

comune di montevarchi - provincia di arezzo

avvio del procedimento Del.C.C. n.55 del 15.05.2008
valutazione iniziale Del.G.C. n.171 del 17.07.2008
valutazione intermedia e rapporto ambientale preliminare Del.C.C. n.47 del 29.05.2009
relazione di sintesi finale - rapporto ambientale Del.G.C. n.251del 29.10.2009
rapporto ambientale - relazione di sintesi non tecnica Del.C.C. n..... del .....
adozione Del.C.C. n..... del .....

variante di adeguamento
alla disciplina urbanistica regionale e ai contenuti dell'art.55 co.6 della L.R.1/2005

RELAZIONE IDRAULICA - ALLEGATO 2 - VOLUME I

PIANO STRUTTURALE

dicembre 2009



comune di montevarchi - provincia di arezzo

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Ufficio di piano	*Gabriele Banchetti*
	Stefano Borchi
Indagini geologiche ed idrauliche	*Claudia Lombardi*
	Roberto Nevini
	Michele Sani

RELAZIONE IDRAULICA - ALLEGATO 2 - VOLUME I

PIANO STRUTTURALE

dicembre 2009

verifiche idrauliche stato attuale

volume I

borro del Quercio
borro dello Spedaluzzo
borro del Giglio

volume II

borro della Sabina
borro del Caspri
borro della Dogana
borro dell'Ornaccio

volume III

borro del Valdilago
torrente Caposelvi (loc. Mercatale)
torrente Caposelvi
torrente Ambra

verifiche idrauliche stato attuale - volume I

- borro del Quercio
- borro dello Spedaluzzo
- borro del Giglio

borro del Quercio

verifiche con Tpioggia critico per il Borro del Quercio

- moto vario

  Tr=200, 100, 30 e 20 anni

  profilo

  livelli idrici nelle sezioni di verifica

  tabella di output del software Hec-ras 4.0

  livelli e portate in ingresso alle aree di accumulo

verifiche con Tpioggia critico per il Fiume Arno

- moto vario

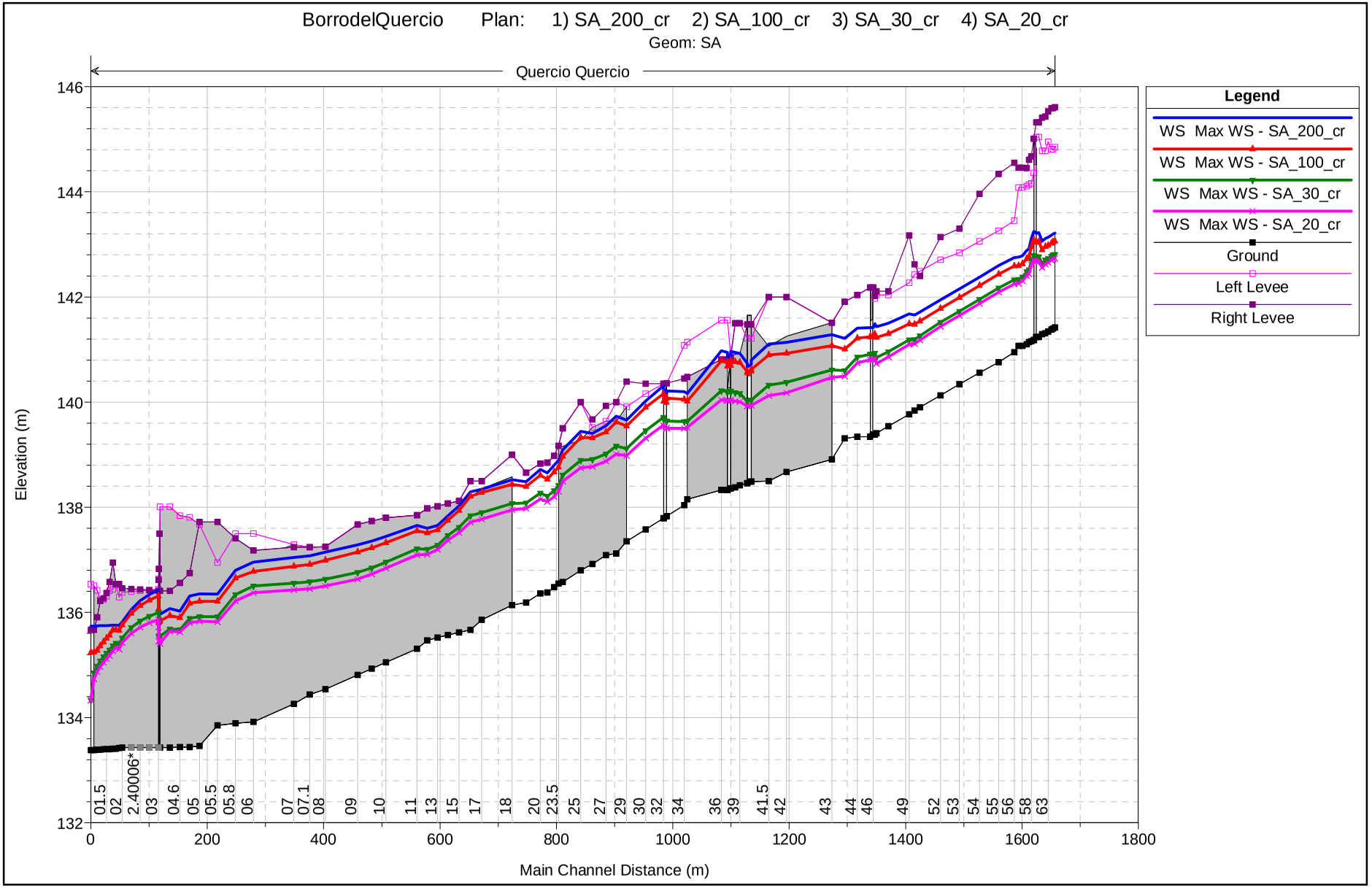
  Tr=200, 100, 30 e 20 anni

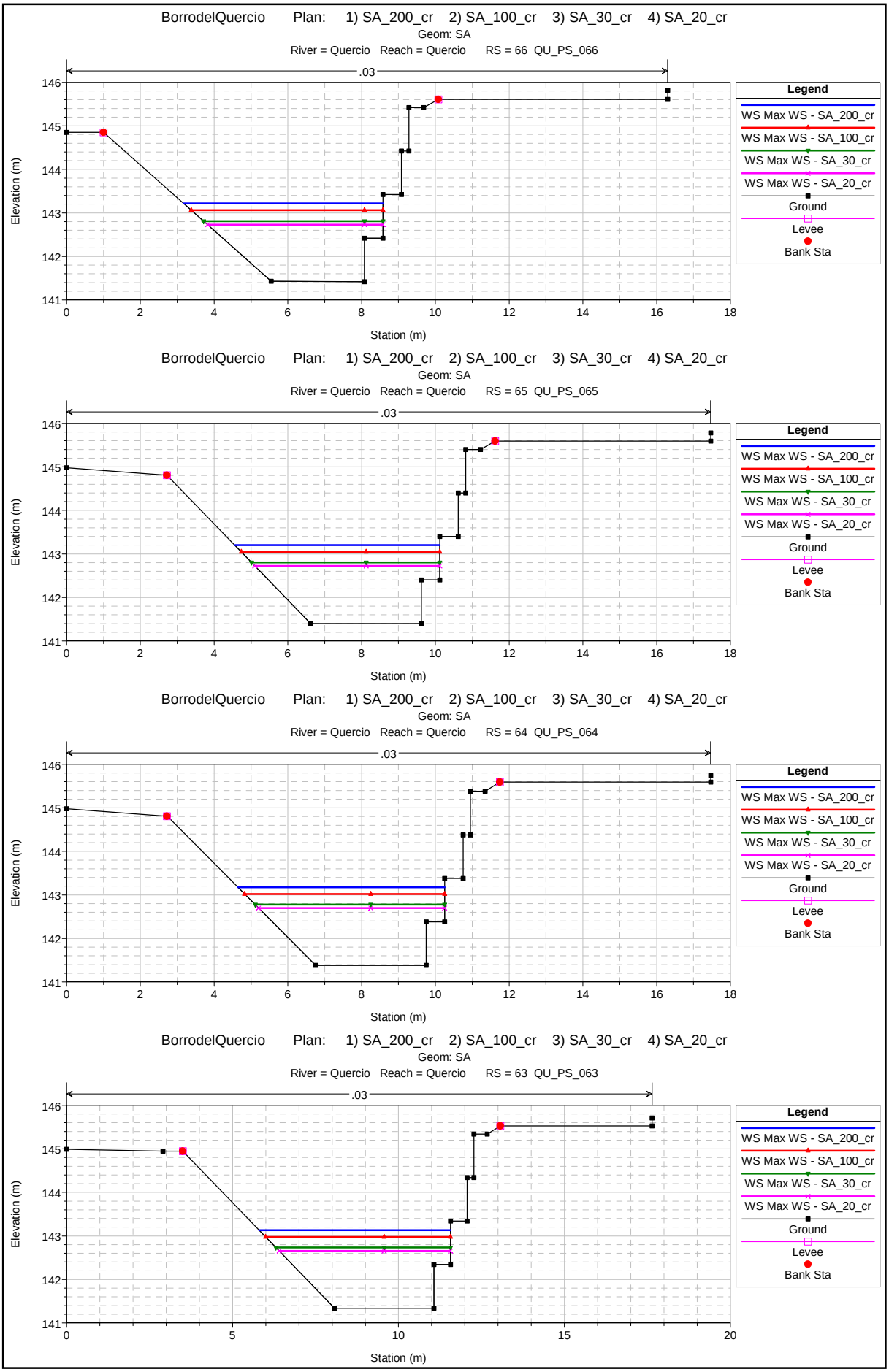
  profilo

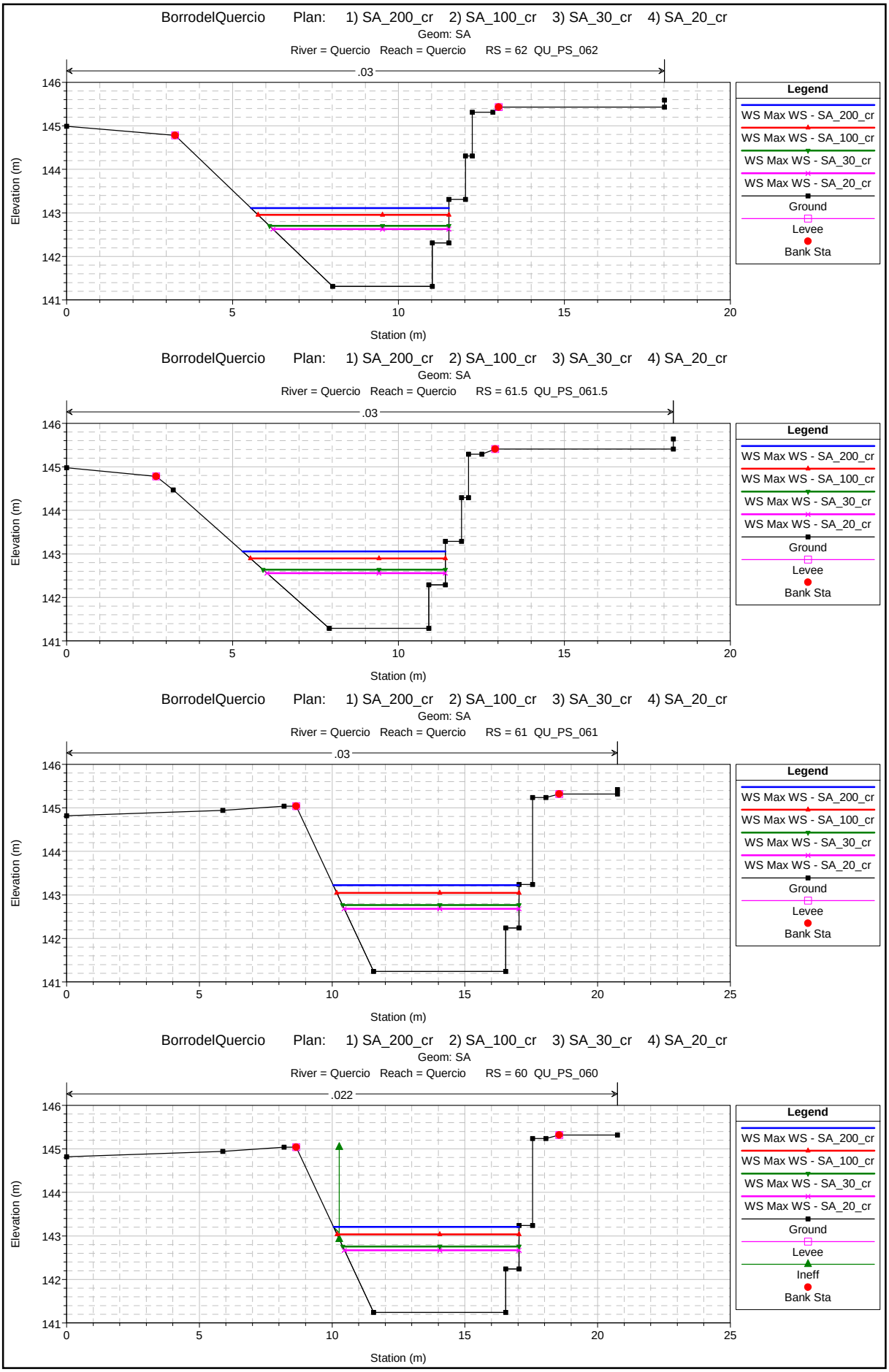
  livelli idrici nelle sezioni di verifica

  tabella di output del software Hec-ras 4.0

  livelli e portate in ingresso alle aree di accumulo


BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
Quercio Quercio
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
146
144
142
140
138
136
134
132
0
200
400
600
800
1000
1200
1400
1600
1800
01.5
02
2.40006*
03
04.6
05
05.5
05.8
06
07
07.1
08
09
10
11
13
15
17
18
20
23.5
25
27
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53
54
55
56
58
63

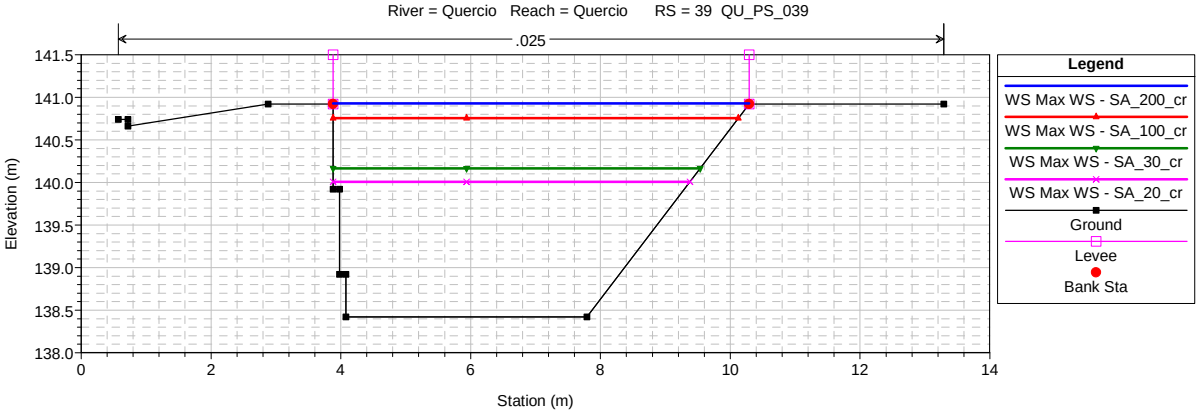

BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 66 QU_PS_066
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 65 QU_PS_065
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 64 QU_PS_064
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 63 QU_PS_063
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 62 QU_PS_062
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 61.5 QU_PS_061.5
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 61 QU_PS_061
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 60 QU_PS_060
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta

BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

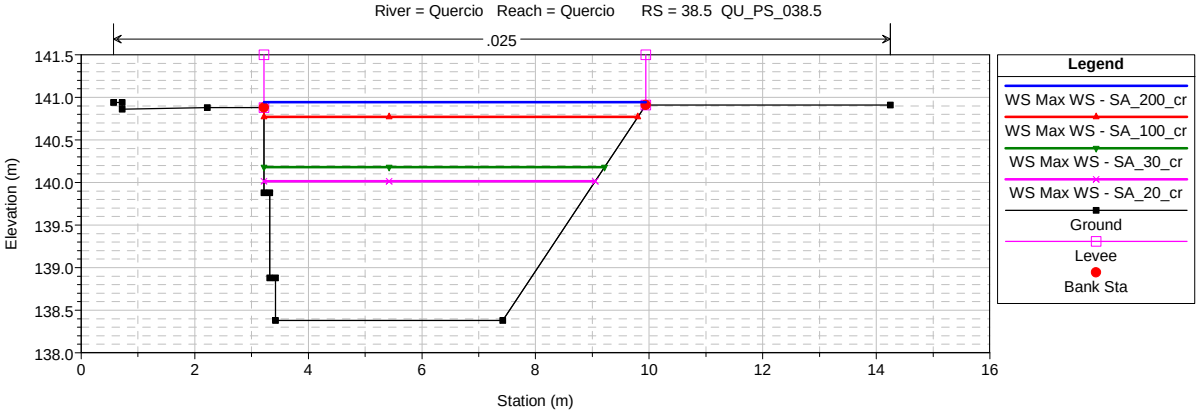
River = Quercio Reach = Quercio RS = 39 QU_PS_039



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

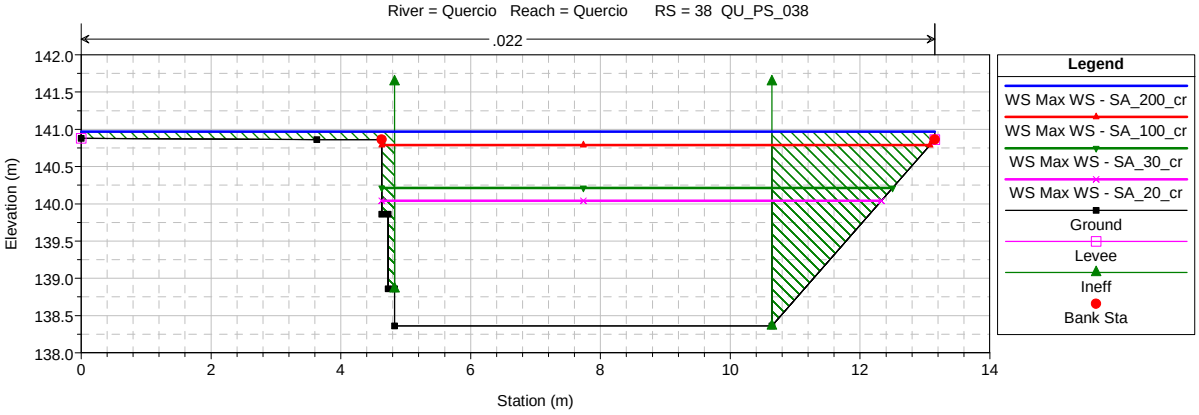
River = Quercio Reach = Quercio RS = 38.5 QU_PS_038.5



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

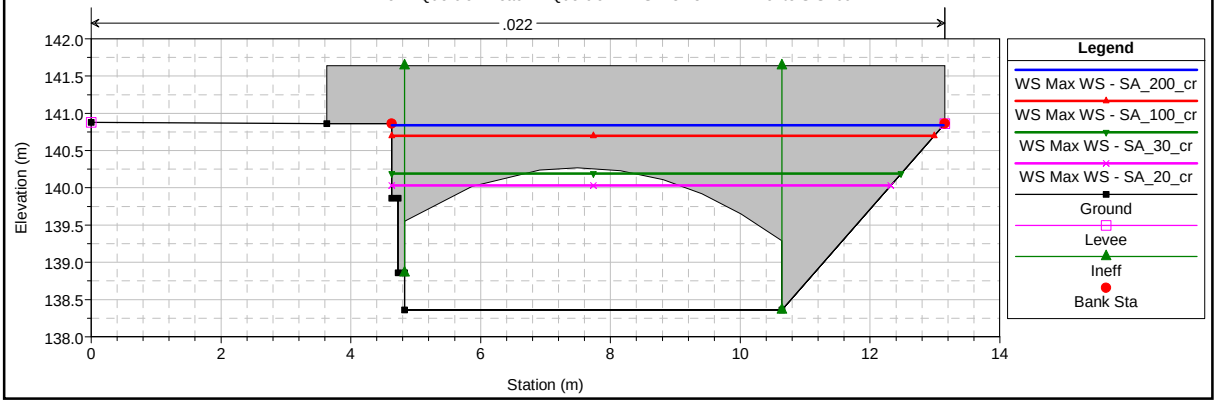
River = Quercio Reach = Quercio RS = 38 QU_PS_038



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

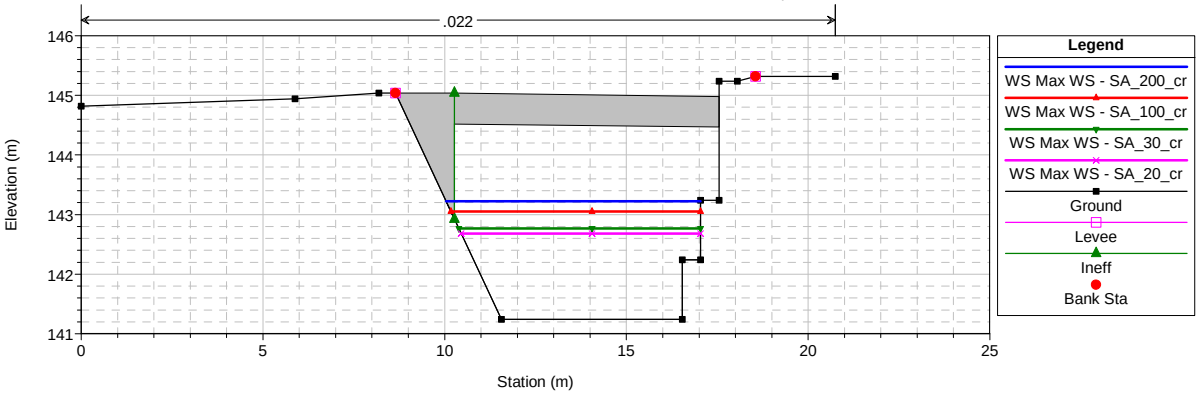
River = Quercio Reach = Quercio RS = 37.5 BR Ponte S.S. 69



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

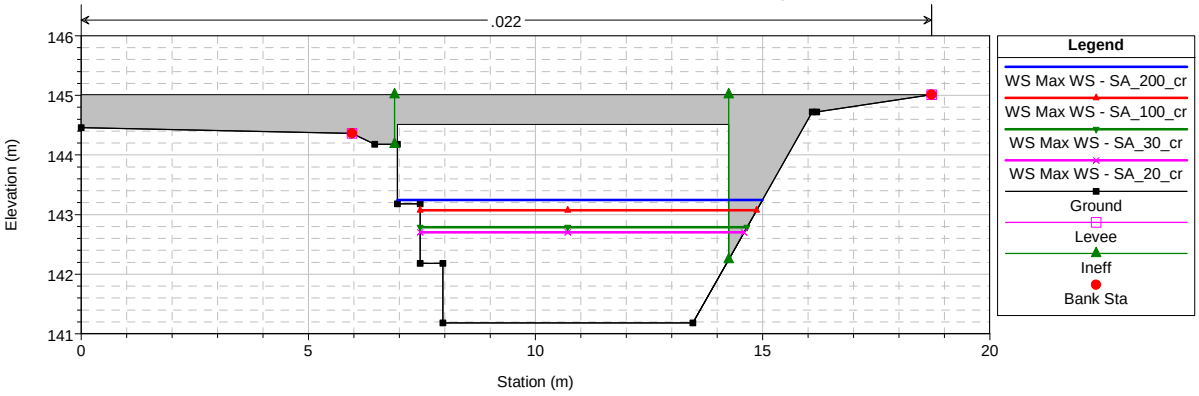
River = Quercio Reach = Quercio RS = 59.5 BR Ponte decompressore metano



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

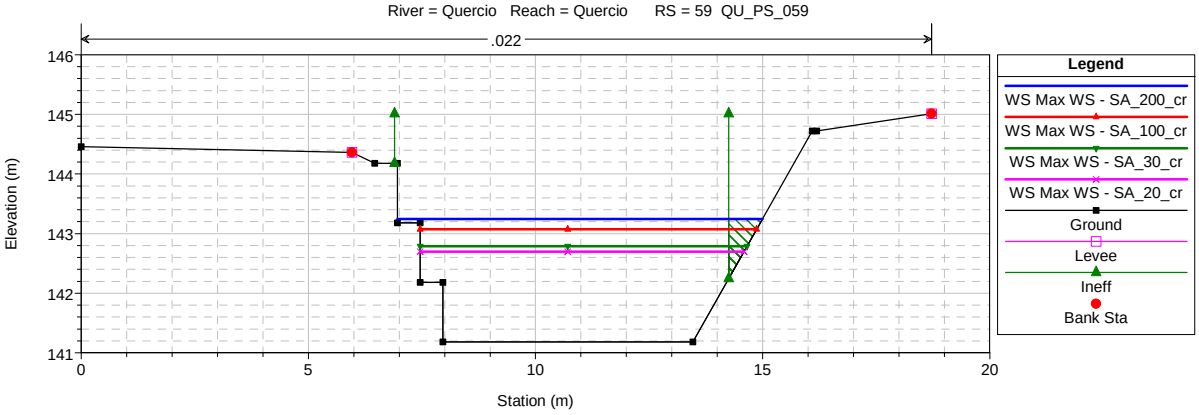
River = Quercio Reach = Quercio RS = 59.5 BR Ponte decompressore metano



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

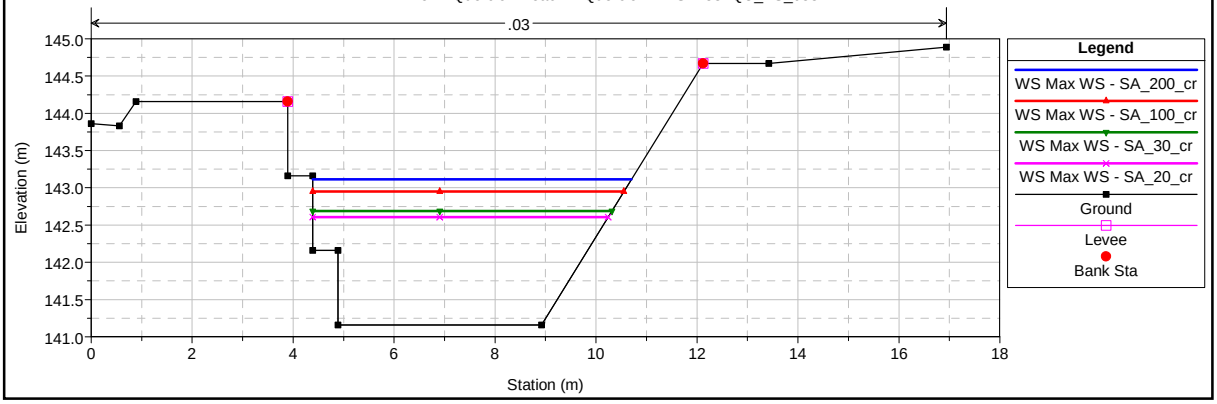
River = Quercio Reach = Quercio RS = 59 QU_PS_059

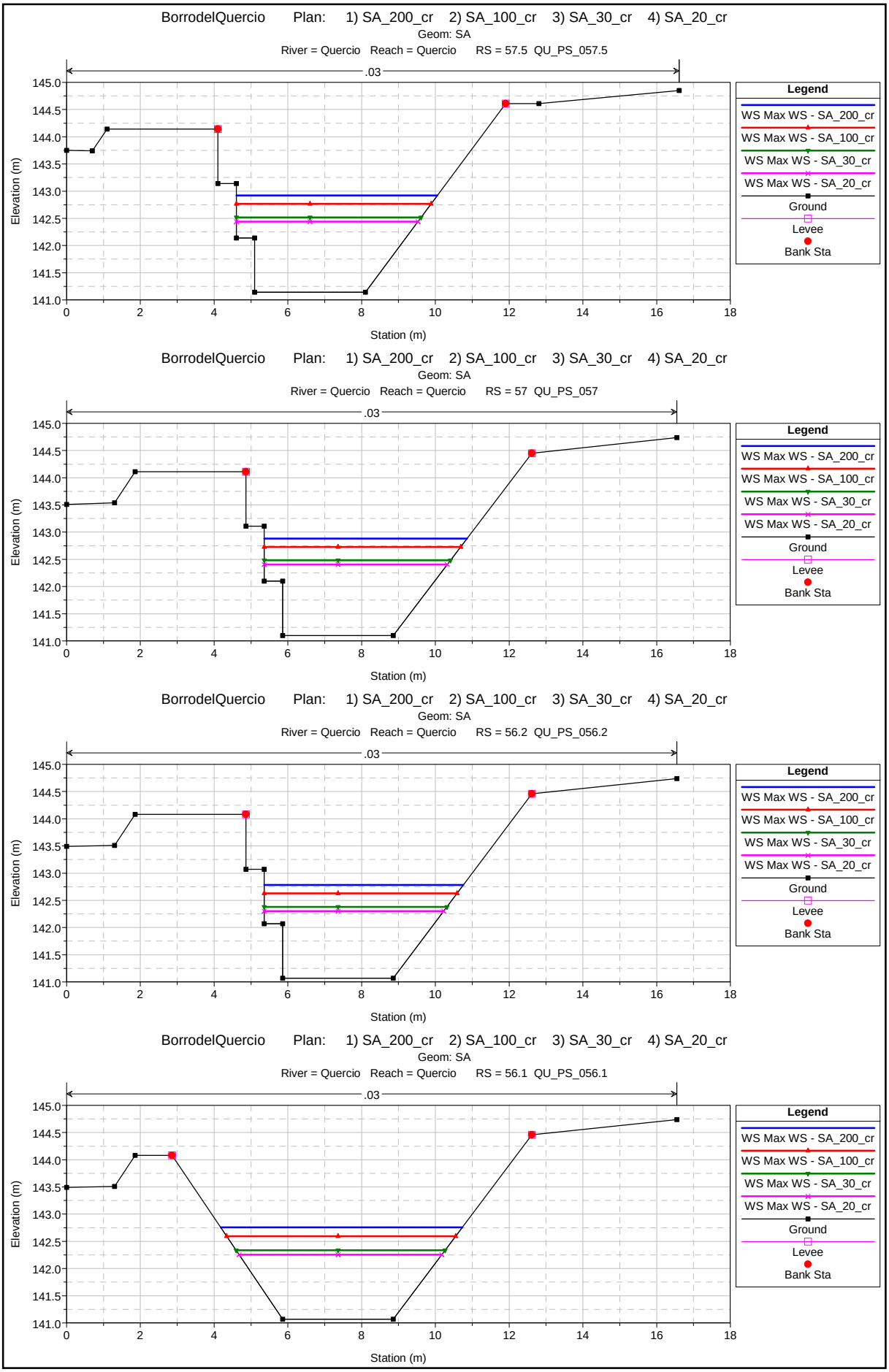


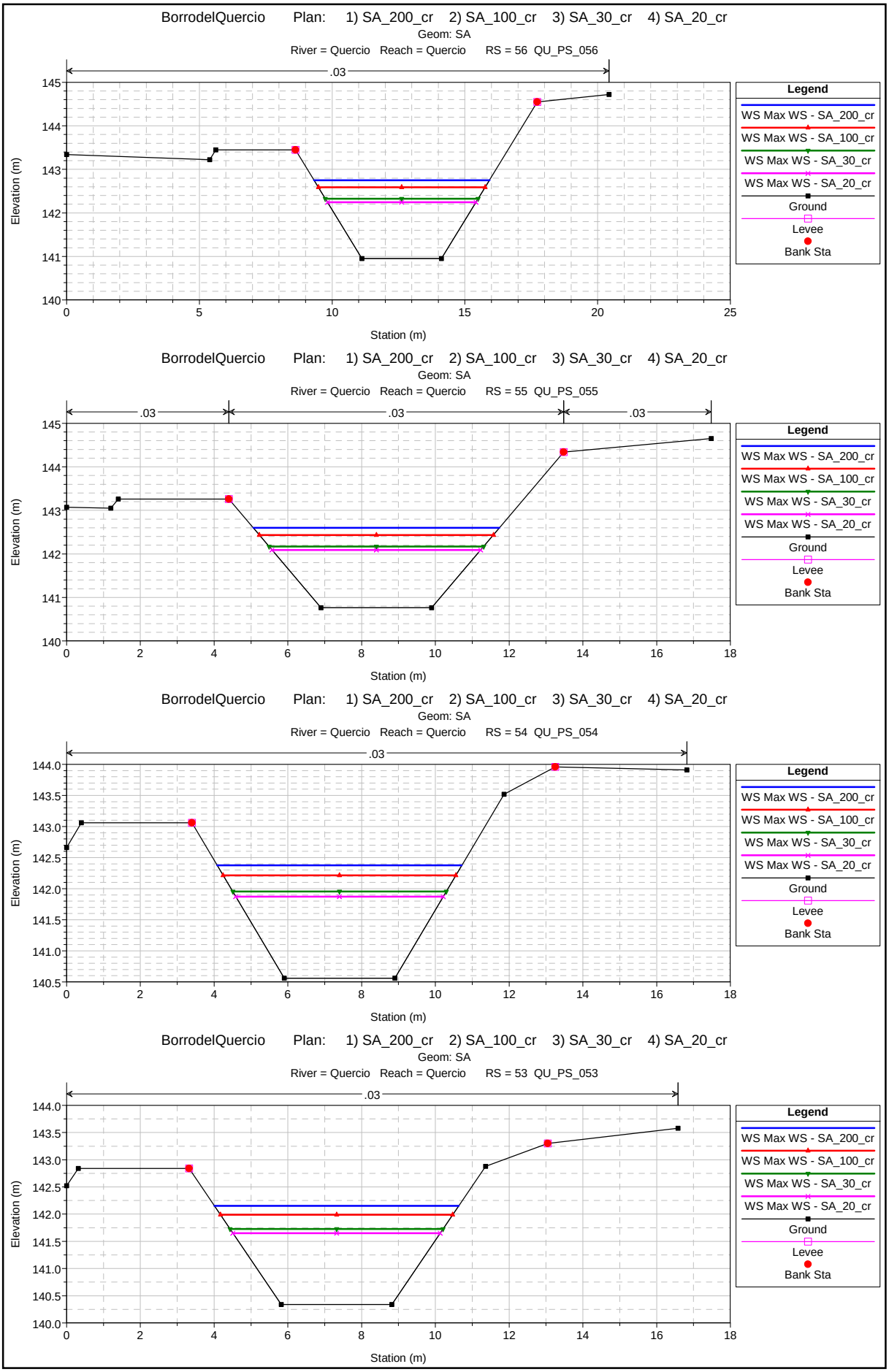
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

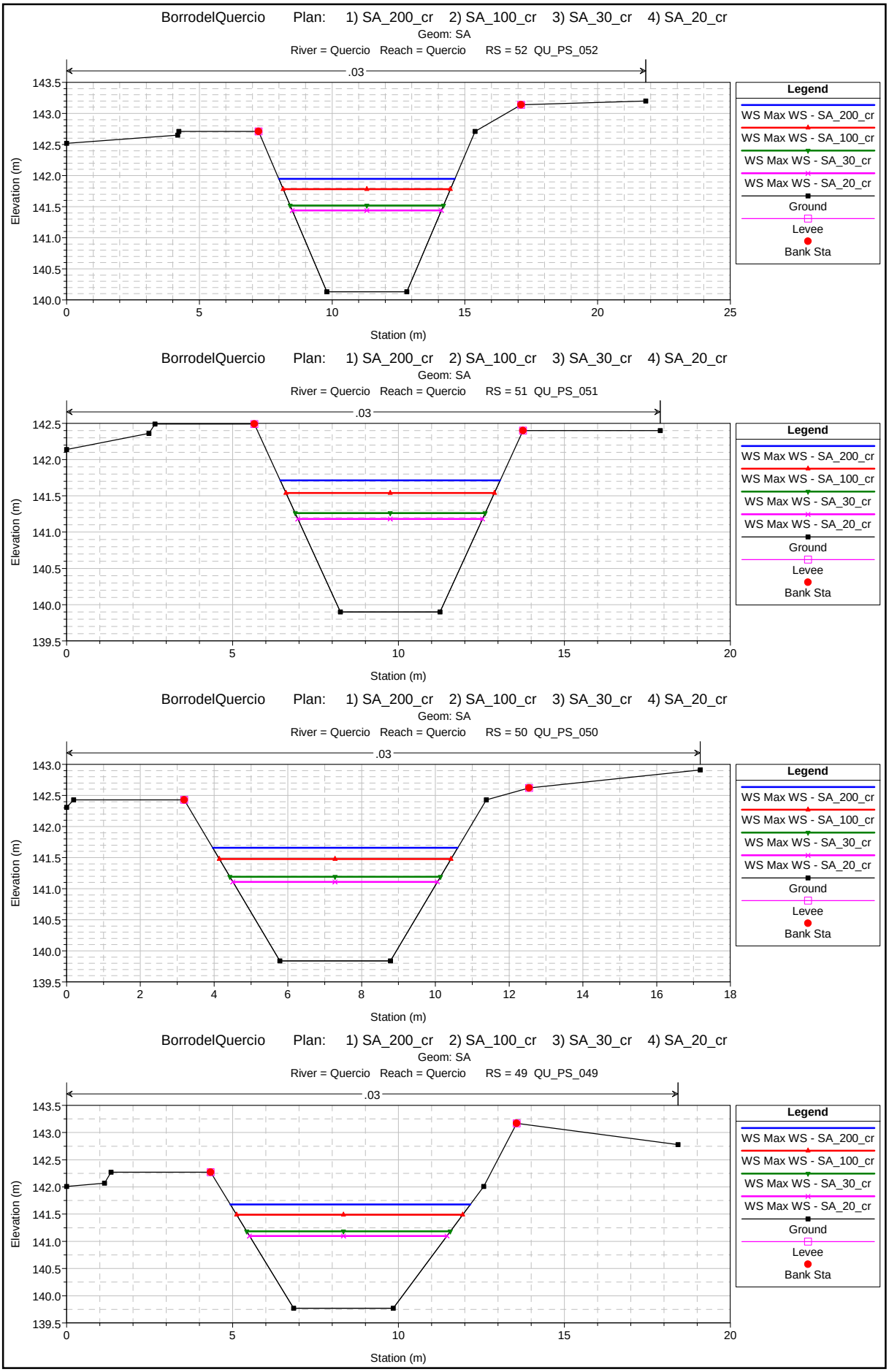
Geom: SA

River = Quercio Reach = Quercio RS = 58 QU_PS_058




BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 57.5 QU_PS_057.5
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 57 QU_PS_057
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 56.2 QU_PS_056.2
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 56.1 QU_PS_056.1
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

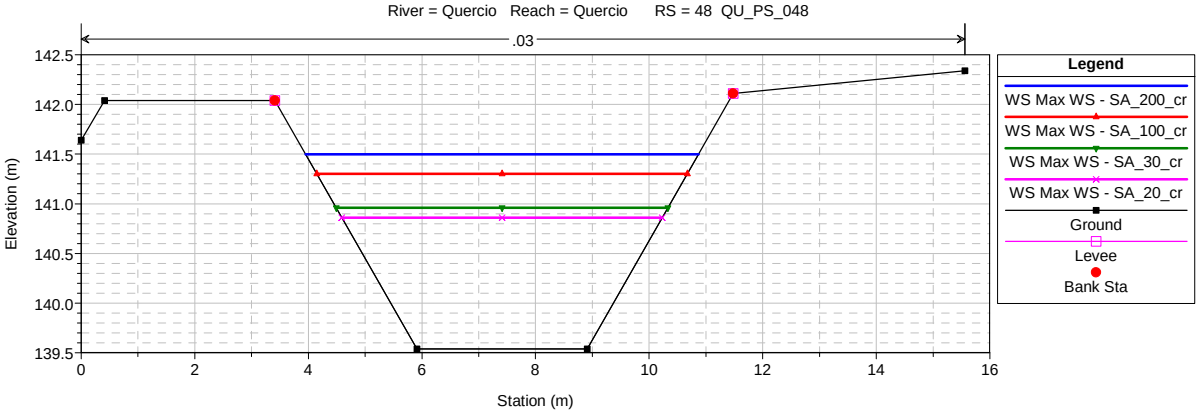

BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 56 QU_PS_056
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 55 QU_PS_055
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 54 QU_PS_054
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 53 QU_PS_053
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 52 QU_PS_052
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 51 QU_PS_051
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 50 QU_PS_050
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 49 QU_PS_049
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

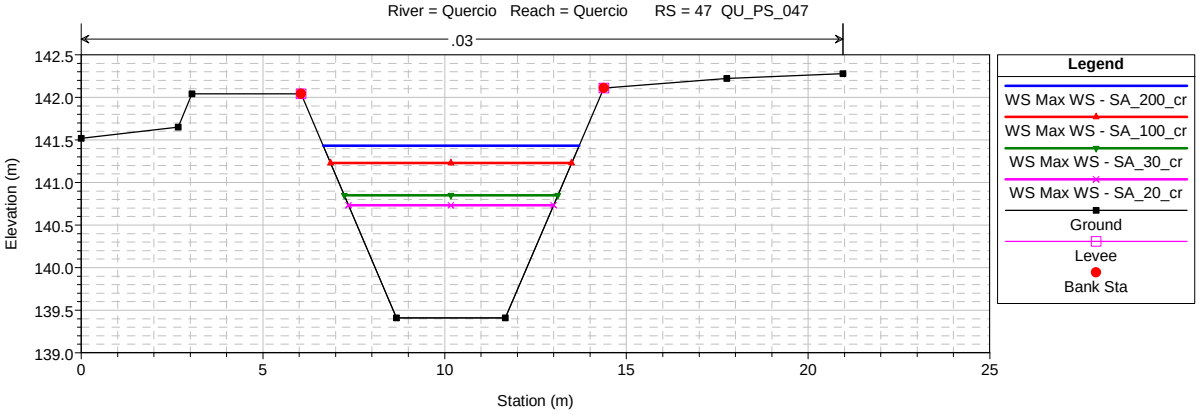
River = Quercio Reach = Quercio RS = 48 QU_PS_048



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

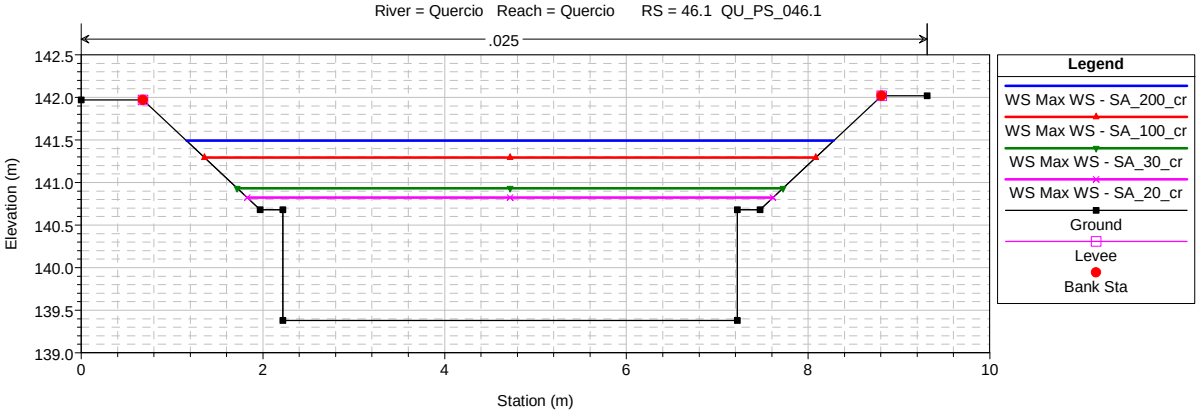
River = Quercio Reach = Quercio RS = 47 QU_PS_047



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

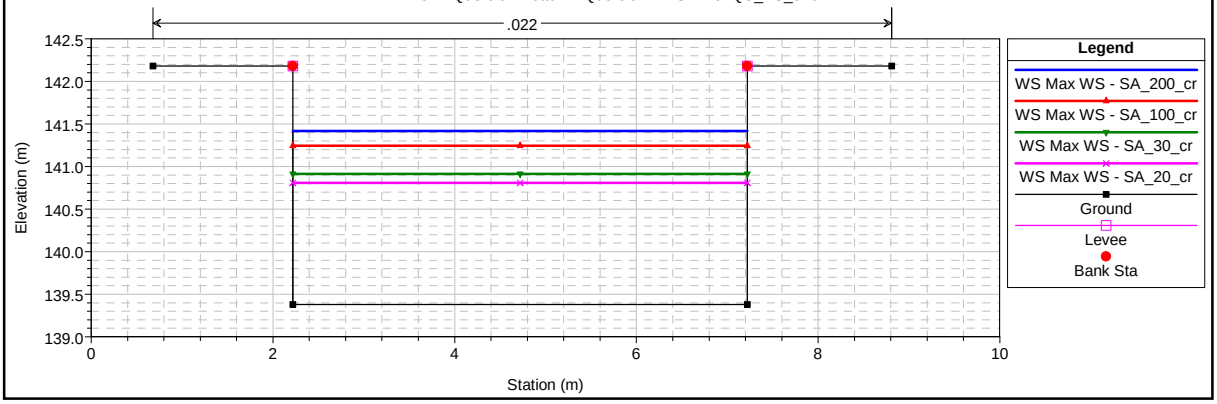
River = Quercio Reach = Quercio RS = 46.1 QU_PS_046.1



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

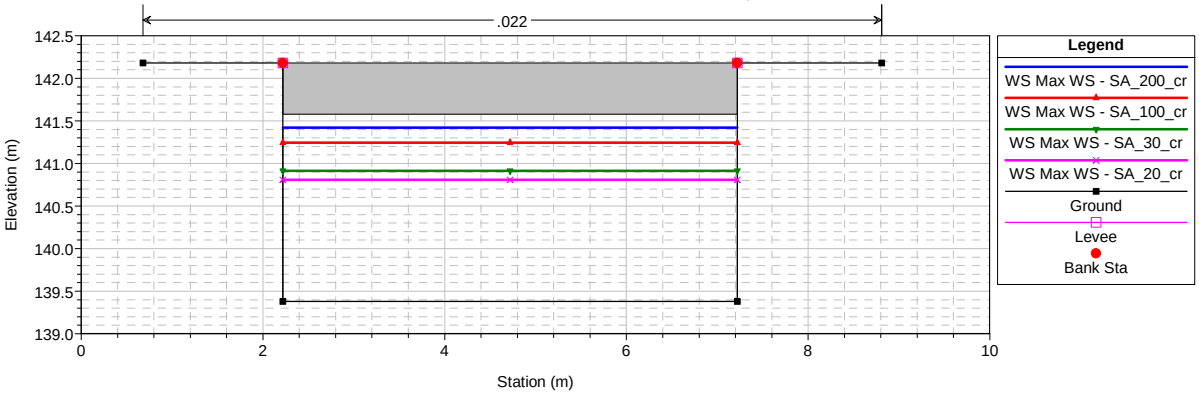
River = Quercio Reach = Quercio RS = 46 QU_PS_046



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

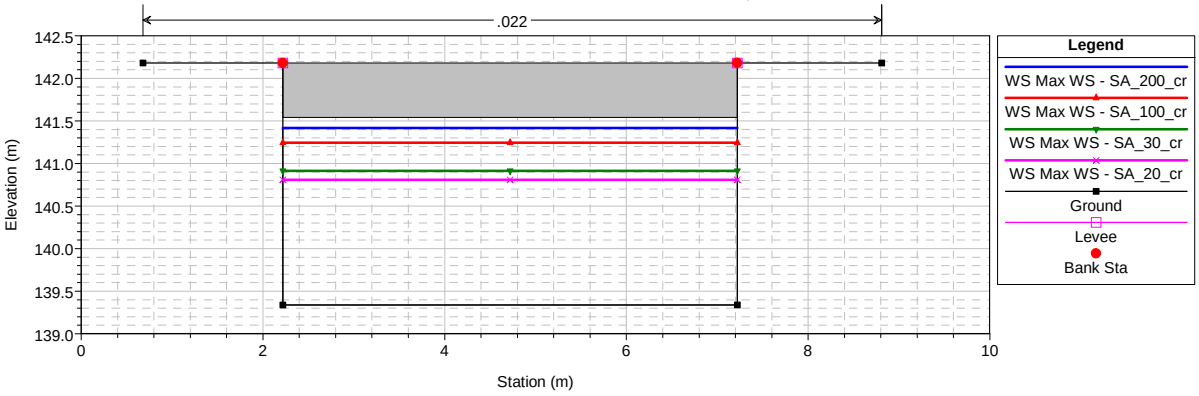
River = Quercio Reach = Quercio RS = 45.5 BR Ponte per Monsorbi-Pettini



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

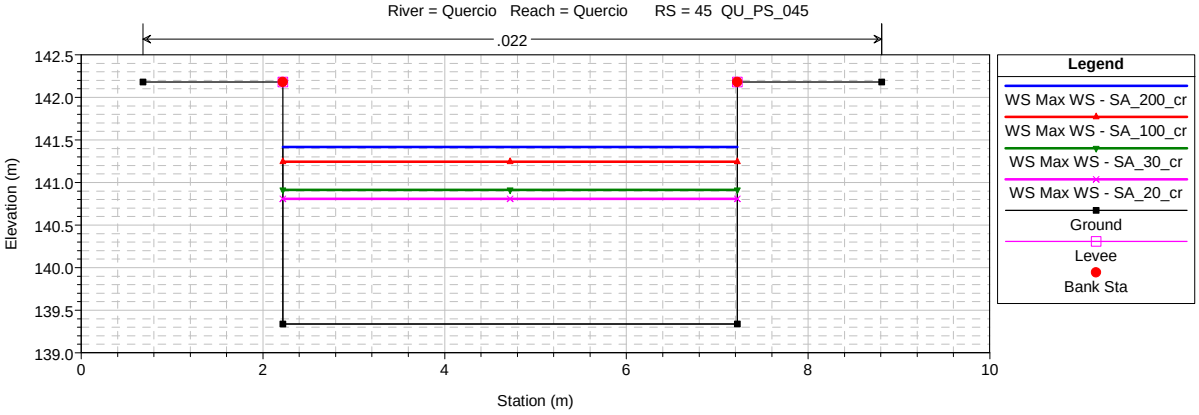
River = Quercio Reach = Quercio RS = 45.5 BR Ponte per Monsorbi-Pettini



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

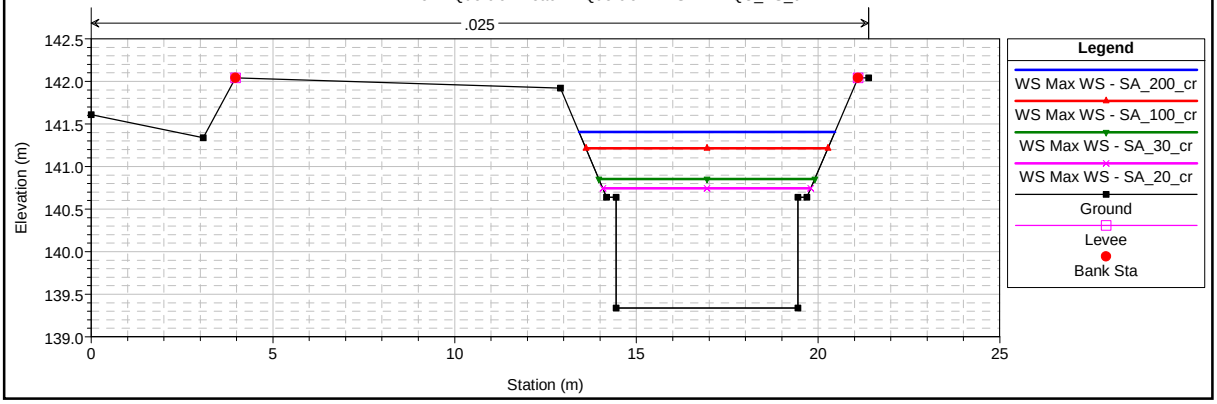
River = Quercio Reach = Quercio RS = 45 QU_PS_045

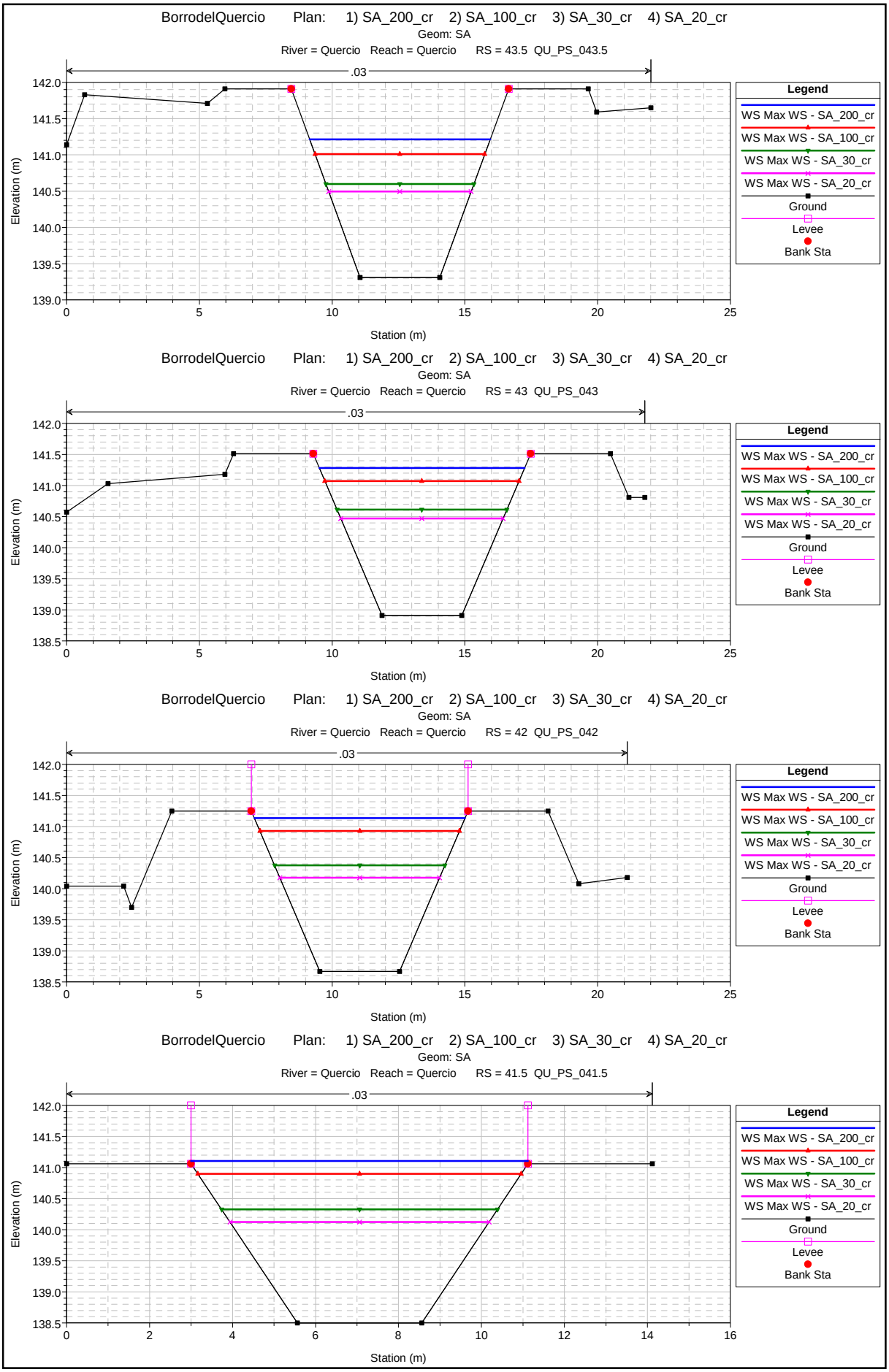


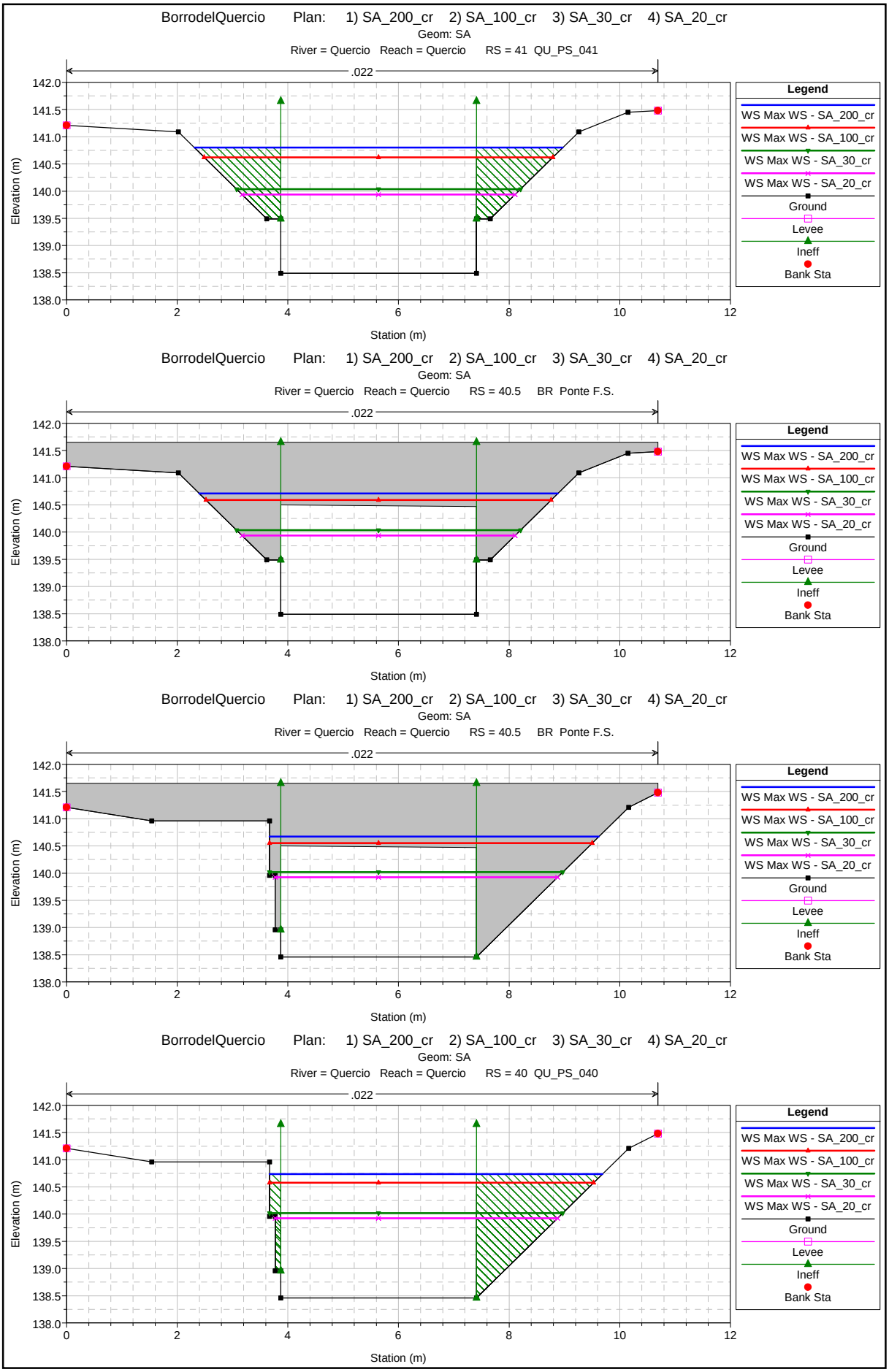
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

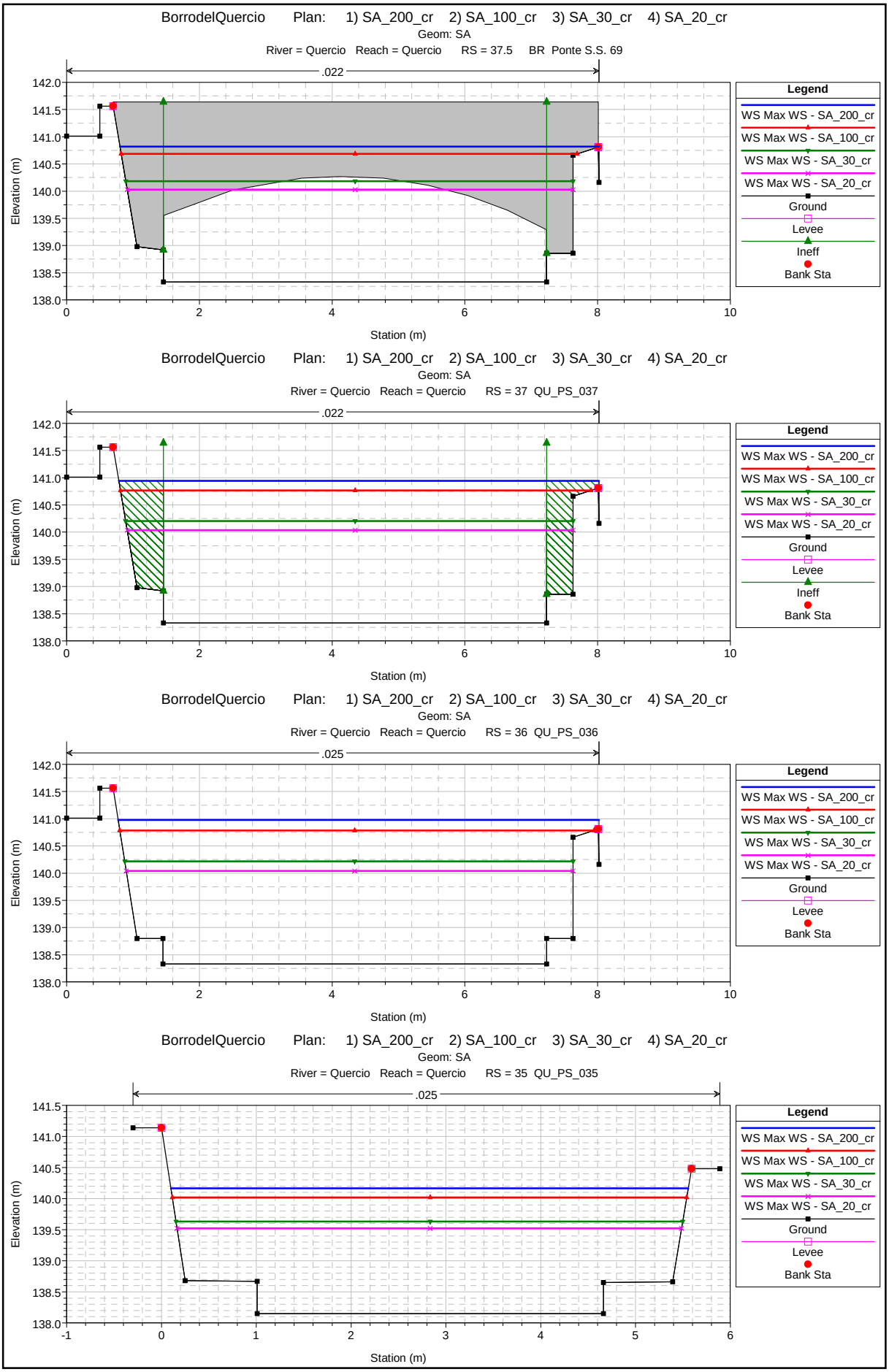
Geom: SA

River = Quercio Reach = Quercio RS = 44 QU_PS_044




BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 43.5 QU_PS_043.5
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 43 QU_PS_043
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 42 QU_PS_042
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 41.5 QU_PS_041.5
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

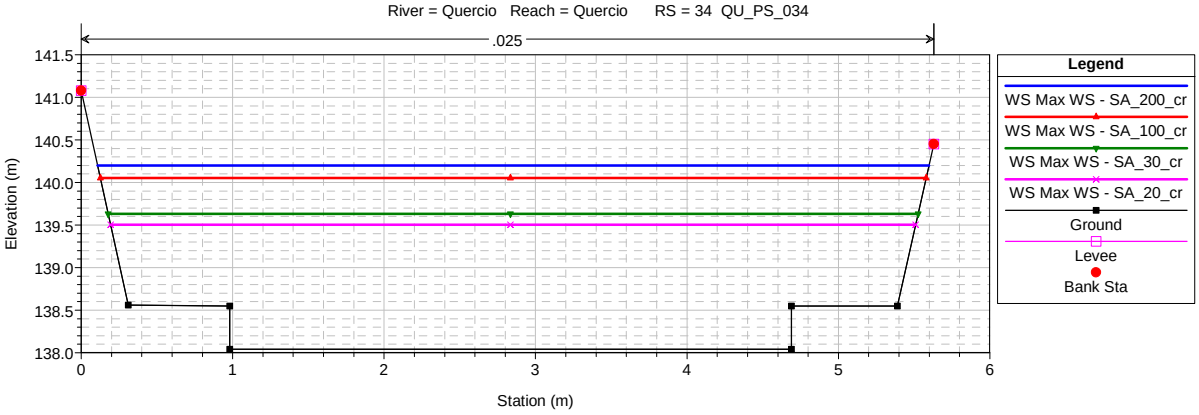

BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 41 QU_PS_041
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 40.5 BR Ponte F.S.
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 40.5 BR Ponte F.S.
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 40 QU_PS_040
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta


BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 37.5 BR Ponte S.S. 69
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 37 QU_PS_037
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 36 QU_PS_036
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 35 QU_PS_035
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

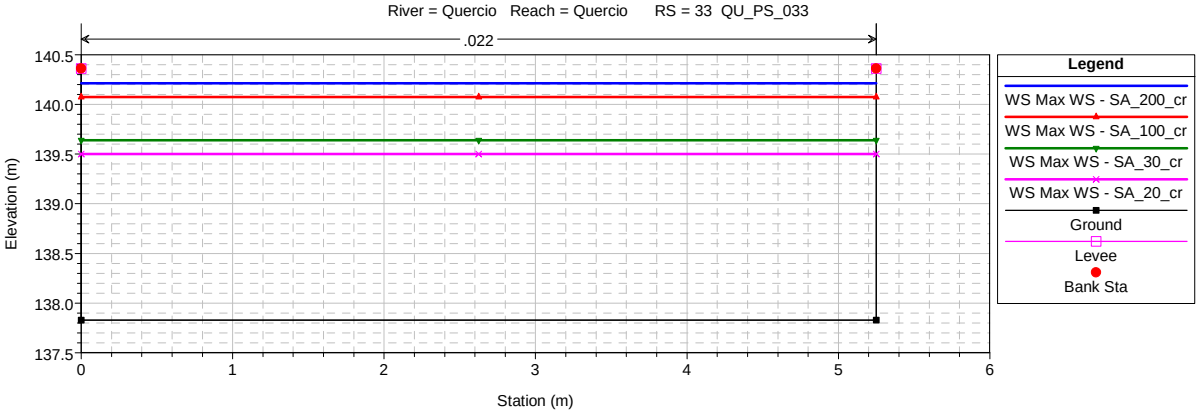
River = Quercio Reach = Quercio RS = 34 QU_PS_034



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

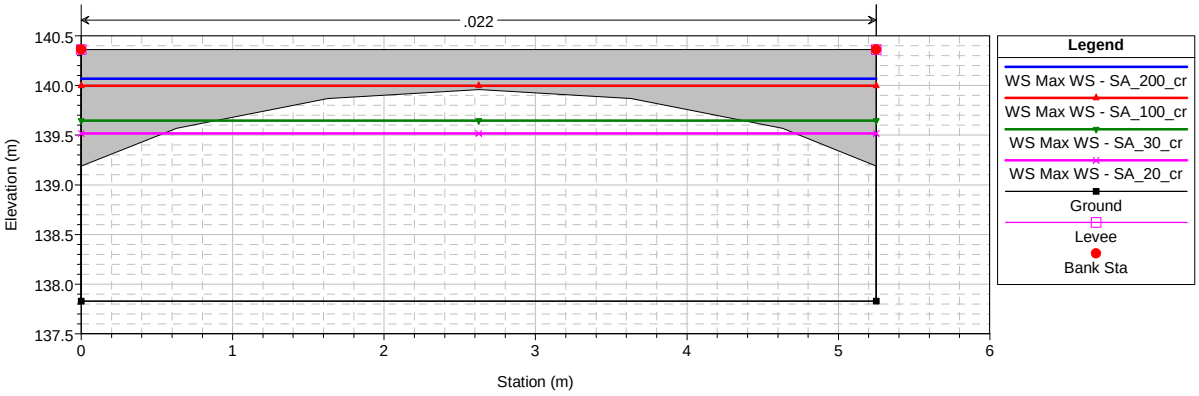
River = Quercio Reach = Quercio RS = 33 QU_PS_033



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

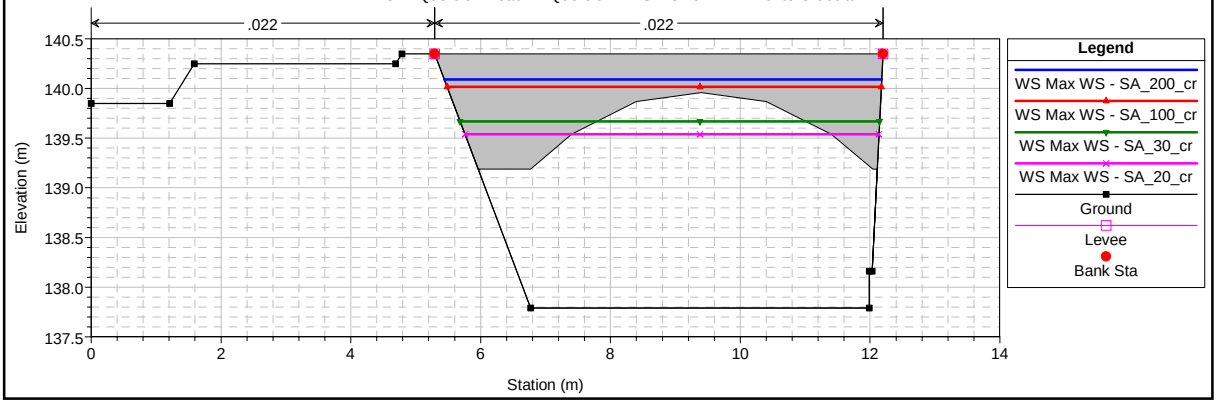
River = Quercio Reach = Quercio RS = 32.5 BR Ponte Gruccia



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

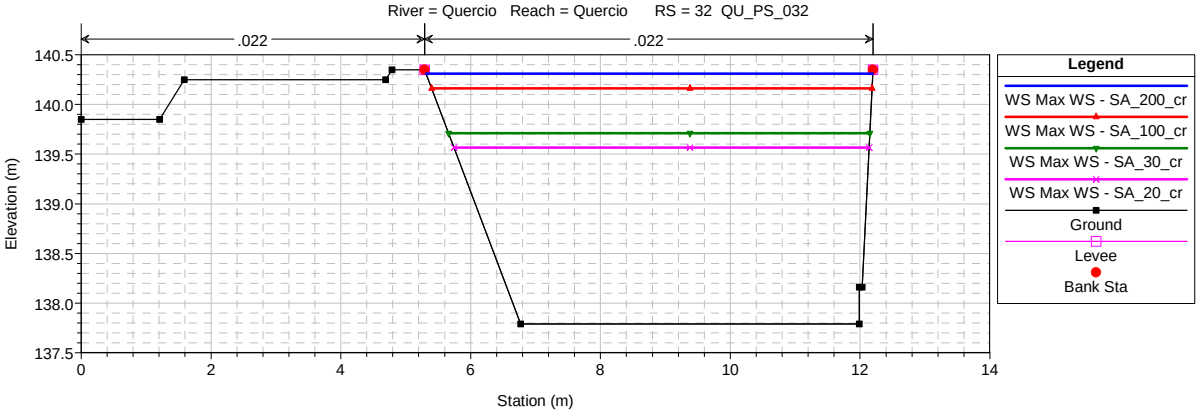
River = Quercio Reach = Quercio RS = 32.5 BR Ponte Gruccia



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

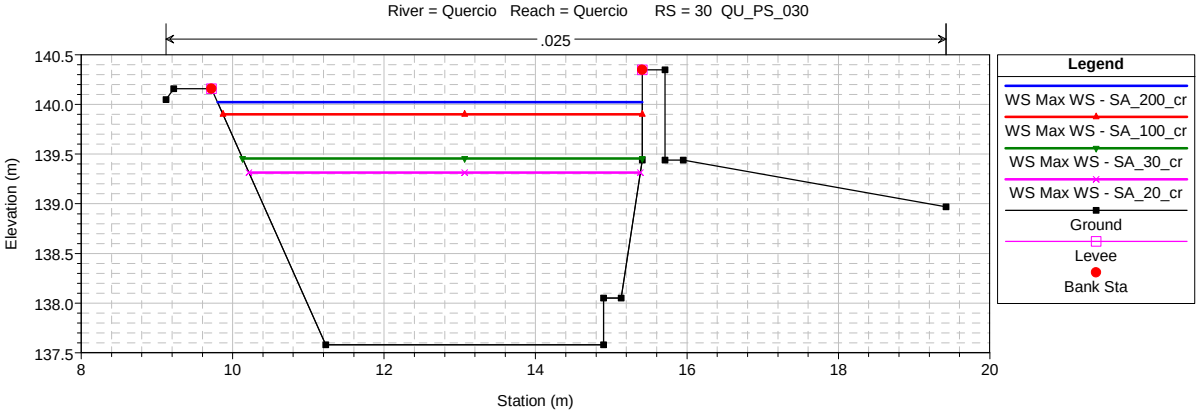
River = Quercio Reach = Quercio RS = 32 QU_PS_032



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

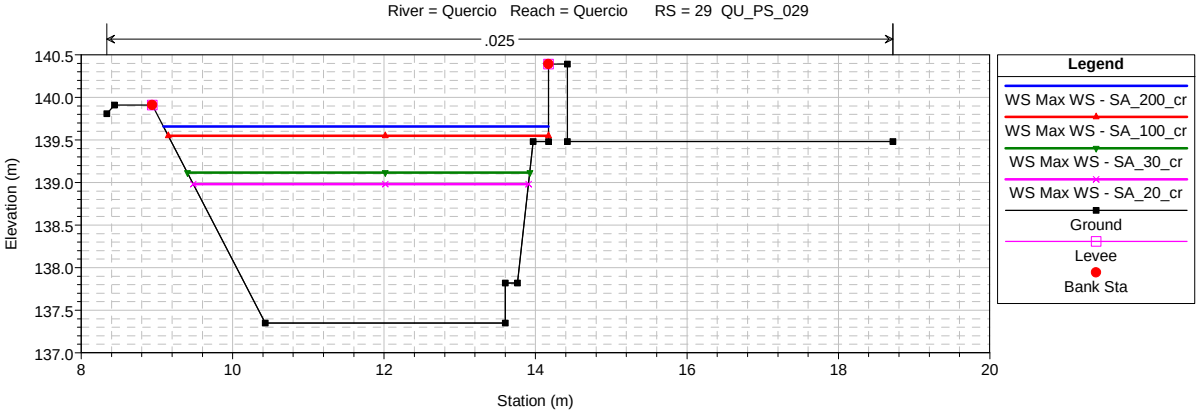
River = Quercio Reach = Quercio RS = 30 QU_PS_030



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

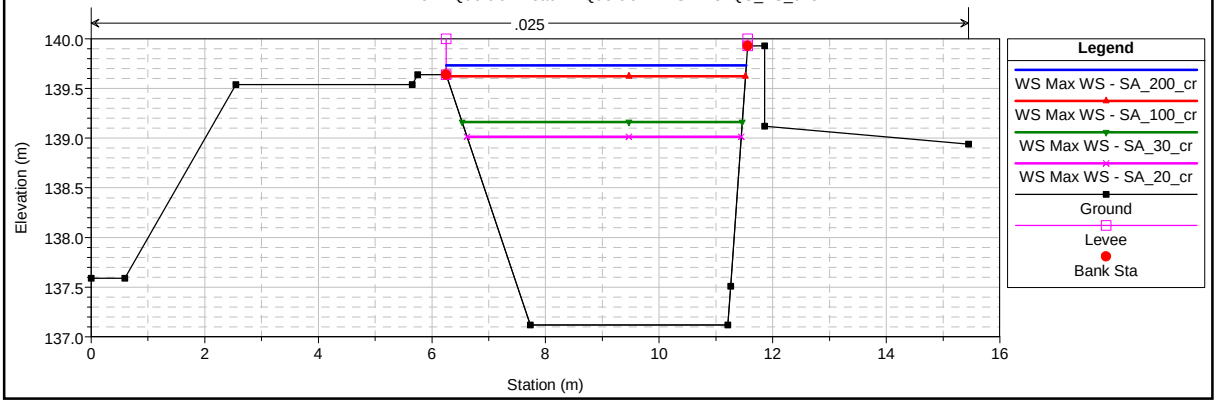
River = Quercio Reach = Quercio RS = 29 QU_PS_029



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

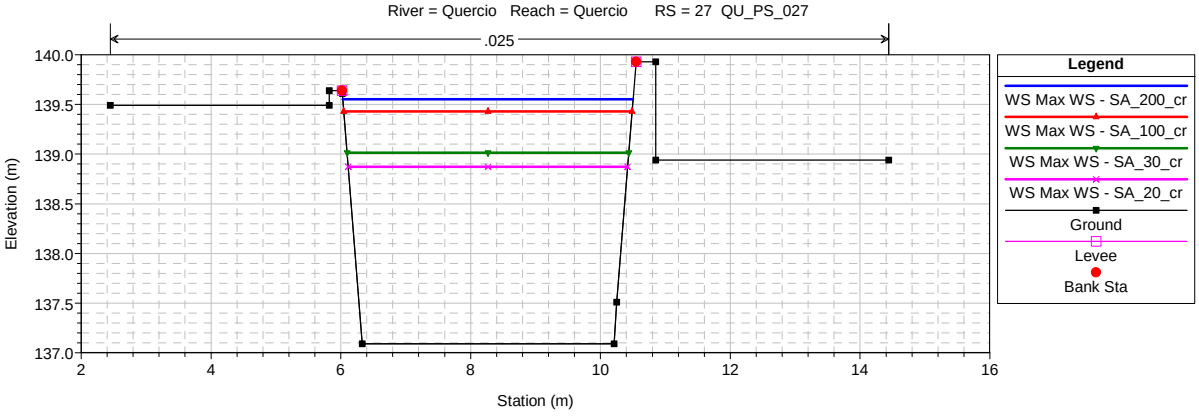
River = Quercio Reach = Quercio RS = 28 QU_PS_028



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

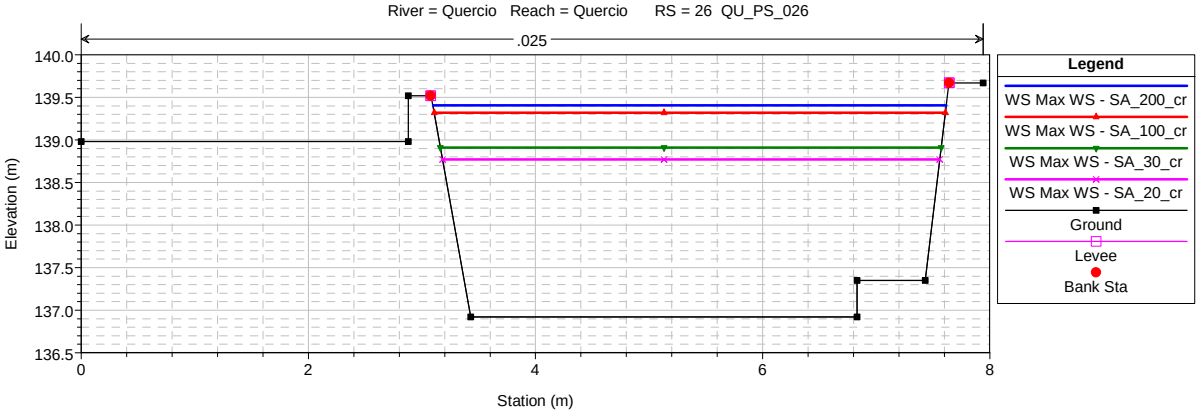
River = Quercio Reach = Quercio RS = 27 QU_PS_027



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

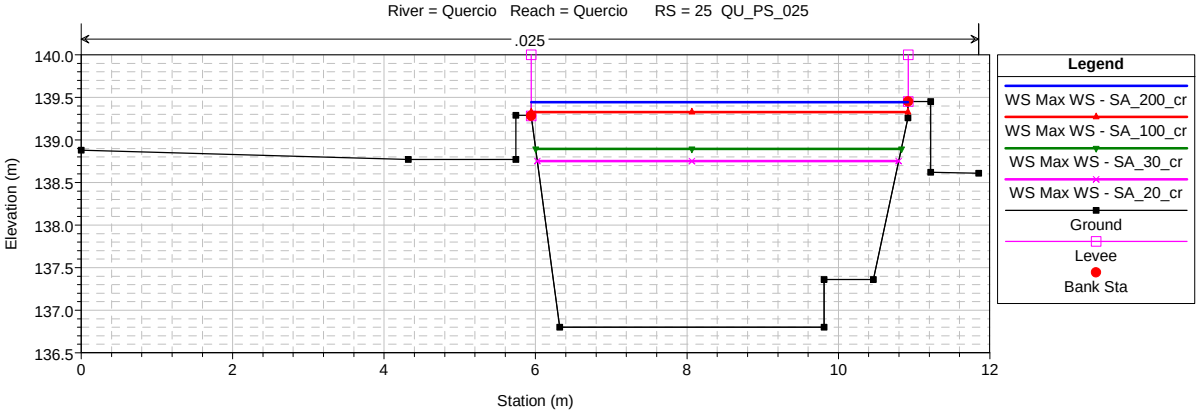
River = Quercio Reach = Quercio RS = 26 QU_PS_026



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

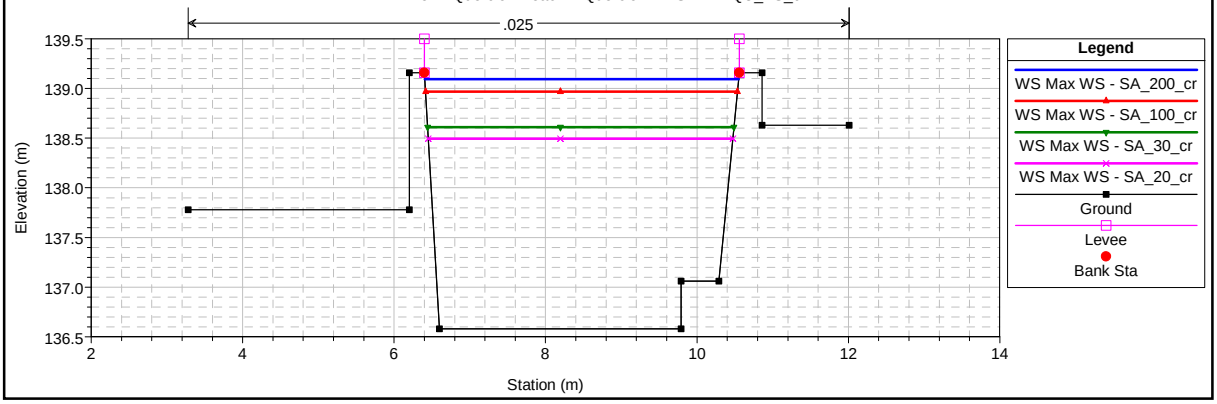
River = Quercio Reach = Quercio RS = 25 QU_PS_025

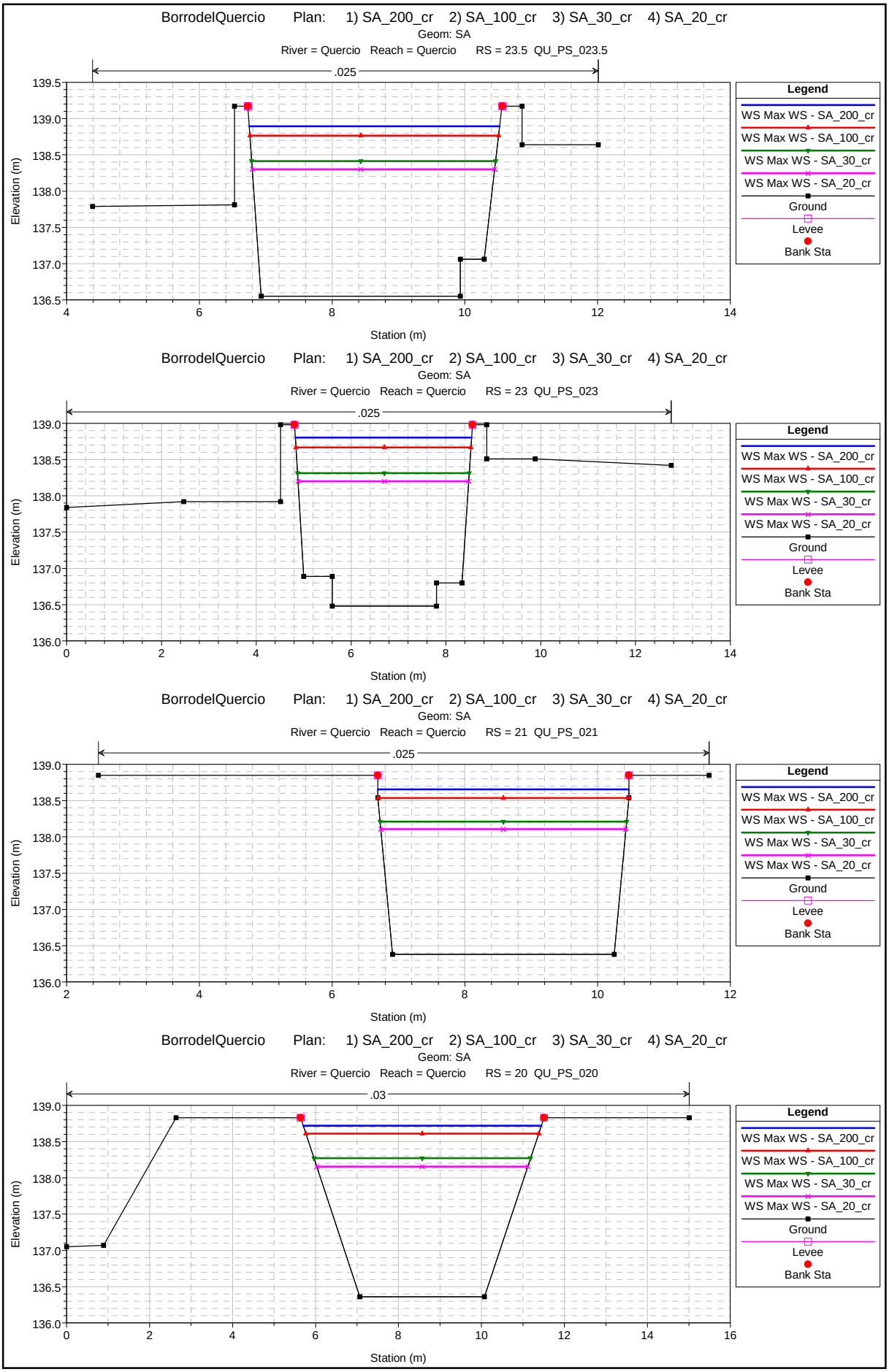


BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

River = Quercio Reach = Quercio RS = 24 QU_PS_024

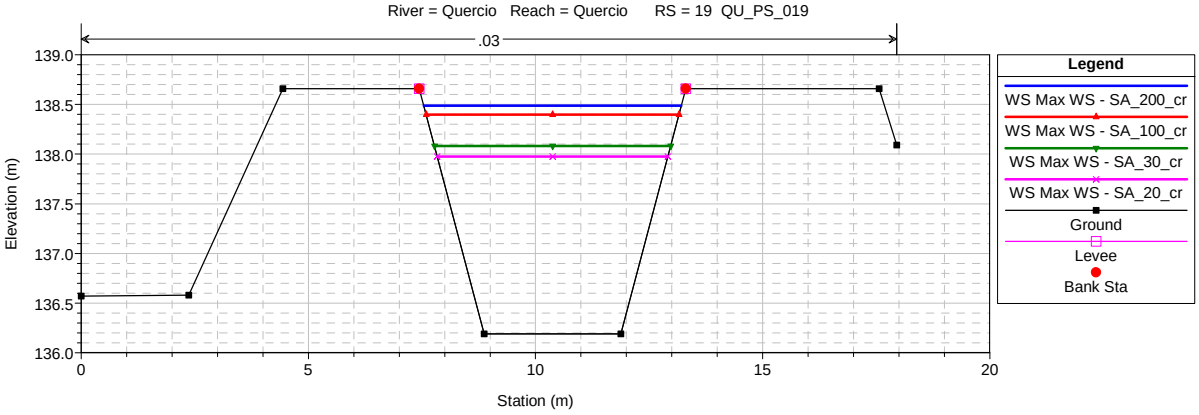



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 23.5 QU_PS_023.5
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 23 QU_PS_023
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 21 QU_PS_021
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 20 QU_PS_020
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

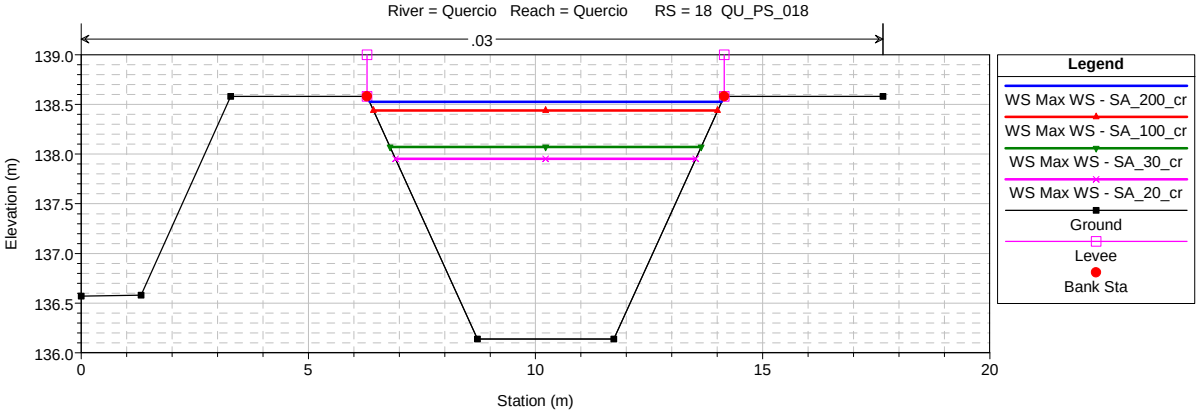
River = Quercio Reach = Quercio RS = 19 QU_PS_019



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

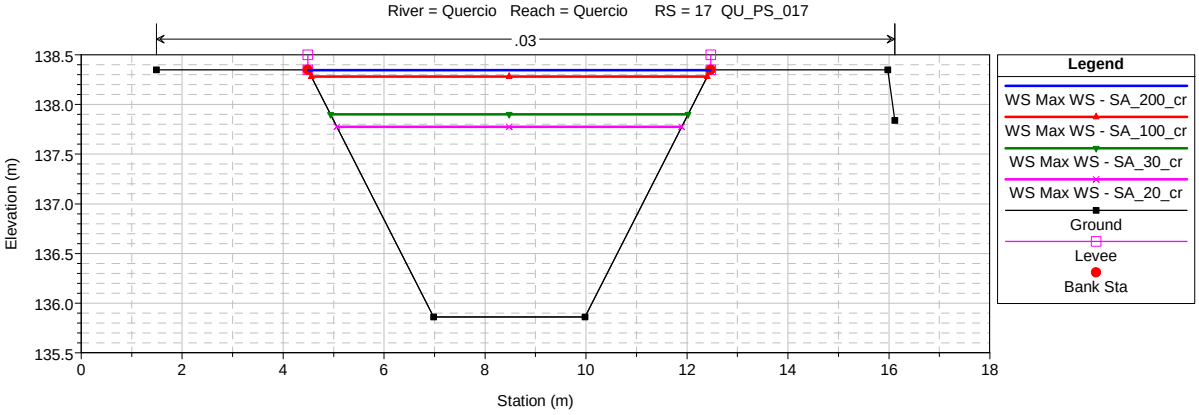
River = Quercio Reach = Quercio RS = 18 QU_PS_018



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

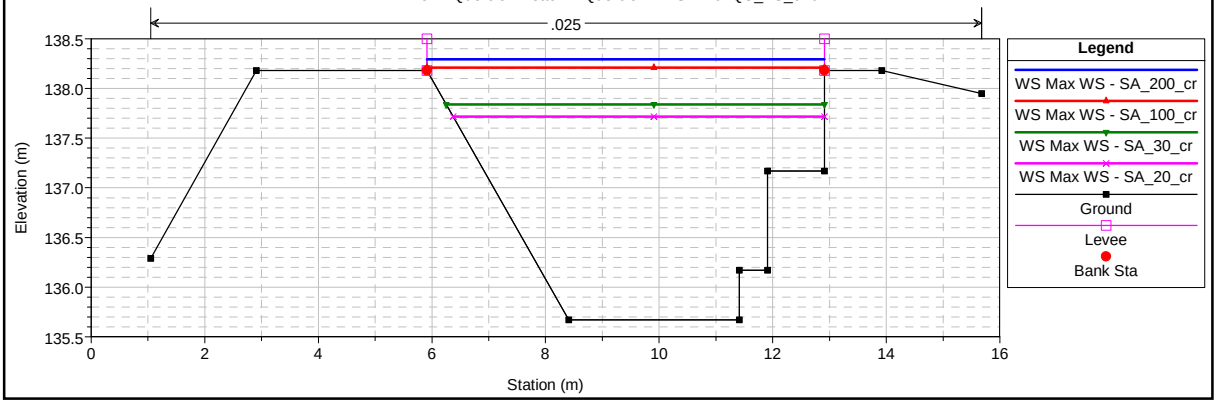
River = Quercio Reach = Quercio RS = 17 QU_PS_017

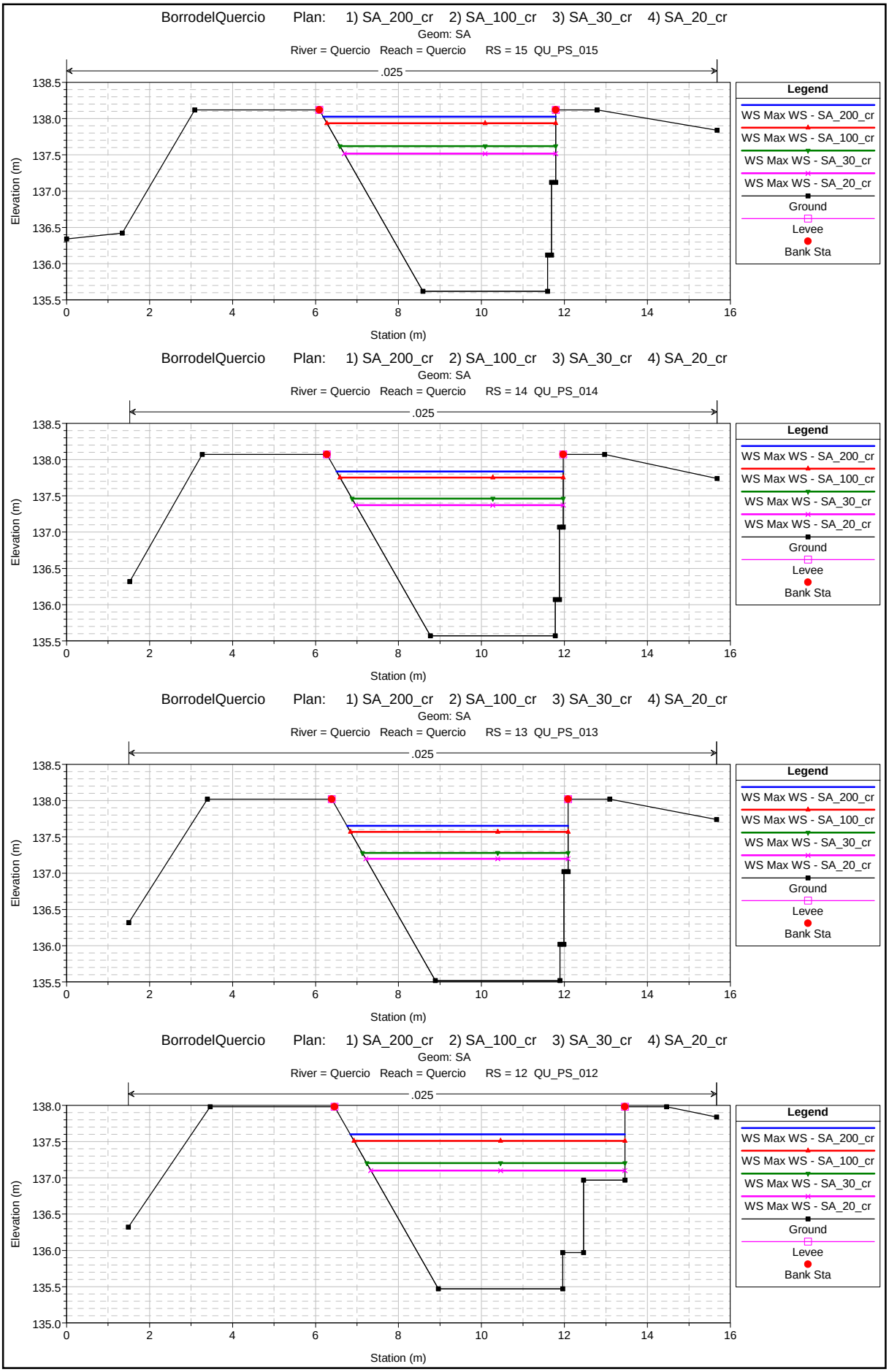


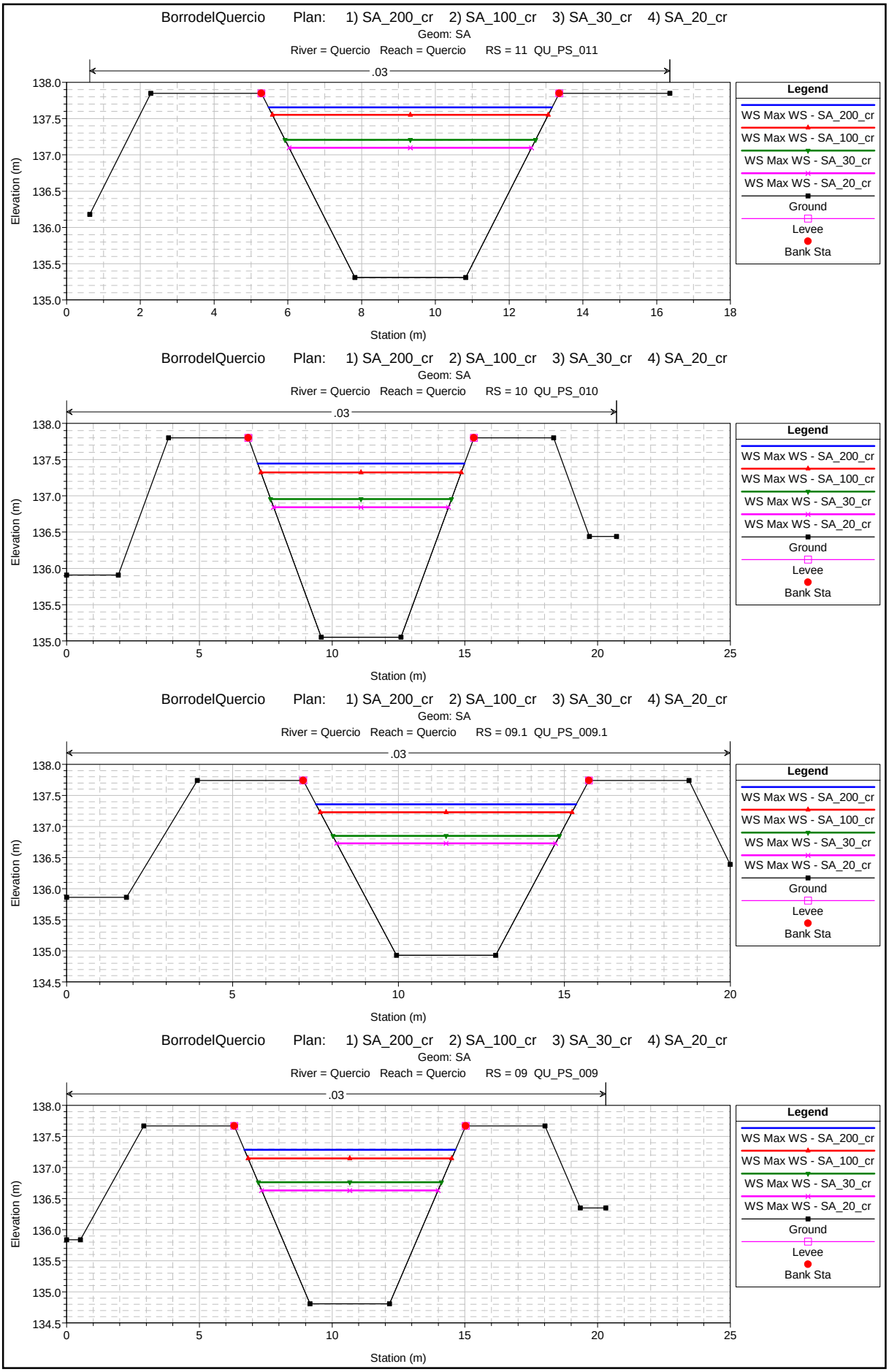
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

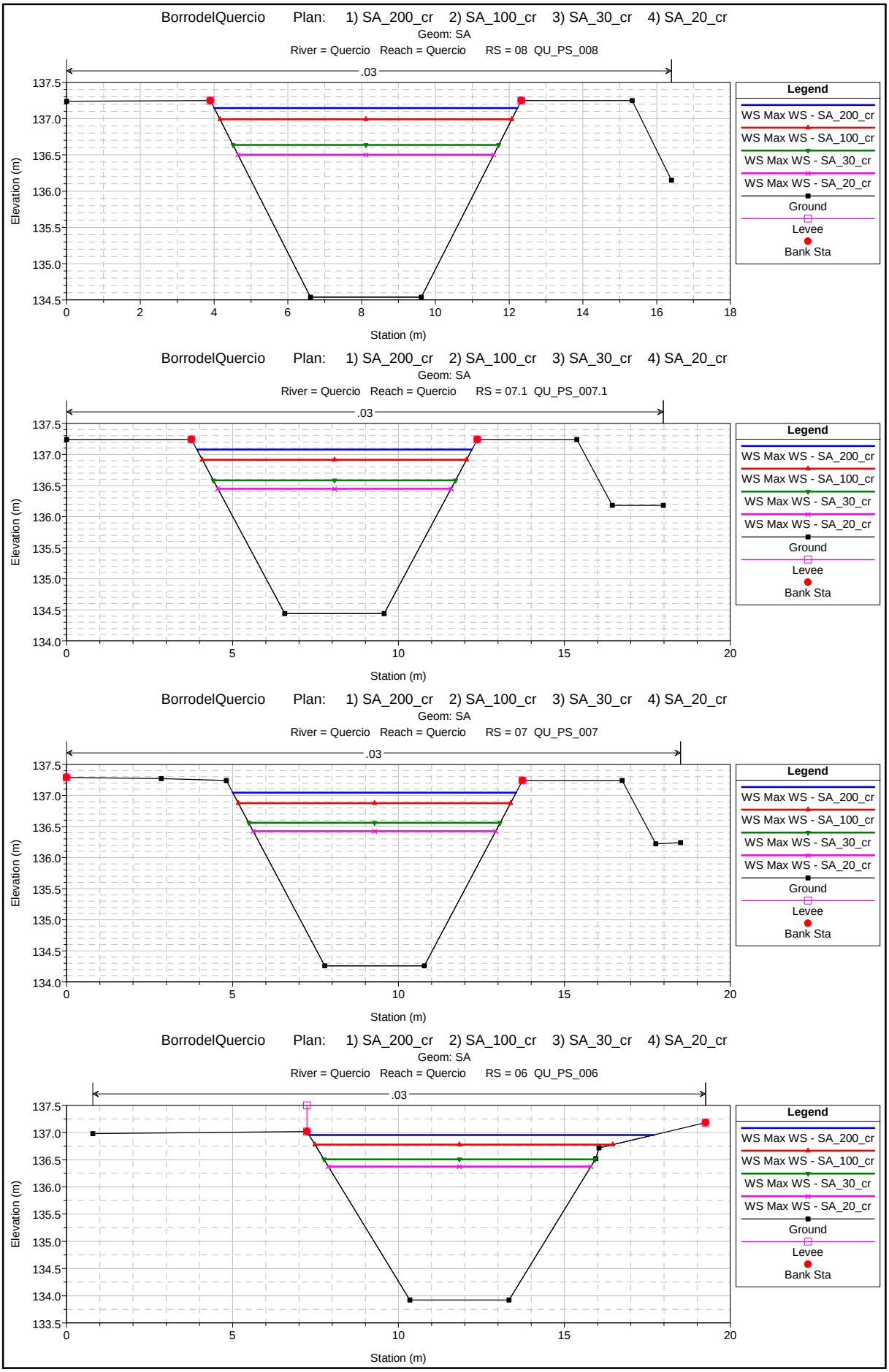
Geom: SA

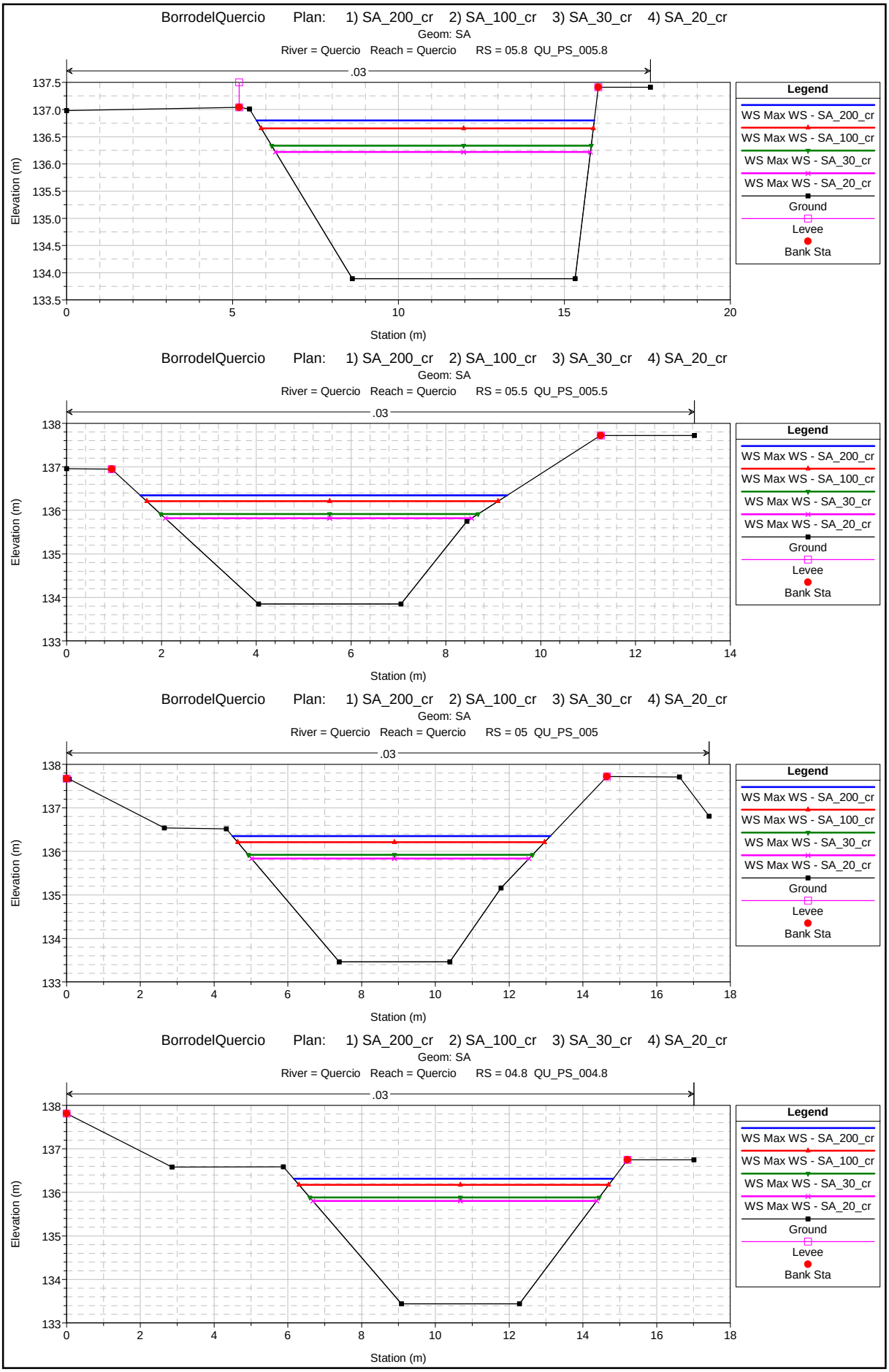
River = Quercio Reach = Quercio RS = 16 QU_PS_016




BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 15 QU_PS_015
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 14 QU_PS_014
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 13 QU_PS_013
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 12 QU_PS_012
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 11 QU_PS_011
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 10 QU_PS_010
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 09.1 QU_PS_009.1
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 09 QU_PS_009
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

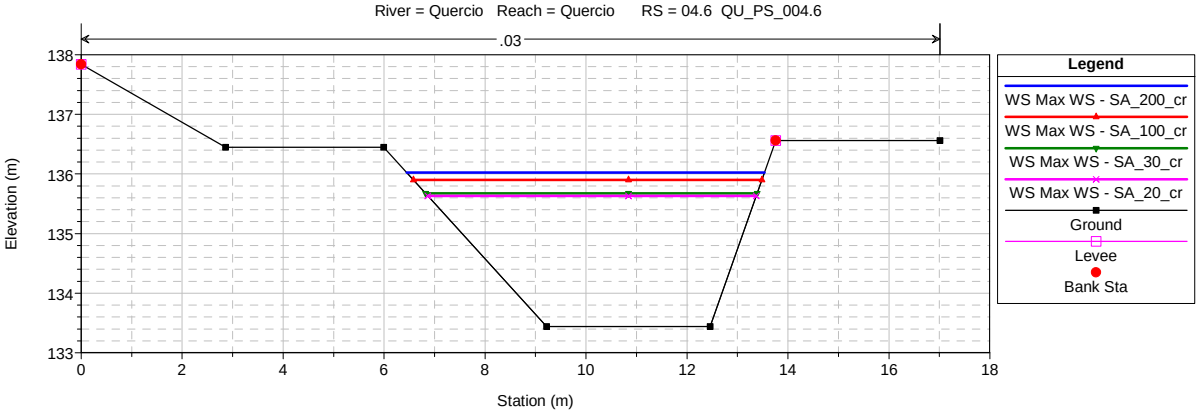

BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 08 QU_PS_008
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 07.1 QU_PS_007.1
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 07 QU_PS_007
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 06 QU_PS_006
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 05.8 QU_PS_005.8
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 05.5 QU_PS_005.5
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 05 QU_PS_005
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 04.8 QU_PS_004.8
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

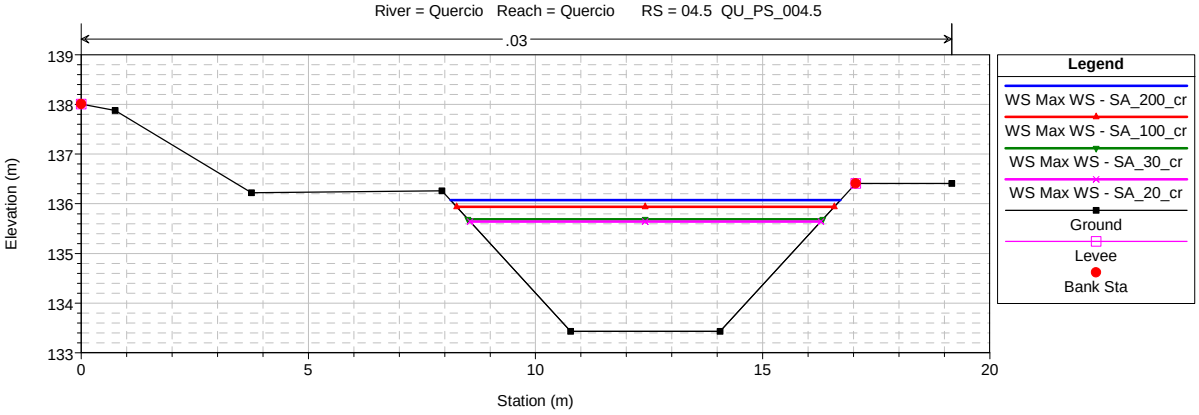
River = Quercio Reach = Quercio RS = 04.6 QU_PS_004.6



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

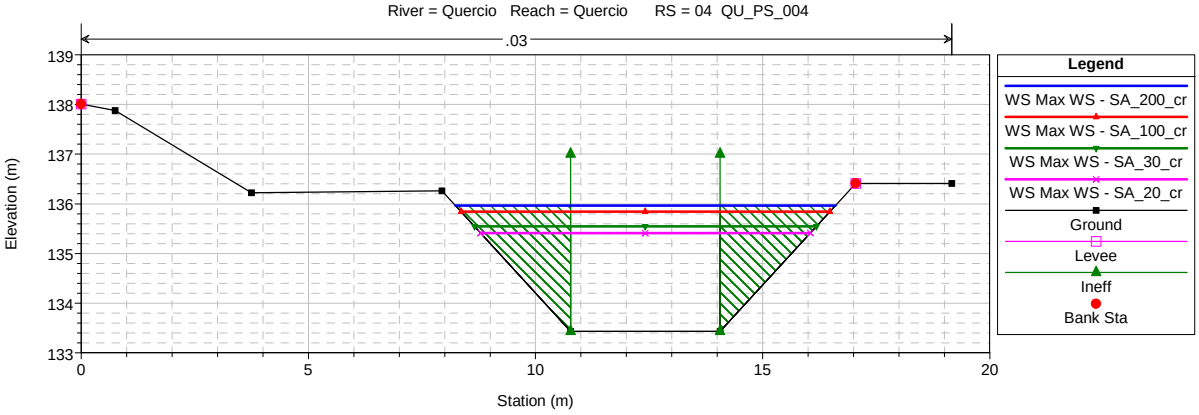
River = Quercio Reach = Quercio RS = 04.5 QU_PS_004.5



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

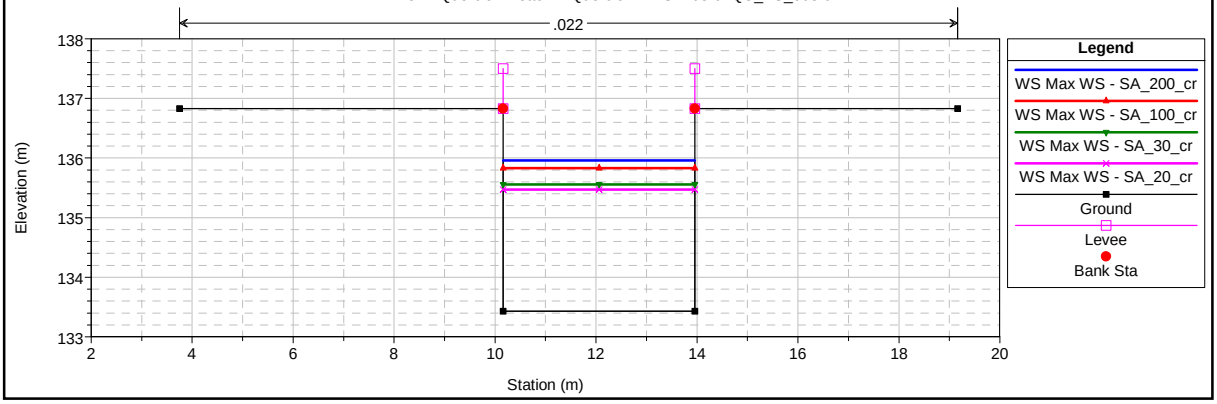
River = Quercio Reach = Quercio RS = 04 QU_PS_004



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

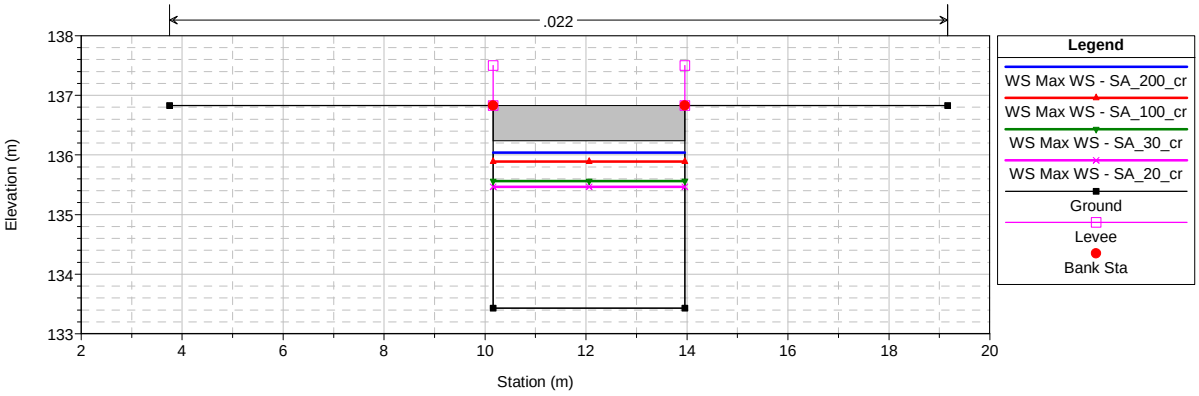
River = Quercio Reach = Quercio RS = 03.6 QU_PS_003.6



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

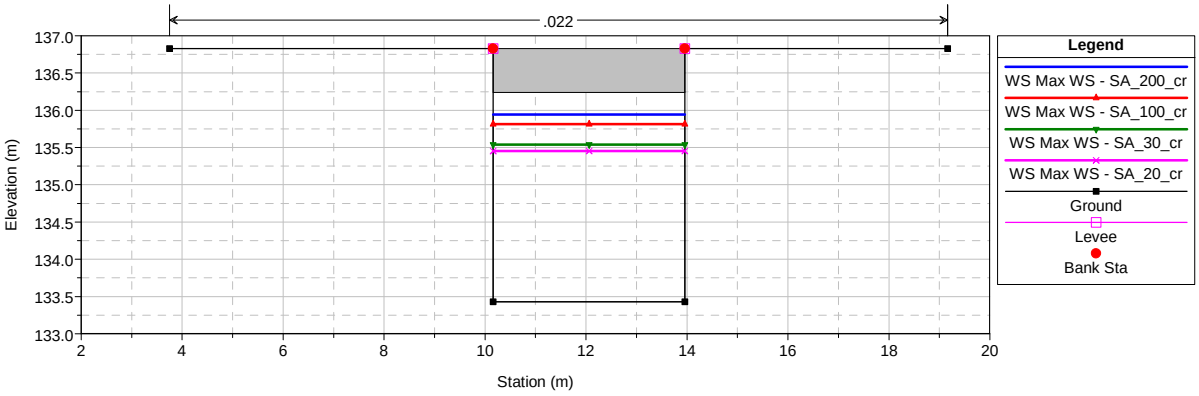
River = Quercio Reach = Quercio RS = 03.5 BR Ponte confluenza Arno



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

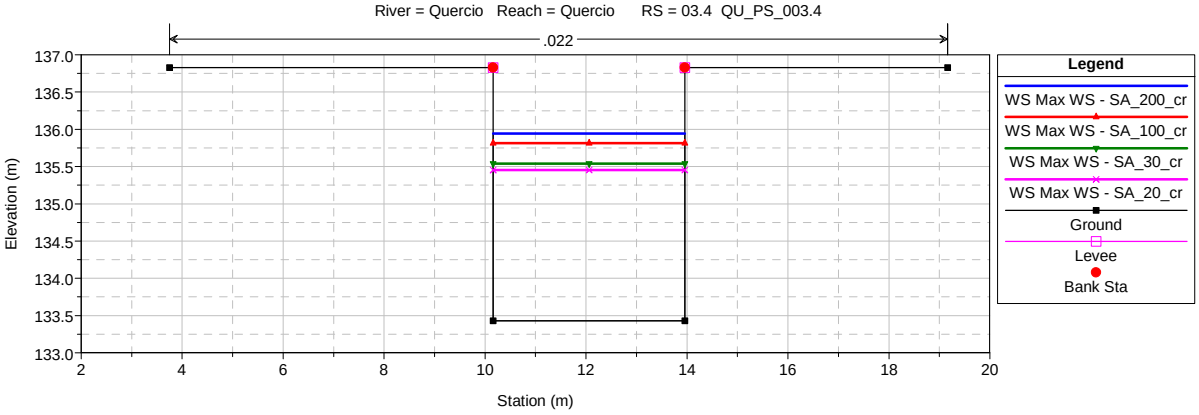
River = Quercio Reach = Quercio RS = 03.5 BR Ponte confluenza Arno



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

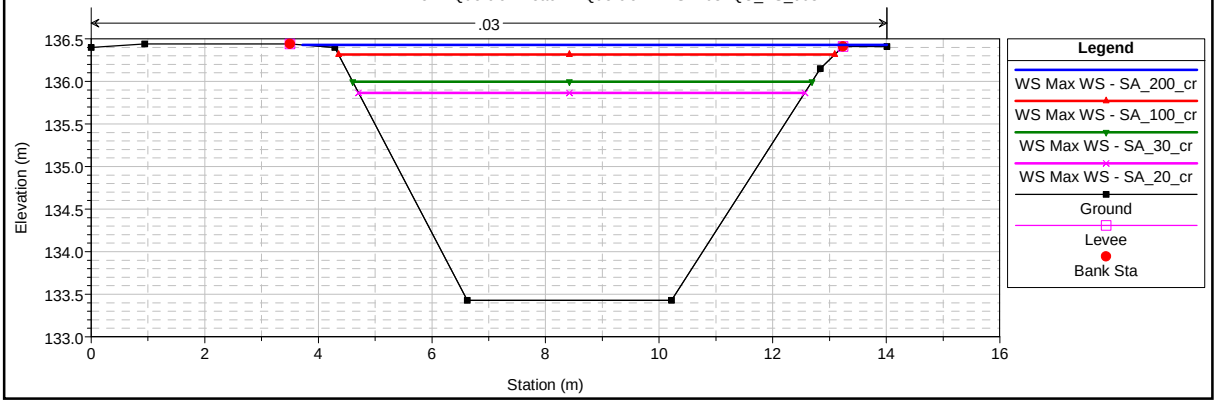
River = Quercio Reach = Quercio RS = 03.4 QU_PS_003.4

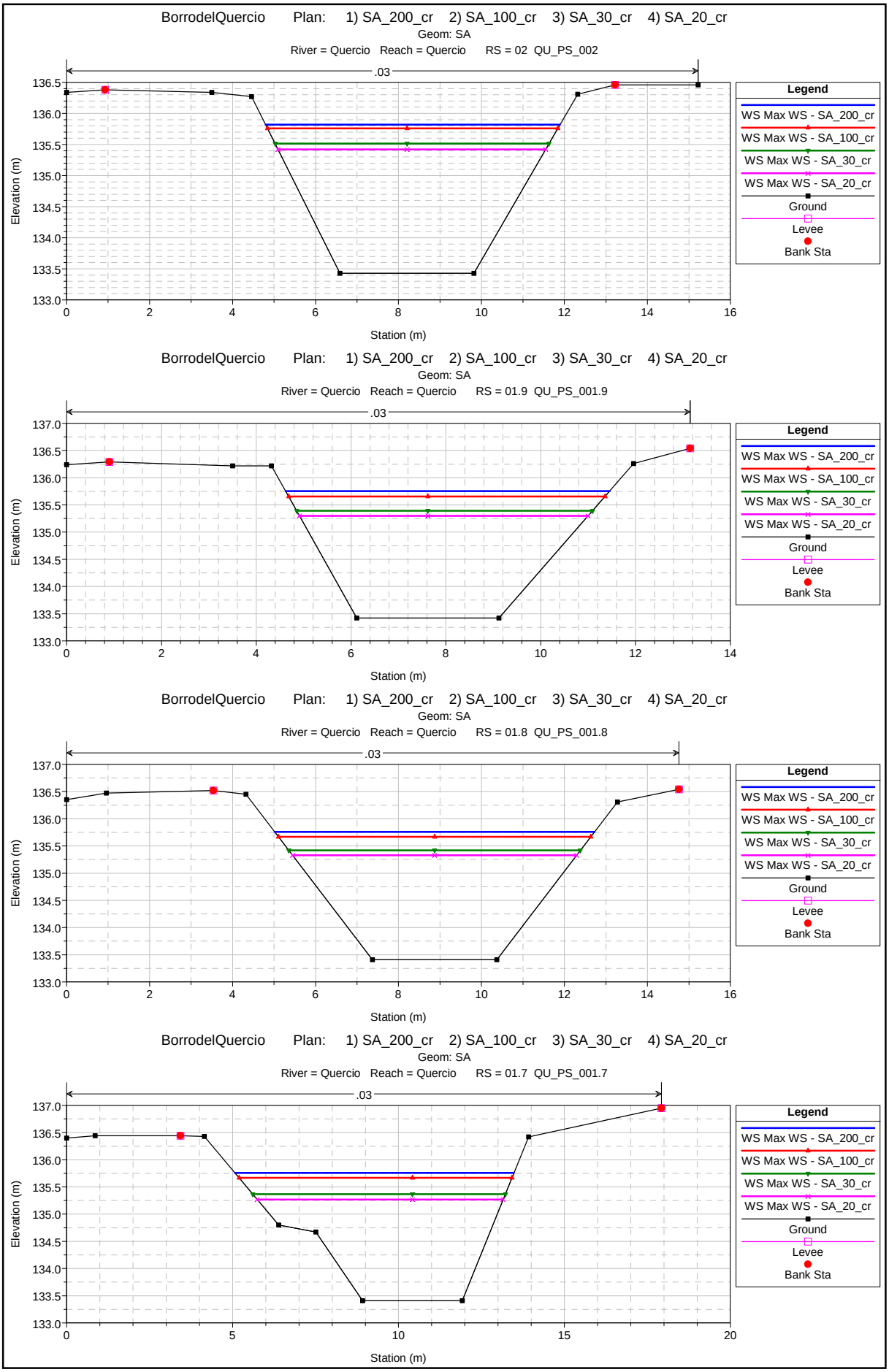


BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

River = Quercio Reach = Quercio RS = 03 QU_PS_003

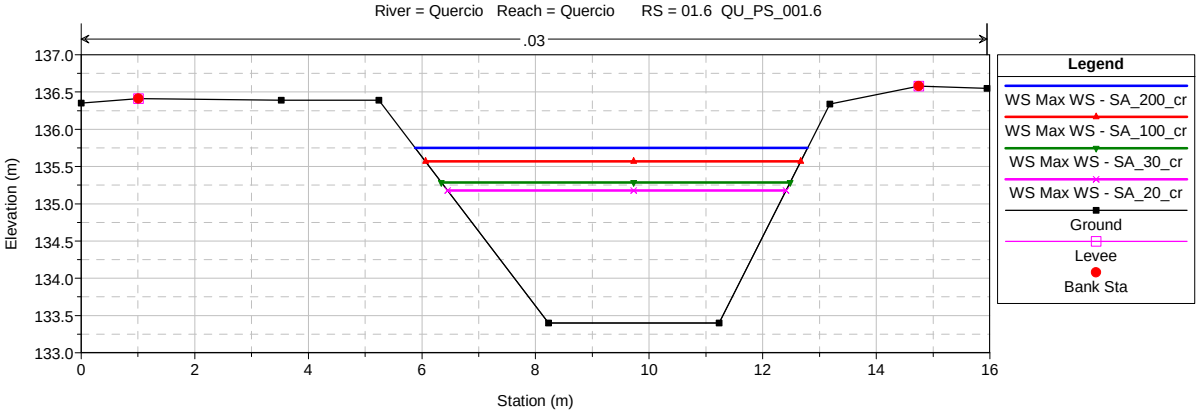



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 02 QU_PS_002
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 01.9 QU_PS_001.9
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 01.8 QU_PS_001.8
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 01.7 QU_PS_001.7
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

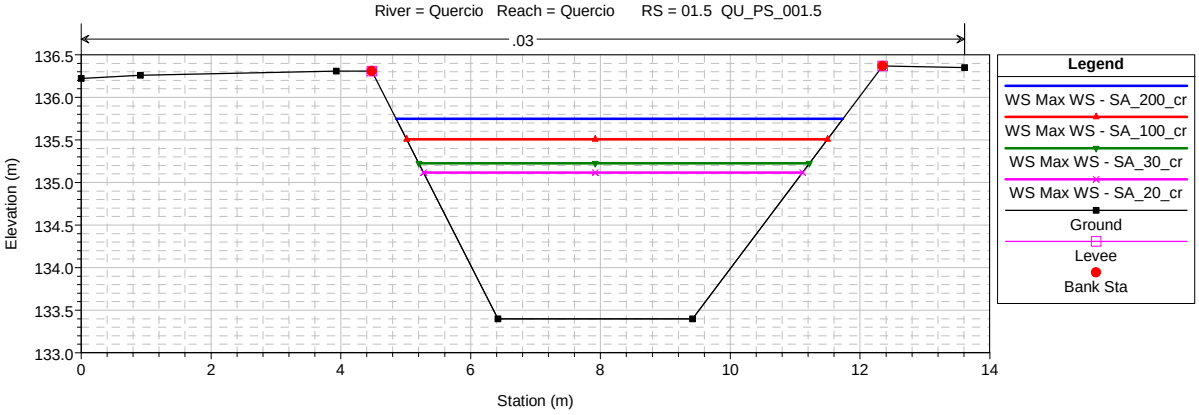
River = Quercio Reach = Quercio RS = 01.6 QU_PS_001.6



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

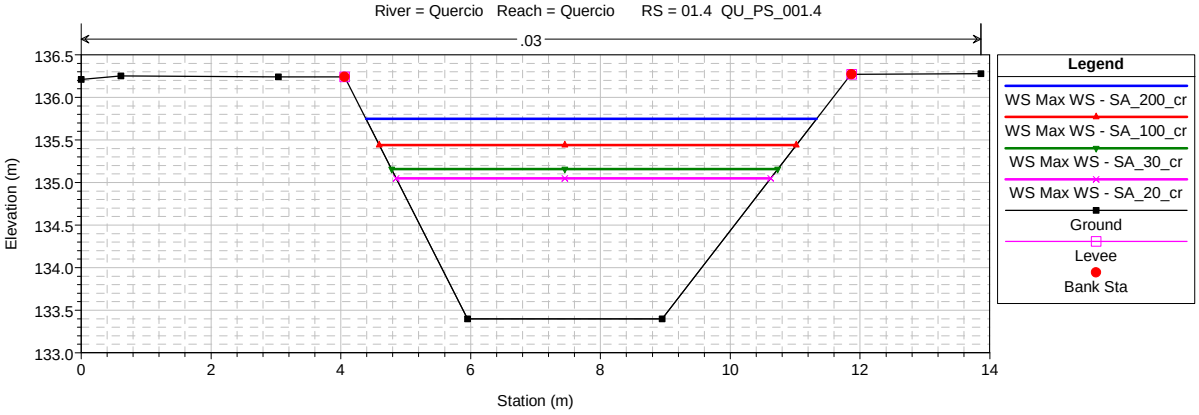
River = Quercio Reach = Quercio RS = 01.5 QU_PS_001.5



BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

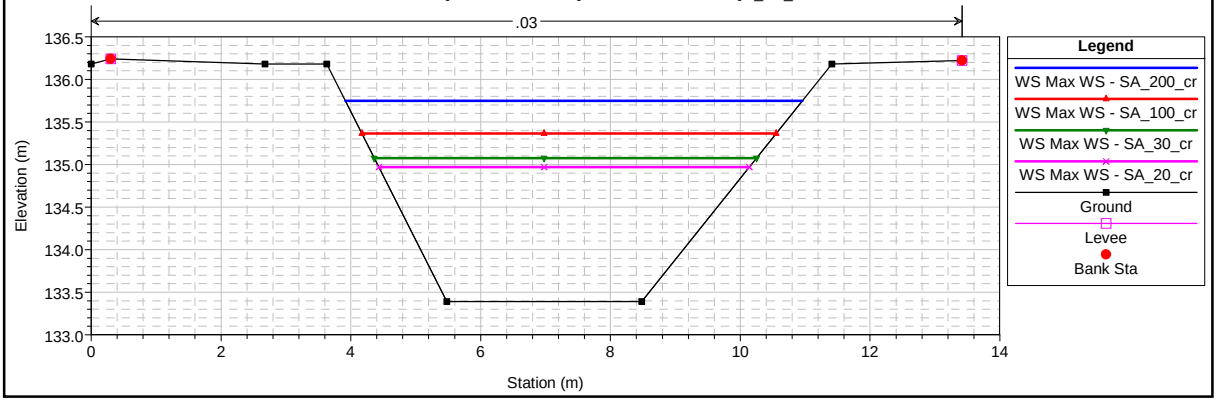
River = Quercio Reach = Quercio RS = 01.4 QU_PS_001.4

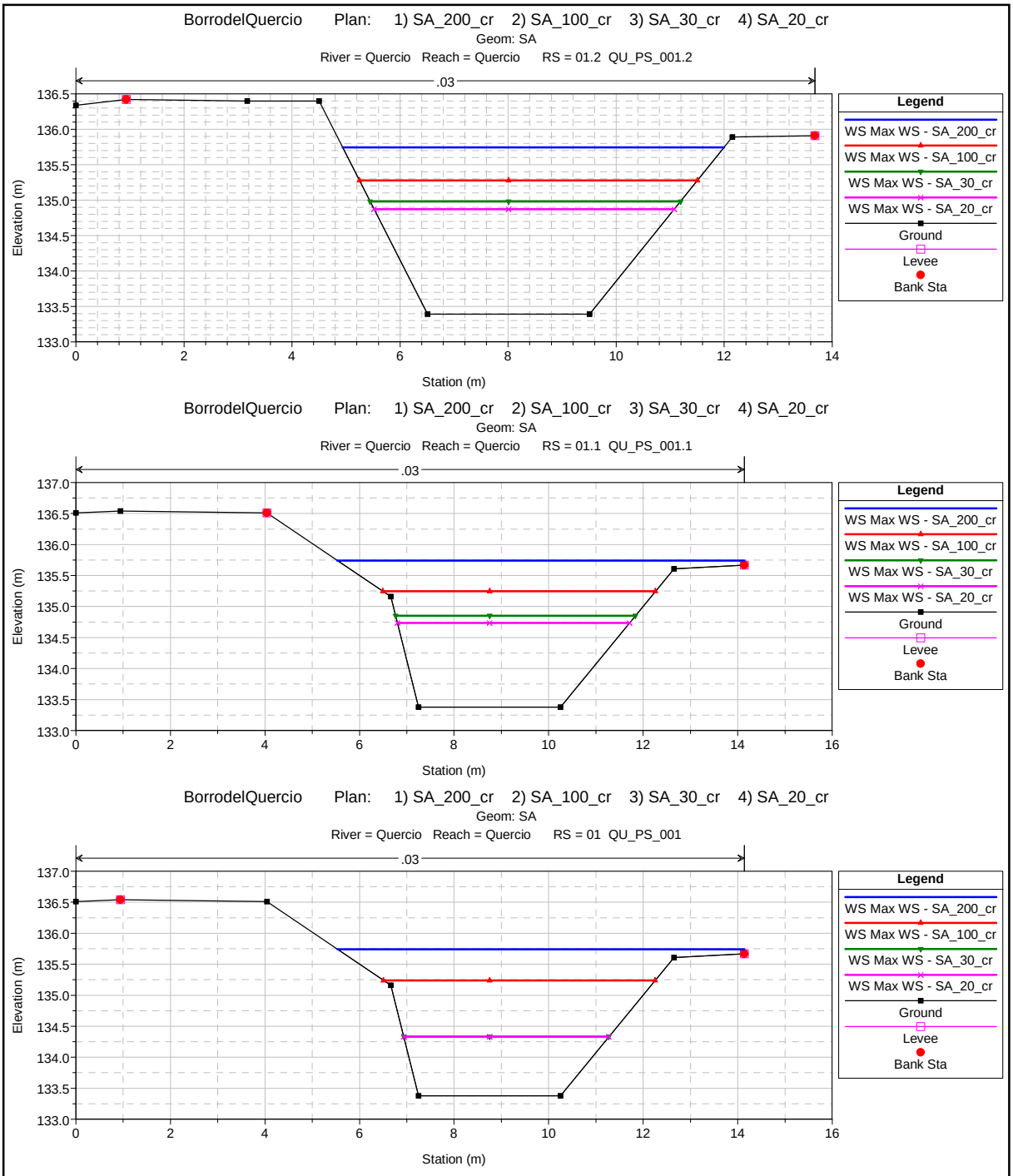


BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

River = Quercio Reach = Quercio RS = 01.3 QU_PS_001.3




BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 01.2 QU_PS_001.2
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 01.1 QU_PS_001.1
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Quercio Reach = Quercio RS = 01 QU_PS_001
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	66	Max WS	SA_200_cr	24.63	141.42	143.22	143.20	143.84	0.012568	3.49	7.05	5.41	0.98
Quercio	66	Max WS	SA_100_cr	20.72	141.42	143.06	143.04	143.62	0.012529	3.33	6.22	5.20	0.97
Quercio	66	Max WS	SA_30_cr	15.14	141.42	142.81	142.78	143.28	0.012538	3.05	4.96	4.86	0.96
Quercio	66	Max WS	SA_20_cr	13.56	141.42	142.73	142.71	143.18	0.012579	2.96	4.58	4.76	0.96
Quercio	65	Max WS	SA_200_cr	24.63	141.40	143.20		143.73	0.009964	3.22	7.65	5.56	0.88
Quercio	65	Max WS	SA_100_cr	20.72	141.40	143.05		143.52	0.009700	3.04	6.81	5.38	0.86
Quercio	65	Max WS	SA_30_cr	15.14	141.40	142.80		143.18	0.009289	2.74	5.53	5.10	0.84
Quercio	65	Max WS	SA_20_cr	13.55	141.40	142.72		143.08	0.009171	2.64	5.14	5.01	0.83
Quercio	64	Max WS	SA_200_cr	24.63	141.38	143.17		143.70	0.009952	3.22	7.66	5.60	0.88
Quercio	64	Max WS	SA_100_cr	20.72	141.38	143.02		143.49	0.009716	3.04	6.82	5.42	0.86
Quercio	64	Max WS	SA_30_cr	15.14	141.38	142.78		143.16	0.009320	2.74	5.53	5.14	0.84
Quercio	64	Max WS	SA_20_cr	13.55	141.38	142.70		143.05	0.009200	2.64	5.14	5.05	0.83
Quercio	63	Max WS	SA_200_cr	24.63	141.34	143.13		143.64	0.009525	3.15	7.81	5.77	0.87
Quercio	63	Max WS	SA_100_cr	20.71	141.34	142.98		143.43	0.009358	2.99	6.94	5.57	0.85
Quercio	63	Max WS	SA_30_cr	15.14	141.34	142.73		143.10	0.009078	2.70	5.60	5.26	0.84
Quercio	63	Max WS	SA_20_cr	13.55	141.34	142.66		143.00	0.008987	2.61	5.20	5.16	0.83
Quercio	62	Max WS	SA_200_cr	24.63	141.31	143.11		143.59	0.008931	3.07	8.03	5.97	0.84
Quercio	62	Max WS	SA_100_cr	20.71	141.31	142.96		143.39	0.008818	2.91	7.12	5.75	0.84
Quercio	62	Max WS	SA_30_cr	15.13	141.31	142.70		143.06	0.008719	2.65	5.71	5.41	0.82
Quercio	62	Max WS	SA_20_cr	13.55	141.31	142.63		142.96	0.008646	2.56	5.29	5.30	0.82
Quercio	61.5	Max WS	SA_200_cr	24.63	141.29	143.06		143.54	0.009129	3.08	8.00	6.11	0.86
Quercio	61.5	Max WS	SA_100_cr	20.71	141.29	142.90		143.34	0.009244	2.95	7.03	5.87	0.86
Quercio	61.5	Max WS	SA_30_cr	15.13	141.29	142.64		143.02	0.009502	2.72	5.56	5.49	0.86
Quercio	61.5	Max WS	SA_20_cr	13.55	141.29	142.56		142.91	0.009603	2.65	5.12	5.37	0.86
Quercio	61	Max WS	SA_200_cr	24.63	141.24	143.22		143.44	0.003067	2.08	11.87	7.00	0.51
Quercio	61	Max WS	SA_100_cr	20.71	141.24	143.05		143.24	0.002937	1.94	10.66	6.87	0.50
Quercio	61	Max WS	SA_30_cr	15.13	141.24	142.77		142.92	0.002745	1.73	8.77	6.65	0.48
Quercio	61	Max WS	SA_20_cr	13.55	141.24	142.68		142.82	0.002687	1.66	8.19	6.58	0.47
Quercio	60	Max WS	SA_200_cr	24.63	141.24	143.21	142.56	143.43	0.001625	2.10	11.73	6.99	0.51
Quercio	60	Max WS	SA_100_cr	20.71	141.24	143.04	142.43	143.23	0.001590	1.96	10.57	6.85	0.50
Quercio	60	Max WS	SA_30_cr	15.13	141.24	142.76	142.20	142.91	0.001516	1.74	8.69	6.64	0.49

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	60	Max WS	SA_20_cr	13.55	141.24	142.67	142.13	142.81	0.001485	1.67	8.11	6.57	0.48
Quercio	59.5			Bridge									
Quercio	59	Max WS	SA_200_cr	24.63	141.18	143.25		143.43	0.001163	1.87	13.14	8.04	0.45
Quercio	59	Max WS	SA_100_cr	20.71	141.18	143.07		143.23	0.001036	1.74	11.92	7.41	0.42
Quercio	59	Max WS	SA_30_cr	15.13	141.18	142.79		142.91	0.000952	1.51	10.00	7.20	0.40
Quercio	59	Max WS	SA_20_cr	13.55	141.18	142.70		142.81	0.000928	1.44	9.40	7.13	0.39
Quercio	58	Max WS	SA_200_cr	24.62	141.16	143.11		143.42	0.004701	2.44	10.08	6.31	0.62
Quercio	58	Max WS	SA_100_cr	20.71	141.16	142.95		143.22	0.004457	2.28	9.08	6.16	0.60
Quercio	58	Max WS	SA_30_cr	15.13	141.16	142.69		142.90	0.004082	2.02	7.50	5.92	0.57
Quercio	58	Max WS	SA_20_cr	13.55	141.16	142.61		142.80	0.003967	1.93	7.01	5.85	0.56
Quercio	57.5	Max WS	SA_200_cr	24.62	141.14	142.92		143.47	0.010567	3.29	7.47	5.46	0.90
Quercio	57.5	Max WS	SA_100_cr	20.71	141.14	142.76		143.26	0.010389	3.12	6.64	5.28	0.89
Quercio	57.5	Max WS	SA_30_cr	15.12	141.14	142.52		142.92	0.010096	2.82	5.36	5.01	0.87
Quercio	57.5	Max WS	SA_20_cr	13.55	141.14	142.44		142.82	0.009999	2.72	4.97	4.93	0.87
Quercio	57	Max WS	SA_200_cr	24.62	141.10	142.88		143.43	0.010398	3.27	7.52	5.50	0.89
Quercio	57	Max WS	SA_100_cr	20.71	141.10	142.73		143.22	0.010207	3.10	6.68	5.33	0.88
Quercio	57	Max WS	SA_30_cr	15.12	141.10	142.48		142.88	0.009896	2.80	5.40	5.05	0.86
Quercio	57	Max WS	SA_20_cr	13.55	141.10	142.40		142.78	0.009774	2.70	5.02	4.96	0.86
Quercio	56.2	Max WS	SA_200_cr	24.62	141.07	142.78	142.75	143.39	0.012073	3.46	7.12	5.40	0.96
Quercio	56.2	Max WS	SA_100_cr	20.70	141.07	142.63	142.59	143.18	0.012034	3.29	6.30	5.23	0.96
Quercio	56.2	Max WS	SA_30_cr	15.12	141.07	142.38	142.34	142.84	0.012036	3.00	5.04	4.95	0.95
Quercio	56.2	Max WS	SA_20_cr	13.55	141.07	142.30	142.27	142.73	0.012038	2.91	4.66	4.87	0.95
Quercio	56.1	Max WS	SA_200_cr	24.62	141.07	142.76		143.23	0.008185	3.06	8.06	6.55	0.88
Quercio	56.1	Max WS	SA_100_cr	20.70	141.07	142.60		143.04	0.008425	2.95	7.02	6.21	0.88
Quercio	56.1	Max WS	SA_30_cr	15.12	141.07	142.34		142.72	0.008877	2.76	5.49	5.67	0.89
Quercio	56.1	Max WS	SA_20_cr	13.55	141.07	142.26		142.62	0.009048	2.69	5.04	5.50	0.90
Quercio	56	Max WS	SA_200_cr	24.62	140.95	142.75		143.16	0.006677	2.85	8.65	6.61	0.79
Quercio	56	Max WS	SA_100_cr	20.70	140.95	142.59		142.97	0.006714	2.72	7.60	6.28	0.79
Quercio	56	Max WS	SA_30_cr	15.12	140.95	142.33		142.65	0.006778	2.51	6.03	5.76	0.78
Quercio	56	Max WS	SA_20_cr	13.55	140.95	142.25		142.55	0.006788	2.44	5.56	5.59	0.78

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	55	Max WS	SA_200_cr	24.61	140.76	142.60		142.99	0.006204	2.77	8.88	6.67	0.77
Quercio	55	Max WS	SA_100_cr	20.70	140.76	142.43		142.79	0.006197	2.64	7.83	6.35	0.76
Quercio	55	Max WS	SA_30_cr	15.11	140.76	142.17		142.47	0.006180	2.43	6.23	5.82	0.75
Quercio	55	Max WS	SA_20_cr	13.55	140.76	142.09		142.37	0.006159	2.35	5.76	5.66	0.74
Quercio	54	Max WS	SA_200_cr	24.61	140.56	142.38		142.78	0.006454	2.81	8.75	6.63	0.78
Quercio	54	Max WS	SA_100_cr	20.69	140.56	142.22		142.58	0.006458	2.68	7.71	6.31	0.78
Quercio	54	Max WS	SA_30_cr	15.10	140.56	141.95		142.26	0.006450	2.46	6.13	5.79	0.76
Quercio	54	Max WS	SA_20_cr	13.55	140.56	141.87		142.16	0.006459	2.39	5.66	5.63	0.76
Quercio	53	Max WS	SA_200_cr	24.60	140.34	142.15		142.56	0.006511	2.82	8.72	6.63	0.78
Quercio	53	Max WS	SA_100_cr	20.68	140.34	141.99		142.36	0.006523	2.69	7.68	6.30	0.78
Quercio	53	Max WS	SA_30_cr	15.09	140.34	141.73		142.04	0.006559	2.48	6.09	5.78	0.77
Quercio	53	Max WS	SA_20_cr	13.55	140.34	141.65		141.94	0.006533	2.40	5.64	5.62	0.77
Quercio	52	Max WS	SA_200_cr	24.59	140.13	141.95		142.35	0.006454	2.81	8.75	6.63	0.78
Quercio	52	Max WS	SA_100_cr	20.67	140.13	141.78		142.15	0.006494	2.69	7.69	6.30	0.78
Quercio	52	Max WS	SA_30_cr	15.08	140.13	141.52		141.83	0.006536	2.47	6.09	5.77	0.77
Quercio	52	Max WS	SA_20_cr	13.55	140.13	141.44		141.73	0.006527	2.40	5.64	5.62	0.76
Quercio	51	Max WS	SA_200_cr	24.59	139.90	141.71		142.12	0.006490	2.82	8.73	6.63	0.78
Quercio	51	Max WS	SA_100_cr	20.66	139.90	141.54		141.92	0.006665	2.71	7.61	6.28	0.79
Quercio	51	Max WS	SA_30_cr	15.06	139.90	141.26		141.59	0.006986	2.53	5.94	5.72	0.79
Quercio	51	Max WS	SA_20_cr	13.55	139.90	141.18		141.49	0.007033	2.47	5.49	5.56	0.79
Quercio	50	Max WS	SA_200_cr	24.59	139.84	141.66		142.06	0.006445	2.81	8.75	6.64	0.78
Quercio	50	Max WS	SA_100_cr	20.66	139.84	141.48		141.85	0.006693	2.72	7.60	6.28	0.79
Quercio	50	Max WS	SA_30_cr	15.06	139.84	141.19		141.53	0.007183	2.56	5.88	5.71	0.80
Quercio	50	Max WS	SA_20_cr	13.55	139.84	141.11		141.43	0.007268	2.50	5.43	5.55	0.81
Quercio	49	Max WS	SA_200_cr	24.59	139.77	141.68		142.00	0.004918	2.52	9.75	7.23	0.69
Quercio	49	Max WS	SA_100_cr	20.66	139.77	141.49		141.79	0.005156	2.45	8.43	6.81	0.70
Quercio	49	Max WS	SA_30_cr	15.06	139.77	141.18		141.46	0.005677	2.33	6.46	6.14	0.72
Quercio	49	Max WS	SA_20_cr	13.55	139.77	141.10		141.36	0.005788	2.28	5.94	5.95	0.73
Quercio	48	Max WS	SA_200_cr	24.59	139.54	141.50		141.83	0.004856	2.53	9.71	6.92	0.68
Quercio	48	Max WS	SA_100_cr	20.60	139.54	141.30		141.61	0.005081	2.46	8.39	6.52	0.69

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	48	Max WS	SA_30_cr	15.06	139.54	140.96		141.25	0.006023	2.40	6.27	5.84	0.74
Quercio	48	Max WS	SA_20_cr	13.54	139.54	140.86		141.15	0.006330	2.37	5.70	5.64	0.75
Quercio	47	Max WS	SA_200_cr	24.53	139.41	141.43		141.73	0.004288	2.42	10.15	7.04	0.64
Quercio	47	Max WS	SA_100_cr	20.54	139.41	141.23		141.51	0.004491	2.35	8.76	6.64	0.65
Quercio	47	Max WS	SA_30_cr	15.04	139.41	140.85		141.13	0.005725	2.36	6.38	5.88	0.72
Quercio	47	Max WS	SA_20_cr	13.54	139.41	140.73		141.02	0.006314	2.37	5.71	5.64	0.75
Quercio	46.1	Max WS	SA_200_cr	24.53	139.38	141.49		141.72	0.002395	2.11	11.63	7.13	0.53
Quercio	46.1	Max WS	SA_100_cr	20.54	139.38	141.29		141.50	0.002378	2.00	10.24	6.72	0.52
Quercio	46.1	Max WS	SA_30_cr	15.06	139.38	140.93		141.12	0.002565	1.89	7.96	6.01	0.52
Quercio	46.1	Max WS	SA_20_cr	13.54	139.38	140.82		141.00	0.002629	1.85	7.31	5.79	0.53
Quercio	46	Max WS	SA_200_cr	24.48	139.38	141.42	140.72	141.71	0.002393	2.40	10.19	5.00	0.54
Quercio	46	Max WS	SA_100_cr	20.54	139.38	141.24	140.58	141.49	0.002152	2.20	9.32	5.00	0.52
Quercio	46	Max WS	SA_30_cr	15.06	139.38	140.91	140.35	141.11	0.001999	1.96	7.66	5.00	0.51
Quercio	46	Max WS	SA_20_cr	13.54	139.38	140.81	140.29	140.99	0.001975	1.90	7.14	5.00	0.51
Quercio	45.5			Bridge									
Quercio	45	Max WS	SA_200_cr	24.48	139.34	141.42		141.70	0.002275	2.36	10.38	5.00	0.52
Quercio	45	Max WS	SA_100_cr	20.54	139.34	141.24		141.48	0.002035	2.16	9.51	5.00	0.50
Quercio	45	Max WS	SA_30_cr	15.06	139.34	140.91		141.10	0.001861	1.92	7.86	5.00	0.49
Quercio	45	Max WS	SA_20_cr	13.54	139.34	140.81		140.98	0.001829	1.85	7.34	5.00	0.49
Quercio	44	Max WS	SA_200_cr	24.48	139.34	141.41		141.65	0.002571	2.16	11.32	7.05	0.54
Quercio	44	Max WS	SA_100_cr	20.54	139.34	141.21		141.43	0.002546	2.05	10.00	6.66	0.54
Quercio	44	Max WS	SA_30_cr	15.04	139.34	140.86		141.05	0.002774	1.94	7.73	5.94	0.54
Quercio	44	Max WS	SA_20_cr	13.53	139.34	140.74		140.93	0.002864	1.91	7.08	5.72	0.55
Quercio	43.5	Max WS	SA_200_cr	24.34	139.31	141.21		141.56	0.005306	2.61	9.33	6.80	0.71
Quercio	43.5	Max WS	SA_100_cr	20.35	139.31	141.01		141.34	0.005681	2.55	7.98	6.39	0.73
Quercio	43.5	Max WS	SA_30_cr	15.03	139.31	140.60		140.98	0.008565	2.73	5.51	5.57	0.87
Quercio	43.5	Max WS	SA_20_cr	13.54	139.31	140.49		140.88	0.009387	2.74	4.95	5.36	0.91
Quercio	43	Max WS	SA_200_cr	24.34	138.91	141.28		141.47	0.002289	1.91	12.73	7.73	0.48
Quercio	43	Max WS	SA_100_cr	20.35	138.91	141.07		141.24	0.002286	1.82	11.16	7.32	0.47
Quercio	43	Max WS	SA_30_cr	15.03	138.91	140.61		140.79	0.003085	1.88	7.99	6.40	0.54

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	43	Max WS	SA_20_cr	13.53	138.91	140.47		140.65	0.003443	1.90	7.11	6.11	0.56
Quercio	42.99			Lat Struct									
Quercio	42.98			Lat Struct									
Quercio	42	Max WS	SA_200_cr	24.19	138.67	141.14		141.30	0.001942	1.80	13.48	7.93	0.44
Quercio	42	Max WS	SA_100_cr	20.14	138.67	140.93		141.07	0.001897	1.70	11.86	7.51	0.43
Quercio	42	Max WS	SA_30_cr	14.77	138.67	140.38		140.55	0.002943	1.84	8.03	6.41	0.52
Quercio	42	Max WS	SA_20_cr	12.12	138.67	140.18		140.34	0.003145	1.79	6.78	6.01	0.54
Quercio	41.5	Max WS	SA_200_cr	24.11	138.50	141.11		141.25	0.001543	1.65	14.61	8.12	0.39
Quercio	41.5	Max WS	SA_100_cr	20.12	138.50	140.90		141.02	0.001496	1.55	12.95	7.80	0.39
Quercio	41.5	Max WS	SA_30_cr	14.63	138.50	140.33		140.47	0.002244	1.66	8.81	6.65	0.46
Quercio	41.5	Max WS	SA_20_cr	11.45	138.50	140.12		140.24	0.002126	1.53	7.51	6.25	0.44
Quercio	41	Max WS	SA_200_cr	21.49	138.49	140.80	140.05	141.15	0.001990	2.63	8.18	6.66	0.55
Quercio	41	Max WS	SA_100_cr	19.84	138.49	140.62	139.96	140.97	0.002213	2.63	7.55	6.31	0.57
Quercio	41	Max WS	SA_30_cr	14.24	138.49	140.04	139.67	140.38	0.003322	2.60	5.48	5.13	0.67
Quercio	41	Max WS	SA_20_cr	10.65	138.49	139.94	139.46	140.16	0.002327	2.08	5.12	4.93	0.55
Quercio	40.5			Bridge									
Quercio	40	Max WS	SA_200_cr	21.03	138.46	140.74		141.08	0.001311	2.61	8.06	6.02	0.55
Quercio	40	Max WS	SA_100_cr	19.56	138.46	140.58		140.92	0.001448	2.61	7.49	5.86	0.57
Quercio	40	Max WS	SA_30_cr	14.24	138.46	140.02		140.36	0.002131	2.58	5.51	5.30	0.66
Quercio	40	Max WS	SA_20_cr	10.65	138.46	139.93		140.14	0.001461	2.05	5.19	5.11	0.54
Quercio	39.99			Lat Struct									
Quercio	39.98			Lat Struct									
Quercio	39	Max WS	SA_200_cr	22.35	138.42	140.93		141.09	0.001380	1.75	12.76	6.41	0.40
Quercio	39	Max WS	SA_100_cr	19.84	138.42	140.76		140.90	0.001385	1.70	11.66	6.25	0.40
Quercio	39	Max WS	SA_30_cr	14.46	138.42	140.17		140.33	0.001959	1.77	8.15	5.66	0.47
Quercio	39	Max WS	SA_20_cr	10.65	138.42	140.01		140.12	0.001460	1.47	7.27	5.50	0.41
Quercio	38.5	Max WS	SA_200_cr	22.26	138.38	140.95		141.08	0.001098	1.61	13.85	6.72	0.36

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	38.5	Max WS	SA_100_cr	19.83	138.38	140.77		140.89	0.001110	1.56	12.68	6.58	0.36
Quercio	38.5	Max WS	SA_30_cr	14.46	138.38	140.18		140.31	0.001519	1.61	8.97	5.99	0.42
Quercio	38.5	Max WS	SA_20_cr	10.64	138.38	140.02		140.11	0.001130	1.33	8.01	5.83	0.36
Quercio	38	Max WS	SA_200_cr	22.94	138.36	140.97	139.53	141.09	0.000344	1.51	15.16	13.15	0.30
Quercio	38	Max WS	SA_100_cr	19.83	138.36	140.79	139.42	140.89	0.000327	1.41	14.10	8.45	0.29
Quercio	38	Max WS	SA_30_cr	14.46	138.36	140.21	139.22	140.30	0.000429	1.34	10.76	7.87	0.32
Quercio	38	Max WS	SA_20_cr	10.64	138.36	140.04	139.06	140.10	0.000322	1.09	9.76	7.70	0.27
Quercio	37.5			Bridge									
Quercio	37	Max WS	SA_200_cr	21.88	138.33	140.94		141.05	0.000358	1.45	15.08	7.23	0.29
Quercio	37	Max WS	SA_100_cr	19.83	138.33	140.77		140.87	0.000372	1.41	14.06	7.09	0.29
Quercio	37	Max WS	SA_30_cr	14.46	138.33	140.20		140.29	0.000475	1.34	10.81	6.74	0.31
Quercio	37	Max WS	SA_20_cr	10.64	138.33	140.04		140.10	0.000352	1.08	9.84	6.72	0.26
Quercio	36.99			Lat Struct									
Quercio	36	Max WS	SA_200_cr	22.27	138.33	140.98		141.06	0.000620	1.28	17.42	7.24	0.26
Quercio	36	Max WS	SA_100_cr	19.82	138.33	140.78		140.86	0.000629	1.24	16.03	7.14	0.26
Quercio	36	Max WS	SA_30_cr	14.45	138.33	140.22		140.29	0.000715	1.19	12.14	6.75	0.28
Quercio	36	Max WS	SA_20_cr	10.63	138.33	140.04		140.09	0.000518	0.97	10.98	6.73	0.24
Quercio	35	Max WS	SA_200_cr	35.79	138.15	140.16		140.84	0.007574	3.65	9.82	5.46	0.87
Quercio	35	Max WS	SA_100_cr	31.51	138.15	140.02		140.64	0.007446	3.49	9.03	5.43	0.86
Quercio	35	Max WS	SA_30_cr	23.30	138.15	139.63		140.21	0.008590	3.35	6.96	5.34	0.94
Quercio	35	Max WS	SA_20_cr	20.83	138.15	139.52	139.48	140.07	0.008923	3.28	6.36	5.32	0.96
Quercio	34	Max WS	SA_200_cr	35.79	138.04	140.20		140.78	0.006079	3.38	10.60	5.49	0.78
Quercio	34	Max WS	SA_100_cr	31.51	138.04	140.05		140.58	0.005855	3.21	9.81	5.45	0.76
Quercio	34	Max WS	SA_30_cr	23.30	138.04	139.63		140.12	0.006807	3.10	7.52	5.35	0.83
Quercio	34	Max WS	SA_20_cr	20.80	138.04	139.50		139.97	0.007115	3.04	6.85	5.32	0.85
Quercio	33	Max WS	SA_200_cr	35.79	137.83	140.21	139.51	140.63	0.002944	2.86	12.51	5.25	0.59
Quercio	33	Max WS	SA_100_cr	31.50	137.83	140.08	139.37	140.44	0.002680	2.67	11.79	5.25	0.57
Quercio	33	Max WS	SA_30_cr	23.27	137.83	139.64	139.09	139.94	0.002654	2.45	9.49	5.25	0.58
Quercio	33	Max WS	SA_20_cr	20.80	137.83	139.50	139.00	139.79	0.002649	2.37	8.77	5.25	0.59

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	32.5			Bridge									
Quercio	32	Max WS	SA_200_cr	35.79	137.79	140.31		140.59	0.001657	2.34	15.26	6.88	0.50
Quercio	32	Max WS	SA_100_cr	31.50	137.79	140.16		140.41	0.001555	2.21	14.24	6.79	0.49
Quercio	32	Max WS	SA_30_cr	23.29	137.79	139.71		139.93	0.001636	2.07	11.24	6.49	0.50
Quercio	32	Max WS	SA_20_cr	20.80	137.79	139.56		139.77	0.001667	2.02	10.31	6.40	0.51
Quercio	30	Max WS	SA_200_cr	34.64	137.58	140.02		140.48	0.004186	3.01	11.52	5.61	0.67
Quercio	30	Max WS	SA_100_cr	31.49	137.58	139.90		140.33	0.004077	2.91	10.84	5.54	0.66
Quercio	30	Max WS	SA_30_cr	23.27	137.58	139.46		139.84	0.004403	2.76	8.44	5.28	0.70
Quercio	30	Max WS	SA_20_cr	20.80	137.58	139.31		139.69	0.004544	2.70	7.70	5.17	0.71
Quercio	29	Max WS	SA_200_cr	34.62	137.35	139.66		140.35	0.007430	3.68	9.40	5.08	0.86
Quercio	29	Max WS	SA_100_cr	31.48	137.35	139.55		140.19	0.007246	3.56	8.85	5.02	0.86
Quercio	29	Max WS	SA_30_cr	23.27	137.35	139.12		139.71	0.007749	3.41	6.82	4.52	0.89
Quercio	29	Max WS	SA_20_cr	20.79	137.35	138.98		139.55	0.007943	3.34	6.22	4.43	0.90
Quercio	28.99			Lat Struct									
Quercio	28	Max WS	SA_200_cr	34.55	137.12	139.73		140.19	0.004124	3.00	11.52	5.29	0.65
Quercio	28	Max WS	SA_100_cr	31.46	137.12	139.62		140.04	0.003927	2.88	10.94	5.26	0.64
Quercio	28	Max WS	SA_30_cr	23.26	137.12	139.16		139.54	0.004094	2.71	8.60	4.94	0.65
Quercio	28	Max WS	SA_20_cr	20.79	137.12	139.01		139.37	0.004162	2.64	7.86	4.83	0.66
Quercio	27	Max WS	SA_200_cr	35.75	137.09	139.55		140.17	0.006196	3.48	10.27	4.47	0.73
Quercio	27	Max WS	SA_100_cr	31.46	137.09	139.43		139.96	0.005538	3.23	9.73	4.44	0.70
Quercio	27	Max WS	SA_30_cr	23.26	137.09	139.01		139.46	0.005300	2.95	7.89	4.34	0.70
Quercio	27	Max WS	SA_20_cr	20.79	137.09	138.87		139.29	0.005247	2.85	7.29	4.31	0.70
Quercio	26	Max WS	SA_200_cr	35.75	136.92	139.40		140.02	0.006318	3.48	10.29	4.52	0.74
Quercio	26	Max WS	SA_100_cr	31.46	136.92	139.32		139.83	0.005401	3.17	9.91	4.50	0.68
Quercio	26	Max WS	SA_30_cr	23.26	136.92	138.91		139.33	0.005122	2.88	8.08	4.41	0.68
Quercio	26	Max WS	SA_20_cr	20.78	136.92	138.77		139.17	0.005057	2.78	7.47	4.38	0.68
Quercio	25	Max WS	SA_200_cr	35.41	136.80	139.44		139.92	0.004424	3.04	11.64	4.98	0.64
Quercio	25	Max WS	SA_100_cr	31.44	136.80	139.33		139.74	0.004003	2.84	11.05	4.98	0.61
Quercio	25	Max WS	SA_30_cr	23.26	136.80	138.90		139.24	0.003905	2.60	8.93	4.83	0.61
Quercio	25	Max WS	SA_20_cr	20.78	136.80	138.75		139.08	0.003883	2.52	8.24	4.78	0.61

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	24	Max WS	SA_200_cr	34.77	136.58	139.09		139.77	0.007384	3.64	9.54	4.15	0.77
Quercio	24	Max WS	SA_100_cr	31.42	136.58	138.97		139.58	0.006981	3.48	9.02	4.12	0.75
Quercio	24	Max WS	SA_30_cr	23.26	136.58	138.61		139.09	0.006105	3.07	7.57	4.05	0.72
Quercio	24	Max WS	SA_20_cr	20.77	136.58	138.49		138.93	0.005799	2.93	7.10	4.02	0.70
Quercio	23.5	Max WS	SA_200_cr	34.77	136.55	138.89		139.83	0.011384	4.28	8.12	3.77	0.93
Quercio	23.5	Max WS	SA_100_cr	31.41	136.55	138.76		139.63	0.010937	4.12	7.63	3.75	0.92
Quercio	23.5	Max WS	SA_30_cr	23.26	136.55	138.41		139.10	0.009844	3.67	6.33	3.68	0.89
Quercio	23.5	Max WS	SA_20_cr	20.77	136.55	138.30		138.93	0.009424	3.51	5.91	3.65	0.88
Quercio	23	Max WS	SA_200_cr	34.77	136.48	138.80	138.80	139.84	0.013387	4.51	7.70	3.72	1.00
Quercio	23	Max WS	SA_100_cr	31.41	136.48	138.67	138.66	139.64	0.013009	4.35	7.21	3.69	0.99
Quercio	23	Max WS	SA_30_cr	23.26	136.48	138.32	138.30	139.10	0.012122	3.93	5.92	3.62	0.98
Quercio	23	Max WS	SA_20_cr	20.77	136.48	138.20	138.17	138.93	0.011790	3.77	5.50	3.60	0.97
Quercio	21	Max WS	SA_200_cr	34.77	136.38	138.66		139.59	0.011044	4.28	8.13	3.78	0.93
Quercio	21	Max WS	SA_100_cr	31.41	136.38	138.54		139.39	0.010487	4.10	7.67	3.78	0.92
Quercio	21	Max WS	SA_30_cr	23.25	136.38	138.21		138.87	0.009074	3.60	6.45	3.71	0.87
Quercio	21	Max WS	SA_20_cr	20.76	136.38	138.11		138.70	0.008500	3.42	6.08	3.69	0.85
Quercio	20	Max WS	SA_200_cr	34.77	136.36	138.72		139.30	0.007848	3.37	10.32	5.74	0.80
Quercio	20	Max WS	SA_100_cr	31.41	136.36	138.61		139.15	0.007577	3.24	9.69	5.61	0.79
Quercio	20	Max WS	SA_30_cr	23.25	136.36	138.27		138.72	0.007311	2.96	7.85	5.22	0.77
Quercio	20	Max WS	SA_20_cr	20.76	136.36	138.16		138.57	0.007195	2.86	7.27	5.09	0.76
Quercio	19	Max WS	SA_200_cr	34.77	136.19	138.49		139.11	0.008609	3.49	9.97	5.67	0.84
Quercio	19	Max WS	SA_100_cr	31.41	136.19	138.40		138.96	0.008063	3.32	9.47	5.57	0.81
Quercio	19	Max WS	SA_30_cr	23.23	136.19	138.08		138.54	0.007538	2.99	7.76	5.20	0.78
Quercio	19	Max WS	SA_20_cr	20.76	136.19	137.98		138.40	0.007311	2.87	7.22	5.08	0.77
Quercio	18	Max WS	SA_200_cr	34.77	136.14	138.53		138.90	0.004579	2.71	12.83	7.75	0.67
Quercio	18	Max WS	SA_100_cr	31.40	136.14	138.44		138.78	0.004322	2.58	12.15	7.58	0.65
Quercio	18	Max WS	SA_30_cr	23.23	136.14	138.07		138.38	0.004579	2.44	9.52	6.85	0.66
Quercio	18	Max WS	SA_20_cr	20.75	136.14	137.95		138.24	0.004657	2.38	8.71	6.61	0.66
Quercio	17.99			Lat Struct									

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	17.98			Lat Struct									
Quercio	17	Max WS	SA_200_cr	34.77	135.86	138.34		138.68	0.003896	2.55	13.62	7.97	0.62
Quercio	17	Max WS	SA_100_cr	31.37	135.86	138.28		138.57	0.003507	2.39	13.12	7.84	0.59
Quercio	17	Max WS	SA_30_cr	23.22	135.86	137.90		138.16	0.003720	2.26	10.28	7.08	0.60
Quercio	17	Max WS	SA_20_cr	20.74	135.86	137.77		138.02	0.003774	2.21	9.40	6.83	0.60
Quercio	16	Max WS	SA_200_cr	34.14	135.67	138.29		138.62	0.002982	2.53	13.47	7.00	0.58
Quercio	16	Max WS	SA_100_cr	31.36	135.67	138.21		138.51	0.002860	2.43	12.88	7.00	0.57
Quercio	16	Max WS	SA_30_cr	23.22	135.67	137.84		138.10	0.002894	2.24	10.35	6.66	0.57
Quercio	16	Max WS	SA_20_cr	20.74	135.67	137.72		137.96	0.002907	2.17	9.54	6.54	0.57
Quercio	15	Max WS	SA_200_cr	33.78	135.62	138.03		138.56	0.005458	3.25	10.39	5.61	0.76
Quercio	15	Max WS	SA_100_cr	31.33	135.62	137.94		138.45	0.005347	3.17	9.90	5.52	0.75
Quercio	15	Max WS	SA_30_cr	23.22	135.62	137.62		138.03	0.004879	2.83	8.20	5.20	0.72
Quercio	15	Max WS	SA_20_cr	20.74	135.62	137.52		137.89	0.004655	2.70	7.67	5.10	0.70
Quercio	14	Max WS	SA_200_cr	33.78	135.57	137.84		138.46	0.006672	3.51	9.64	5.47	0.84
Quercio	14	Max WS	SA_100_cr	31.33	135.57	137.75		138.35	0.006533	3.41	9.18	5.38	0.83
Quercio	14	Max WS	SA_30_cr	23.22	135.57	137.46		137.93	0.005861	3.03	7.66	5.09	0.79
Quercio	14	Max WS	SA_20_cr	20.73	135.57	137.37		137.79	0.005494	2.87	7.21	5.00	0.76
Quercio	13	Max WS	SA_200_cr	33.78	135.52	137.65		138.39	0.008266	3.80	8.90	5.33	0.94
Quercio	13	Max WS	SA_100_cr	31.33	135.52	137.57		138.27	0.008173	3.71	8.45	5.25	0.93
Quercio	13	Max WS	SA_30_cr	23.22	135.52	137.28		137.84	0.007563	3.33	6.97	4.96	0.90
Quercio	13	Max WS	SA_20_cr	20.73	135.52	137.20		137.70	0.007091	3.16	6.57	4.88	0.87
Quercio	12	Max WS	SA_200_cr	33.63	135.47	137.60		138.17	0.006517	3.33	10.10	6.62	0.86
Quercio	12	Max WS	SA_100_cr	31.33	135.47	137.51		138.06	0.006703	3.29	9.51	6.53	0.87
Quercio	12	Max WS	SA_30_cr	23.22	135.47	137.20		137.69	0.007134	3.08	7.54	6.23	0.89
Quercio	12	Max WS	SA_20_cr	20.72	135.47	137.10		137.56	0.007298	2.99	6.92	6.13	0.90
Quercio	11	Max WS	SA_200_cr	33.57	135.31	137.66		138.02	0.004544	2.68	12.53	7.69	0.67
Quercio	11	Max WS	SA_100_cr	31.28	135.31	137.55		137.91	0.004697	2.66	11.75	7.48	0.68
Quercio	11	Max WS	SA_30_cr	23.19	135.31	137.21		137.53	0.004860	2.49	9.30	6.80	0.68
Quercio	11	Max WS	SA_20_cr	20.72	135.31	137.10		137.40	0.004878	2.42	8.55	6.57	0.68
Quercio	10	Max WS	SA_200_cr	33.49	135.05	137.44		137.79	0.004170	2.59	12.92	7.79	0.64

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	10	Max WS	SA_100_cr	31.06	135.05	137.32		137.67	0.004384	2.59	11.99	7.55	0.66
Quercio	10	Max WS	SA_30_cr	23.12	135.05	136.96		137.27	0.004752	2.47	9.36	6.81	0.67
Quercio	10	Max WS	SA_20_cr	20.67	135.05	136.84		137.14	0.004795	2.41	8.59	6.58	0.67
Quercio	09.1	Max WS	SA_200_cr	33.39	134.93	137.36		137.69	0.003945	2.54	13.16	7.85	0.63
Quercio	09.1	Max WS	SA_100_cr	31.06	134.93	137.23		137.56	0.004225	2.56	12.16	7.59	0.64
Quercio	09.1	Max WS	SA_30_cr	22.77	134.93	136.85		137.15	0.004538	2.42	9.41	6.83	0.66
Quercio	09.1	Max WS	SA_20_cr	20.51	134.93	136.73		137.02	0.004669	2.38	8.62	6.59	0.66
Quercio	09	Max WS	SA_200_cr	33.39	134.81	137.28		137.59	0.003659	2.47	13.53	7.95	0.60
Quercio	09	Max WS	SA_100_cr	30.91	134.81	137.15		137.46	0.003925	2.48	12.45	7.67	0.62
Quercio	09	Max WS	SA_30_cr	21.63	134.81	136.76		137.02	0.003820	2.24	9.66	6.90	0.60
Quercio	09	Max WS	SA_20_cr	19.59	134.81	136.63		136.89	0.004054	2.23	8.78	6.64	0.62
Quercio	08	Max WS	SA_200_cr	33.29	134.54	137.15		137.41	0.002943	2.27	14.64	8.22	0.54
Quercio	08	Max WS	SA_100_cr	30.90	134.54	136.99		137.26	0.003226	2.31	13.38	7.91	0.57
Quercio	08	Max WS	SA_30_cr	20.42	134.54	136.63		136.82	0.002581	1.91	10.69	7.20	0.50
Quercio	08	Max WS	SA_20_cr	17.98	134.54	136.50		136.67	0.002569	1.84	9.75	6.93	0.50
Quercio	07.1	Max WS	SA_200_cr	33.28	134.44	137.08		137.33	0.002807	2.23	14.90	8.30	0.53
Quercio	07.1	Max WS	SA_100_cr	30.75	134.44	136.91		137.18	0.003084	2.27	13.56	7.97	0.55
Quercio	07.1	Max WS	SA_30_cr	19.78	134.44	136.58		136.75	0.002229	1.79	11.03	7.30	0.47
Quercio	07.1	Max WS	SA_20_cr	17.42	134.44	136.45		136.60	0.002206	1.73	10.08	7.03	0.46
Quercio	07	Max WS	SA_200_cr	33.28	134.26	137.05		137.26	0.002286	2.07	16.08	8.54	0.48
Quercio	07	Max WS	SA_100_cr	30.74	134.26	136.88		137.10	0.002497	2.10	14.66	8.21	0.50
Quercio	07	Max WS	SA_30_cr	19.77	134.26	136.56		136.69	0.001712	1.63	12.15	7.57	0.41
Quercio	07	Max WS	SA_20_cr	17.42	134.26	136.43		136.55	0.001669	1.56	11.17	7.31	0.40
Quercio	06	Max WS	SA_200_cr	33.27	133.92	136.96		137.12	0.001809	1.80	18.45	10.39	0.43
Quercio	06	Max WS	SA_100_cr	30.74	133.92	136.78		136.95	0.001810	1.84	16.74	8.98	0.43
Quercio	06	Max WS	SA_30_cr	19.11	133.92	136.51		136.60	0.001008	1.32	14.43	8.17	0.32
Quercio	06	Max WS	SA_20_cr	16.81	133.92	136.37		136.46	0.000957	1.26	13.38	7.91	0.31
Quercio	05.8	Max WS	SA_200_cr	44.98	133.89	136.80		136.97	0.001392	1.83	24.59	10.18	0.38
Quercio	05.8	Max WS	SA_100_cr	40.62	133.89	136.66		136.81	0.001347	1.76	23.12	10.01	0.37
Quercio	05.8	Max WS	SA_30_cr	31.46	133.89	136.34		136.46	0.001211	1.57	19.99	9.63	0.35
Quercio	05.8	Max WS	SA_20_cr	28.03	133.89	136.22		136.33	0.001129	1.48	18.88	9.49	0.34

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	05.5	Max WS	SA_200_cr	44.98	133.85	136.35		136.96	0.007484	3.45	13.02	7.74	0.85
Quercio	05.5	Max WS	SA_100_cr	40.61	133.85	136.21		136.80	0.007596	3.39	11.97	7.41	0.85
Quercio	05.5	Max WS	SA_30_cr	31.46	133.85	135.92		136.43	0.007487	3.18	9.90	6.69	0.83
Quercio	05.5	Max WS	SA_20_cr	28.03	133.85	135.82		136.29	0.007065	3.02	9.27	6.46	0.81
Quercio	05	Max WS	SA_200_cr	44.98	133.46	136.35		136.73	0.003928	2.72	16.51	8.62	0.63
Quercio	05	Max WS	SA_100_cr	40.59	133.46	136.21		136.57	0.003910	2.65	15.31	8.32	0.62
Quercio	05	Max WS	SA_30_cr	31.46	133.46	135.92		136.22	0.003645	2.42	12.98	7.71	0.60
Quercio	05	Max WS	SA_20_cr	28.02	133.46	135.83		136.10	0.003332	2.28	12.31	7.52	0.57
Quercio	04.8	Max WS	SA_200_cr	44.98	133.44	136.31		136.67	0.003554	2.64	17.04	8.66	0.60
Quercio	04.8	Max WS	SA_100_cr	40.59	133.44	136.17		136.51	0.003519	2.56	15.84	8.40	0.60
Quercio	04.8	Max WS	SA_30_cr	31.46	133.44	135.89		136.16	0.003242	2.33	13.52	7.85	0.57
Quercio	04.8	Max WS	SA_20_cr	28.02	133.44	135.80		136.04	0.002936	2.18	12.87	7.69	0.54
Quercio	04.6	Max WS	SA_200_cr	44.97	133.44	136.02		136.60	0.006789	3.37	13.35	7.09	0.78
Quercio	04.6	Max WS	SA_100_cr	40.59	133.44	135.90		136.44	0.006620	3.25	12.49	6.91	0.77
Quercio	04.6	Max WS	SA_30_cr	31.46	133.44	135.67		136.09	0.005665	2.87	10.95	6.57	0.71
Quercio	04.6	Max WS	SA_20_cr	28.02	133.44	135.63		135.98	0.004814	2.63	10.67	6.50	0.65
Quercio	04.5	Max WS	SA_200_cr	44.97	133.43	136.07		136.49	0.004489	2.87	15.68	8.58	0.68
Quercio	04.5	Max WS	SA_100_cr	40.59	133.43	135.94		136.33	0.004462	2.79	14.56	8.32	0.67
Quercio	04.5	Max WS	SA_30_cr	31.46	133.43	135.69		136.01	0.004022	2.51	12.53	7.81	0.63
Quercio	04.5	Max WS	SA_20_cr	28.01	133.43	135.64		135.91	0.003453	2.30	12.17	7.72	0.59
Quercio	04	Max WS	SA_200_cr	44.97	133.43	135.97	136.10	137.44	0.007544	5.38	8.36	8.37	1.08
Quercio	04	Max WS	SA_100_cr	40.59	133.43	135.84	135.92	137.17	0.007292	5.11	7.94	8.12	1.05
Quercio	04	Max WS	SA_30_cr	31.46	133.43	135.54	135.53	136.58	0.006776	4.52	6.96	7.52	0.99
Quercio	04	Max WS	SA_20_cr	28.02	133.43	135.41	135.38	136.35	0.006672	4.29	6.53	7.26	0.97
Quercio	03.6	Max WS	SA_200_cr	44.97	133.43	135.96	135.86	137.07	0.009516	4.68	9.61	3.80	0.94
Quercio	03.6	Max WS	SA_100_cr	40.59	133.43	135.83	135.69	136.84	0.008848	4.45	9.13	3.80	0.92
Quercio	03.6	Max WS	SA_30_cr	31.46	133.43	135.56	135.34	136.33	0.007287	3.89	8.09	3.80	0.85
Quercio	03.6	Max WS	SA_20_cr	28.01	133.43	135.47	135.20	136.13	0.006469	3.62	7.75	3.80	0.81
Quercio	03.5			Bridge									

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

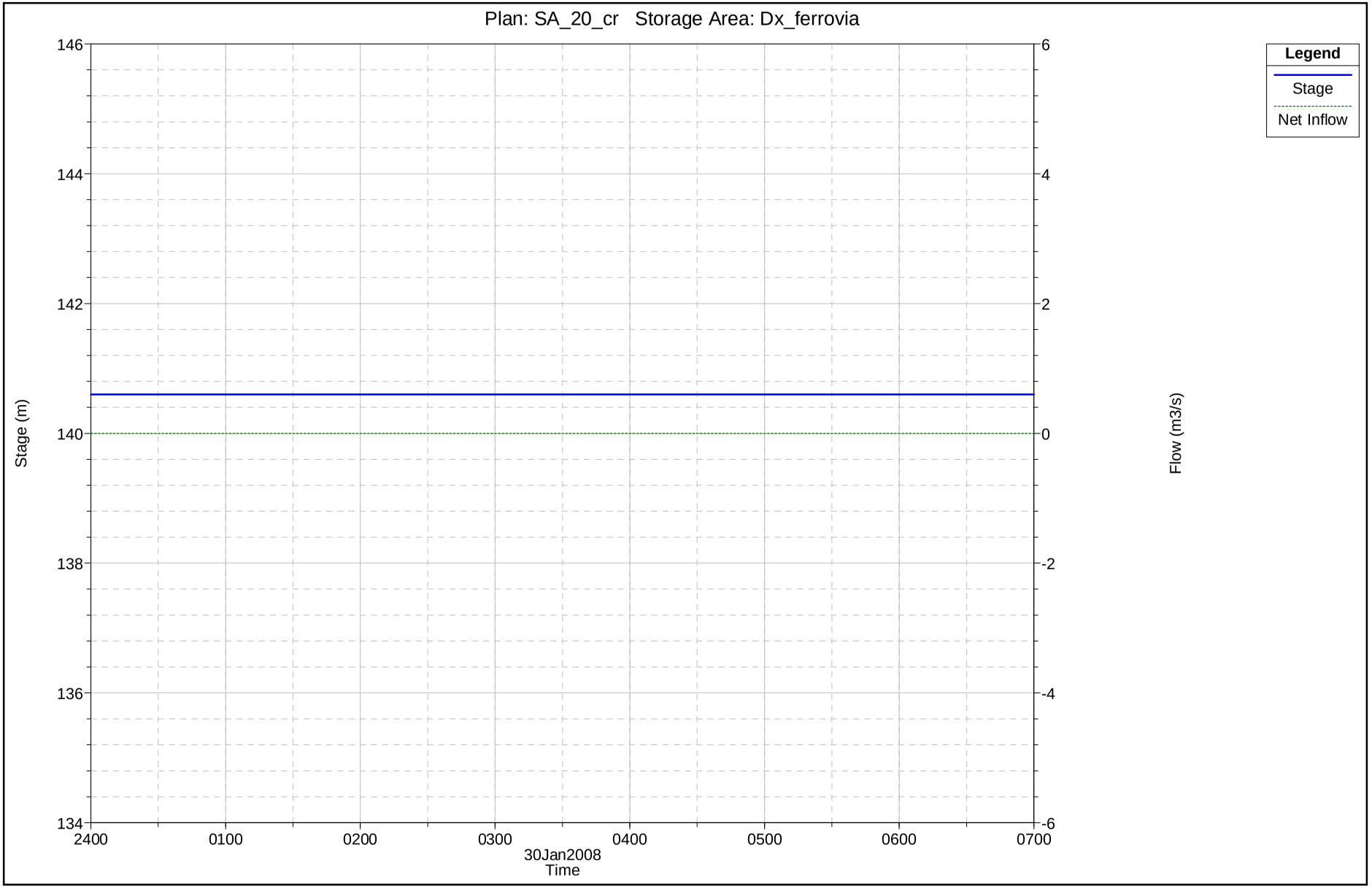
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	03.4	Max WS	SA_200_cr	44.97	133.43	135.94	135.86	137.07	0.009662	4.71	9.55	3.80	0.95
Quercio	03.4	Max WS	SA_100_cr	40.59	133.43	135.81		136.84	0.009010	4.48	9.06	3.80	0.93
Quercio	03.4	Max WS	SA_30_cr	31.45	133.43	135.54		136.32	0.007443	3.92	8.02	3.80	0.86
Quercio	03.4	Max WS	SA_20_cr	28.01	133.43	135.45		136.13	0.006599	3.64	7.69	3.80	0.82
Quercio	03	Max WS	SA_200_cr	44.96	133.43	136.43		136.72	0.002950	2.41	18.70	10.29	0.55
Quercio	03	Max WS	SA_100_cr	40.59	133.43	136.31		136.58	0.002632	2.30	17.67	8.74	0.52
Quercio	03	Max WS	SA_30_cr	31.45	133.43	136.00		136.22	0.002439	2.10	14.99	8.09	0.49
Quercio	03	Max WS	SA_20_cr	28.02	133.43	135.87		136.07	0.002349	2.01	13.96	7.86	0.48
Quercio	2.9			Lat Struct									
Quercio	2.8			Lat Struct									
Quercio	02	Max WS	SA_200_cr	44.88	133.43	135.82		136.49	0.008276	3.64	12.33	7.09	0.88
Quercio	02	Max WS	SA_100_cr	40.56	133.43	135.76		136.35	0.007409	3.40	11.92	7.00	0.83
Quercio	02	Max WS	SA_30_cr	31.45	133.43	135.51		135.99	0.006704	3.07	10.25	6.60	0.79
Quercio	02	Max WS	SA_20_cr	28.01	133.43	135.42		135.85	0.006266	2.90	9.65	6.45	0.76
Quercio	01.9	Max WS	SA_200_cr	7.99	133.42	135.75		135.78	0.000318	0.70	11.48	6.84	0.17
Quercio	01.9	Max WS	SA_100_cr	40.59	133.42	135.66	135.58	136.37	0.009658	3.75	10.82	6.67	0.94
Quercio	01.9	Max WS	SA_30_cr	31.45	133.42	135.40		136.00	0.009165	3.44	9.13	6.25	0.91
Quercio	01.9	Max WS	SA_20_cr	28.01	133.42	135.30		135.85	0.008741	3.28	8.53	6.09	0.89
Quercio	01.8	Max WS	SA_200_cr	7.99	133.41	135.76		135.78	0.000255	0.64	12.57	7.71	0.16
Quercio	01.8	Max WS	SA_100_cr	32.51	133.41	135.67		136.05	0.004919	2.73	11.89	7.53	0.69
Quercio	01.8	Max WS	SA_30_cr	31.45	133.41	135.42		135.91	0.007227	3.13	10.06	7.03	0.83
Quercio	01.8	Max WS	SA_20_cr	28.01	133.41	135.33		135.78	0.006824	2.97	9.44	6.85	0.81
Quercio	01.7	Max WS	SA_200_cr	7.99	133.41	135.76		135.78	0.000250	0.61	13.07	8.41	0.16
Quercio	01.7	Max WS	SA_100_cr	32.51	133.41	135.67		136.02	0.004876	2.64	12.32	8.22	0.69
Quercio	01.7	Max WS	SA_30_cr	31.45	133.41	135.37		135.88	0.008274	3.16	9.94	7.61	0.88
Quercio	01.7	Max WS	SA_20_cr	28.01	133.41	135.27		135.74	0.008119	3.04	9.21	7.41	0.87
Quercio	01.6	Max WS	SA_200_cr	7.99	133.40	135.75		135.78	0.000306	0.69	11.65	6.91	0.17
Quercio	01.6	Max WS	SA_100_cr	40.59	133.40	135.57	135.56	136.34	0.010695	3.90	10.42	6.61	0.99
Quercio	01.6	Max WS	SA_30_cr	31.45	133.40	135.29	135.27	135.96	0.010706	3.65	8.62	6.14	0.98
Quercio	01.6	Max WS	SA_20_cr	28.01	133.40	135.18	135.15	135.81	0.010545	3.52	7.96	5.96	0.97

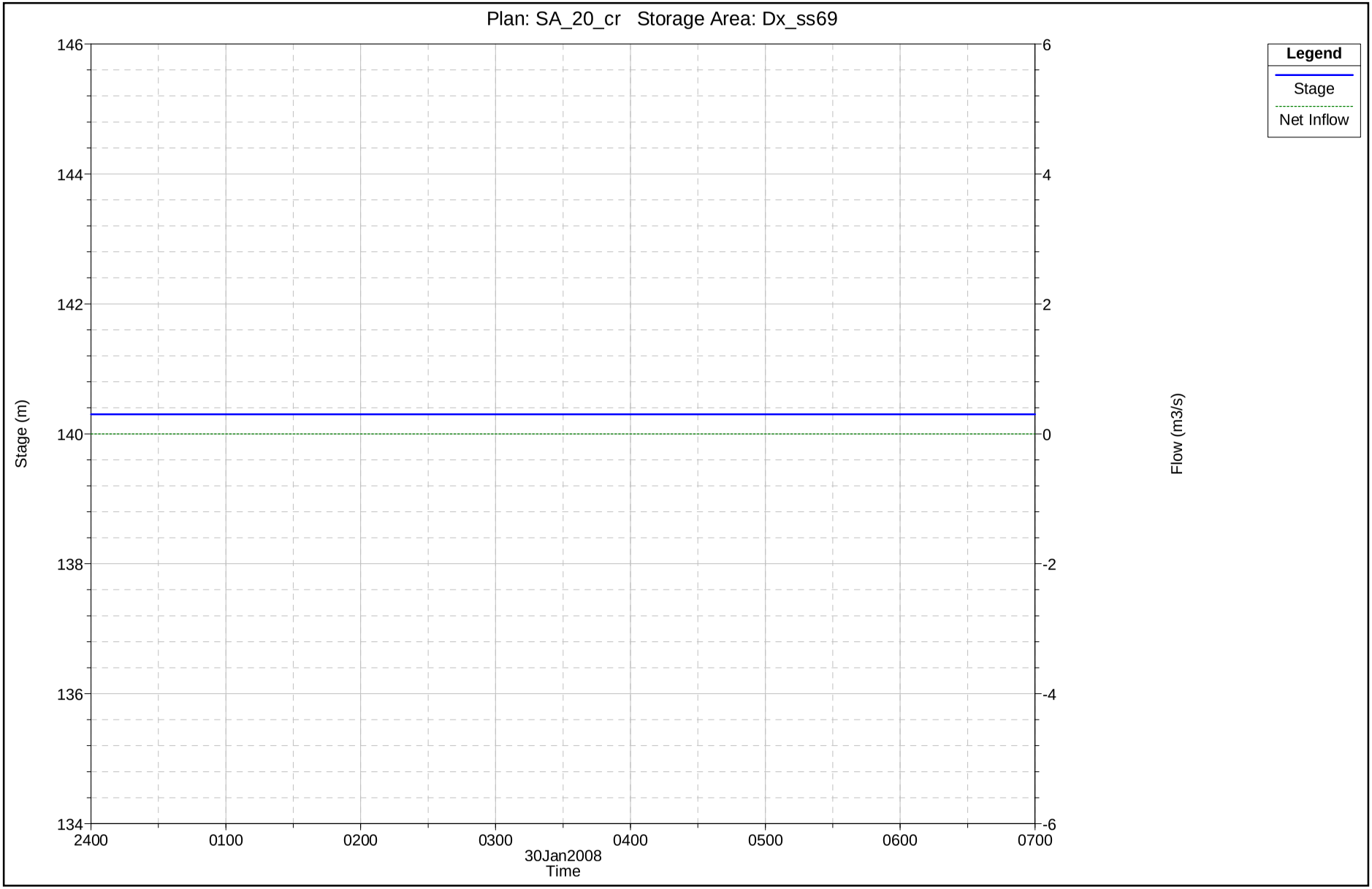
HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

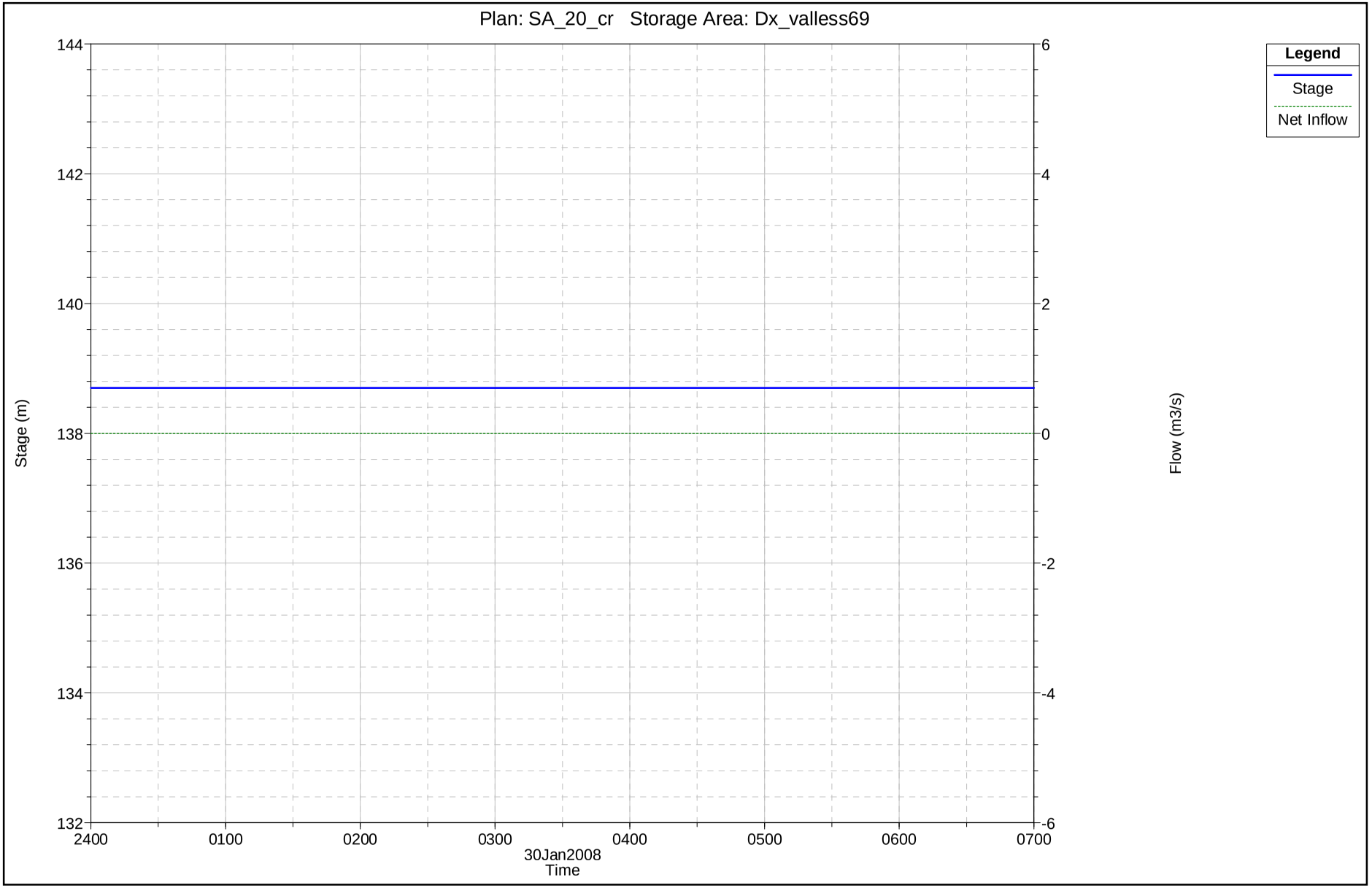
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	01.5	Max WS	SA_200_cr	7.99	133.40	135.75		135.77	0.000309	0.69	11.61	6.88	0.17
Quercio	01.5	Max WS	SA_100_cr	40.59	133.40	135.51	135.56	136.35	0.011944	4.06	10.00	6.48	1.04
Quercio	01.5	Max WS	SA_30_cr	31.45	133.40	135.23	135.27	135.97	0.012133	3.82	8.23	6.02	1.04
Quercio	01.5	Max WS	SA_20_cr	28.01	133.40	135.12	135.15	135.81	0.012000	3.69	7.59	5.84	1.03
Quercio	01.4	Max WS	SA_200_cr	7.99	133.40	135.75		135.77	0.000305	0.68	11.67	6.94	0.17
Quercio	01.4	Max WS	SA_100_cr	40.59	133.40	135.44	135.56	136.35	0.013307	4.22	9.61	6.43	1.10
Quercio	01.4	Max WS	SA_30_cr	31.45	133.40	135.16	135.27	135.97	0.013805	4.00	7.86	5.95	1.11
Quercio	01.4	Max WS	SA_20_cr	28.01	133.40	135.05	135.15	135.81	0.013771	3.88	7.23	5.77	1.11
Quercio	01.3	Max WS	SA_200_cr	7.99	133.39	135.75		135.77	0.000295	0.68	11.83	7.04	0.17
Quercio	01.3	Max WS	SA_100_cr	40.59	133.39	135.36	135.54	136.34	0.014763	4.38	9.26	6.38	1.16
Quercio	01.3	Max WS	SA_30_cr	31.44	133.39	135.08	135.25	135.97	0.015752	4.19	7.50	5.89	1.19
Quercio	01.3	Max WS	SA_20_cr	28.01	133.39	134.97	135.13	135.82	0.015852	4.07	6.87	5.71	1.19
Quercio	01.2	Max WS	SA_200_cr	7.99	133.39	135.75		135.77	0.000294	0.67	11.85	7.06	0.17
Quercio	01.2	Max WS	SA_100_cr	40.59	133.39	135.28	135.54	136.38	0.017312	4.64	8.74	6.25	1.25
Quercio	01.2	Max WS	SA_30_cr	31.44	133.39	134.98	135.25	136.02	0.019295	4.52	6.96	5.75	1.31
Quercio	01.2	Max WS	SA_20_cr	28.01	133.39	134.87	135.13	135.87	0.019748	4.41	6.35	5.56	1.32
Quercio	01.1	Max WS	SA_200_cr	7.97	133.38	135.74		135.77	0.000415	0.70	11.43	8.61	0.19
Quercio	01.1	Max WS	SA_100_cr	7.97	133.38	135.24		135.29	0.000847	0.99	8.05	5.76	0.27
Quercio	01.1	Max WS	SA_30_cr	31.44	133.38	134.85	135.31	136.28	0.029741	5.30	5.94	5.07	1.56
Quercio	01.1	Max WS	SA_20_cr	28.01	133.38	134.74	135.17	136.12	0.031146	5.22	5.37	4.91	1.59
Quercio	01	Max WS	SA_200_cr	7.97	133.38	135.74	134.22	135.76	0.000417	0.70	11.41	8.61	0.19
Quercio	01	Max WS	SA_100_cr	7.97	133.38	135.24	134.22	135.29	0.000854	0.99	8.02	5.75	0.27
Quercio	01	Max WS	SA_30_cr	7.99	133.38	134.33	134.22	134.60	0.008474	2.29	3.49	4.34	0.82
Quercio	01	Max WS	SA_20_cr	7.99	133.38	134.33	134.22	134.60	0.008474	2.29	3.49	4.34	0.82

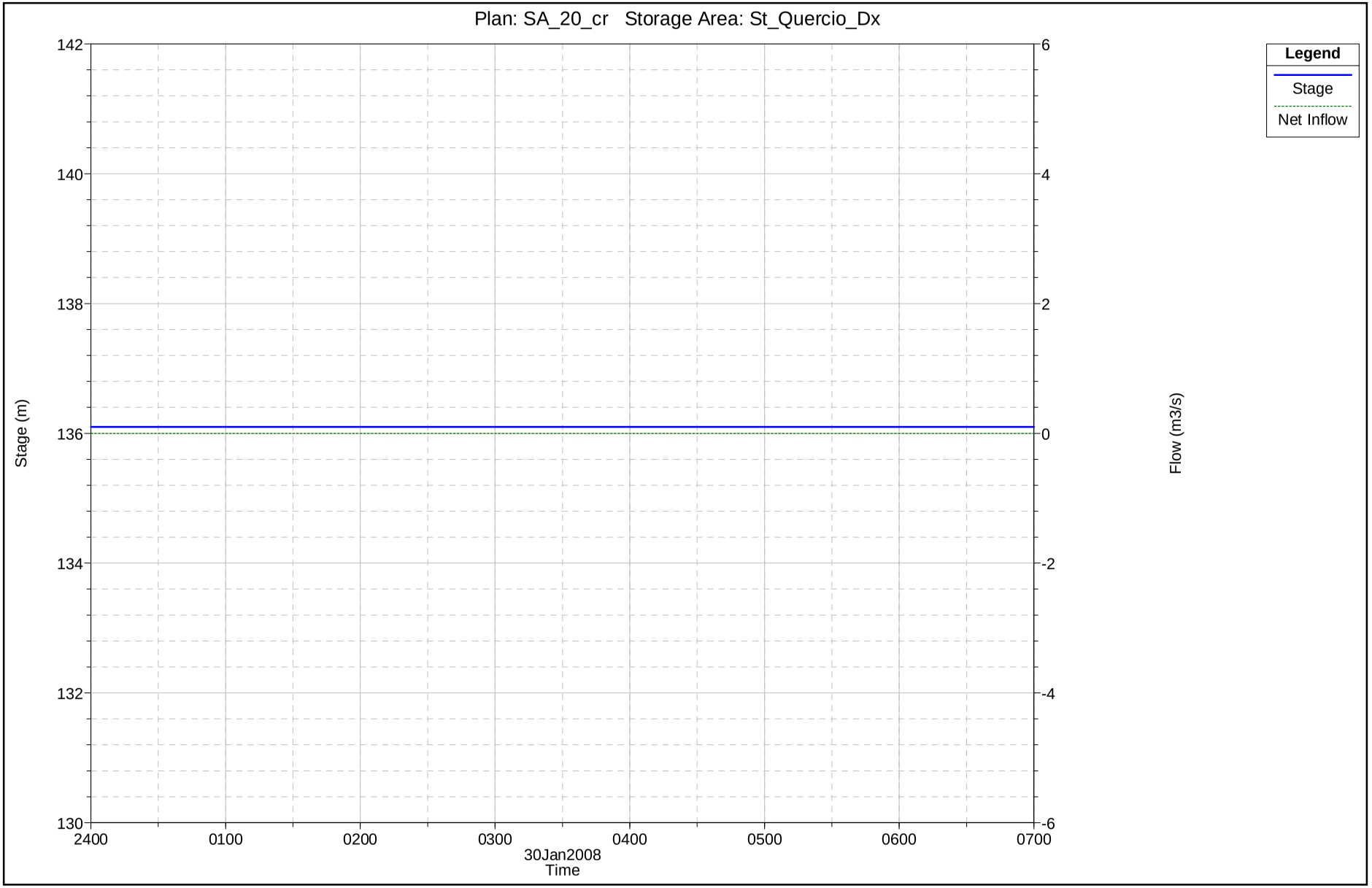
HEC-RAS Profile: Max WS

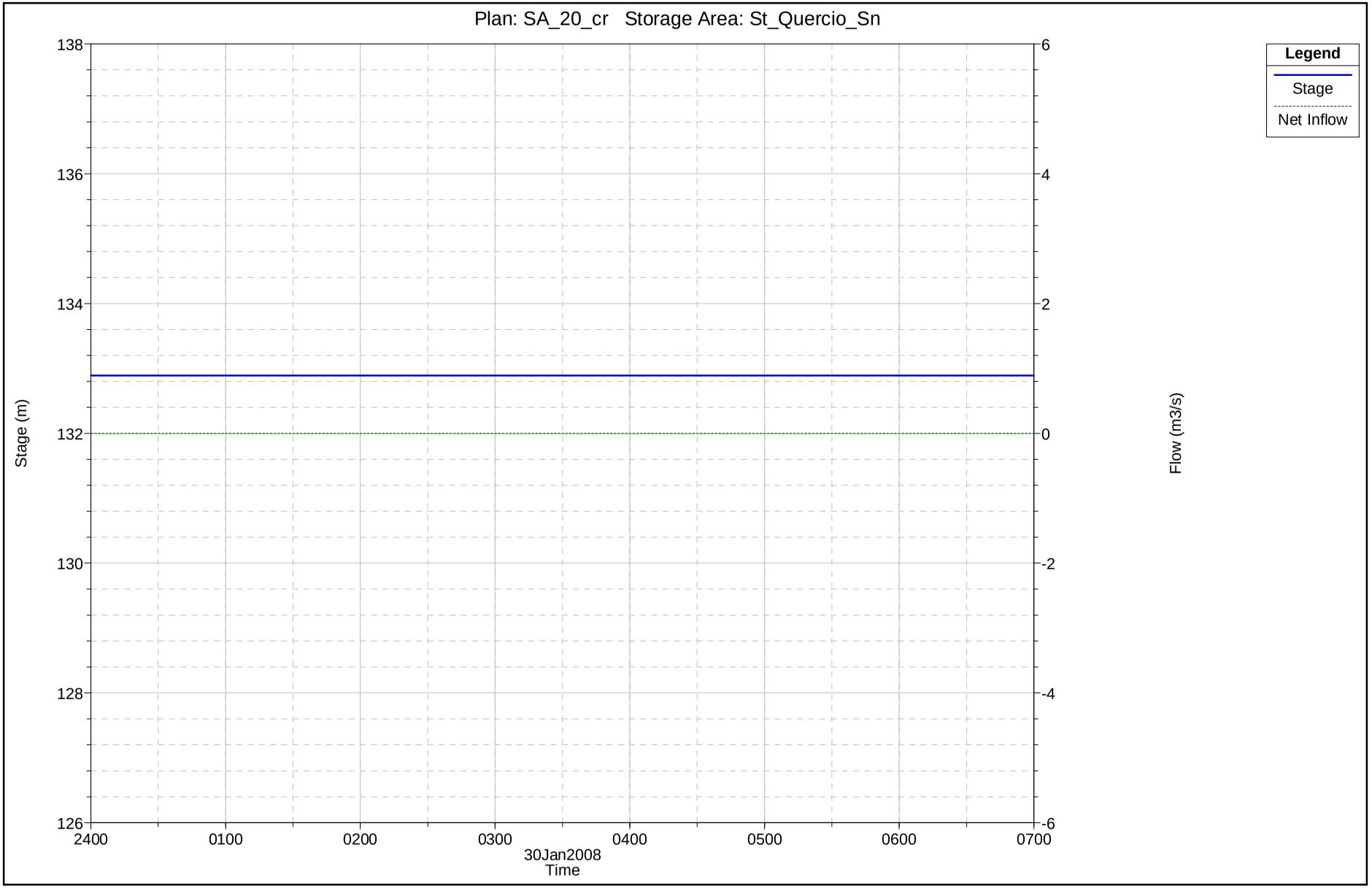
Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
Dx_ferrovia	Max WS	SA_200_cr	140.60	140.60	0.05	12.00	0.02
Dx_ferrovia	Max WS	SA_100_cr	140.60	140.60	0.00	12.00	0.00
Dx_ferrovia	Max WS	SA_30_cr	140.60	140.60	0.00	12.00	0.00
Dx_ferrovia	Max WS	SA_20_cr	140.60	140.60	0.00	12.00	0.00
Dx_ss69	Max WS	SA_200_cr	140.37	140.30	0.20	2.00	0.15
Dx_ss69	Max WS	SA_100_cr	140.30	140.30	0.00	2.00	0.00
Dx_ss69	Max WS	SA_30_cr	140.30	140.30	0.00	2.00	0.00
Dx_ss69	Max WS	SA_20_cr	140.30	140.30	0.00	2.00	0.00
Dx_valless69	Max WS	SA_200_cr	138.80	138.70	1.27	11.60	1.21
Dx_valless69	Max WS	SA_100_cr	138.70	138.70	0.00	11.60	0.00
Dx_valless69	Max WS	SA_30_cr	138.70	138.70	0.00	11.60	0.00
Dx_valless69	Max WS	SA_20_cr	138.70	138.70	0.00	11.60	0.00
St_Quercio_Dx	Max WS	SA_200_cr	136.27	136.10	0.49	3.24	0.57
St_Quercio_Dx	Max WS	SA_100_cr	136.10	136.10	0.02	3.24	0.01
St_Quercio_Dx	Max WS	SA_30_cr	136.10	136.10	0.00	3.24	0.00
St_Quercio_Dx	Max WS	SA_20_cr	136.10	136.10	0.00	3.24	0.00
St_Quercio_Sn	Max WS	SA_200_cr	134.02	132.89	0.49	23.15	0.71
St_Quercio_Sn	Max WS	SA_100_cr	133.04	132.89	0.02	0.08	0.00
St_Quercio_Sn	Max WS	SA_30_cr	132.89	132.89	0.00	0.01	0.00
St_Quercio_Sn	Max WS	SA_20_cr	132.89	132.89	0.00	0.01	0.00

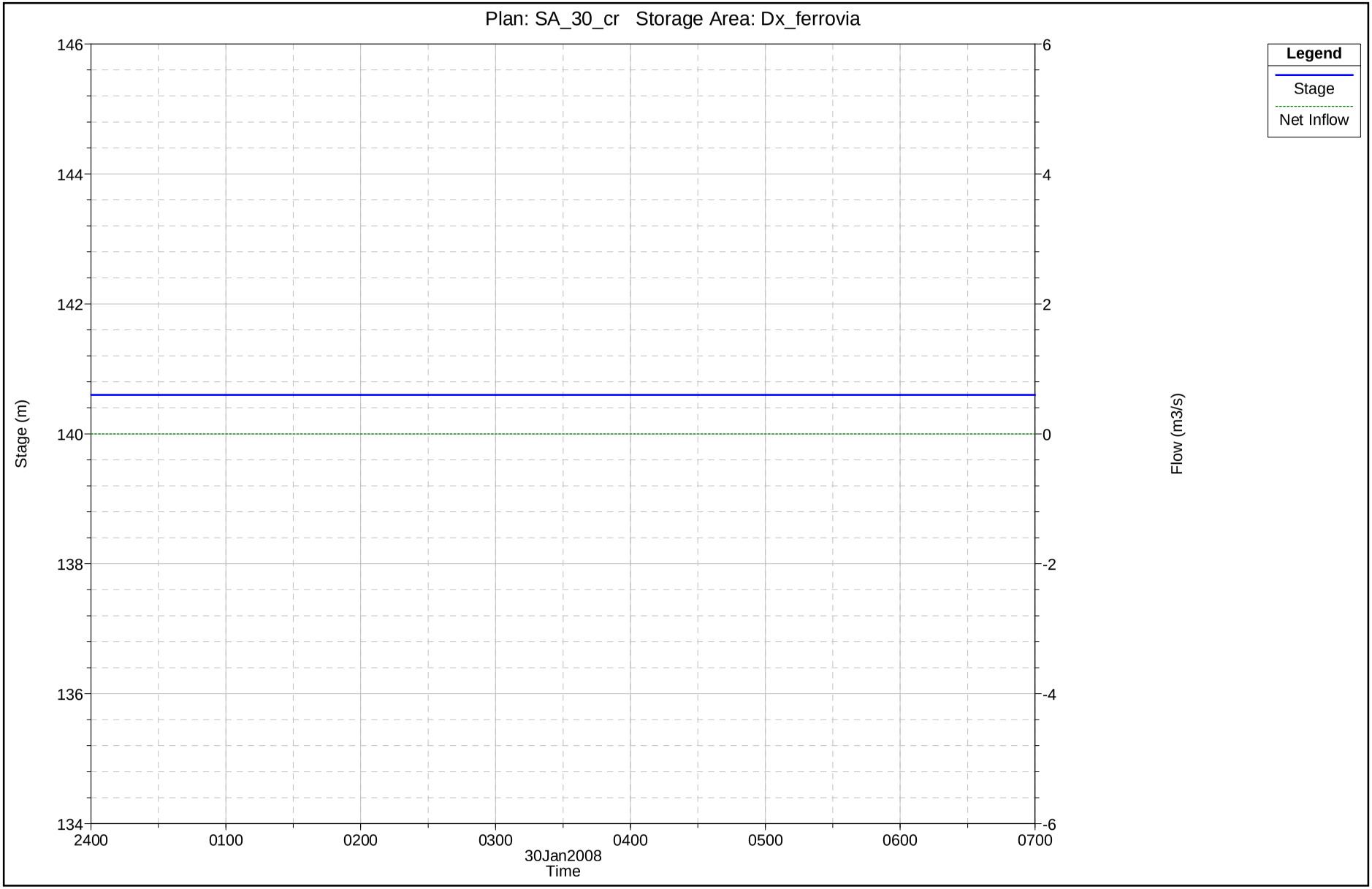

Plan: SA_20_cr Storage Area: Dx_ferrovia
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
146
144
142
140
138
136
134
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

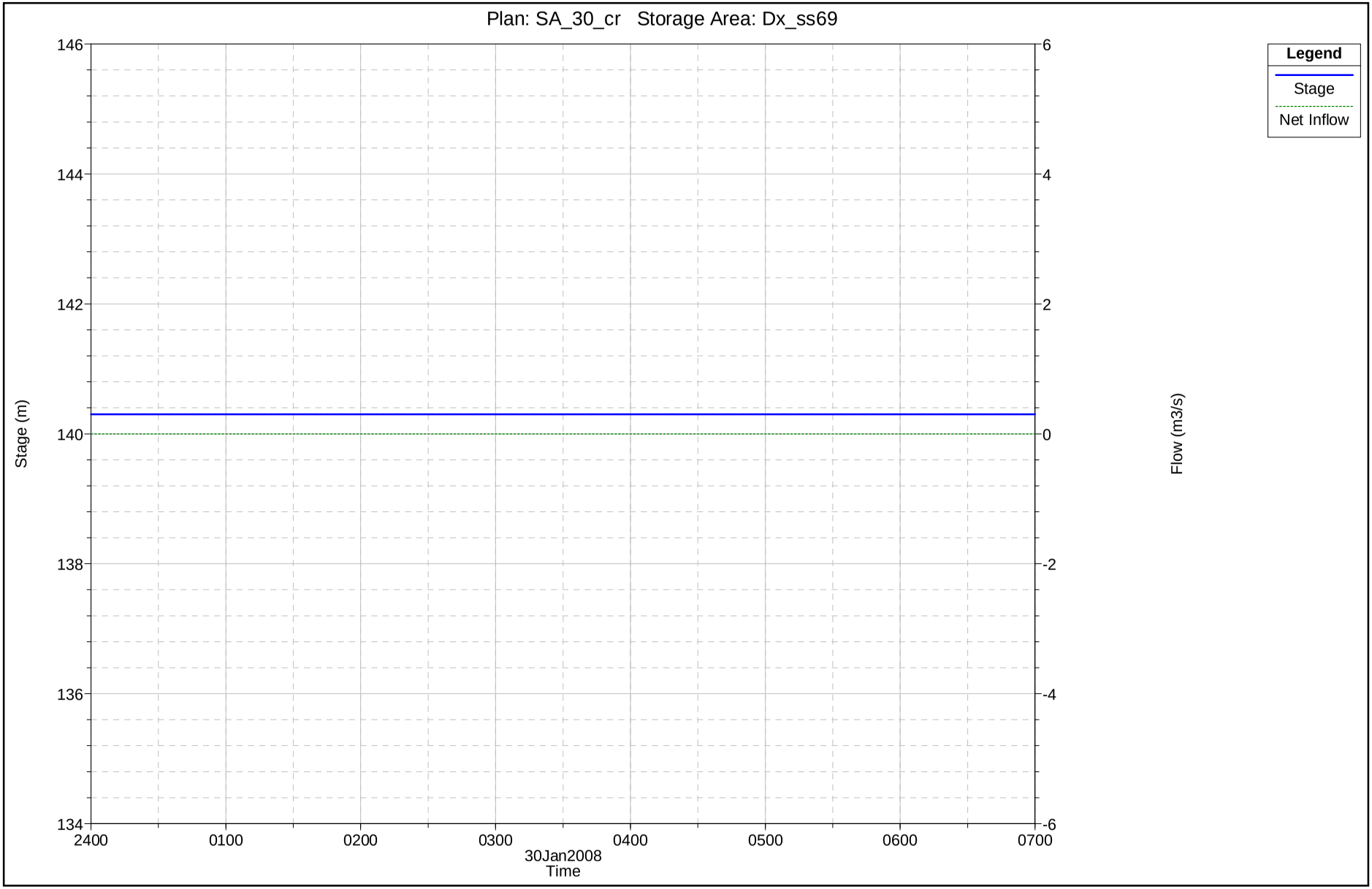

Plan: SA_20_cr Storage Area: Dx_ss69
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
146
144
142
140
138
136
134
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

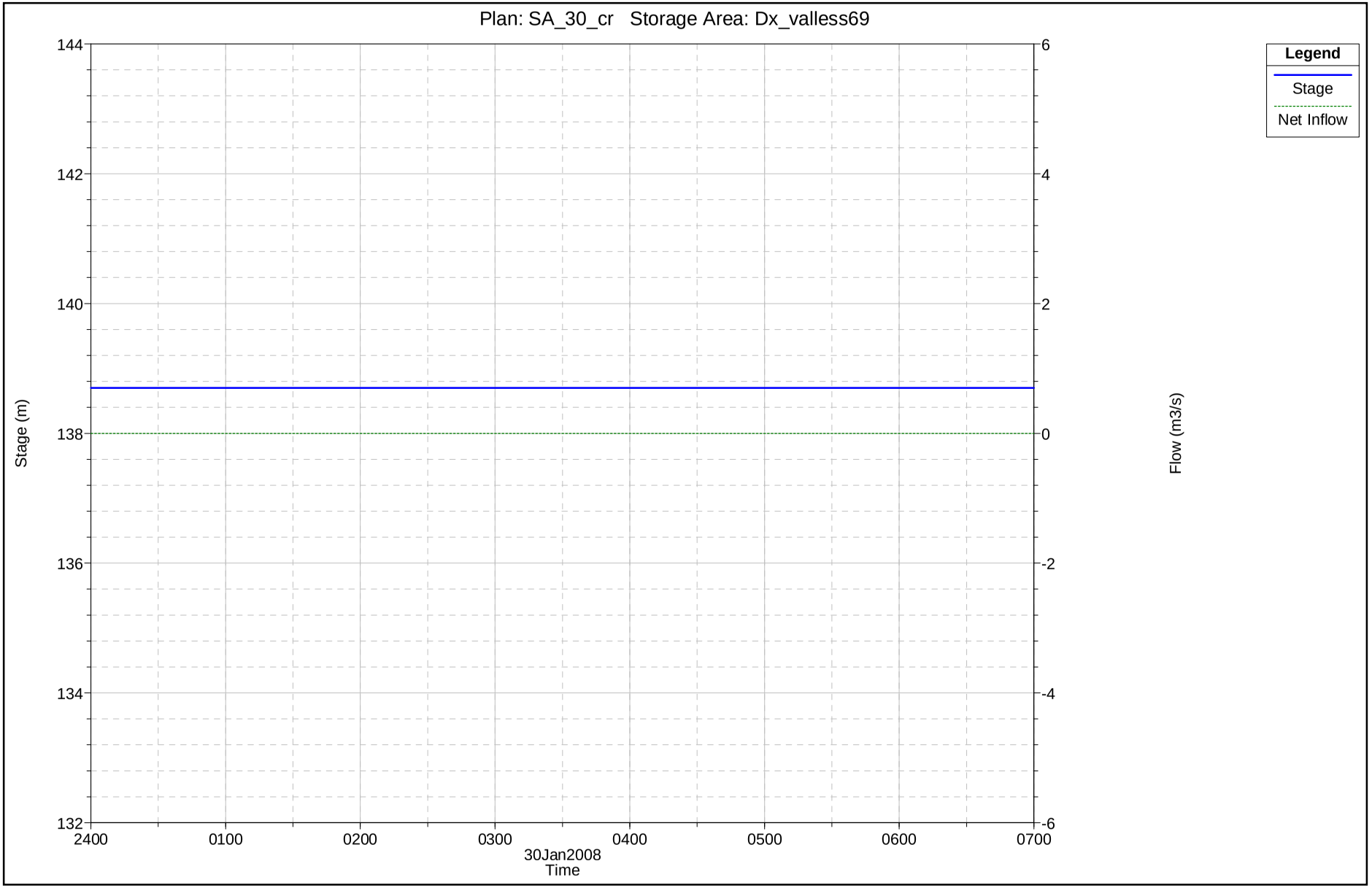

Plan: SA_20_cr Storage Area: Dx_valless69
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
144
142
140
138
136
134
132
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

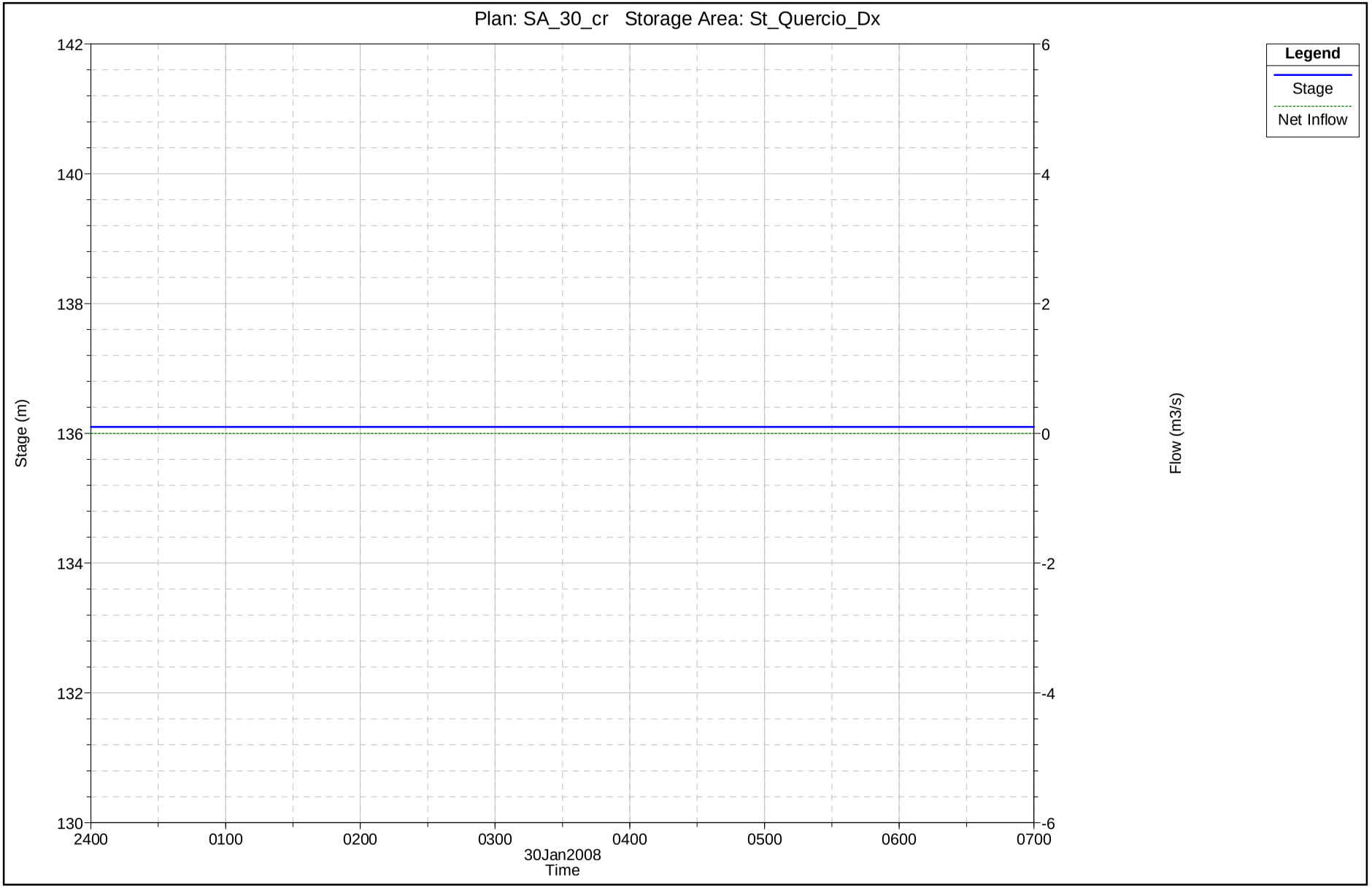

Plan: SA_20_cr Storage Area: St_Quercio_Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142
140
138
136
134
132
130
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

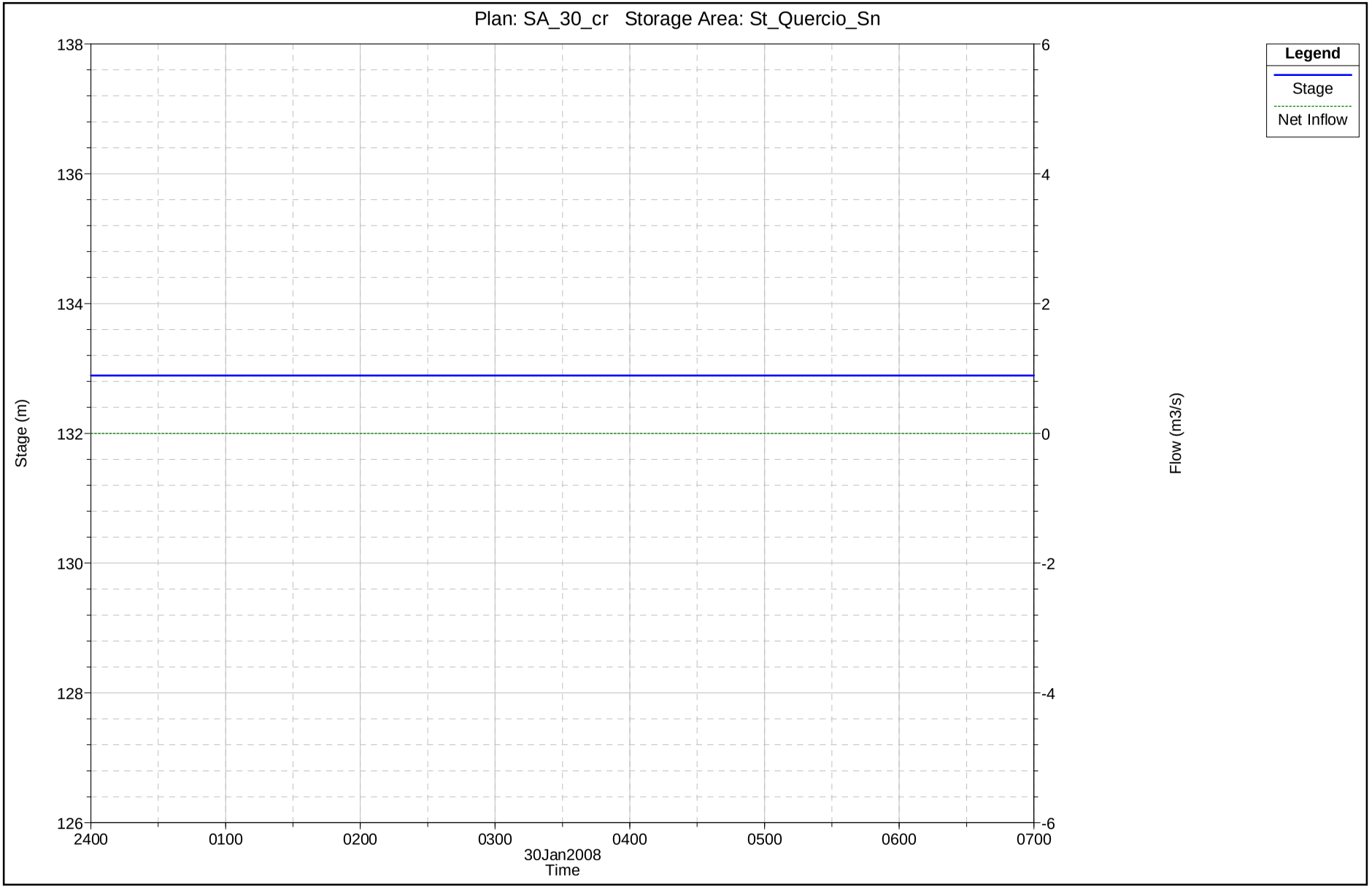

Plan: SA_20_cr Storage Area: St_Quercio_Sn
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
138
136
134
132
130
128
126
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

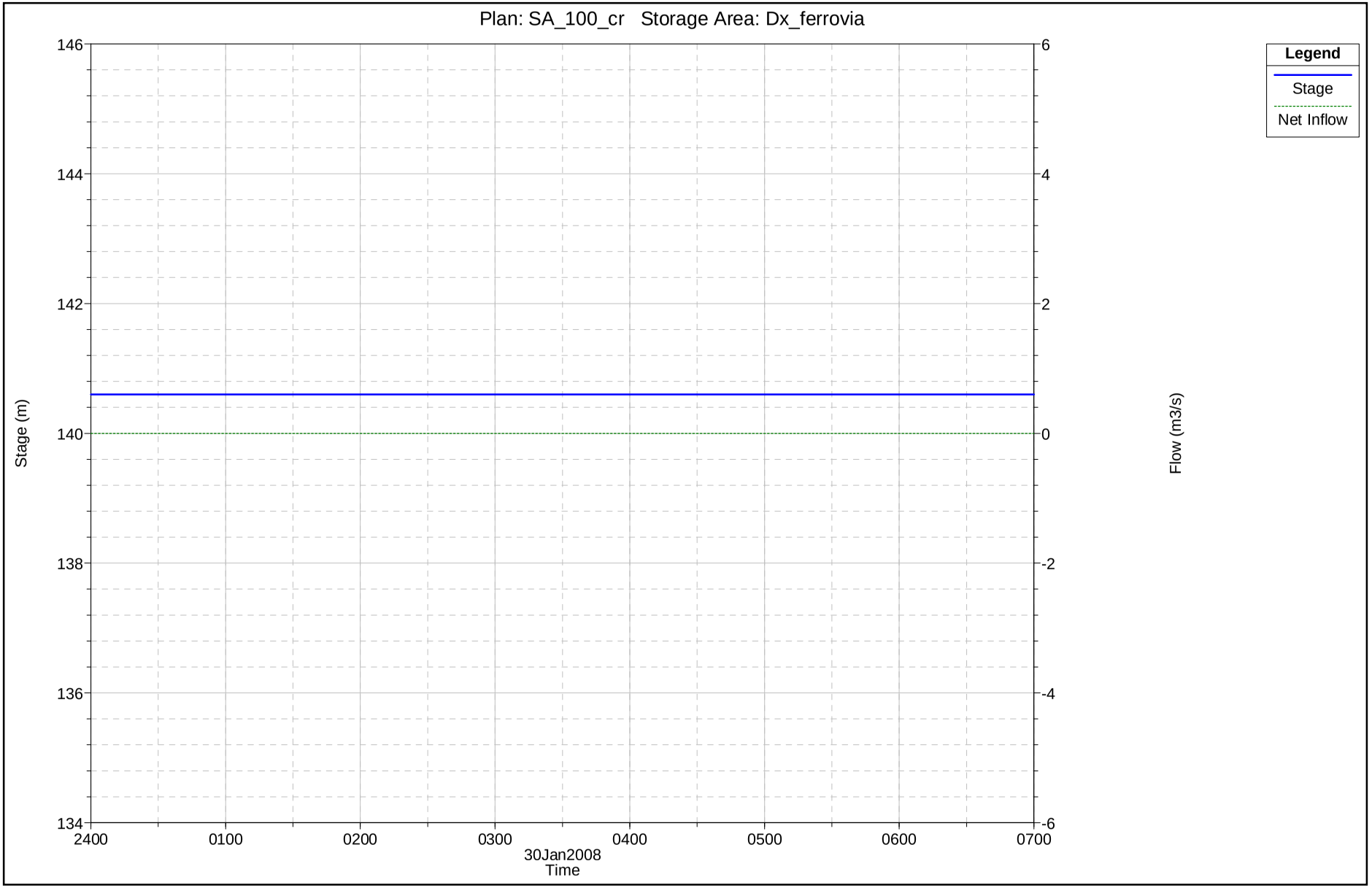

Plan: SA_30_cr Storage Area: Dx_ferrovia
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
146
144
142
140
138
136
134
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

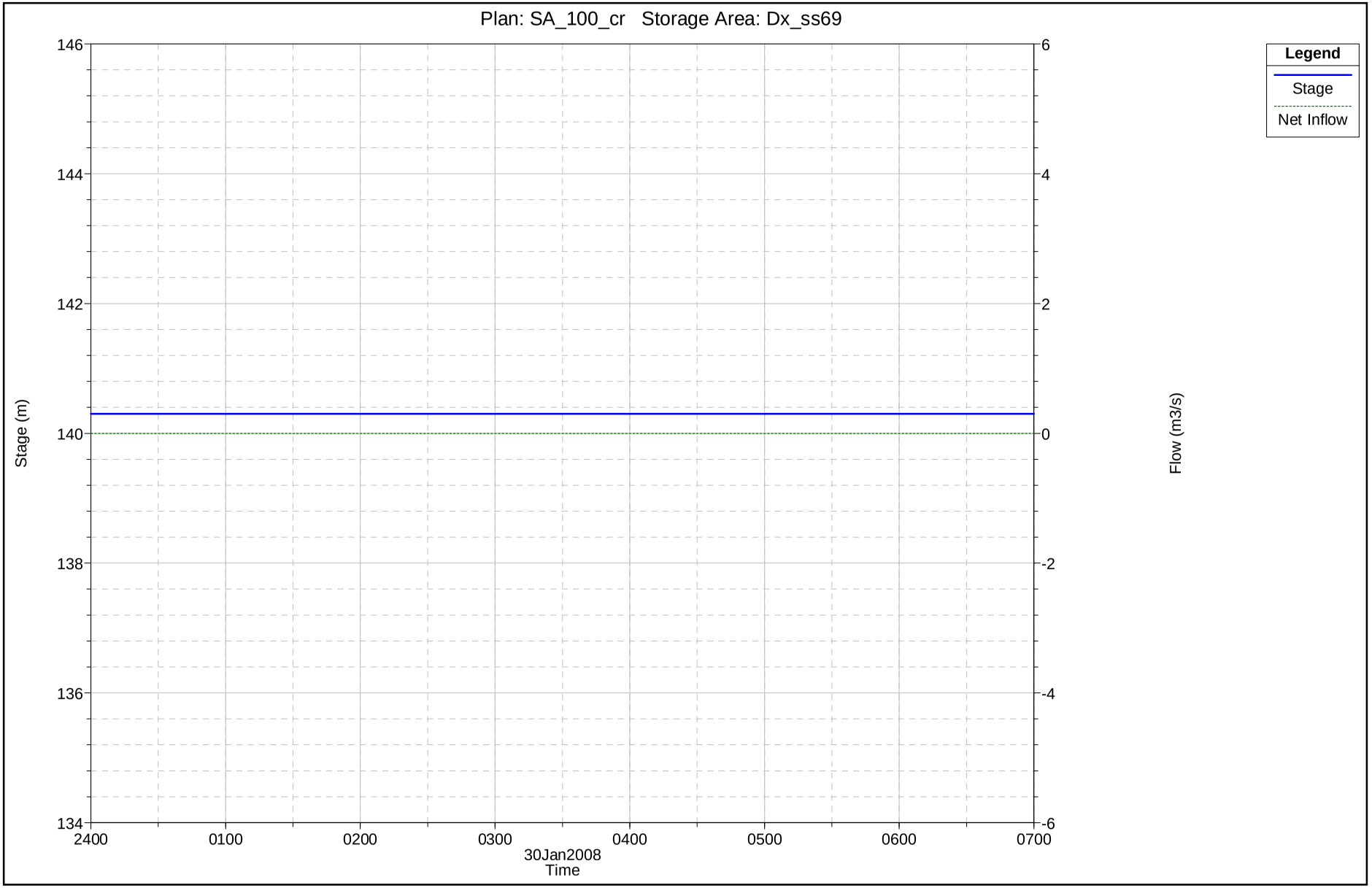

Plan: SA_30_cr Storage Area: Dx_ss69
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
146
144
142
140
138
136
134
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

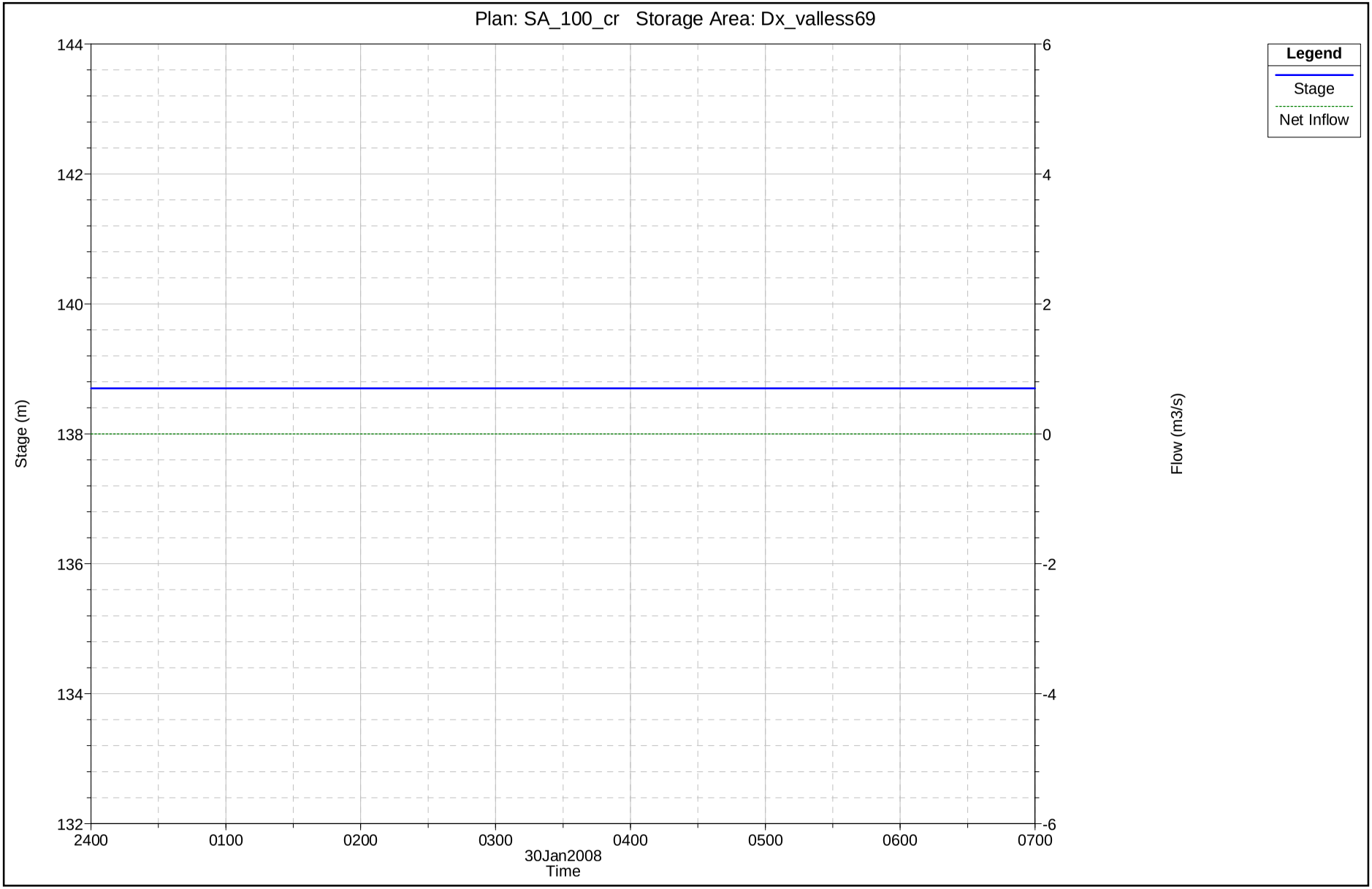

Plan: SA_30_cr Storage Area: Dx_valless69
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
144
142
140
138
136
134
132
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

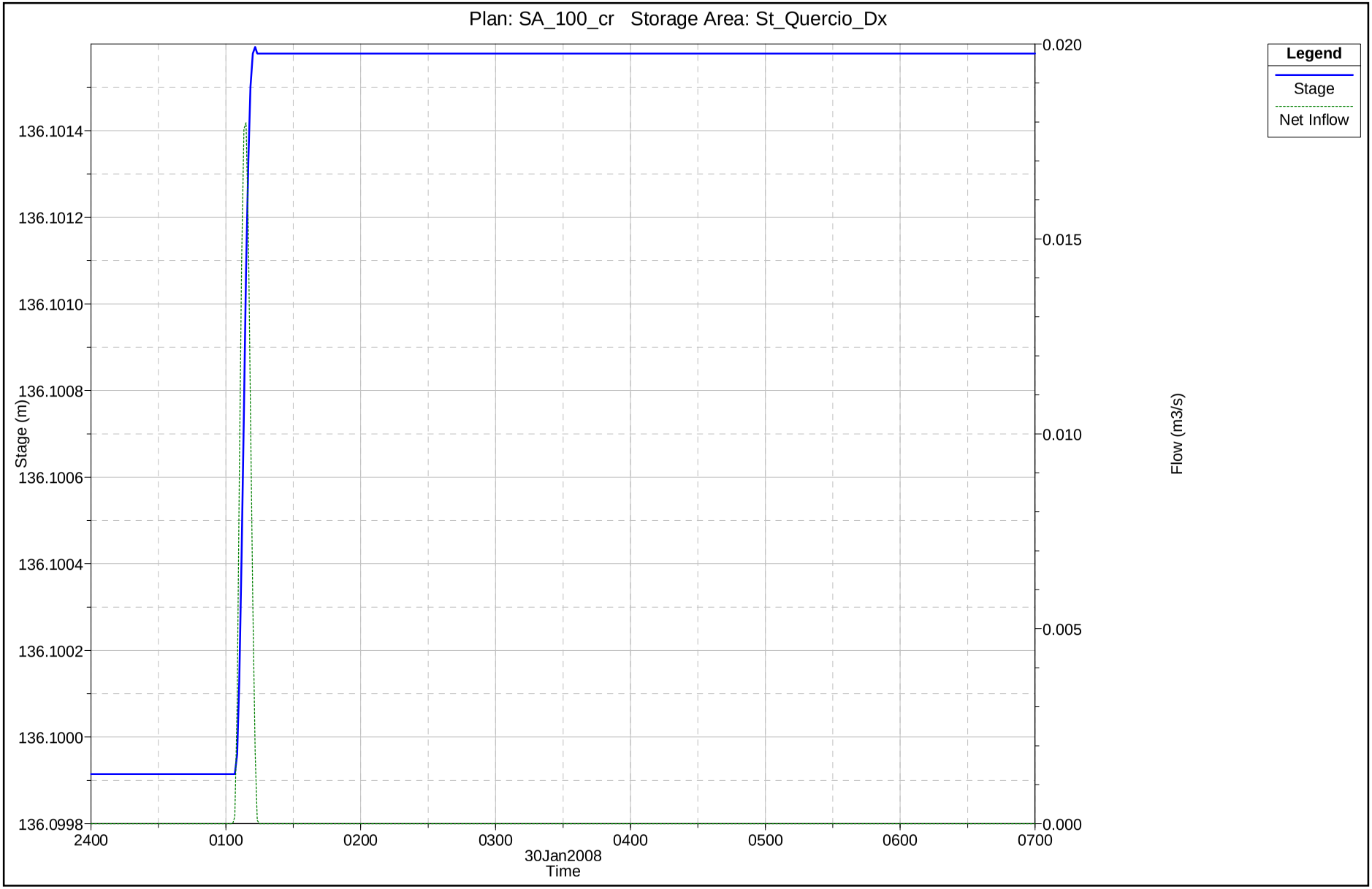

Plan: SA_30_cr Storage Area: St_Quercio_Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142
140
138
136
134
132
130
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

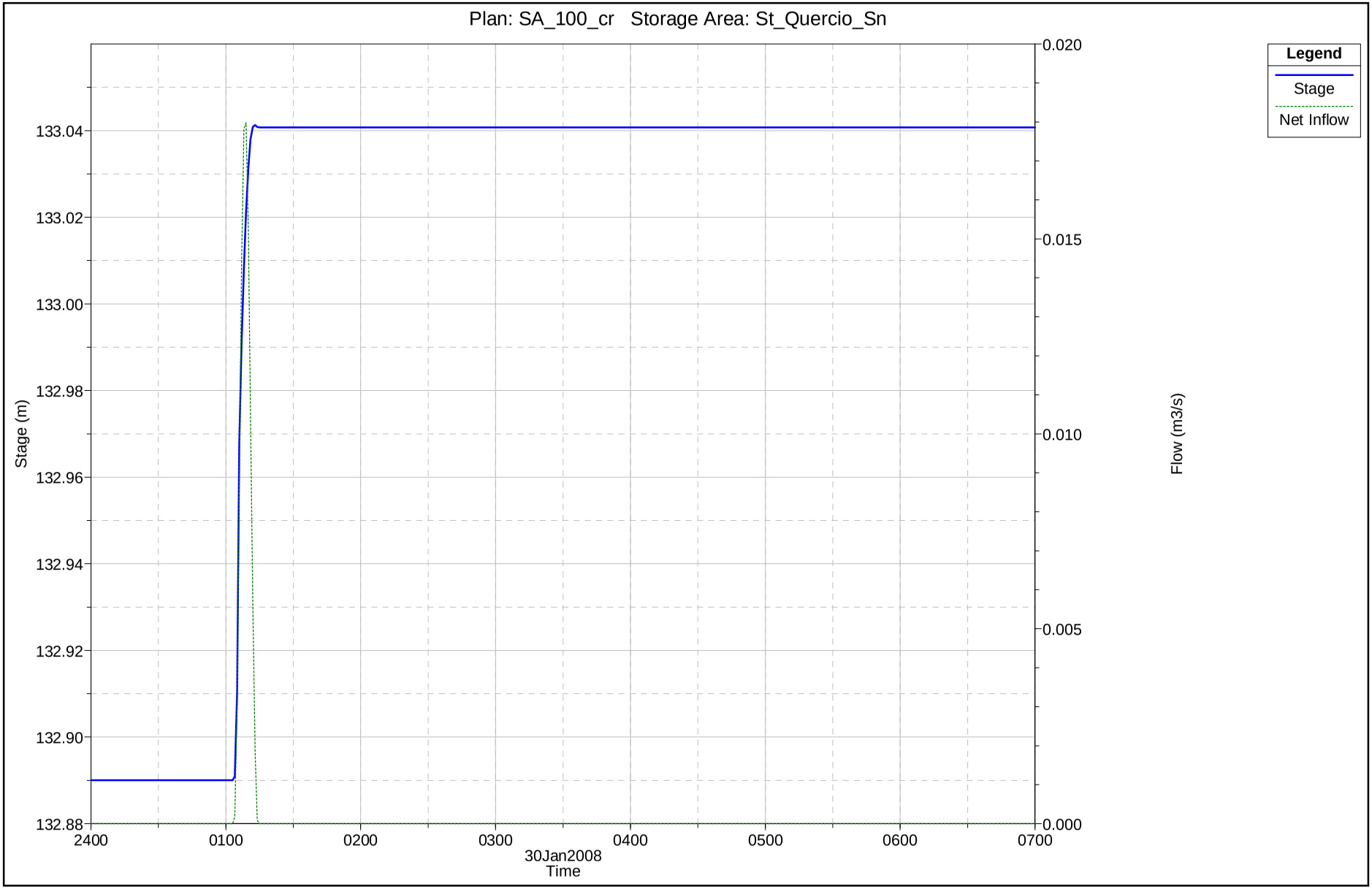

Plan: SA_30_cr Storage Area: St_Quercio_Sn
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
138
136
134
132
130
128
126
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

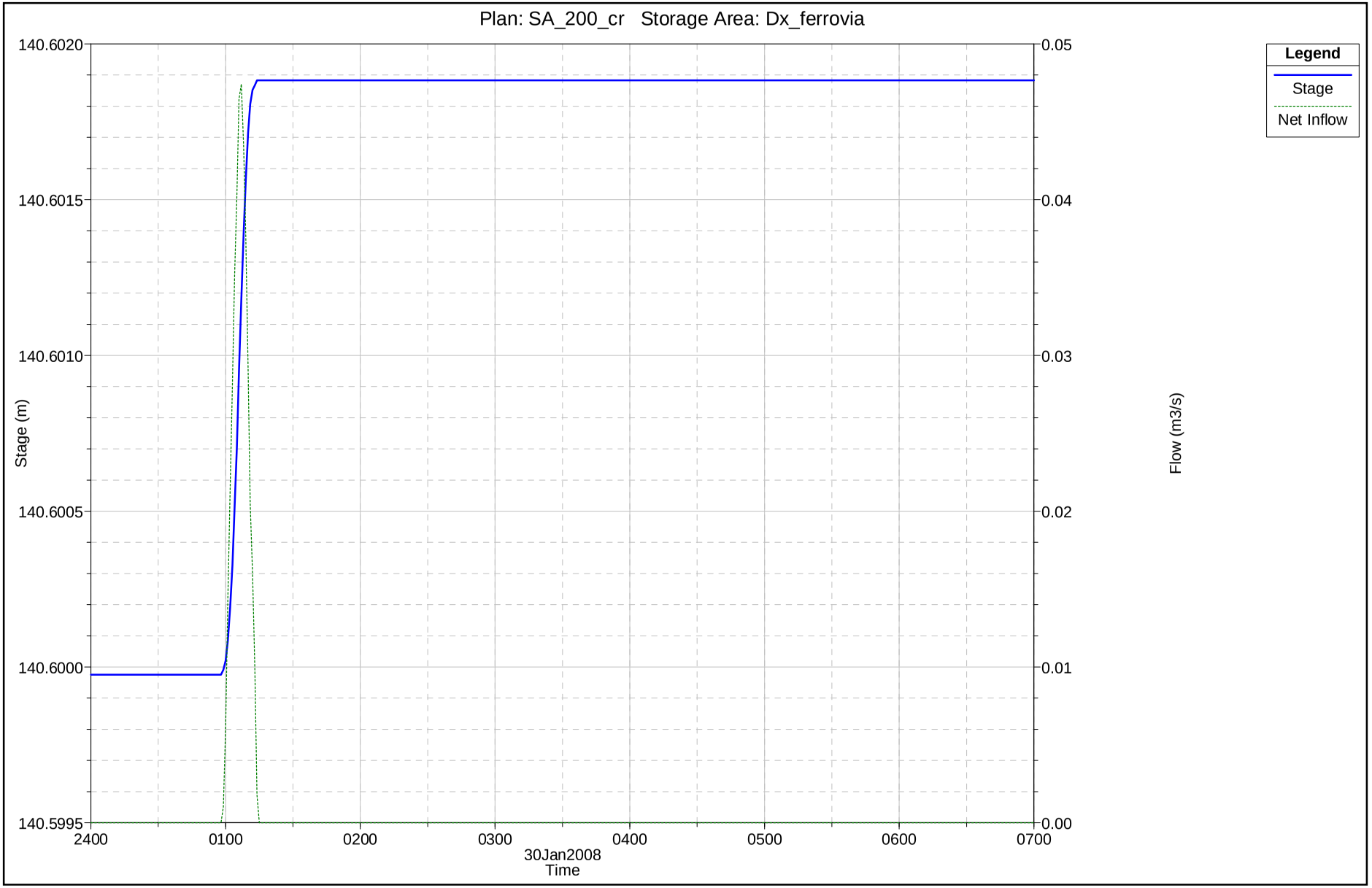

Plan: SA_100_cr Storage Area: Dx_ferrovia
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
146
144
142
140
138
136
134
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

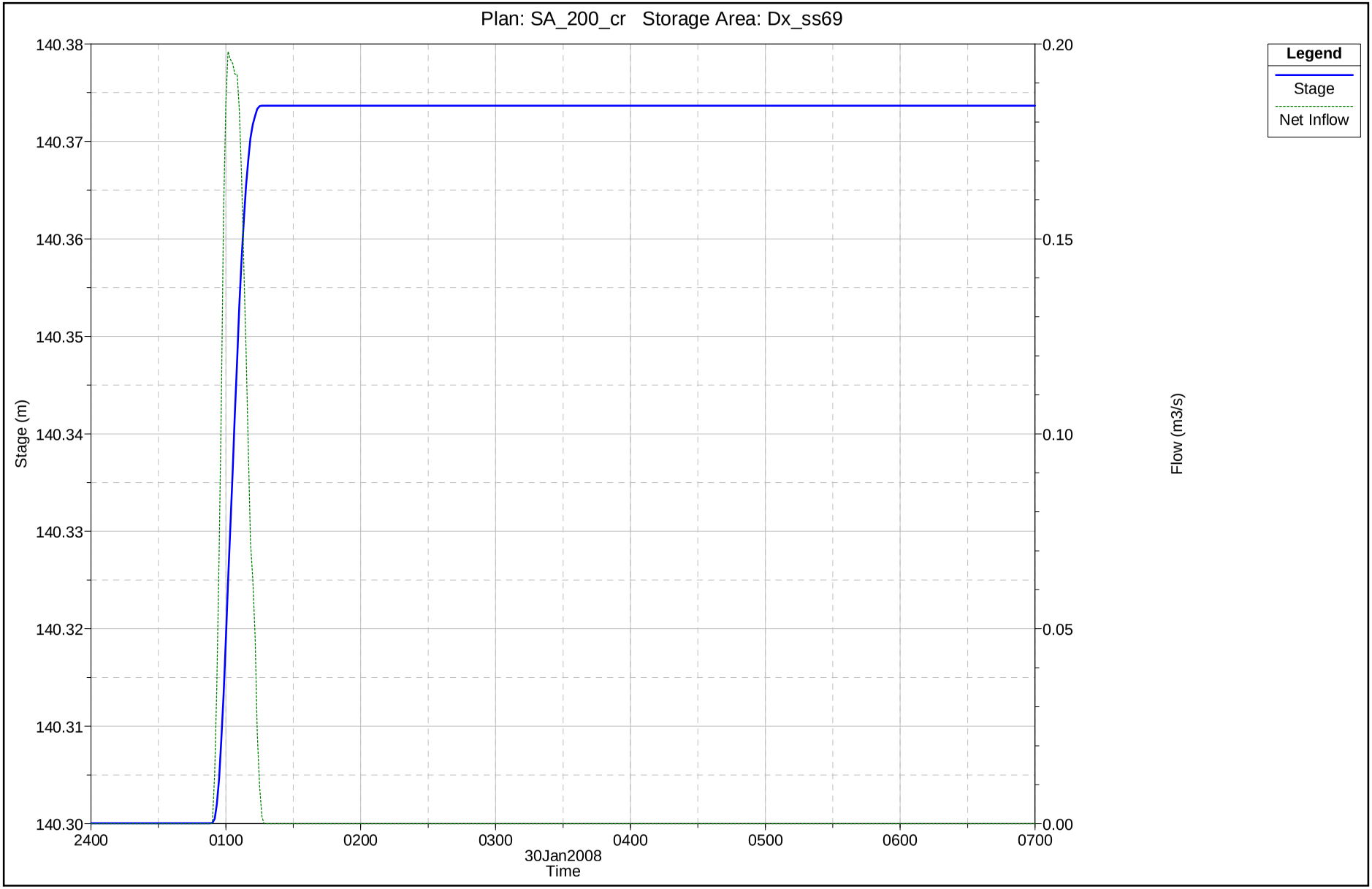

Plan: SA_100_cr Storage Area: Dx_ss69
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
146
144
142
140
138
136
134
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

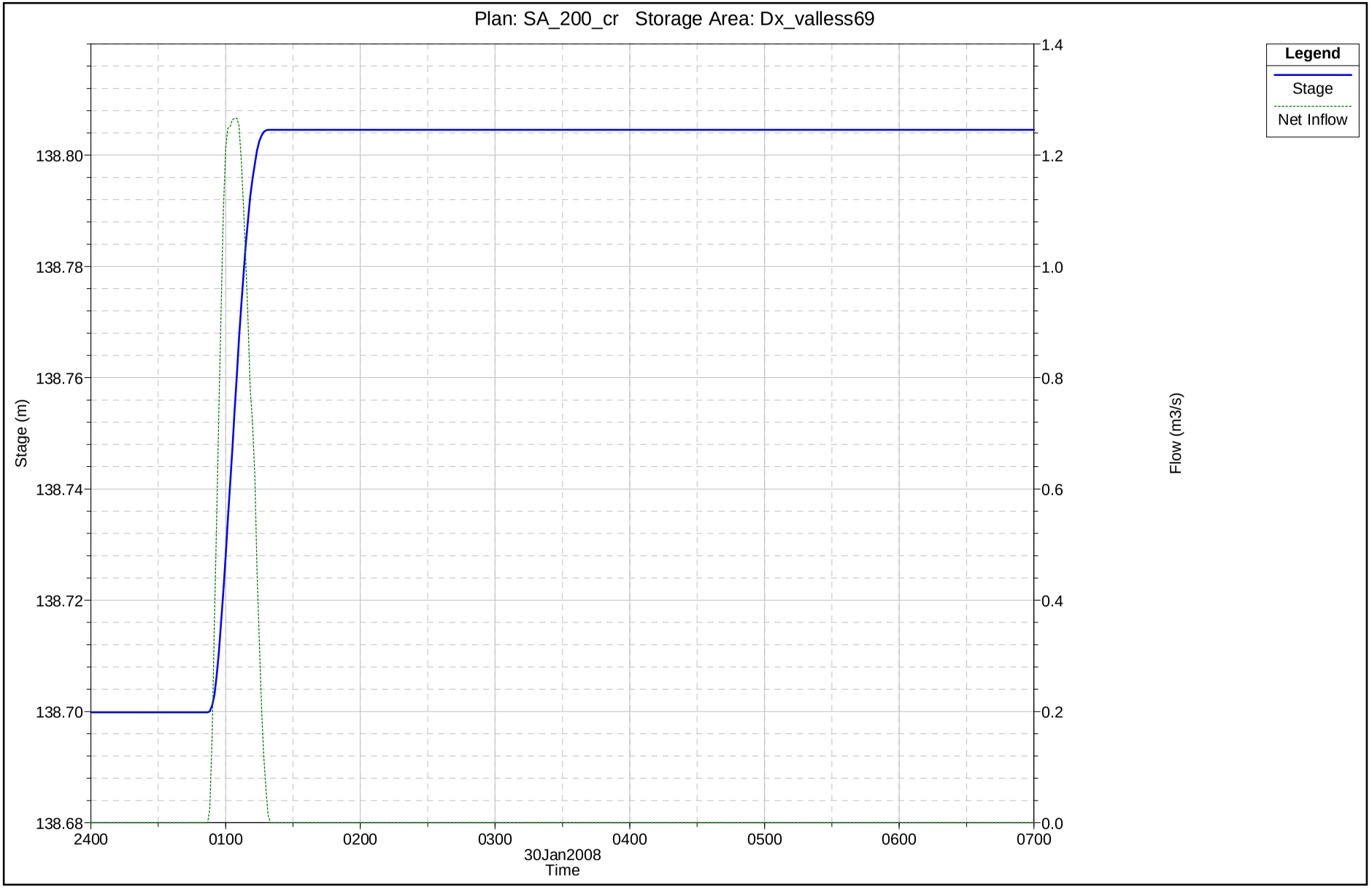

Plan: SA_100_cr Storage Area: Dx_valless69
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
144
142
140
138
136
134
132
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

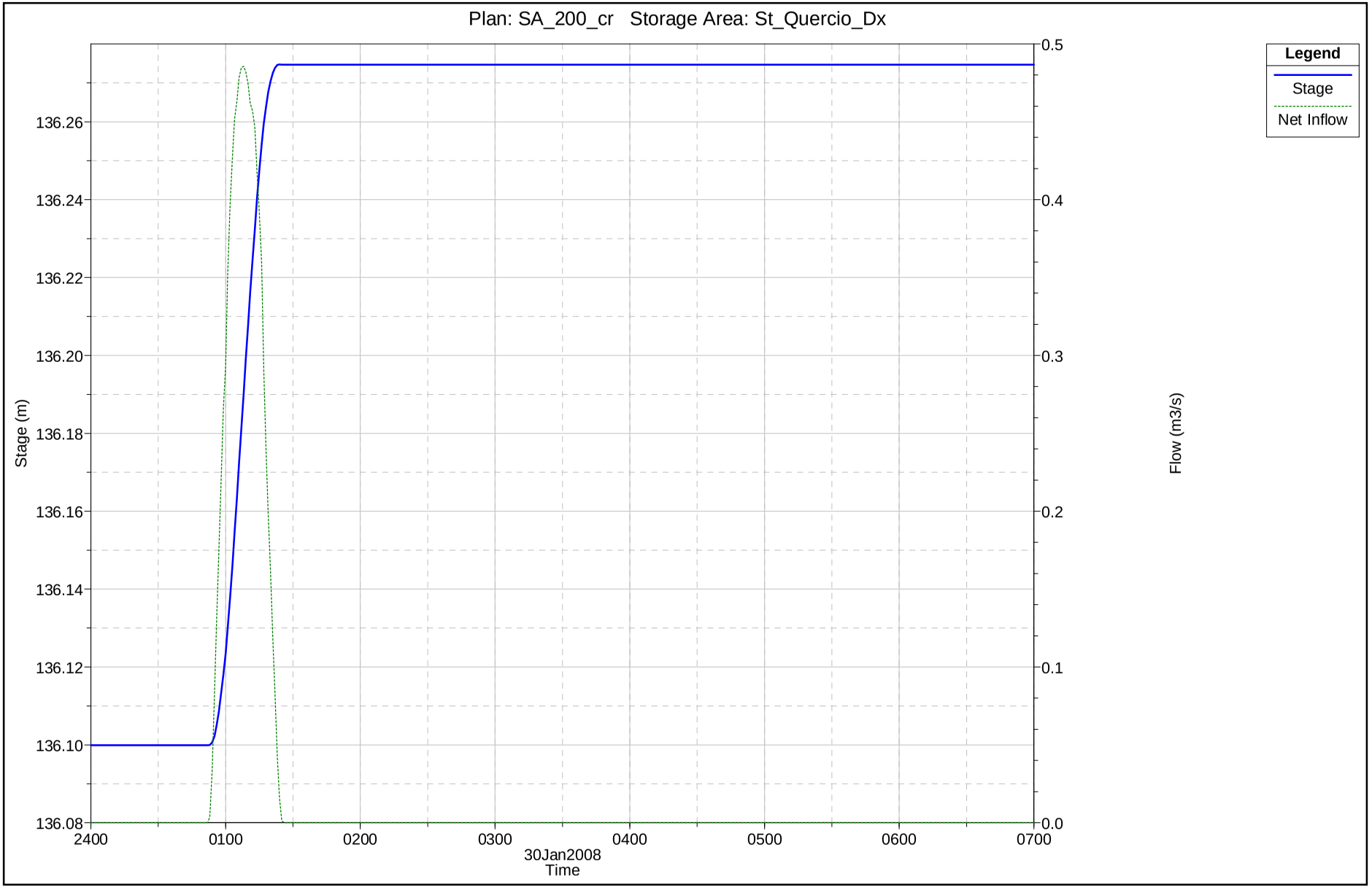

Plan: SA_100_cr Storage Area: St_Quercio_Dx
Legend
Stage
Net Inflow
Stage (m)
136.1014
136.1012
136.1010
136.1008
136.1006
136.1004
136.1002
136.1000
136.0998
Flow (m3/s)
0.020
0.015
0.010
0.005
0.000
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

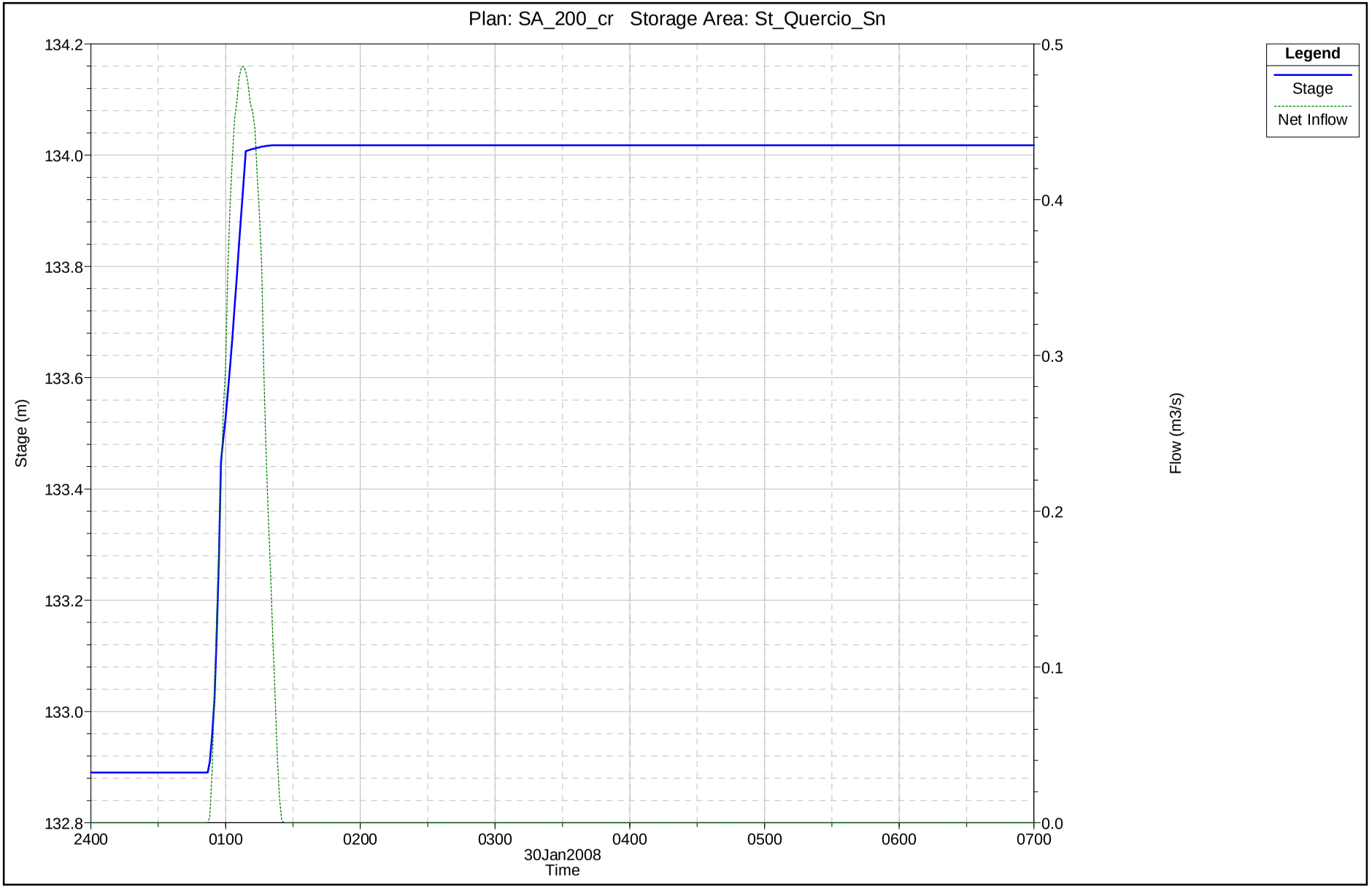

Plan: SA_100_cr Storage Area: St_Quercio_Sn
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
133.04
133.02
133.00
132.98
132.96
132.94
132.92
132.90
132.88
0.020
0.015
0.010
0.005
0.000
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

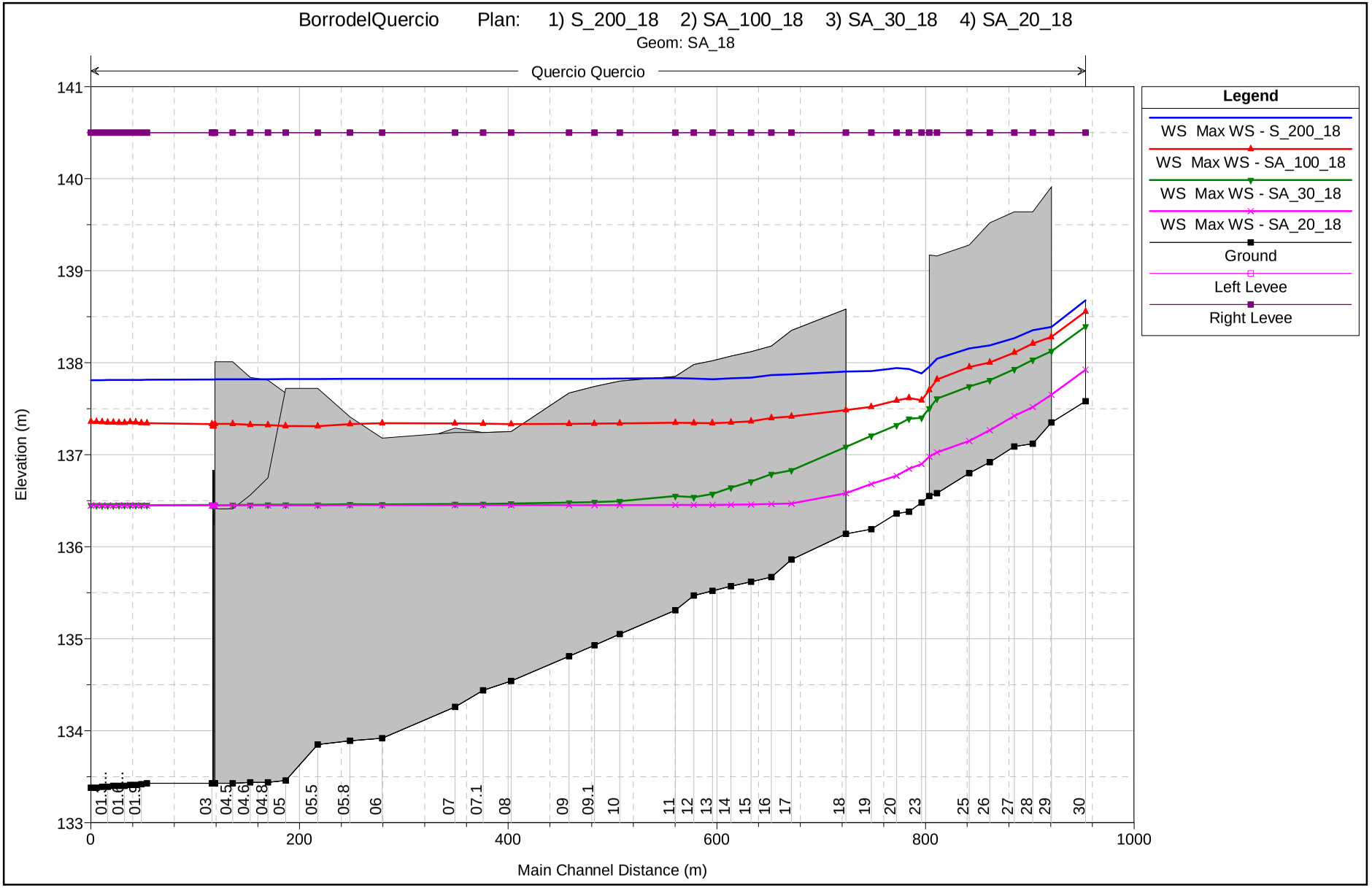

Plan: SA_200_cr Storage Area: Dx_ferrovia
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
140.6020
140.6015
140.6010
140.6005
140.6000
140.5995
0.05
0.04
0.03
0.02
0.01
0.00
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time


Plan: SA_200_cr Storage Area: Dx_ss69
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
140.38
140.37
140.36
140.35
140.34
140.33
140.32
140.31
140.30
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time


Plan: SA_200_cr Storage Area: Dx_valless69
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
138.80
138.78
138.76
138.74
138.72
138.70
138.68
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time


Plan: SA_200_cr Storage Area: St_Quercio_Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
136.26
136.24
136.22
136.20
136.18
136.16
136.14
136.12
136.10
136.08
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time

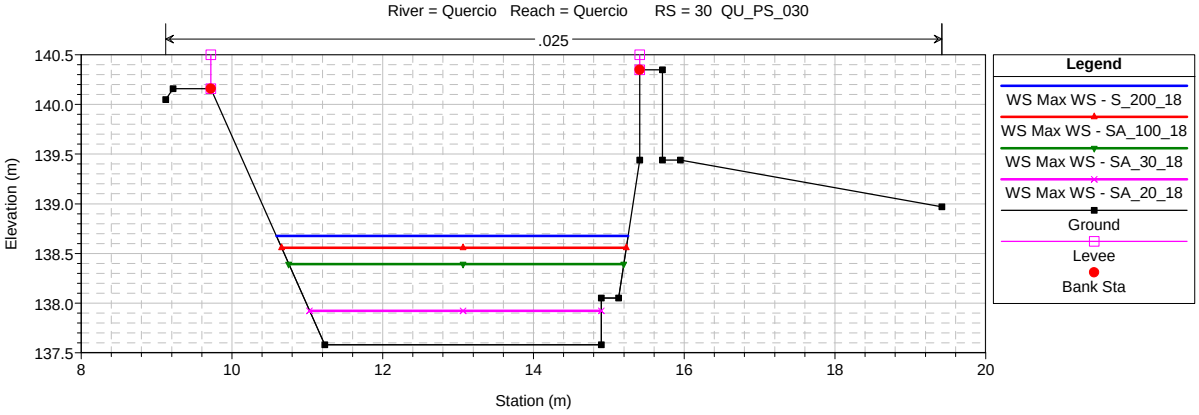

Plan: SA_200_cr Storage Area: St_Quercio_Sn
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
134.2
134.0
133.8
133.6
133.4
133.2
133.0
132.8
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
0500
0600
0700
30Jan2008
Time


BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
Quercio Quercio
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
141
140
139
138
137
136
135
134
133
0
200
400
600
800
1000

BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

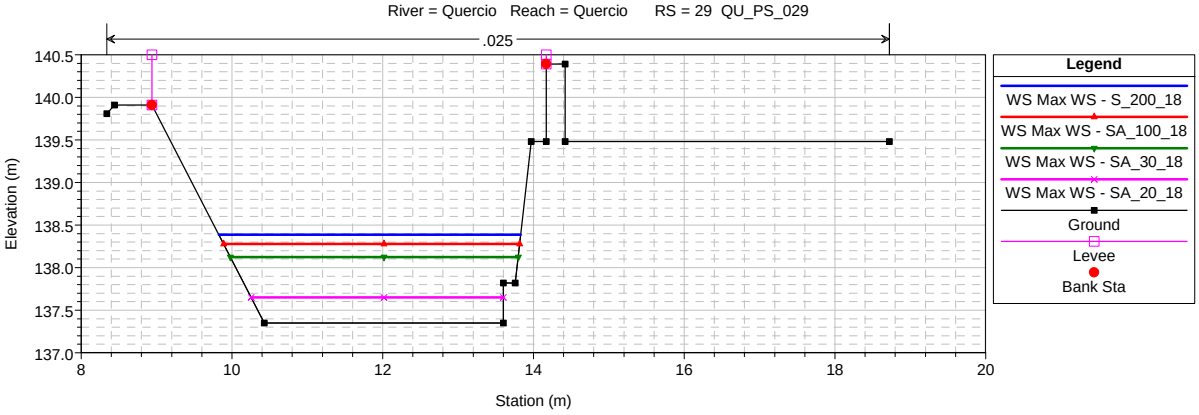
River = Quercio Reach = Quercio RS = 30 QU_PS_030



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

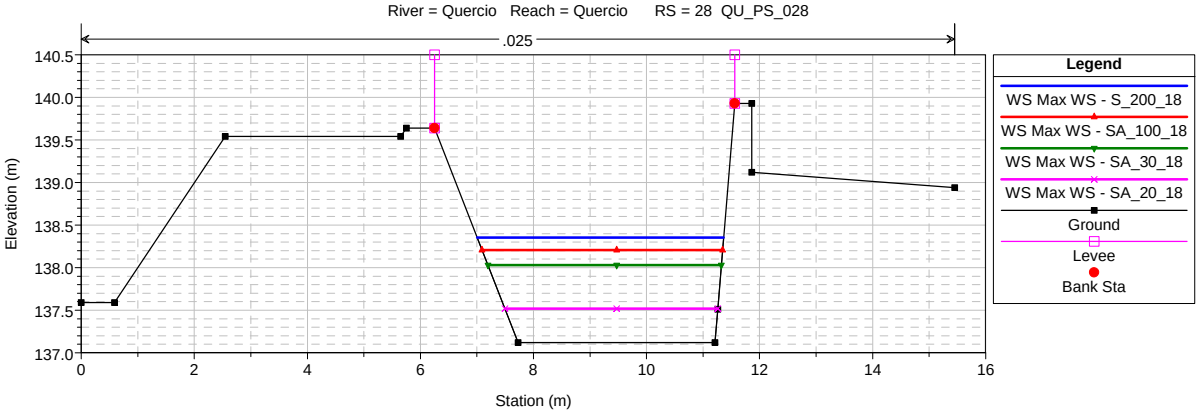
River = Quercio Reach = Quercio RS = 29 QU_PS_029



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

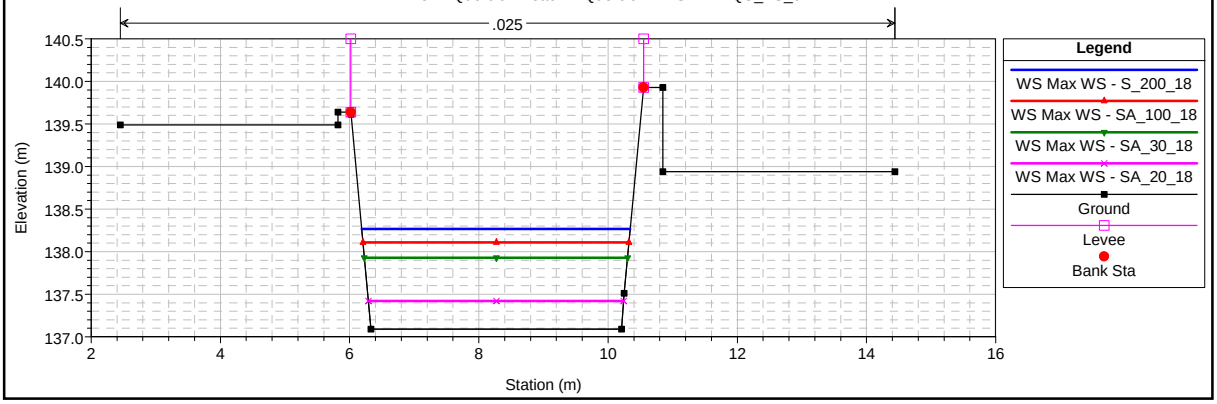
River = Quercio Reach = Quercio RS = 28 QU_PS_028

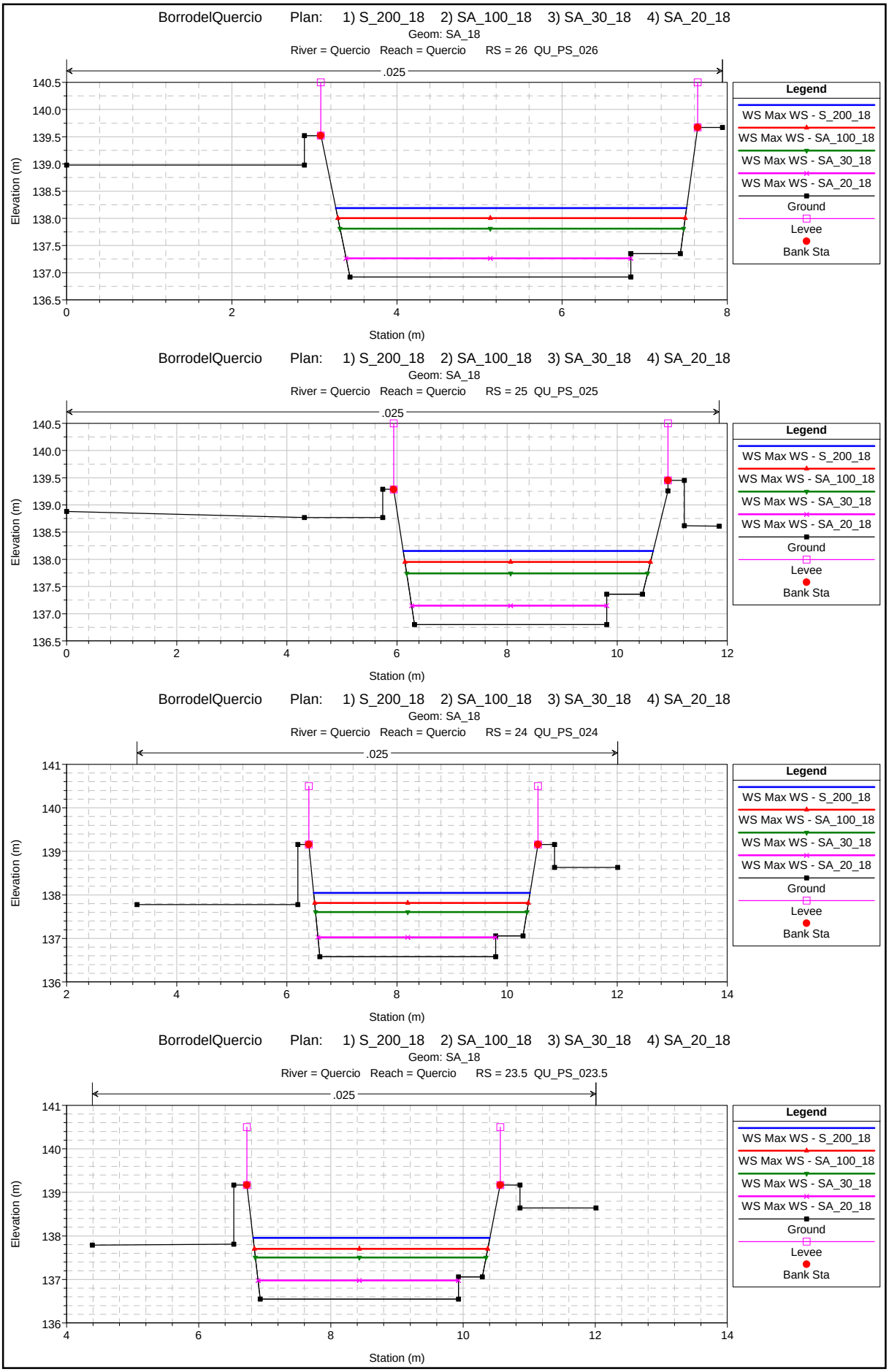


BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

River = Quercio Reach = Quercio RS = 27 QU_PS_027

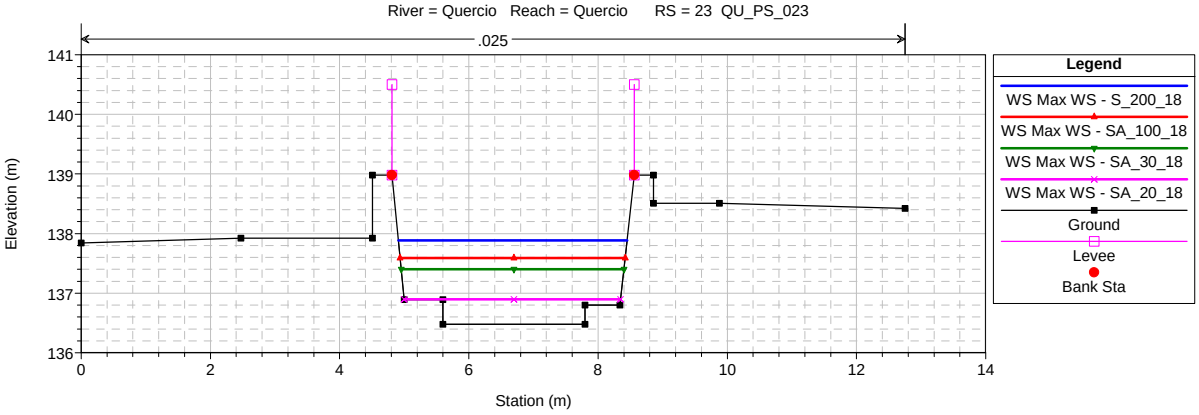



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 26 QU_PS_026
.025
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 25 QU_PS_025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 24 QU_PS_024
.025
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 23.5 QU_PS_023.5
.025
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta

BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

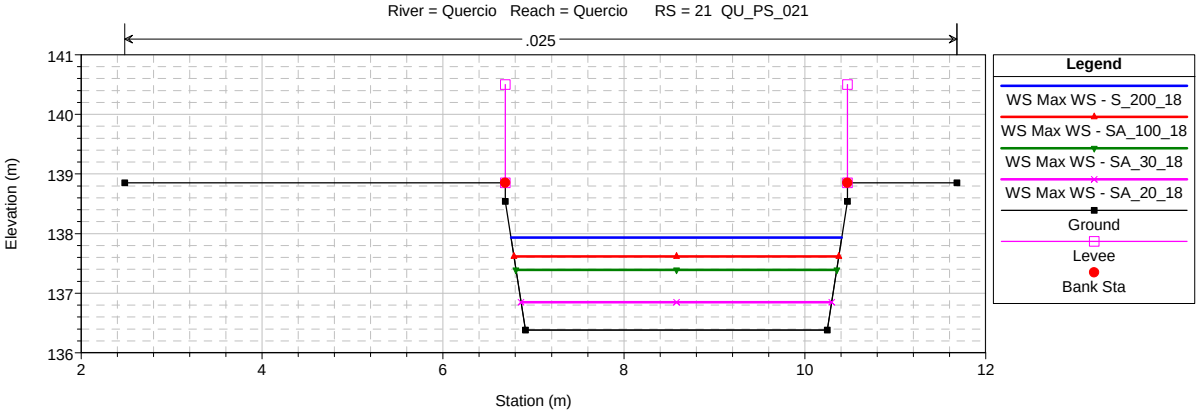
River = Quercio Reach = Quercio RS = 23 QU_PS_023



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

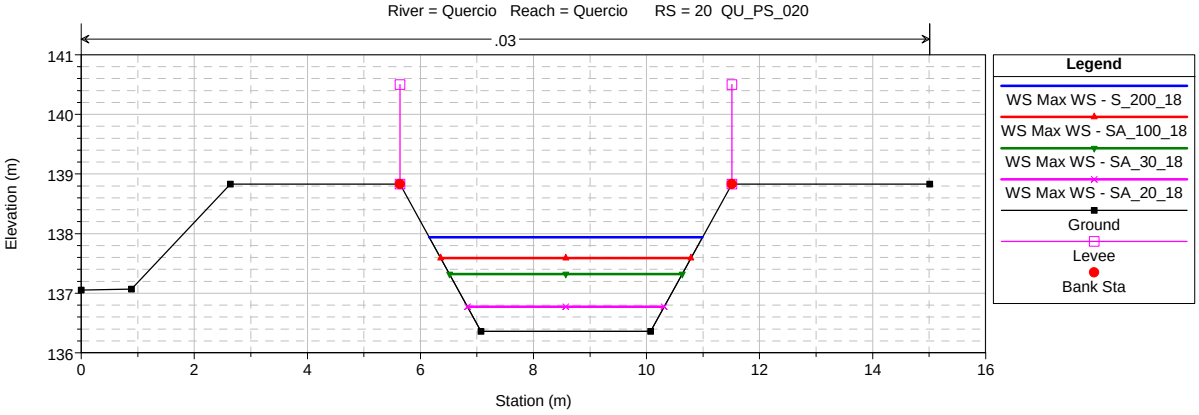
River = Quercio Reach = Quercio RS = 21 QU_PS_021



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

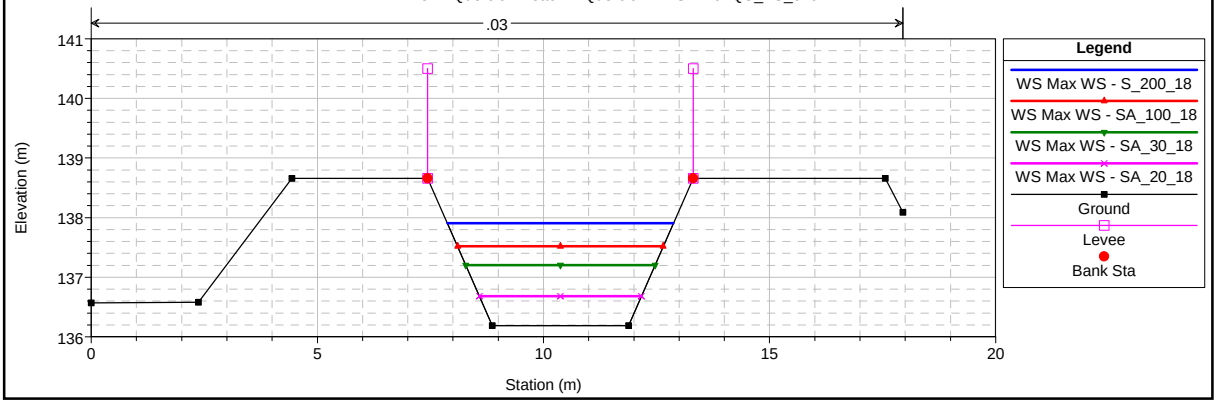
River = Quercio Reach = Quercio RS = 20 QU_PS_020

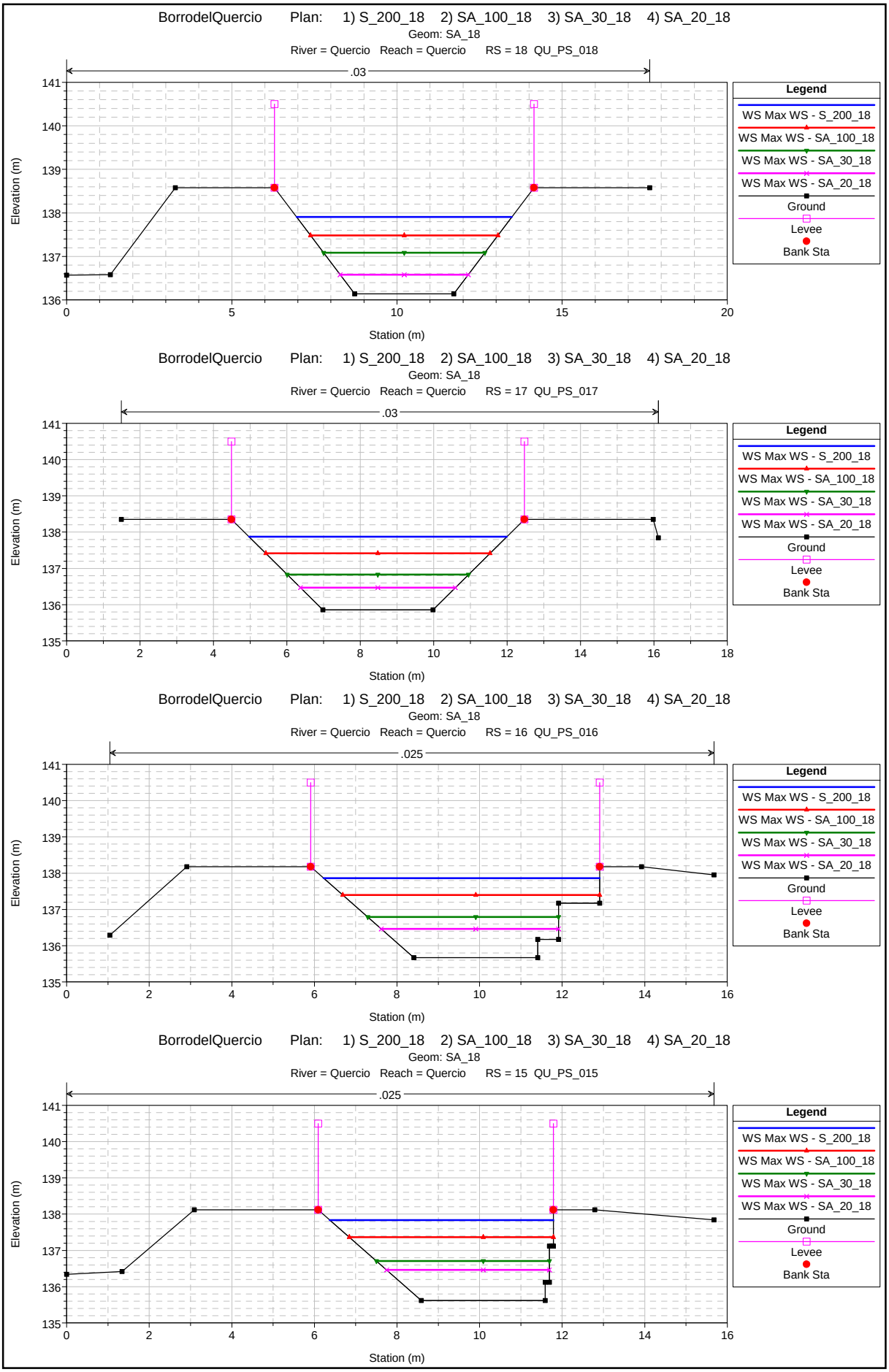


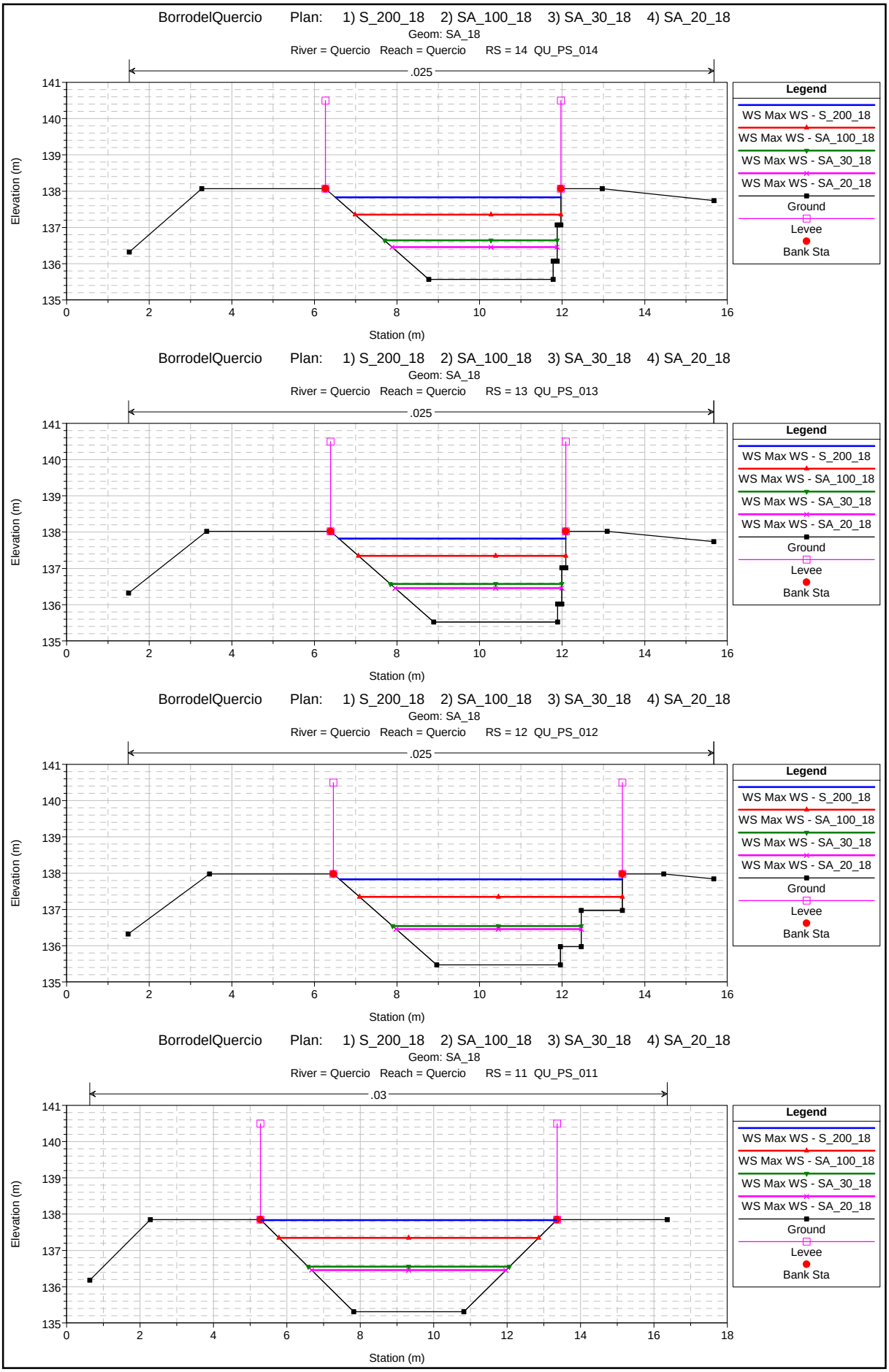
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

River = Quercio Reach = Quercio RS = 19 QU_PS_019



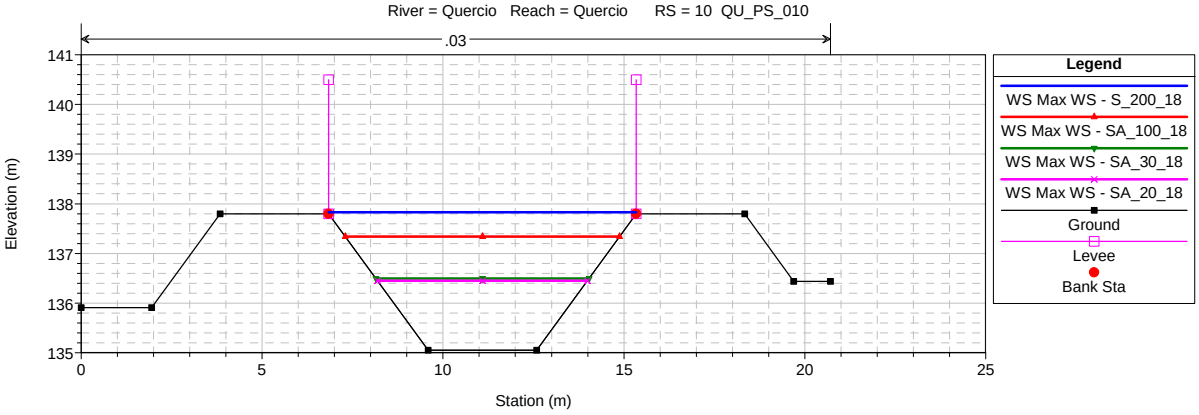

BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 18 QU_PS_018
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 17 QU_PS_017
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 16 QU_PS_016
.025
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 15 QU_PS_015
.025
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta


BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 14 QU_PS_014
.025
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 13 QU_PS_013
.025
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 12 QU_PS_012
.025
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 11 QU_PS_011
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta

BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

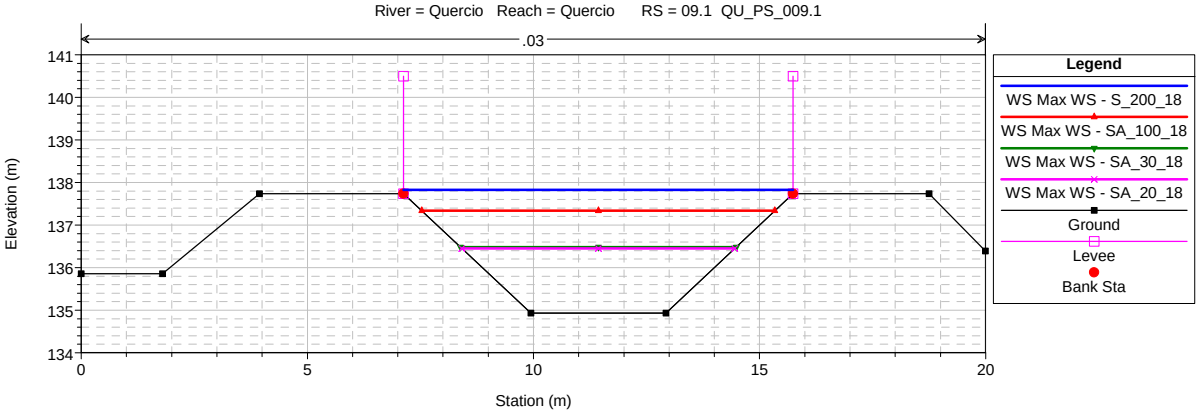
River = Quercio Reach = Quercio RS = 10 QU_PS_010



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

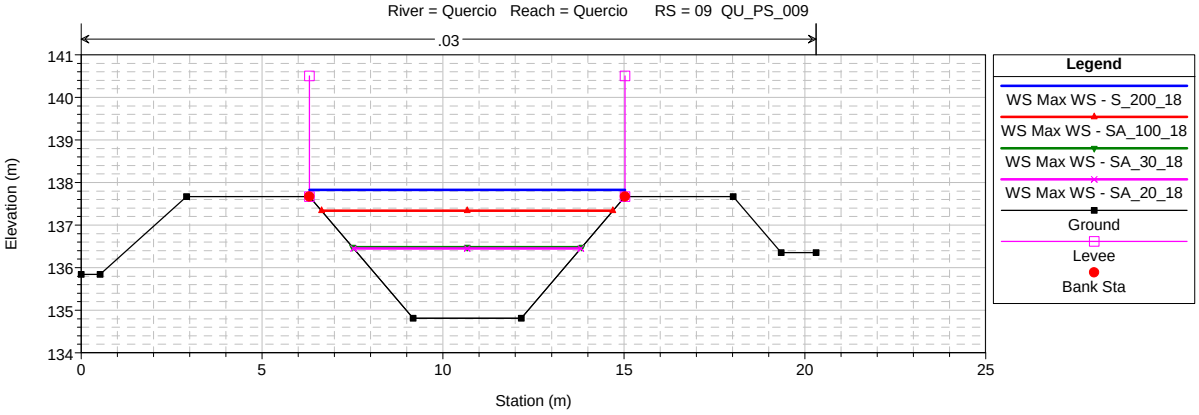
River = Quercio Reach = Quercio RS = 09.1 QU_PS_009.1



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

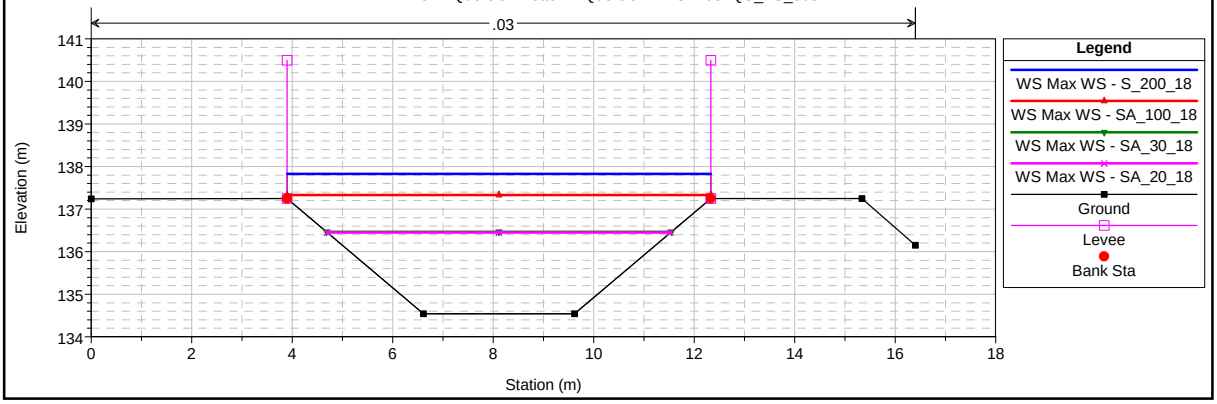
River = Quercio Reach = Quercio RS = 09 QU_PS_009

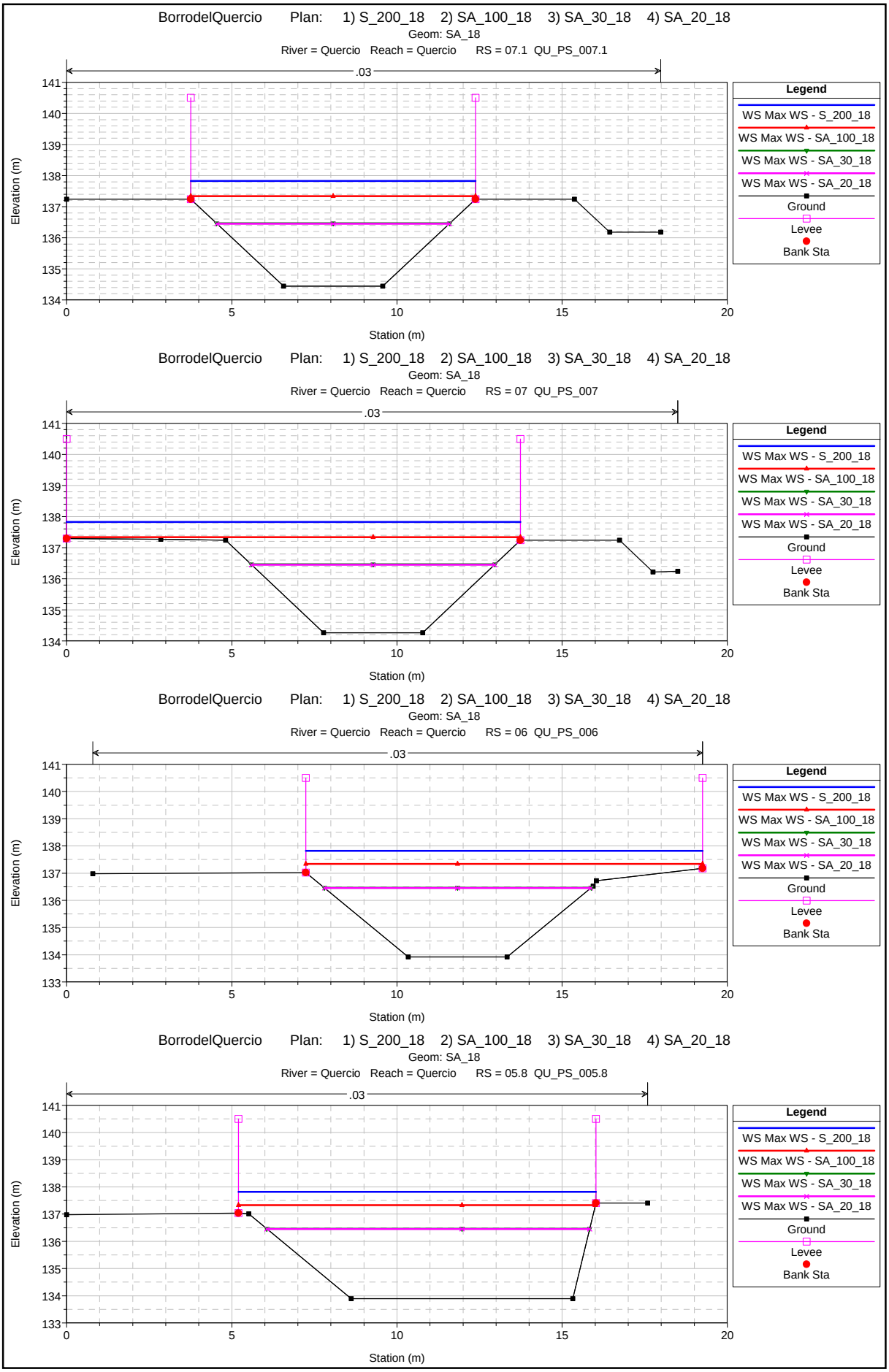


BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

River = Quercio Reach = Quercio RS = 08 QU_PS_008

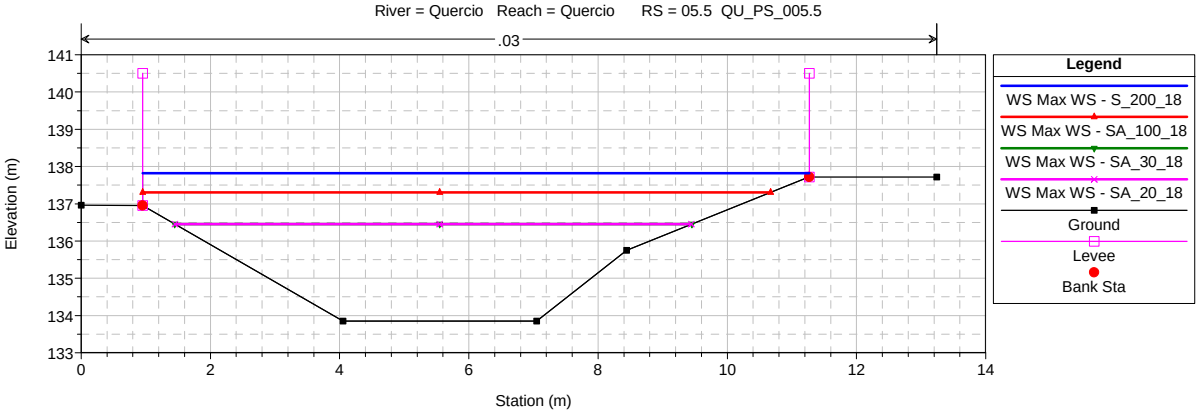



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 07.1 QU_PS_007.1
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 07 QU_PS_007
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 06 QU_PS_006
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 05.8 QU_PS_005.8
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta

BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

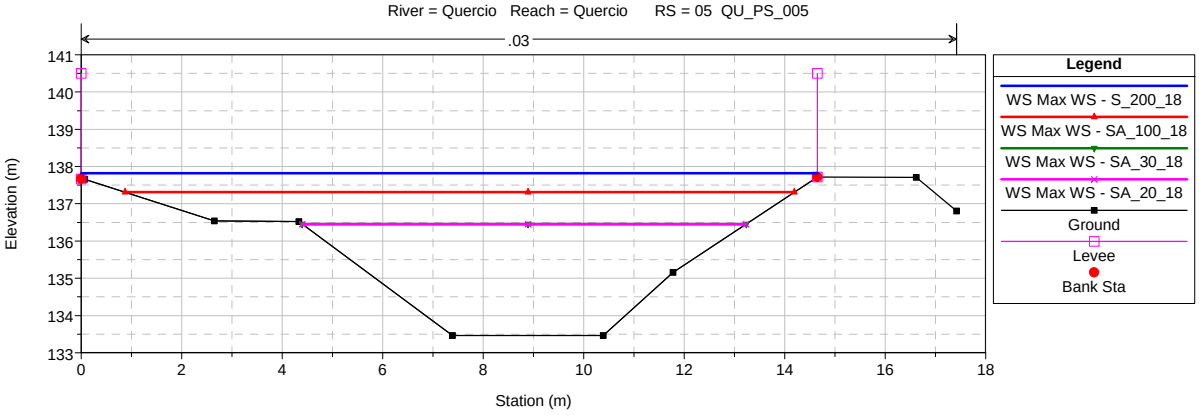
River = Quercio Reach = Quercio RS = 05.5 QU_PS_005.5



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

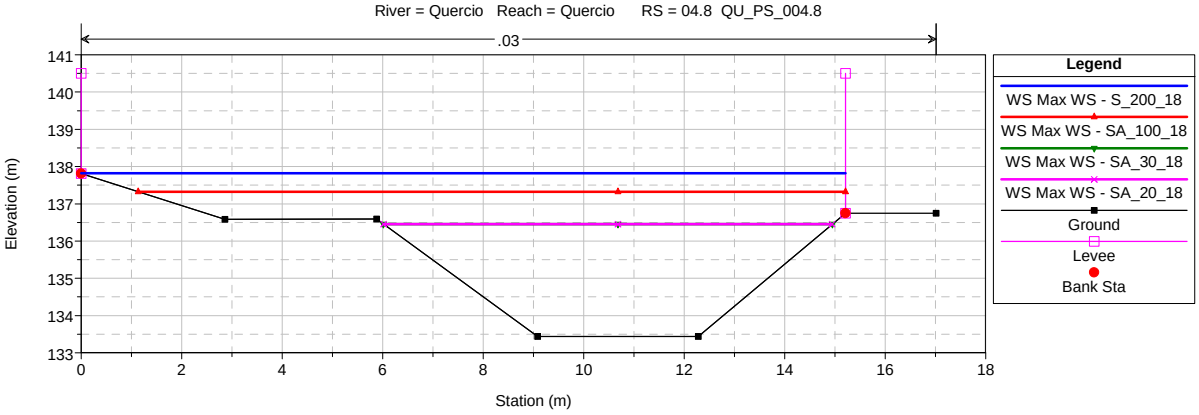
River = Quercio Reach = Quercio RS = 05 QU_PS_005



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

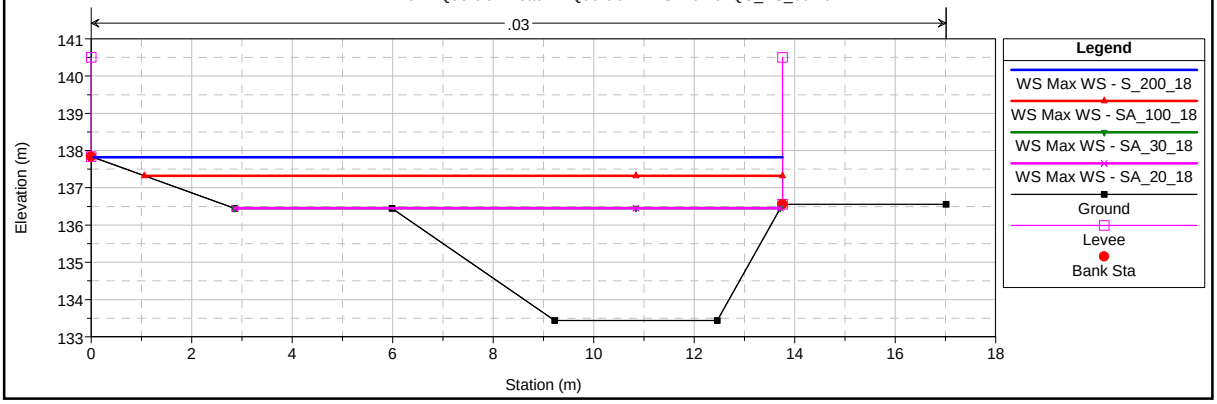
River = Quercio Reach = Quercio RS = 04.8 QU_PS_004.8



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

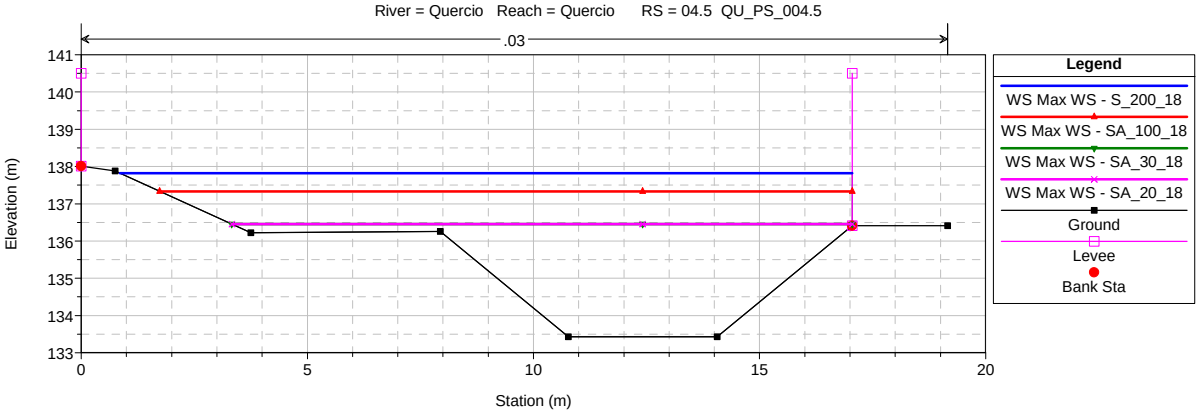
River = Quercio Reach = Quercio RS = 04.6 QU_PS_004.6



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

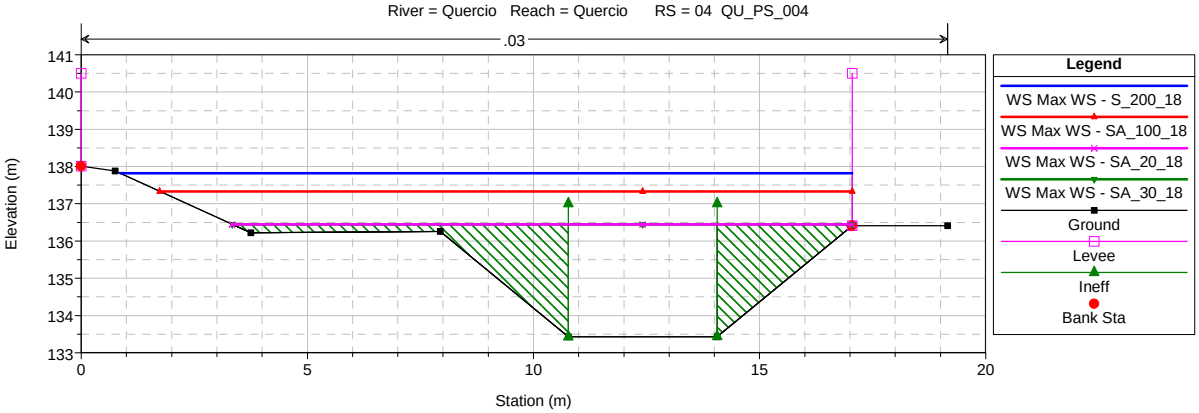
River = Quercio Reach = Quercio RS = 04.5 QU_PS_004.5



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

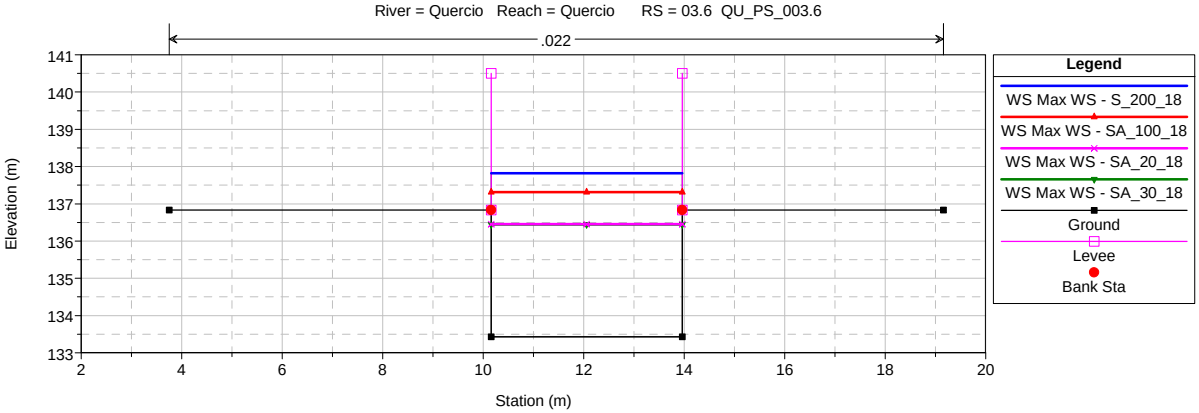
River = Quercio Reach = Quercio RS = 04 QU_PS_004



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

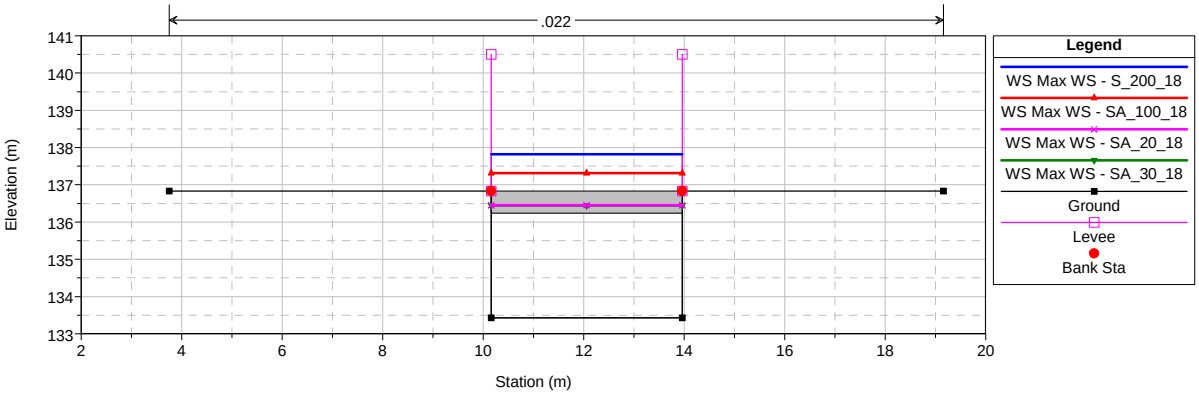
River = Quercio Reach = Quercio RS = 03.6 QU_PS_003.6



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

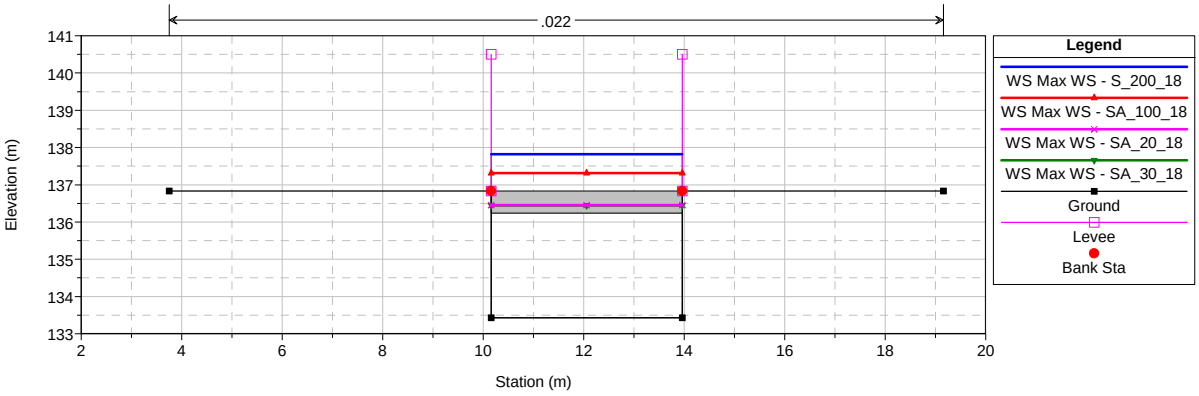
River = Quercio Reach = Quercio RS = 03.5 BR Ponte confluenza Arno



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

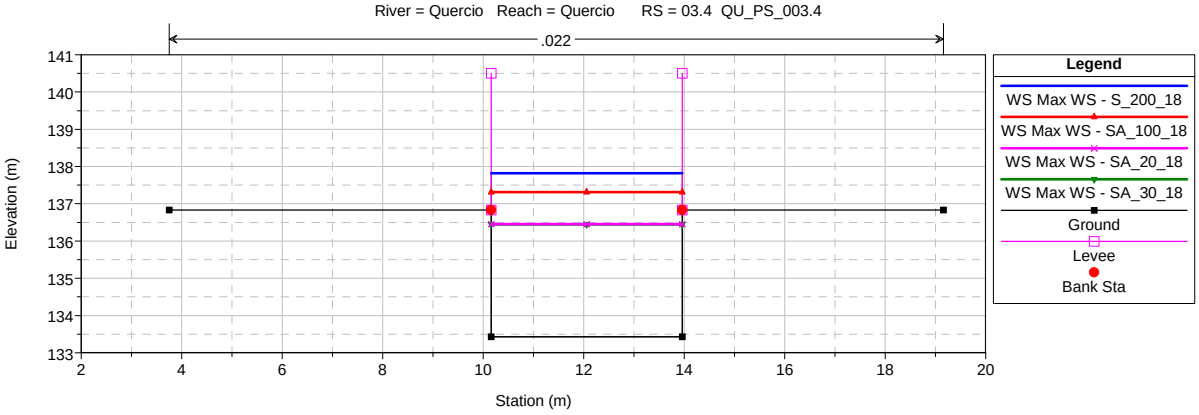
River = Quercio Reach = Quercio RS = 03.5 BR Ponte confluenza Arno



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

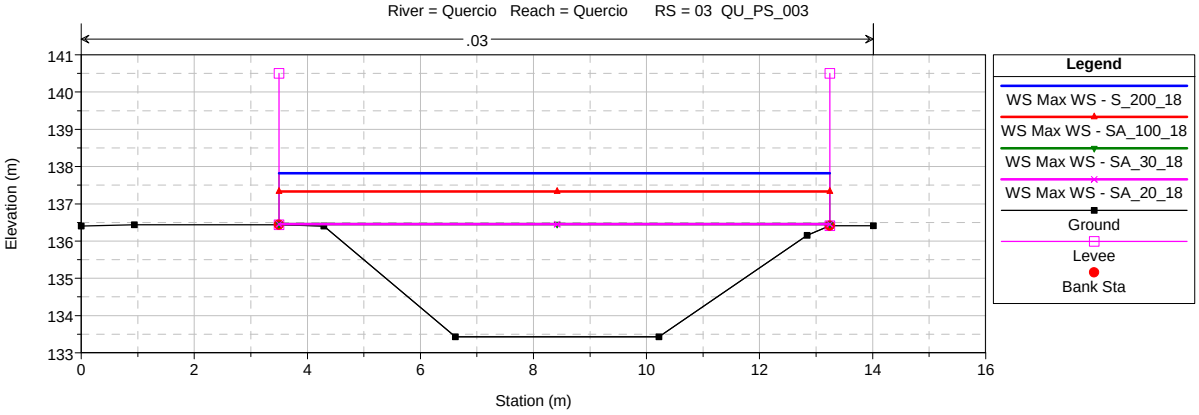
River = Quercio Reach = Quercio RS = 03.4 QU_PS_003.4



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

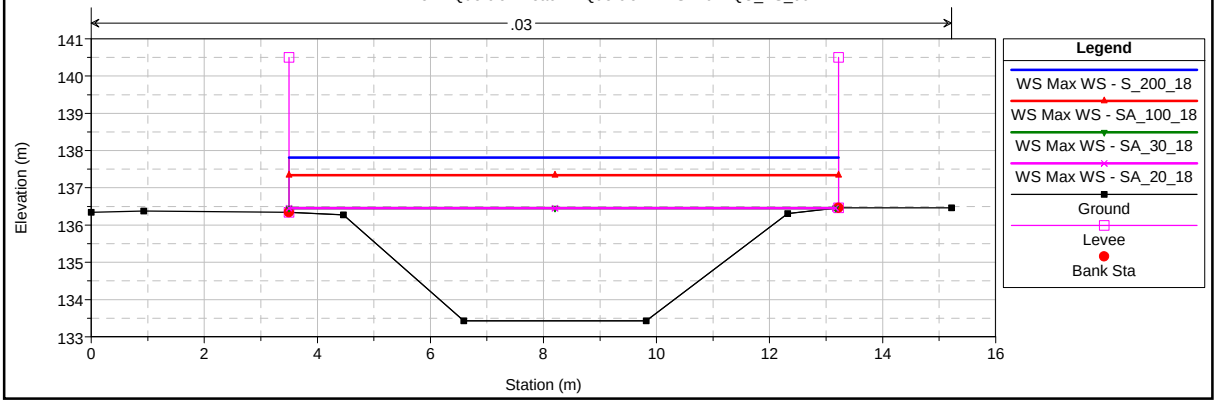
River = Quercio Reach = Quercio RS = 03 QU_PS_003

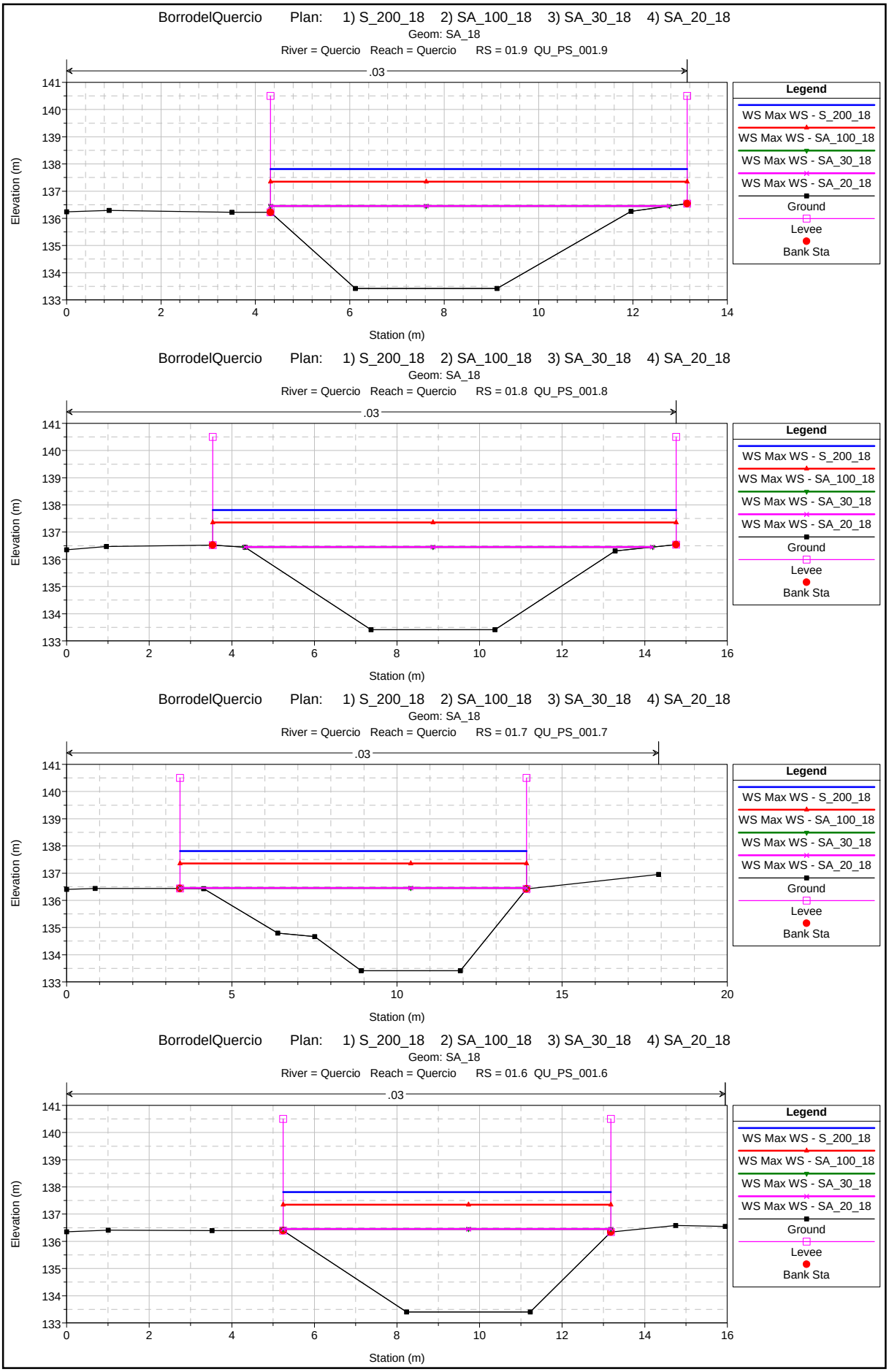


BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

River = Quercio Reach = Quercio RS = 02 QU_PS_002

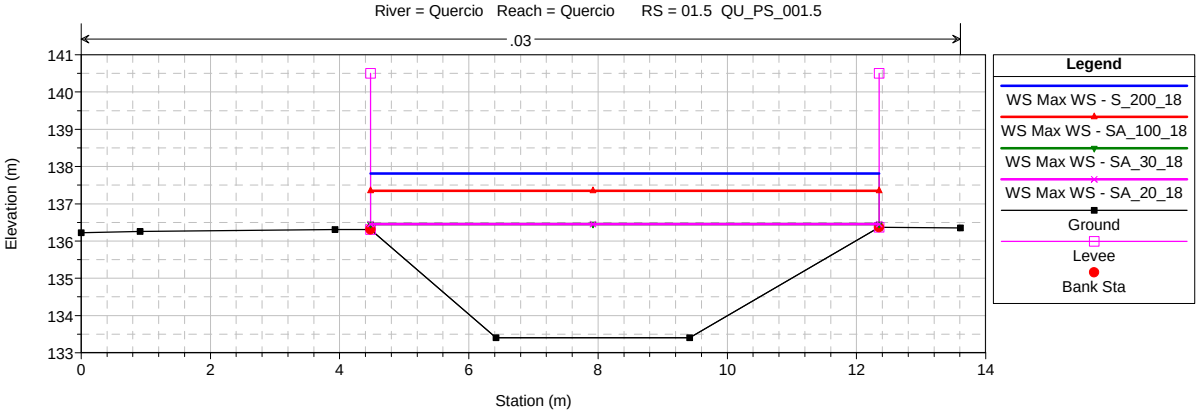



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 01.9 QU_PS_001.9
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 01.8 QU_PS_001.8
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 01.7 QU_PS_001.7
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 01.6 QU_PS_001.6
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta

BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

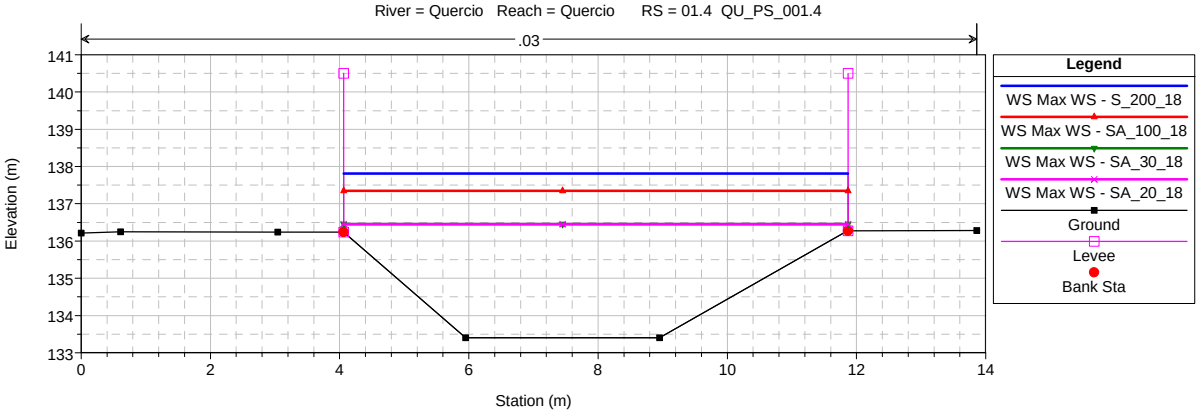
River = Quercio Reach = Quercio RS = 01.5 QU_PS_001.5



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

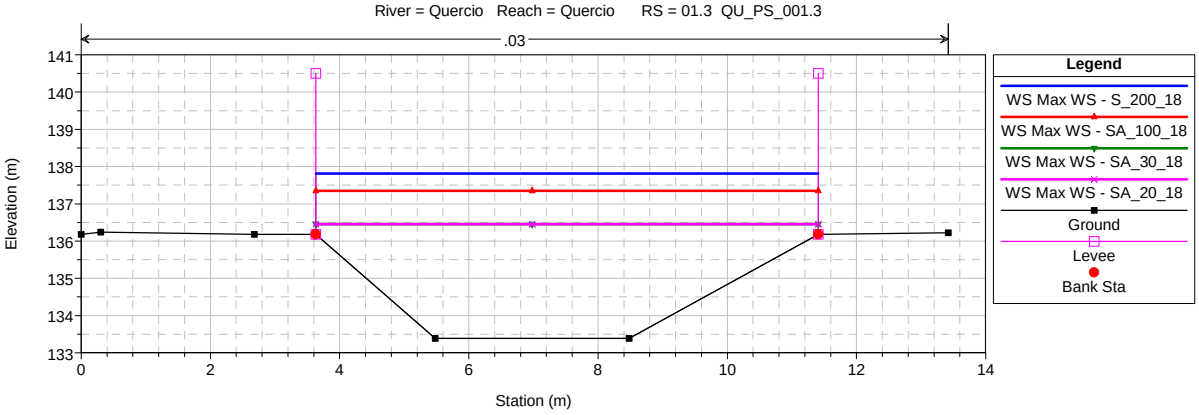
River = Quercio Reach = Quercio RS = 01.4 QU_PS_001.4



BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

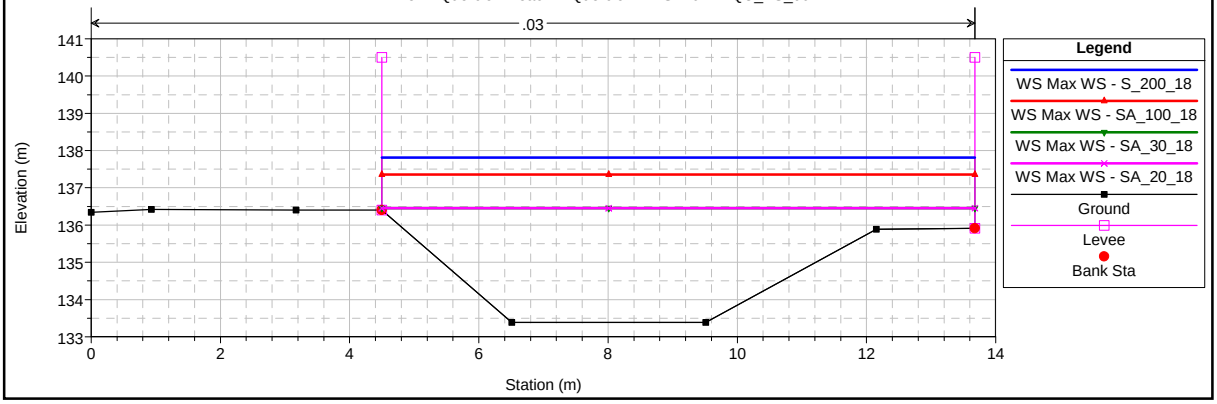
River = Quercio Reach = Quercio RS = 01.3 QU_PS_001.3

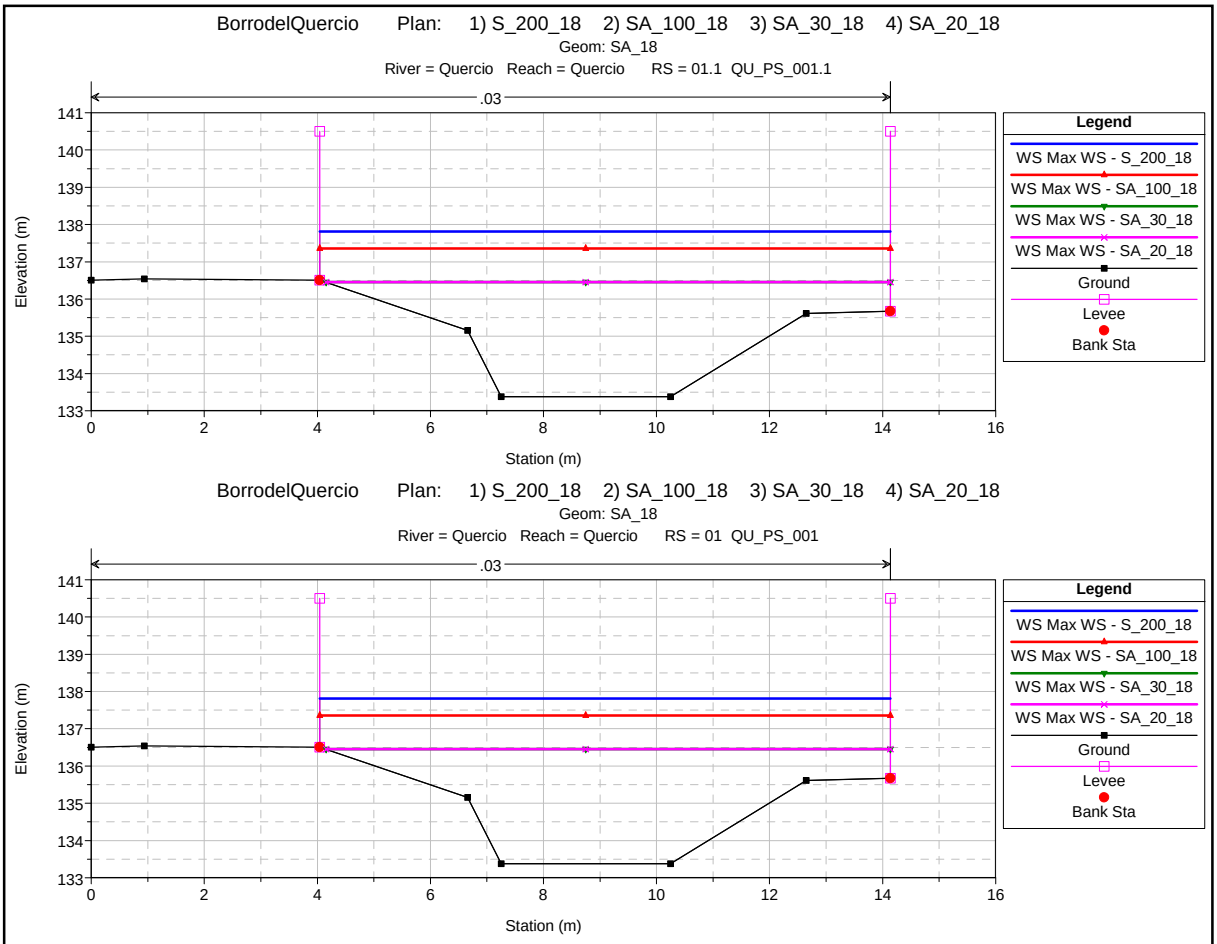


BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA_18

River = Quercio Reach = Quercio RS = 01.2 QU_PS_001.2




BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 01.1 QU_PS_001.1
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelQuercio Plan: 1) S_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA_18
River = Quercio Reach = Quercio RS = 01 QU_PS_001
.03
Elevation (m)
Station (m)
Legend
WS Max WS - S_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	30	Max WS	S_200_18	10.54	137.58	138.68		138.95	0.005115	2.31	4.56	4.67	0.75
Quercio	30	Max WS	SA_100_18	9.00	137.58	138.56		138.81	0.005436	2.25	4.00	4.57	0.77
Quercio	30	Max WS	SA_30_18	6.83	137.58	138.39		138.62	0.005656	2.09	3.27	4.45	0.78
Quercio	30	Max WS	SA_20_18	1.69	137.58	137.92		138.01	0.005490	1.31	1.29	3.87	0.72
Quercio	29	Max WS	S_200_18	10.54	137.35	138.39		138.80	0.008619	2.83	3.72	4.01	0.94
Quercio	29	Max WS	SA_100_18	9.00	137.35	138.28	138.25	138.66	0.008953	2.74	3.29	3.93	0.96
Quercio	29	Max WS	SA_30_18	6.83	137.35	138.12	138.11	138.45	0.009262	2.54	2.69	3.82	0.97
Quercio	29	Max WS	SA_20_18	1.69	137.35	137.65	137.65	137.80	0.011375	1.72	0.98	3.35	1.02
Quercio	28.99			Lat Struct									
Quercio	28	Max WS	S_200_18	10.54	137.12	138.35		138.60	0.004095	2.18	4.84	4.36	0.66
Quercio	28	Max WS	SA_100_18	9.01	137.12	138.21		138.44	0.004437	2.14	4.21	4.26	0.69
Quercio	28	Max WS	SA_30_18	6.84	137.12	138.03		138.23	0.004474	1.98	3.46	4.13	0.69
Quercio	28	Max WS	SA_20_18	1.69	137.12	137.52		137.59	0.003739	1.17	1.44	3.76	0.60
Quercio	27	Max WS	S_200_18	10.54	137.09	138.27		138.52	0.004531	2.23	4.72	4.16	0.67
Quercio	27	Max WS	SA_100_18	9.01	137.09	138.11		138.36	0.005066	2.21	4.07	4.12	0.71
Quercio	27	Max WS	SA_30_18	6.84	137.09	137.93		138.14	0.005188	2.05	3.34	4.07	0.72
Quercio	27	Max WS	SA_20_18	1.69	137.09	137.42		137.51	0.005586	1.30	1.30	3.95	0.72
Quercio	26	Max WS	S_200_18	10.54	136.92	138.19		138.42	0.004121	2.13	4.95	4.25	0.63
Quercio	26	Max WS	SA_100_18	9.00	136.92	138.00		138.24	0.004926	2.16	4.17	4.20	0.69
Quercio	26	Max WS	SA_30_18	6.83	136.92	137.81		138.02	0.005321	2.03	3.36	4.16	0.72
Quercio	26	Max WS	SA_20_18	1.69	136.92	137.27		137.37	0.006682	1.43	1.18	3.45	0.78
Quercio	25	Max WS	S_200_18	10.54	136.80	138.16		138.35	0.003167	1.93	5.46	4.54	0.56
Quercio	25	Max WS	SA_100_18	9.00	136.80	137.95		138.15	0.003931	1.98	4.54	4.46	0.63
Quercio	25	Max WS	SA_30_18	6.83	136.80	137.74		137.92	0.004434	1.89	3.61	4.38	0.66
Quercio	25	Max WS	SA_20_18	1.69	136.80	137.15		137.25	0.006053	1.37	1.23	3.54	0.74
Quercio	24	Max WS	S_200_18	10.54	136.58	138.04		138.25	0.003315	1.99	5.31	3.93	0.55
Quercio	24	Max WS	SA_100_18	9.00	136.58	137.82		138.03	0.004053	2.04	4.42	3.88	0.61
Quercio	24	Max WS	SA_30_18	6.83	136.58	137.61		137.79	0.004153	1.89	3.61	3.84	0.62
Quercio	24	Max WS	SA_20_18	1.69	136.58	137.03		137.10	0.003522	1.18	1.43	3.22	0.57
Quercio	23.5	Max WS	S_200_18	10.54	136.55	137.96		138.22	0.004625	2.26	4.67	3.58	0.63

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	23.5	Max WS	SA_100_18	9.00	136.55	137.70		137.99	0.006142	2.39	3.77	3.53	0.74
Quercio	23.5	Max WS	SA_30_18	6.83	136.55	137.50		137.76	0.006392	2.23	3.07	3.49	0.76
Quercio	23.5	Max WS	SA_20_18	1.69	136.55	136.98		137.07	0.004578	1.31	1.29	3.03	0.64
Quercio	23	Max WS	S_200_18	10.54	136.48	137.88		138.18	0.005732	2.41	4.37	3.54	0.69
Quercio	23	Max WS	SA_100_18	9.00	136.48	137.59		137.96	0.008922	2.69	3.35	3.48	0.88
Quercio	23	Max WS	SA_30_18	6.83	136.48	137.40		137.73	0.009724	2.54	2.69	3.45	0.92
Quercio	23	Max WS	SA_20_18	1.69	136.48	136.90	136.90	137.05	0.013085	1.74	0.98	3.35	1.03
Quercio	21	Max WS	S_200_18	10.54	136.38	137.93		138.12	0.002975	1.94	5.43	3.66	0.51
Quercio	21	Max WS	SA_100_18	9.00	136.38	137.62		137.84	0.004151	2.10	4.29	3.59	0.61
Quercio	21	Max WS	SA_30_18	6.83	136.38	137.39		137.59	0.004290	1.96	3.48	3.55	0.63
Quercio	21	Max WS	SA_20_18	1.69	136.38	136.85		136.91	0.002692	1.07	1.58	3.44	0.50
Quercio	20	Max WS	S_200_18	10.54	136.36	137.94		138.09	0.002869	1.70	6.19	4.84	0.48
Quercio	20	Max WS	SA_100_18	9.00	136.36	137.59		137.79	0.004854	1.97	4.57	4.43	0.62
Quercio	20	Max WS	SA_30_18	6.83	136.36	137.32		137.52	0.006324	2.00	3.42	4.12	0.70
Quercio	20	Max WS	SA_20_18	1.69	136.36	136.77		136.85	0.006152	1.27	1.33	3.48	0.65
Quercio	19	Max WS	S_200_18	10.54	136.19	137.91		138.03	0.002155	1.53	6.88	5.00	0.42
Quercio	19	Max WS	SA_100_18	9.00	136.19	137.52		137.68	0.003722	1.79	5.03	4.55	0.54
Quercio	19	Max WS	SA_30_18	6.83	136.19	137.21		137.38	0.005249	1.87	3.65	4.19	0.64
Quercio	19	Max WS	SA_20_18	1.69	136.19	136.68		136.74	0.003417	1.04	1.62	3.58	0.49
Quercio	18	Max WS	S_200_18	10.54	136.14	137.90		137.98	0.001327	1.26	8.39	6.51	0.35
Quercio	18	Max WS	SA_100_18	9.00	136.14	137.48		137.61	0.002624	1.54	5.83	5.68	0.49
Quercio	18	Max WS	SA_30_18	6.83	136.14	137.08		137.26	0.005349	1.84	3.71	4.88	0.67
Quercio	18	Max WS	SA_20_18	1.69	136.14	136.58		136.64	0.004403	1.11	1.52	3.88	0.57
Quercio	17.99			Lat Struct									
Quercio	17.98			Lat Struct									
Quercio	17	Max WS	S_200_18	10.54	135.86	137.87		137.93	0.000804	1.04	10.09	7.03	0.28
Quercio	17	Max WS	SA_100_18	8.99	135.86	137.42		137.50	0.001537	1.27	7.08	6.11	0.38
Quercio	17	Max WS	SA_30_18	6.83	135.86	136.83		136.99	0.004812	1.77	3.85	4.94	0.64
Quercio	17	Max WS	SA_20_18	1.22	135.86	136.47		136.48	0.000778	0.56	2.20	4.22	0.25

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	16	Max WS	S_200_18	10.54	135.67	137.86		137.92	0.000570	1.00	10.52	6.69	0.25
Quercio	16	Max WS	SA_100_18	8.99	135.67	137.40		137.47	0.001081	1.20	7.52	6.22	0.35
Quercio	16	Max WS	SA_30_18	6.83	135.67	136.79		136.92	0.002584	1.59	4.29	4.61	0.53
Quercio	16	Max WS	SA_20_18	1.22	135.67	136.46		136.47	0.000273	0.43	2.85	4.29	0.17
Quercio	15	Max WS	S_200_18	10.54	135.62	137.84		137.90	0.000703	1.13	9.36	5.42	0.27
Quercio	15	Max WS	SA_100_18	8.99	135.62	137.36		137.45	0.001166	1.30	6.90	4.94	0.35
Quercio	15	Max WS	SA_30_18	6.83	135.62	136.71		136.86	0.003153	1.74	3.92	4.19	0.58
Quercio	15	Max WS	SA_20_18	1.22	135.62	136.46		136.47	0.000236	0.42	2.91	3.94	0.16
Quercio	14	Max WS	S_200_18	10.54	135.57	137.83		137.89	0.000657	1.10	9.59	5.46	0.26
Quercio	14	Max WS	SA_100_18	7.00	135.57	137.35		137.40	0.000652	0.98	7.10	4.98	0.26
Quercio	14	Max WS	SA_30_18	6.83	135.57	136.64		136.80	0.003300	1.77	3.85	4.18	0.59
Quercio	14	Max WS	SA_20_18	1.22	135.57	136.46		136.47	0.000196	0.39	3.10	4.00	0.14
Quercio	13	Max WS	S_200_18	8.07	135.52	137.82		137.85	0.000363	0.82	9.81	5.50	0.20
Quercio	13	Max WS	SA_100_18	7.00	135.52	137.34		137.39	0.000607	0.96	7.29	5.02	0.25
Quercio	13	Max WS	SA_30_18	6.82	135.52	136.57		136.74	0.003498	1.81	3.77	4.15	0.61
Quercio	13	Max WS	SA_20_18	1.22	135.52	136.46		136.46	0.000166	0.37	3.29	4.04	0.13
Quercio	12	Max WS	S_200_18	10.54	135.47	137.83		137.87	0.000430	0.91	11.63	6.85	0.22
Quercio	12	Max WS	SA_100_18	7.00	135.47	137.35		137.38	0.000469	0.83	8.44	6.37	0.23
Quercio	12	Max WS	SA_30_18	6.82	135.47	136.54		136.68	0.003018	1.68	4.06	4.56	0.57
Quercio	12	Max WS	SA_20_18	1.23	135.47	136.45		136.46	0.000130	0.33	3.68	4.48	0.12
Quercio	11	Max WS	S_200_18	10.54	135.31	137.83		137.86	0.000337	0.76	13.94	8.05	0.18
Quercio	11	Max WS	SA_100_18	7.00	135.31	137.35		137.37	0.000338	0.68	10.28	7.08	0.18
Quercio	11	Max WS	SA_30_18	6.81	135.31	136.55		136.64	0.001997	1.29	5.27	5.48	0.42
Quercio	11	Max WS	SA_20_18	1.23	135.31	136.45		136.46	0.000087	0.26	4.74	5.29	0.09
Quercio	10	Max WS	S_200_18	10.42	135.05	137.83		137.85	0.000225	0.65	16.04	8.50	0.15
Quercio	10	Max WS	SA_100_18	7.00	135.05	137.34		137.36	0.000216	0.58	12.12	7.58	0.15
Quercio	10	Max WS	SA_30_18	6.80	135.05	136.50		136.55	0.001148	1.06	6.43	5.89	0.32
Quercio	10	Max WS	SA_20_18	1.22	135.05	136.45		136.45	0.000042	0.20	6.18	5.81	0.06
Quercio	09.1	Max WS	S_200_18	10.15	134.93	137.83		137.84	0.000181	0.60	17.03	8.61	0.14
Quercio	09.1	Max WS	SA_100_18	6.99	134.93	137.34		137.35	0.000179	0.54	13.00	7.81	0.13
Quercio	09.1	Max WS	SA_30_18	5.34	134.93	136.48		136.51	0.000546	0.76	7.06	6.10	0.22

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	09.1	Max WS	SA_20_18	1.22	134.93	136.45		136.45	0.000031	0.18	6.87	6.03	0.05
Quercio	09	Max WS	S_200_18	9.90	134.81	137.83		137.84	0.000146	0.55	18.10	8.72	0.12
Quercio	09	Max WS	SA_100_18	6.99	134.81	137.34		137.35	0.000148	0.50	13.95	8.05	0.12
Quercio	09	Max WS	SA_30_18	5.32	134.81	136.48		136.50	0.000416	0.68	7.78	6.33	0.20
Quercio	09	Max WS	SA_20_18	1.22	134.81	136.45		136.45	0.000023	0.16	7.61	6.28	0.05
Quercio	08	Max WS	S_200_18	9.04	134.54	137.83		137.84	0.000086	0.44	20.36	8.43	0.09
Quercio	08	Max WS	SA_100_18	6.82	134.54	137.33		137.34	0.000093	0.42	16.21	8.43	0.10
Quercio	08	Max WS	SA_30_18	5.32	134.54	136.47		136.48	0.000240	0.56	9.53	6.87	0.15
Quercio	08	Max WS	SA_20_18	1.22	134.54	136.45		136.45	0.000013	0.13	9.41	6.83	0.04
Quercio	07.1	Max WS	S_200_18	8.77	134.44	137.83		137.83	0.000072	0.41	21.31	8.62	0.08
Quercio	07.1	Max WS	SA_100_18	5.69	134.44	137.34		137.34	0.000056	0.33	17.11	8.62	0.08
Quercio	07.1	Max WS	SA_30_18	5.32	134.44	136.46		136.48	0.000200	0.52	10.19	7.06	0.14
Quercio	07.1	Max WS	SA_20_18	1.22	134.44	136.45		136.45	0.000011	0.12	10.09	7.04	0.03
Quercio	07	Max WS	S_200_18	8.52	134.26	137.83		137.83	0.000059	0.33	25.68	13.74	0.08
Quercio	07	Max WS	SA_100_18	4.45	134.26	137.34		137.34	0.000040	0.23	19.02	13.74	0.06
Quercio	07	Max WS	SA_30_18	5.32	134.26	136.46		136.47	0.000146	0.46	11.44	7.38	0.12
Quercio	07	Max WS	SA_20_18	1.22	134.26	136.45		136.45	0.000008	0.11	11.35	7.36	0.03
Quercio	06	Max WS	S_200_18	8.41	133.92	137.82		137.83	0.000035	0.29	28.69	12.01	0.06
Quercio	06	Max WS	SA_100_18	-4.45	133.92	137.34		137.34	0.000019	-0.19	22.90	12.01	0.04
Quercio	06	Max WS	SA_30_18	5.33	133.92	136.46		136.47	0.000084	0.38	14.05	8.08	0.09
Quercio	06	Max WS	SA_20_18	1.21	133.92	136.45		136.45	0.000004	0.09	13.98	8.06	0.02
Quercio	05.8	Max WS	S_200_18	8.39	133.89	137.82		137.83	0.000018	0.24	35.53	10.82	0.04
Quercio	05.8	Max WS	SA_100_18	-10.64	133.89	137.33		137.34	0.000045	-0.35	30.20	10.80	0.07
Quercio	05.8	Max WS	SA_30_18	5.33	133.89	136.46		136.46	0.000030	0.25	21.20	9.78	0.05
Quercio	05.8	Max WS	SA_20_18	1.21	133.89	136.45		136.45	0.000002	0.06	21.09	9.76	0.01
Quercio	05.5	Max WS	S_200_18	8.40	133.85	137.82		137.83	0.000038	0.31	26.69	10.32	0.06
Quercio	05.5	Max WS	SA_100_18	-10.68	133.85	137.31		137.32	0.000111	-0.50	21.52	9.72	0.11
Quercio	05.5	Max WS	SA_30_18	5.33	133.85	136.46		136.46	0.000089	0.38	13.87	8.01	0.09
Quercio	05.5	Max WS	SA_20_18	1.21	133.85	136.45		136.45	0.000005	0.09	13.83	7.99	0.02
Quercio	05	Max WS	S_200_18	9.15	133.46	137.82		137.83	0.000027	0.26	34.64	14.65	0.05

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	05	Max WS	SA_100_18	-16.43	133.46	137.31		137.33	0.000162	-0.60	27.43	13.32	0.13
Quercio	05	Max WS	SA_30_18	5.33	133.46	136.46		136.46	0.000048	0.31	17.41	8.84	0.07
Quercio	05	Max WS	SA_20_18	1.21	133.46	136.45		136.45	0.000002	0.07	17.35	8.83	0.02
Quercio	04.8	Max WS	S_200_18	9.57	133.44	137.82		137.82	0.000026	0.26	36.51	15.21	0.05
Quercio	04.8	Max WS	SA_100_18	-17.34	133.44	137.32		137.34	0.000161	-0.59	29.19	14.07	0.13
Quercio	04.8	Max WS	SA_30_18	5.34	133.44	136.46		136.46	0.000041	0.29	18.30	8.93	0.07
Quercio	04.8	Max WS	SA_20_18	1.21	133.44	136.45		136.45	0.000002	0.07	18.25	8.92	0.01
Quercio	04.6	Max WS	S_200_18	2.78	133.44	137.82		137.82	0.000003	0.08	33.35	13.72	0.02
Quercio	04.6	Max WS	SA_100_18	-16.39	133.44	137.33		137.34	0.000182	-0.61	26.83	12.70	0.13
Quercio	04.6	Max WS	SA_30_18	5.34	133.44	136.45		136.46	0.000075	0.32	16.55	10.87	0.08
Quercio	04.6	Max WS	SA_20_18	1.21	133.44	136.45		136.45	0.000003	0.07	16.50	7.72	0.02
Quercio	04.5	Max WS	S_200_18	10.18	133.43	137.82		137.82	0.000023	0.25	40.46	16.19	0.05
Quercio	04.5	Max WS	SA_100_18	-16.32	133.43	137.33		137.35	0.000107	-0.50	32.81	15.31	0.11
Quercio	04.5	Max WS	SA_30_18	5.31	133.43	136.46		136.46	0.000048	0.27	20.05	13.73	0.07
Quercio	04.5	Max WS	SA_20_18	1.18	133.43	136.45		136.45	0.000002	0.06	19.98	13.72	0.02
Quercio	04	Max WS	S_200_18	10.54	133.43	137.82		137.82	0.000025	0.26	40.45	16.19	0.05
Quercio	04	Max WS	SA_100_18	-16.26	133.43	137.34		137.35	0.000106	-0.50	32.83	15.31	0.11
Quercio	04	Max WS	SA_30_18	5.16	133.43	136.45		136.46	0.000056	0.52	9.93	13.71	0.10
Quercio	04	Max WS	SA_20_18	1.02	133.43	136.45		136.45	0.000002	0.10	9.95	13.72	0.02
Quercio	03.6	Max WS	S_200_18	0.98	133.43	137.82	133.62	137.82	0.000001	0.06	16.67	3.80	0.01
Quercio	03.6	Max WS	SA_100_18	-9.34	133.43	137.31		137.33	0.000140	-0.63	14.74	3.80	0.10
Quercio	03.6	Max WS	SA_30_18	5.16	133.43	136.45	134.00	136.46	0.000080	0.45	11.47	3.80	0.08
Quercio	03.6	Max WS	SA_20_18	1.02	133.43	136.45	133.62	136.45	0.000003	0.09	11.48	3.80	0.02
Quercio	03.5			Bridge									
Quercio	03.4	Max WS	S_200_18	0.98	133.43	137.82		137.82	0.000001	0.06	16.67	3.80	0.01
Quercio	03.4	Max WS	SA_100_18	-9.34	133.43	137.31		137.33	0.000140	-0.63	14.75	3.80	0.10
Quercio	03.4	Max WS	SA_30_18	5.16	133.43	136.45		136.46	0.000080	0.45	11.47	3.80	0.08
Quercio	03.4	Max WS	SA_20_18	1.02	133.43	136.45		136.45	0.000003	0.09	11.48	3.80	0.02
Quercio	03	Max WS	S_200_18	2.55	133.43	137.82		137.82	0.000002	0.08	32.21	9.74	0.01
Quercio	03	Max WS	SA_100_18	-16.11	133.43	137.33		137.35	0.000128	-0.59	27.50	9.74	0.11

HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

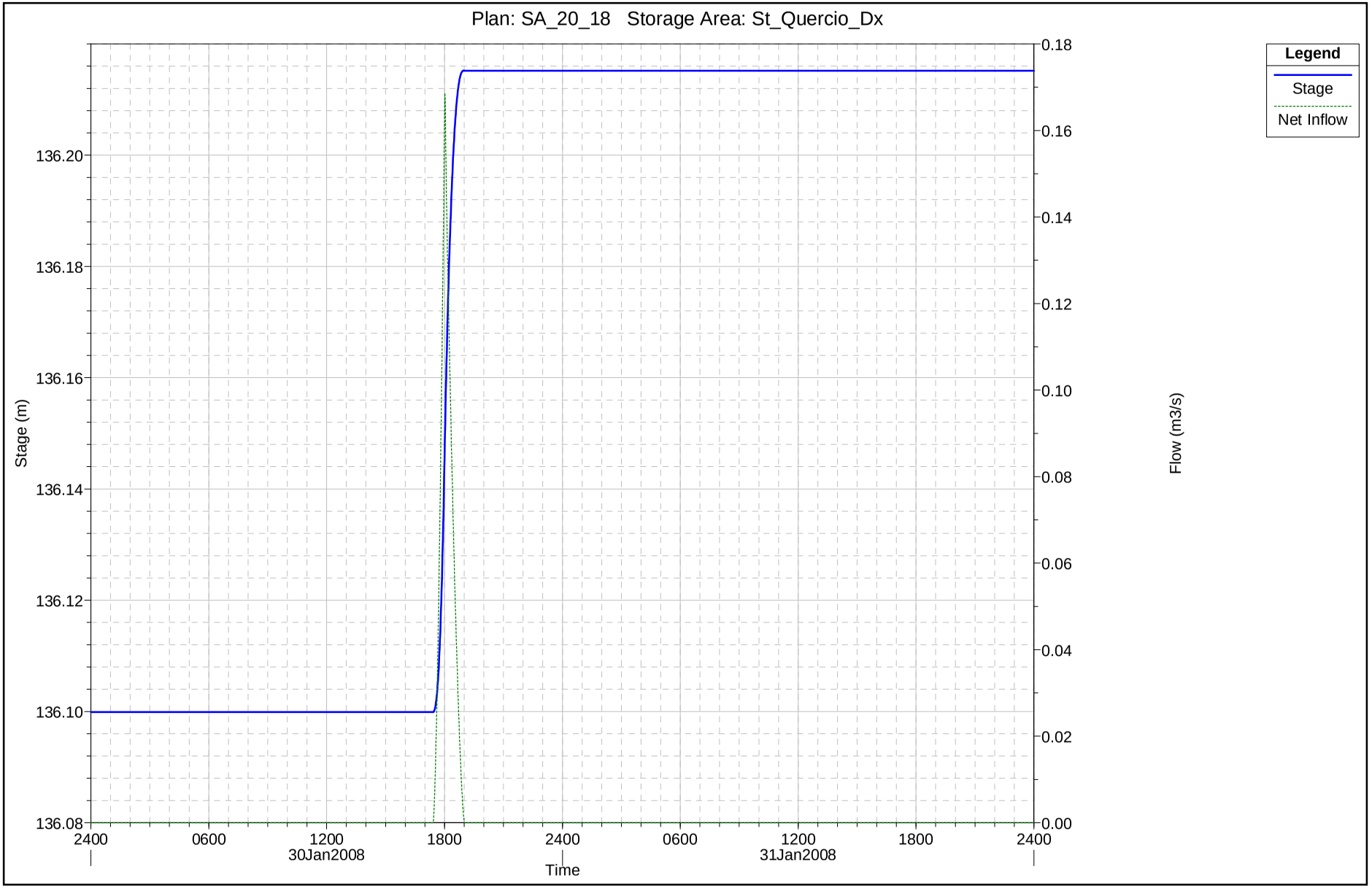
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	03	Max WS	SA_30_18	5.16	133.43	136.46		136.46	0.000038	0.27	18.94	9.74	0.06
Quercio	03	Max WS	SA_20_18	1.02	133.43	136.45		136.45	0.000002	0.05	18.89	9.74	0.01
Quercio	02	Max WS	S_200_18	1.77	133.43	137.81		137.81	0.000001	0.06	30.56	9.72	0.01
Quercio	02	Max WS	SA_100_18	-16.78	133.43	137.34		137.36	0.000170	-0.65	25.99	9.72	0.13
Quercio	02	Max WS	SA_30_18	5.16	133.43	136.45		136.46	0.000052	0.30	17.33	9.67	0.07
Quercio	02	Max WS	SA_20_18	1.00	133.43	136.45		136.45	0.000002	0.06	17.31	9.66	0.01
Quercio	01.9	Max WS	S_200_18	1.77	133.42	137.81		137.81	0.000001	0.06	28.69	8.83	0.01
Quercio	01.9	Max WS	SA_100_18	-16.78	133.42	137.35		137.37	0.000189	-0.68	24.56	8.83	0.13
Quercio	01.9	Max WS	SA_30_18	5.16	133.42	136.45		136.46	0.000052	0.31	16.68	8.45	0.07
Quercio	01.9	Max WS	SA_20_18	1.00	133.42	136.45		136.45	0.000002	0.06	16.67	8.45	0.01
Quercio	01.8	Max WS	S_200_18	3.05	133.41	137.81		137.81	0.000003	0.09	33.68	11.22	0.02
Quercio	01.8	Max WS	SA_100_18	-16.78	133.41	137.35		137.37	0.000136	-0.59	28.52	11.22	0.12
Quercio	01.8	Max WS	SA_30_18	5.16	133.41	136.45		136.46	0.000041	0.28	18.47	9.89	0.07
Quercio	01.8	Max WS	SA_20_18	1.00	133.41	136.45		136.45	0.000002	0.05	18.45	9.86	0.01
Quercio	01.7	Max WS	S_200_18	10.53	133.41	137.81		137.82	0.000032	0.31	33.69	10.49	0.06
Quercio	01.7	Max WS	SA_100_18	-16.78	133.41	137.35		137.37	0.000127	-0.58	28.88	10.49	0.11
Quercio	01.7	Max WS	SA_30_18	5.16	133.41	136.45		136.46	0.000038	0.27	19.41	10.49	0.06
Quercio	01.7	Max WS	SA_20_18	1.00	133.41	136.45		136.45	0.000001	0.05	19.39	10.49	0.01
Quercio	01.6	Max WS	S_200_18	1.24	133.40	137.81		137.81	0.000001	0.04	27.70	7.94	0.01
Quercio	01.6	Max WS	SA_100_18	-16.78	133.40	137.35		137.37	0.000188	-0.70	24.01	7.94	0.13
Quercio	01.6	Max WS	SA_30_18	5.16	133.40	136.45		136.46	0.000047	0.31	16.89	7.94	0.07
Quercio	01.6	Max WS	SA_20_18	1.00	133.40	136.45		136.45	0.000002	0.06	16.88	7.94	0.01
Quercio	01.5	Max WS	S_200_18	0.98	133.40	137.81		137.81	0.000000	0.04	27.55	7.87	0.01
Quercio	01.5	Max WS	SA_100_18	-16.78	133.40	137.35		137.37	0.000191	-0.70	23.90	7.87	0.13
Quercio	01.5	Max WS	SA_30_18	5.16	133.40	136.45		136.46	0.000047	0.31	16.84	7.87	0.07
Quercio	01.5	Max WS	SA_20_18	1.00	133.40	136.45		136.45	0.000002	0.06	16.83	7.87	0.01
Quercio	01.4	Max WS	S_200_18	0.98	133.40	137.81		137.81	0.000000	0.04	27.57	7.81	0.01
Quercio	01.4	Max WS	SA_100_18	-16.78	133.40	137.35		137.37	0.000189	-0.70	23.96	7.81	0.13
Quercio	01.4	Max WS	SA_30_18	5.16	133.40	136.45		136.46	0.000046	0.30	16.94	7.81	0.07
Quercio	01.4	Max WS	SA_20_18	1.00	133.40	136.45		136.45	0.000002	0.06	16.93	7.81	0.01

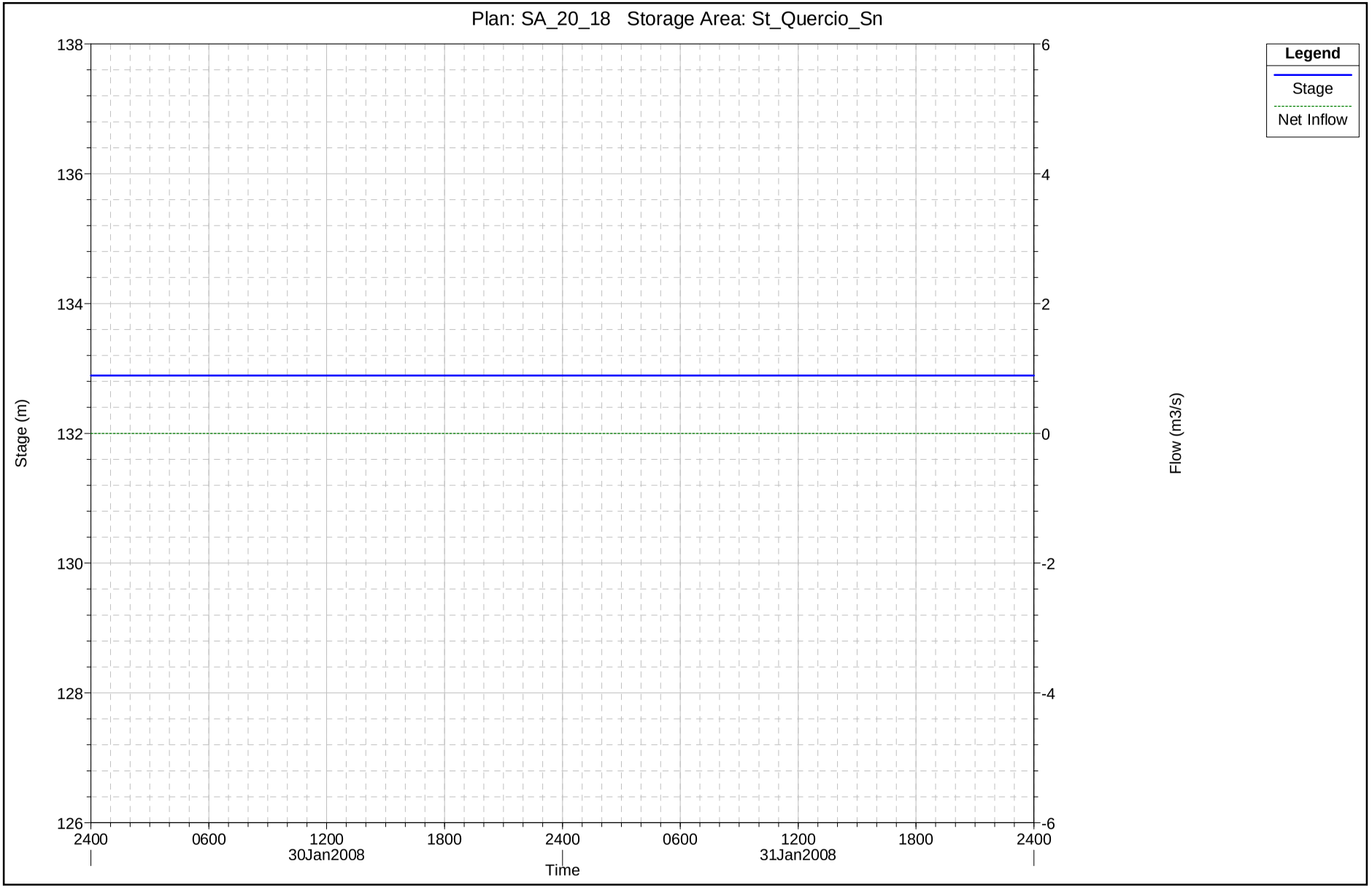
HEC-RAS River: Quercio Reach: Quercio Profile: Max WS (Continued)

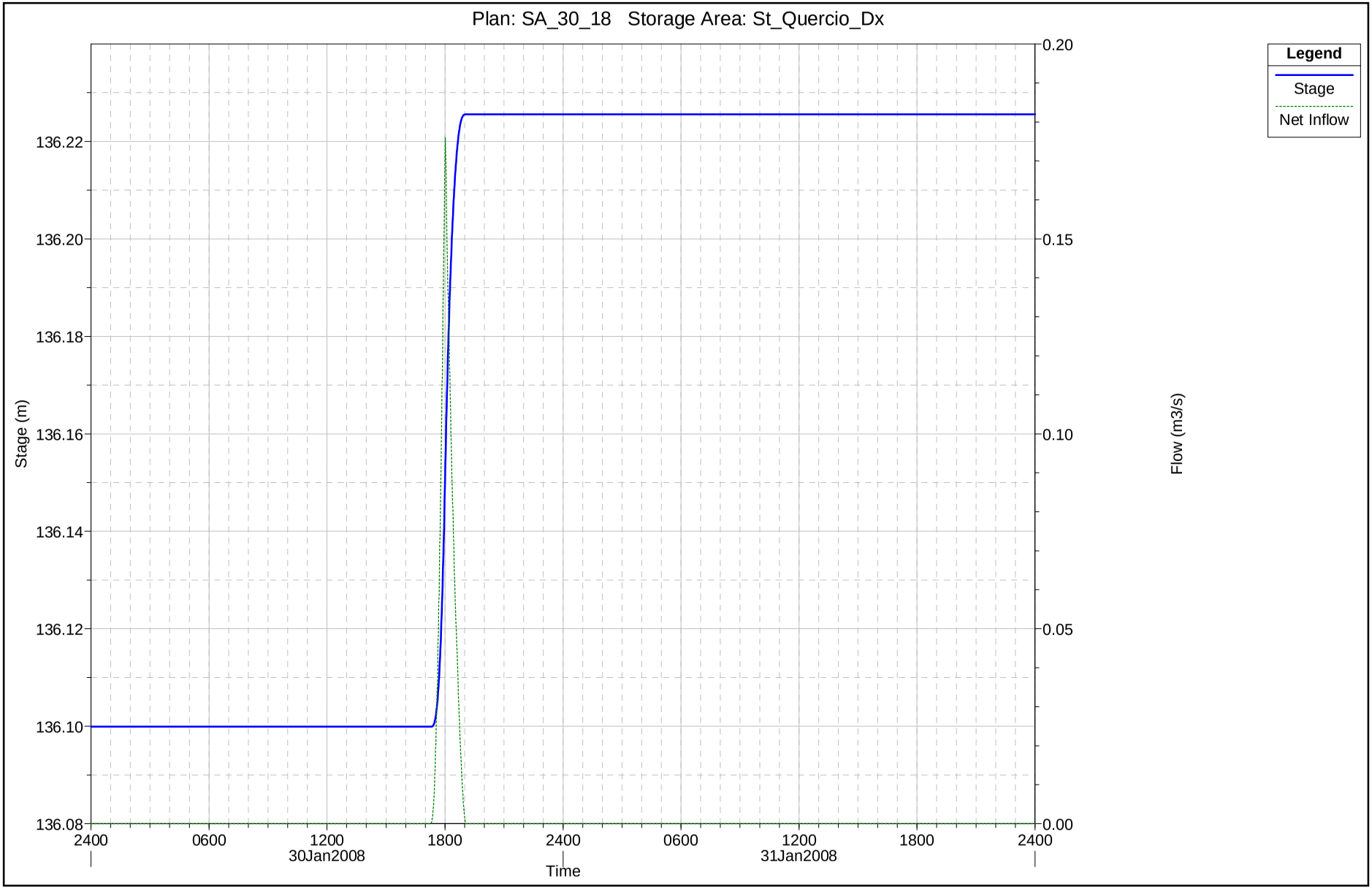
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Quercio	01.3	Max WS	S_200_18	0.72	133.39	137.81		137.81	0.000000	0.03	27.73	7.78	0.00
Quercio	01.3	Max WS	SA_100_18	-16.78	133.39	137.35		137.38	0.000185	-0.69	24.15	7.78	0.13
Quercio	01.3	Max WS	SA_30_18	5.16	133.39	136.45		136.46	0.000045	0.30	17.14	7.78	0.06
Quercio	01.3	Max WS	SA_20_18	1.00	133.39	136.45		136.45	0.000002	0.06	17.14	7.78	0.01
Quercio	01.2	Max WS	S_200_18	1.77	133.39	137.81		137.81	0.000001	0.06	30.42	9.18	0.01
Quercio	01.2	Max WS	SA_100_18	-16.78	133.39	137.36		137.38	0.000162	-0.64	26.25	9.18	0.12
Quercio	01.2	Max WS	SA_30_18	5.16	133.39	136.45		136.45	0.000045	0.29	17.93	9.18	0.07
Quercio	01.2	Max WS	SA_20_18	1.00	133.39	136.45		136.45	0.000002	0.06	17.93	9.18	0.01
Quercio	01.1	Max WS	S_200_18	1.24	133.38	137.81		137.81	0.000001	0.04	31.75	10.10	0.01
Quercio	01.1	Max WS	SA_100_18	-16.78	133.38	137.36		137.38	0.000157	-0.62	27.19	10.10	0.12
Quercio	01.1	Max WS	SA_30_18	5.16	133.38	136.45		136.45	0.000049	0.29	18.02	9.98	0.07
Quercio	01.1	Max WS	SA_20_18	1.00	133.38	136.45		136.45	0.000002	0.06	18.01	9.98	0.01
Quercio	01	Max WS	S_200_18	-51.88	133.38	137.81	135.98	137.95	0.000966	-1.63	31.74	10.10	0.29
Quercio	01	Max WS	SA_100_18	-16.78	133.38	137.36	134.70	137.38	0.000157	-0.62	27.20	10.10	0.12
Quercio	01	Max WS	SA_30_18	5.16	133.38	136.45	134.01	136.45	0.000049	0.29	18.01	9.98	0.07
Quercio	01	Max WS	SA_20_18	0.99	133.38	136.45	133.60	136.45	0.000002	0.06	18.01	9.98	0.01

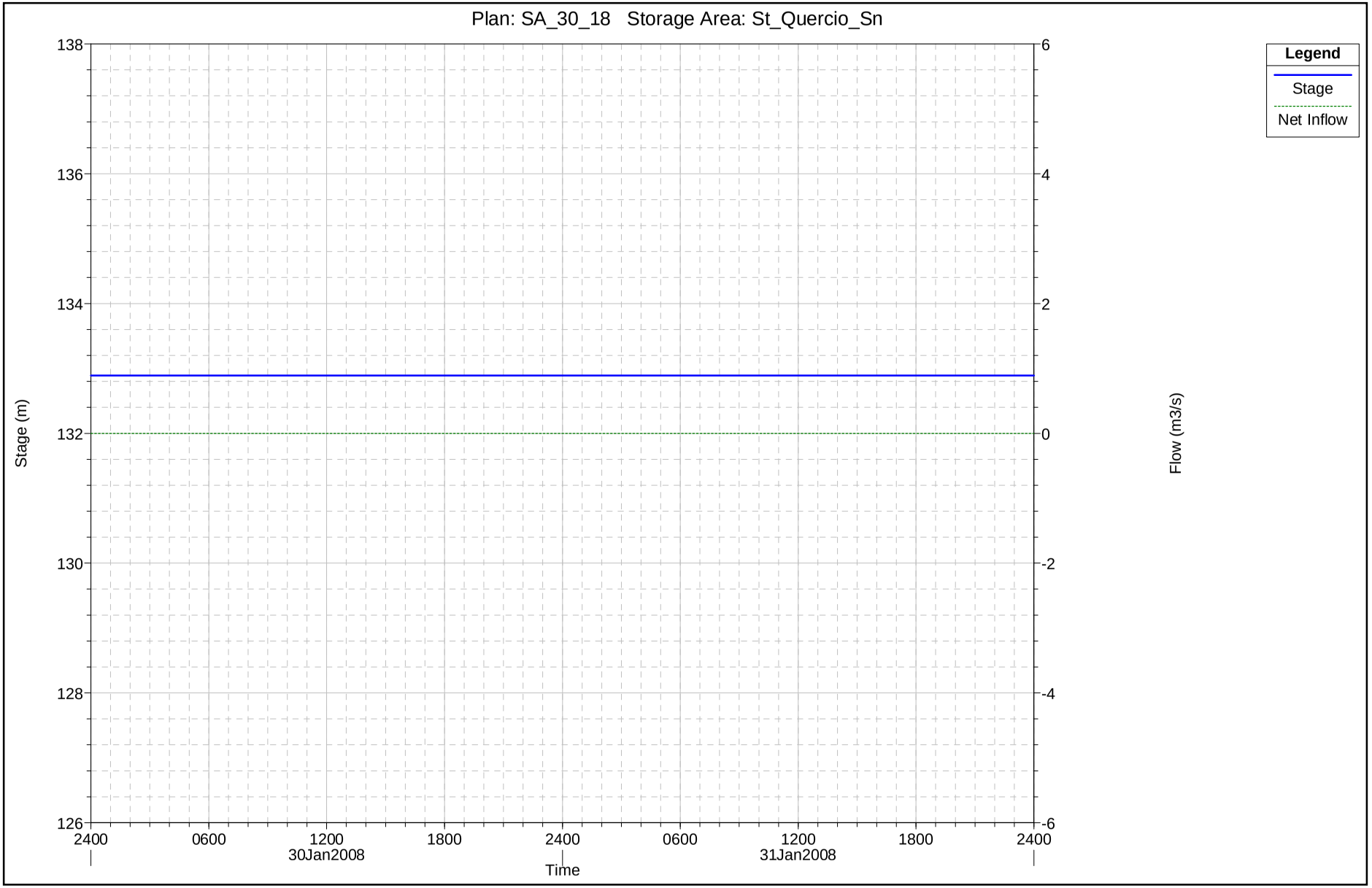
HEC-RAS Profile: Max WS

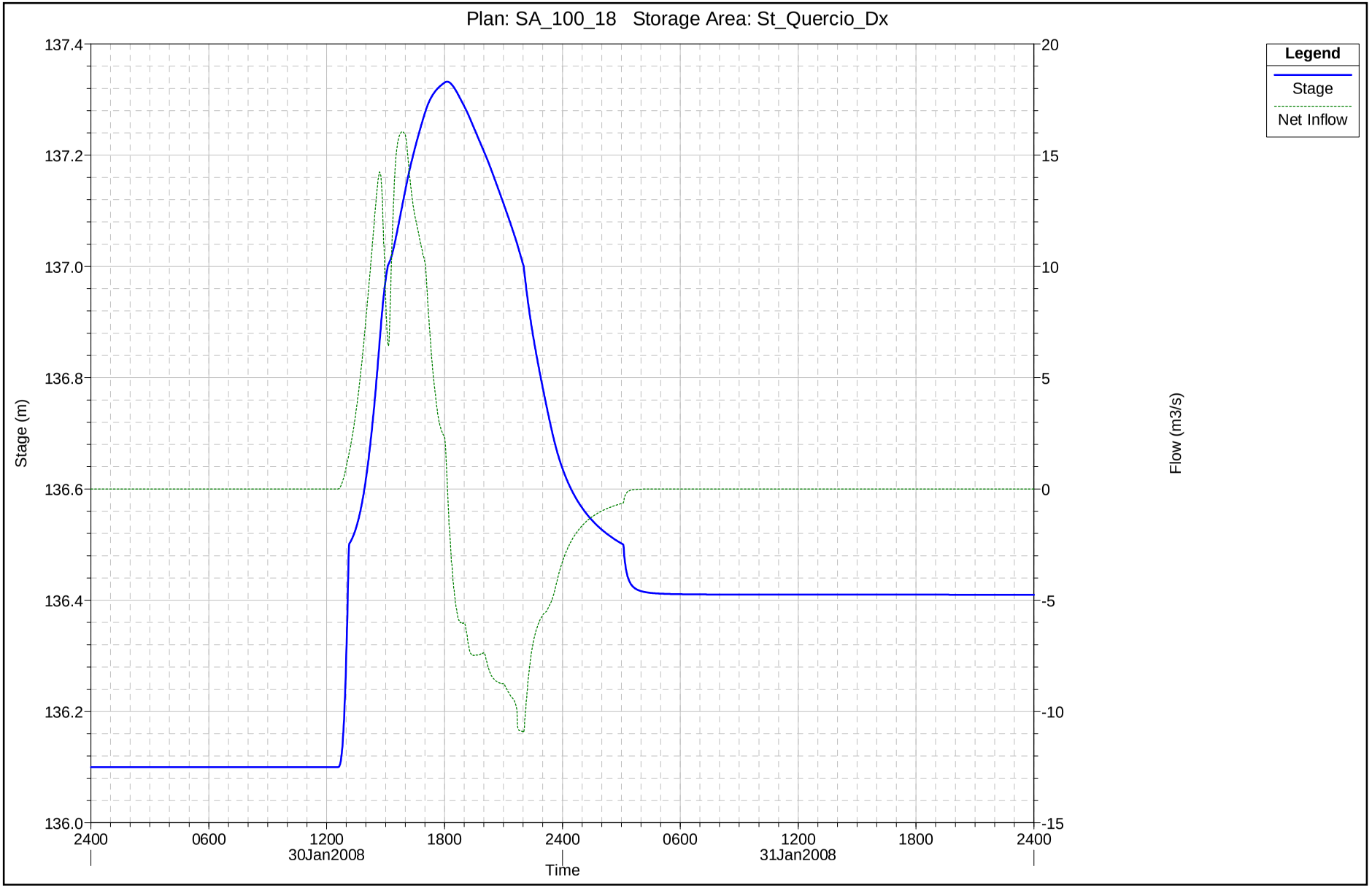
Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
St_Quercio_Dx	Max WS	S_200_18	137.82	136.10	0.16	483.12	376.26
St_Quercio_Dx	Max WS	SA_100_18	137.33	136.10	1.44	321.21	166.03
St_Quercio_Dx	Max WS	SA_30_18	136.23	136.10	0.18	3.24	0.41
St_Quercio_Dx	Max WS	SA_20_18	136.22	136.10	0.17	3.24	0.37
St_Quercio_Sn	Max WS	S_200_18	137.82	132.89	-0.18	708.60	1603.56
St_Quercio_Sn	Max WS	SA_100_18	135.59	132.89	21.85	439.64	247.55
St_Quercio_Sn	Max WS	SA_30_18	132.89	132.89	0.00	0.01	0.00
St_Quercio_Sn	Max WS	SA_20_18	132.89	132.89	0.00	0.01	0.00

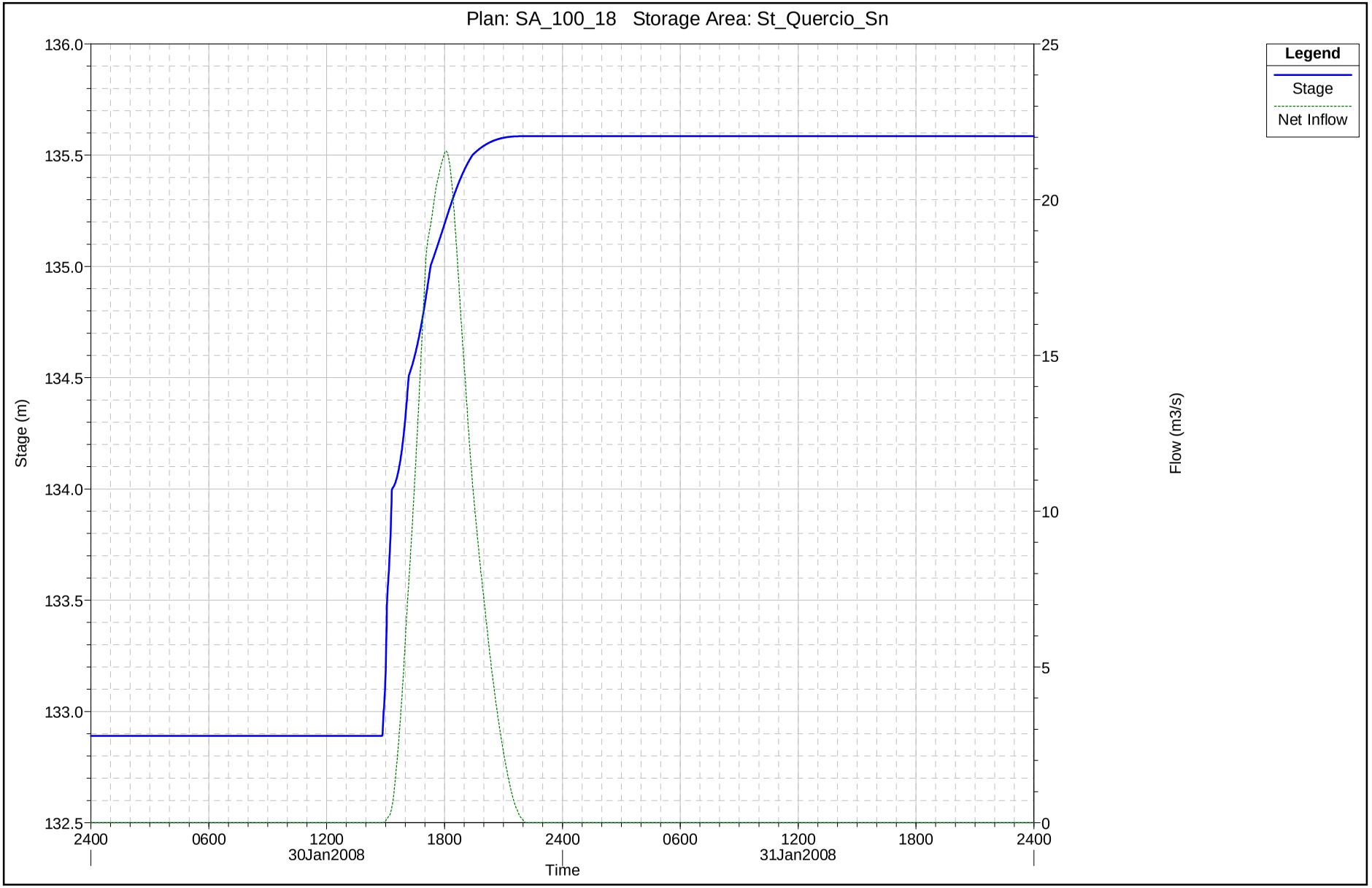

Plan: SA_20_18 Storage Area: St_Quercio_Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
136.20
136.18
136.16
136.14
136.12
136.10
136.08
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
2400
0600
1200
1800
2400
0600
1200
1800
2400
30Jan2008
31Jan2008
Time

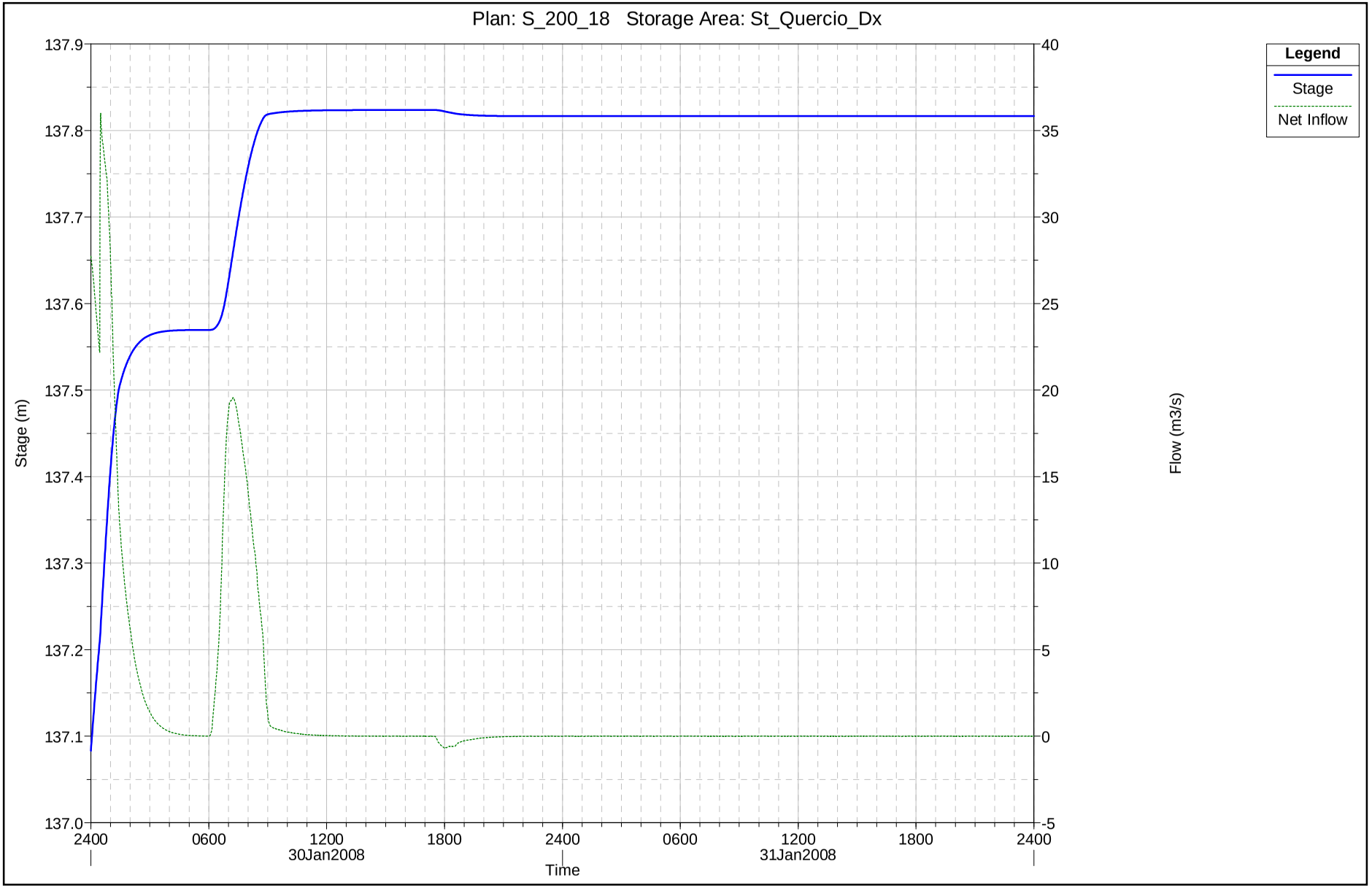

Plan: SA_20_18 Storage Area: St_Quercio_Sn
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
138
136
134
132
130
128
126
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
30Jan2008
31Jan2008
Time

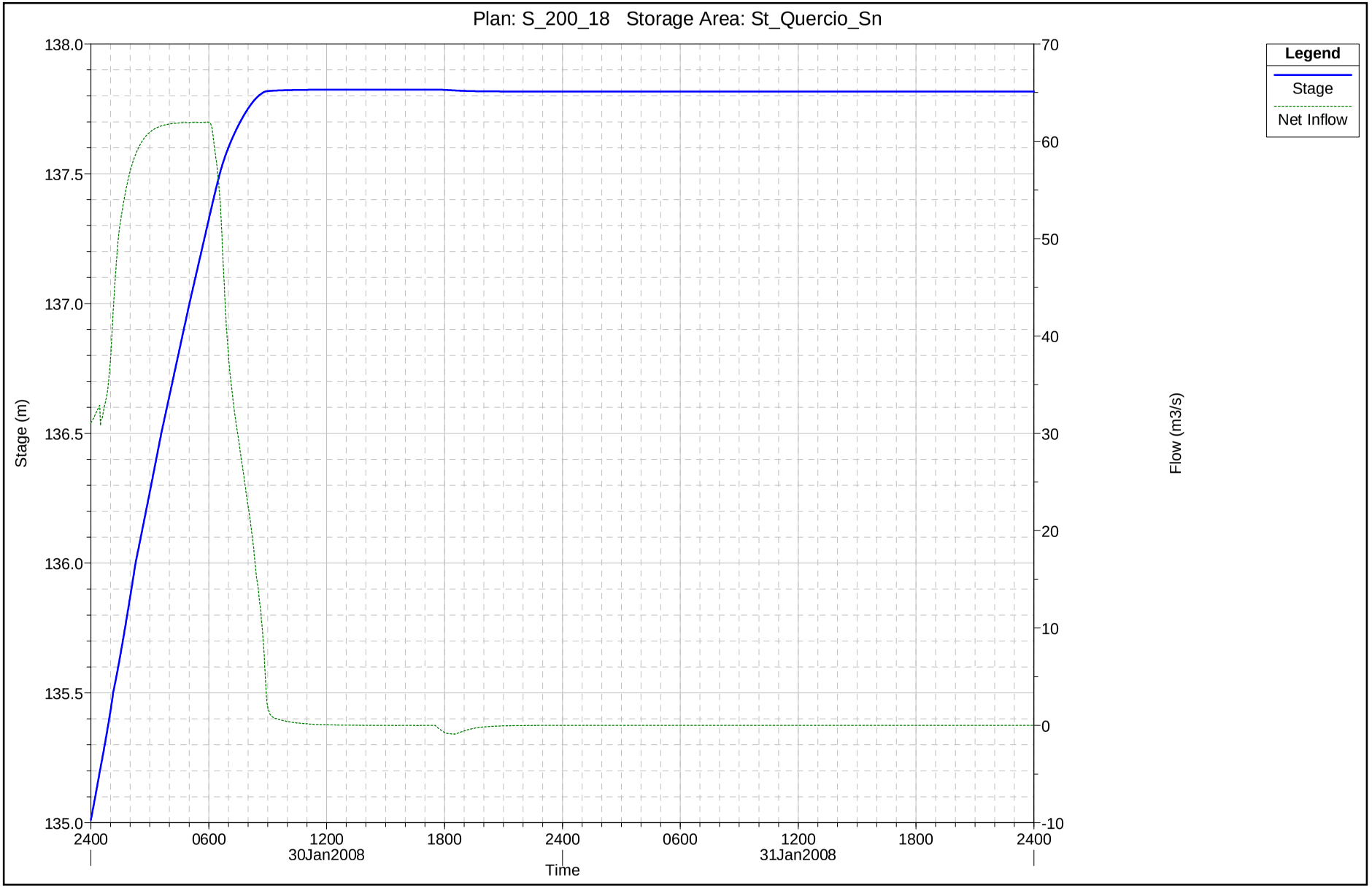

Plan: SA_30_18 Storage Area: St_Quercio_Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
136.22
136.20
136.18
136.16
136.14
136.12
136.10
136.08
0.20
0.15
0.10
0.05
0.00
2400
0600
1200
1800
2400
0600
1200
1800
2400
30Jan2008
31Jan2008
Time


Plan: SA_30_18 Storage Area: St_Quercio_Sn
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
138
136
134
132
130
128
126
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
30Jan2008
31Jan2008
Time


Plan: SA_100_18 Storage Area: St_Quercio_Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
137.4
137.2
137.0
136.8
136.6
136.4
136.2
136.0
20
15
10
5
0
-5
-10
-15
2400
0600
1200
1800
2400
0600
1200
1800
2400
30Jan2008
31Jan2008
Time


Plan: SA_100_18 Storage Area: St_Quercio_Sn
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
136.0
135.5
135.0
134.5
134.0
133.5
133.0
132.5
25
20
15
10
5
0
2400
0600
1200
1800
2400
0600
1200
1800
2400
30Jan2008
31Jan2008
Time


Plan: S_200_18 Storage Area: St_Quercio_Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
137.9
137.8
137.7
137.6
137.5
137.4
137.3
137.2
137.1
137.0
40
35
30
25
20
15
10
5
0
-5
2400
0600
1200
1800
2400
0600
1200
1800
2400
30Jan2008
31Jan2008
Time


Plan: S_200_18 Storage Area: St_Quercio_Sn
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
Time
138.0
137.5
137.0
136.5
136.0
135.5
135.0
70
60
50
40
30
20
10
0
-10
2400
0600
1200
1800
2400
0600
1200
1800
2400
30Jan2008
31Jan2008

borro dello Spedaluzzo

verifiche con Tpioggia critico per il Borro dello Spedaluzzo

- moto vario

  Tr=200, 100, 30 e 20 anni

  profilo

  livelli idrici nelle sezioni di verifica

  tabella di output del software Hec-ras 4.0

  livelli e portate in ingresso alle aree di accumulo

verifiche con Tpioggia critico per il Fiume Arno

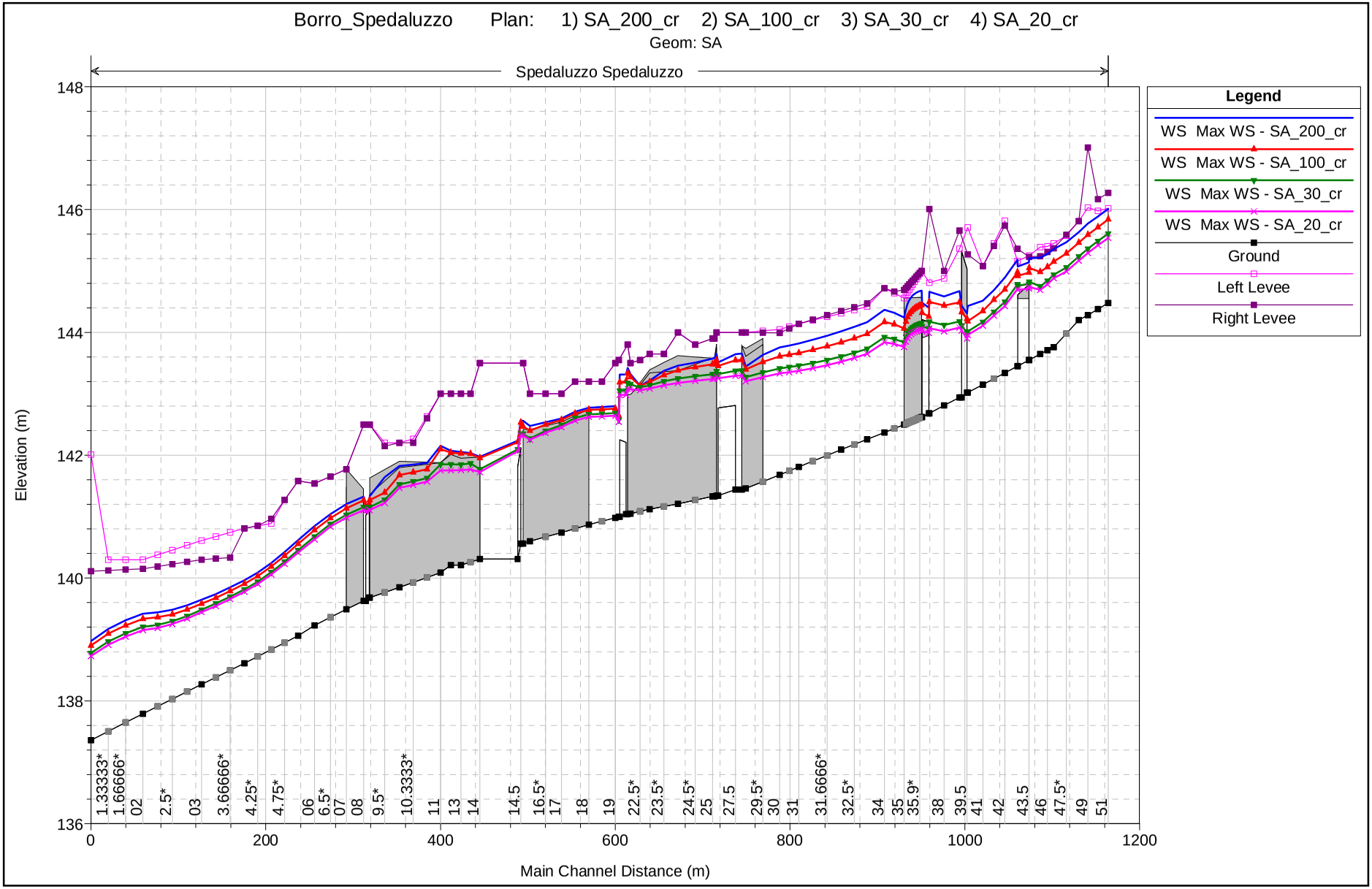
- moto permanente

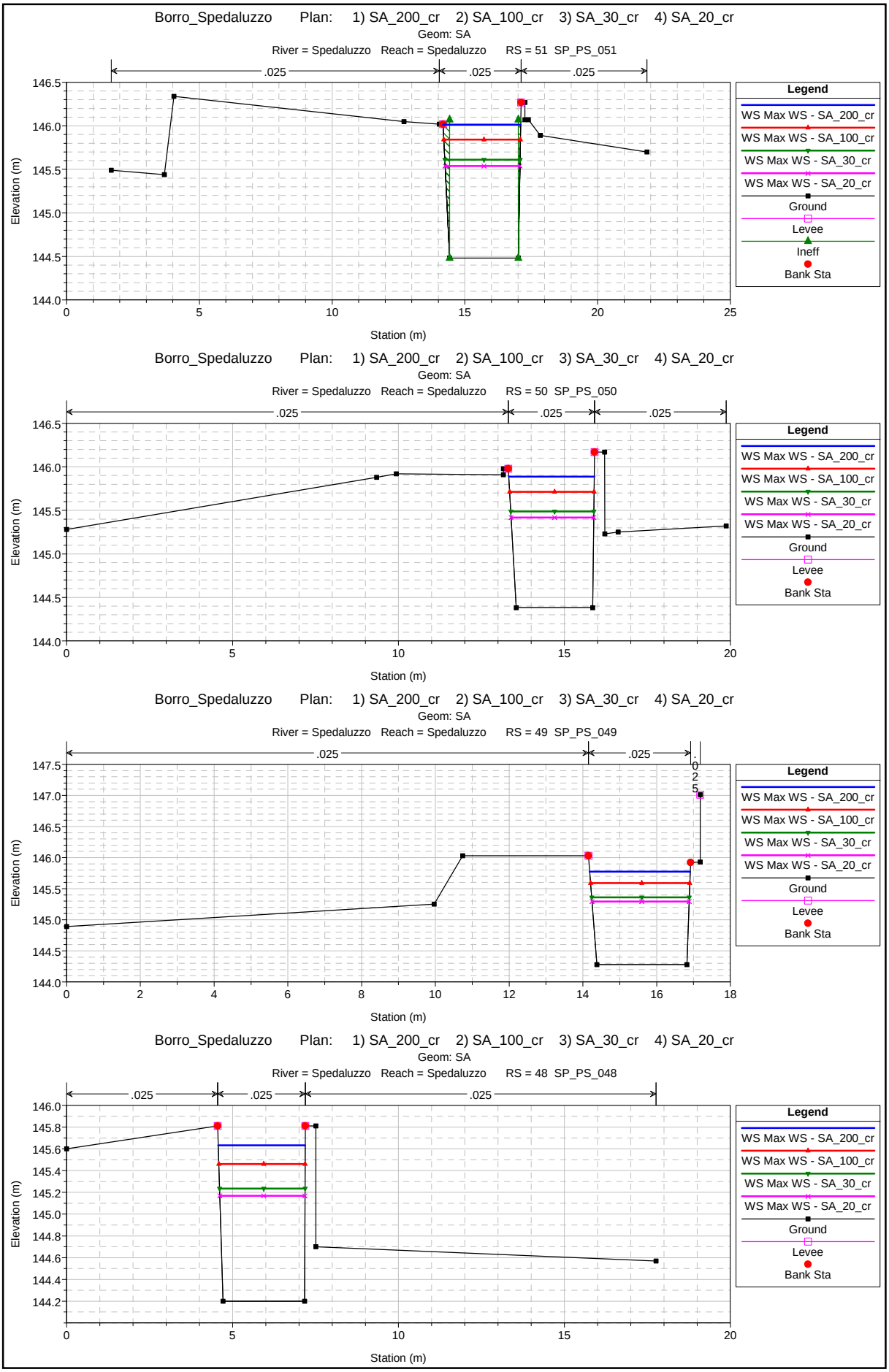
  Tr=200, 100, 30 e 20 anni

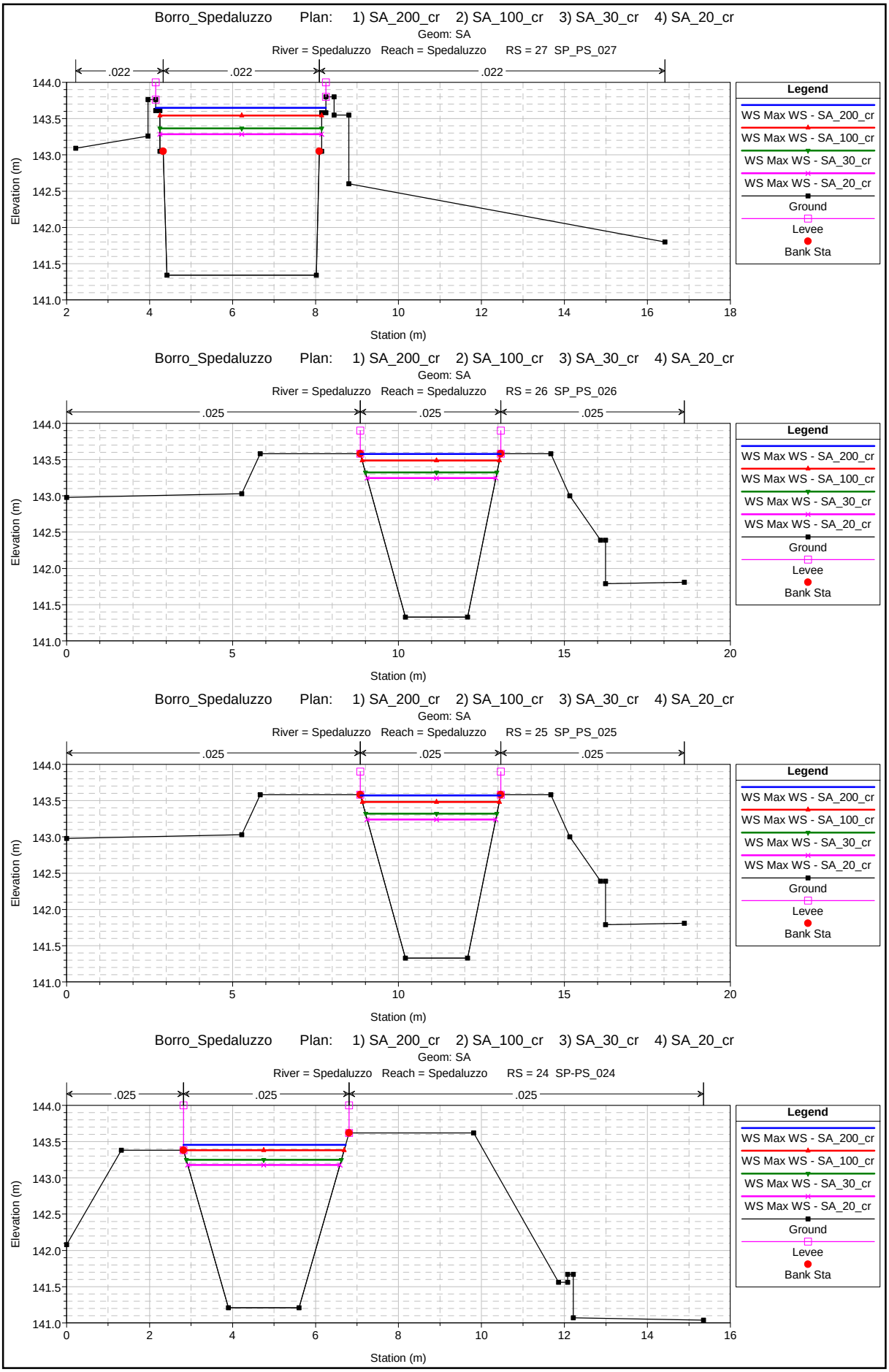
  profilo

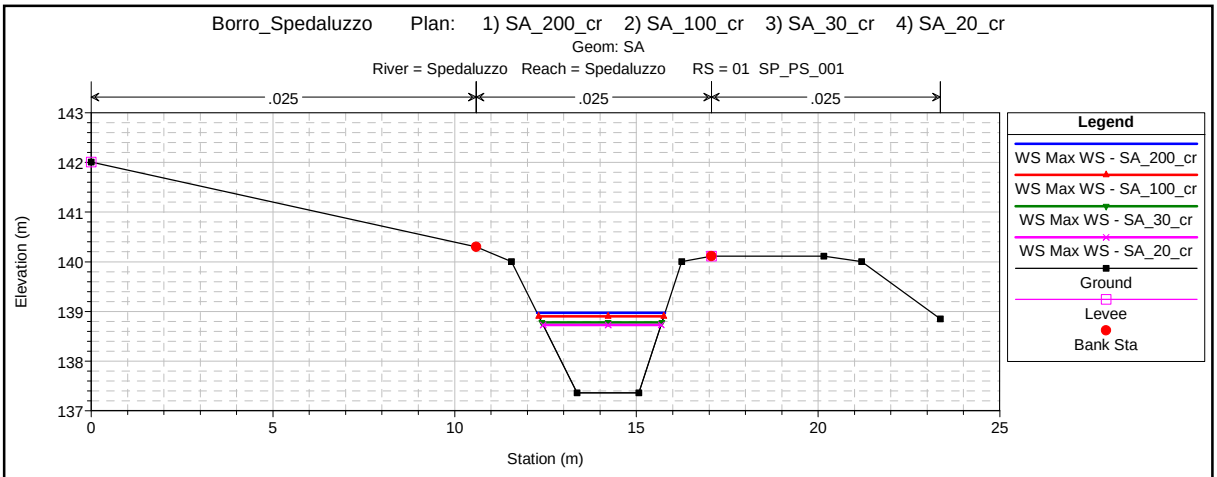
  livelli idrici nelle sezioni di verifica

  tabella di output del software Hec-ras 4.0


Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
Spedaluzzo Spedaluzzo
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Left Levee
Right Levee
Elevation (m)
148
146
144
142
140
138
136
0
200
400
600
800
1000
1200
Main Channel Distance (m)
1.33333*
1.66666*
02
2.5*
03
3.66666*
4.25*
4.75*
06
6.5*
07
08
9.5*
10.3333*
11
13
14
14.5
16.5*
17
18
19
22.5*
23.5*
24.5*
25
27.5
29.5*
30
31
31.6666*
32.5*
34
35
35.9*
38
39.5
41
42
43.5
46
47.5*
49
51


Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 51 SP_PS_051
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 50 SP_PS_050
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 49 SP_PS_049
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 48 SP_PS_048
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

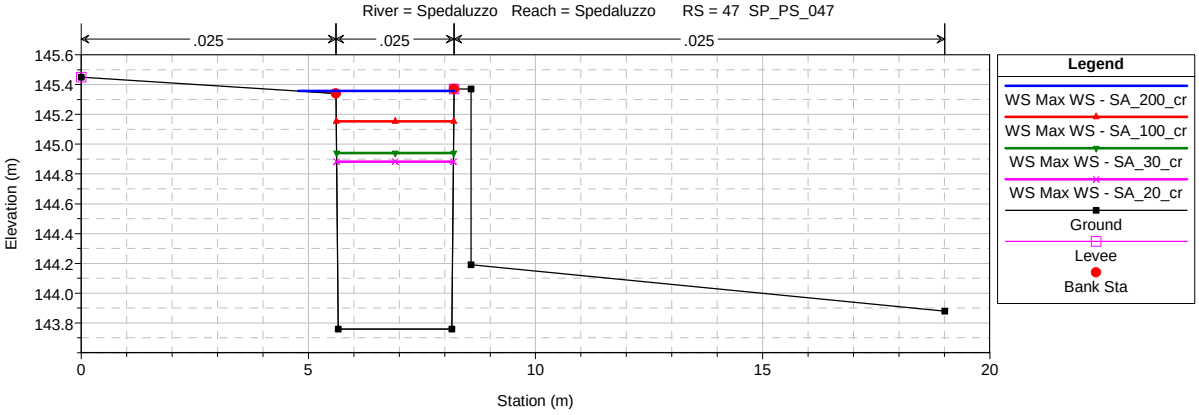

Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 27 SP_PS_027
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 26 SP_PS_026
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 25 SP_PS_025
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 24 SP-PS_024
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 01 SP_PS_001
.025
.025
.025
Elevation (m)
143
142
141
140
139
138
137
0
5
10
15
20
25
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

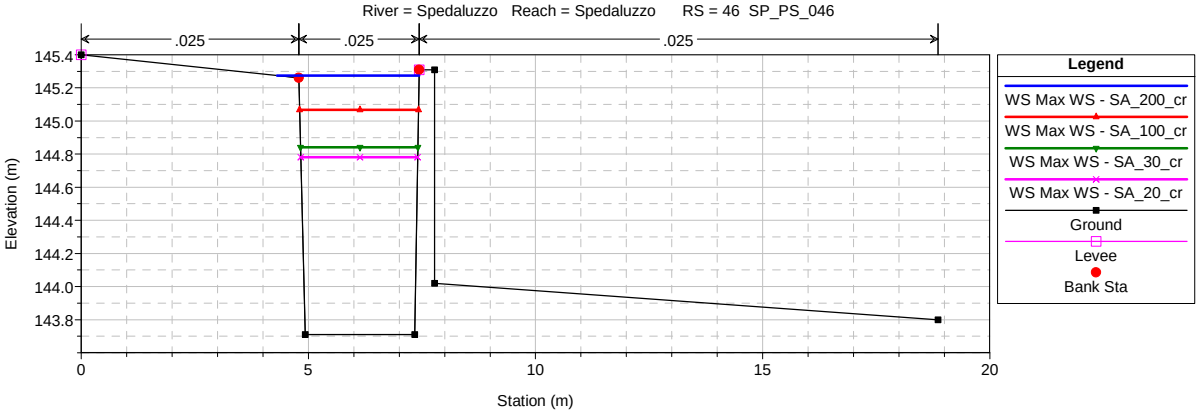
River = Spedaluzzo Reach = Spedaluzzo RS = 47 SP_PS_047



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

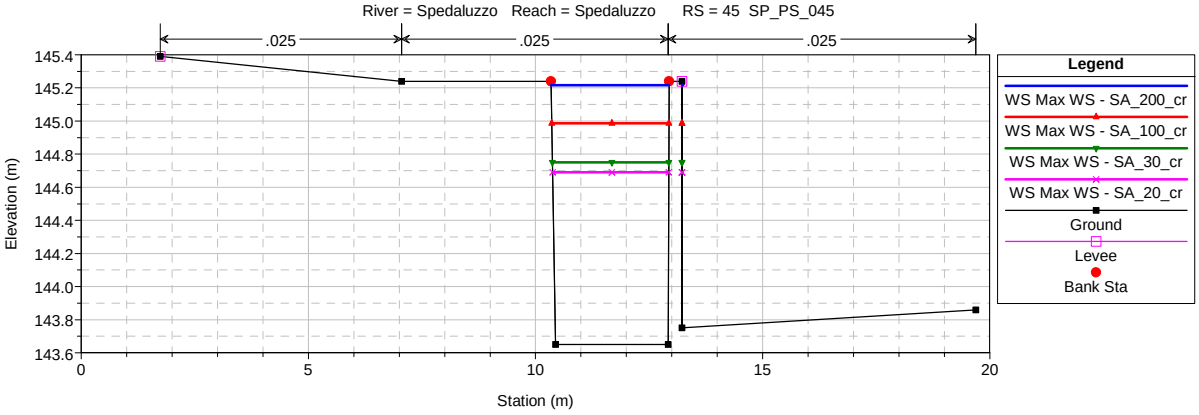
River = Spedaluzzo Reach = Spedaluzzo RS = 46 SP_PS_046



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

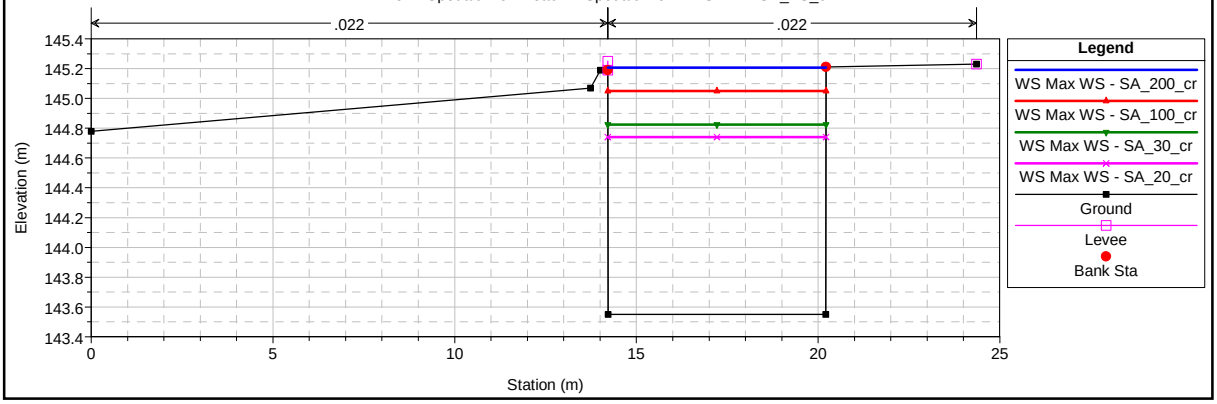
River = Spedaluzzo Reach = Spedaluzzo RS = 45 SP_PS_045



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

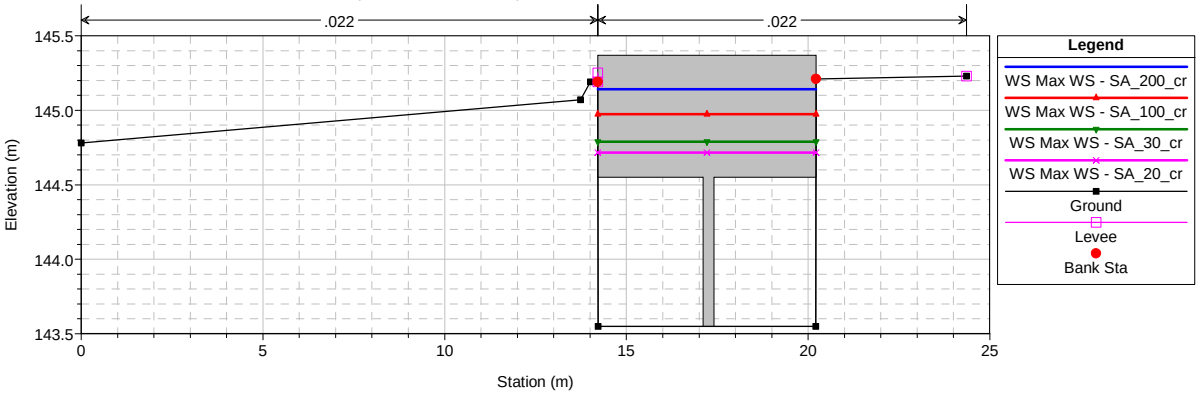
River = Spedaluzzo Reach = Spedaluzzo RS = 44 SP_PS_044



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

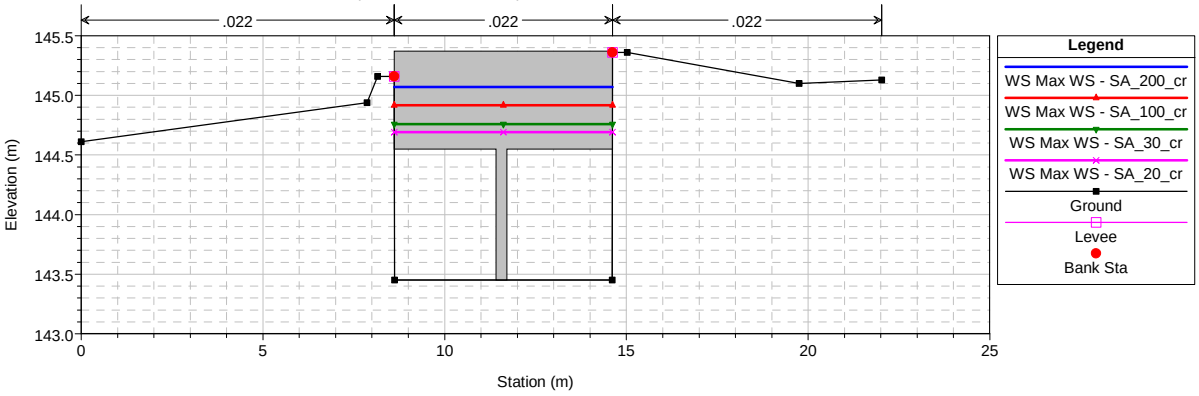
River = Spedaluzzo Reach = Spedaluzzo RS = 43.5 BR Ponte raccordo S.S.408



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

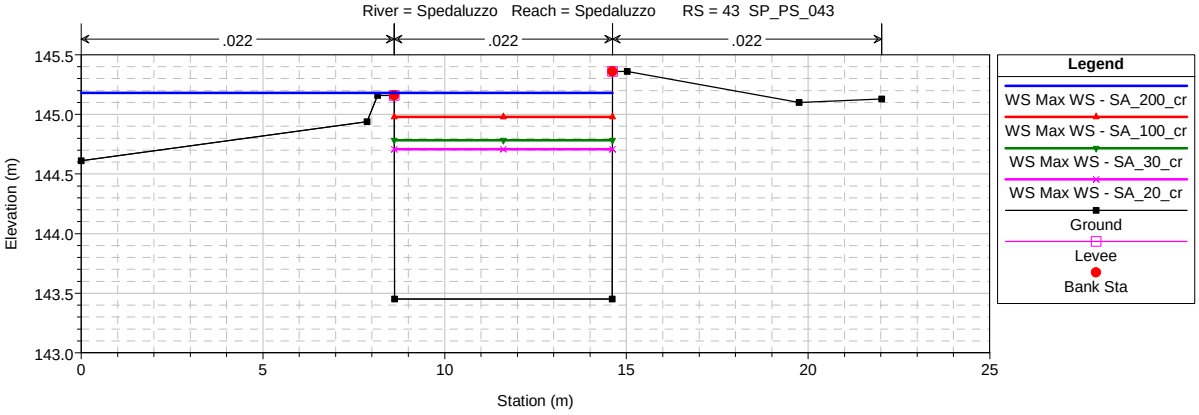
River = Spedaluzzo Reach = Spedaluzzo RS = 43.5 BR Ponte raccordo S.S.408



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

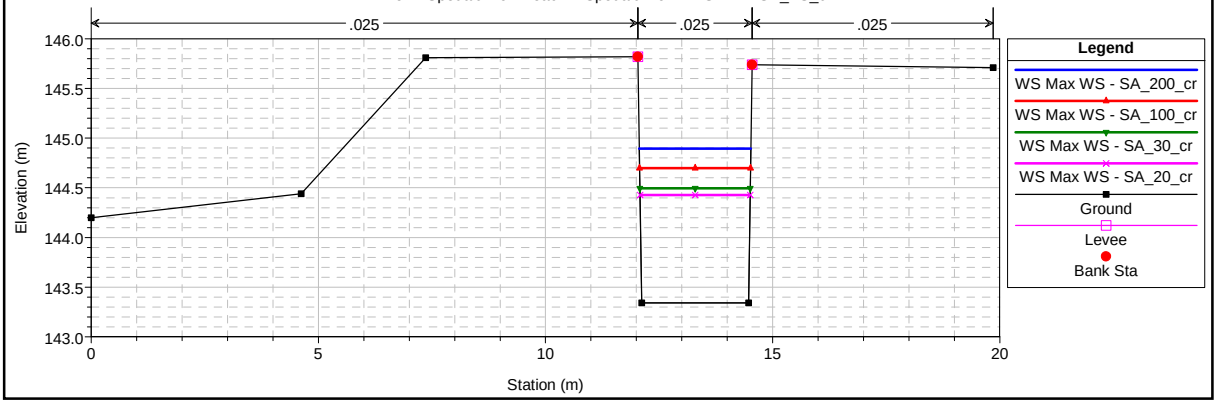
River = Spedaluzzo Reach = Spedaluzzo RS = 43 SP_PS_043

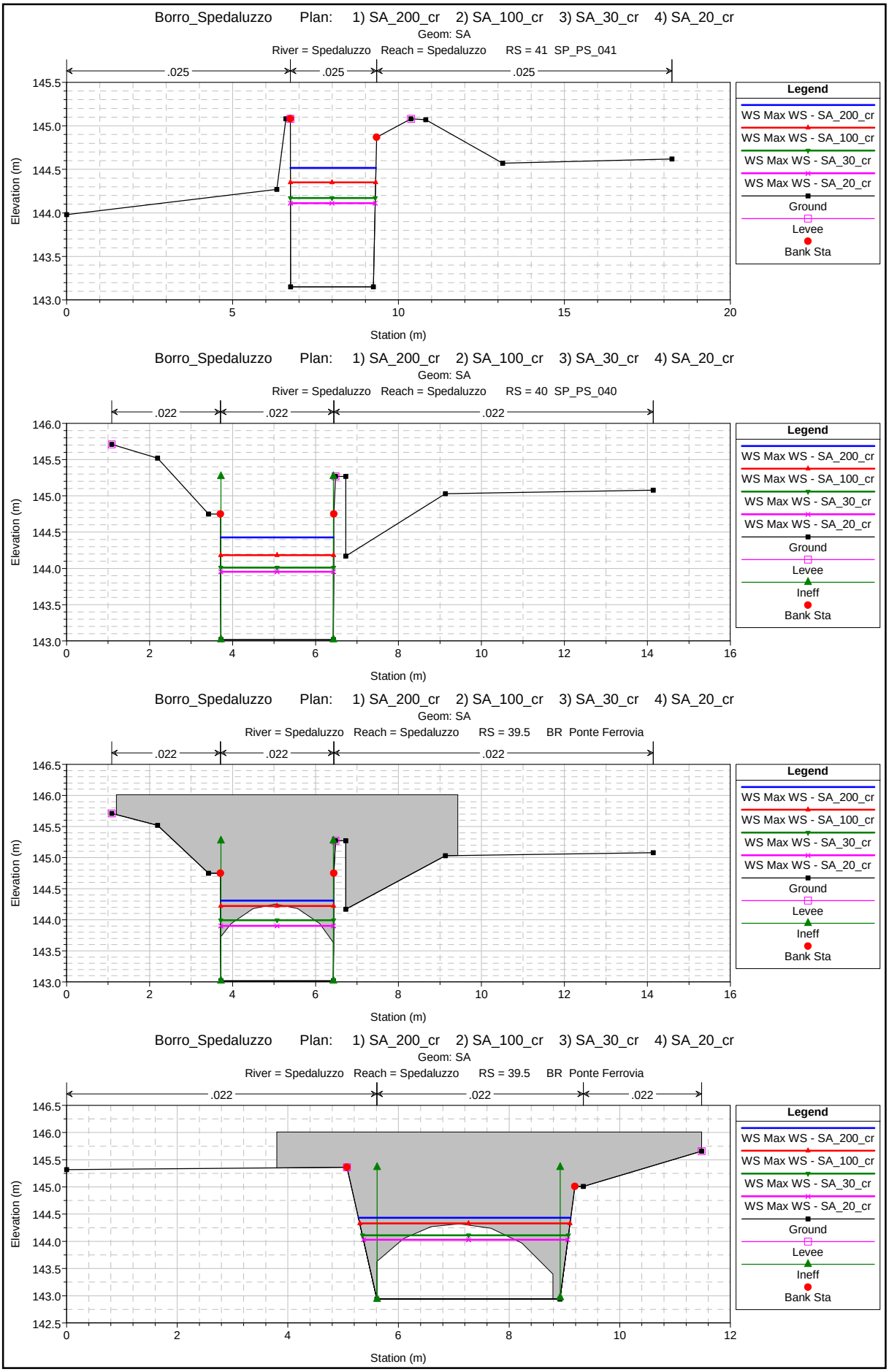


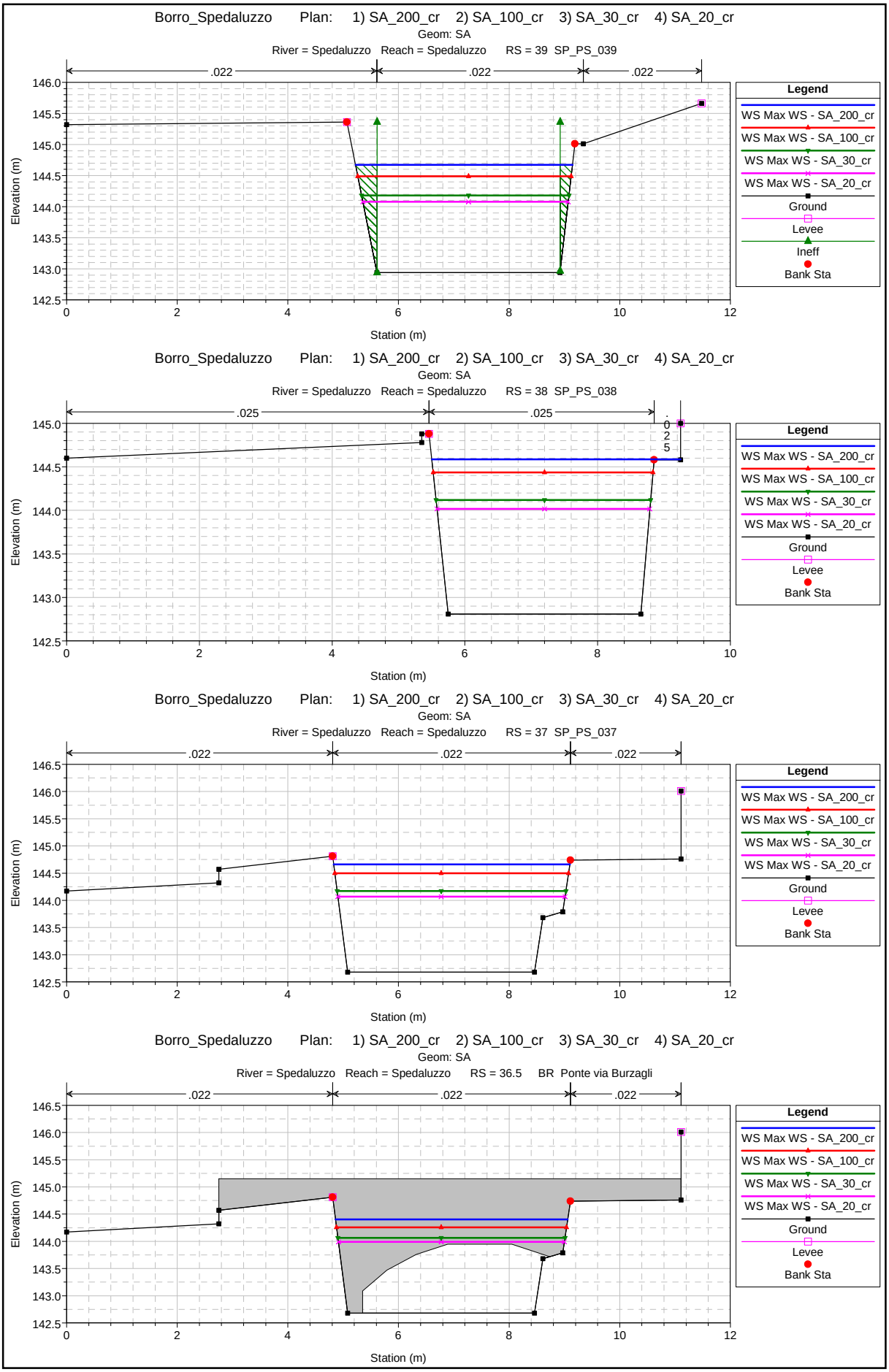
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

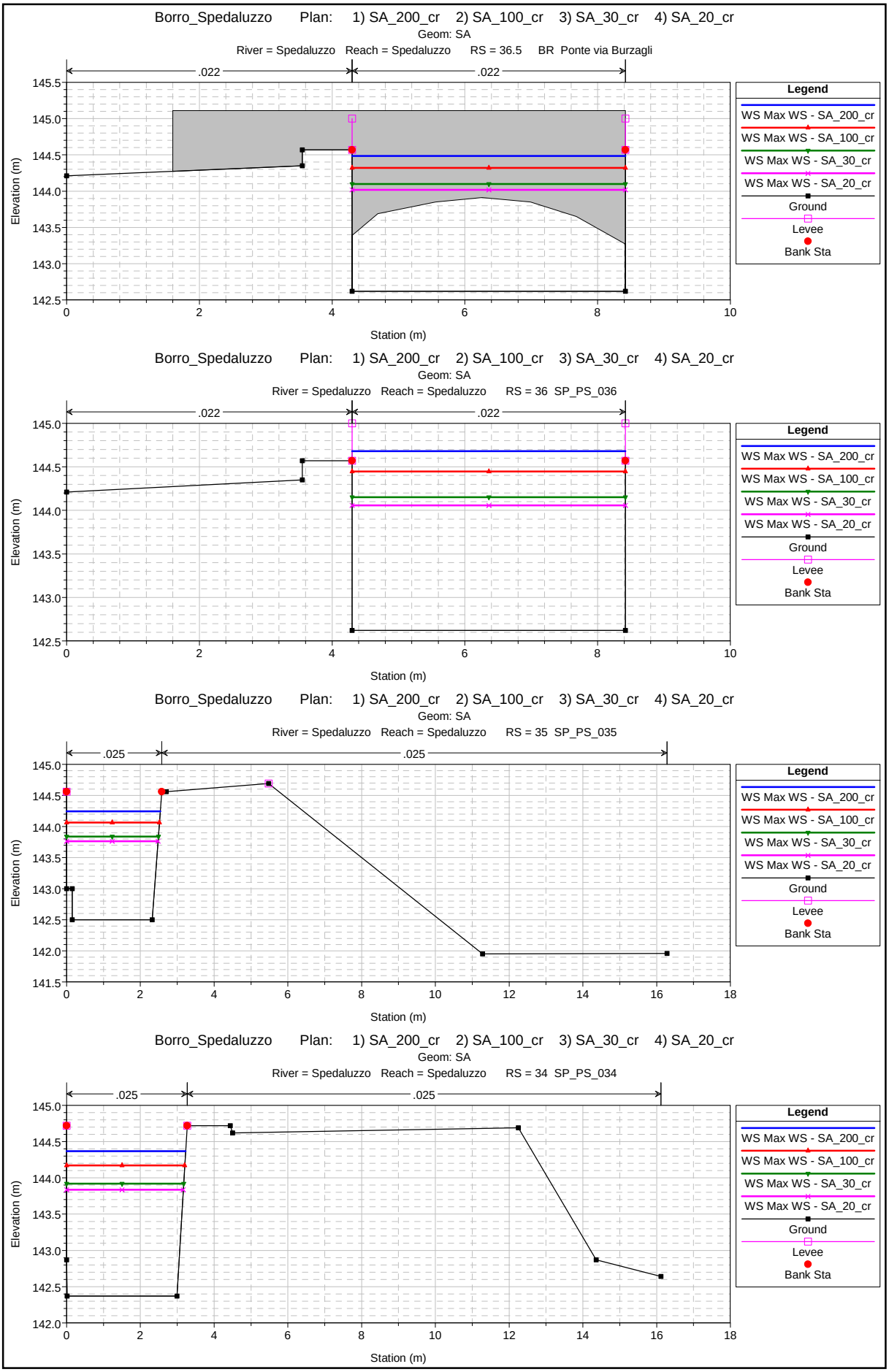
Geom: SA

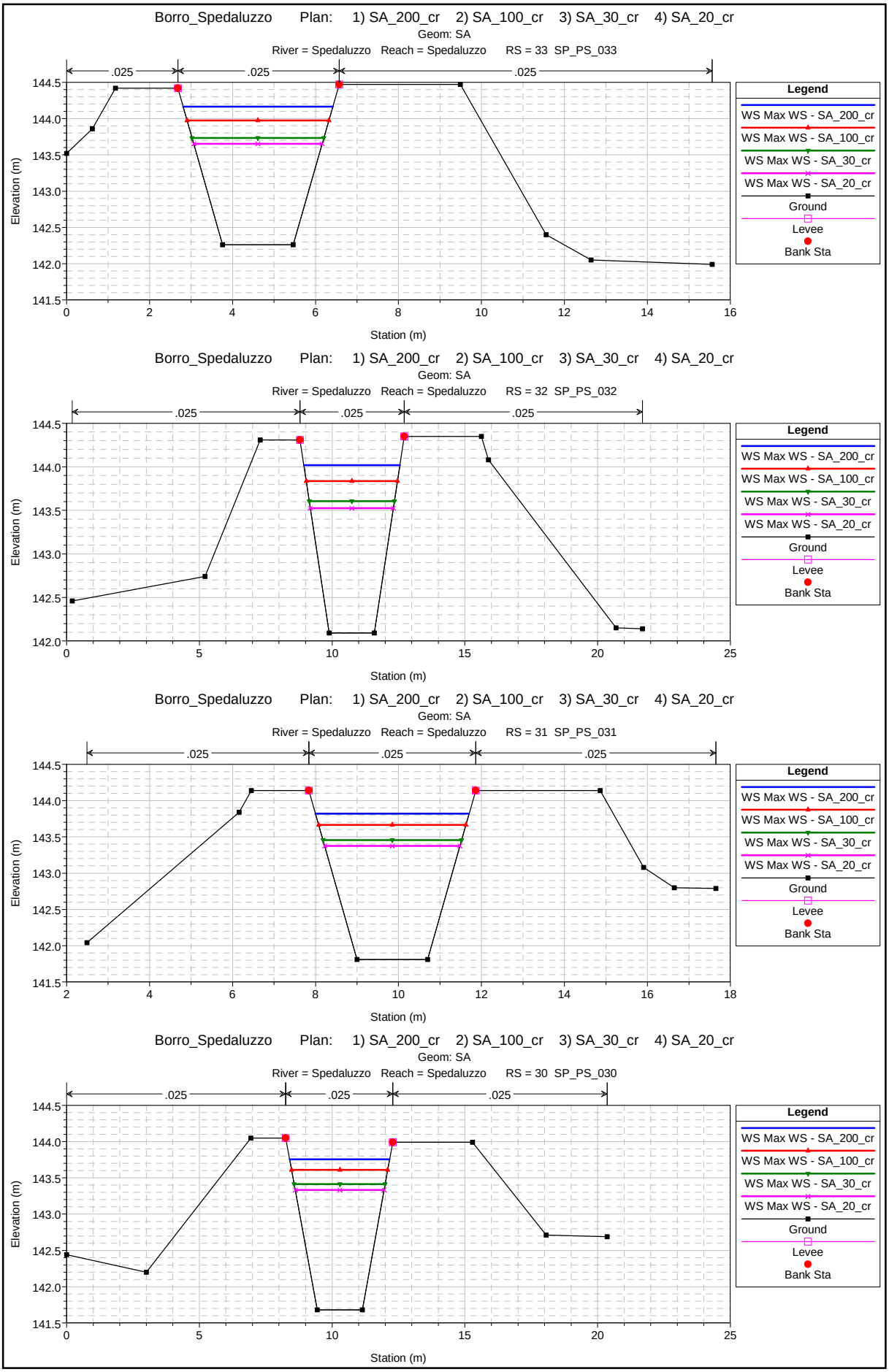
River = Spedaluzzo Reach = Spedaluzzo RS = 42 SP_PS_042

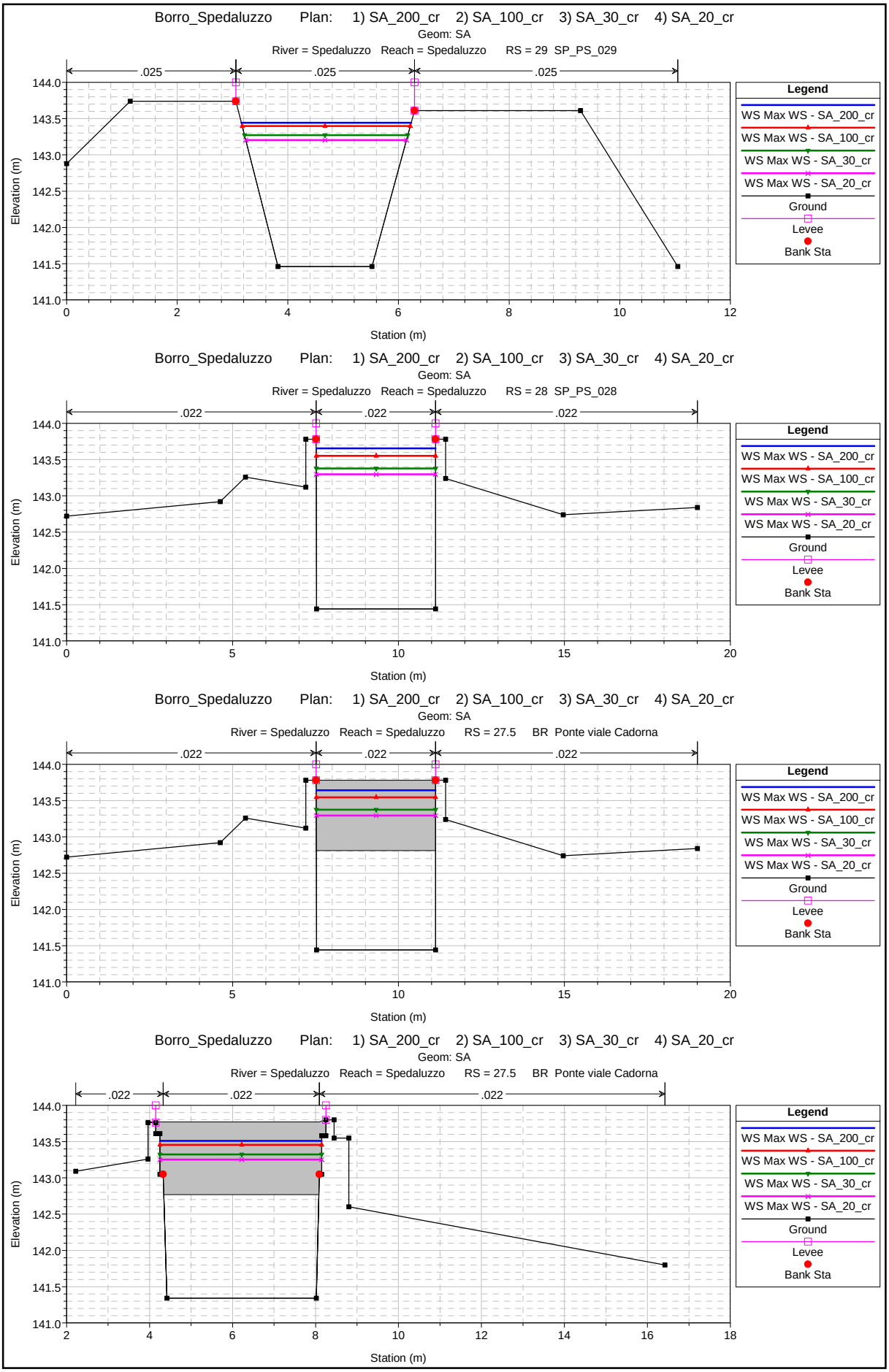


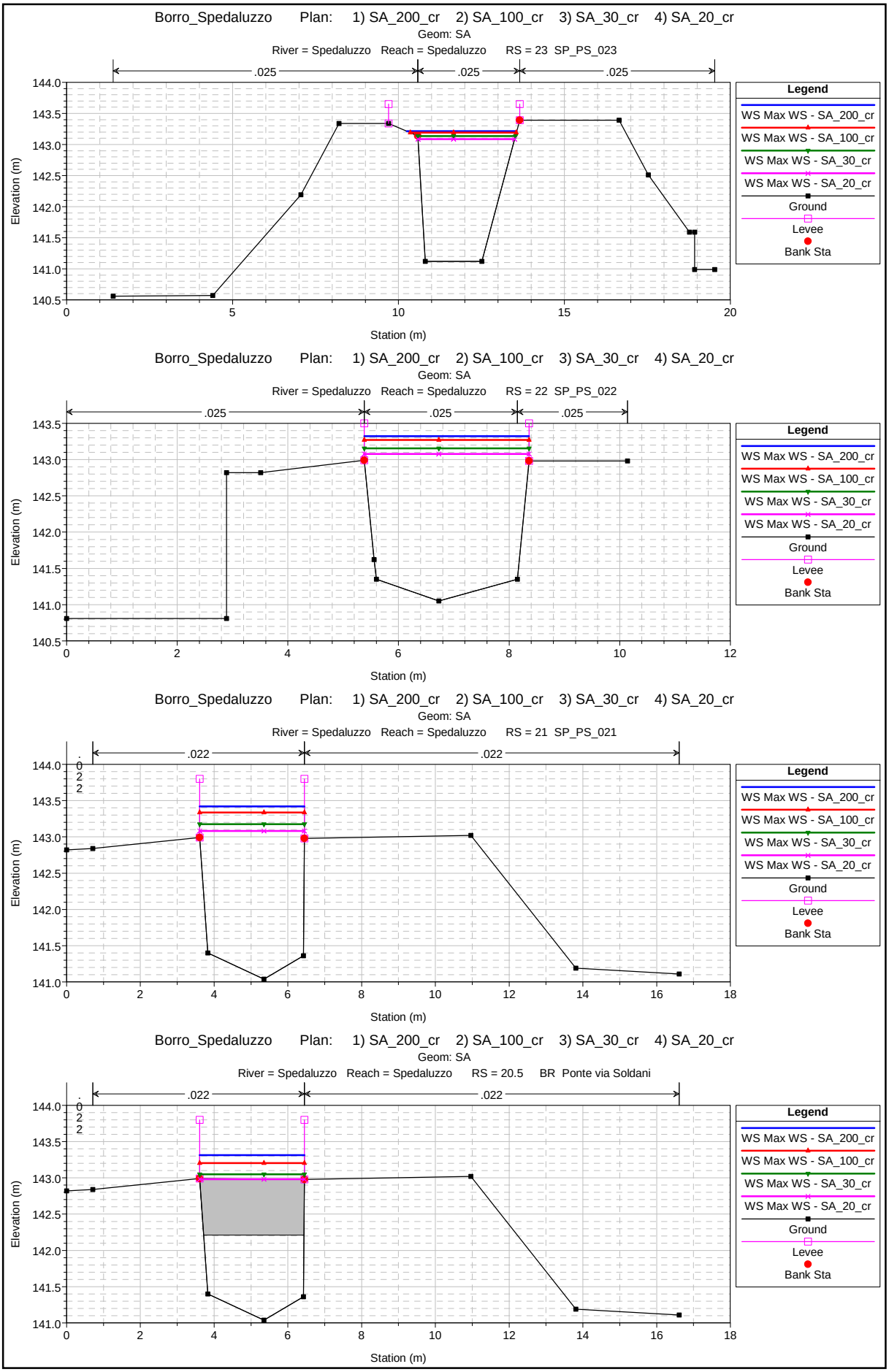

Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 41 SP_PS_041
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 40 SP_PS_040
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 39.5 BR Ponte Ferrovia
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 39.5 BR Ponte Ferrovia
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta


Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 39 SP_PS_039
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 38 SP_PS_038
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 37 SP_PS_037
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 36.5 BR Ponte via Burzagli
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 36.5 BR Ponte via Burzagli
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 36 SP_PS_036
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 35 SP_PS_035
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 34 SP_PS_034
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 33 SP_PS_033
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 32 SP_PS_032
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 31 SP_PS_031
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 30 SP_PS_030
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

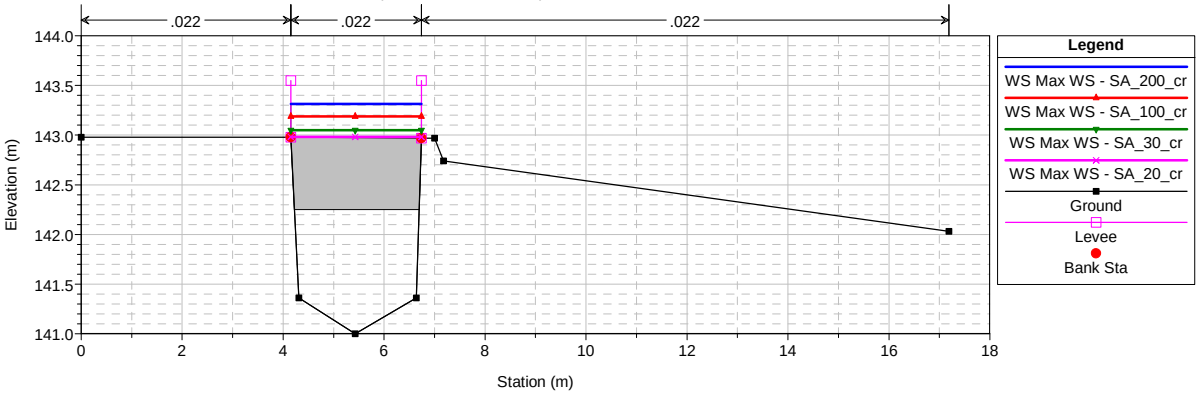

Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 29 SP_PS_029
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 28 SP_PS_028
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 27.5 BR Ponte viale Cadorna
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 27.5 BR Ponte viale Cadorna
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 23 SP_PS_023
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 22 SP_PS_022
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 21 SP_PS_021
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 20.5 BR Ponte via Soldani
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

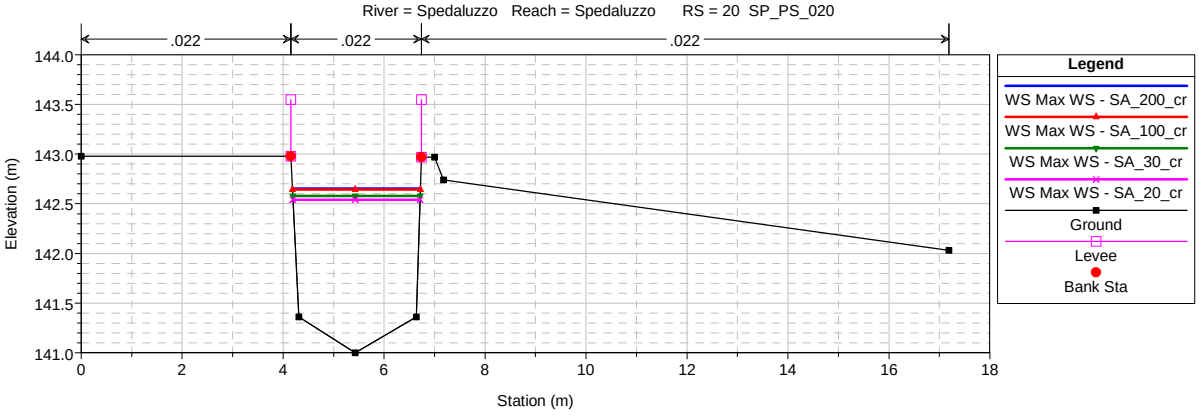
River = Spedaluzzo Reach = Spedaluzzo RS = 20.5 BR Ponte via Soldani



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

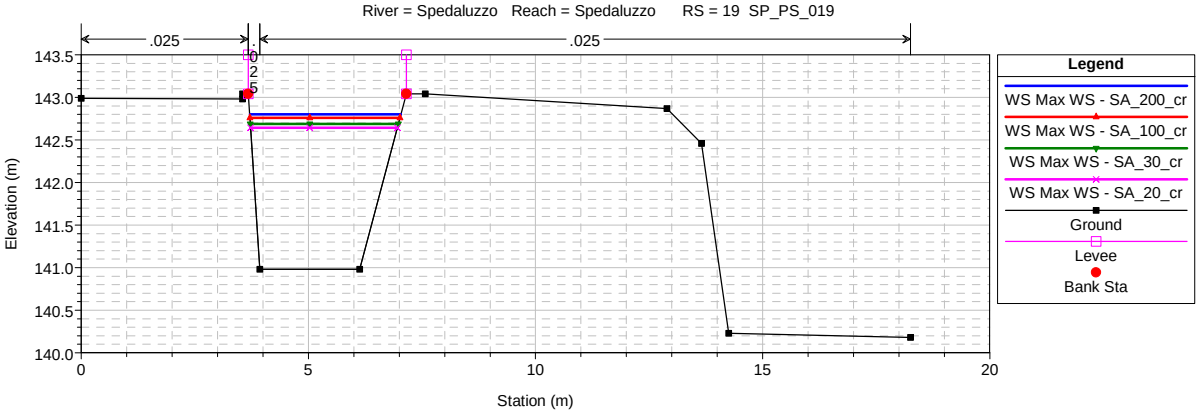
River = Spedaluzzo Reach = Spedaluzzo RS = 20 SP_PS_020



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

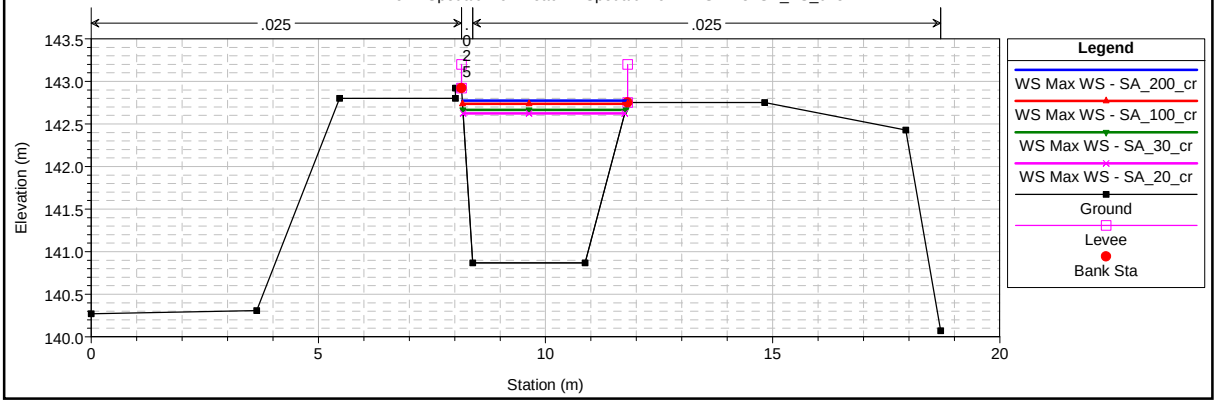
River = Spedaluzzo Reach = Spedaluzzo RS = 19 SP_PS_019



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

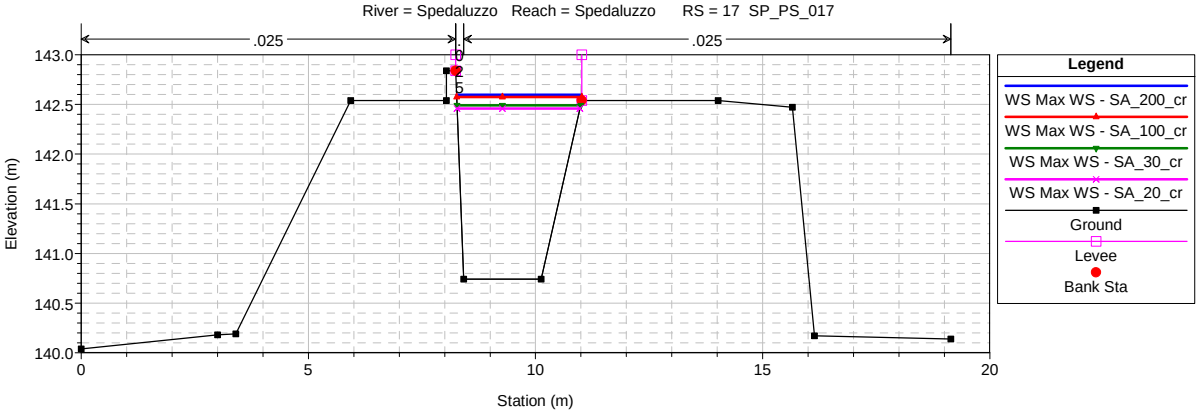
River = Spedaluzzo Reach = Spedaluzzo RS = 18 SP_PS_018



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

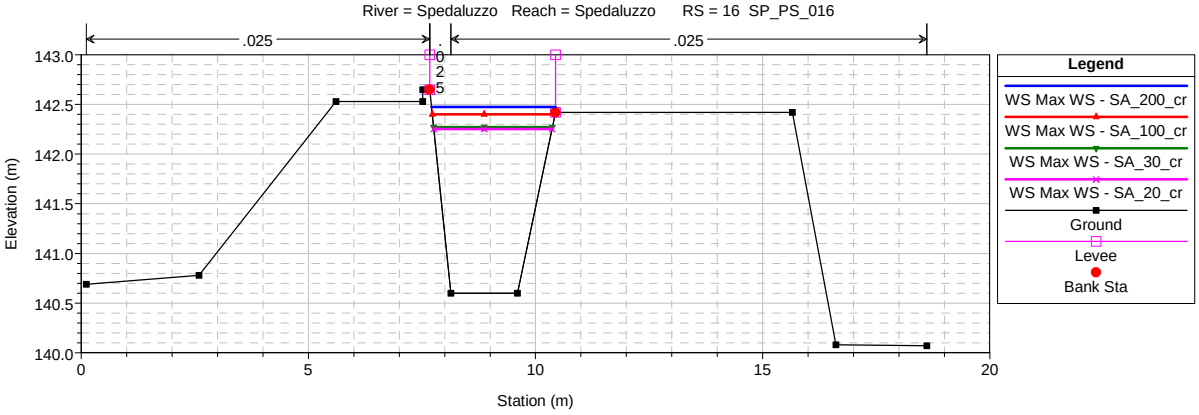
River = Spedaluzzo Reach = Spedaluzzo RS = 17 SP_PS_017



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

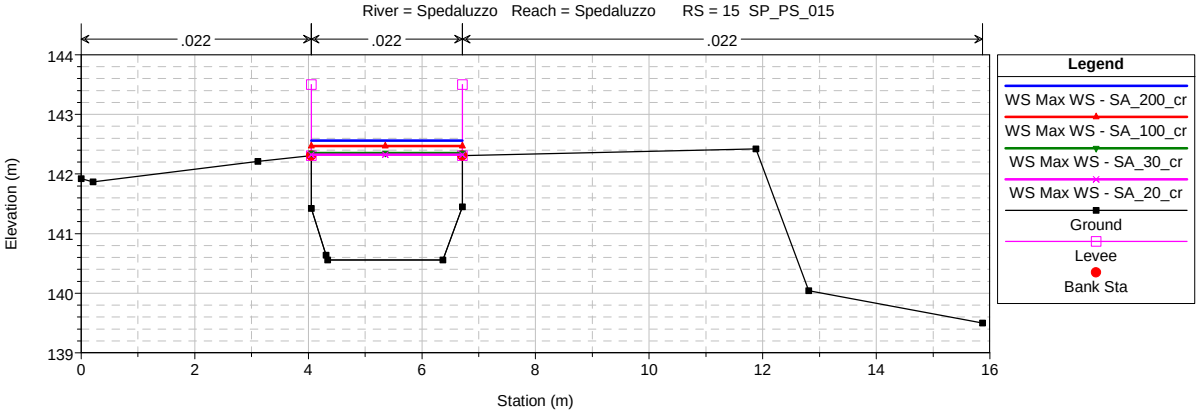
River = Spedaluzzo Reach = Spedaluzzo RS = 16 SP_PS_016



Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

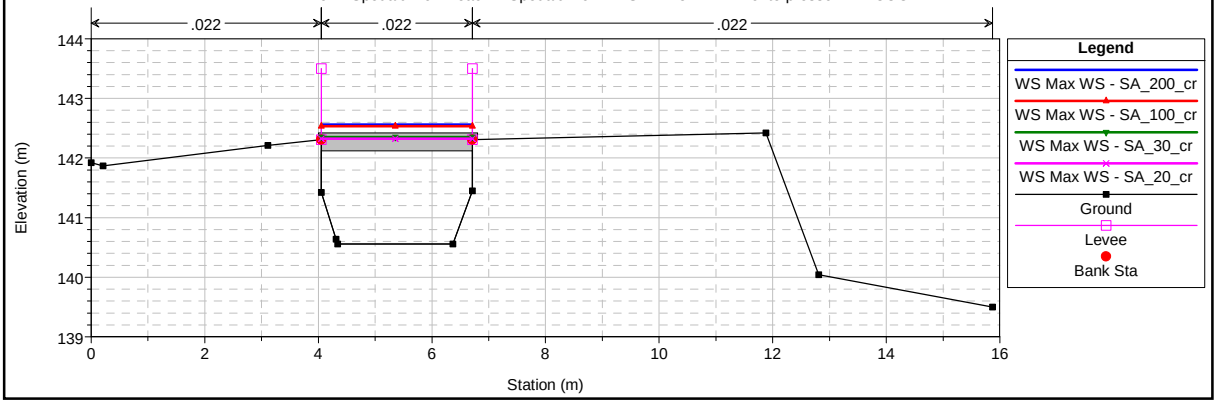
River = Spedaluzzo Reach = Spedaluzzo RS = 15 SP_PS_015

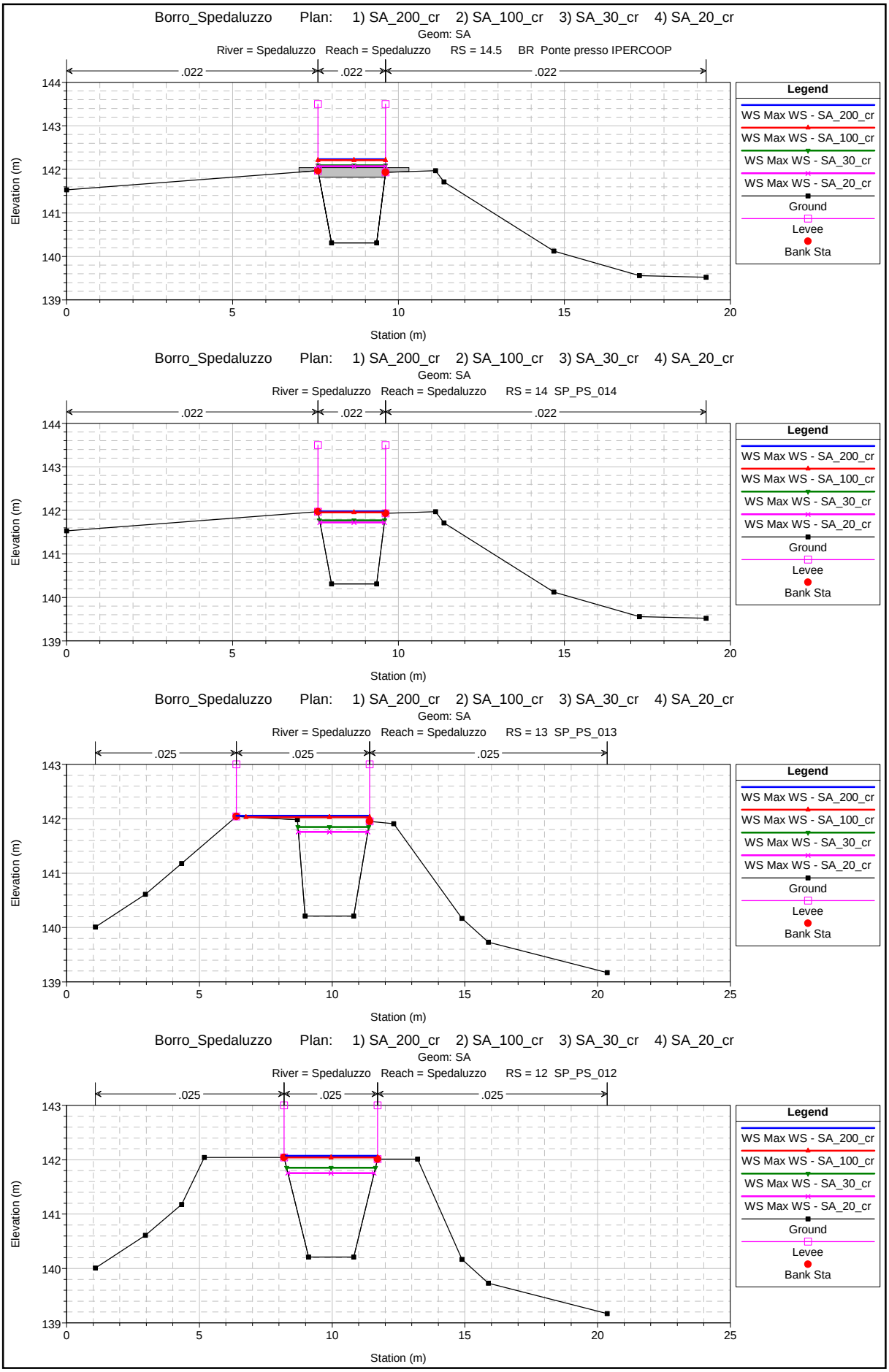


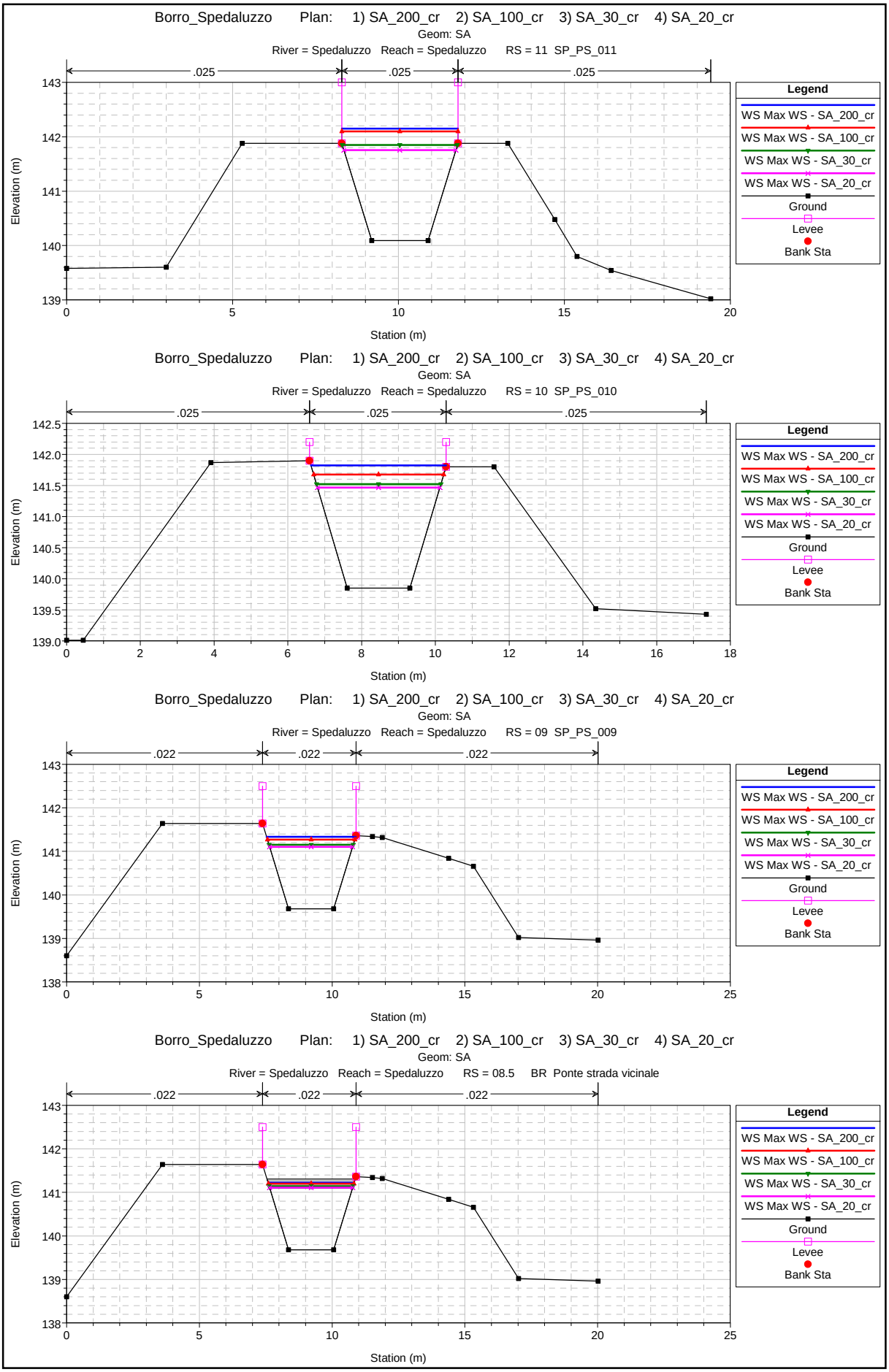
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

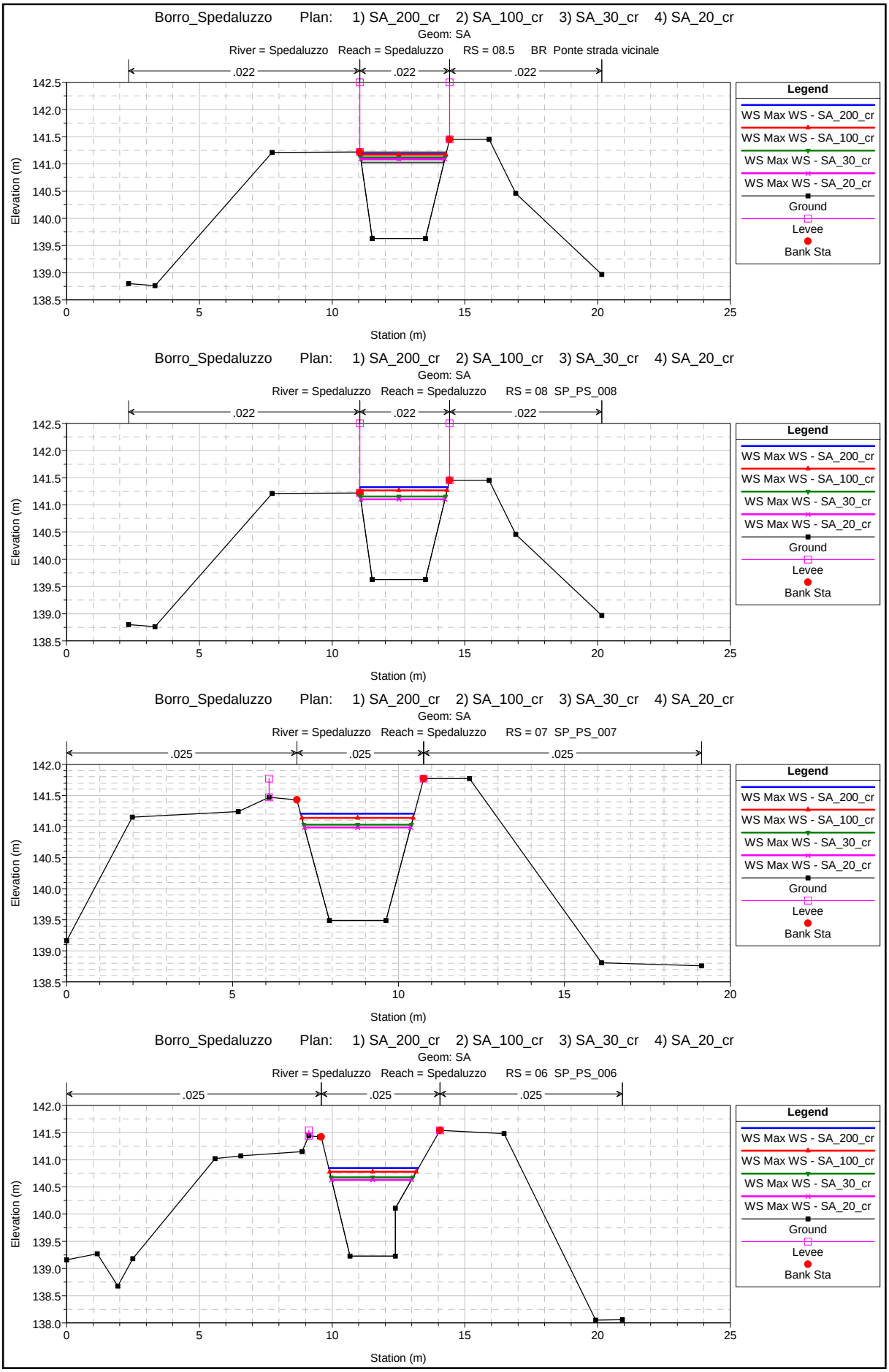
Geom: SA

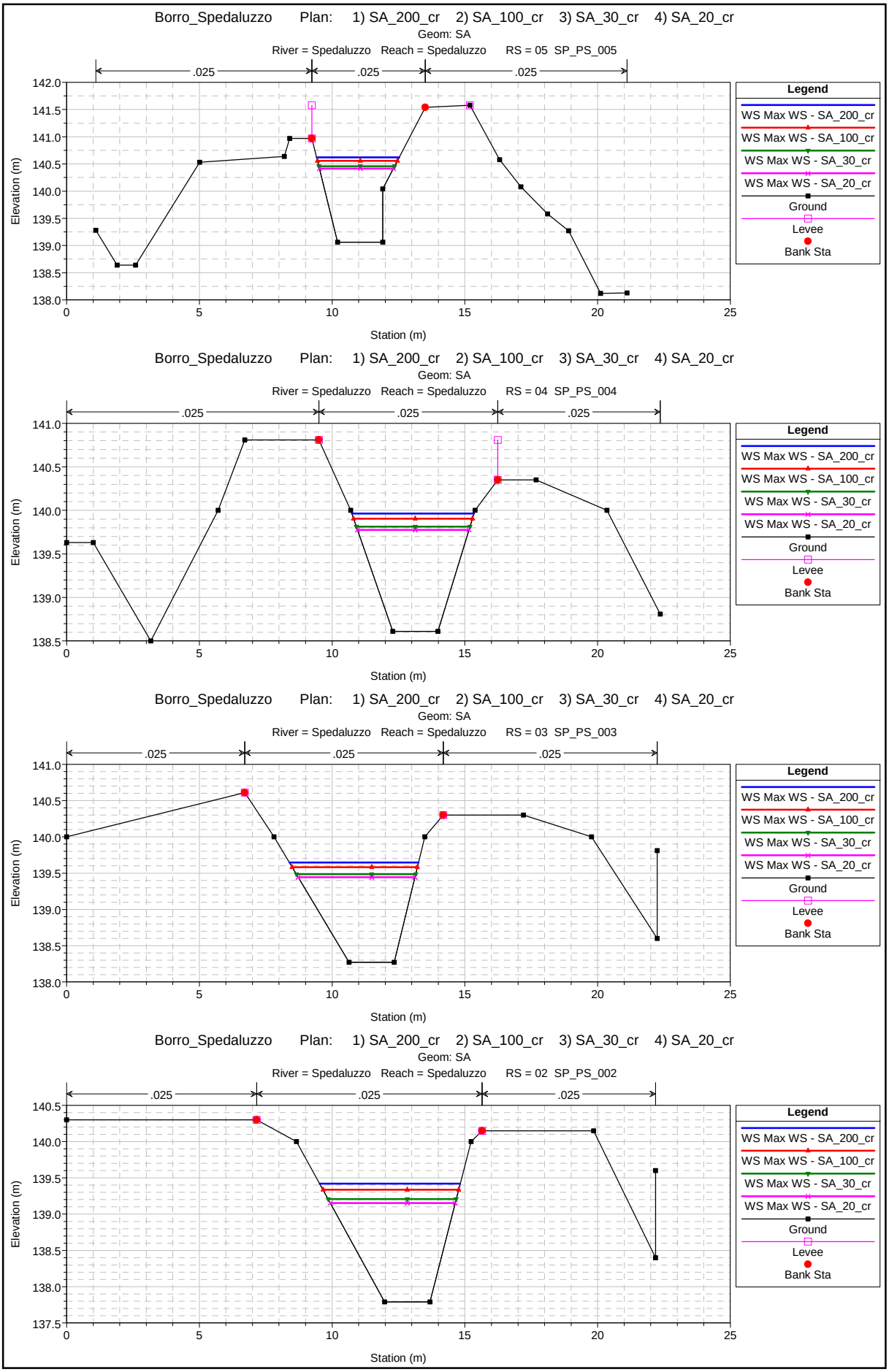
River = Spedaluzzo Reach = Spedaluzzo RS = 14.5 BR Ponte presso IPERCOOP




Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 14.5 BR Ponte presso IPERCOOP
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 14 SP_PS_014
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 13 SP_PS_013
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 12 SP_PS_012
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 11 SP_PS_011
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 10 SP_PS_010
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 09 SP_PS_009
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 08.5 BR Ponte strada vicinale
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 08.5 BR Ponte strada vicinale
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 08 SP_PS_008
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 07 SP_PS_007
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 06 SP_PS_006
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 05 SP_PS_005
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 04 SP_PS_004
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 03 SP_PS_003
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 02 SP_PS_002
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

HEC-RAS River: Spedaluzzo Reach: Spedaluzzo Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	51	Max WS	SA_200_cr	12.87	144.48	146.01		146.55	0.003705	3.24	3.97	2.92	0.83
Spedaluzzo	51	Max WS	SA_100_cr	10.93	144.48	145.84		146.33	0.003972	3.10	3.53	2.89	0.85
Spedaluzzo	51	Max WS	SA_30_cr	8.29	144.48	145.61		146.02	0.004258	2.83	2.93	2.84	0.85
Spedaluzzo	51	Max WS	SA_20_cr	7.50	144.48	145.54		145.92	0.004341	2.74	2.74	2.82	0.85
Spedaluzzo	50	Max WS	SA_200_cr	12.95	144.38	145.89	145.83	146.52	0.012727	3.52	3.68	2.58	0.94
Spedaluzzo	50	Max WS	SA_100_cr	10.91	144.38	145.71	145.67	146.29	0.012713	3.38	3.23	2.54	0.96
Spedaluzzo	50	Max WS	SA_30_cr	8.28	144.38	145.49	145.46	145.98	0.012345	3.12	2.66	2.50	0.97
Spedaluzzo	50	Max WS	SA_20_cr	7.50	144.38	145.42	145.39	145.88	0.012147	3.02	2.48	2.49	0.96
Spedaluzzo	49	Max WS	SA_200_cr	12.85	144.28	145.77		146.34	0.010941	3.33	3.86	2.73	0.89
Spedaluzzo	49	Max WS	SA_100_cr	10.90	144.28	145.59		146.13	0.011390	3.24	3.36	2.69	0.93
Spedaluzzo	49	Max WS	SA_30_cr	8.28	144.28	145.36	145.32	145.82	0.011261	3.01	2.75	2.65	0.94
Spedaluzzo	49	Max WS	SA_20_cr	7.49	144.28	145.29	145.25	145.73	0.011092	2.91	2.57	2.64	0.94
Spedaluzzo	48	Max WS	SA_200_cr	12.83	144.20	145.63	145.59	146.27	0.012966	3.53	3.64	2.62	0.96
Spedaluzzo	48	Max WS	SA_100_cr	10.88	144.20	145.46	145.45	146.05	0.013199	3.41	3.19	2.60	0.98
Spedaluzzo	48	Max WS	SA_30_cr	8.27	144.20	145.24	145.24	145.75	0.013159	3.17	2.61	2.58	1.01
Spedaluzzo	48	Max WS	SA_20_cr	7.49	144.20	145.17	145.17	145.65	0.012980	3.07	2.44	2.57	1.01
Spedaluzzo	47	Max WS	SA_200_cr	12.12	143.76	145.36		145.81	0.008638	2.98	4.08	3.44	0.76
Spedaluzzo	47	Max WS	SA_100_cr	10.76	143.76	145.15		145.62	0.009825	3.04	3.54	2.59	0.83
Spedaluzzo	47	Max WS	SA_30_cr	8.24	143.76	144.94		145.33	0.009039	2.75	2.99	2.57	0.81
Spedaluzzo	47	Max WS	SA_20_cr	7.45	143.76	144.88		145.23	0.008495	2.62	2.84	2.57	0.80
Spedaluzzo	46	Max WS	SA_200_cr	13.06	143.71	145.27		145.83	0.010650	3.30	3.96	3.13	0.86
Spedaluzzo	46	Max WS	SA_100_cr	10.70	143.71	145.07		145.57	0.010623	3.14	3.41	2.62	0.88
Spedaluzzo	46	Max WS	SA_30_cr	8.22	143.71	144.84		145.27	0.010403	2.91	2.82	2.58	0.89
Spedaluzzo	46	Max WS	SA_20_cr	7.44	143.71	144.78		145.18	0.009918	2.79	2.67	2.57	0.87
Spedaluzzo	45	Max WS	SA_200_cr	13.54	143.65	145.22		145.81	0.011488	3.41	3.97	2.60	0.88
Spedaluzzo	45	Max WS	SA_100_cr	10.59	143.65	144.99		145.49	0.010743	3.13	3.38	2.58	0.87
Spedaluzzo	45	Max WS	SA_30_cr	8.19	143.65	144.75		145.19	0.010941	2.95	2.77	2.56	0.91
Spedaluzzo	45	Max WS	SA_20_cr	7.33	143.65	144.69		145.09	0.010216	2.79	2.62	2.56	0.88
Spedaluzzo	44	Max WS	SA_200_cr	12.77	143.55	145.21	144.32	145.29	0.000730	1.28	9.94	6.01	0.32
Spedaluzzo	44	Max WS	SA_100_cr	11.26	143.55	145.05	144.26	145.13	0.000757	1.25	9.00	6.01	0.33
Spedaluzzo	44	Max WS	SA_30_cr	8.37	143.55	144.82	144.13	144.89	0.000673	1.10	7.64	6.01	0.31
Spedaluzzo	44	Max WS	SA_20_cr	7.62	143.55	144.74	144.10	144.80	0.000683	1.07	7.14	6.00	0.31

HEC-RAS River: Spedaluzzo Reach: Spedaluzzo Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	43.5			Bridge									
Spedaluzzo	43	Max WS	SA_200_cr	12.49	143.45	145.18		145.23	0.000469	1.05	13.63	14.62	0.25
Spedaluzzo	43	Max WS	SA_100_cr	11.11	143.45	144.98		145.05	0.000697	1.21	9.17	6.01	0.31
Spedaluzzo	43	Max WS	SA_30_cr	8.36	143.45	144.78		144.84	0.000589	1.05	7.99	6.00	0.29
Spedaluzzo	43	Max WS	SA_20_cr	7.61	143.45	144.71		144.76	0.000579	1.01	7.54	6.00	0.29
Spedaluzzo	42	Max WS	SA_200_cr	14.27	143.34	144.89	144.88	145.64	0.015135	3.82	3.73	2.46	0.99
Spedaluzzo	42	Max WS	SA_100_cr	11.04	143.34	144.70		145.28	0.012929	3.39	3.26	2.44	0.94
Spedaluzzo	42	Max WS	SA_30_cr	8.32	143.34	144.50		144.96	0.011414	3.01	2.76	2.43	0.90
Spedaluzzo	42	Max WS	SA_20_cr	7.56	143.34	144.43		144.86	0.011098	2.91	2.60	2.43	0.90
Spedaluzzo	41	Max WS	SA_200_cr	11.95	143.15	144.52	144.47	145.12	0.012913	3.45	3.46	2.58	0.95
Spedaluzzo	41	Max WS	SA_100_cr	10.90	143.15	144.35	144.39	145.01	0.015269	3.59	3.03	2.57	1.06
Spedaluzzo	41	Max WS	SA_30_cr	8.29	143.15	144.17	144.18	144.70	0.013786	3.22	2.57	2.55	1.02
Spedaluzzo	41	Max WS	SA_20_cr	7.54	143.15	144.11	144.12	144.60	0.013490	3.11	2.42	2.55	1.02
Spedaluzzo	40	Max WS	SA_200_cr	11.92	143.02	144.43	144.27	144.93	0.002998	3.13	3.81	2.73	0.84
Spedaluzzo	40	Max WS	SA_100_cr	10.73	143.02	144.18	144.19	144.77	0.004600	3.41	3.15	2.72	1.01
Spedaluzzo	40	Max WS	SA_30_cr	8.24	143.02	144.01	144.00	144.49	0.004587	3.06	2.69	2.72	0.98
Spedaluzzo	40	Max WS	SA_20_cr	7.48	143.02	143.96	143.94	144.40	0.004608	2.95	2.53	2.72	0.97
Spedaluzzo	39.5			Bridge									
Spedaluzzo	39	Max WS	SA_200_cr	13.96	142.94	144.67		144.97	0.001390	2.43	5.74	3.92	0.59
Spedaluzzo	39	Max WS	SA_100_cr	11.05	142.94	144.49		144.73	0.001261	2.15	5.13	3.86	0.55
Spedaluzzo	39	Max WS	SA_30_cr	8.31	142.94	144.18		144.39	0.001505	2.02	4.11	3.75	0.58
Spedaluzzo	39	Max WS	SA_20_cr	7.53	142.94	144.08		144.28	0.001633	1.99	3.78	3.71	0.60
Spedaluzzo	38	Max WS	SA_200_cr	12.80	142.81	144.59		144.86	0.004078	2.31	5.55	3.75	0.57
Spedaluzzo	38	Max WS	SA_100_cr	10.98	142.81	144.44		144.68	0.003873	2.18	5.05	3.31	0.56
Spedaluzzo	38	Max WS	SA_30_cr	8.29	142.81	144.12		144.34	0.004083	2.06	4.02	3.23	0.59
Spedaluzzo	38	Max WS	SA_20_cr	7.52	142.81	144.02		144.23	0.004255	2.04	3.69	3.21	0.61
Spedaluzzo	37	Max WS	SA_200_cr	12.72	142.68	144.66	143.82	144.81	0.001392	1.68	7.56	4.27	0.40
Spedaluzzo	37	Max WS	SA_100_cr	10.94	142.68	144.50	143.69	144.63	0.001338	1.59	6.87	4.22	0.40
Spedaluzzo	37	Max WS	SA_30_cr	8.28	142.68	144.17	143.52	144.29	0.001412	1.50	5.51	4.14	0.42
Spedaluzzo	37	Max WS	SA_20_cr	7.51	142.68	144.07	143.47	144.18	0.001464	1.48	5.07	4.11	0.43

HEC-RAS River: Spedaluzzo Reach: Spedaluzzo Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	36.5			Bridge									
Spedaluzzo	36	Max WS	SA_200_cr	14.27	142.62	144.68		144.82	0.001316	1.68	8.49	4.12	0.37
Spedaluzzo	36	Max WS	SA_100_cr	10.94	142.62	144.45		144.56	0.001065	1.45	7.53	4.12	0.34
Spedaluzzo	36	Max WS	SA_30_cr	8.28	142.62	144.15		144.24	0.000989	1.31	6.31	4.12	0.34
Spedaluzzo	36	Max WS	SA_20_cr	7.51	142.62	144.06		144.14	0.000972	1.27	5.92	4.12	0.34
Spedaluzzo	35.99			Lat Struct									
Spedaluzzo	35.98			Lat Struct									
Spedaluzzo	35	Max WS	SA_200_cr	13.52	142.50	144.24		144.78	0.010326	3.25	4.16	2.54	0.81
Spedaluzzo	35	Max WS	SA_100_cr	10.91	142.50	144.06		144.50	0.009103	2.95	3.70	2.52	0.78
Spedaluzzo	35	Max WS	SA_30_cr	8.26	142.50	143.84		144.19	0.008034	2.63	3.14	2.49	0.75
Spedaluzzo	35	Max WS	SA_20_cr	7.50	142.50	143.76		144.09	0.007803	2.54	2.95	2.48	0.74
Spedaluzzo	34	Max WS	SA_200_cr	13.43	142.37	144.37		144.61	0.003426	2.16	6.21	3.23	0.50
Spedaluzzo	34	Max WS	SA_100_cr	10.90	142.37	144.17		144.37	0.002991	1.96	5.57	3.20	0.47
Spedaluzzo	34	Max WS	SA_30_cr	8.27	142.37	143.92		144.07	0.002584	1.73	4.78	3.17	0.45
Spedaluzzo	34	Max WS	SA_20_cr	7.50	142.37	143.84		143.98	0.002475	1.66	4.52	3.16	0.44
Spedaluzzo	33	Max WS	SA_200_cr	13.34	142.26	144.16		144.52	0.005414	2.64	5.06	3.61	0.71
Spedaluzzo	33	Max WS	SA_100_cr	10.87	142.26	143.97		144.29	0.005234	2.48	4.39	3.42	0.70
Spedaluzzo	33	Max WS	SA_30_cr	8.26	142.26	143.73		144.00	0.005121	2.30	3.59	3.18	0.69
Spedaluzzo	33	Max WS	SA_20_cr	7.50	142.26	143.65		143.91	0.005148	2.25	3.34	3.09	0.69
Spedaluzzo	32	Max WS	SA_200_cr	13.32	142.09	144.02		144.36	0.005195	2.59	5.13	3.62	0.70
Spedaluzzo	32	Max WS	SA_100_cr	10.87	142.09	143.84		144.14	0.004917	2.42	4.49	3.44	0.68
Spedaluzzo	32	Max WS	SA_30_cr	8.26	142.09	143.61		143.86	0.004659	2.22	3.72	3.21	0.66
Spedaluzzo	32	Max WS	SA_20_cr	7.50	142.09	143.52		143.76	0.004668	2.17	3.46	3.13	0.66
Spedaluzzo	31	Max WS	SA_200_cr	13.26	141.81	143.82		144.12	0.004429	2.44	5.43	3.70	0.64
Spedaluzzo	31	Max WS	SA_100_cr	10.87	141.81	143.66		143.92	0.003983	2.23	4.86	3.55	0.61
Spedaluzzo	31	Max WS	SA_30_cr	8.25	141.81	143.46		143.66	0.003491	1.99	4.15	3.34	0.57
Spedaluzzo	31	Max WS	SA_20_cr	7.46	141.81	143.38		143.56	0.003407	1.92	3.88	3.26	0.56
Spedaluzzo	30	Max WS	SA_200_cr	13.23	141.68	143.76		144.03	0.003940	2.33	5.67	3.77	0.61
Spedaluzzo	30	Max WS	SA_100_cr	10.87	141.68	143.61		143.84	0.003456	2.12	5.13	3.62	0.57

HEC-RAS River: Spedaluzzo Reach: Spedaluzzo Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	30	Max WS	SA_30_cr	8.25	141.68	143.41		143.59	0.002918	1.86	4.44	3.43	0.52
Spedaluzzo	30	Max WS	SA_20_cr	7.45	141.68	143.33		143.50	0.002813	1.79	4.17	3.35	0.51
Spedaluzzo	29.4			Lat Struct									
Spedaluzzo	29.3			Lat Struct									
Spedaluzzo	29	Max WS	SA_200_cr	13.21	141.46	143.44		143.84	0.006535	2.79	4.73	3.07	0.72
Spedaluzzo	29	Max WS	SA_100_cr	10.85	141.46	143.40		143.68	0.004779	2.37	4.59	3.04	0.61
Spedaluzzo	29	Max WS	SA_30_cr	8.25	141.46	143.27		143.47	0.003443	1.96	4.22	2.95	0.52
Spedaluzzo	29	Max WS	SA_20_cr	7.39	141.46	143.20		143.38	0.003134	1.84	4.02	2.91	0.50
Spedaluzzo	28	Max WS	SA_200_cr	13.21	141.44	143.66	142.55	143.80	0.001343	1.66	7.97	3.60	0.36
Spedaluzzo	28	Max WS	SA_100_cr	10.86	141.44	143.55	142.42	143.66	0.001031	1.43	7.59	3.60	0.31
Spedaluzzo	28	Max WS	SA_30_cr	8.25	141.44	143.38	142.25	143.45	0.000745	1.18	6.97	3.60	0.27
Spedaluzzo	28	Max WS	SA_20_cr	7.43	141.44	143.30	142.20	143.36	0.000675	1.11	6.68	3.60	0.26
Spedaluzzo	27.5			Bridge									
Spedaluzzo	27	Max WS	SA_200_cr	13.19	141.34	143.65		143.77	0.000885	1.54	8.64	4.10	0.33
Spedaluzzo	27	Max WS	SA_100_cr	10.86	141.34	143.54		143.63	0.000705	1.33	8.21	3.90	0.29
Spedaluzzo	27	Max WS	SA_30_cr	8.24	141.34	143.37		143.43	0.000540	1.10	7.52	3.90	0.25
Spedaluzzo	27	Max WS	SA_20_cr	7.37	141.34	143.28		143.34	0.000496	1.03	7.20	3.90	0.24
Spedaluzzo	26.9			Lat Struct									
Spedaluzzo	26.8			Lat Struct									
Spedaluzzo	26	Max WS	SA_200_cr	13.19	141.33	143.58		143.77	0.002357	1.92	6.86	4.23	0.48
Spedaluzzo	26	Max WS	SA_100_cr	10.86	141.33	143.49		143.63	0.001859	1.68	6.48	4.13	0.43
Spedaluzzo	26	Max WS	SA_30_cr	8.24	141.33	143.32		143.43	0.001426	1.42	5.81	3.96	0.37
Spedaluzzo	26	Max WS	SA_20_cr	7.37	141.33	143.24		143.34	0.001314	1.34	5.50	3.88	0.36
Spedaluzzo	25	Max WS	SA_200_cr	13.19	141.33	143.57		143.76	0.002386	1.93	6.83	4.22	0.48
Spedaluzzo	25	Max WS	SA_100_cr	10.86	141.33	143.48		143.63	0.001877	1.68	6.45	4.13	0.43
Spedaluzzo	25	Max WS	SA_30_cr	8.24	141.33	143.32		143.42	0.001436	1.42	5.79	3.96	0.38
Spedaluzzo	25	Max WS	SA_20_cr	7.37	141.33	143.24		143.33	0.001324	1.34	5.49	3.87	0.36
Spedaluzzo	24	Max WS	SA_200_cr	12.88	141.21	143.46		143.67	0.002780	2.03	6.34	3.91	0.51

HEC-RAS River: Spedaluzzo Reach: Spedaluzzo Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	24	Max WS	SA_100_cr	10.86	141.21	143.38		143.55	0.002243	1.80	6.05	3.87	0.46
Spedaluzzo	24	Max WS	SA_30_cr	8.24	141.21	143.25		143.36	0.001620	1.49	5.55	3.74	0.39
Spedaluzzo	24	Max WS	SA_20_cr	7.22	141.21	143.18		143.27	0.001414	1.37	5.28	3.67	0.36
Spedaluzzo	23	Max WS	SA_200_cr	12.67	141.12	143.22		143.55	0.005518	2.58	4.93	3.31	0.64
Spedaluzzo	23	Max WS	SA_100_cr	10.84	141.12	143.19		143.45	0.004218	2.24	4.85	3.19	0.56
Spedaluzzo	23	Max WS	SA_30_cr	8.24	141.12	143.14		143.29	0.002685	1.76	4.68	2.94	0.45
Spedaluzzo	23	Max WS	SA_20_cr	7.16	141.12	143.09		143.21	0.002208	1.58	4.53	2.91	0.40
Spedaluzzo	22	Max WS	SA_200_cr	10.94	141.05	143.32		143.50	0.002478	1.85	5.91	2.98	0.42
Spedaluzzo	22	Max WS	SA_100_cr	9.53	141.05	143.27		143.41	0.002002	1.65	5.76	2.98	0.38
Spedaluzzo	22	Max WS	SA_30_cr	7.72	141.05	143.15		143.26	0.001546	1.43	5.41	2.98	0.34
Spedaluzzo	22	Max WS	SA_20_cr	7.01	141.05	143.08		143.17	0.001419	1.35	5.19	2.98	0.33
Spedaluzzo	21	Max WS	SA_200_cr	9.37	141.04	143.42	142.31	143.54	0.001370	1.56	6.02	2.84	0.34
Spedaluzzo	21	Max WS	SA_100_cr	8.27	141.04	143.34	142.22	143.44	0.001175	1.43	5.79	2.84	0.32
Spedaluzzo	21	Max WS	SA_30_cr	7.19	141.04	143.18	142.13	143.27	0.001097	1.35	5.33	2.84	0.31
Spedaluzzo	21	Max WS	SA_20_cr	6.80	141.04	143.08	142.10	143.17	0.001115	1.34	5.07	2.84	0.32
Spedaluzzo	20.5			Bridge									
Spedaluzzo	20	Max WS	SA_200_cr	9.04	141.00	142.65		142.98	0.004907	2.53	3.57	2.54	0.68
Spedaluzzo	20	Max WS	SA_100_cr	8.27	141.00	142.64		142.92	0.004184	2.33	3.54	2.54	0.63
Spedaluzzo	20	Max WS	SA_30_cr	7.68	141.00	142.58		142.84	0.004094	2.27	3.38	2.53	0.63
Spedaluzzo	20	Max WS	SA_20_cr	7.31	141.00	142.54		142.79	0.003992	2.23	3.28	2.52	0.62
Spedaluzzo	19	Max WS	SA_200_cr	9.37	140.98	142.80		142.98	0.002783	1.86	5.03	3.33	0.48
Spedaluzzo	19	Max WS	SA_100_cr	8.27	140.98	142.76		142.90	0.002329	1.69	4.89	3.30	0.44
Spedaluzzo	19	Max WS	SA_30_cr	7.69	140.98	142.69		142.83	0.002295	1.65	4.66	3.26	0.44
Spedaluzzo	19	Max WS	SA_20_cr	7.31	140.98	142.64		142.78	0.002247	1.62	4.52	3.23	0.44
Spedaluzzo	18	Max WS	SA_200_cr	9.37	140.87	142.77		142.91	0.001870	1.61	5.83	3.64	0.41
Spedaluzzo	18	Max WS	SA_100_cr	8.27	140.87	142.74		142.85	0.001546	1.45	5.70	3.63	0.37
Spedaluzzo	18	Max WS	SA_30_cr	7.69	140.87	142.67		142.77	0.001516	1.41	5.44	3.59	0.37
Spedaluzzo	18	Max WS	SA_20_cr	7.31	140.87	142.62		142.72	0.001475	1.38	5.29	3.56	0.36
Spedaluzzo	17.9			Lat Struct									
Spedaluzzo	17	Max WS	SA_200_cr	8.96	140.74	142.60		142.83	0.004314	2.15	4.17	2.76	0.56

HEC-RAS River: Spedaluzzo Reach: Spedaluzzo Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	17	Max WS	SA_100_cr	8.13	140.74	142.57		142.77	0.003706	1.98	4.10	2.76	0.52
Spedaluzzo	17	Max WS	SA_30_cr	7.69	140.74	142.49		142.69	0.003837	1.98	3.88	2.73	0.53
Spedaluzzo	17	Max WS	SA_20_cr	7.31	140.74	142.46		142.65	0.003696	1.93	3.78	2.71	0.52
Spedaluzzo	16	Max WS	SA_200_cr	8.41	140.60	142.48		142.71	0.004329	2.13	3.95	2.73	0.56
Spedaluzzo	16	Max WS	SA_100_cr	8.03	140.60	142.40		142.63	0.004541	2.14	3.75	2.70	0.58
Spedaluzzo	16	Max WS	SA_30_cr	7.69	140.60	142.27		142.53	0.005336	2.26	3.41	2.61	0.63
Spedaluzzo	16	Max WS	SA_20_cr	7.31	140.60	142.25		142.49	0.005014	2.18	3.36	2.60	0.61
Spedaluzzo	15	Max WS	SA_200_cr	8.13	140.56	142.56	141.65	142.69	0.001633	1.61	5.05	2.66	0.37
Spedaluzzo	15	Max WS	SA_100_cr	8.01	140.56	142.47	141.64	142.61	0.001798	1.67	4.80	2.66	0.40
Spedaluzzo	15	Max WS	SA_30_cr	7.69	140.56	142.35	141.61	142.50	0.001966	1.71	4.49	2.66	0.42
Spedaluzzo	15	Max WS	SA_20_cr	7.31	140.56	142.33	141.58	142.46	0.001845	1.65	4.42	2.66	0.41
Spedaluzzo	14.5			Bridge									
Spedaluzzo	14	Max WS	SA_200_cr	4.30	140.31	141.98		142.09	0.002218	1.52	2.84	2.04	0.41
Spedaluzzo	14	Max WS	SA_100_cr	4.30	140.31	141.96		142.08	0.002295	1.54	2.80	2.04	0.42
Spedaluzzo	14	Max WS	SA_30_cr	7.54	140.31	141.77		142.26	0.010076	3.10	2.43	1.97	0.89
Spedaluzzo	14	Max WS	SA_20_cr	7.23	140.31	141.73		142.21	0.010278	3.09	2.34	1.95	0.90
Spedaluzzo	13.9			Lat Struct									
Spedaluzzo	13.8			Lat Struct									
Spedaluzzo	13	Max WS	SA_200_cr	6.62	140.21	142.05		142.17	0.003237	1.53	4.33	5.02	0.52
Spedaluzzo	13	Max WS	SA_100_cr	6.14	140.21	142.03		142.14	0.002834	1.45	4.22	4.66	0.49
Spedaluzzo	13	Max WS	SA_30_cr	7.22	140.21	141.85		142.04	0.003841	1.96	3.68	2.66	0.53
Spedaluzzo	13	Max WS	SA_20_cr	6.55	140.21	141.76		141.94	0.003767	1.90	3.44	2.62	0.53
Spedaluzzo	12	Max WS	SA_200_cr	6.25	140.21	142.07		142.16	0.001285	1.27	4.91	3.52	0.34
Spedaluzzo	12	Max WS	SA_100_cr	5.96	140.21	142.04		142.12	0.001238	1.24	4.80	3.52	0.34
Spedaluzzo	12	Max WS	SA_30_cr	7.22	140.21	141.85		142.01	0.002686	1.74	4.14	3.35	0.50
Spedaluzzo	12	Max WS	SA_20_cr	6.52	140.21	141.75		141.90	0.002712	1.71	3.82	3.25	0.50
Spedaluzzo	11	Max WS	SA_200_cr	5.23	140.09	142.15		142.20	0.000630	0.93	5.60	3.50	0.24
Spedaluzzo	11	Max WS	SA_100_cr	5.43	140.09	142.10		142.15	0.000742	1.00	5.42	3.50	0.26
Spedaluzzo	11	Max WS	SA_30_cr	7.21	140.09	141.85		141.98	0.002092	1.59	4.55	3.47	0.44
Spedaluzzo	11	Max WS	SA_20_cr	6.52	140.09	141.75		141.88	0.002086	1.55	4.22	3.37	0.44

HEC-RAS River: Spedaluzzo Reach: Spedaluzzo Profile: Max WS (Continued)

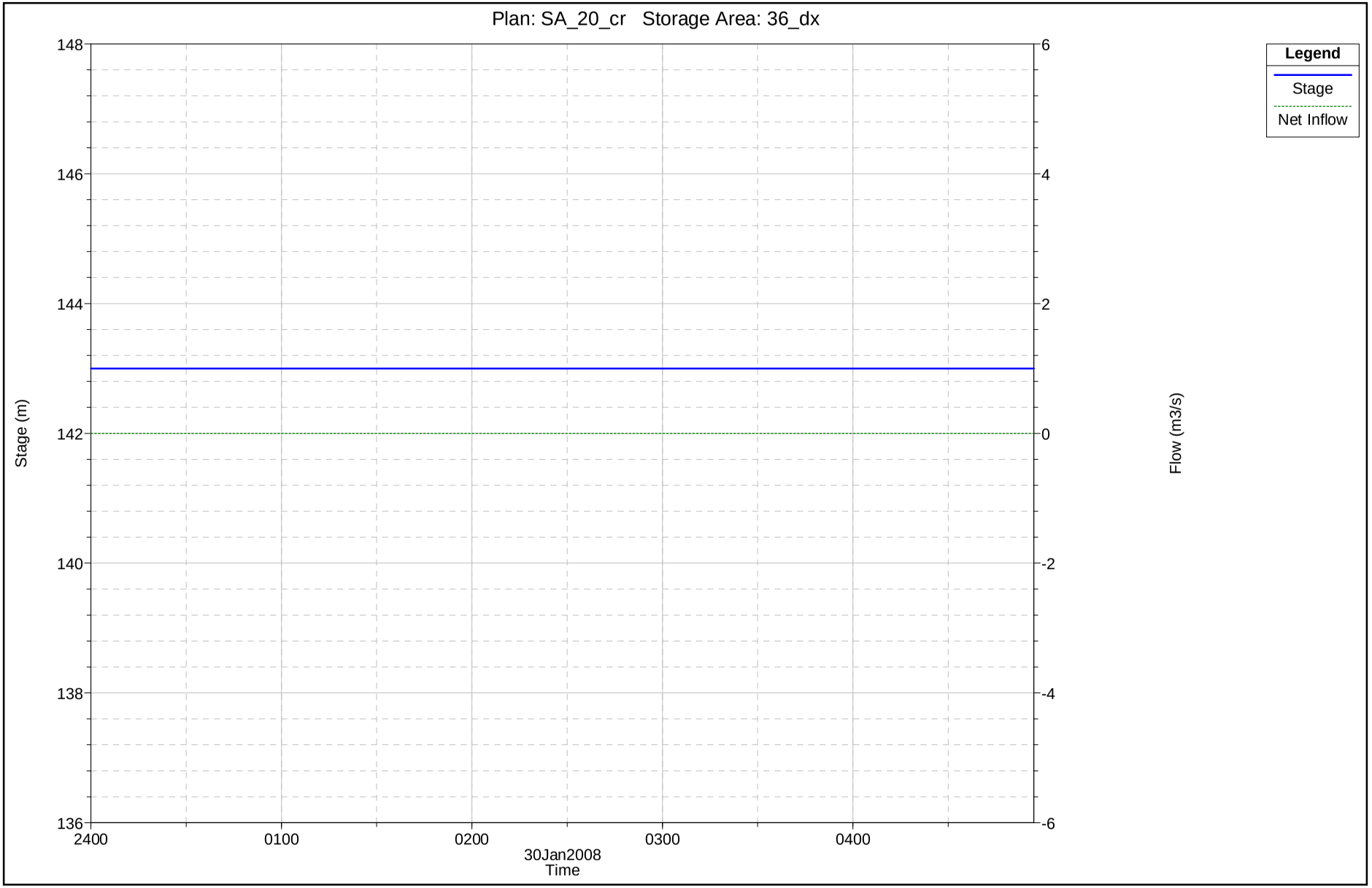
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	10	Max WS	SA_200_cr	9.32	139.85	141.82		141.98	0.002329	1.76	5.31	3.66	0.47
Spedaluzzo	10	Max WS	SA_100_cr	9.85	139.85	141.68		141.89	0.003439	2.06	4.77	3.53	0.57
Spedaluzzo	10	Max WS	SA_30_cr	8.74	139.85	141.52		141.74	0.003691	2.06	4.24	3.37	0.59
Spedaluzzo	10	Max WS	SA_20_cr	8.22	139.85	141.47		141.68	0.003684	2.03	4.05	3.32	0.59
Spedaluzzo	09	Max WS	SA_200_cr	12.09	139.68	141.33	141.16	141.76	0.005687	2.89	4.18	3.35	0.83
Spedaluzzo	09	Max WS	SA_100_cr	11.04	139.68	141.27	141.09	141.66	0.005461	2.78	3.96	3.29	0.81
Spedaluzzo	09	Max WS	SA_30_cr	9.59	139.68	141.15	140.97	141.52	0.005354	2.67	3.59	3.17	0.80
Spedaluzzo	09	Max WS	SA_20_cr	9.01	139.68	141.11	140.93	141.46	0.005314	2.62	3.44	3.13	0.80
Spedaluzzo	08.5			Bridge									
Spedaluzzo	08	Max WS	SA_200_cr	12.09	139.63	141.33		141.69	0.004606	2.66	4.54	3.32	0.73
Spedaluzzo	08	Max WS	SA_100_cr	11.03	139.63	141.27		141.59	0.004311	2.54	4.35	3.29	0.71
Spedaluzzo	08	Max WS	SA_30_cr	9.59	139.63	141.15		141.45	0.004111	2.41	3.98	3.21	0.69
Spedaluzzo	08	Max WS	SA_20_cr	9.01	139.63	141.10		141.39	0.004045	2.36	3.82	3.18	0.69
Spedaluzzo	7.9			Lat Struct									
Spedaluzzo	7.8			Lat Struct									
Spedaluzzo	07	Max WS	SA_200_cr	12.00	139.49	141.21		141.59	0.006351	2.73	4.39	3.42	0.77
Spedaluzzo	07	Max WS	SA_100_cr	11.02	139.49	141.14		141.49	0.006168	2.65	4.16	3.36	0.76
Spedaluzzo	07	Max WS	SA_30_cr	9.59	139.49	141.03		141.35	0.005893	2.51	3.81	3.25	0.74
Spedaluzzo	07	Max WS	SA_20_cr	9.01	139.49	140.98		141.29	0.005788	2.46	3.67	3.20	0.73
Spedaluzzo	06	Max WS	SA_200_cr	12.00	139.23	140.85	140.83	141.37	0.010927	3.22	3.73	3.37	0.98
Spedaluzzo	06	Max WS	SA_100_cr	11.02	139.23	140.78	140.75	141.28	0.010833	3.14	3.51	3.26	0.97
Spedaluzzo	06	Max WS	SA_30_cr	9.58	139.23	140.68	140.63	141.14	0.010648	3.02	3.17	3.09	0.95
Spedaluzzo	06	Max WS	SA_20_cr	9.01	139.23	140.63	140.58	141.08	0.010560	2.97	3.04	3.01	0.94
Spedaluzzo	05	Max WS	SA_200_cr	12.00	139.06	140.62	140.67	141.24	0.013355	3.48	3.45	3.11	1.06
Spedaluzzo	05	Max WS	SA_100_cr	11.02	139.06	140.56	140.59	141.14	0.013113	3.39	3.25	3.01	1.04
Spedaluzzo	05	Max WS	SA_30_cr	9.58	139.06	140.46	140.47	140.99	0.012653	3.24	2.96	2.85	1.01
Spedaluzzo	05	Max WS	SA_20_cr	9.01	139.06	140.41	140.42	140.93	0.012425	3.17	2.84	2.79	1.00
Spedaluzzo	04	Max WS	SA_200_cr	12.00	138.61	139.96		140.37	0.007256	2.82	4.26	4.60	0.93
Spedaluzzo	04	Max WS	SA_100_cr	11.01	138.61	139.90		140.29	0.007261	2.76	4.00	4.47	0.93

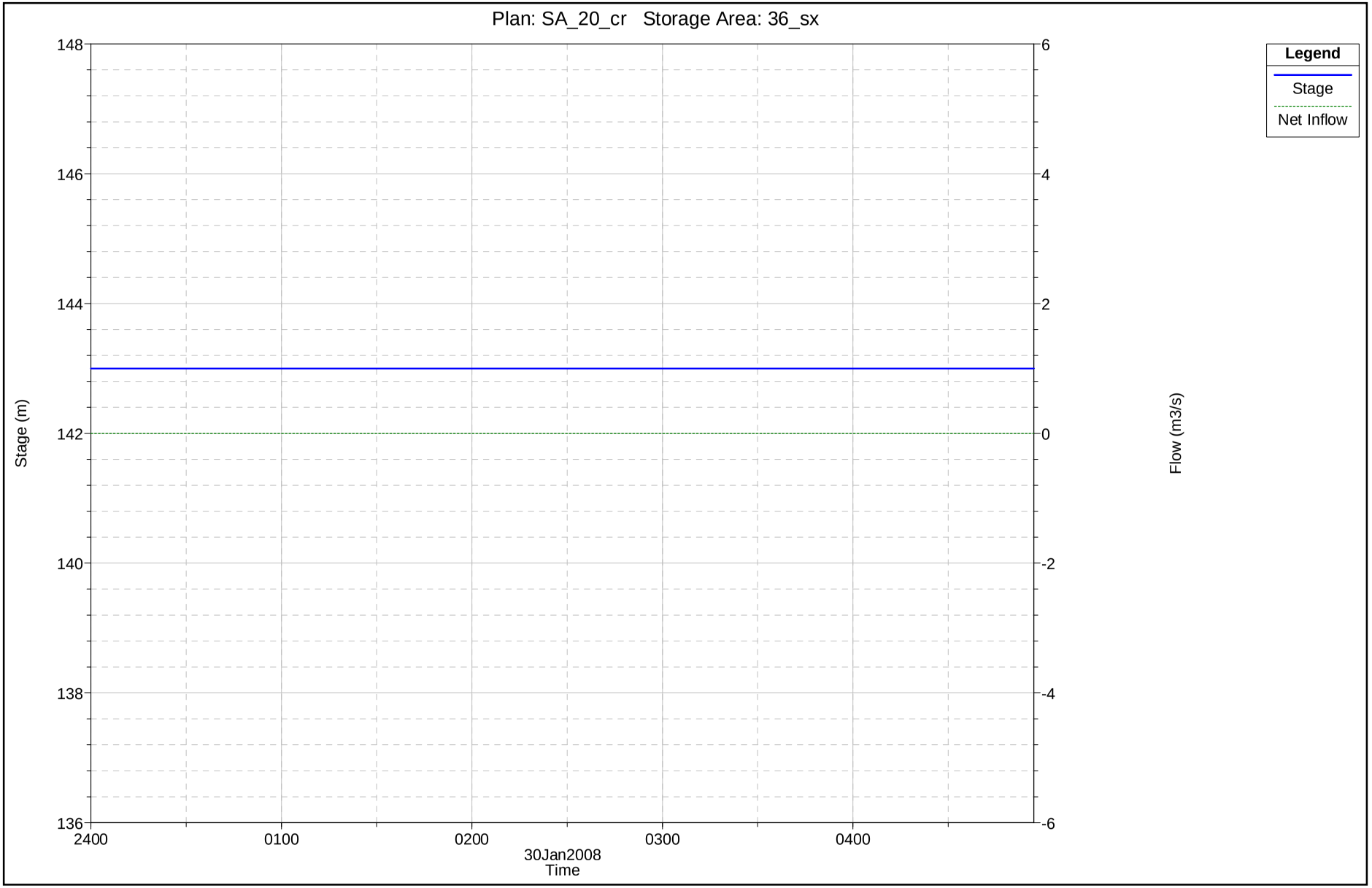
HEC-RAS River: Spedaluzzo Reach: Spedaluzzo Profile: Max WS (Continued)

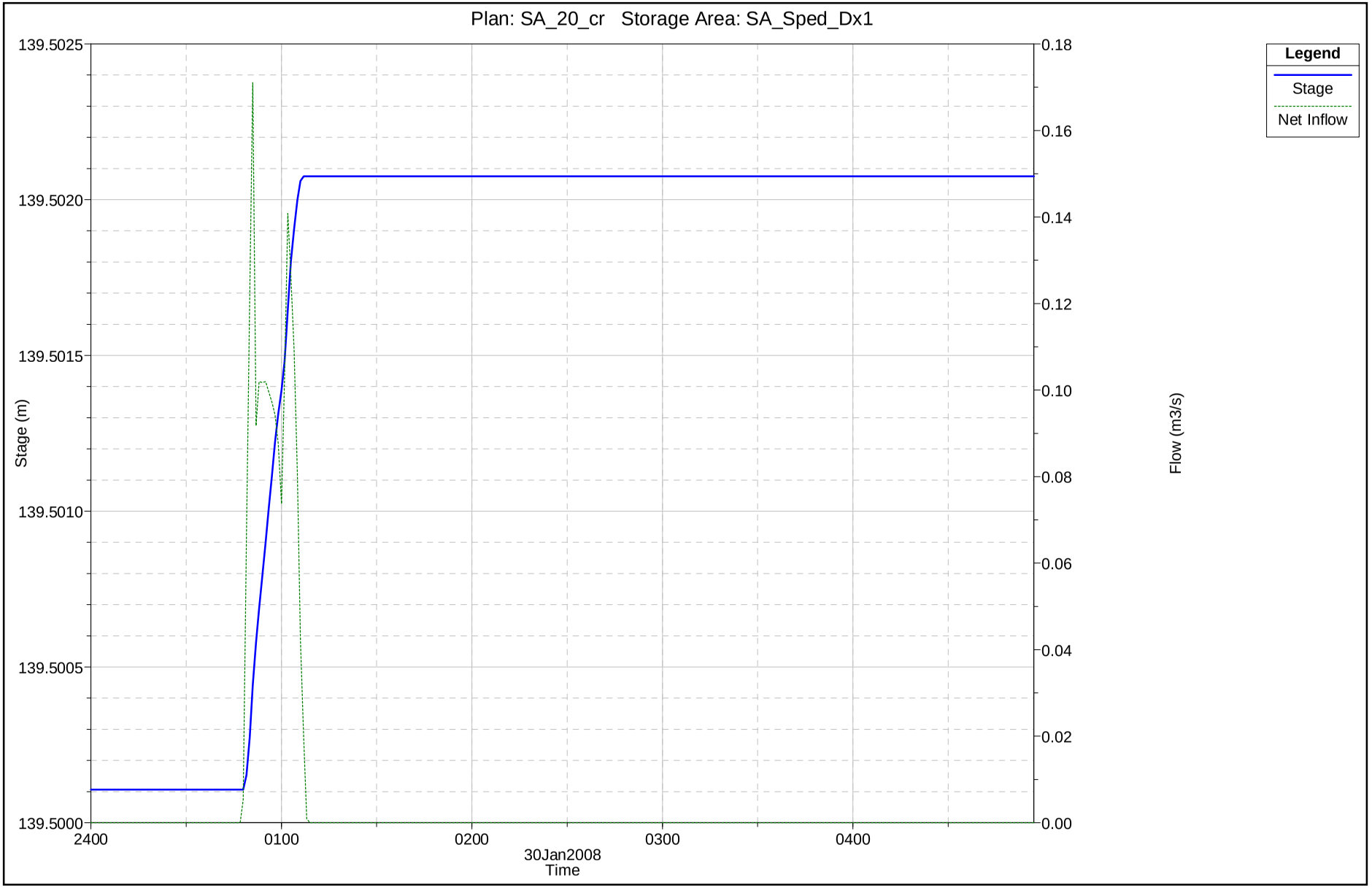
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	04	Max WS	SA_30_cr	9.57	138.61	139.81		140.17	0.007268	2.66	3.60	4.28	0.93
Spedaluzzo	04	Max WS	SA_20_cr	9.00	138.61	139.78		140.13	0.007274	2.62	3.44	4.20	0.92
Spedaluzzo	03	Max WS	SA_200_cr	12.00	138.27	139.65		140.01	0.006407	2.65	4.52	4.87	0.88
Spedaluzzo	03	Max WS	SA_100_cr	11.01	138.27	139.58		139.93	0.006527	2.61	4.21	4.72	0.88
Spedaluzzo	03	Max WS	SA_30_cr	9.57	138.27	139.49		139.81	0.006677	2.54	3.76	4.50	0.89
Spedaluzzo	03	Max WS	SA_20_cr	9.00	138.27	139.45		139.77	0.006729	2.51	3.59	4.40	0.89
Spedaluzzo	02	Max WS	SA_200_cr	11.99	137.79	139.42		139.65	0.003385	2.10	5.70	5.29	0.65
Spedaluzzo	02	Max WS	SA_100_cr	11.00	137.79	139.34		139.56	0.003529	2.09	5.26	5.11	0.66
Spedaluzzo	02	Max WS	SA_30_cr	9.56	137.79	139.21		139.42	0.003781	2.07	4.62	4.82	0.67
Spedaluzzo	02	Max WS	SA_20_cr	8.98	137.79	139.15		139.37	0.003893	2.06	4.36	4.70	0.68
Spedaluzzo	01	Max WS	SA_200_cr	11.98	137.36	138.97	138.81	139.38	0.007056	2.84	4.22	3.53	0.83
Spedaluzzo	01	Max WS	SA_100_cr	10.99	137.36	138.90	138.74	139.29	0.007029	2.78	3.96	3.44	0.83
Spedaluzzo	01	Max WS	SA_30_cr	9.55	137.36	138.78	138.63	139.15	0.007064	2.69	3.55	3.31	0.83
Spedaluzzo	01	Max WS	SA_20_cr	8.98	137.36	138.73	138.59	139.09	0.007068	2.65	3.39	3.25	0.83

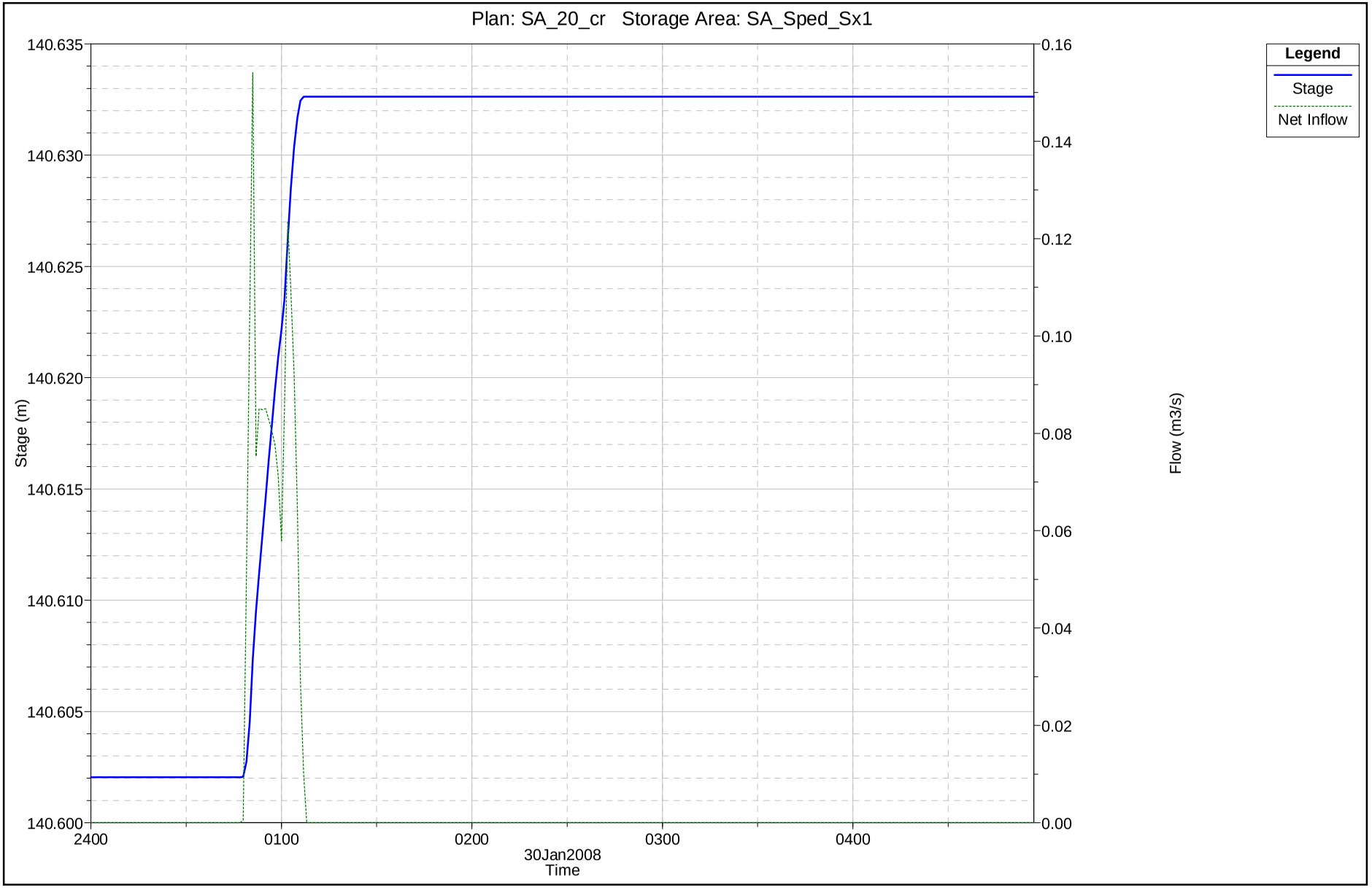
HEC-RAS Profile: Max WS

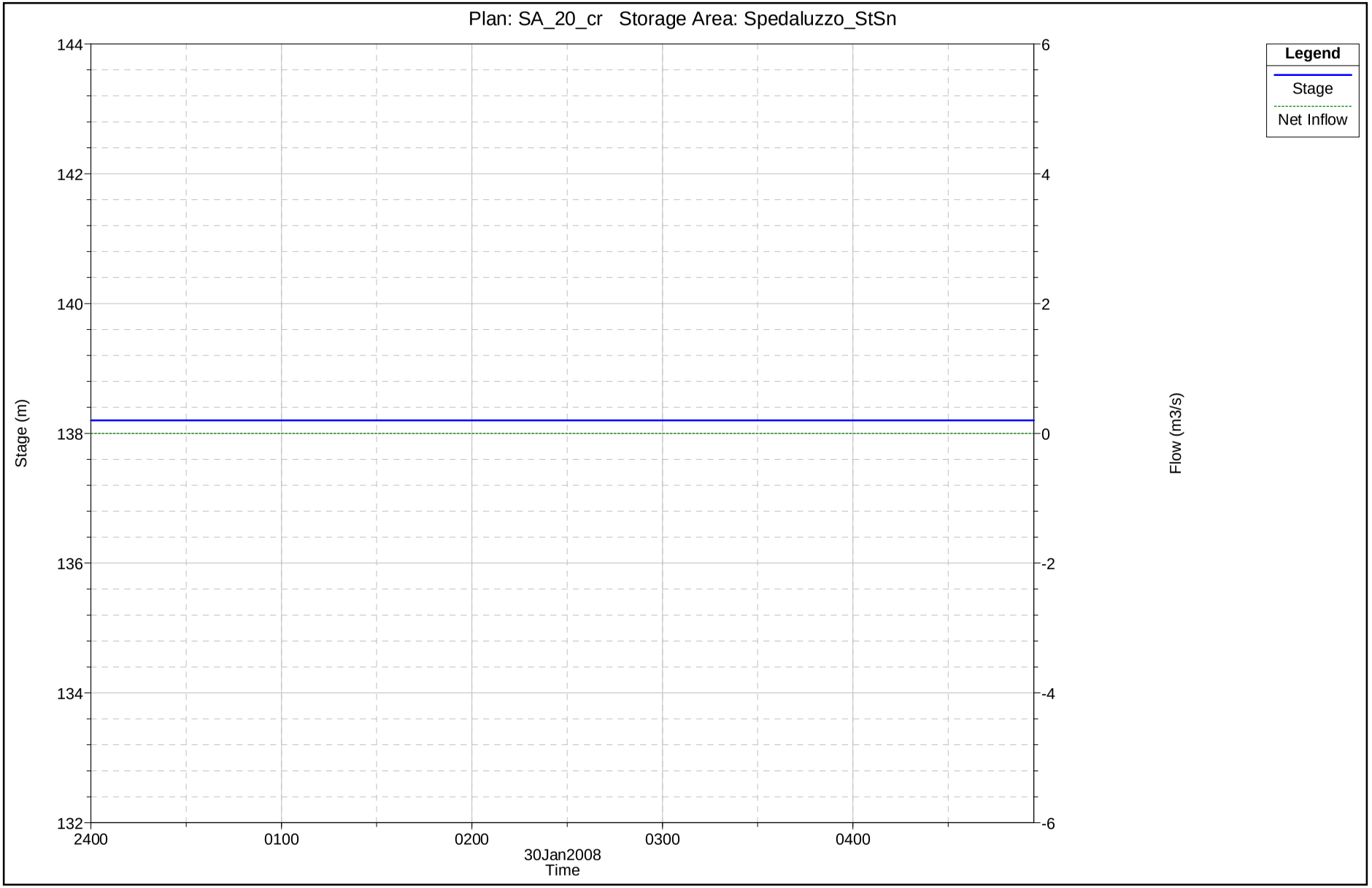
Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
36_dx	Max WS	SA_200_cr	143.01	143.00	0.27	2.50	0.03
36_dx	Max WS	SA_100_cr	143.00	143.00	0.00	2.50	0.00
36_dx	Max WS	SA_30_cr	143.00	143.00	0.00	2.50	0.00
36_dx	Max WS	SA_20_cr	143.00	143.00	0.00	2.50	0.00
36_sx	Max WS	SA_200_cr	143.03	143.00	0.27	1.30	0.03
36_sx	Max WS	SA_100_cr	143.00	143.00	0.00	1.30	0.00
36_sx	Max WS	SA_30_cr	143.00	143.00	0.00	1.30	0.00
36_sx	Max WS	SA_20_cr	143.00	143.00	0.00	1.30	0.00
SA_Sped_Dx1	Max WS	SA_200_cr	139.78	139.50	6.01	56.00	15.41
SA_Sped_Dx1	Max WS	SA_100_cr	139.57	139.50	3.16	56.00	3.65
SA_Sped_Dx1	Max WS	SA_30_cr	139.55	139.50	0.52	56.00	2.78
SA_Sped_Dx1	Max WS	SA_20_cr	139.50	139.50	0.18	56.00	0.12
SA_Sped_Sx1	Max WS	SA_200_cr	141.86	140.60	2.63	6.00	5.47
SA_Sped_Sx1	Max WS	SA_100_cr	141.44	140.60	2.33	6.00	2.96
SA_Sped_Sx1	Max WS	SA_30_cr	141.36	140.60	0.52	6.00	2.46
SA_Sped_Sx1	Max WS	SA_20_cr	140.63	140.60	0.16	3.00	0.10
Spedaluzzo_StSn	Max WS	SA_200_cr	138.21	138.20	0.08	9.00	0.10
Spedaluzzo_StSn	Max WS	SA_100_cr	138.20	138.20	0.01	9.00	0.01
Spedaluzzo_StSn	Max WS	SA_30_cr	138.20	138.20	0.00	9.00	0.00
Spedaluzzo_StSn	Max WS	SA_20_cr	138.20	138.20	0.00	9.00	0.00

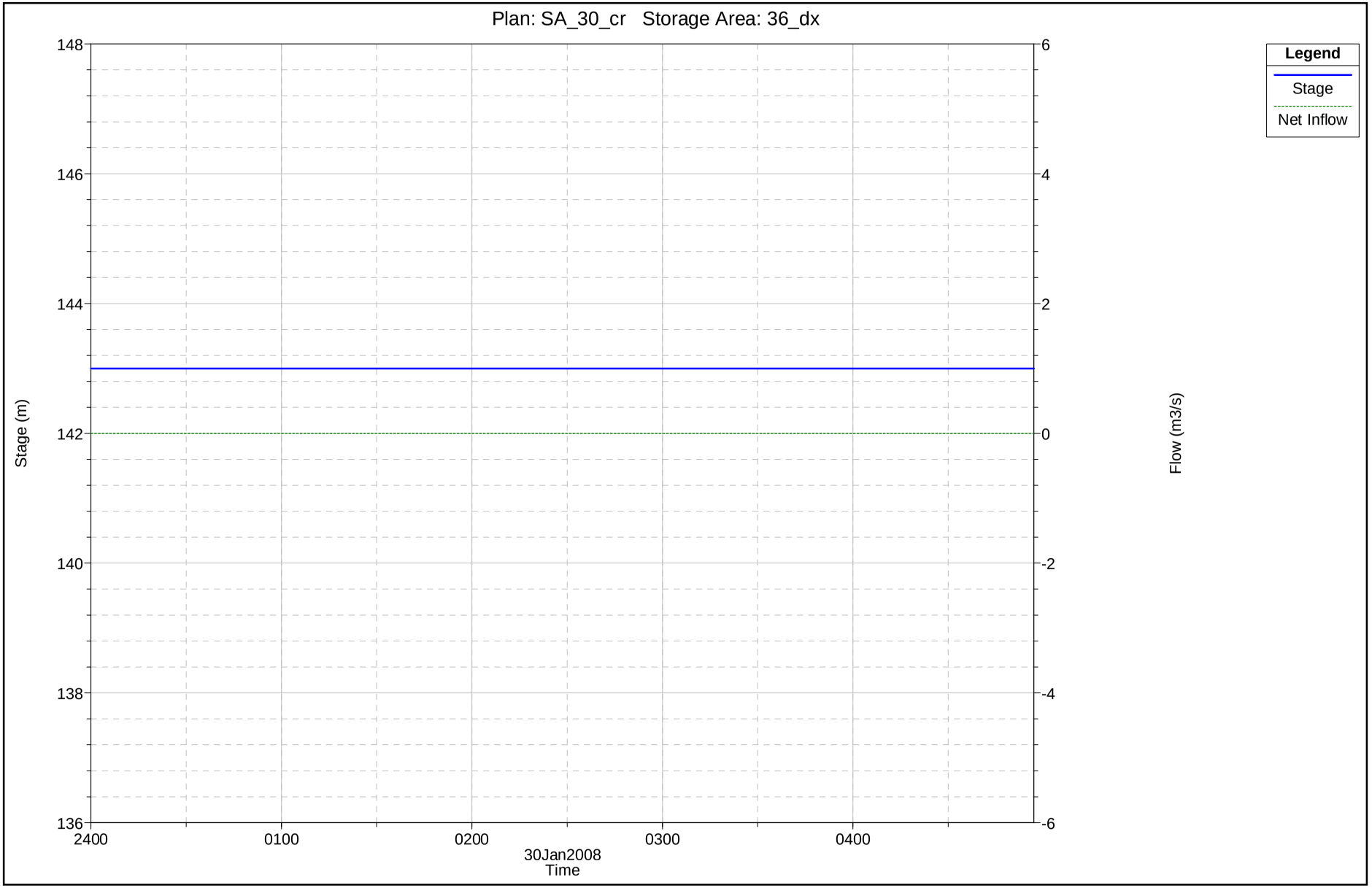

Plan: SA_20_cr Storage Area: 36_dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148
146
144
142
140
138
136
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
30Jan2008
Time

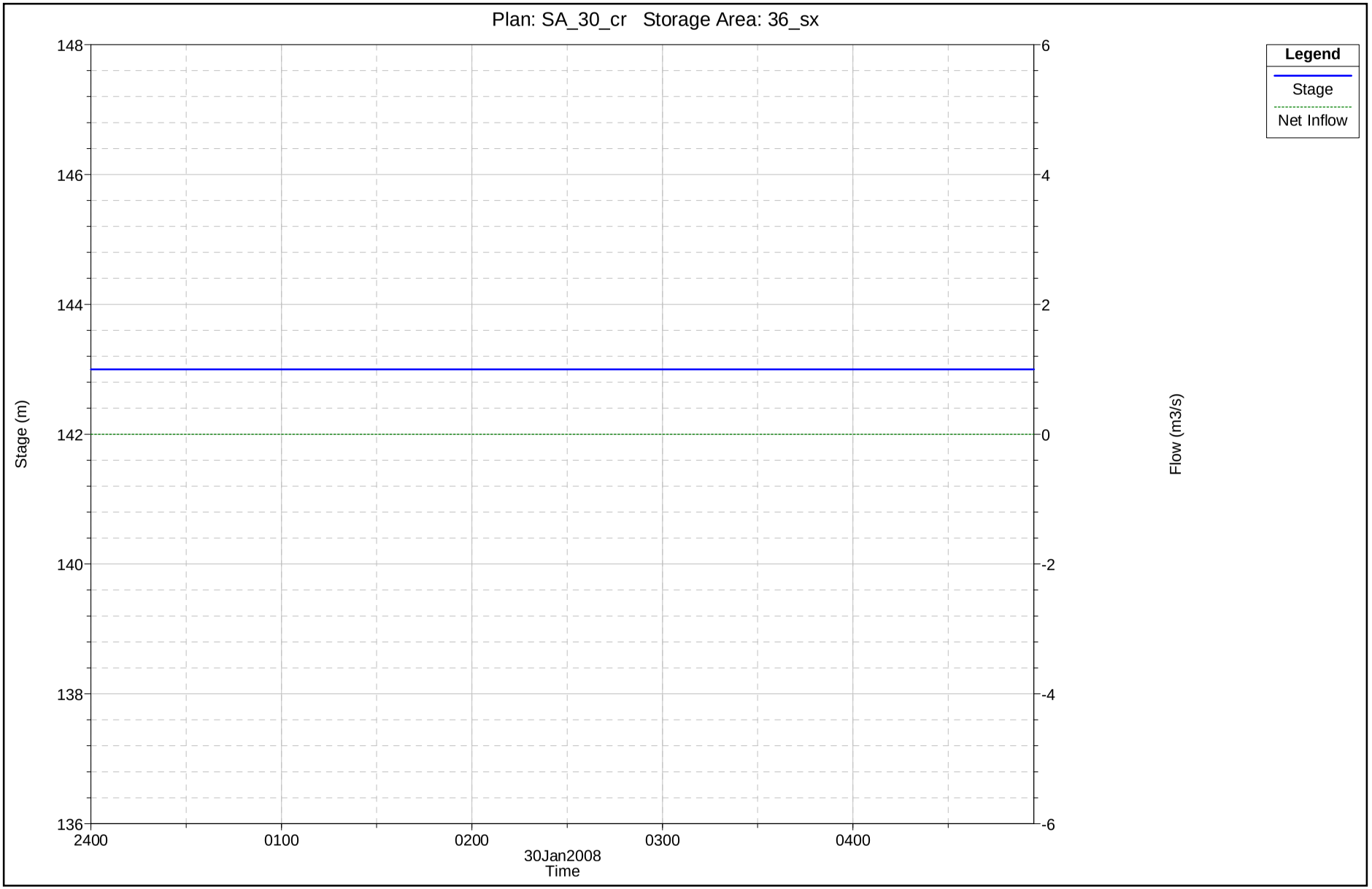

Plan: SA_20_cr Storage Area: 36_sx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148
146
144
142
140
138
136
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
30Jan2008
Time

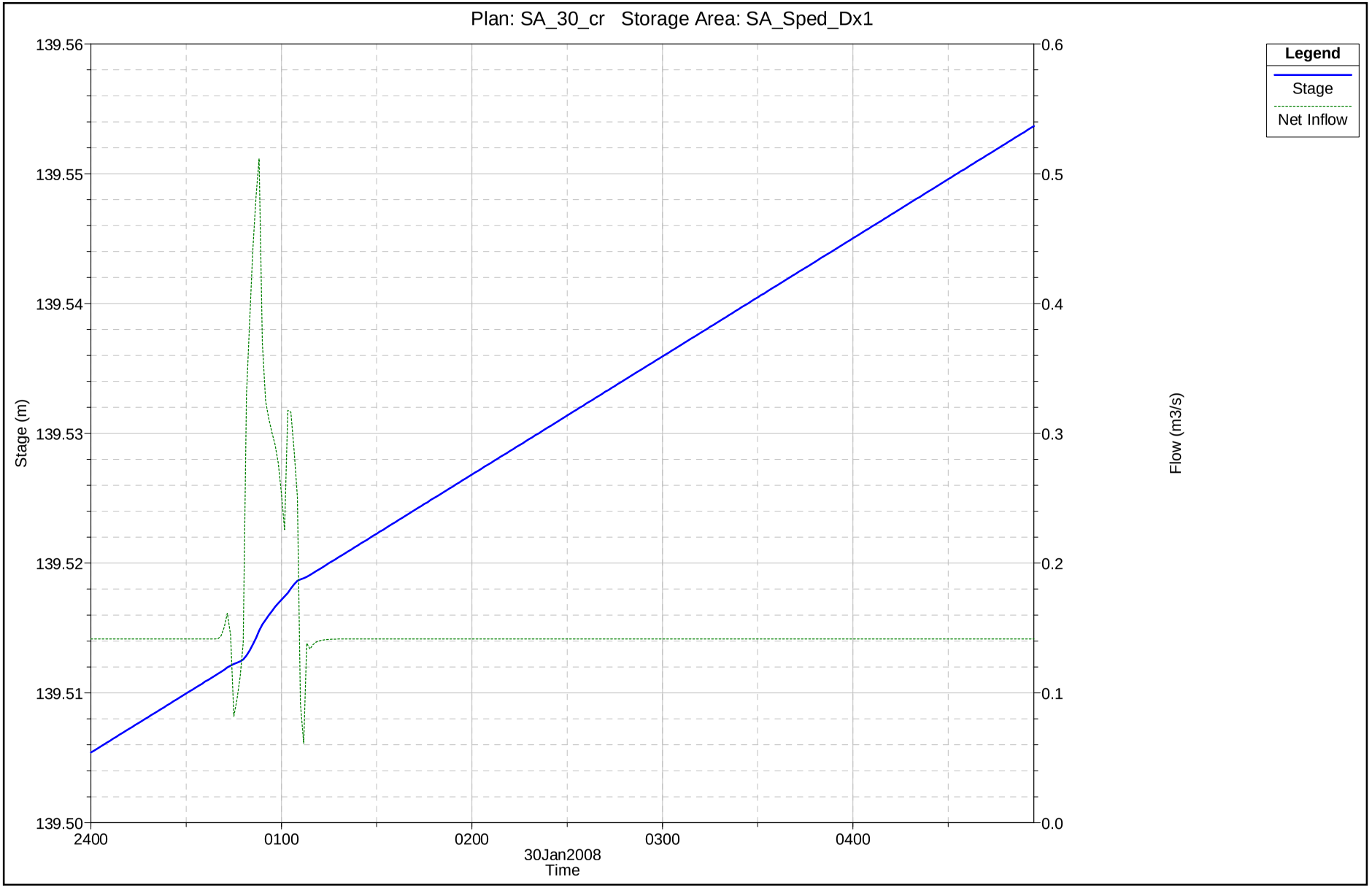

Plan: SA_20_cr Storage Area: SA_Sped_Dx1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
139.5025
139.5020
139.5015
139.5010
139.5005
139.5000
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
2400
0100
0200
0300
0400
30Jan2008
Time

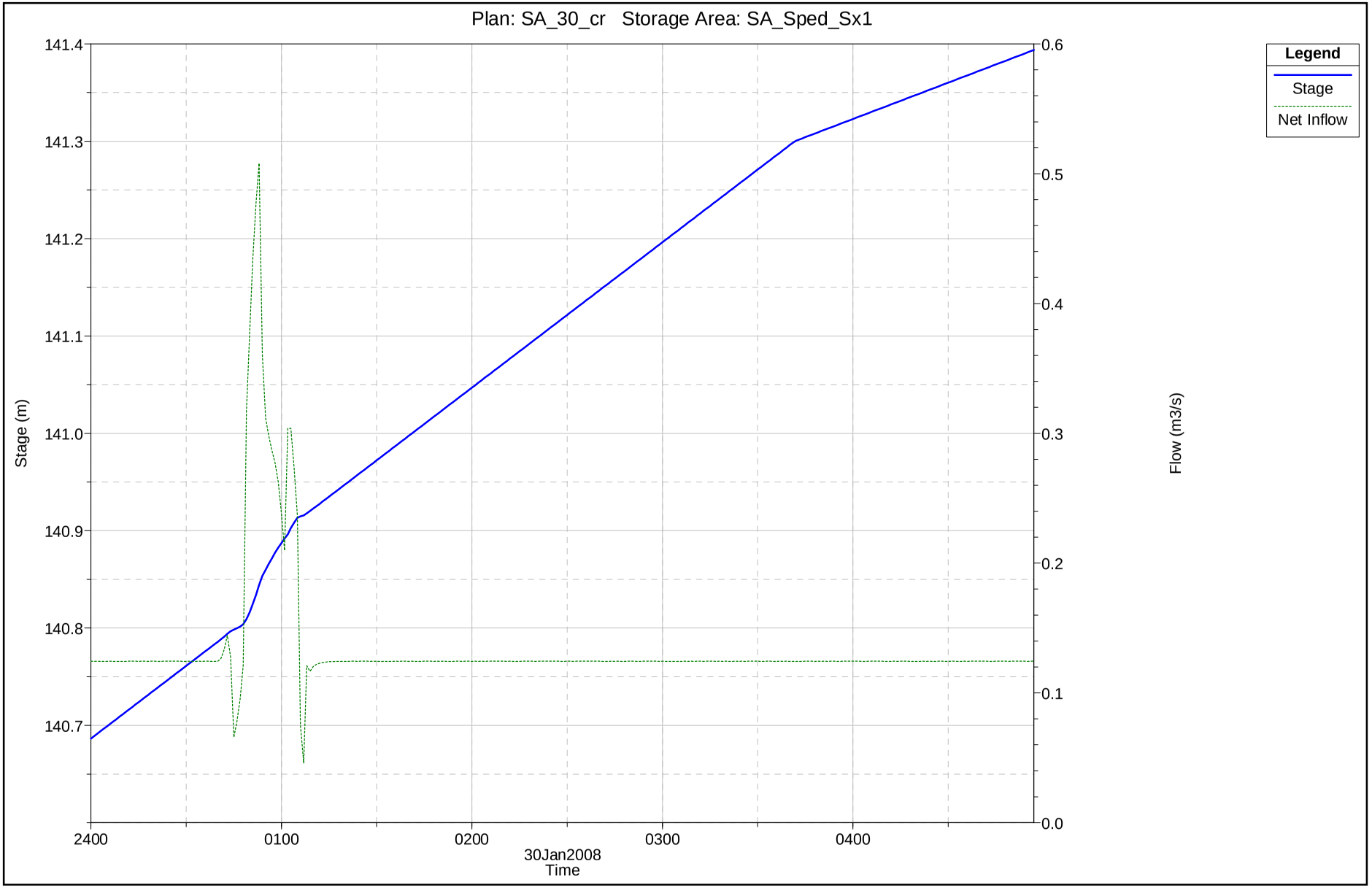

Plan: SA_20_cr Storage Area: SA_Sped_Sx1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
140.635
140.630
140.625
140.620
140.615
140.610
140.605
140.600
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
2400
0100
0200
0300
0400
30Jan2008
Time

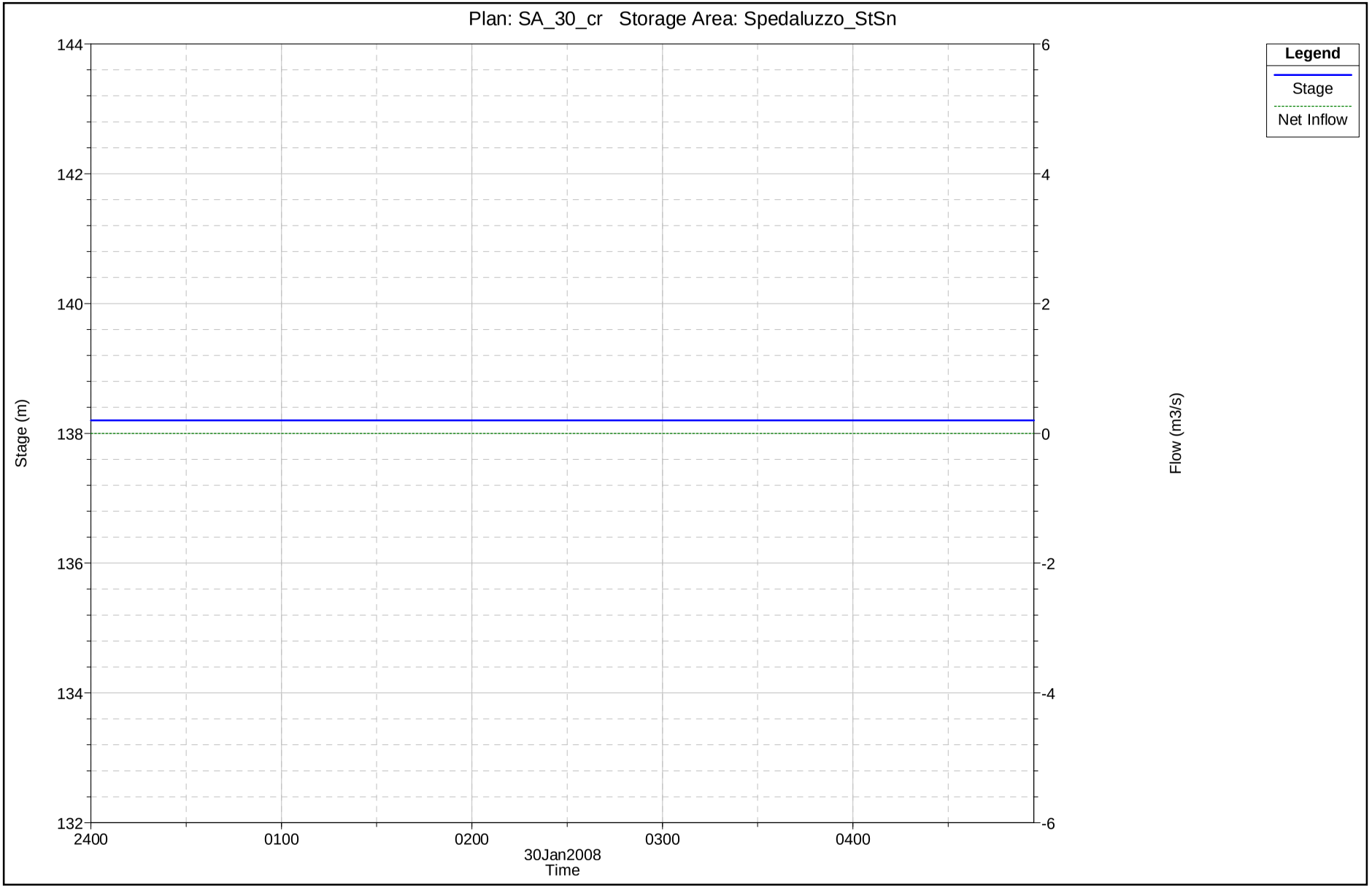

Plan: SA_20_cr Storage Area: Spedaluzzo_StSn
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
144
142
140
138
136
134
132
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
30Jan2008
Time

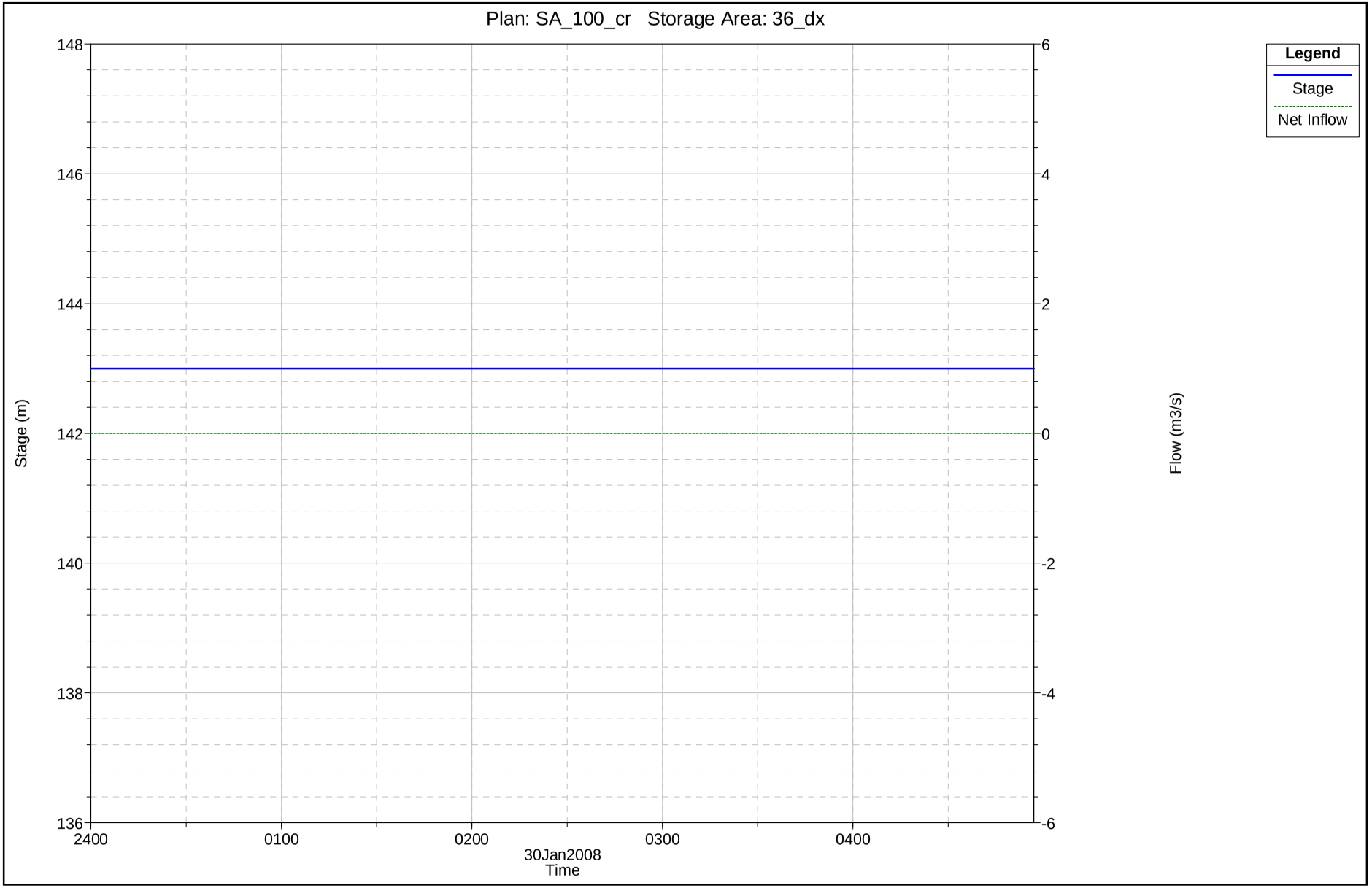

Plan: SA_30_cr Storage Area: 36_dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148
146
144
142
140
138
136
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
30Jan2008
Time

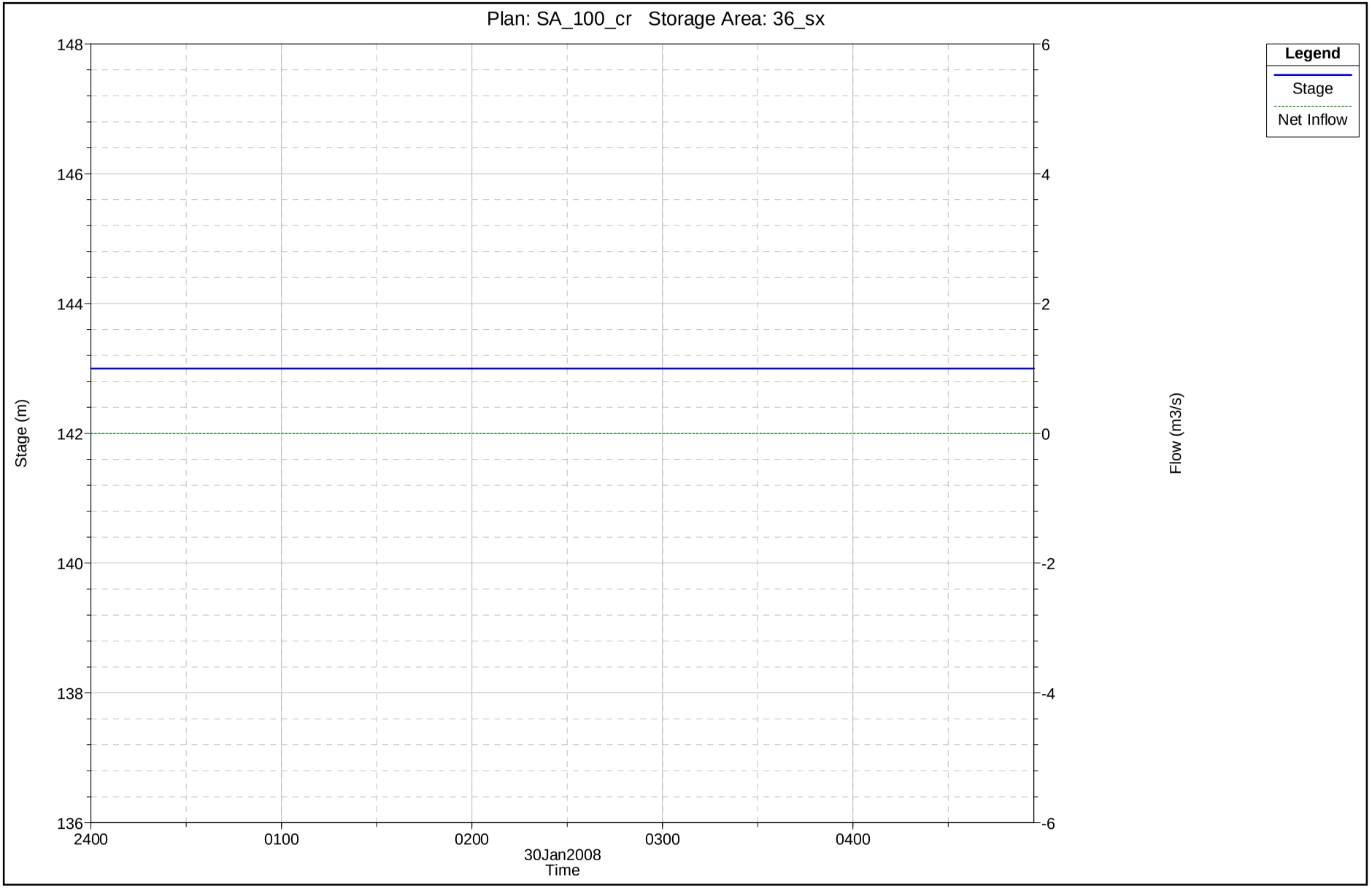

Plan: SA_30_cr Storage Area: 36_sx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148
146
144
142
140
138
136
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
30Jan2008
Time

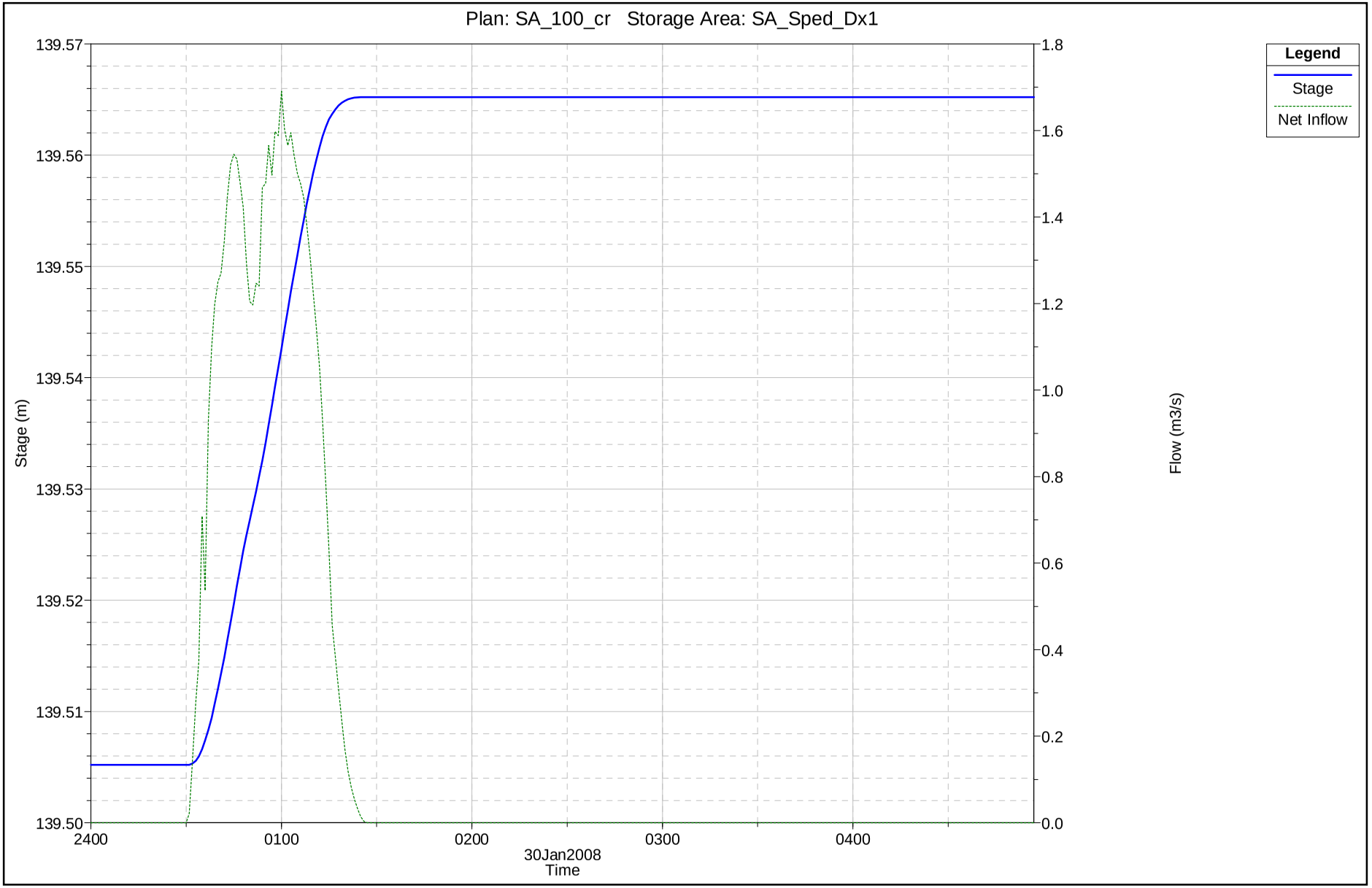

Plan: SA_30_cr Storage Area: SA_Sped_Dx1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
139.56
139.55
139.54
139.53
139.52
139.51
139.50
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
30Jan2008
Time

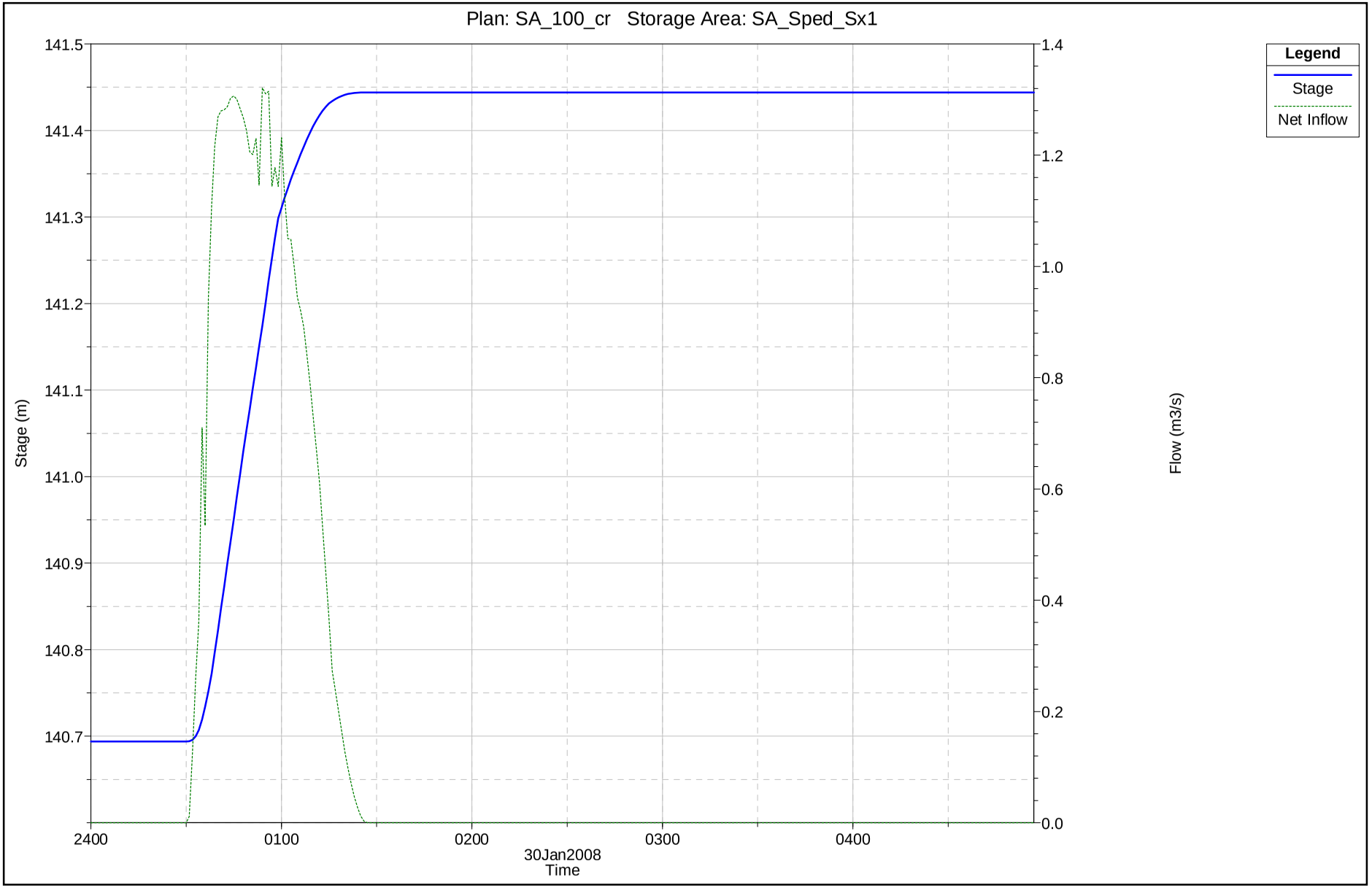

Plan: SA_30_cr Storage Area: SA_Sped_Sx1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
141.4
141.3
141.2
141.1
141.0
140.9
140.8
140.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
30Jan2008
Time

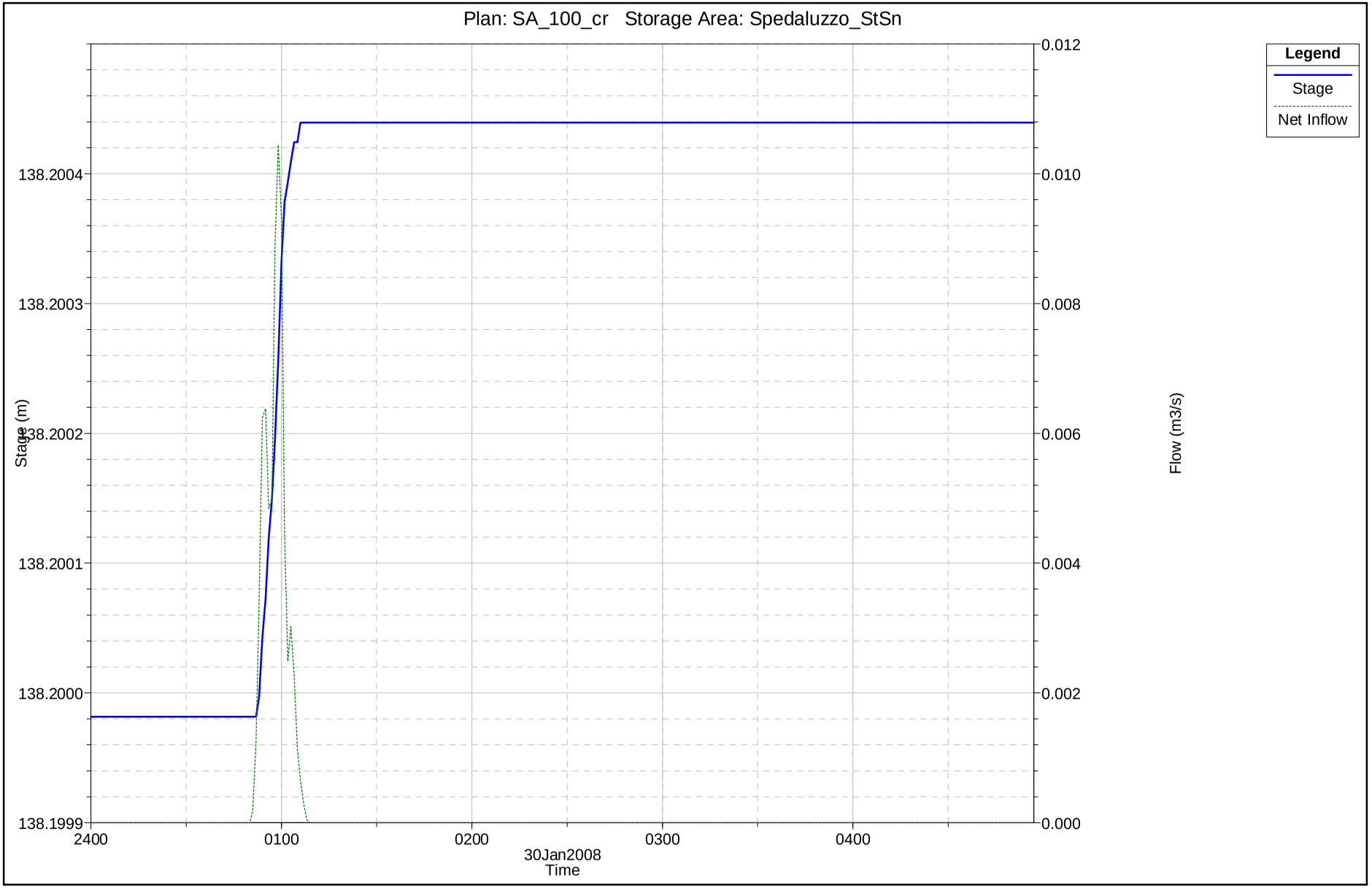

Plan: SA_30_cr Storage Area: Spedaluzzo_StSn
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
144
142
140
138
136
134
132
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
30Jan2008
Time

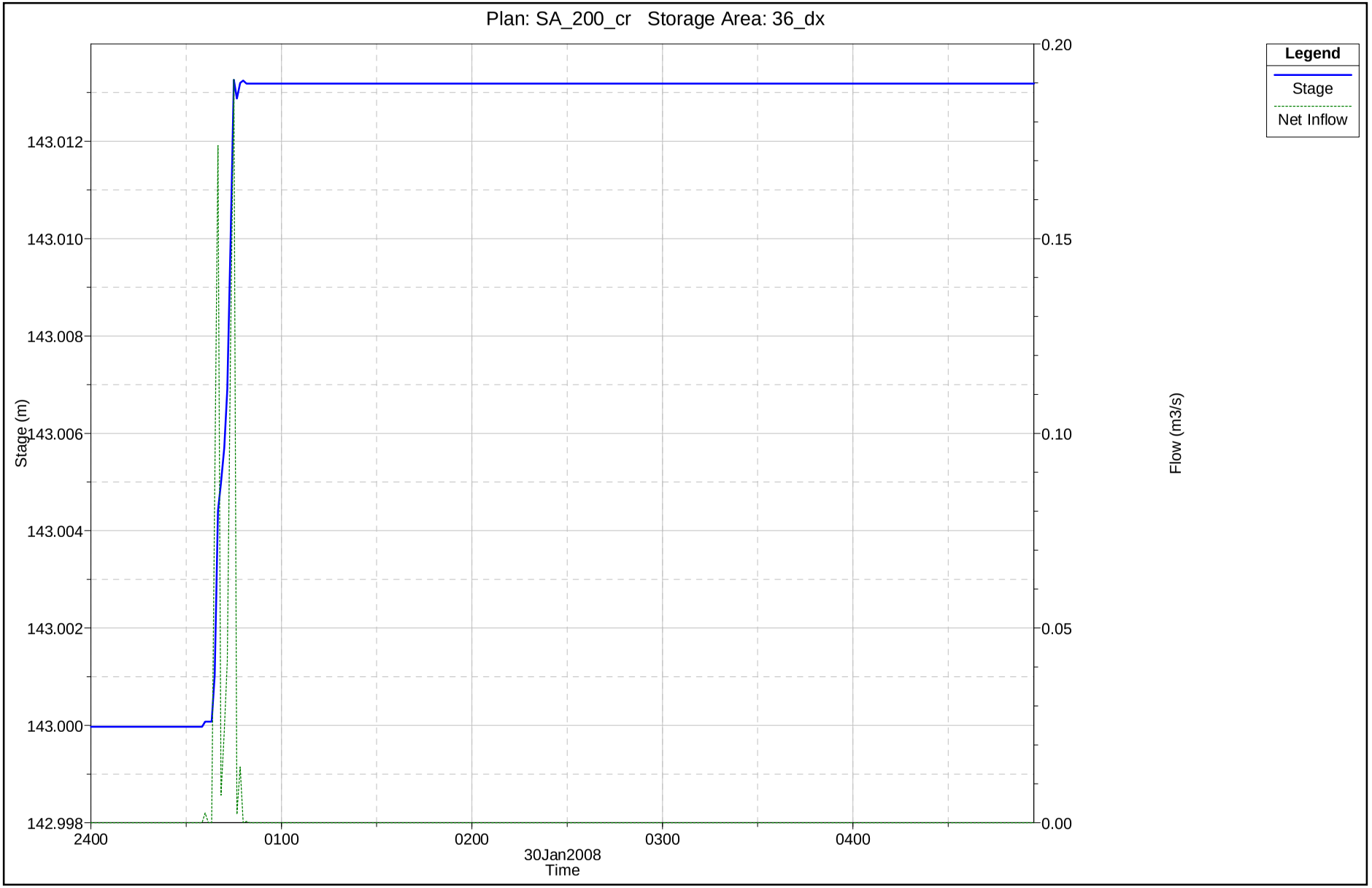

Plan: SA_100_cr Storage Area: 36_dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148
146
144
142
140
138
136
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
30Jan2008
Time

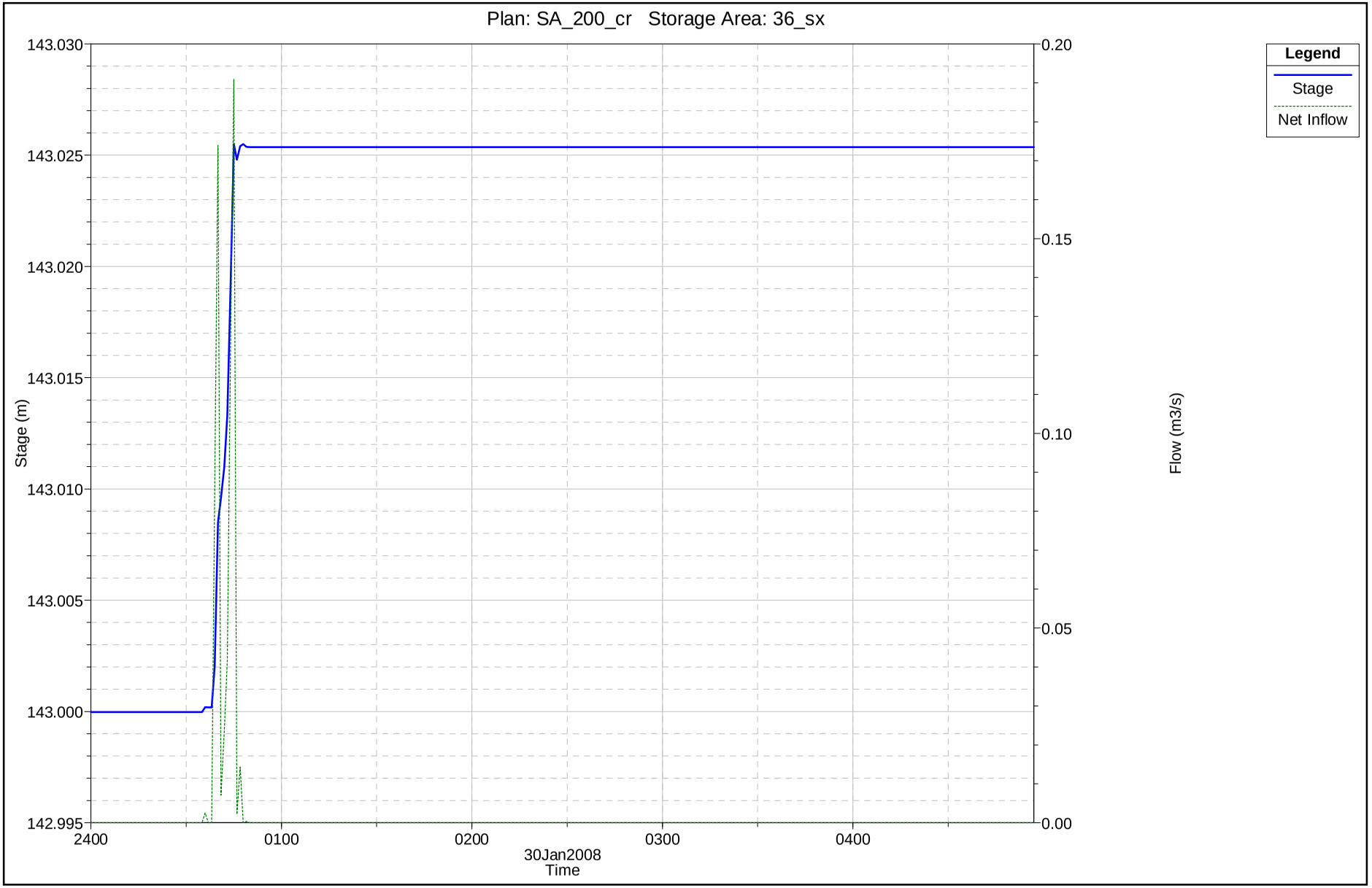

Plan: SA_100_cr Storage Area: 36_sx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148
146
144
142
140
138
136
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
30Jan2008
Time

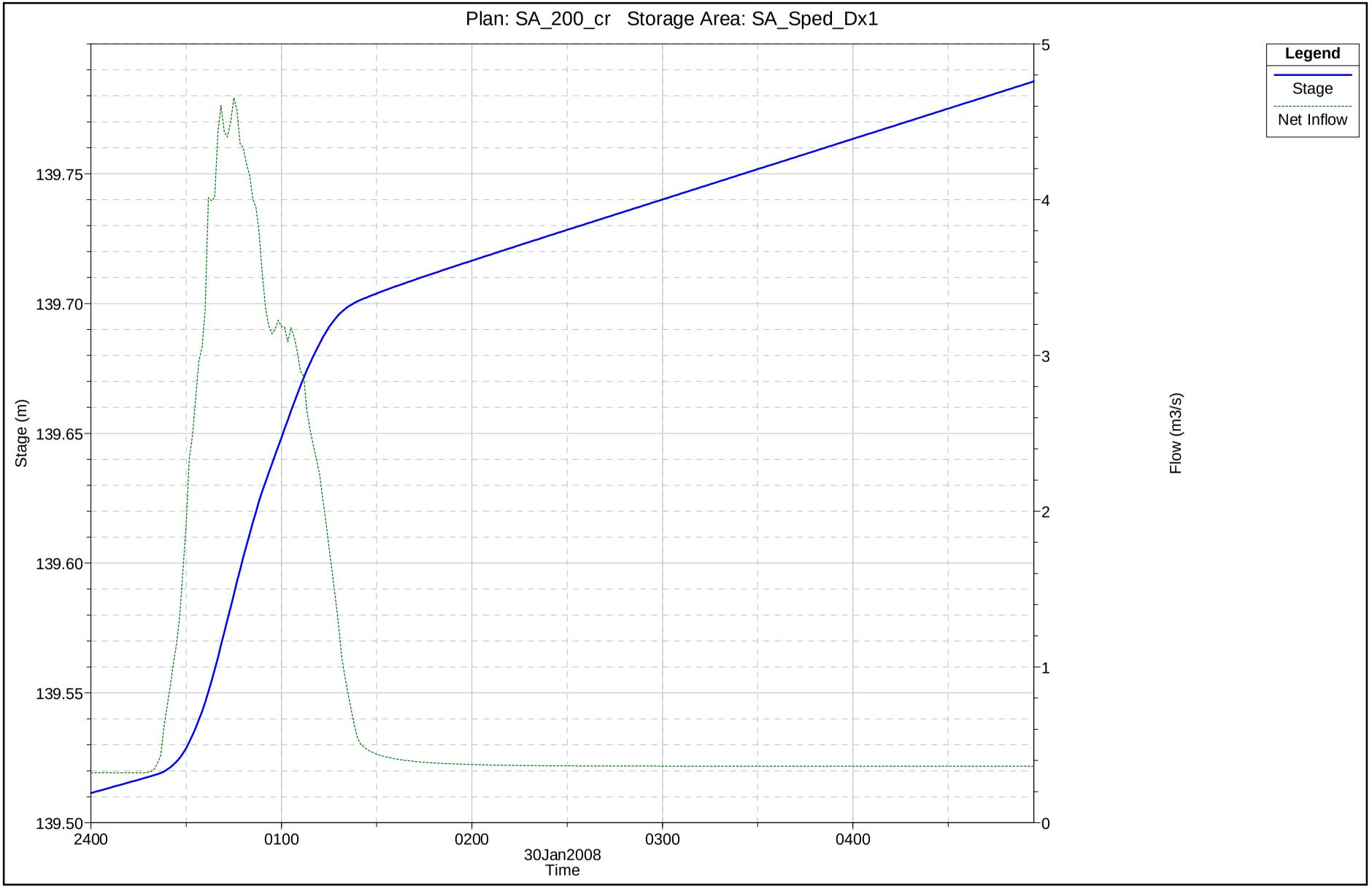

Plan: SA_100_cr Storage Area: SA_Sped_Dx1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
139.57
139.56
139.55
139.54
139.53
139.52
139.51
139.50
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
30Jan2008
Time

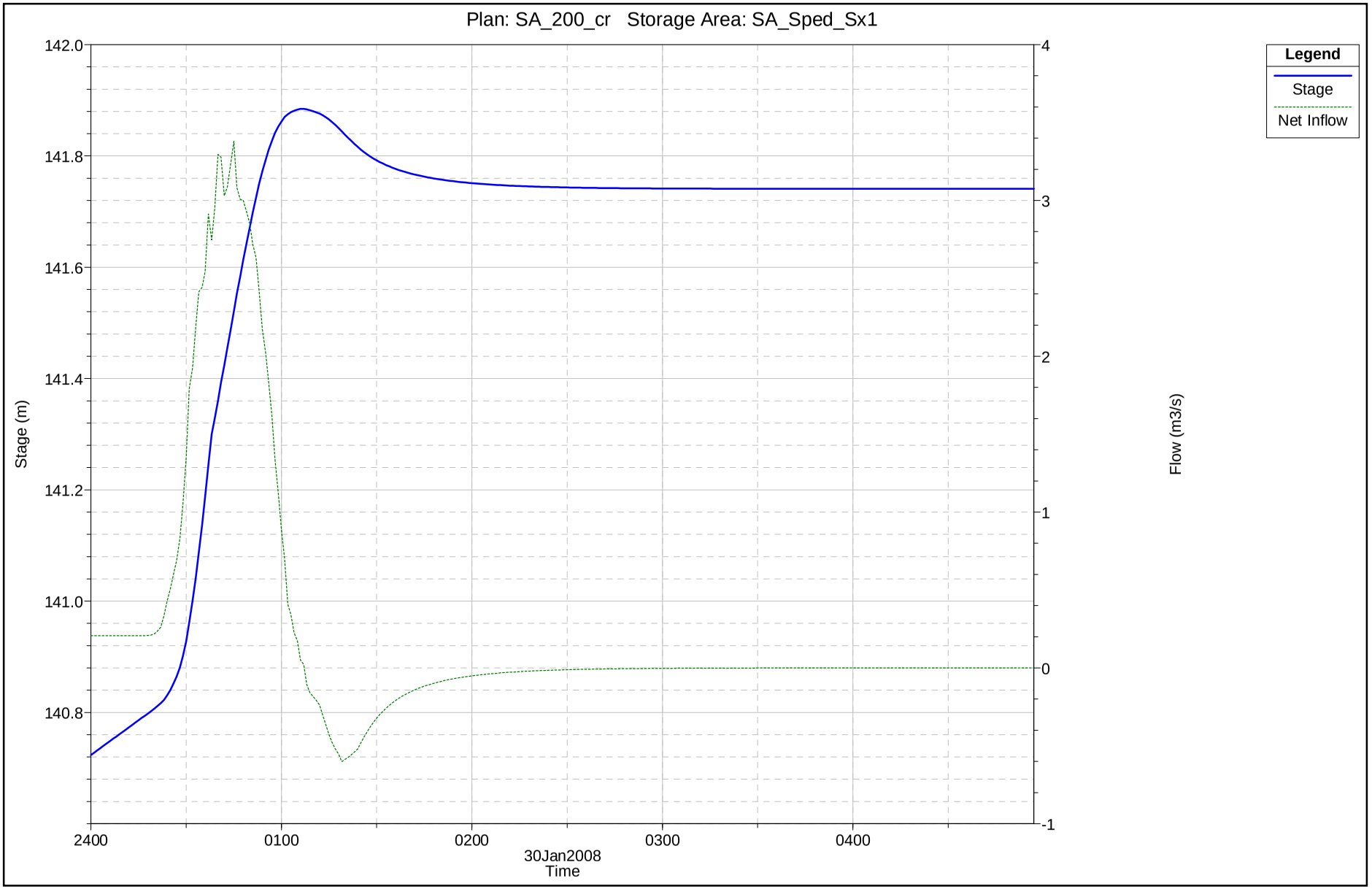

Plan: SA_100_cr Storage Area: SA_Sped_Sx1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
141.5
141.4
141.3
141.2
141.1
141.0
140.9
140.8
140.7
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
30Jan2008
Time

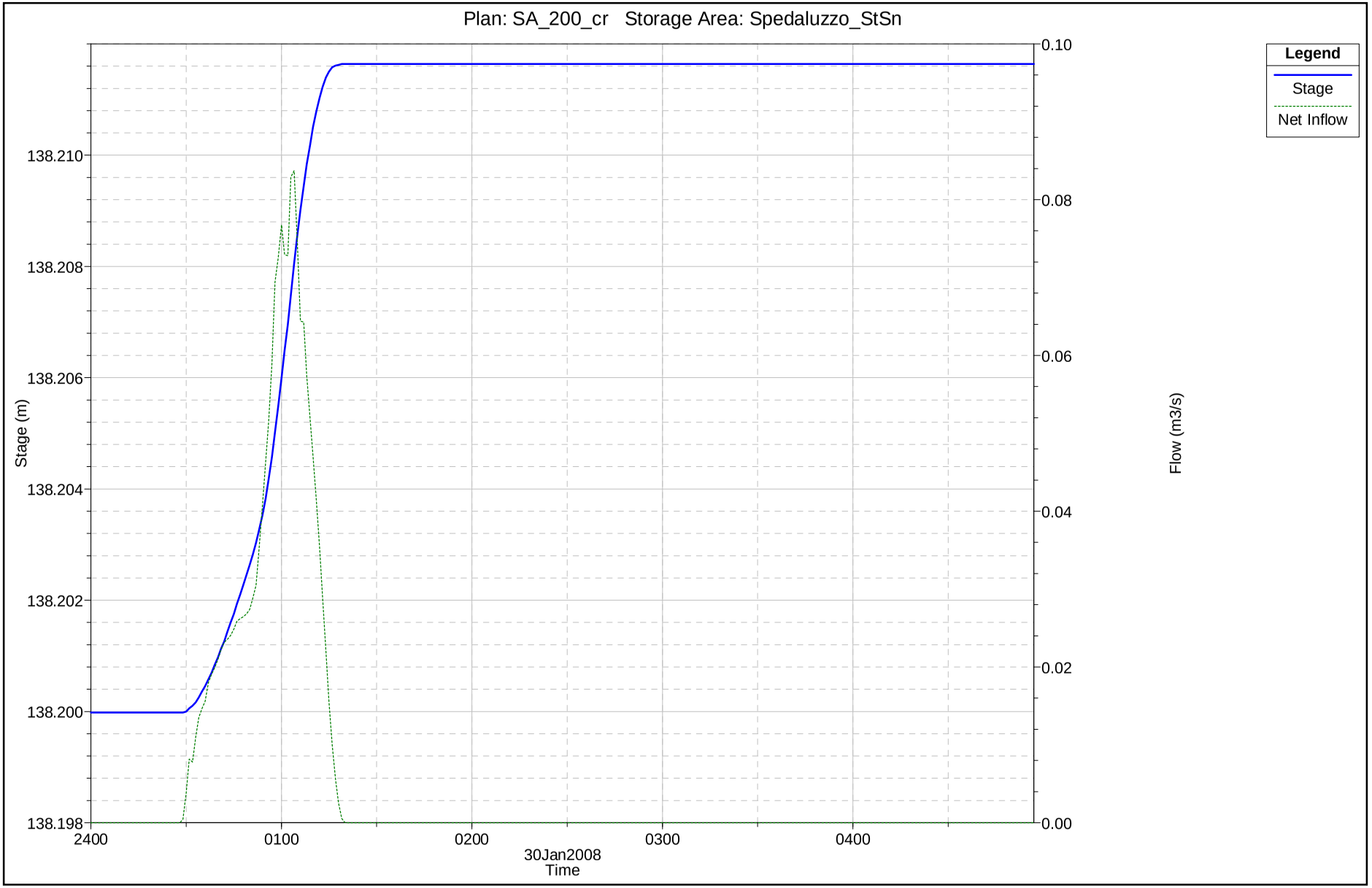

Plan: SA_100_cr Storage Area: Spedaluzzo_StSn
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
138.2004
138.2003
138.2002
138.2001
138.2000
138.1999
0.012
0.010
0.008
0.006
0.004
0.002
0.000
2400
0100
0200
0300
0400
30Jan2008
Time

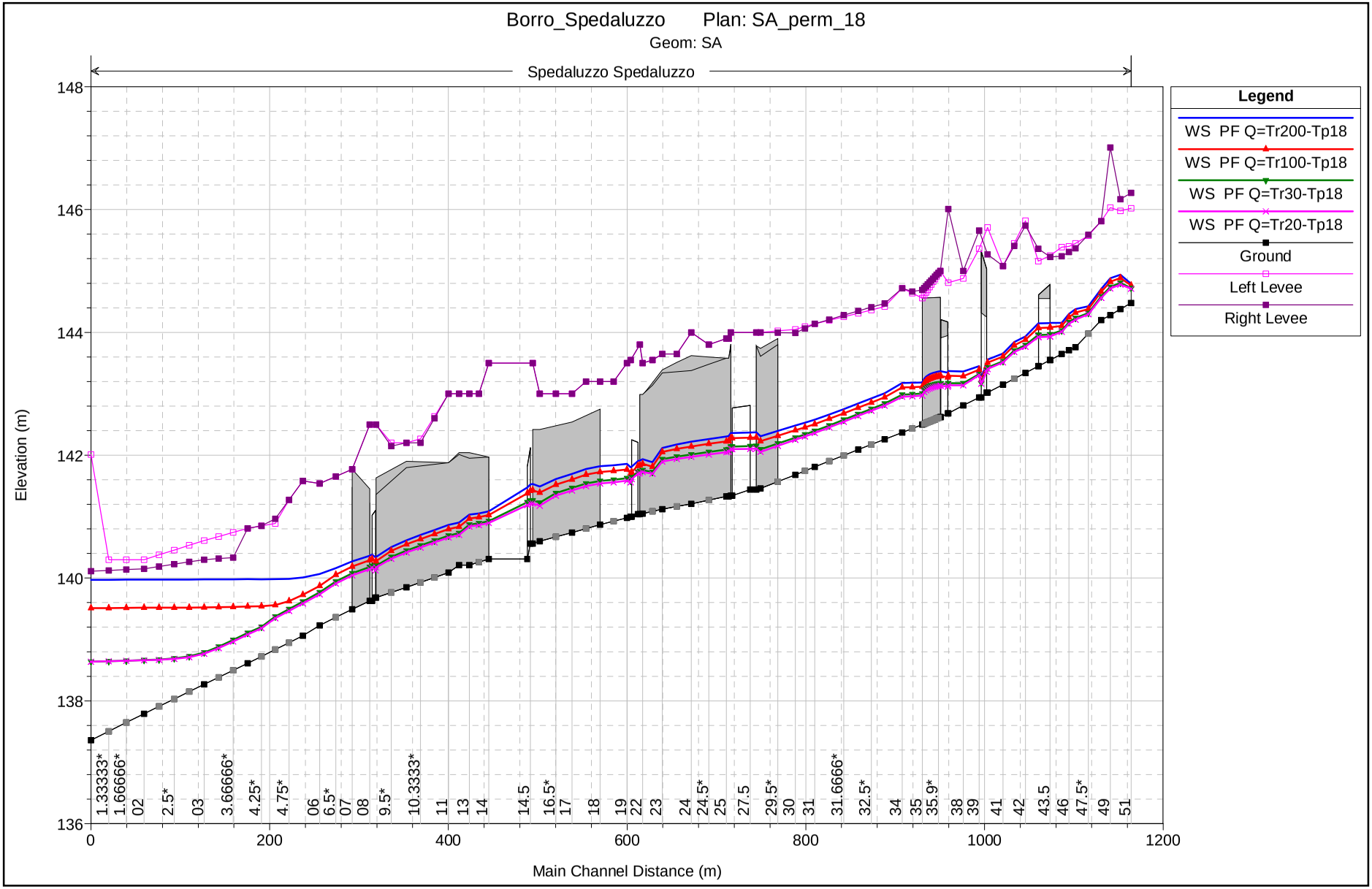

Plan: SA_200_cr Storage Area: 36_dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
143.012
143.010
143.008
143.006
143.004
143.002
143.000
142.998
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
30Jan2008
Time

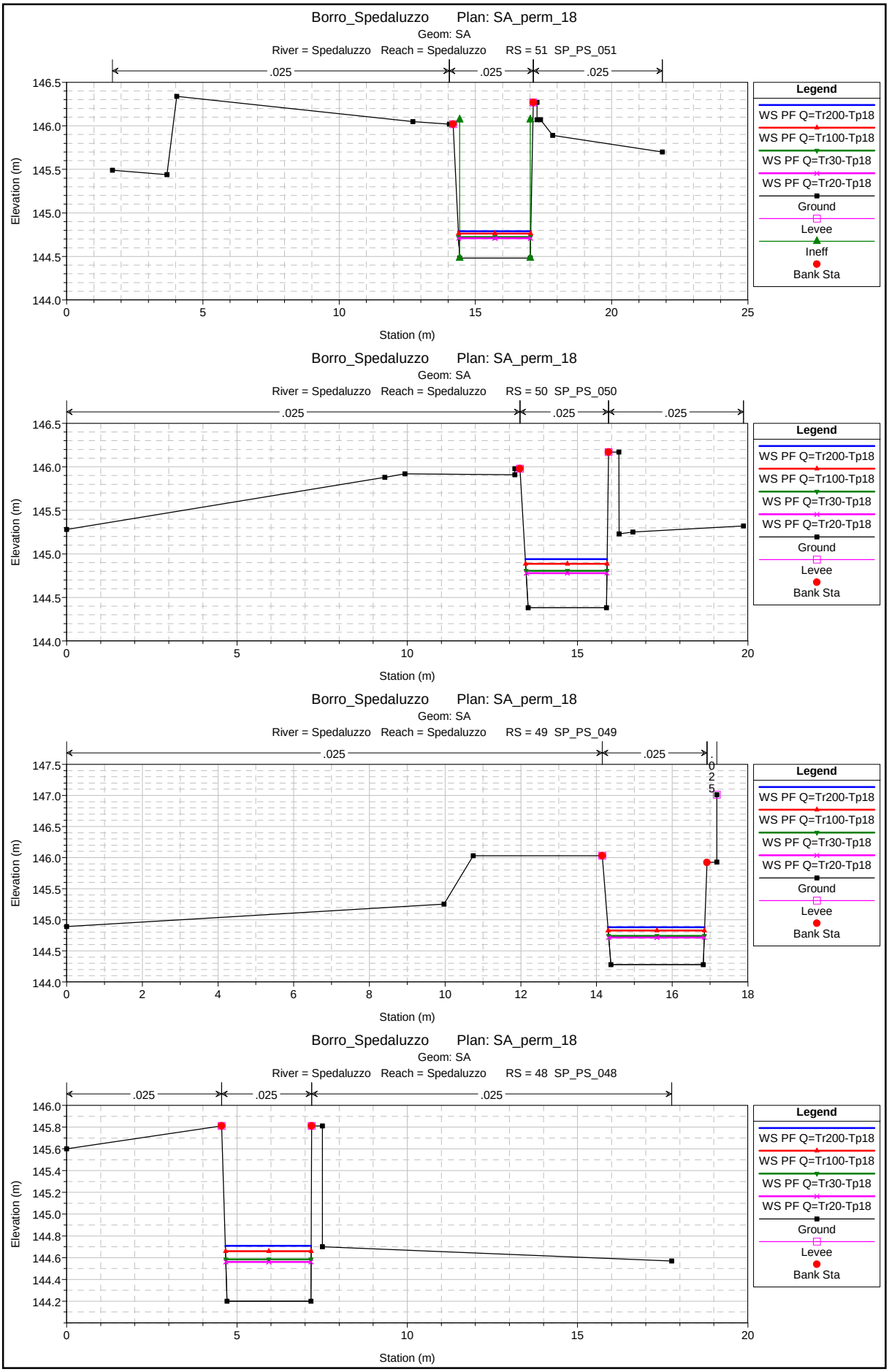

Plan: SA_200_cr Storage Area: 36_sx
Legend
Stage
Net Inflow
143.030
143.025
143.020
143.015
143.010
143.005
143.000
142.995
Stage (m)
0.20
0.15
0.10
0.05
0.00
Flow (m3/s)
2400
0100
0200
0300
0400
30Jan2008
Time

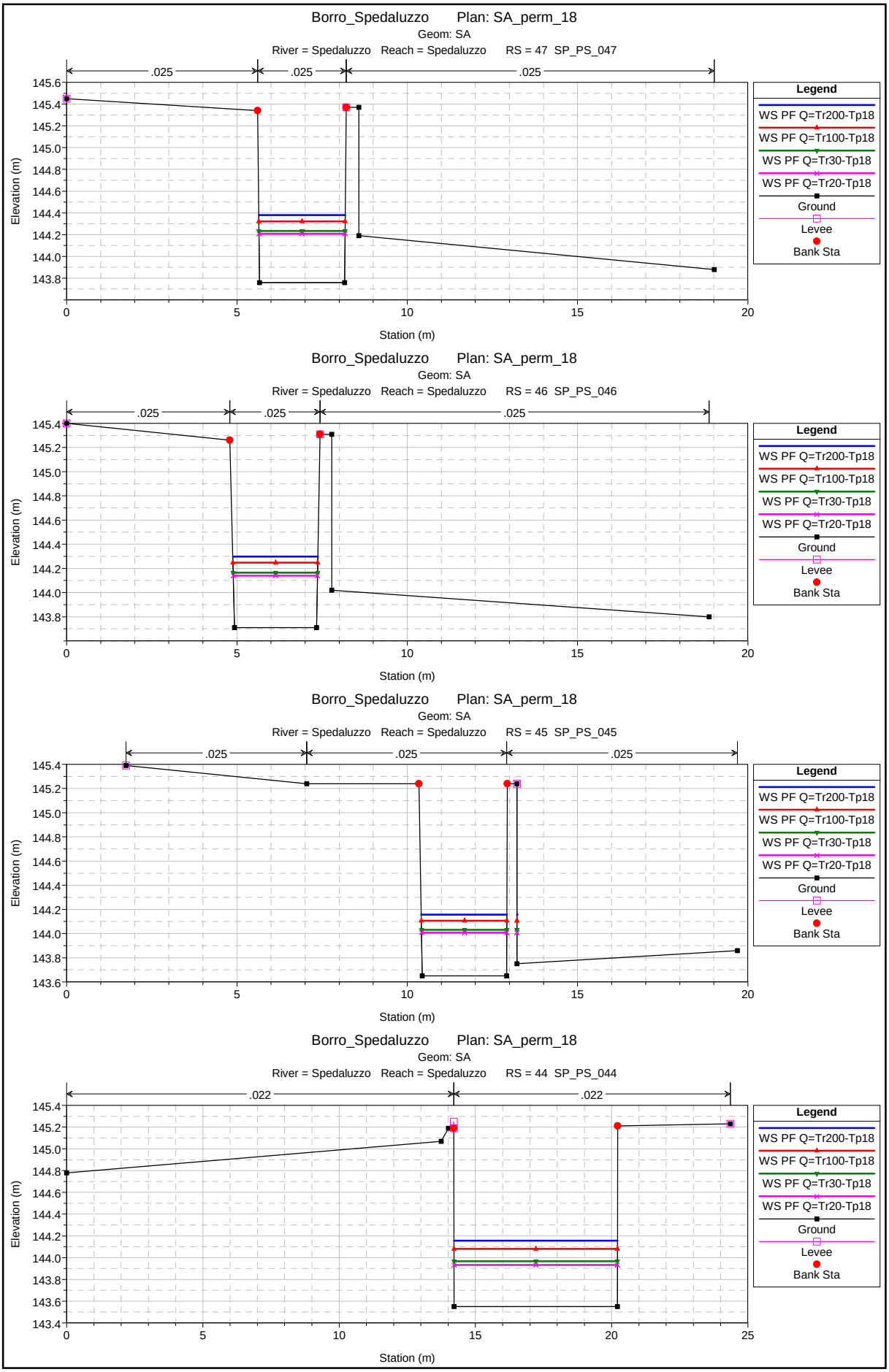

Plan: SA_200_cr Storage Area: SA_Sped_Dx1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
139.75
139.70
139.65
139.60
139.55
139.50
5
4
3
2
1
0
2400
0100
0200
0300
0400
30Jan2008
Time

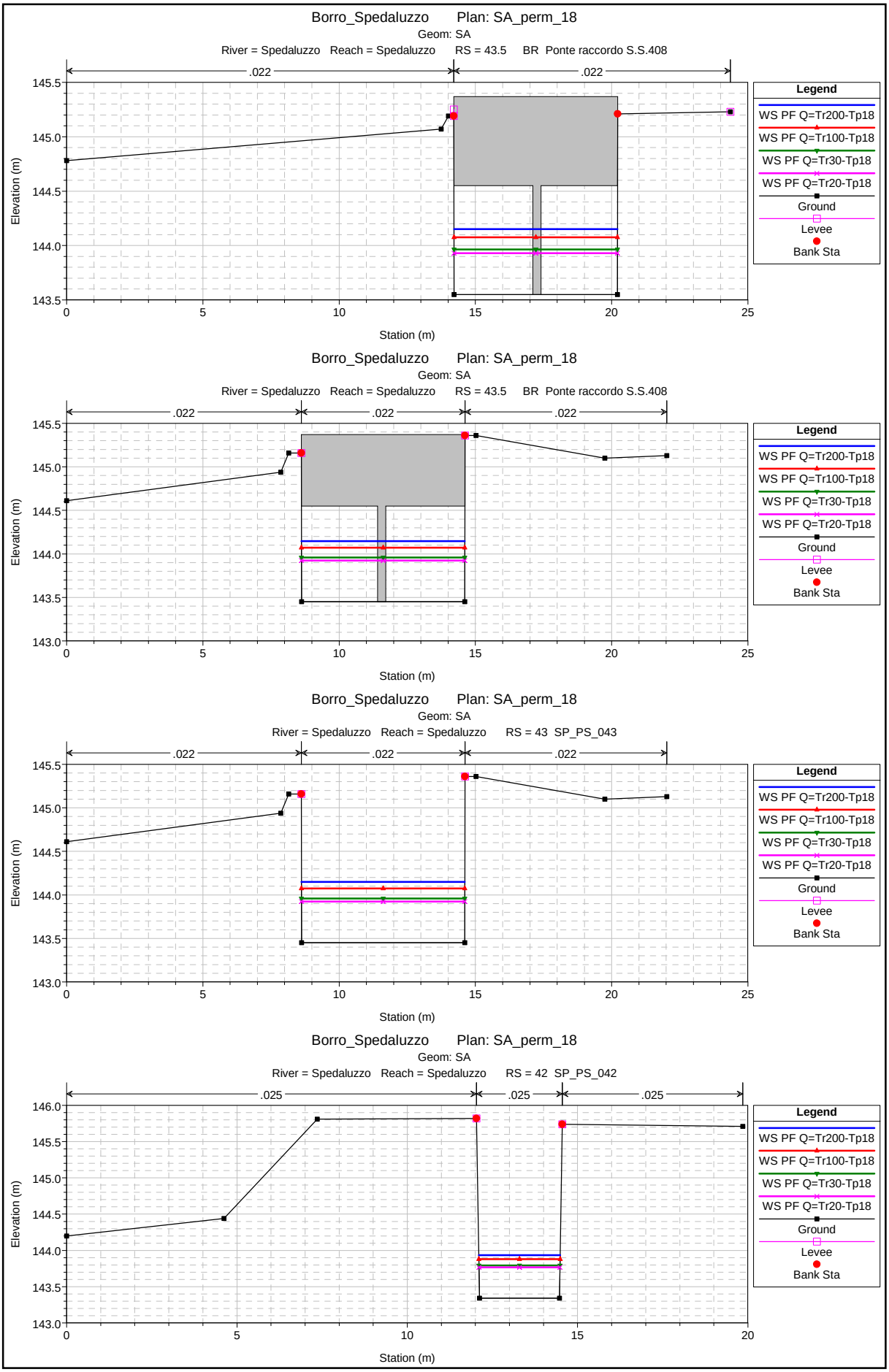

Plan: SA_200_cr Storage Area: SA_Sped_Sx1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.0
141.8
141.6
141.4
141.2
141.0
140.8
4
3
2
1
0
-1
2400
0100
0200
0300
0400
30Jan2008
Time

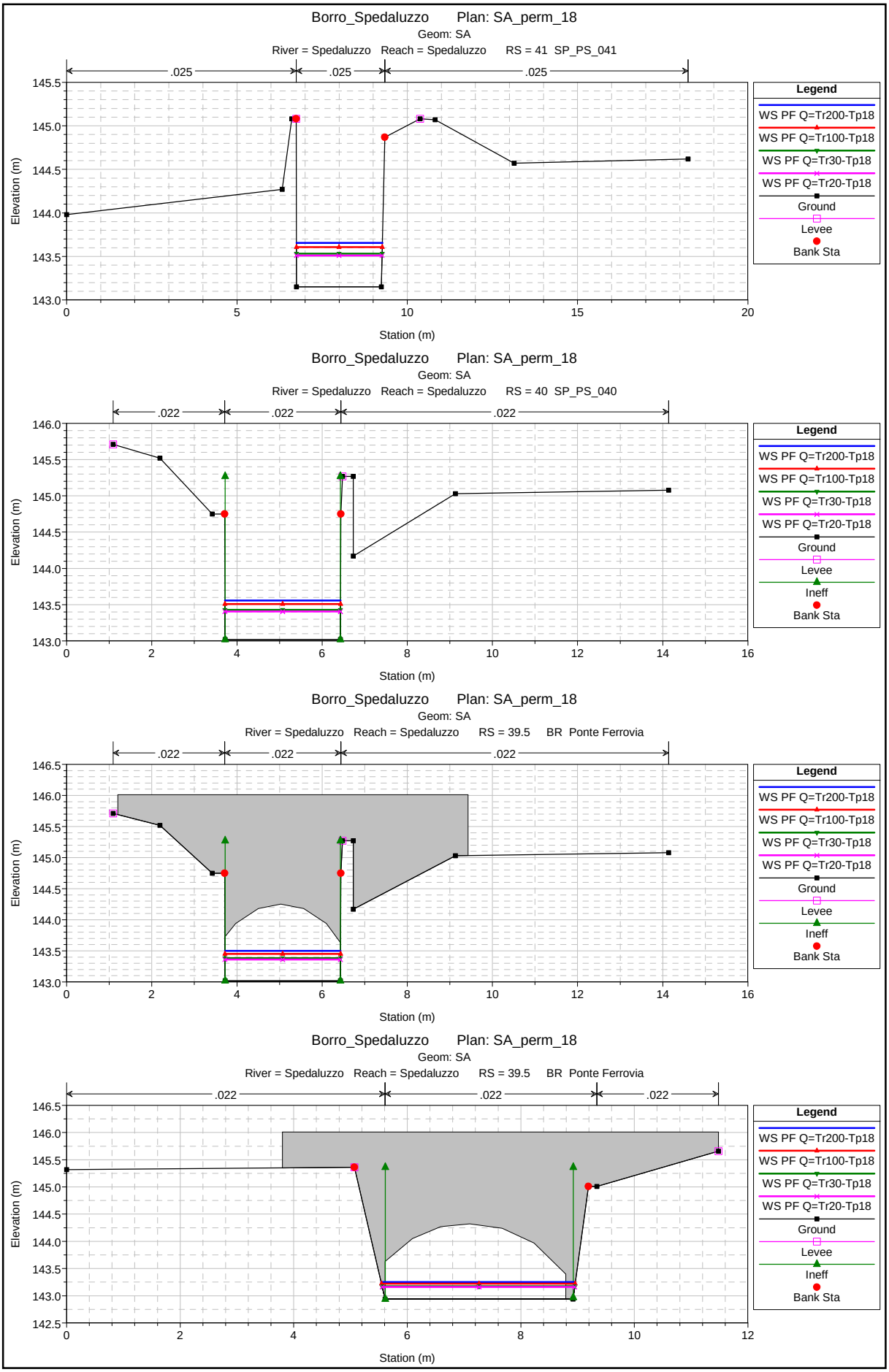

Plan: SA_200_cr Storage Area: Spedaluzzo_StSn
Legend
Stage
Net Inflow
Stage (m)
138.210
138.208
138.206
138.204
138.202
138.200
138.198
Flow (m3/s)
0.10
0.08
0.06
0.04
0.02
0.00
2400
0100
0200
0300
0400
30Jan2008
Time


Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
Spedaluzzo Spedaluzzo
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
148
146
144
142
140
138
136
0
200
400
600
800
1000
1200
1.33333*
1.66666*
02
2.5*
03
3.66666*
4.25*
4.75*
06
6.5*
07
08
9.5*
10.3333*
11
13
14
14.5
16.5*
17
18
19
22
23
24
24.5*
25
27.5
29.5*
30
31
31.6666*
32.5*
34
35
35.9*
38
39
41
42
43.5
46
47.5*
49
51


Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 51 SP_PS_051
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Ineff
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 50 SP_PS_050
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 49 SP_PS_049
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 48 SP_PS_048
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 47 SP_PS_047
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 46 SP_PS_046
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 45 SP_PS_045
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 44 SP_PS_044
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta

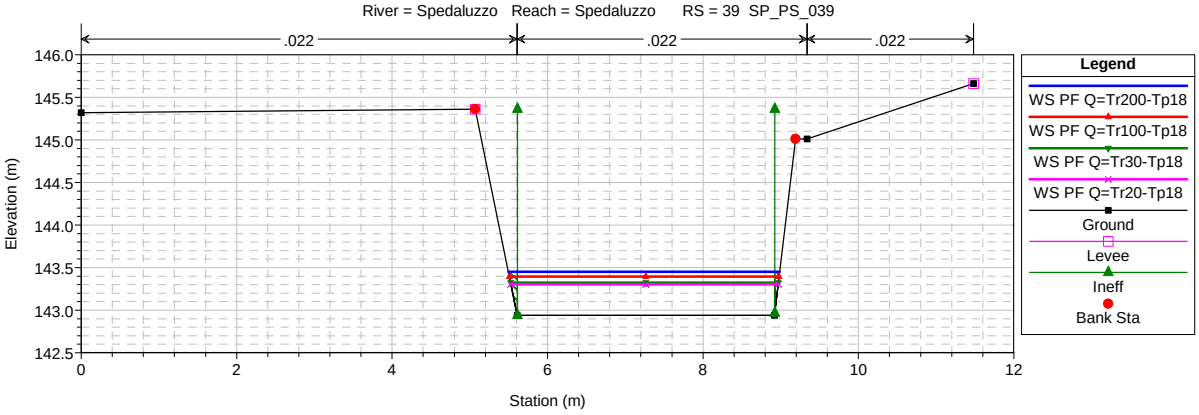

Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 43.5 BR Ponte raccordo S.S.408
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 43.5 BR Ponte raccordo S.S.408
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 43 SP_PS_043
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 42 SP_PS_042
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 41 SP_PS_041
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 40 SP_PS_040
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Ineff
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 39.5 BR Ponte Ferrovia
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Ineff
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 39.5 BR Ponte Ferrovia
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Ineff
Bank Sta

Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

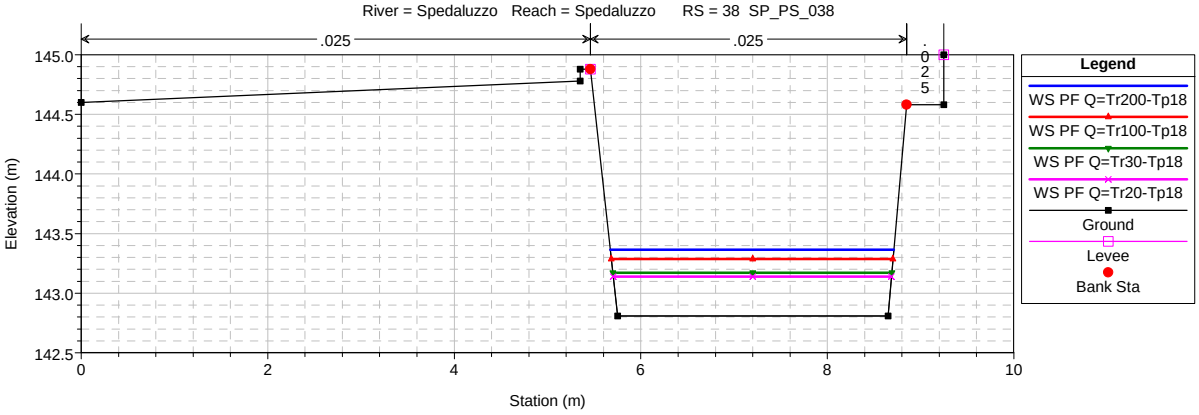
River = Spedaluzzo Reach = Spedaluzzo RS = 39 SP_PS_039



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

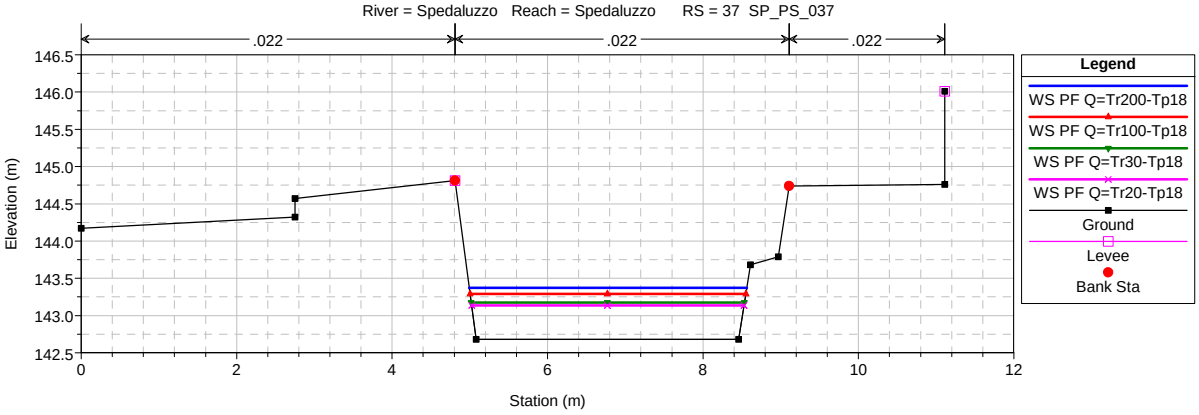
River = Spedaluzzo Reach = Spedaluzzo RS = 38 SP_PS_038



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

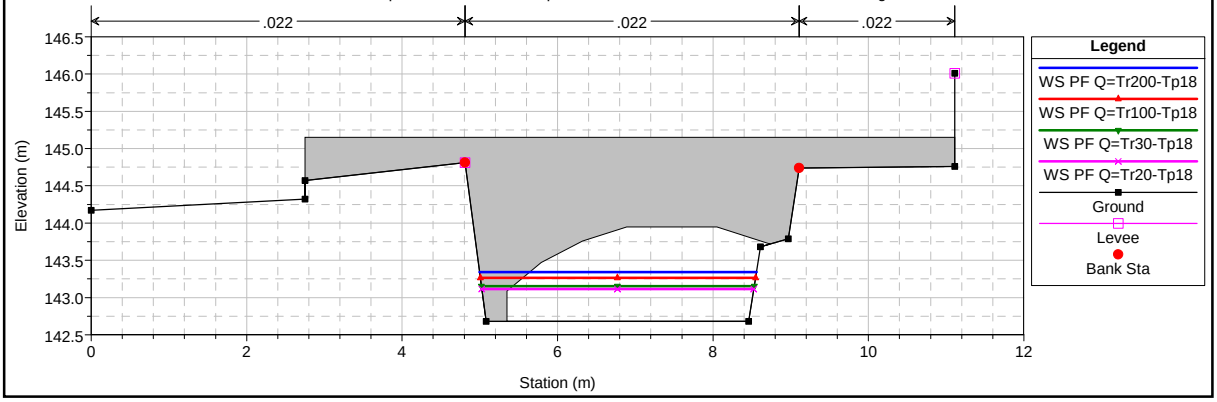
River = Spedaluzzo Reach = Spedaluzzo RS = 37 SP_PS_037

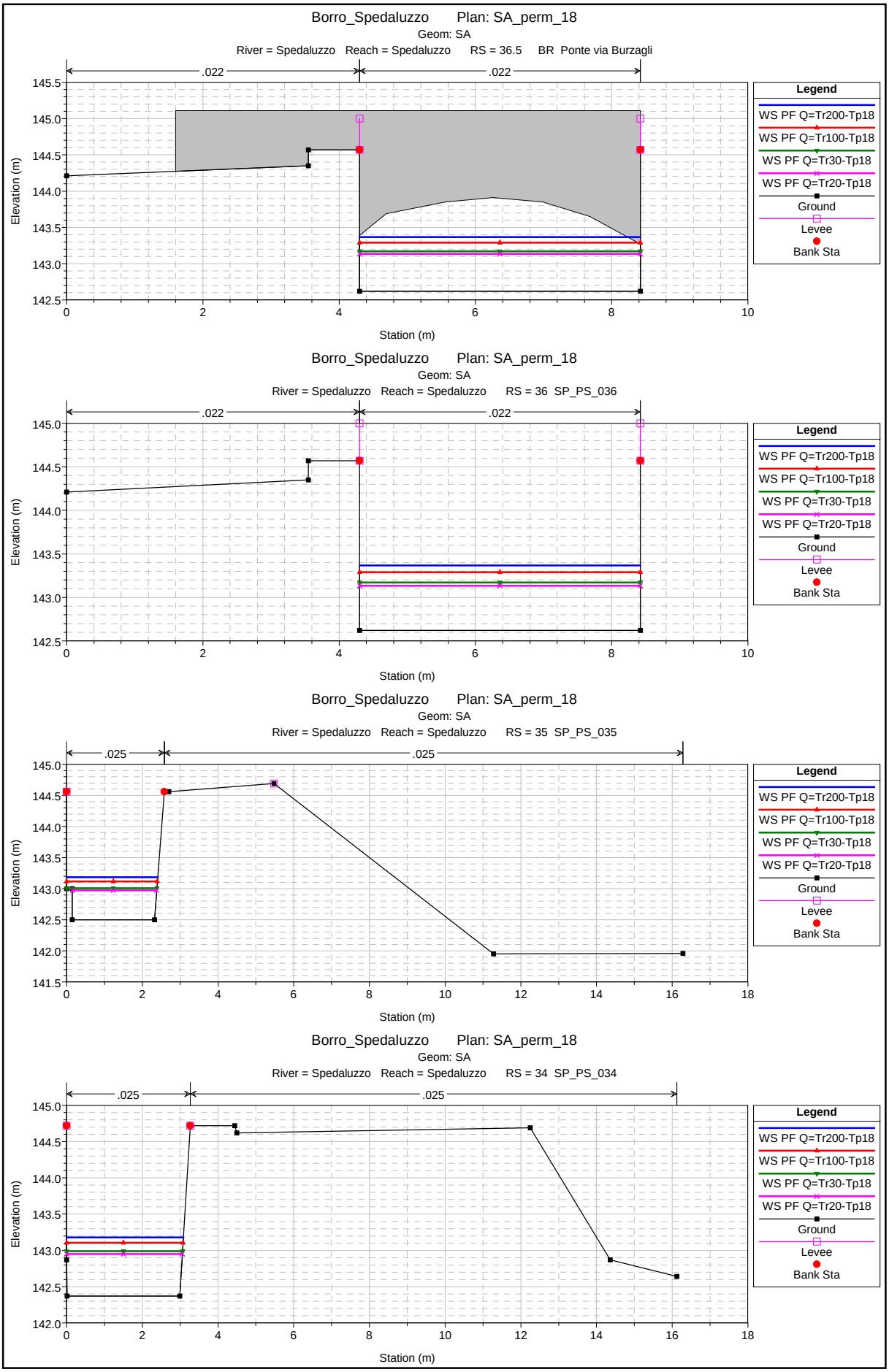


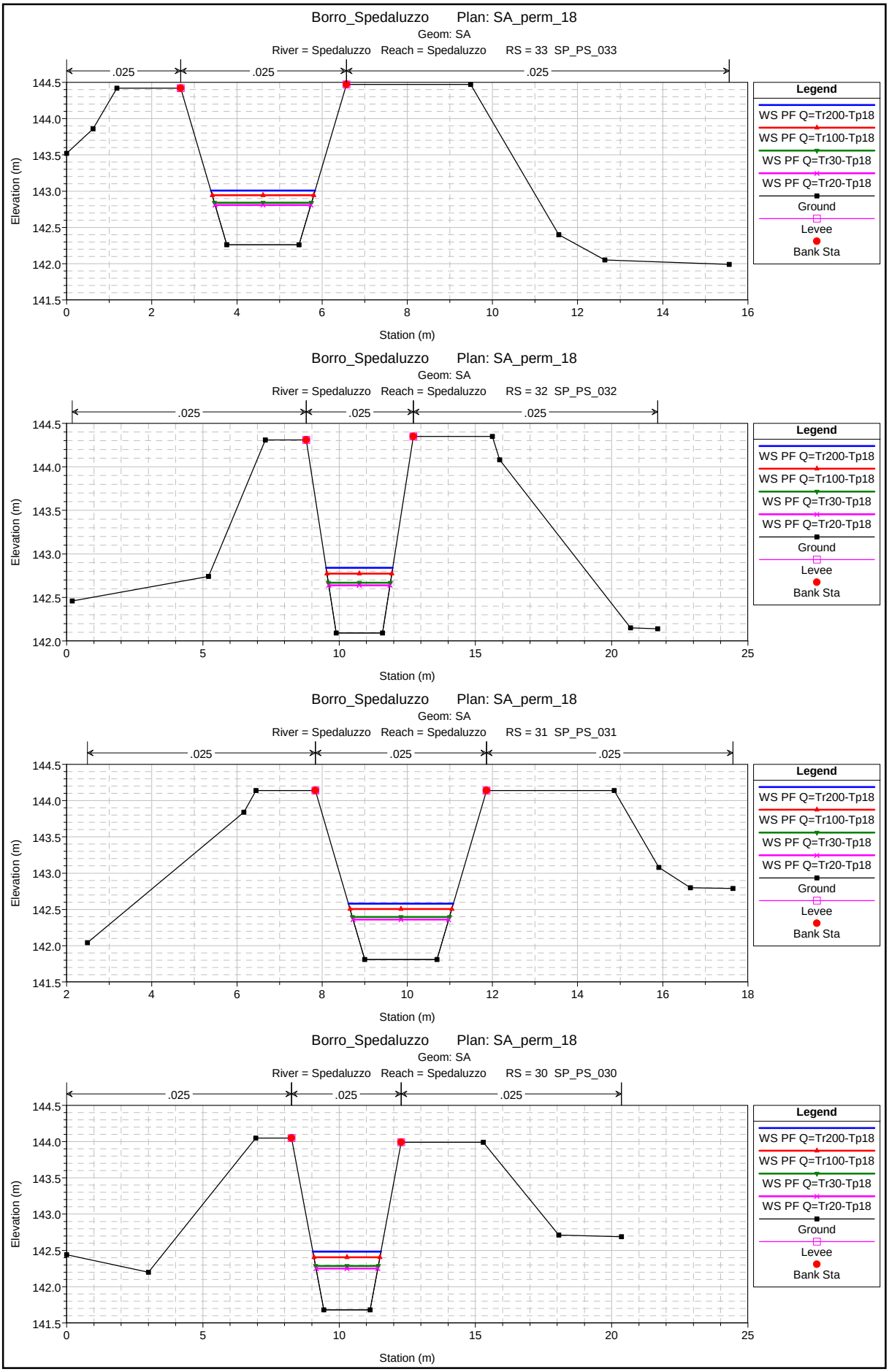
Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

River = Spedaluzzo Reach = Spedaluzzo RS = 36.5 BR Ponte via Burzagli



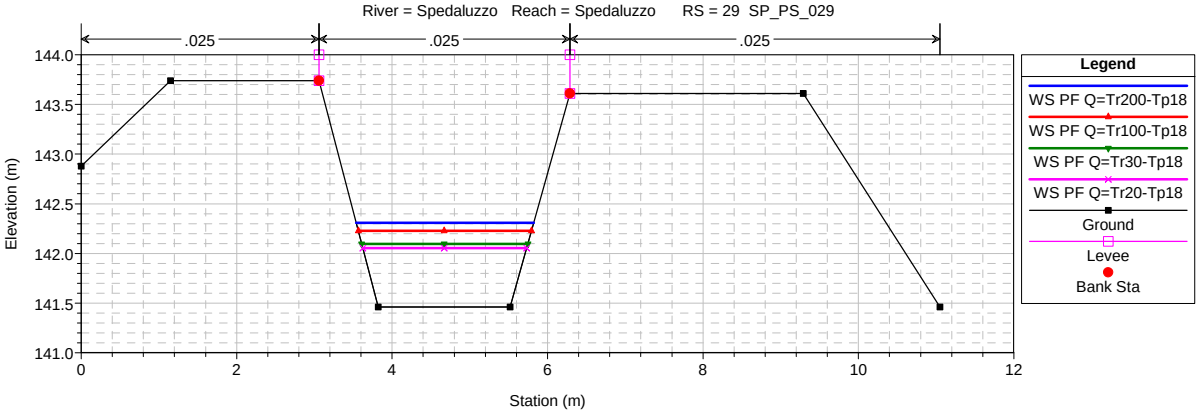

Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 36.5 BR Ponte via Burzagli
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 36 SP_PS_036
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 35 SP_PS_035
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 34 SP_PS_034
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 33 SP_PS_033
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 32 SP_PS_032
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 31 SP_PS_031
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 30 SP_PS_030
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta

Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

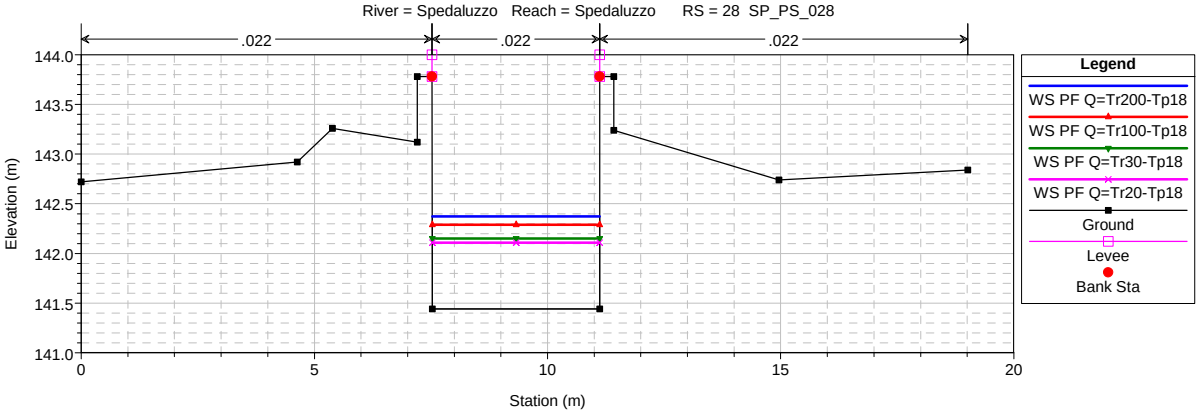
River = Spedaluzzo Reach = Spedaluzzo RS = 29 SP_PS_029



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

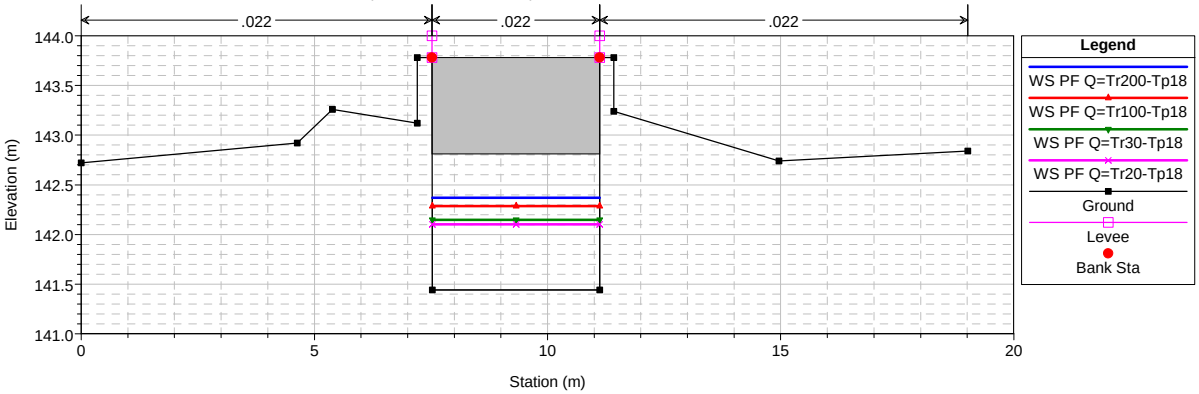
River = Spedaluzzo Reach = Spedaluzzo RS = 28 SP_PS_028



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

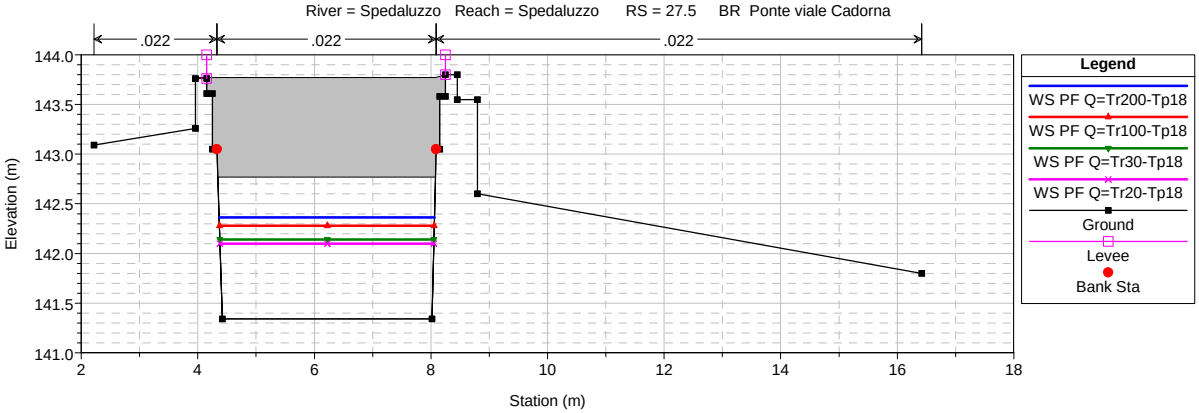
River = Spedaluzzo Reach = Spedaluzzo RS = 27.5 BR Ponte viale Cadorna

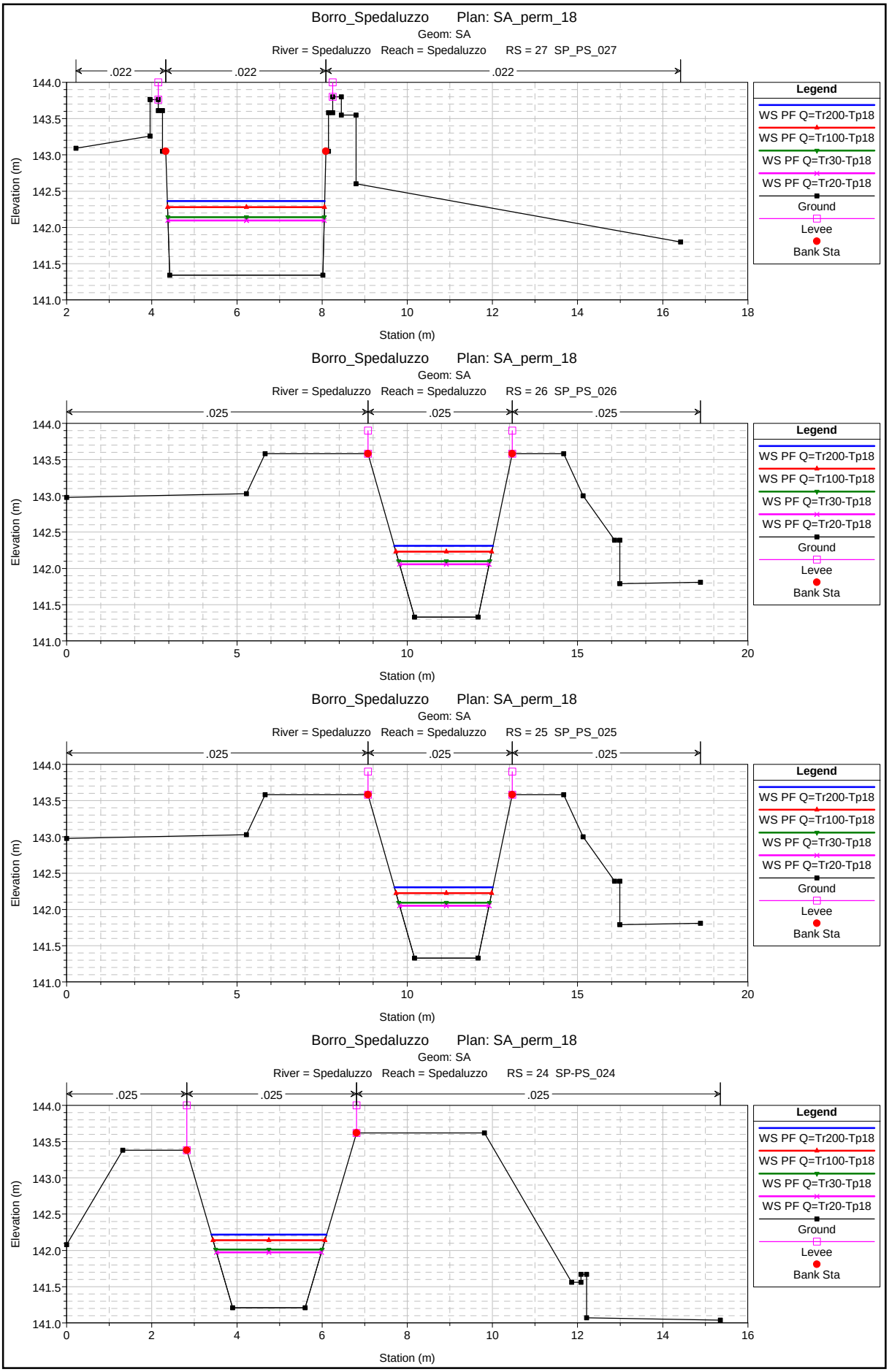


Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

River = Spedaluzzo Reach = Spedaluzzo RS = 27.5 BR Ponte viale Cadorna

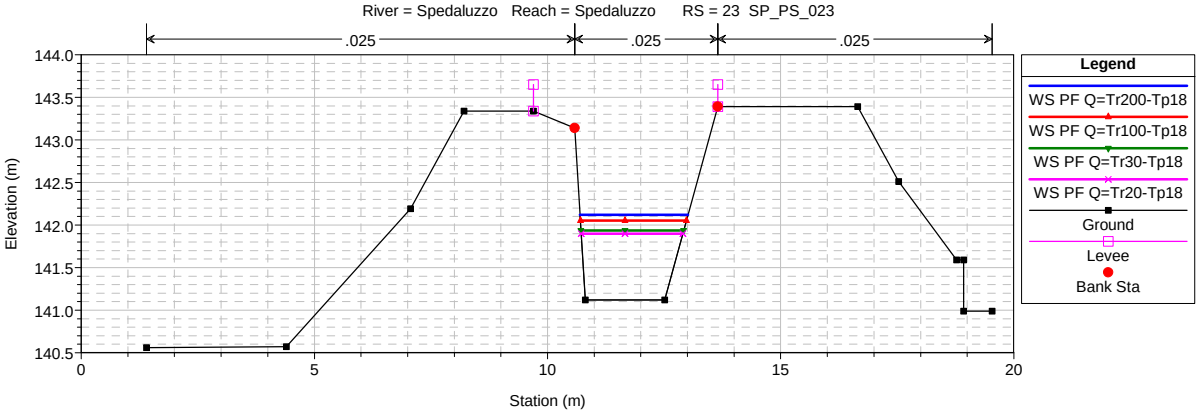



Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 27 SP_PS_027
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 26 SP_PS_026
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 25 SP_PS_025
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 24 SP-PS_024
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta

Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

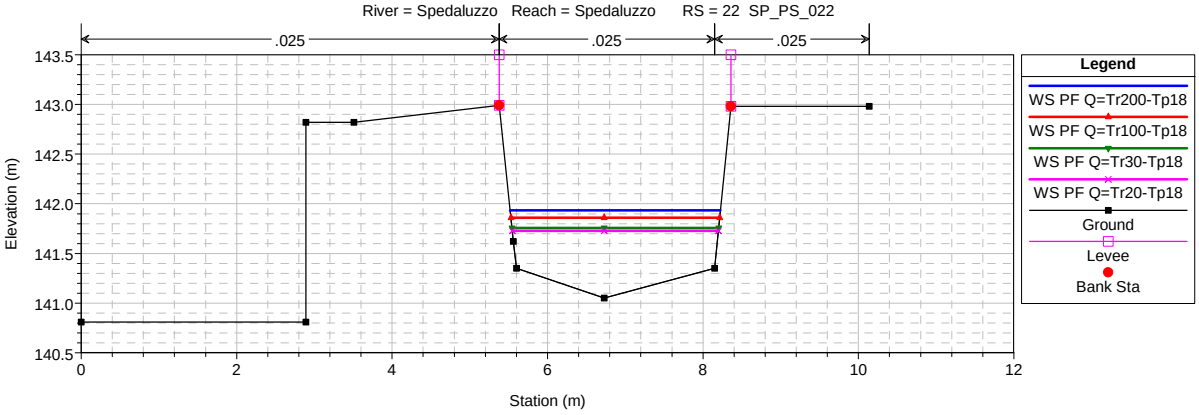
River = Spedaluzzo Reach = Spedaluzzo RS = 23 SP_PS_023



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

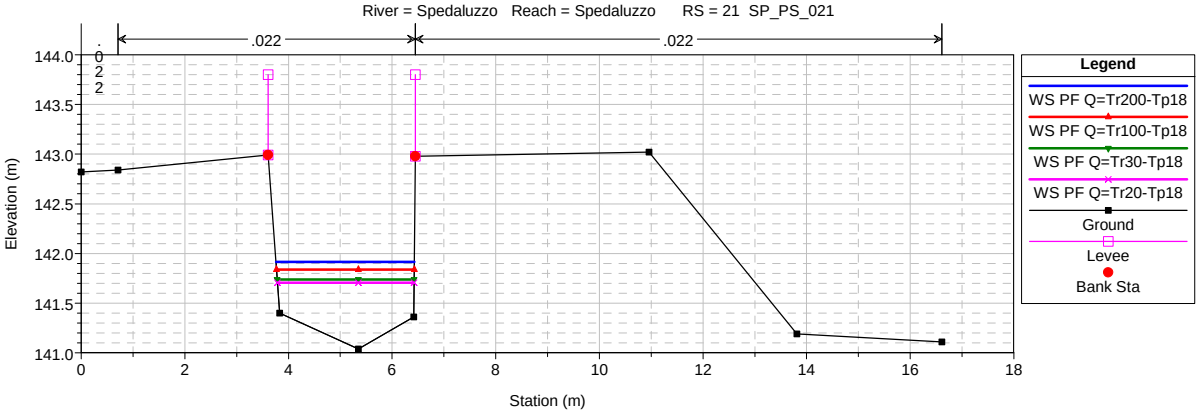
River = Spedaluzzo Reach = Spedaluzzo RS = 22 SP_PS_022



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

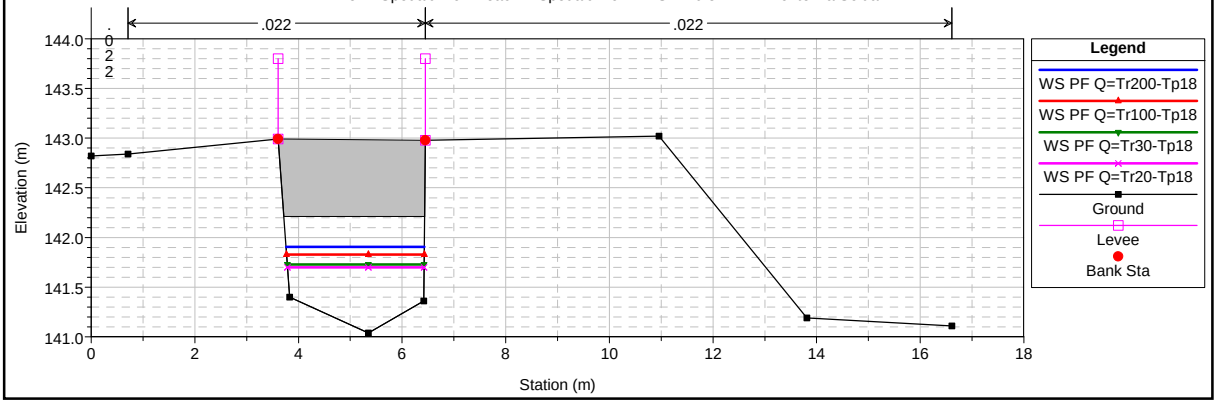
River = Spedaluzzo Reach = Spedaluzzo RS = 21 SP_PS_021



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

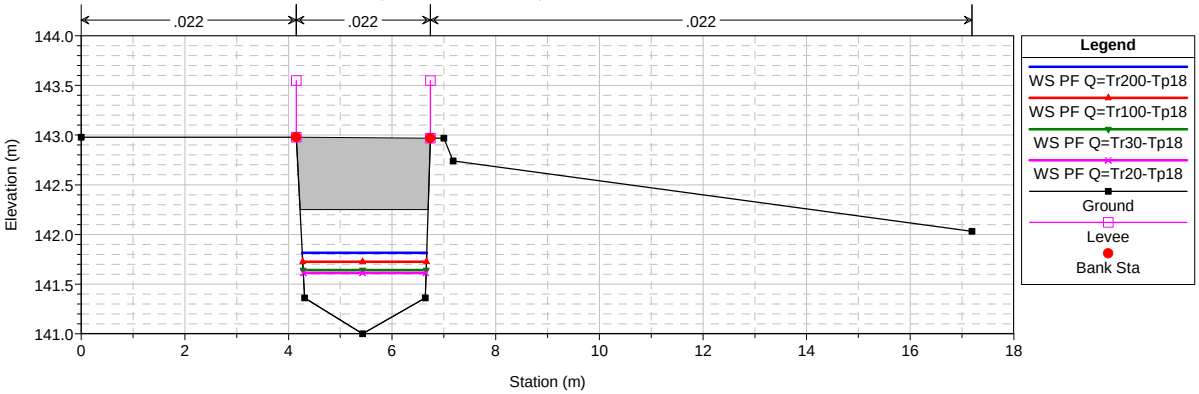
River = Spedaluzzo Reach = Spedaluzzo RS = 20.5 BR Ponte via Soldani



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

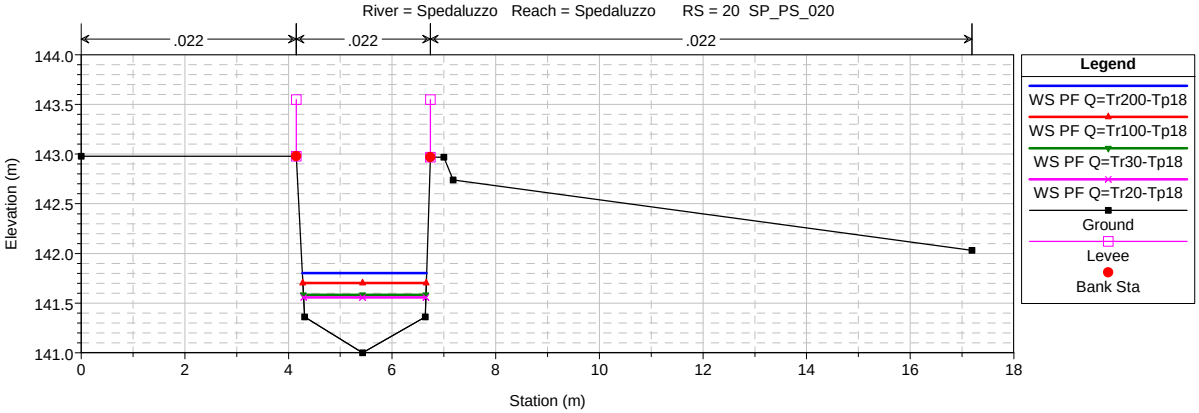
River = Spedaluzzo Reach = Spedaluzzo RS = 20.5 BR Ponte via Soldani



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

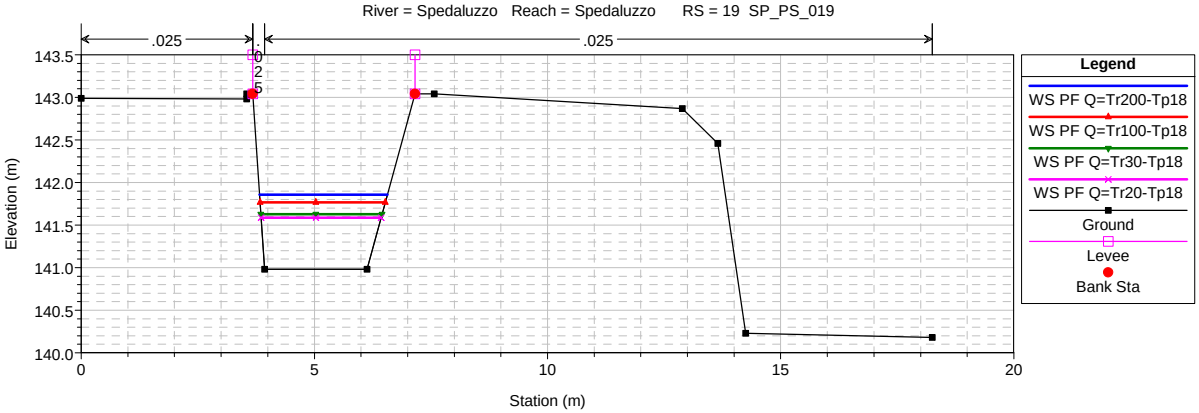
River = Spedaluzzo Reach = Spedaluzzo RS = 20 SP_PS_020



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

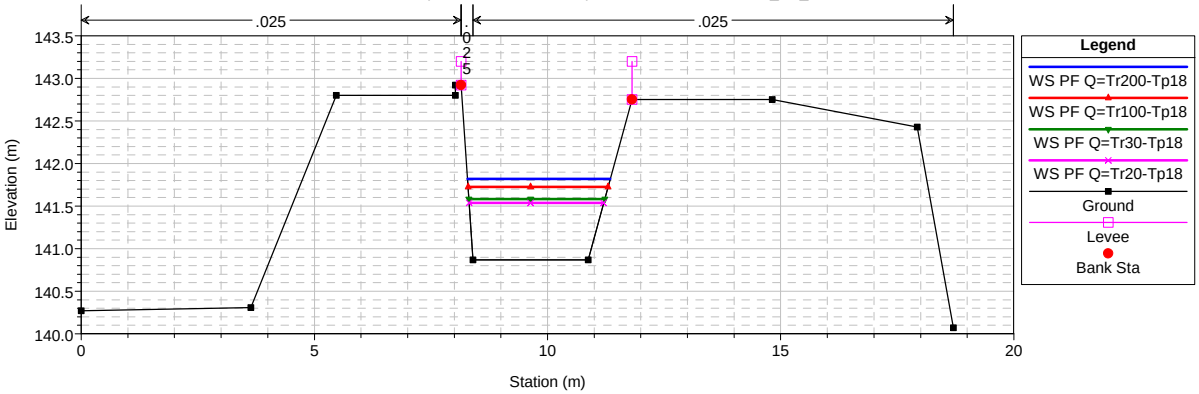
River = Spedaluzzo Reach = Spedaluzzo RS = 19 SP_PS_019

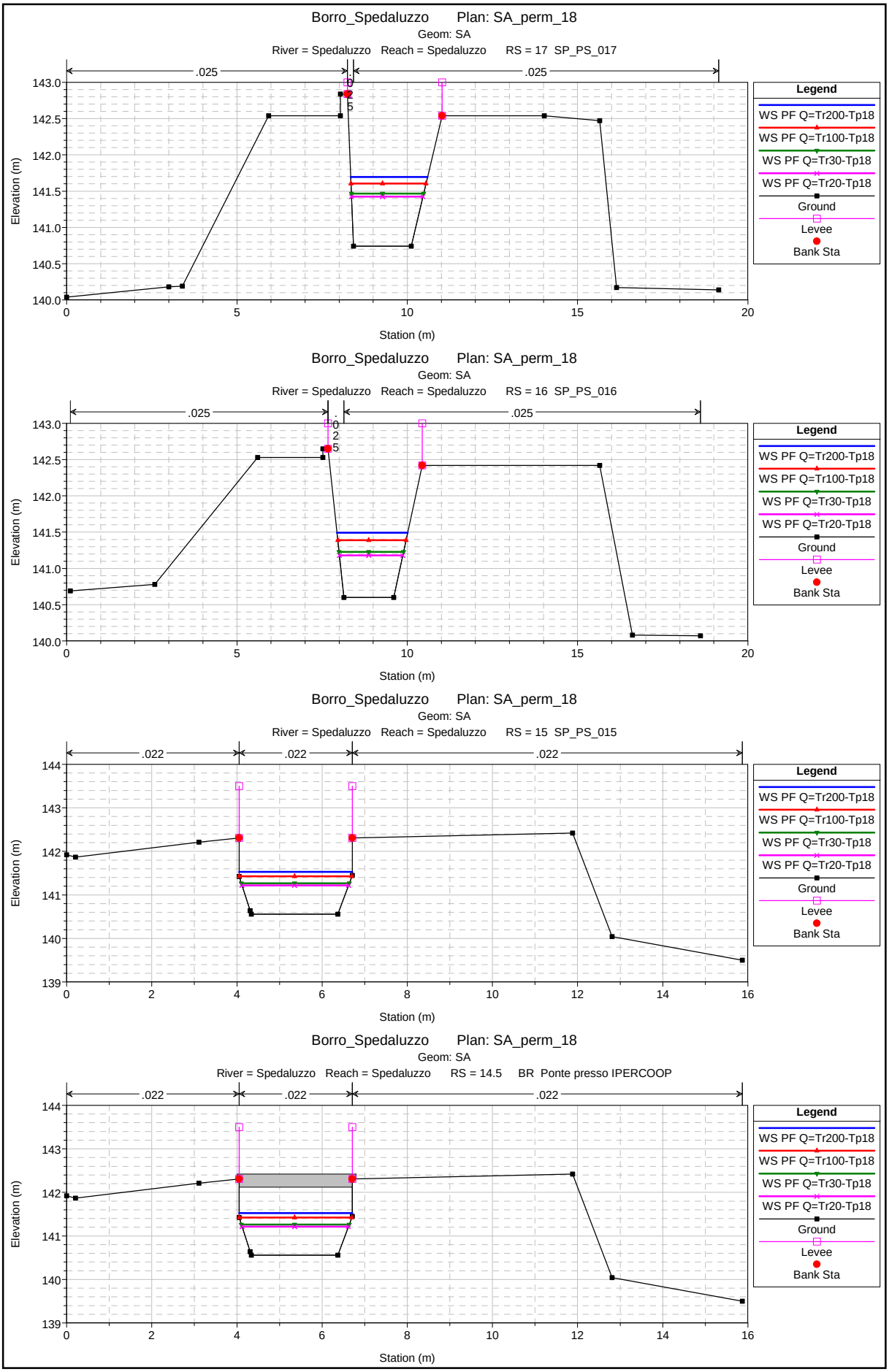


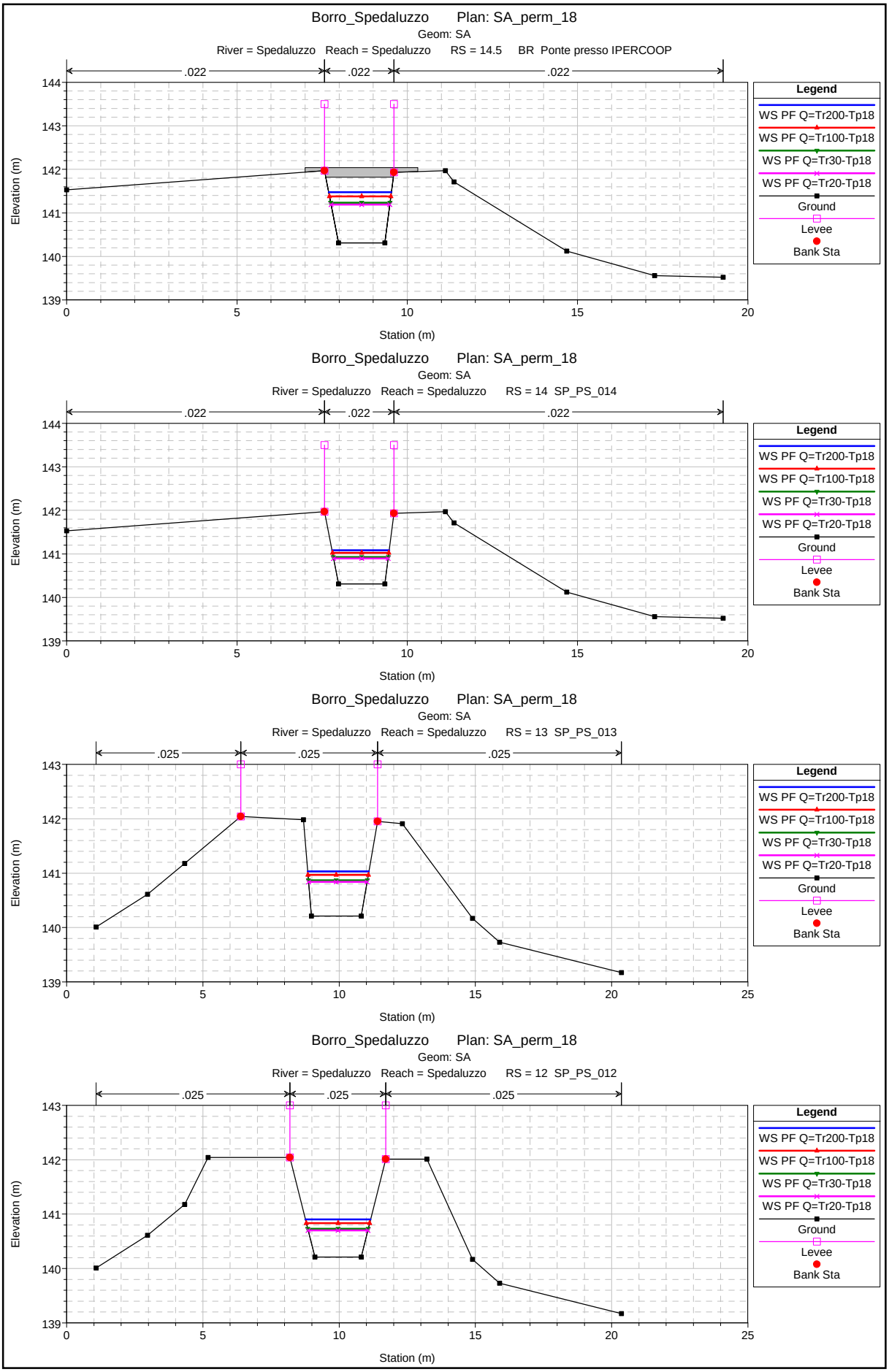
Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

River = Spedaluzzo Reach = Spedaluzzo RS = 18 SP_PS_018



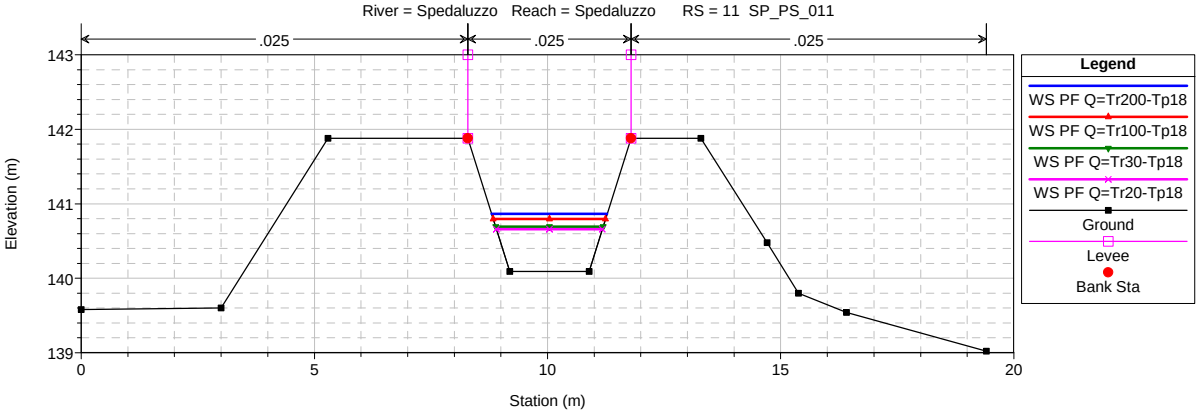

Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 17 SP_PS_017
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 16 SP_PS_016
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 15 SP_PS_015
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 14.5 BR Ponte presso IPERCOOP
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 14.5 BR Ponte presso IPERCOOP
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 14 SP_PS_014
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 13 SP_PS_013
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 12 SP_PS_012
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta

Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

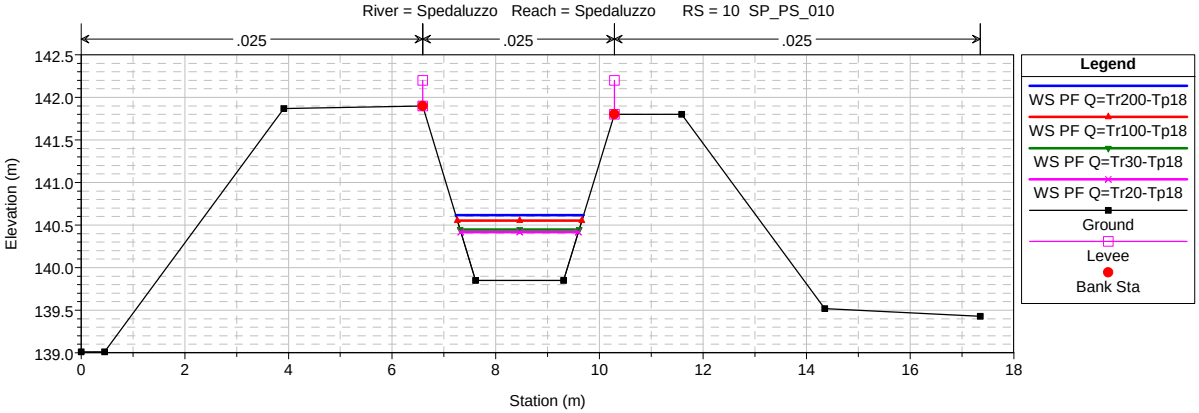
River = Spedaluzzo Reach = Spedaluzzo RS = 11 SP_PS_011



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

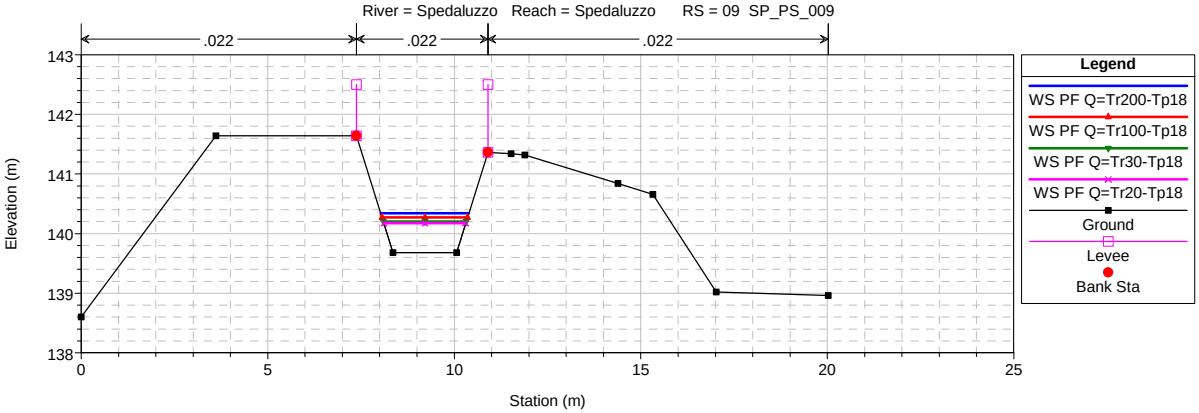
River = Spedaluzzo Reach = Spedaluzzo RS = 10 SP_PS_010



Borro_Spedaluzzo Plan: SA_perm_18

Geom: SA

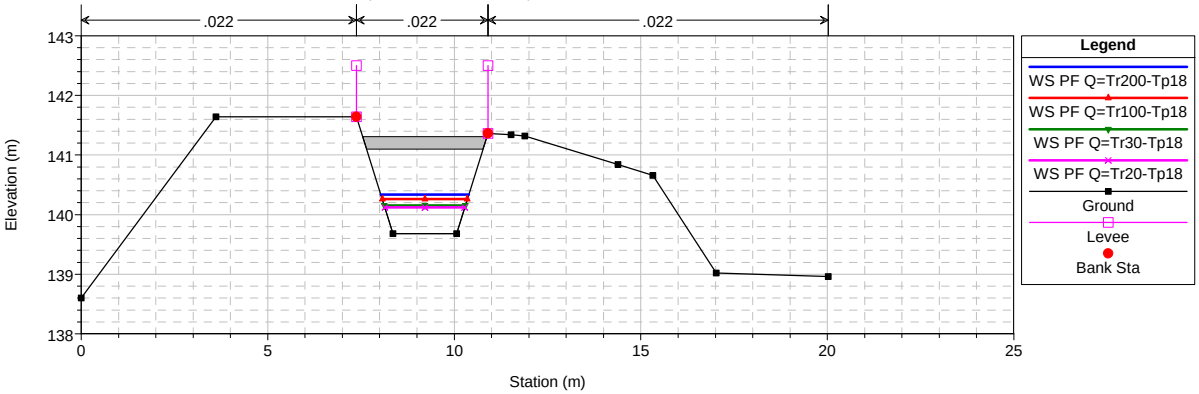
River = Spedaluzzo Reach = Spedaluzzo RS = 09 SP_PS_009

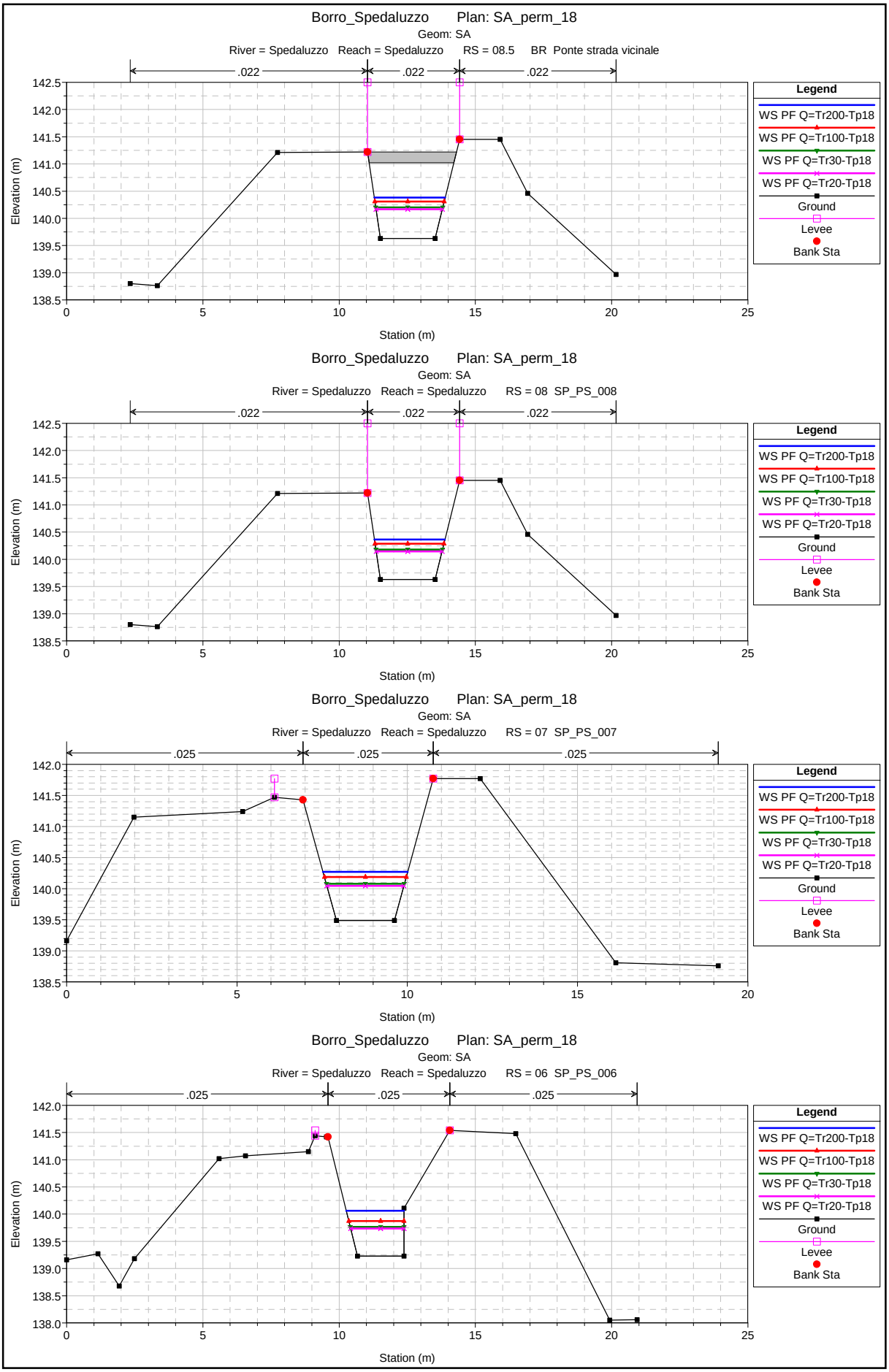


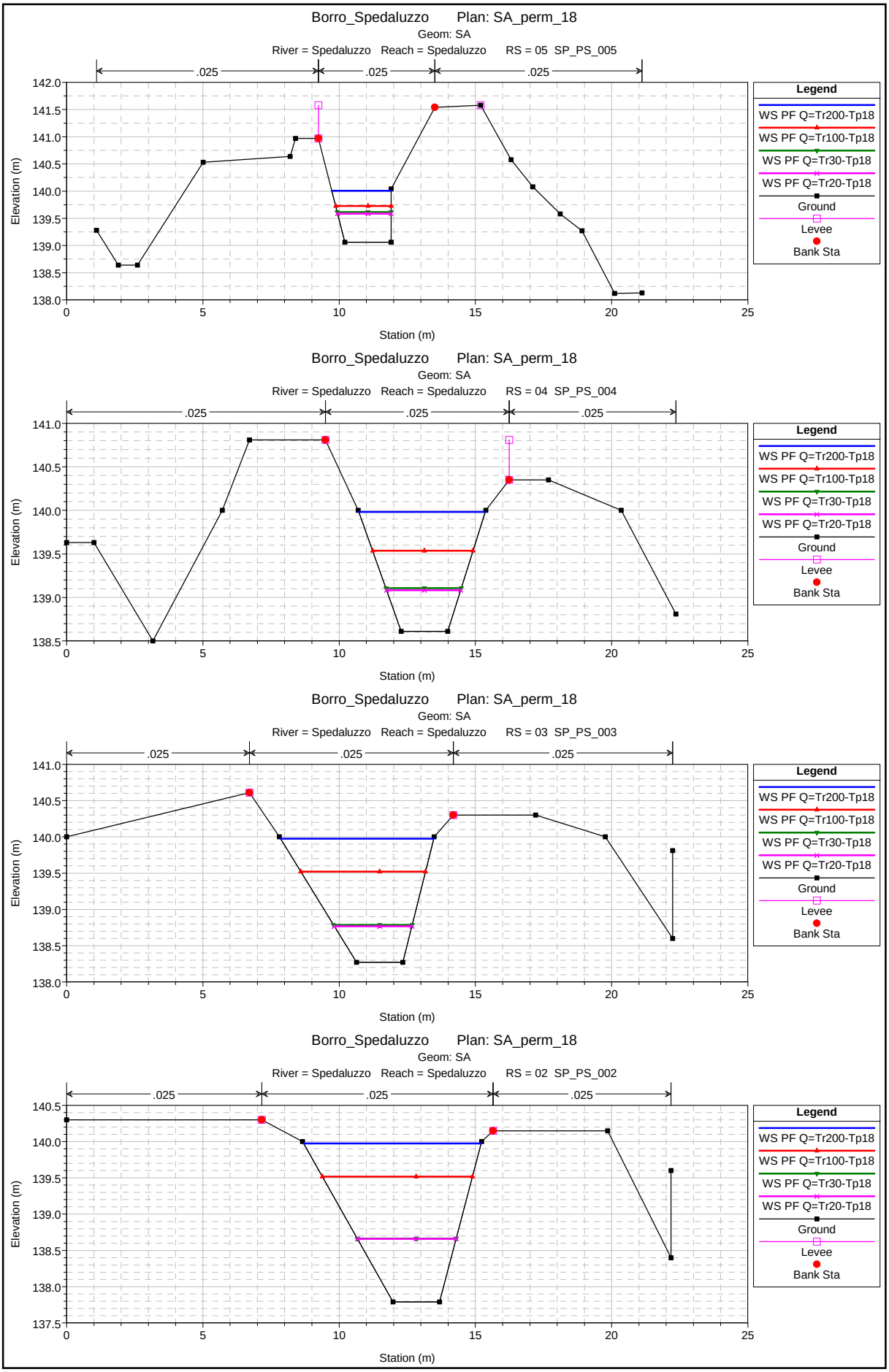
Borro_Spedaluzzo Plan: SA_perm_18

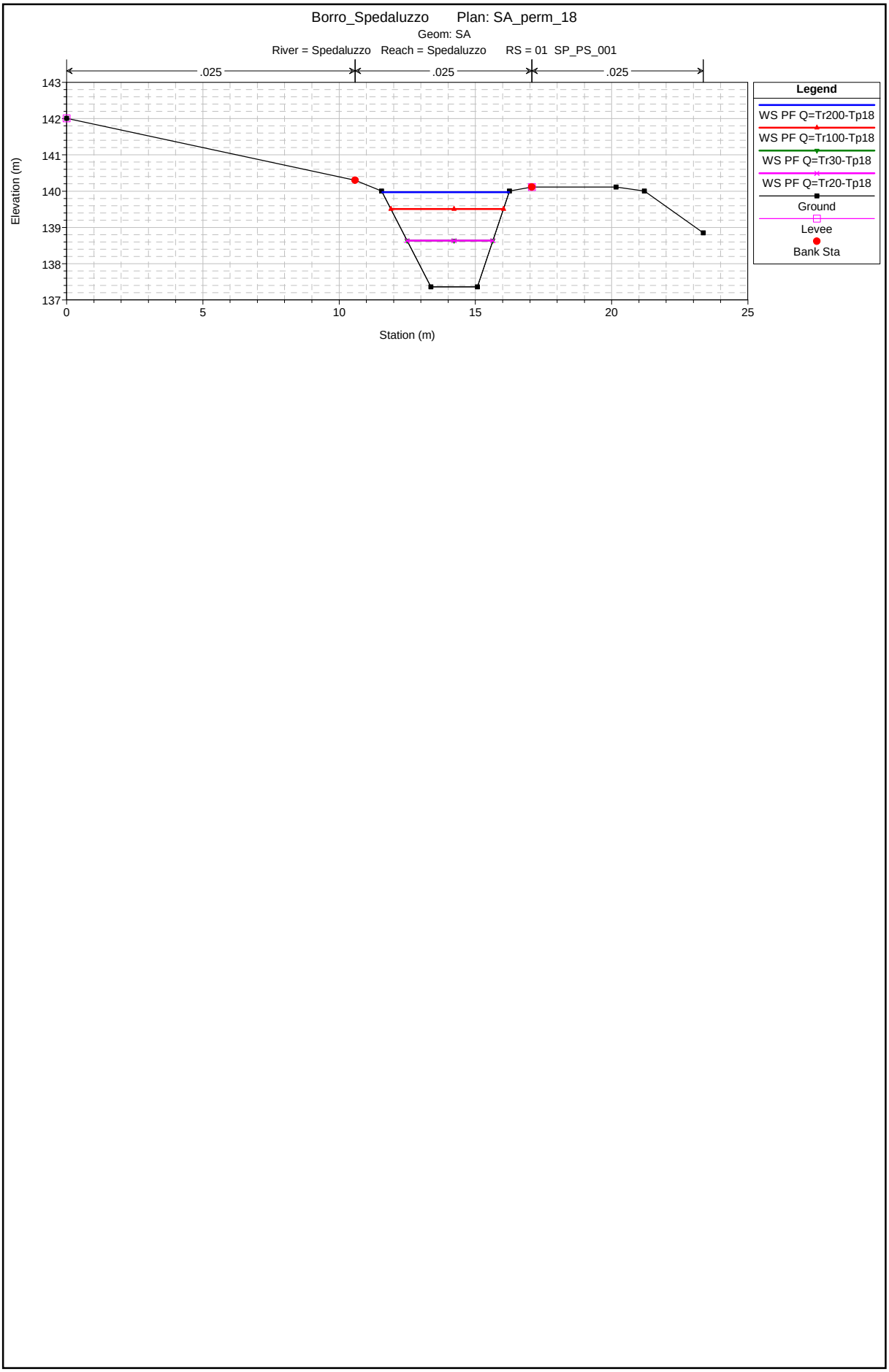
Geom: SA

River = Spedaluzzo Reach = Spedaluzzo RS = 08.5 BR Ponte strada vicinale




Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 08.5 BR Ponte strada vicinale
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 08 SP_PS_008
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 07 SP_PS_007
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 06 SP_PS_006
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 05 SP_PS_005
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 04 SP_PS_004
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 03 SP_PS_003
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta
Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 02 SP_PS_002
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta


Borro_Spedaluzzo Plan: SA_perm_18
Geom: SA
River = Spedaluzzo Reach = Spedaluzzo RS = 01 SP_PS_001
.025
.025
.025
Elevation (m)
143
142
141
140
139
138
137
0
5
10
15
20
25
Station (m)
Legend
WS PF Q=Tr200-Tp18
WS PF Q=Tr100-Tp18
WS PF Q=Tr30-Tp18
WS PF Q=Tr20-Tp18
Ground
Levee
Bank Sta

HEC-RAS Plan: SA_perm_18 River: Spedaluzzo Reach: Spedaluzzo

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	51	PF Q=Tr200-Tp18	2.80	144.48	144.79	144.97	145.41	0.036016	3.48	0.80	2.66	1.99
Spedaluzzo	51	PF Q=Tr100-Tp18	2.41	144.48	144.76	144.93	145.31	0.036014	3.28	0.74	2.65	1.96
Spedaluzzo	51	PF Q=Tr30-Tp18	1.85	144.48	144.72	144.85	145.17	0.036014	2.95	0.63	2.64	1.91
Spedaluzzo	51	PF Q=Tr20-Tp18	1.69	144.48	144.71	144.83	145.12	0.036012	2.84	0.59	2.64	1.90
Spedaluzzo	50	PF Q=Tr200-Tp18	2.80	144.38	144.94	144.91	145.17	0.010148	2.13	1.32	2.40	0.92
Spedaluzzo	50	PF Q=Tr100-Tp18	2.41	144.38	144.89	144.86	145.10	0.010132	2.03	1.19	2.39	0.92
Spedaluzzo	50	PF Q=Tr30-Tp18	1.85	144.38	144.80	144.78	144.98	0.010157	1.86	0.99	2.38	0.92
Spedaluzzo	50	PF Q=Tr20-Tp18	1.69	144.38	144.78	144.76	144.95	0.010174	1.81	0.93	2.37	0.92
Spedaluzzo	49	PF Q=Tr200-Tp18	2.80	144.28	144.88	144.79	145.06	0.007097	1.86	1.50	2.56	0.78
Spedaluzzo	49	PF Q=Tr100-Tp18	2.41	144.28	144.83	144.74	144.99	0.006992	1.77	1.36	2.55	0.77
Spedaluzzo	49	PF Q=Tr30-Tp18	1.85	144.28	144.74	144.67	144.87	0.006851	1.61	1.15	2.53	0.77
Spedaluzzo	49	PF Q=Tr20-Tp18	1.69	144.28	144.72	144.64	144.84	0.006808	1.56	1.08	2.52	0.76
Spedaluzzo	48	PF Q=Tr200-Tp18	2.80	144.20	144.71	144.71	144.96	0.011825	2.22	1.26	2.52	1.00
Spedaluzzo	48	PF Q=Tr100-Tp18	2.41	144.20	144.66	144.66	144.89	0.011766	2.11	1.14	2.51	1.00
Spedaluzzo	48	PF Q=Tr30-Tp18	1.85	144.20	144.58	144.58	144.78	0.011978	1.94	0.95	2.50	1.00
Spedaluzzo	48	PF Q=Tr20-Tp18	1.69	144.20	144.56	144.56	144.74	0.012040	1.89	0.90	2.50	1.00
Spedaluzzo	47	PF Q=Tr200-Tp18	2.80	143.76	144.38	144.26	144.54	0.006457	1.79	1.56	2.54	0.73
Spedaluzzo	47	PF Q=Tr100-Tp18	2.41	143.76	144.32	144.22	144.47	0.006354	1.70	1.42	2.54	0.73
Spedaluzzo	47	PF Q=Tr30-Tp18	1.85	143.76	144.23	144.14	144.36	0.006193	1.55	1.19	2.53	0.72
Spedaluzzo	47	PF Q=Tr20-Tp18	1.69	143.76	144.21	144.12	144.32	0.006132	1.50	1.13	2.53	0.72
Spedaluzzo	46	PF Q=Tr200-Tp18	2.80	143.71	144.30	144.22	144.49	0.007919	1.94	1.44	2.50	0.81
Spedaluzzo	46	PF Q=Tr100-Tp18	2.41	143.71	144.25	144.18	144.42	0.007690	1.83	1.32	2.49	0.80
Spedaluzzo	46	PF Q=Tr30-Tp18	1.85	143.71	144.16	144.10	144.31	0.007453	1.66	1.11	2.48	0.79
Spedaluzzo	46	PF Q=Tr20-Tp18	1.69	143.71	144.14	144.08	144.27	0.007371	1.61	1.05	2.48	0.79
Spedaluzzo	45	PF Q=Tr200-Tp18	2.80	143.65	144.16	144.16	144.41	0.011862	2.21	1.27	2.52	1.00
Spedaluzzo	45	PF Q=Tr100-Tp18	2.41	143.65	144.11	144.11	144.33	0.011948	2.11	1.14	2.51	1.00
Spedaluzzo	45	PF Q=Tr30-Tp18	1.85	143.65	144.03	144.03	144.22	0.012198	1.95	0.95	2.51	1.01
Spedaluzzo	45	PF Q=Tr20-Tp18	1.69	143.65	144.01	144.01	144.19	0.012239	1.89	0.89	2.51	1.01
Spedaluzzo	44	PF Q=Tr200-Tp18	2.80	143.55	144.16	143.83	144.19	0.000720	0.77	3.63	6.00	0.32

HEC-RAS Plan: SA_perm_18 River: Spedaluzzo Reach: Spedaluzzo (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	44	PF Q=Tr100-Tp18	2.41	143.55	144.08	143.80	144.11	0.000803	0.76	3.18	6.00	0.33
Spedaluzzo	44	PF Q=Tr30-Tp18	1.85	143.55	143.97	143.76	144.00	0.001010	0.74	2.50	6.00	0.37
Spedaluzzo	44	PF Q=Tr20-Tp18	1.69	143.55	143.93	143.75	143.96	0.001107	0.74	2.30	5.99	0.38
Spedaluzzo	43.5		Bridge									
Spedaluzzo	43	PF Q=Tr200-Tp18	2.80	143.45	144.15	143.73	144.17	0.000462	0.67	4.18	6.00	0.26
Spedaluzzo	43	PF Q=Tr100-Tp18	2.41	143.45	144.07	143.70	144.09	0.000485	0.64	3.74	6.00	0.26
Spedaluzzo	43	PF Q=Tr30-Tp18	1.85	143.45	143.96	143.66	143.98	0.000538	0.61	3.05	6.00	0.27
Spedaluzzo	43	PF Q=Tr20-Tp18	1.69	143.45	143.92	143.65	143.94	0.000561	0.59	2.85	6.00	0.28
Spedaluzzo	42	PF Q=Tr200-Tp18	2.80	143.34	143.93	143.86	144.14	0.008454	1.99	1.41	2.39	0.83
Spedaluzzo	42	PF Q=Tr100-Tp18	2.41	143.34	143.88	143.81	144.06	0.008325	1.89	1.28	2.39	0.82
Spedaluzzo	42	PF Q=Tr30-Tp18	1.85	143.34	143.79	143.74	143.95	0.008183	1.73	1.07	2.38	0.82
Spedaluzzo	42	PF Q=Tr20-Tp18	1.69	143.34	143.77	143.71	143.91	0.008164	1.67	1.01	2.38	0.82
Spedaluzzo	41	PF Q=Tr200-Tp18	2.80	143.15	143.66	143.66	143.90	0.011832	2.21	1.27	2.52	0.99
Spedaluzzo	41	PF Q=Tr100-Tp18	2.41	143.15	143.61	143.61	143.83	0.011913	2.11	1.14	2.52	1.00
Spedaluzzo	41	PF Q=Tr30-Tp18	1.85	143.15	143.53	143.53	143.72	0.011966	1.93	0.96	2.51	1.00
Spedaluzzo	41	PF Q=Tr20-Tp18	1.69	143.15	143.51	143.51	143.69	0.011845	1.87	0.90	2.51	0.99
Spedaluzzo	40	PF Q=Tr200-Tp18	2.80	143.02	143.56	143.50	143.75	0.004120	1.93	1.45	2.72	0.84
Spedaluzzo	40	PF Q=Tr100-Tp18	2.41	143.02	143.51	143.45	143.68	0.004168	1.82	1.32	2.72	0.83
Spedaluzzo	40	PF Q=Tr30-Tp18	1.85	143.02	143.43	143.38	143.57	0.004499	1.68	1.10	2.71	0.84
Spedaluzzo	40	PF Q=Tr20-Tp18	1.69	143.02	143.41	143.36	143.54	0.004498	1.62	1.05	2.71	0.83
Spedaluzzo	39.5		Bridge									
Spedaluzzo	39	PF Q=Tr200-Tp18	2.80	142.94	143.45	143.36	143.59	0.003297	1.66	1.69	3.49	0.74
Spedaluzzo	39	PF Q=Tr100-Tp18	2.41	142.94	143.39	143.32	143.52	0.003622	1.61	1.50	3.47	0.76
Spedaluzzo	39	PF Q=Tr30-Tp18	1.85	142.94	143.32	143.26	143.43	0.003746	1.46	1.27	3.45	0.75
Spedaluzzo	39	PF Q=Tr20-Tp18	1.69	142.94	143.31	143.24	143.40	0.003646	1.40	1.21	3.44	0.74
Spedaluzzo	38	PF Q=Tr200-Tp18	2.80	142.81	143.36	143.26	143.51	0.005951	1.70	1.65	3.04	0.74
Spedaluzzo	38	PF Q=Tr100-Tp18	2.41	142.81	143.29	143.22	143.44	0.006984	1.71	1.41	3.02	0.80
Spedaluzzo	38	PF Q=Tr30-Tp18	1.85	142.81	143.17	143.15	143.33	0.009600	1.73	1.07	2.99	0.93

HEC-RAS Plan: SA_perm_18 River: Spedaluzzo Reach: Spedaluzzo (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	38	PF Q=Tr20-Tp18	1.69	142.81	143.14	143.13	143.29	0.010954	1.75	0.96	2.98	0.98
Spedaluzzo	37	PF Q=Tr200-Tp18	2.80	142.68	143.37	143.09	143.44	0.001637	1.16	2.41	3.57	0.45
Spedaluzzo	37	PF Q=Tr100-Tp18	2.41	142.68	143.29	143.05	143.36	0.001758	1.14	2.12	3.55	0.47
Spedaluzzo	37	PF Q=Tr30-Tp18	1.85	142.68	143.17	142.99	143.23	0.002007	1.09	1.70	3.52	0.50
Spedaluzzo	37	PF Q=Tr20-Tp18	1.69	142.68	143.14	142.97	143.20	0.002128	1.07	1.58	3.51	0.51
Spedaluzzo	36.5		Bridge									
Spedaluzzo	36	PF Q=Tr200-Tp18	2.80	142.62	143.37	142.98	143.41	0.000891	0.91	3.08	4.12	0.34
Spedaluzzo	36	PF Q=Tr100-Tp18	2.41	142.62	143.29	142.95	143.33	0.000920	0.87	2.76	4.12	0.34
Spedaluzzo	36	PF Q=Tr30-Tp18	1.85	142.62	143.17	142.89	143.20	0.000981	0.82	2.27	4.12	0.35
Spedaluzzo	36	PF Q=Tr20-Tp18	1.69	142.62	143.13	142.88	143.17	0.001015	0.80	2.11	4.12	0.36
Spedaluzzo	35.99		Lat Struct									
Spedaluzzo	35.98		Lat Struct									
Spedaluzzo	35	PF Q=Tr200-Tp18	2.80	142.50	143.19	143.06	143.35	0.006573	1.81	1.54	2.41	0.72
Spedaluzzo	35	PF Q=Tr100-Tp18	2.41	142.50	143.12	143.01	143.27	0.006800	1.75	1.38	2.40	0.74
Spedaluzzo	35	PF Q=Tr30-Tp18	1.85	142.50	143.01	142.92	143.15	0.007406	1.66	1.12	2.38	0.77
Spedaluzzo	35	PF Q=Tr20-Tp18	1.69	142.50	142.97	142.89	143.11	0.007178	1.63	1.04	2.23	0.76
Spedaluzzo	34	PF Q=Tr200-Tp18	2.80	142.37	143.18	142.82	143.24	0.001885	1.14	2.45	3.09	0.41
Spedaluzzo	34	PF Q=Tr100-Tp18	2.41	142.37	143.10	142.77	143.16	0.001851	1.08	2.22	3.08	0.41
Spedaluzzo	34	PF Q=Tr30-Tp18	1.85	142.37	142.99	142.71	143.04	0.001819	0.99	1.87	3.06	0.41
Spedaluzzo	34	PF Q=Tr20-Tp18	1.69	142.37	142.95	142.69	143.00	0.001815	0.96	1.76	3.06	0.40
Spedaluzzo	33	PF Q=Tr200-Tp18	2.80	142.26	143.01	142.87	143.17	0.005701	1.80	1.55	2.45	0.72
Spedaluzzo	33	PF Q=Tr100-Tp18	2.41	142.26	142.94	142.82	143.10	0.005715	1.73	1.39	2.38	0.72
Spedaluzzo	33	PF Q=Tr30-Tp18	1.85	142.26	142.84	142.73	142.97	0.005727	1.60	1.15	2.28	0.72
Spedaluzzo	33	PF Q=Tr20-Tp18	1.69	142.26	142.81	142.70	142.93	0.005728	1.56	1.08	2.25	0.72
Spedaluzzo	32	PF Q=Tr200-Tp18	2.80	142.09	142.84	142.70	143.01	0.005667	1.80	1.56	2.45	0.72
Spedaluzzo	32	PF Q=Tr100-Tp18	2.41	142.09	142.77	142.65	142.93	0.005706	1.73	1.40	2.38	0.72
Spedaluzzo	32	PF Q=Tr30-Tp18	1.85	142.09	142.67	142.56	142.80	0.005747	1.60	1.15	2.28	0.72

HEC-RAS Plan: SA_perm_18 River: Spedaluzzo Reach: Spedaluzzo (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	32	PF Q=Tr20-Tp18	1.69	142.09	142.64	142.54	142.76	0.005757	1.56	1.08	2.25	0.72
Spedaluzzo	31	PF Q=Tr200-Tp18	2.80	141.81	142.58	142.42	142.73	0.005240	1.75	1.60	2.47	0.69
Spedaluzzo	31	PF Q=Tr100-Tp18	2.41	141.81	142.51	142.37	142.65	0.005381	1.69	1.42	2.39	0.70
Spedaluzzo	31	PF Q=Tr30-Tp18	1.85	141.81	142.39	142.28	142.52	0.005585	1.59	1.16	2.28	0.71
Spedaluzzo	31	PF Q=Tr20-Tp18	1.69	141.81	142.36	142.25	142.48	0.005649	1.55	1.09	2.25	0.71
Spedaluzzo	30	PF Q=Tr200-Tp18	2.80	141.68	142.48	142.29	142.62	0.004548	1.66	1.69	2.50	0.65
Spedaluzzo	30	PF Q=Tr100-Tp18	2.41	141.68	142.41	142.24	142.54	0.004699	1.61	1.50	2.42	0.65
Spedaluzzo	30	PF Q=Tr30-Tp18	1.85	141.68	142.29	142.15	142.40	0.004987	1.53	1.21	2.30	0.67
Spedaluzzo	30	PF Q=Tr20-Tp18	1.69	141.68	142.25	142.12	142.36	0.005075	1.50	1.13	2.27	0.68
Spedaluzzo	29.4		Lat Struct									
Spedaluzzo	29.3		Lat Struct									
Spedaluzzo	29	PF Q=Tr200-Tp18	2.80	141.46	142.31	142.08	142.45	0.004533	1.66	1.69	2.29	0.62
Spedaluzzo	29	PF Q=Tr100-Tp18	2.41	141.46	142.23	142.03	142.36	0.004592	1.60	1.51	2.23	0.62
Spedaluzzo	29	PF Q=Tr30-Tp18	1.85	141.46	142.09	141.94	142.21	0.004897	1.52	1.22	2.14	0.64
Spedaluzzo	29	PF Q=Tr20-Tp18	1.69	141.46	142.05	141.91	142.17	0.005047	1.50	1.13	2.11	0.65
Spedaluzzo	28	PF Q=Tr200-Tp18	2.80	141.44	142.37	141.84	142.41	0.000645	0.83	3.35	3.59	0.28
Spedaluzzo	28	PF Q=Tr100-Tp18	2.41	141.44	142.29	141.80	142.32	0.000629	0.79	3.05	3.59	0.27
Spedaluzzo	28	PF Q=Tr30-Tp18	1.85	141.44	142.15	141.74	142.18	0.000623	0.72	2.55	3.59	0.27
Spedaluzzo	28	PF Q=Tr20-Tp18	1.69	141.44	142.11	141.72	142.13	0.000626	0.70	2.40	3.59	0.27
Spedaluzzo	27.5		Bridge									
Spedaluzzo	27	PF Q=Tr200-Tp18	2.80	141.34	142.36	141.74	142.39	0.000475	0.75	3.73	3.70	0.24
Spedaluzzo	27	PF Q=Tr100-Tp18	2.41	141.34	142.28	141.70	142.30	0.000452	0.71	3.42	3.69	0.23
Spedaluzzo	27	PF Q=Tr30-Tp18	1.85	141.34	142.14	141.64	142.16	0.000424	0.64	2.91	3.67	0.23
Spedaluzzo	27	PF Q=Tr20-Tp18	1.69	141.34	142.10	141.62	142.12	0.000417	0.61	2.75	3.67	0.23
Spedaluzzo	26.9		Lat Struct									
Spedaluzzo	26.8		Lat Struct									

HEC-RAS Plan: SA_perm_18 River: Spedaluzzo Reach: Spedaluzzo (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	26	PF Q=Tr200-Tp18	2.80	141.33	142.31	141.91	142.38	0.001883	1.20	2.34	2.90	0.42
Spedaluzzo	26	PF Q=Tr100-Tp18	2.41	141.33	142.23	141.85	142.30	0.001856	1.14	2.11	2.81	0.42
Spedaluzzo	26	PF Q=Tr30-Tp18	1.85	141.33	142.10	141.77	142.16	0.001848	1.06	1.75	2.68	0.42
Spedaluzzo	26	PF Q=Tr20-Tp18	1.69	141.33	142.06	141.75	142.11	0.001849	1.03	1.64	2.63	0.42
Spedaluzzo	25	PF Q=Tr200-Tp18	2.80	141.33	142.31	141.91	142.38	0.001918	1.20	2.32	2.89	0.43
Spedaluzzo	25	PF Q=Tr100-Tp18	2.41	141.33	142.23	141.85	142.29	0.001893	1.15	2.09	2.81	0.43
Spedaluzzo	25	PF Q=Tr30-Tp18	1.85	141.33	142.09	141.77	142.15	0.001891	1.07	1.73	2.67	0.42
Spedaluzzo	25	PF Q=Tr20-Tp18	1.69	141.33	142.05	141.75	142.11	0.001895	1.04	1.62	2.63	0.42
Spedaluzzo	24	PF Q=Tr200-Tp18	2.80	141.21	142.22	141.82	142.30	0.002134	1.26	2.22	2.71	0.44
Spedaluzzo	24	PF Q=Tr100-Tp18	2.41	141.21	142.14	141.77	142.21	0.002059	1.19	2.02	2.63	0.44
Spedaluzzo	24	PF Q=Tr30-Tp18	1.85	141.21	142.01	141.68	142.07	0.001980	1.10	1.69	2.50	0.43
Spedaluzzo	24	PF Q=Tr20-Tp18	1.69	141.21	141.97	141.65	142.03	0.001957	1.06	1.59	2.46	0.42
Spedaluzzo	23	PF Q=Tr200-Tp18	2.80	141.12	142.12	141.75	142.22	0.002871	1.39	2.01	2.32	0.48
Spedaluzzo	23	PF Q=Tr100-Tp18	2.41	141.12	142.05	141.69	142.14	0.002642	1.30	1.85	2.27	0.46
Spedaluzzo	23	PF Q=Tr30-Tp18	1.85	141.12	141.94	141.60	142.00	0.002356	1.16	1.59	2.20	0.44
Spedaluzzo	23	PF Q=Tr20-Tp18	1.69	141.12	141.90	141.57	141.96	0.002268	1.12	1.51	2.18	0.43
Spedaluzzo	22	PF Q=Tr200-Tp18	2.80	141.05	141.93	141.70	142.04	0.003311	1.46	1.92	2.71	0.55
Spedaluzzo	22	PF Q=Tr100-Tp18	2.41	141.05	141.86	141.65	141.96	0.003374	1.41	1.72	2.69	0.56
Spedaluzzo	22	PF Q=Tr30-Tp18	1.85	141.05	141.76	141.58	141.84	0.003261	1.28	1.44	2.66	0.55
Spedaluzzo	22	PF Q=Tr20-Tp18	1.69	141.05	141.73	141.56	141.81	0.003226	1.24	1.36	2.65	0.55
Spedaluzzo	21	PF Q=Tr200-Tp18	2.80	141.04	141.91	141.70	142.03	0.002903	1.52	1.84	2.67	0.59
Spedaluzzo	21	PF Q=Tr100-Tp18	2.41	141.04	141.84	141.66	141.95	0.003002	1.47	1.64	2.66	0.60
Spedaluzzo	21	PF Q=Tr30-Tp18	1.85	141.04	141.74	141.59	141.83	0.002955	1.35	1.37	2.64	0.60
Spedaluzzo	21	PF Q=Tr20-Tp18	1.69	141.04	141.71	141.56	141.79	0.002946	1.31	1.29	2.64	0.60
Spedaluzzo	20.5		Bridge									
Spedaluzzo	20	PF Q=Tr200-Tp18	2.80	141.00	141.80	141.71	141.99	0.005282	1.91	1.46	2.40	0.78
Spedaluzzo	20	PF Q=Tr100-Tp18	2.41	141.00	141.70	141.66	141.90	0.006546	1.97	1.22	2.39	0.88
Spedaluzzo	20	PF Q=Tr30-Tp18	1.85	141.00	141.58	141.58	141.78	0.008358	1.97	0.94	2.37	1.00

HEC-RAS Plan: SA_perm_18 River: Spedaluzzo Reach: Spedaluzzo (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	20	PF Q=Tr20-Tp18	1.69	141.00	141.56	141.56	141.74	0.008308	1.91	0.89	2.36	0.99
Spedaluzzo	19	PF Q=Tr200-Tp18	2.80	140.98	141.86	141.51	141.94	0.002394	1.29	2.17	2.75	0.46
Spedaluzzo	19	PF Q=Tr100-Tp18	2.41	140.98	141.77	141.47	141.85	0.002493	1.25	1.92	2.69	0.47
Spedaluzzo	19	PF Q=Tr30-Tp18	1.85	140.98	141.63	141.39	141.70	0.002695	1.19	1.55	2.60	0.49
Spedaluzzo	19	PF Q=Tr20-Tp18	1.69	140.98	141.59	141.37	141.65	0.002765	1.17	1.45	2.58	0.50
Spedaluzzo	18	PF Q=Tr200-Tp18	2.80	140.87	141.82	141.37	141.88	0.001446	1.06	2.63	3.06	0.37
Spedaluzzo	18	PF Q=Tr100-Tp18	2.41	140.87	141.73	141.32	141.78	0.001478	1.03	2.34	3.00	0.37
Spedaluzzo	18	PF Q=Tr30-Tp18	1.85	140.87	141.58	141.25	141.63	0.001546	0.97	1.92	2.91	0.38
Spedaluzzo	18	PF Q=Tr20-Tp18	1.69	140.87	141.54	141.23	141.58	0.001567	0.94	1.79	2.89	0.38
Spedaluzzo	17.9		Lat Struct									
Spedaluzzo	17	PF Q=Tr200-Tp18	2.80	140.74	141.69	141.37	141.81	0.003388	1.48	1.89	2.26	0.52
Spedaluzzo	17	PF Q=Tr100-Tp18	2.41	140.74	141.60	141.31	141.71	0.003409	1.43	1.69	2.21	0.52
Spedaluzzo	17	PF Q=Tr30-Tp18	1.85	140.74	141.47	141.22	141.56	0.003431	1.33	1.39	2.13	0.53
Spedaluzzo	17	PF Q=Tr20-Tp18	1.69	140.74	141.43	141.20	141.51	0.003424	1.30	1.30	2.10	0.53
Spedaluzzo	16	PF Q=Tr200-Tp18	2.80	140.60	141.49	141.28	141.65	0.005415	1.78	1.57	2.08	0.65
Spedaluzzo	16	PF Q=Tr100-Tp18	2.41	140.60	141.39	141.22	141.55	0.005881	1.76	1.37	2.01	0.68
Spedaluzzo	16	PF Q=Tr30-Tp18	1.85	140.60	141.23	141.12	141.39	0.007079	1.76	1.05	1.89	0.75
Spedaluzzo	16	PF Q=Tr20-Tp18	1.69	140.60	141.18	141.09	141.34	0.007635	1.76	0.96	1.86	0.78
Spedaluzzo	15	PF Q=Tr200-Tp18	2.80	140.56	141.53	141.12	141.61	0.001528	1.21	2.31	2.66	0.42
Spedaluzzo	15	PF Q=Tr100-Tp18	2.41	140.56	141.43	141.07	141.50	0.001609	1.19	2.03	2.65	0.43
Spedaluzzo	15	PF Q=Tr30-Tp18	1.85	140.56	141.27	140.99	141.33	0.001806	1.15	1.61	2.54	0.46
Spedaluzzo	15	PF Q=Tr20-Tp18	1.69	140.56	141.22	140.96	141.28	0.001895	1.14	1.49	2.50	0.47
Spedaluzzo	14.5		Bridge									
Spedaluzzo	14	PF Q=Tr200-Tp18	2.80	140.31	141.08	141.04	141.37	0.009273	2.38	1.18	1.68	0.91
Spedaluzzo	14	PF Q=Tr100-Tp18	2.41	140.31	141.03	140.97	141.28	0.008683	2.23	1.08	1.66	0.88
Spedaluzzo	14	PF Q=Tr30-Tp18	1.85	140.31	140.93	140.87	141.13	0.007949	2.01	0.92	1.62	0.85
Spedaluzzo	14	PF Q=Tr20-Tp18	1.69	140.31	140.90	140.83	141.09	0.007727	1.94	0.87	1.60	0.84

HEC-RAS Plan: SA_perm_18 River: Spedaluzzo Reach: Spedaluzzo (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	13.9		Lat Struct									
Spedaluzzo	13.8		Lat Struct									
Spedaluzzo	13	PF Q=Tr200-Tp18	2.80	140.21	141.03	140.81	141.17	0.004696	1.67	1.68	2.25	0.62
Spedaluzzo	13	PF Q=Tr100-Tp18	2.41	140.21	140.97	140.76	141.09	0.004438	1.57	1.54	2.22	0.60
Spedaluzzo	13	PF Q=Tr30-Tp18	1.85	140.21	140.87	140.67	140.97	0.004033	1.41	1.32	2.17	0.58
Spedaluzzo	13	PF Q=Tr20-Tp18	1.69	140.21	140.84	140.64	140.93	0.003906	1.35	1.25	2.15	0.57
Spedaluzzo	12	PF Q=Tr200-Tp18	2.80	140.21	140.90	140.82	141.10	0.007375	1.98	1.42	2.39	0.82
Spedaluzzo	12	PF Q=Tr100-Tp18	2.41	140.21	140.84	140.77	141.02	0.007585	1.91	1.26	2.33	0.83
Spedaluzzo	12	PF Q=Tr30-Tp18	1.85	140.21	140.73	140.68	140.90	0.008030	1.80	1.03	2.22	0.85
Spedaluzzo	12	PF Q=Tr20-Tp18	1.69	140.21	140.70	140.65	140.86	0.008202	1.77	0.96	2.19	0.86
Spedaluzzo	11	PF Q=Tr200-Tp18	2.80	140.09	140.86	140.70	141.02	0.005106	1.73	1.62	2.48	0.68
Spedaluzzo	11	PF Q=Tr100-Tp18	2.41	140.09	140.80	140.65	140.94	0.005098	1.66	1.45	2.41	0.68
Spedaluzzo	11	PF Q=Tr30-Tp18	1.85	140.09	140.69	140.56	140.81	0.005093	1.54	1.20	2.30	0.68
Spedaluzzo	11	PF Q=Tr20-Tp18	1.69	140.09	140.66	140.53	140.77	0.005092	1.50	1.13	2.27	0.68
Spedaluzzo	10	PF Q=Tr200-Tp18	2.80	139.85	140.62	140.46	140.77	0.005300	1.75	1.60	2.47	0.70
Spedaluzzo	10	PF Q=Tr100-Tp18	2.41	139.85	140.55	140.41	140.69	0.005238	1.68	1.44	2.40	0.69
Spedaluzzo	10	PF Q=Tr30-Tp18	1.85	139.85	140.45	140.32	140.57	0.005186	1.55	1.20	2.30	0.68
Spedaluzzo	10	PF Q=Tr20-Tp18	1.69	139.85	140.42	140.29	140.53	0.005165	1.50	1.12	2.27	0.68
Spedaluzzo	09	PF Q=Tr200-Tp18	2.80	139.68	140.34	140.29	140.56	0.006578	2.08	1.35	2.36	0.88
Spedaluzzo	09	PF Q=Tr100-Tp18	2.41	139.68	140.27	140.24	140.48	0.006963	2.03	1.19	2.29	0.90
Spedaluzzo	09	PF Q=Tr30-Tp18	1.85	139.68	140.20	140.15	140.37	0.006310	1.81	1.02	2.22	0.85
Spedaluzzo	09	PF Q=Tr20-Tp18	1.69	139.68	140.17	140.13	140.33	0.006225	1.76	0.96	2.19	0.85
Spedaluzzo	08.5		Bridge									
Spedaluzzo	08	PF Q=Tr200-Tp18	2.80	139.63	140.36	140.19	140.50	0.003642	1.66	1.69	2.59	0.66
Spedaluzzo	08	PF Q=Tr100-Tp18	2.41	139.63	140.29	140.14	140.42	0.003797	1.61	1.50	2.53	0.67
Spedaluzzo	08	PF Q=Tr30-Tp18	1.85	139.63	140.18	140.06	140.30	0.003960	1.51	1.23	2.44	0.68
Spedaluzzo	08	PF Q=Tr20-Tp18	1.69	139.63	140.15	140.03	140.26	0.004025	1.48	1.14	2.42	0.68

HEC-RAS Plan: SA_perm_18 River: Spedaluzzo Reach: Spedaluzzo (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	7.9		Lat Struct									
Spedaluzzo	7.8		Lat Struct									
Spedaluzzo	07	PF Q=Tr200-Tp18	2.80	139.49	140.27	140.10	140.42	0.004960	1.71	1.63	2.49	0.67
Spedaluzzo	07	PF Q=Tr100-Tp18	2.41	139.49	140.19	140.05	140.33	0.005287	1.68	1.43	2.40	0.69
Spedaluzzo	07	PF Q=Tr30-Tp18	1.85	139.49	140.08	139.96	140.20	0.005458	1.58	1.17	2.29	0.70
Spedaluzzo	07	PF Q=Tr20-Tp18	1.69	139.49	140.04	139.94	140.17	0.005529	1.54	1.10	2.26	0.71
Spedaluzzo	06	PF Q=Tr200-Tp18	2.80	139.23	140.06	139.86	140.22	0.005401	1.75	1.60	2.12	0.64
Spedaluzzo	06	PF Q=Tr100-Tp18	2.41	139.23	139.87	139.80	140.08	0.008782	2.01	1.20	2.03	0.83
Spedaluzzo	06	PF Q=Tr30-Tp18	1.85	139.23	139.77	139.71	139.95	0.008888	1.87	0.99	1.98	0.84
Spedaluzzo	06	PF Q=Tr20-Tp18	1.69	139.23	139.74	139.68	139.90	0.008911	1.82	0.93	1.96	0.84
Spedaluzzo	05	PF Q=Tr200-Tp18	2.80	139.06	140.01	139.69	140.13	0.003691	1.52	1.84	2.18	0.53
Spedaluzzo	05	PF Q=Tr100-Tp18	2.41	139.06	139.73	139.63	139.92	0.007981	1.94	1.24	2.04	0.79
Spedaluzzo	05	PF Q=Tr30-Tp18	1.85	139.06	139.62	139.54	139.78	0.008128	1.81	1.02	1.98	0.80
Spedaluzzo	05	PF Q=Tr20-Tp18	1.69	139.06	139.59	139.51	139.74	0.008051	1.76	0.96	1.97	0.80
Spedaluzzo	04	PF Q=Tr200-Tp18	2.80	138.61	139.98	139.18	140.00	0.000375	0.64	4.35	4.64	0.21
Spedaluzzo	04	PF Q=Tr100-Tp18	2.41	138.61	139.54	139.13	139.58	0.001248	0.97	2.50	3.69	0.37
Spedaluzzo	04	PF Q=Tr30-Tp18	1.85	138.61	139.11	139.06	139.25	0.007034	1.67	1.11	2.76	0.84
Spedaluzzo	04	PF Q=Tr20-Tp18	1.69	138.61	139.08	139.03	139.22	0.007027	1.62	1.04	2.71	0.84
Spedaluzzo	03	PF Q=Tr200-Tp18	2.80	138.27	139.98	138.84	139.99	0.000146	0.45	6.25	5.63	0.14
Spedaluzzo	03	PF Q=Tr100-Tp18	2.41	138.27	139.52	138.79	139.54	0.000377	0.61	3.93	4.58	0.21
Spedaluzzo	03	PF Q=Tr30-Tp18	1.85	138.27	138.79	138.71	138.91	0.005950	1.56	1.19	2.89	0.78
Spedaluzzo	03	PF Q=Tr20-Tp18	1.69	138.27	138.77	138.69	138.88	0.005696	1.49	1.13	2.85	0.76
Spedaluzzo	02	PF Q=Tr200-Tp18	2.80	137.79	139.97	138.36	139.98	0.000055	0.31	8.97	6.51	0.08
Spedaluzzo	02	PF Q=Tr100-Tp18	2.41	137.79	139.52	138.31	139.52	0.000108	0.39	6.22	5.50	0.12
Spedaluzzo	02	PF Q=Tr30-Tp18	1.85	137.79	138.66	138.24	138.70	0.000906	0.79	2.33	3.63	0.32
Spedaluzzo	02	PF Q=Tr20-Tp18	1.69	137.79	138.66	138.21	138.69	0.000769	0.73	2.31	3.62	0.29
Spedaluzzo	01	PF Q=Tr200-Tp18	2.80	137.36	139.97	137.97	139.98	0.000065	0.34	8.29	4.66	0.08
Spedaluzzo	01	PF Q=Tr100-Tp18	2.41	137.36	139.51	137.91	139.52	0.000100	0.38	6.27	4.13	0.10

HEC-RAS Plan: SA_perm_18 River: Spedaluzzo Reach: Spedaluzzo (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Spedaluzzo	01	PF Q=Tr30-Tp18	1.85	137.36	138.64	137.83	138.66	0.000381	0.60	3.10	3.15	0.19
Spedaluzzo	01	PF Q=Tr20-Tp18	1.69	137.36	138.64	137.80	138.66	0.000318	0.54	3.10	3.15	0.18

HEC-RAS Plan: SA_perm_18

Storage Area	Profile	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
		(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
36_dx	PF Q=Tr200-Tp18	143.00	143.00	0.00	2.50	0.00
36_dx	PF Q=Tr100-Tp18	143.00	143.00	0.00	2.50	0.00
36_dx	PF Q=Tr30-Tp18	143.00	143.00	0.00	2.50	0.00
36_dx	PF Q=Tr20-Tp18	143.00	143.00	0.00	2.50	0.00
36_sx	PF Q=Tr200-Tp18	143.00	143.00	0.00	1.30	0.00
36_sx	PF Q=Tr100-Tp18	143.00	143.00	0.00	1.30	0.00
36_sx	PF Q=Tr30-Tp18	143.00	143.00	0.00	1.30	0.00
36_sx	PF Q=Tr20-Tp18	143.00	143.00	0.00	1.30	0.00
SA_Sped_Dx1	PF Q=Tr200-Tp18	139.50	139.50	0.00	56.00	0.00
SA_Sped_Dx1	PF Q=Tr100-Tp18	139.50	139.50	0.00	56.00	0.00
SA_Sped_Dx1	PF Q=Tr30-Tp18	139.50	139.50	0.00	56.00	0.00
SA_Sped_Dx1	PF Q=Tr20-Tp18	139.50	139.50	0.00	56.00	0.00
SA_Sped_Sx1	PF Q=Tr200-Tp18	140.60	140.60	0.00	3.00	0.00
SA_Sped_Sx1	PF Q=Tr100-Tp18	140.60	140.60	0.00	3.00	0.00
SA_Sped_Sx1	PF Q=Tr30-Tp18	140.60	140.60	0.00	3.00	0.00
SA_Sped_Sx1	PF Q=Tr20-Tp18	140.60	140.60	0.00	3.00	0.00
Spedaluzzo_StSn	PF Q=Tr200-Tp18	138.20	138.20	0.00	9.00	0.00
Spedaluzzo_StSn	PF Q=Tr100-Tp18	138.20	138.20	0.00	9.00	0.00
Spedaluzzo_StSn	PF Q=Tr30-Tp18	138.20	138.20	0.00	9.00	0.00
Spedaluzzo_StSn	PF Q=Tr20-Tp18	138.20	138.20	0.00	9.00	0.00

borro del Giglio

verifiche con Tpioggia critico per il Borro del Giglio

- moto vario

  Tr=200, 100, 30 e 20 anni

  profilo

  livelli idrici nelle sezioni di verifica

  tabella di output del software Hec-ras 4.0

  livelli e portate in ingresso alle aree di accumulo

verifiche con Tpioggia critico per il Fiume Arno

- moto vario

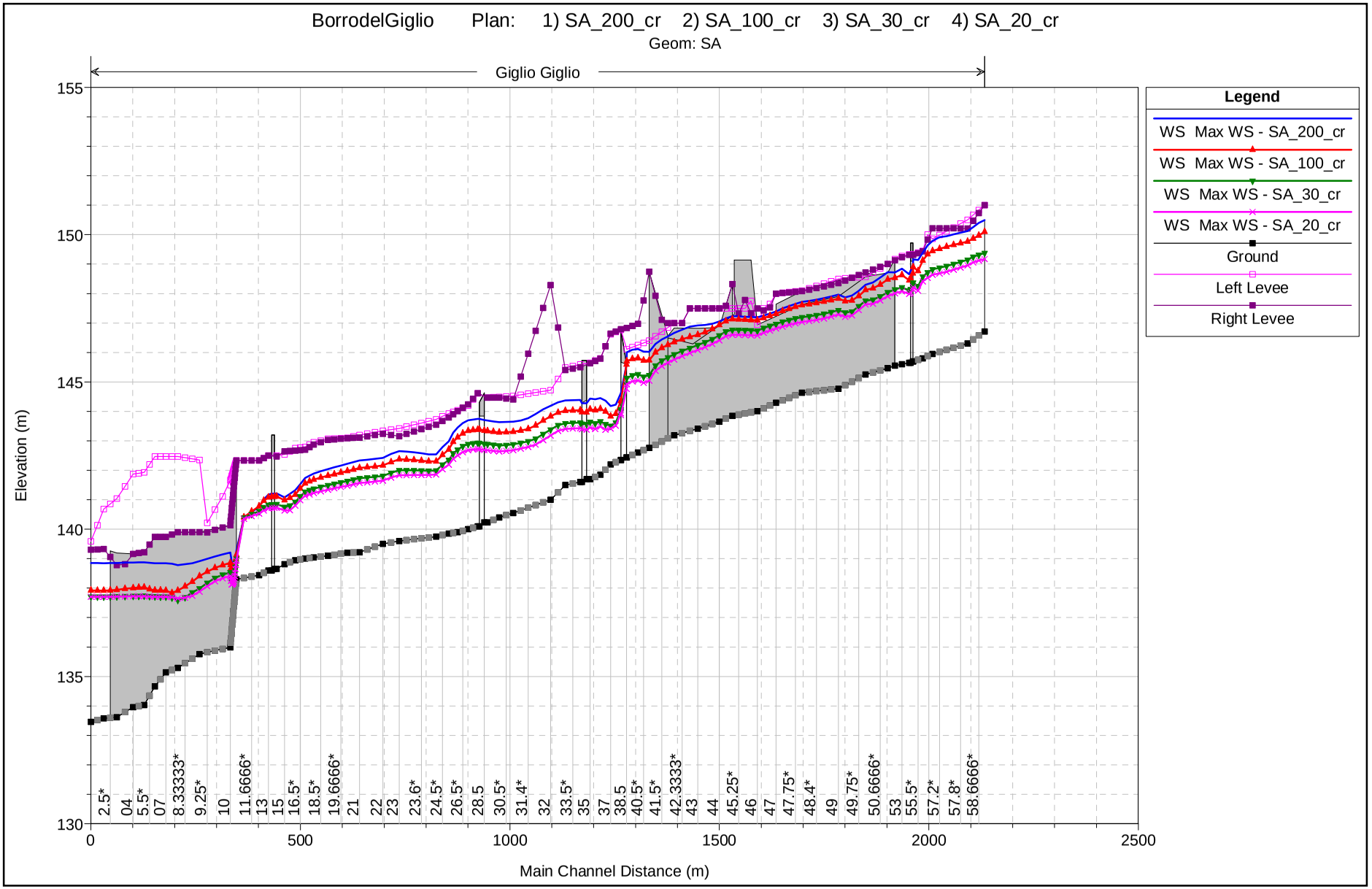
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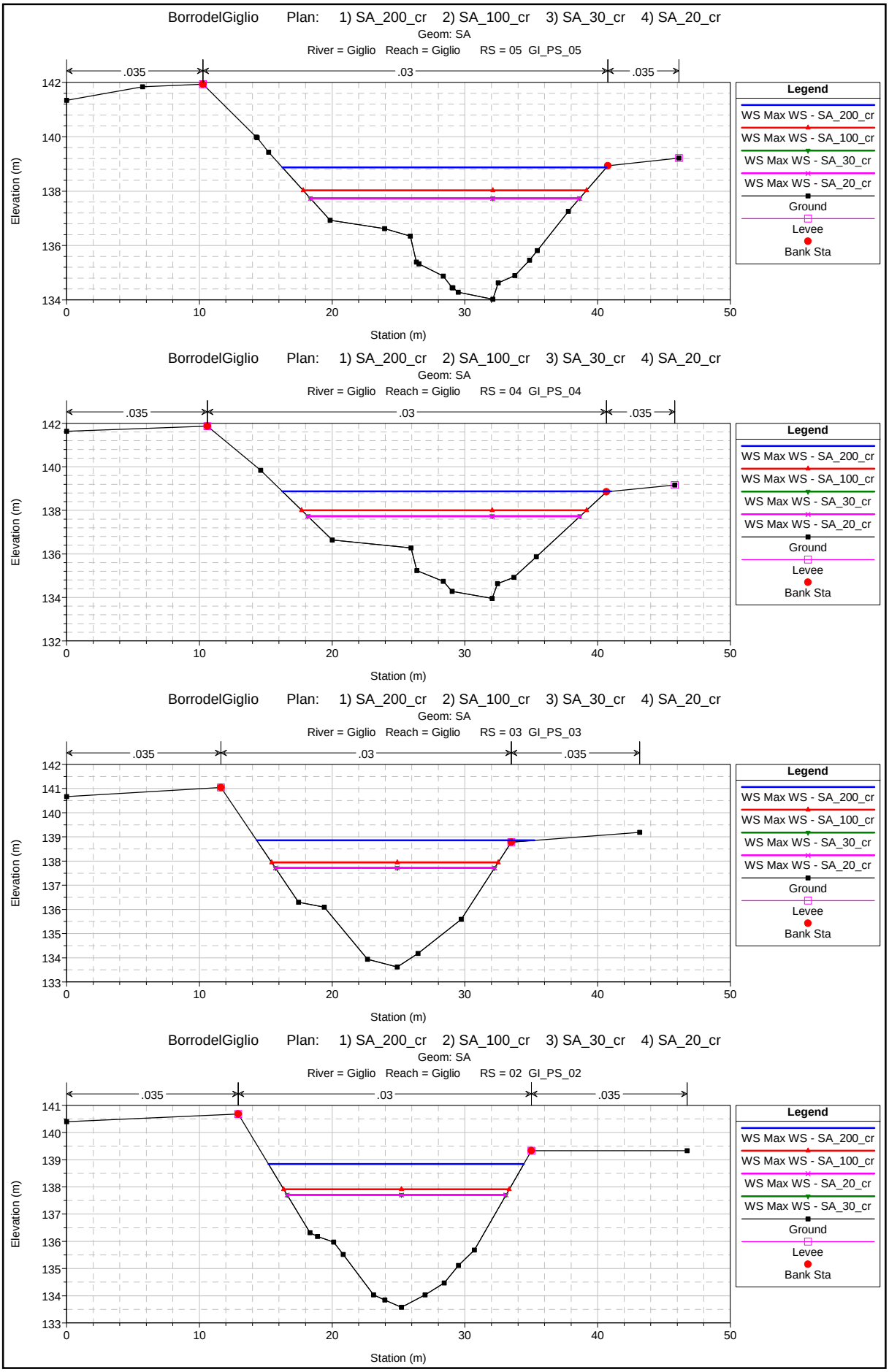
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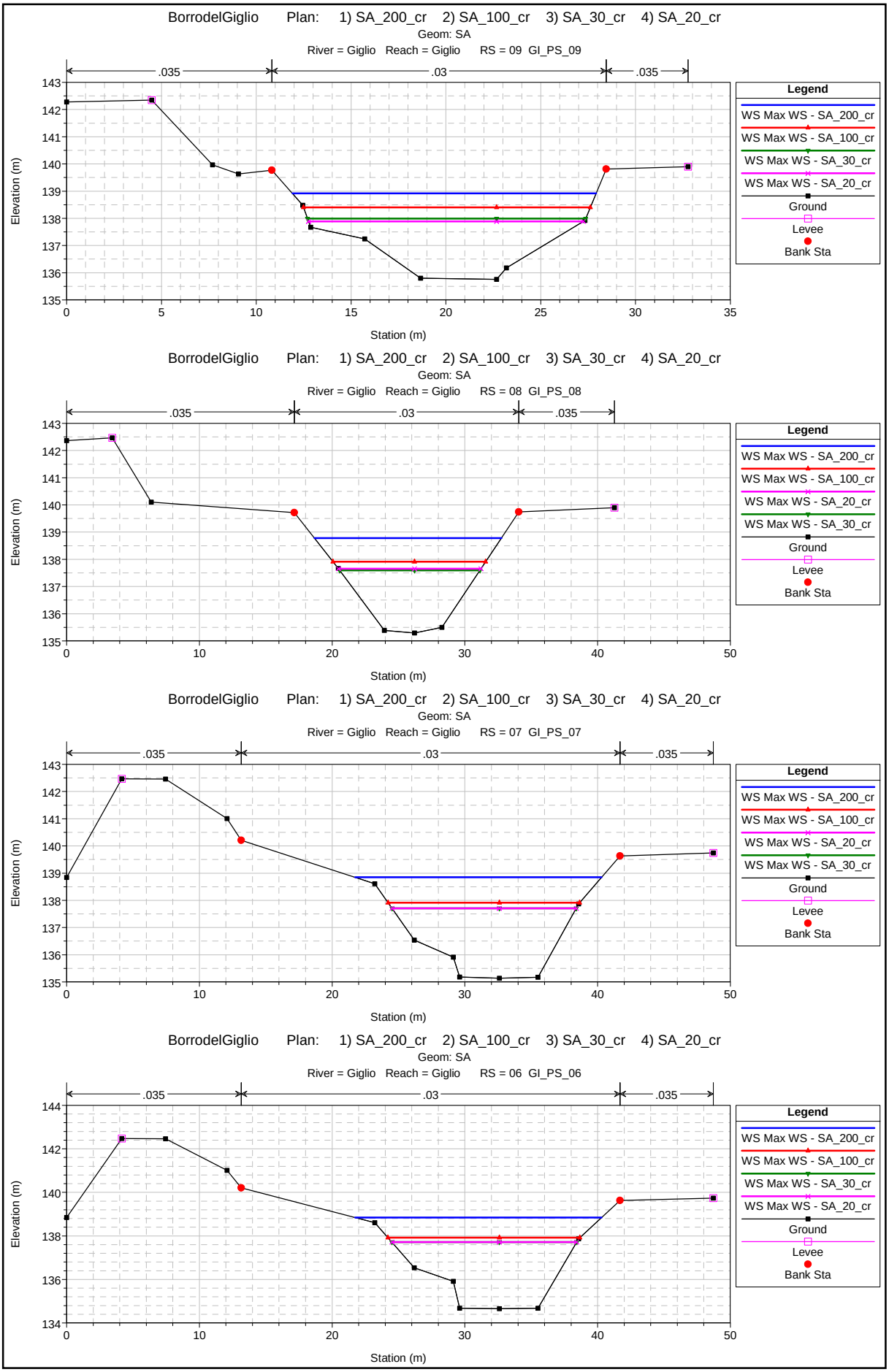
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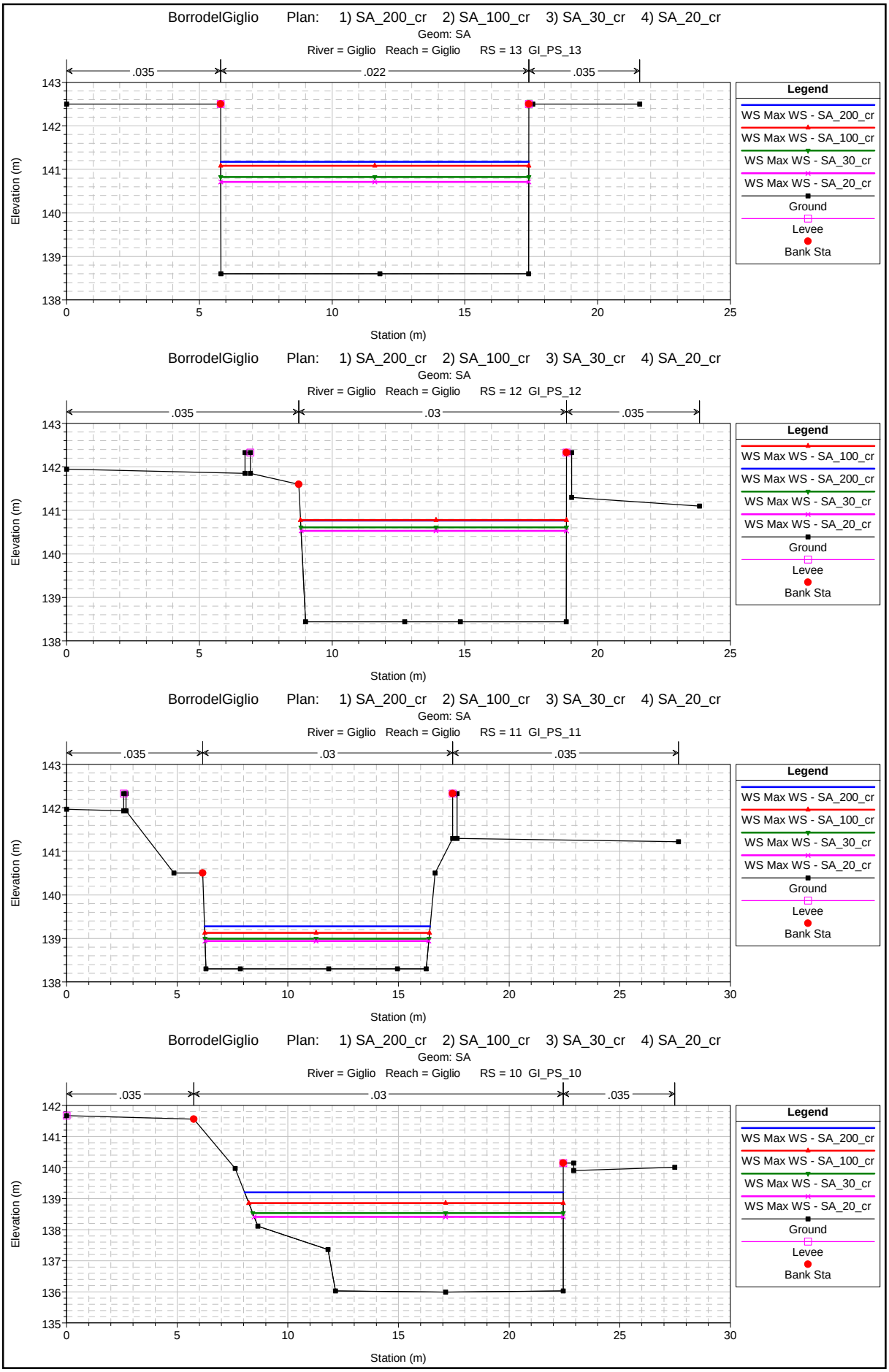
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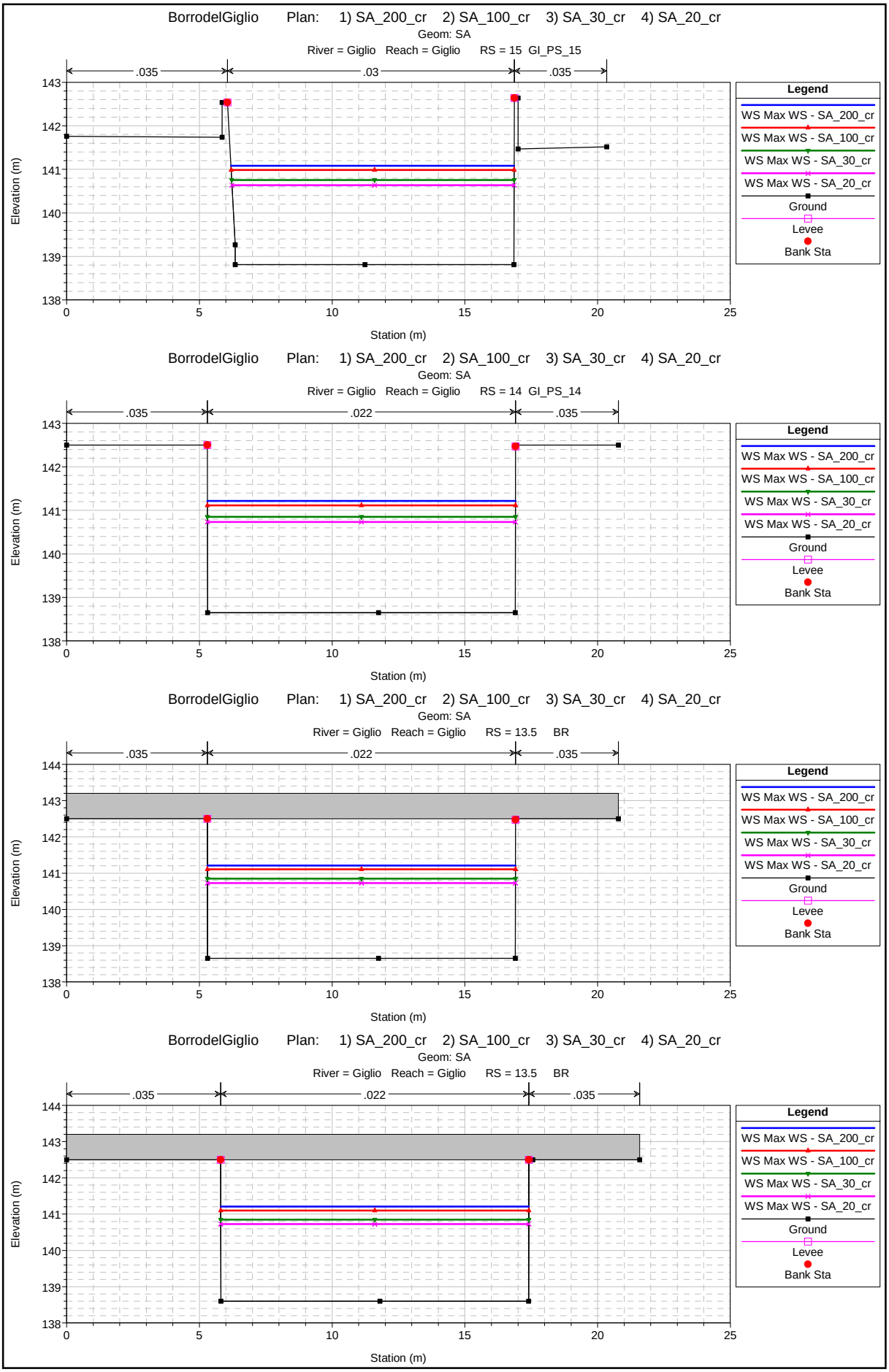
  livelli e portate in ingresso alle aree di accumulo

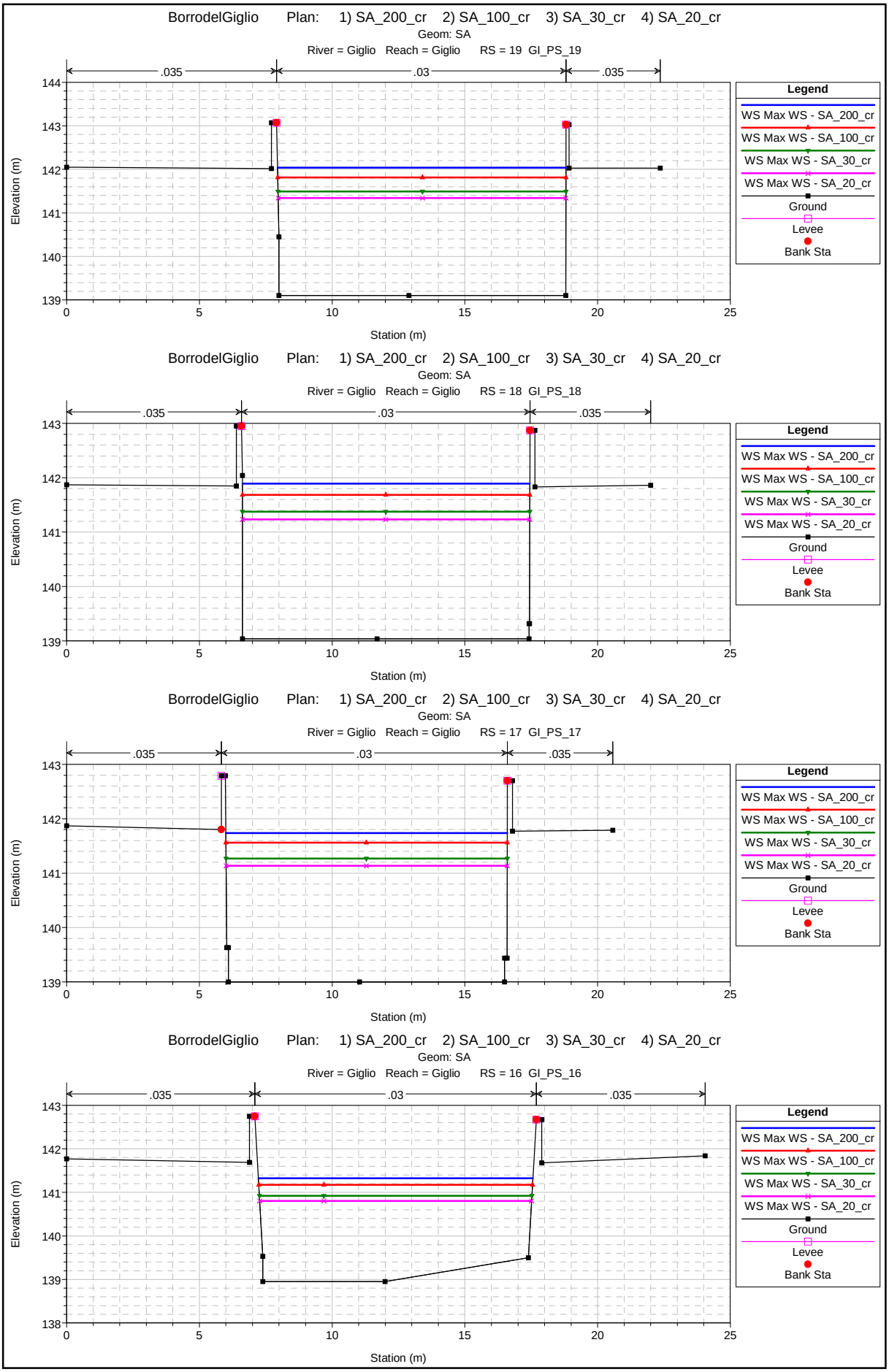

BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
Giglio Giglio
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Left Levee
Right Levee
Elevation (m)
155
150
145
140
135
130
0
500
1000
1500
2000
2500
Main Channel Distance (m)
2.5*
04
5.5*
07
8.3333*
9.25*
10
11.6666*
13
15
16.5*
18.5*
19.6666*
21
22
23
23.6*
24.5*
26.5*
28.5
30.5*
31.4*
32
33.5*
35
37
38.5
40.5*
41.5*
42.3333*
43
44
45.25*
46
47
47.75*
48.4*
49
49.75*
50.6666*
53
55.5*
57.2*
57.8*
58.6666*

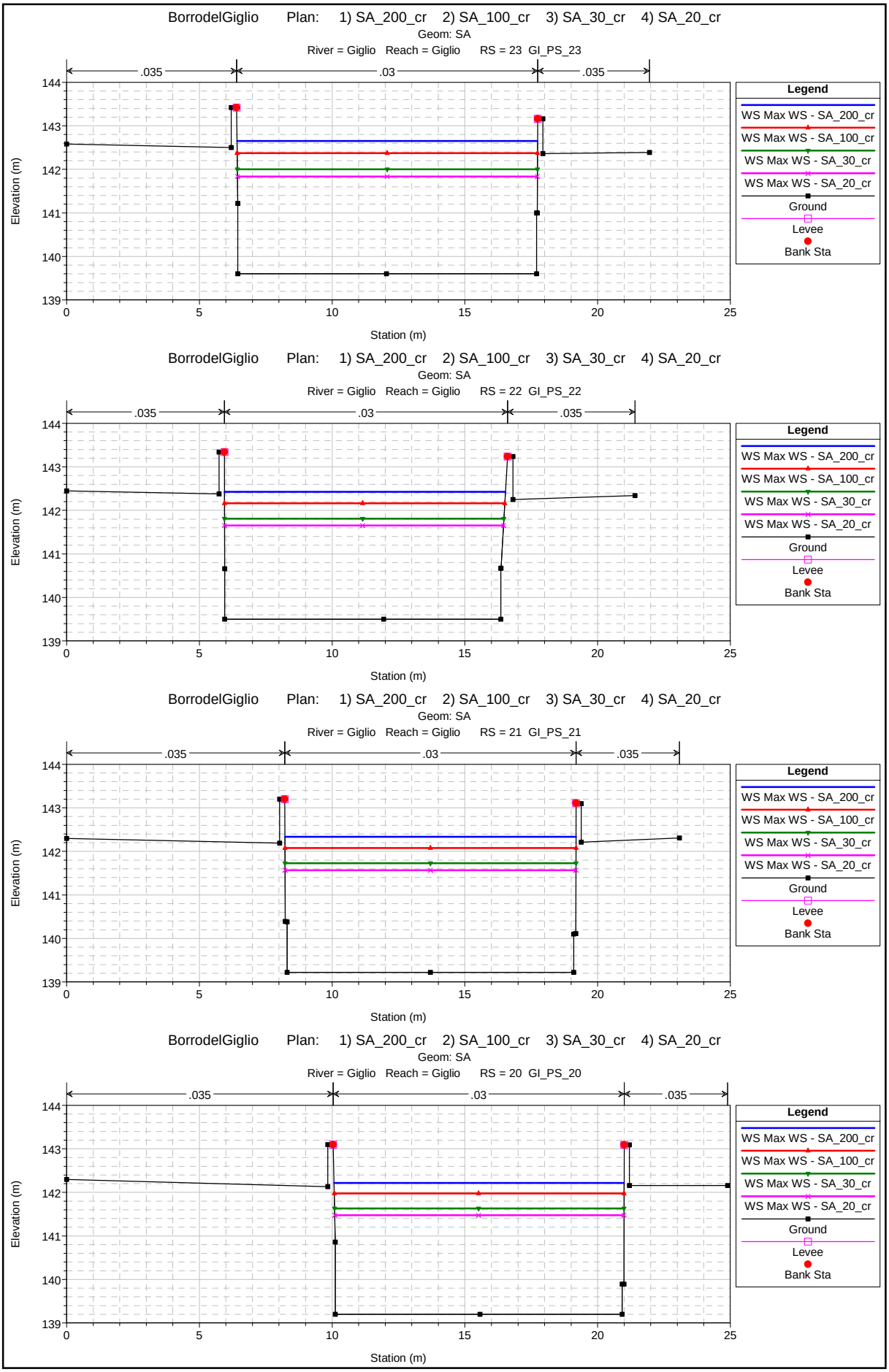

BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 05 GI_PS_05
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 04 GI_PS_04
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 03 GI_PS_03
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 02 GI_PS_02
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_20_cr
WS Max WS - SA_30_cr
Ground
Levee
Bank Sta

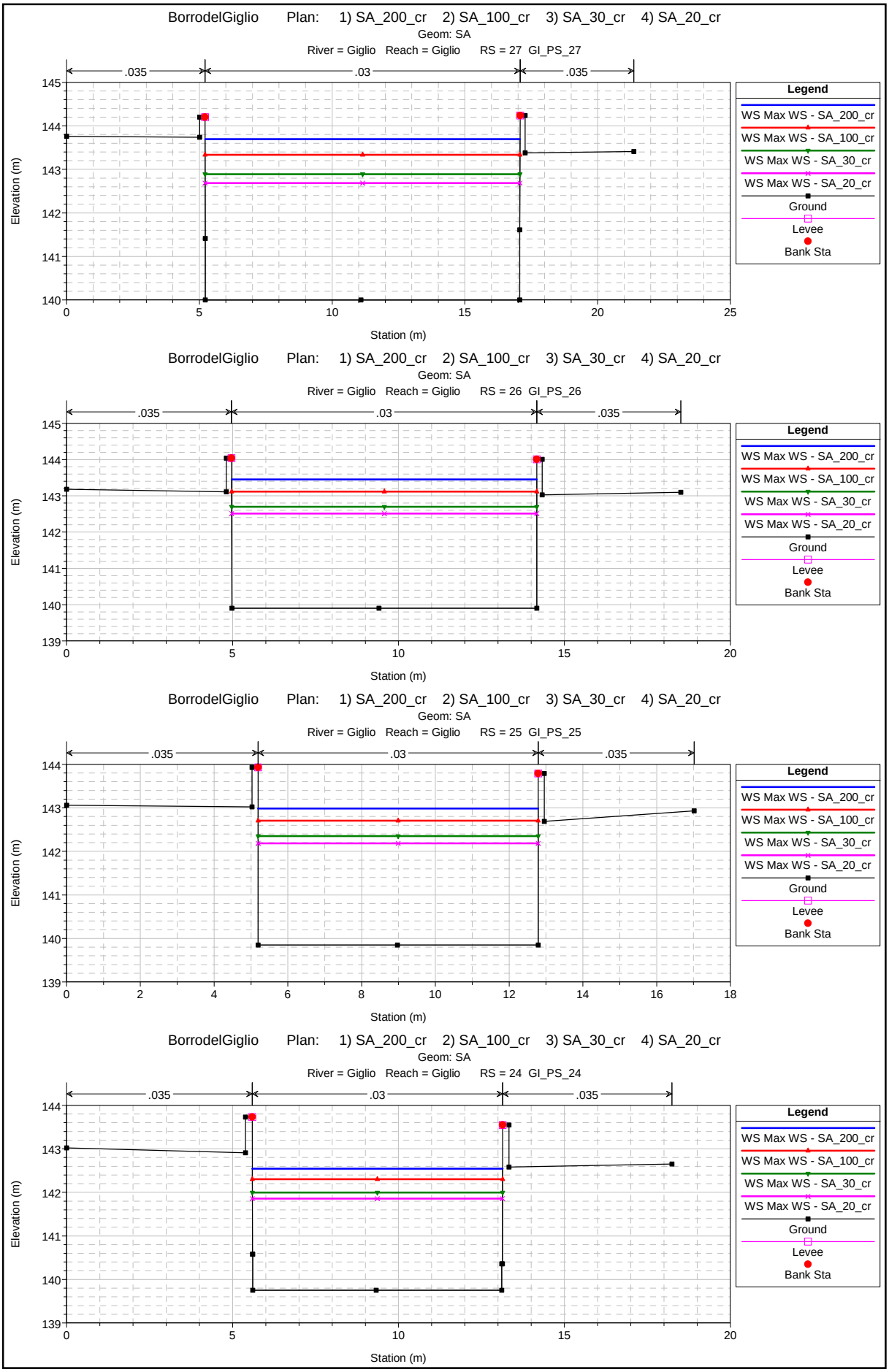

BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 09 GI_PS_09
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 08 GI_PS_08
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_20_cr
WS Max WS - SA_30_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 07 GI_PS_07
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_20_cr
WS Max WS - SA_30_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 06 GI_PS_06
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

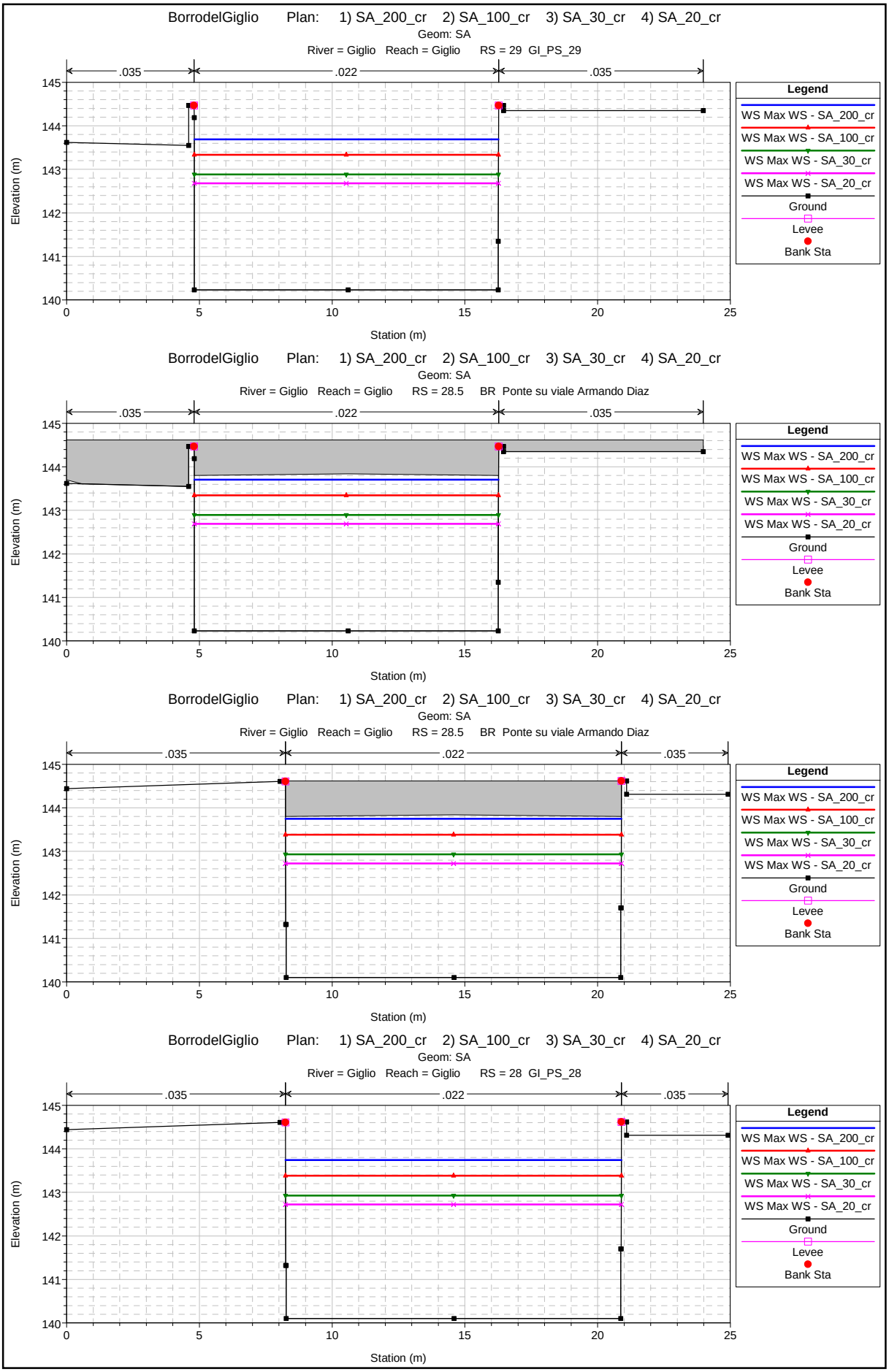

BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 13 GI_PS_13
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 12 GI_PS_12
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_100_cr
WS Max WS - SA_200_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 11 GI_PS_11
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 10 GI_PS_10
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

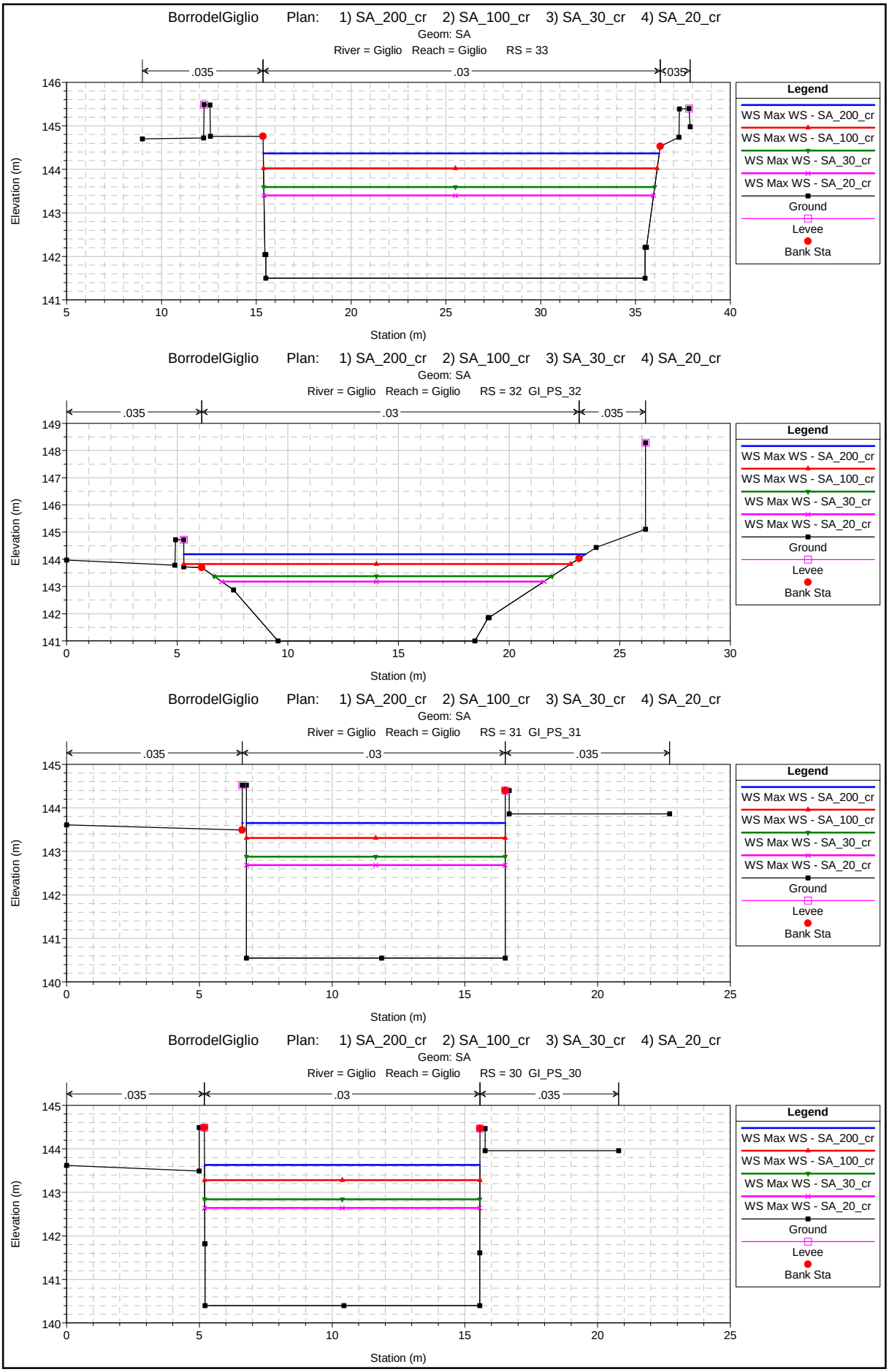

BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 15 GI_PS_15
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 14 GI_PS_14
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 13.5 BR
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 13.5 BR
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

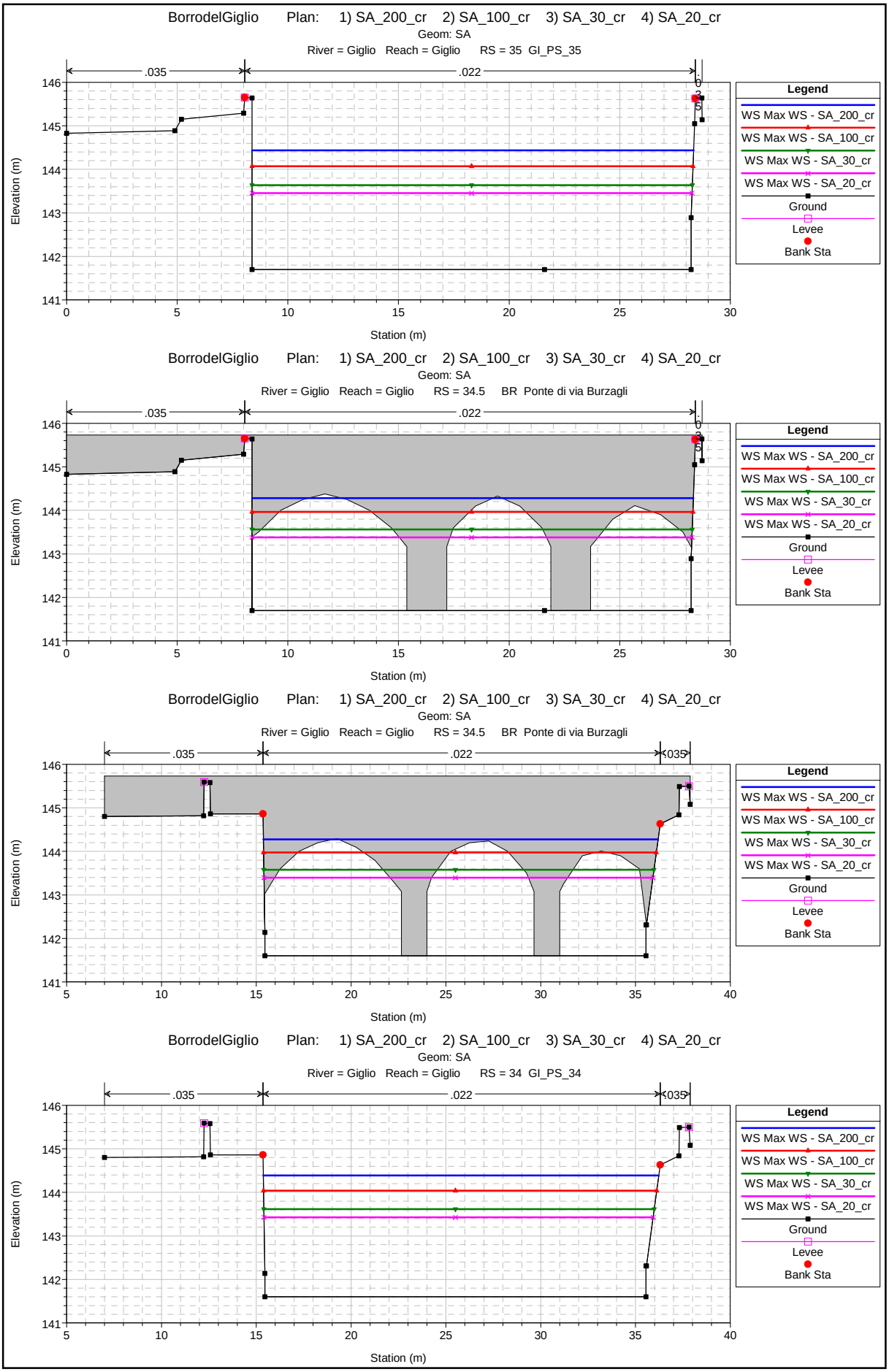

BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 19 GI_PS_19
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 18 GI_PS_18
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 17 GI_PS_17
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 16 GI_PS_16
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

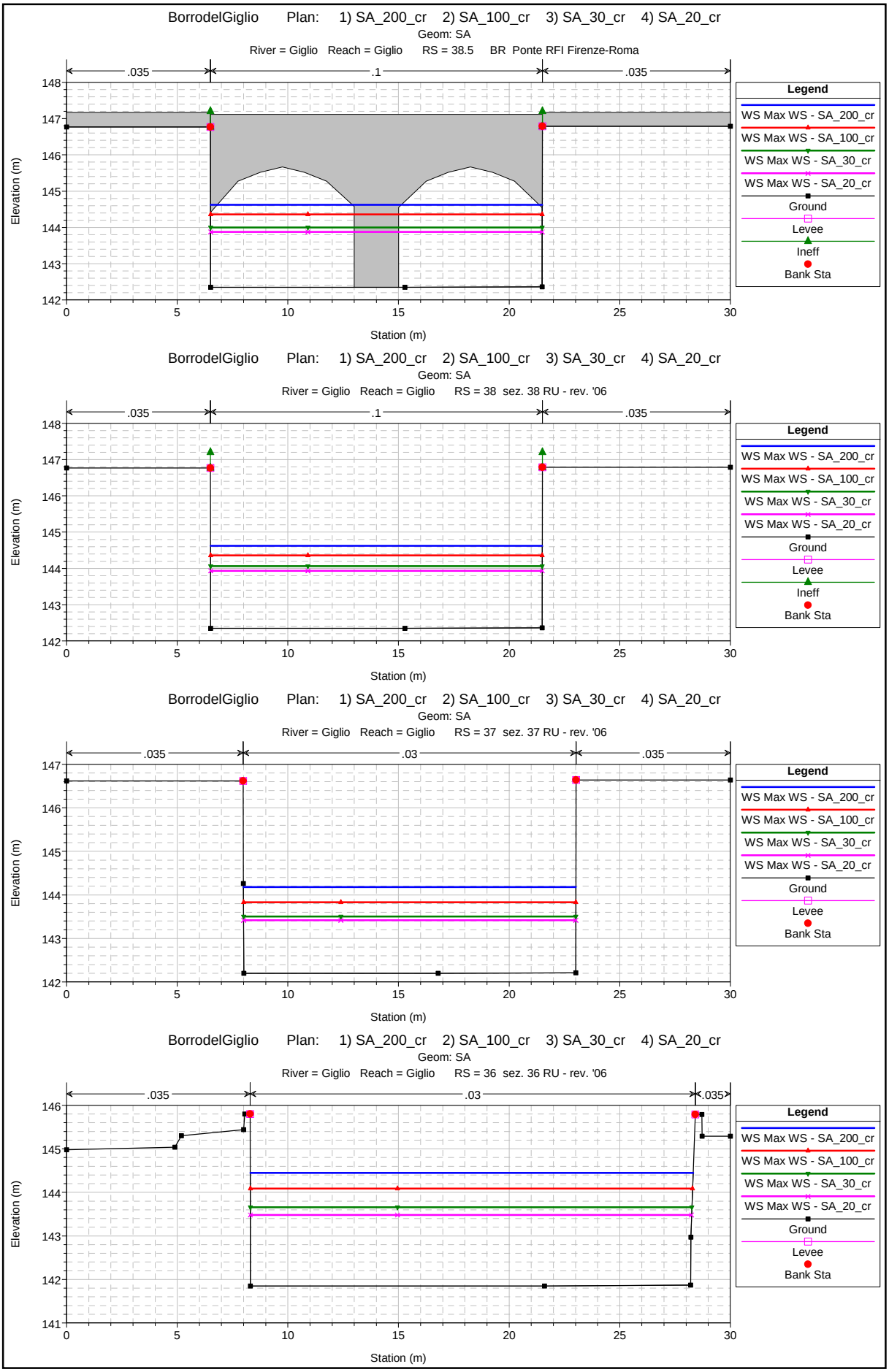

BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 23 GI_PS_23
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 22 GI_PS_22
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 21 GI_PS_21
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 20 GI_PS_20
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 27 GI_PS_27
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 26 GI_PS_26
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 25 GI_PS_25
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 24 GI_PS_24
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 29 GI_PS_29
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 28.5 BR Ponte su viale Armando Diaz
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 28.5 BR Ponte su viale Armando Diaz
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 28 GI_PS_28
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 33
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 32 GI_PS_32
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 31 GI_PS_31
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 30 GI_PS_30
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

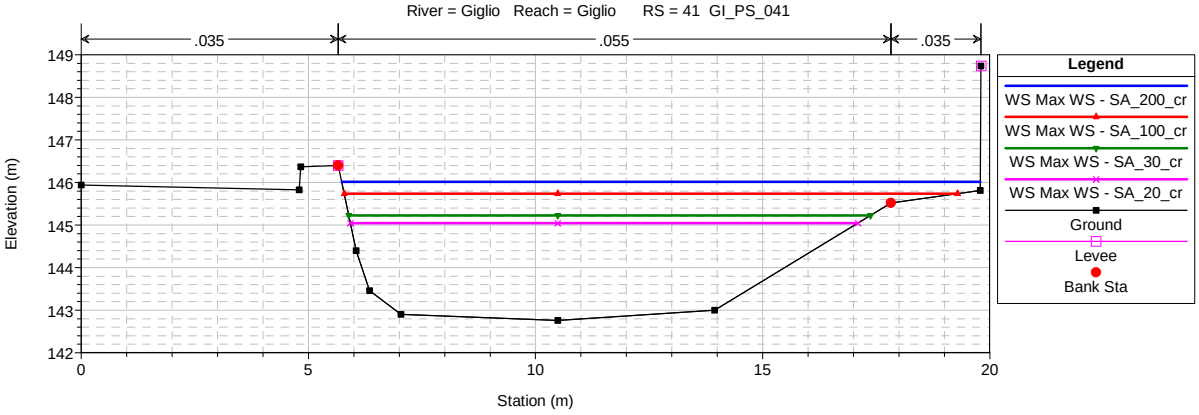

BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 35 GI_PS_35
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 34.5 BR Ponte di via Burzagli
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 34.5 BR Ponte di via Burzagli
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 34 GI_PS_34
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 38.5 BR Ponte RFI Firenze-Roma
.035
.1
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 38 sez. 38 RU - rev. '06
.035
.1
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 37 sez. 37 RU - rev. '06
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 36 sez. 36 RU - rev. '06
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

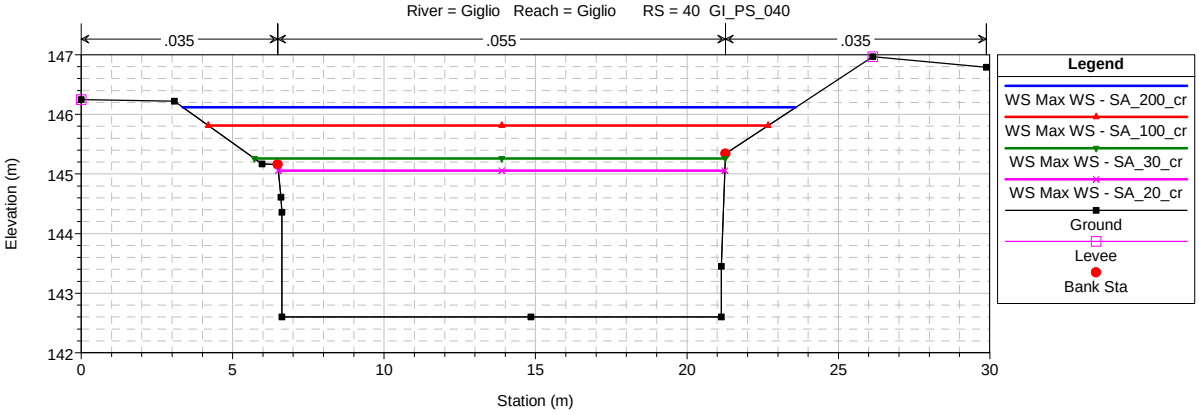
River = Giglio Reach = Giglio RS = 41 GI_PS_041



BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

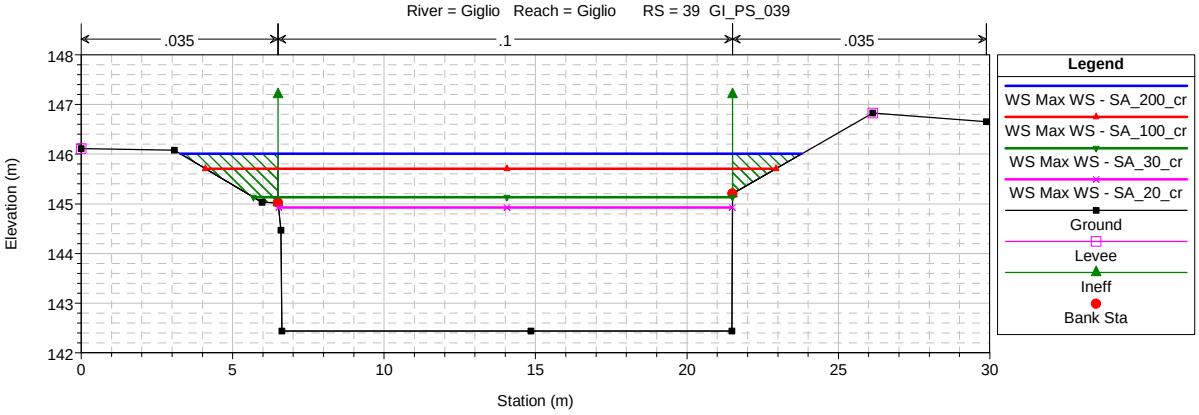
River = Giglio Reach = Giglio RS = 40 GI_PS_040



BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

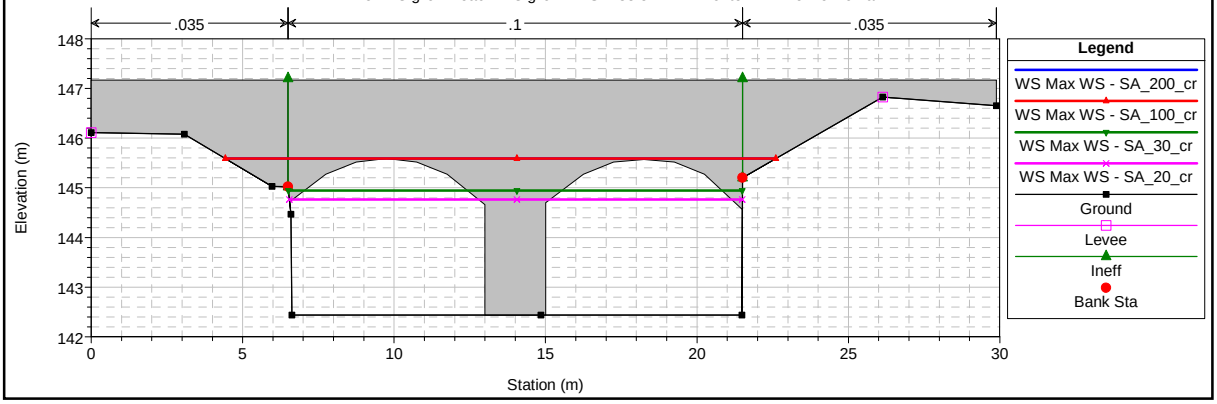
River = Giglio Reach = Giglio RS = 39 GI_PS_039

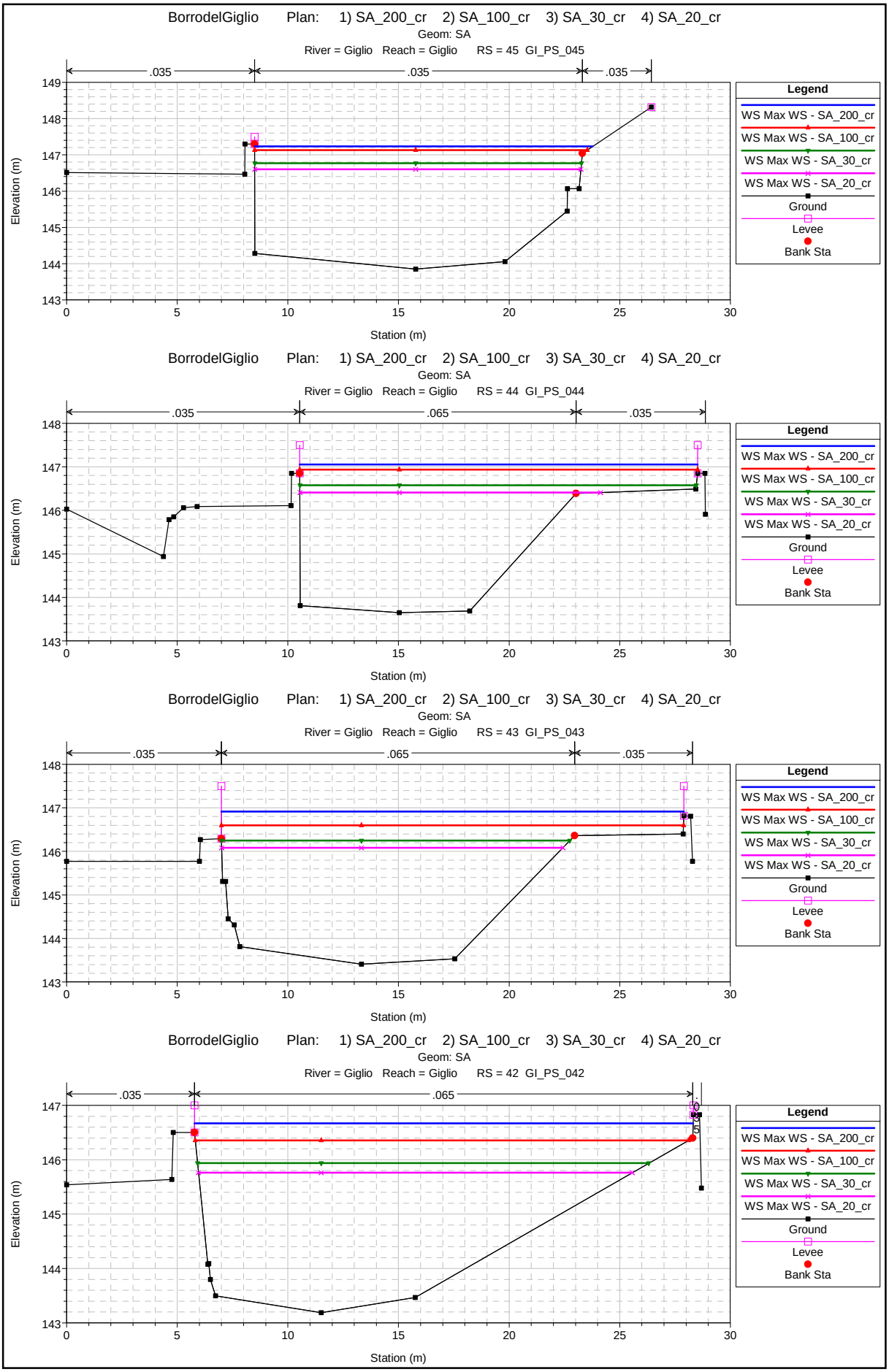


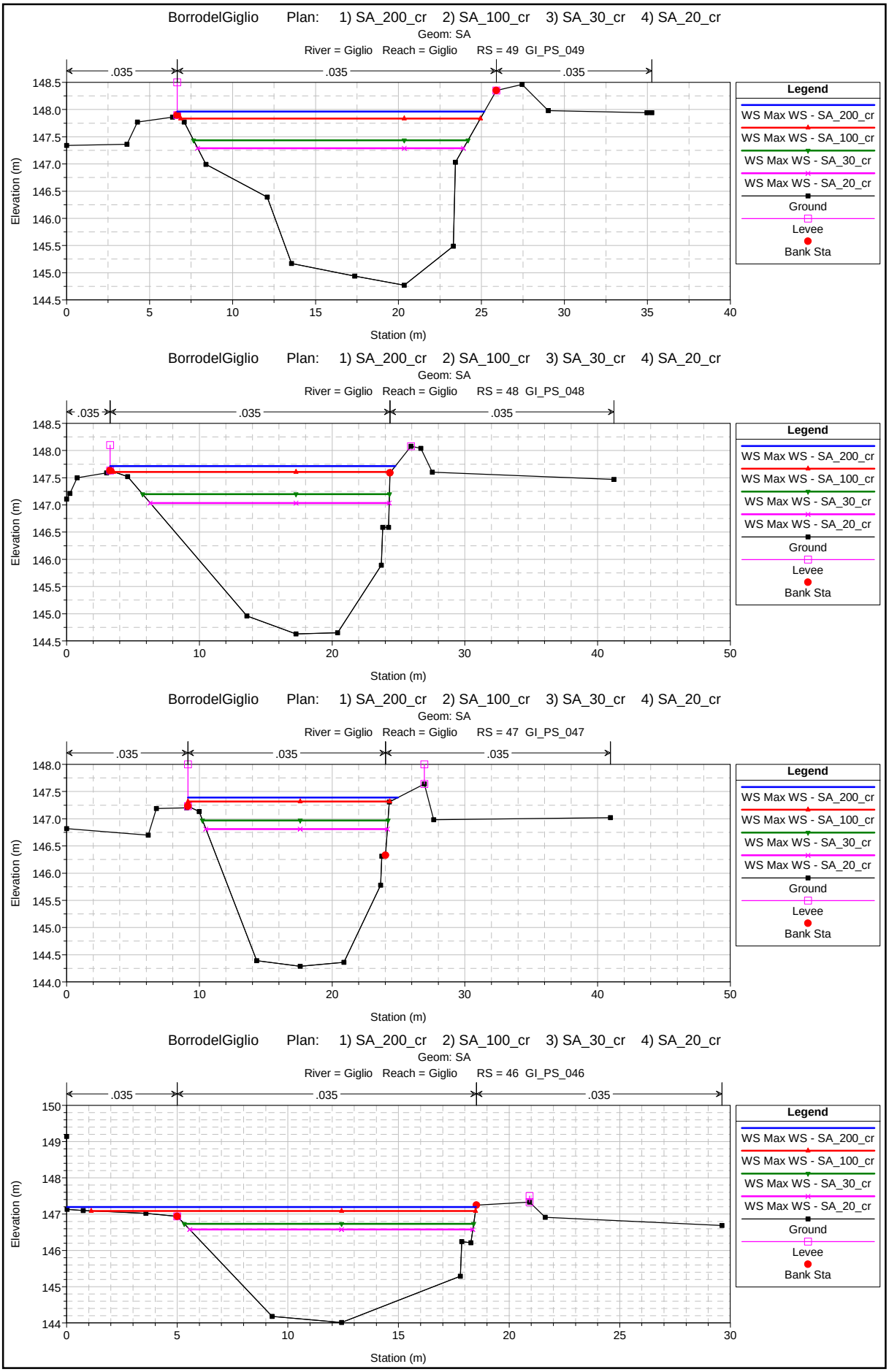
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

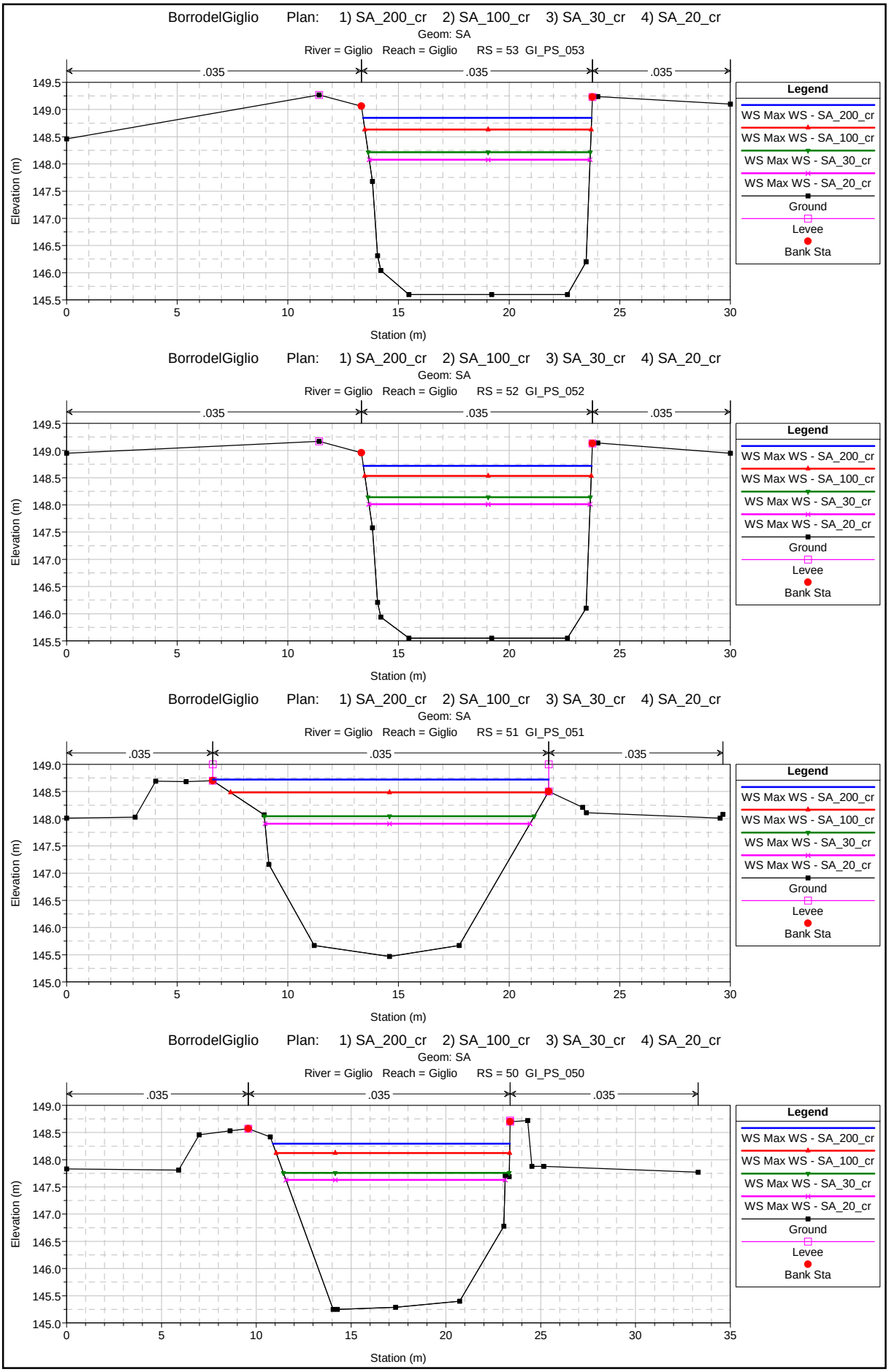
Geom: SA

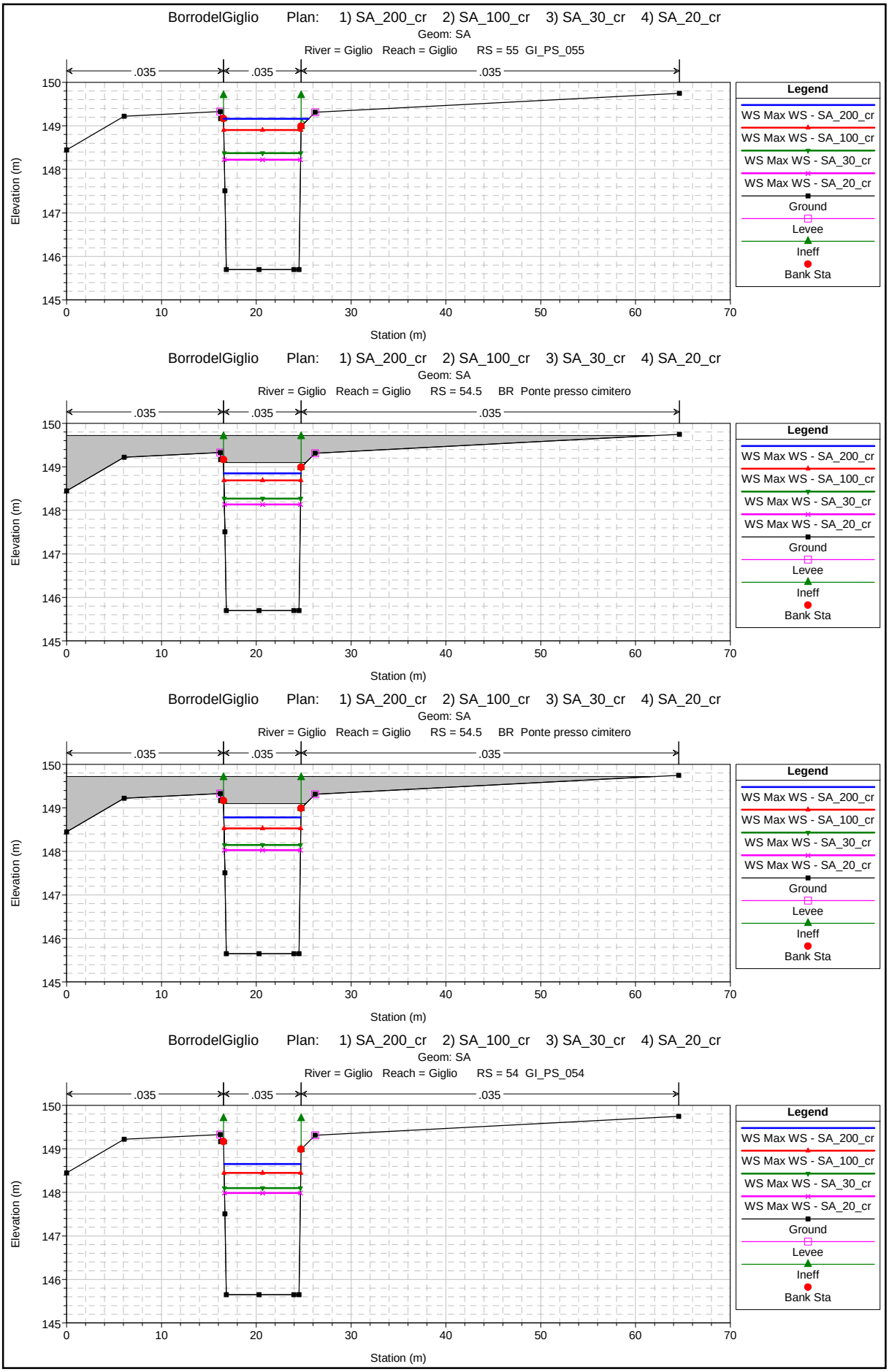
River = Giglio Reach = Giglio RS = 38.5 BR Ponte RFI Firenze-Roma

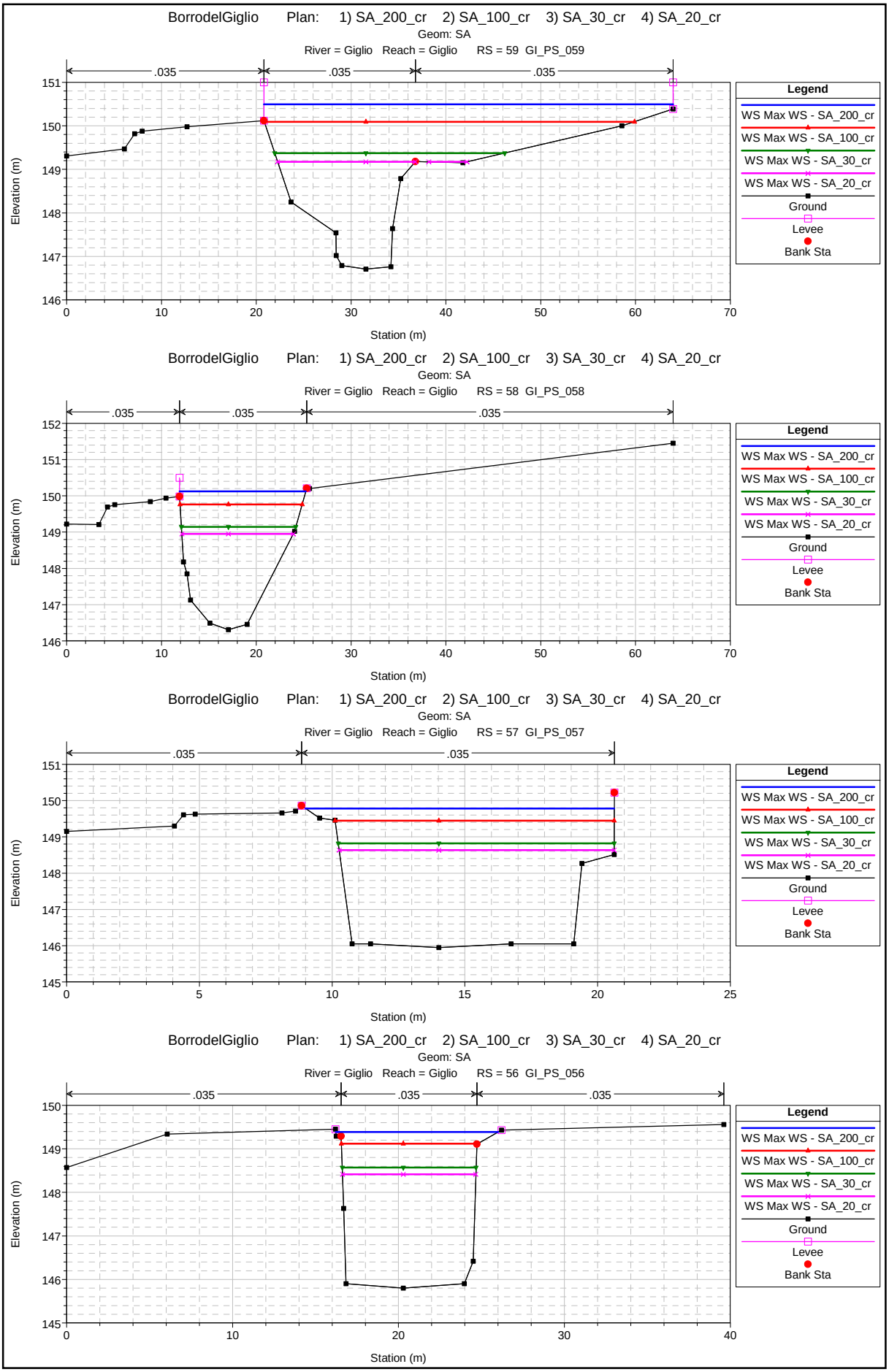


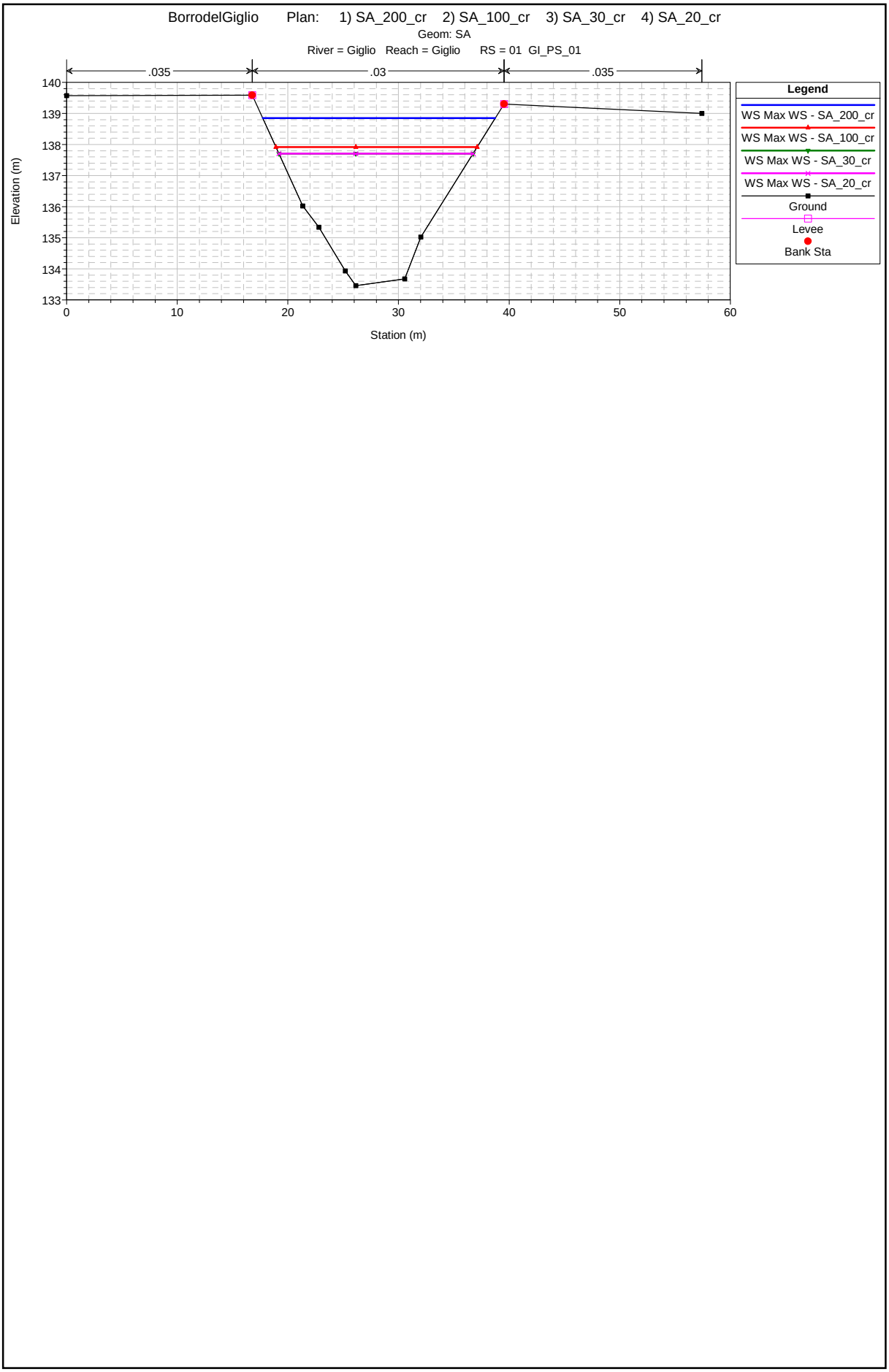

BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 45 GI_PS_045
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 44 GI_PS_044
.035
.065
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 43 GI_PS_043
.035
.065
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 42 GI_PS_042
.035
.065
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 49 GI_PS_049
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 48 GI_PS_048
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 47 GI_PS_047
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 46 GI_PS_046
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 53 GI_PS_053
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 52 GI_PS_052
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 51 GI_PS_051
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 50 GI_PS_050
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 55 GI_PS_055
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 54.5 BR Ponte presso cimitero
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 54.5 BR Ponte presso cimitero
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 54 GI_PS_054
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta


BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 59 GI_PS_059
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 58 GI_PS_058
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 57 GI_PS_057
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 56 GI_PS_056
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Giglio Reach = Giglio RS = 01 GI_PS_01
.035
.03
.035
Elevation (m)
140
139
138
137
136
135
134
133
0
10
20
30
40
50
60
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	59	Max WS	SA_200_cr	106.78	146.71	150.49		150.65	0.001552	1.94	66.27	43.17	0.38
Giglio	59	Max WS	SA_100_cr	89.49	146.71	150.09		150.30	0.002242	2.12	49.64	39.04	0.45
Giglio	59	Max WS	SA_30_cr	64.87	146.71	149.37		149.70	0.004766	2.55	26.65	24.28	0.63
Giglio	59	Max WS	SA_20_cr	57.87	146.71	149.17		149.52	0.005756	2.61	22.18	18.52	0.68
Giglio	58	Max WS	SA_200_cr	106.74	146.31	150.12		150.57	0.003779	2.95	36.18	13.34	0.57
Giglio	58	Max WS	SA_100_cr	89.49	146.31	149.77		150.18	0.003914	2.84	31.51	12.90	0.58
Giglio	58	Max WS	SA_30_cr	64.87	146.31	149.14		149.52	0.004610	2.73	23.72	12.07	0.62
Giglio	58	Max WS	SA_20_cr	57.87	146.31	148.95		149.32	0.004864	2.69	21.48	11.77	0.64
Giglio	57	Max WS	SA_200_cr	106.38	145.95	149.79		150.24	0.004366	3.00	35.50	11.63	0.55
Giglio	57	Max WS	SA_100_cr	89.49	145.95	149.45		149.85	0.003989	2.82	31.72	10.51	0.52
Giglio	57	Max WS	SA_30_cr	64.87	145.95	148.82		149.16	0.004067	2.58	25.17	10.39	0.53
Giglio	57	Max WS	SA_20_cr	57.86	145.95	148.64		148.95	0.004072	2.49	23.26	10.36	0.53
Giglio	56	Max WS	SA_200_cr	103.95	145.80	149.39		150.10	0.006825	3.73	28.01	9.78	0.65
Giglio	56	Max WS	SA_100_cr	89.49	145.80	149.12		149.74	0.006530	3.49	25.65	8.22	0.63
Giglio	56	Max WS	SA_30_cr	64.87	145.80	148.57		149.05	0.005813	3.06	21.19	8.07	0.60
Giglio	56	Max WS	SA_20_cr	57.86	145.80	148.41		148.84	0.005503	2.91	19.91	8.04	0.59
Giglio	55	Max WS	SA_200_cr	105.16	145.70	149.16	148.35	149.91	0.007657	3.84	27.42	8.98	0.67
Giglio	55	Max WS	SA_100_cr	89.49	145.70	148.90	148.09	149.54	0.007002	3.53	25.32	8.15	0.64
Giglio	55	Max WS	SA_30_cr	64.86	145.70	148.37	147.63	148.86	0.006177	3.09	21.00	8.07	0.61
Giglio	55	Max WS	SA_20_cr	57.86	145.70	148.22	147.49	148.66	0.005810	2.92	19.79	8.04	0.60
Giglio	54.5			Bridge									
Giglio	54	Max WS	SA_200_cr	107.01	145.65	148.65		149.69	0.012061	4.52	23.67	8.11	0.84
Giglio	54	Max WS	SA_100_cr	89.49	145.65	148.45		149.29	0.010299	4.06	22.02	8.08	0.79
Giglio	54	Max WS	SA_30_cr	64.86	145.65	148.10		148.68	0.007940	3.38	19.21	8.02	0.70
Giglio	54	Max WS	SA_20_cr	57.86	145.65	147.99		148.50	0.007257	3.16	18.29	8.01	0.67
Giglio	53	Max WS	SA_200_cr	106.95	145.60	148.85		149.45	0.005609	3.45	31.00	10.34	0.64
Giglio	53	Max WS	SA_100_cr	89.49	145.60	148.63		149.12	0.004823	3.11	28.80	10.24	0.59
Giglio	53	Max WS	SA_30_cr	64.86	145.60	148.21		148.57	0.003976	2.64	24.56	10.05	0.54
Giglio	53	Max WS	SA_20_cr	57.86	145.60	148.08		148.40	0.003724	2.49	23.19	9.98	0.52
Giglio	52	Max WS	SA_200_cr	106.91	145.55	148.72		149.35	0.005994	3.53	30.30	10.32	0.66

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	52	Max WS	SA_100_cr	89.49	145.55	148.53		149.04	0.005029	3.15	28.41	10.24	0.60
Giglio	52	Max WS	SA_30_cr	64.86	145.55	148.14		148.50	0.004055	2.66	24.42	10.06	0.54
Giglio	52	Max WS	SA_20_cr	57.86	145.55	148.01		148.33	0.003771	2.50	23.12	10.00	0.53
Giglio	51.9			Lat Struct									
Giglio	51.8			Lat Struct									
Giglio	51	Max WS	SA_200_cr	106.67	145.47	148.72		149.25	0.005531	3.23	33.03	15.19	0.70
Giglio	51	Max WS	SA_100_cr	89.49	145.47	148.48		148.95	0.005221	3.04	29.47	14.36	0.68
Giglio	51	Max WS	SA_30_cr	64.86	145.47	148.04		148.43	0.004631	2.74	23.67	12.20	0.63
Giglio	51	Max WS	SA_20_cr	57.86	145.47	147.91		148.26	0.004514	2.63	22.04	11.98	0.62
Giglio	50	Max WS	SA_200_cr	106.03	145.25	148.30		148.93	0.006255	3.52	30.16	12.50	0.72
Giglio	50	Max WS	SA_100_cr	89.49	145.25	148.12		148.64	0.005511	3.20	27.98	12.31	0.68
Giglio	50	Max WS	SA_30_cr	64.86	145.25	147.76		148.14	0.004733	2.75	23.57	11.91	0.62
Giglio	50	Max WS	SA_20_cr	57.85	145.25	147.63		147.98	0.004441	2.62	22.08	11.56	0.61
Giglio	49	Max WS	SA_200_cr	105.94	144.77	147.96		148.35	0.004155	2.75	38.48	18.51	0.61
Giglio	49	Max WS	SA_100_cr	89.49	144.77	147.83		148.15	0.003539	2.48	36.09	18.05	0.56
Giglio	49	Max WS	SA_30_cr	64.84	144.77	147.43		147.69	0.003345	2.22	29.22	16.54	0.53
Giglio	49	Max WS	SA_20_cr	57.85	144.77	147.29		147.53	0.003375	2.15	26.87	16.02	0.53
Giglio	48	Max WS	SA_200_cr	104.60	144.63	147.72		148.02	0.003275	2.45	42.70	21.49	0.55
Giglio	48	Max WS	SA_100_cr	89.48	144.63	147.61		147.86	0.002820	2.21	40.40	20.87	0.51
Giglio	48	Max WS	SA_30_cr	64.83	144.63	147.20		147.40	0.002613	2.00	32.45	18.60	0.48
Giglio	48	Max WS	SA_20_cr	57.84	144.63	147.03		147.23	0.002731	1.96	29.45	18.00	0.49
Giglio	47	Max WS	SA_200_cr	101.02	144.29	147.39		147.83	0.004086	2.95	34.39	15.82	0.62
Giglio	47	Max WS	SA_100_cr	88.65	144.29	147.31		147.68	0.003502	2.68	33.20	15.21	0.57
Giglio	47	Max WS	SA_30_cr	64.83	144.29	146.97		147.24	0.002905	2.31	28.16	13.98	0.52
Giglio	47	Max WS	SA_20_cr	57.83	144.29	146.81		147.06	0.002940	2.23	25.98	13.68	0.51
Giglio	46	Max WS	SA_200_cr	93.55	144.01	147.19		147.65	0.004637	3.01	31.73	18.49	0.63
Giglio	46	Max WS	SA_100_cr	86.58	144.01	147.09		147.53	0.004625	2.92	29.83	17.37	0.63
Giglio	46	Max WS	SA_30_cr	64.82	144.01	146.74		147.08	0.004359	2.61	24.85	13.08	0.60
Giglio	46	Max WS	SA_20_cr	57.83	144.01	146.58		146.90	0.004438	2.54	22.80	12.79	0.61

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	45	Max WS	SA_200_cr	93.45	143.85	147.23		147.46	0.001880	2.13	43.99	15.28	0.39
Giglio	45	Max WS	SA_100_cr	86.55	143.85	147.13		147.34	0.001795	2.04	42.48	15.04	0.38
Giglio	45	Max WS	SA_30_cr	64.82	143.85	146.77		146.92	0.001514	1.75	37.08	14.77	0.35
Giglio	45	Max WS	SA_20_cr	57.83	143.85	146.60		146.75	0.001474	1.67	34.65	14.74	0.35
Giglio	44.9			Lat Struct									
Giglio	44	Max WS	SA_200_cr	91.51	143.65	147.05		147.34	0.008867	2.42	38.70	17.98	0.46
Giglio	44	Max WS	SA_100_cr	86.53	143.65	146.94		147.23	0.009338	2.42	36.60	17.98	0.47
Giglio	44	Max WS	SA_30_cr	64.82	143.65	146.58		146.82	0.008939	2.19	30.13	17.92	0.46
Giglio	44	Max WS	SA_20_cr	57.82	143.65	146.41		146.64	0.009086	2.12	27.35	13.59	0.46
Giglio	43	Max WS	SA_200_cr	79.81	143.41	146.92		147.06	0.003906	1.70	47.96	20.90	0.32
Giglio	43	Max WS	SA_100_cr	84.67	143.41	146.60		146.82	0.006738	2.08	41.31	20.88	0.42
Giglio	43	Max WS	SA_30_cr	64.81	143.41	146.25		146.43	0.006363	1.87	34.65	15.74	0.40
Giglio	43	Max WS	SA_20_cr	57.82	143.41	146.08		146.25	0.006290	1.80	32.10	15.42	0.40
Giglio	42	Max WS	SA_200_cr	90.88	143.19	146.67		146.81	0.004456	1.69	53.64	22.54	0.35
Giglio	42	Max WS	SA_100_cr	81.20	143.19	146.35		146.51	0.005533	1.74	46.60	22.29	0.38
Giglio	42	Max WS	SA_30_cr	64.81	143.19	145.94		146.09	0.006300	1.72	37.67	20.40	0.40
Giglio	42	Max WS	SA_20_cr	57.82	143.19	145.76		145.91	0.006562	1.69	34.16	19.60	0.41
Giglio	41	Max WS	SA_200_cr	95.34	142.76	146.02		146.47	0.010166	3.00	32.19	14.06	0.59
Giglio	41	Max WS	SA_100_cr	81.20	142.76	145.74		146.16	0.010707	2.89	28.25	13.50	0.60
Giglio	41	Max WS	SA_30_cr	64.81	142.76	145.23		145.67	0.013850	2.94	22.07	11.48	0.68
Giglio	41	Max WS	SA_20_cr	57.81	142.76	145.05		145.47	0.014460	2.89	20.03	11.17	0.69
Giglio	40	Max WS	SA_200_cr	95.34	142.60	146.12		146.28	0.002764	1.81	54.11	20.25	0.31
Giglio	40	Max WS	SA_100_cr	81.20	142.60	145.81		145.96	0.002811	1.71	48.14	18.48	0.31
Giglio	40	Max WS	SA_30_cr	64.81	142.60	145.26		145.40	0.003438	1.67	38.82	15.54	0.33
Giglio	40	Max WS	SA_20_cr	57.81	142.60	145.06		145.19	0.003508	1.62	35.75	14.74	0.33
Giglio	39	Max WS	SA_200_cr	95.34	142.44	146.01	144.05	146.17	0.008819	1.79	53.22	20.52	0.30
Giglio	39	Max WS	SA_100_cr	81.20	142.44	145.71	143.89	145.85	0.008590	1.67	48.71	18.83	0.30
Giglio	39	Max WS	SA_30_cr	64.81	142.44	145.13	143.69	145.27	0.010387	1.61	40.14	15.82	0.32
Giglio	39	Max WS	SA_20_cr	57.81	142.44	144.93	143.60	145.05	0.010594	1.56	37.04	14.98	0.32
Giglio	38.5			Bridge									

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	38	Max WS	SA_200_cr	95.31	142.35	144.62		145.02	0.037361	2.80	34.03	14.99	0.59
Giglio	38	Max WS	SA_100_cr	81.20	142.35	144.36		144.73	0.039690	2.70	30.02	14.99	0.61
Giglio	38	Max WS	SA_30_cr	64.80	142.35	144.06		144.39	0.041227	2.53	25.60	14.99	0.62
Giglio	38	Max WS	SA_20_cr	57.79	142.35	143.93		144.24	0.041656	2.44	23.70	14.99	0.62
Giglio	37	Max WS	SA_200_cr	95.27	142.20	144.18		144.70	0.005079	3.21	29.71	15.03	0.73
Giglio	37	Max WS	SA_100_cr	81.19	142.20	143.83		144.39	0.006742	3.32	24.42	15.02	0.83
Giglio	37	Max WS	SA_30_cr	64.79	142.20	143.50		144.06	0.008601	3.32	19.54	15.02	0.93
Giglio	37	Max WS	SA_20_cr	56.89	142.20	143.42		143.91	0.008239	3.12	18.24	15.02	0.90
Giglio	36	Max WS	SA_200_cr	95.29	141.85	144.45		144.62	0.001161	1.84	51.76	20.02	0.37
Giglio	36	Max WS	SA_100_cr	81.19	141.85	144.09		144.26	0.001340	1.82	44.50	19.99	0.39
Giglio	36	Max WS	SA_30_cr	64.78	141.85	143.66		143.83	0.001652	1.80	35.98	19.96	0.43
Giglio	36	Max WS	SA_20_cr	58.37	141.85	143.48		143.65	0.001857	1.80	32.44	19.94	0.45
Giglio	35	Max WS	SA_200_cr	95.29	141.70	144.44	143.03	144.60	0.000534	1.75	54.46	19.96	0.34
Giglio	35	Max WS	SA_100_cr	81.19	141.70	144.07	142.89	144.22	0.000602	1.72	47.16	19.93	0.36
Giglio	35	Max WS	SA_30_cr	64.78	141.70	143.64	142.73	143.78	0.000718	1.68	38.51	19.90	0.39
Giglio	35	Max WS	SA_20_cr	58.07	141.70	143.45	142.66	143.59	0.000792	1.67	34.80	19.89	0.40
Giglio	34.5			Bridge									
Giglio	34	Max WS	SA_200_cr	95.29	141.60	144.39		144.53	0.000475	1.68	56.84	20.86	0.32
Giglio	34	Max WS	SA_100_cr	81.19	141.60	144.04		144.18	0.000521	1.63	49.66	20.74	0.34
Giglio	34	Max WS	SA_30_cr	64.78	141.60	143.62		143.75	0.000604	1.58	40.89	20.59	0.36
Giglio	34	Max WS	SA_20_cr	57.94	141.60	143.43		143.55	0.000659	1.56	37.03	20.52	0.37
Giglio	33	Max WS	SA_200_cr	95.29	141.50	144.37		144.50	0.000810	1.63	58.47	20.89	0.31
Giglio	33	Max WS	SA_100_cr	81.18	141.50	144.02		144.15	0.000879	1.58	51.25	20.76	0.32
Giglio	33	Max WS	SA_30_cr	64.78	141.50	143.59		143.71	0.001006	1.53	42.38	20.62	0.34
Giglio	33	Max WS	SA_20_cr	57.85	141.50	143.40		143.52	0.001085	1.50	38.46	20.55	0.35
Giglio	32	Max WS	SA_200_cr	95.28	141.00	144.19		144.46	0.001728	2.32	41.47	18.17	0.48
Giglio	32	Max WS	SA_100_cr	81.18	141.00	143.83		144.10	0.002095	2.32	35.01	17.49	0.51
Giglio	32	Max WS	SA_30_cr	64.77	141.00	143.38		143.66	0.002553	2.34	27.73	15.28	0.55
Giglio	32	Max WS	SA_20_cr	57.83	141.00	143.18		143.46	0.002771	2.33	24.78	14.57	0.57

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	31	Max WS	SA_200_cr	95.27	140.55	143.65		144.16	0.003813	3.15	30.23	9.75	0.57
Giglio	31	Max WS	SA_100_cr	81.18	140.55	143.31		143.77	0.003862	3.02	26.88	9.75	0.58
Giglio	31	Max WS	SA_30_cr	64.77	140.55	142.88		143.29	0.003998	2.85	22.70	9.75	0.60
Giglio	31	Max WS	SA_20_cr	57.81	140.55	142.69		143.08	0.004097	2.78	20.82	9.75	0.61
Giglio	30	Max WS	SA_200_cr	95.28	140.40	143.63		144.04	0.002911	2.85	33.48	10.37	0.51
Giglio	30	Max WS	SA_100_cr	81.18	140.40	143.28		143.66	0.002928	2.72	29.85	10.37	0.51
Giglio	30	Max WS	SA_30_cr	64.77	140.40	142.84		143.18	0.003004	2.56	25.29	10.37	0.52
Giglio	30	Max WS	SA_20_cr	57.80	140.40	142.64		142.96	0.003066	2.49	23.23	10.37	0.53
Giglio	29	Max WS	SA_200_cr	95.27	140.23	143.69	142.15	143.99	0.001003	2.40	39.64	11.46	0.41
Giglio	29	Max WS	SA_100_cr	81.18	140.23	143.33	141.95	143.60	0.000994	2.28	35.54	11.46	0.41
Giglio	29	Max WS	SA_30_cr	64.77	140.23	142.89	141.71	143.12	0.000993	2.13	30.40	11.45	0.42
Giglio	29	Max WS	SA_20_cr	57.80	140.23	142.68	141.60	142.90	0.000997	2.06	28.08	11.45	0.42
Giglio	28.5			Bridge									
Giglio	28	Max WS	SA_200_cr	95.27	140.10	143.75		143.96	0.000679	2.07	46.03	12.65	0.35
Giglio	28	Max WS	SA_100_cr	81.18	140.10	143.38		143.58	0.000666	1.96	41.45	12.65	0.35
Giglio	28	Max WS	SA_30_cr	64.77	140.10	142.93		143.10	0.000654	1.81	35.69	12.65	0.34
Giglio	28	Max WS	SA_20_cr	57.79	140.10	142.72		142.88	0.000650	1.75	33.09	12.65	0.34
Giglio	27	Max WS	SA_200_cr	95.28	140.00	143.69		143.94	0.001422	2.18	43.80	11.87	0.36
Giglio	27	Max WS	SA_100_cr	81.18	140.00	143.34		143.55	0.001379	2.05	39.56	11.86	0.36
Giglio	27	Max WS	SA_30_cr	64.77	140.00	142.89		143.07	0.001331	1.89	34.22	11.86	0.36
Giglio	27	Max WS	SA_20_cr	57.79	140.00	142.68		142.85	0.001311	1.82	31.80	11.86	0.35
Giglio	26	Max WS	SA_200_cr	95.27	139.90	143.45		143.88	0.003035	2.92	32.64	9.20	0.49
Giglio	26	Max WS	SA_100_cr	81.18	139.90	143.12		143.50	0.002891	2.74	29.59	9.20	0.49
Giglio	26	Max WS	SA_30_cr	64.77	139.90	142.70		143.02	0.002723	2.52	25.74	9.20	0.48
Giglio	26	Max WS	SA_20_cr	57.79	139.90	142.51		142.80	0.002647	2.41	23.99	9.20	0.48
Giglio	25	Max WS	SA_200_cr	95.27	139.85	142.98		143.80	0.007011	4.00	23.81	7.60	0.72
Giglio	25	Max WS	SA_100_cr	81.18	139.85	142.70		143.42	0.006566	3.74	21.70	7.60	0.71
Giglio	25	Max WS	SA_30_cr	64.76	139.85	142.35		142.94	0.006052	3.41	18.99	7.60	0.69
Giglio	25	Max WS	SA_20_cr	57.78	139.85	142.19		142.73	0.005819	3.25	17.76	7.60	0.68
Giglio	24	Max WS	SA_200_cr	95.27	139.75	142.54		143.59	0.009850	4.53	21.03	7.54	0.87

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	24	Max WS	SA_100_cr	81.18	139.75	142.30		143.21	0.009185	4.22	19.22	7.54	0.84
Giglio	24	Max WS	SA_30_cr	64.76	139.75	142.00		142.74	0.008404	3.83	16.89	7.54	0.82
Giglio	24	Max WS	SA_20_cr	57.78	139.75	141.86		142.53	0.008034	3.65	15.84	7.54	0.80
Giglio	23	Max WS	SA_200_cr	95.27	139.60	142.65		143.04	0.002772	2.77	34.43	11.32	0.51
Giglio	23	Max WS	SA_100_cr	81.18	139.60	142.37		142.72	0.002660	2.60	31.25	11.31	0.50
Giglio	23	Max WS	SA_30_cr	64.76	139.60	142.00		142.29	0.002574	2.39	27.07	11.30	0.49
Giglio	23	Max WS	SA_20_cr	57.78	139.60	141.83		142.10	0.002538	2.30	25.17	11.30	0.49
Giglio	22	Max WS	SA_200_cr	95.27	139.50	142.42		142.92	0.003763	3.11	30.59	10.59	0.58
Giglio	22	Max WS	SA_100_cr	81.18	139.50	142.16		142.60	0.003585	2.92	27.82	10.56	0.57
Giglio	22	Max WS	SA_30_cr	64.76	139.50	141.81		142.18	0.003458	2.69	24.12	10.53	0.57
Giglio	22	Max WS	SA_20_cr	57.78	139.50	141.65		141.99	0.003405	2.58	22.43	10.51	0.56
Giglio	21	Max WS	SA_200_cr	95.27	139.22	142.33		142.73	0.002851	2.81	33.96	10.96	0.51
Giglio	21	Max WS	SA_100_cr	81.18	139.22	142.08		142.42	0.002652	2.61	31.15	10.96	0.49
Giglio	21	Max WS	SA_30_cr	64.76	139.22	141.73		142.01	0.002468	2.37	27.32	10.96	0.48
Giglio	21	Max WS	SA_20_cr	57.77	139.22	141.57		141.83	0.002384	2.26	25.57	10.96	0.47
Giglio	20	Max WS	SA_200_cr	95.27	139.20	142.22		142.65	0.003136	2.90	32.81	10.93	0.53
Giglio	20	Max WS	SA_100_cr	81.17	139.20	141.97		142.34	0.002908	2.69	30.13	10.92	0.52
Giglio	20	Max WS	SA_30_cr	64.75	139.20	141.63		141.94	0.002711	2.45	26.42	10.90	0.50
Giglio	20	Max WS	SA_20_cr	57.77	139.20	141.48		141.76	0.002620	2.34	24.73	10.90	0.50
Giglio	19	Max WS	SA_200_cr	95.27	139.10	142.04		142.50	0.003415	3.00	31.81	10.86	0.56
Giglio	19	Max WS	SA_100_cr	81.15	139.10	141.81		142.20	0.003120	2.76	29.36	10.85	0.54
Giglio	19	Max WS	SA_30_cr	64.74	139.10	141.49		141.81	0.002877	2.51	25.84	10.84	0.52
Giglio	19	Max WS	SA_20_cr	57.77	139.10	141.34		141.63	0.002765	2.38	24.24	10.84	0.51
Giglio	18	Max WS	SA_200_cr	95.27	139.04	141.89		142.38	0.003729	3.09	30.86	10.83	0.58
Giglio	18	Max WS	SA_100_cr	81.14	139.04	141.69		142.10	0.003358	2.83	28.63	10.83	0.56
Giglio	18	Max WS	SA_30_cr	64.72	139.04	141.38		141.71	0.003070	2.56	25.28	10.83	0.53
Giglio	18	Max WS	SA_20_cr	57.77	139.04	141.23		141.54	0.002941	2.43	23.74	10.83	0.52
Giglio	17	Max WS	SA_200_cr	95.27	139.00	141.74		142.29	0.004469	3.30	28.88	10.60	0.64
Giglio	17	Max WS	SA_100_cr	81.13	139.00	141.56		142.02	0.003949	3.01	26.98	10.60	0.60
Giglio	17	Max WS	SA_30_cr	64.70	139.00	141.27		141.64	0.003578	2.71	23.89	10.59	0.58
Giglio	17	Max WS	SA_20_cr	57.77	139.00	141.13		141.47	0.003418	2.57	22.47	10.59	0.56

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	16	Max WS	SA_200_cr	95.27	138.95	141.32		142.23	0.008701	4.22	22.55	10.34	0.91
Giglio	16	Max WS	SA_100_cr	81.03	138.95	141.17		141.93	0.007734	3.85	21.02	10.31	0.86
Giglio	16	Max WS	SA_30_cr	64.63	138.95	140.92		141.55	0.007302	3.51	18.40	10.26	0.84
Giglio	16	Max WS	SA_20_cr	57.77	138.95	140.80		141.38	0.007145	3.36	17.19	10.24	0.83
Giglio	15	Max WS	SA_200_cr	95.27	138.81	141.08		141.88	0.007582	3.96	24.03	10.67	0.84
Giglio	15	Max WS	SA_100_cr	81.83	138.81	140.99		141.63	0.006374	3.56	22.99	10.66	0.77
Giglio	15	Max WS	SA_30_cr	65.33	138.81	140.75		141.27	0.005702	3.19	20.50	10.64	0.73
Giglio	15	Max WS	SA_20_cr	57.76	138.81	140.64		141.10	0.005340	2.99	19.30	10.63	0.71
Giglio	14	Max WS	SA_200_cr	95.26	138.65	141.22	140.55	141.74	0.002301	3.20	29.76	11.60	0.64
Giglio	14	Max WS	SA_100_cr	81.61	138.65	141.11	140.37	141.53	0.001905	2.86	28.56	11.60	0.58
Giglio	14	Max WS	SA_30_cr	65.12	138.65	140.85	140.12	141.18	0.001683	2.55	25.55	11.60	0.55
Giglio	14	Max WS	SA_20_cr	57.77	138.65	140.73	140.01	141.02	0.001570	2.39	24.14	11.60	0.53
Giglio	13.5			Bridge									
Giglio	13	Max WS	SA_200_cr	95.26	138.60	141.18		141.69	0.002275	3.19	29.87	11.60	0.63
Giglio	13	Max WS	SA_100_cr	81.44	138.60	141.08		141.49	0.001856	2.83	28.77	11.60	0.57
Giglio	13	Max WS	SA_30_cr	64.97	138.60	140.83		141.15	0.001624	2.52	25.83	11.60	0.54
Giglio	13	Max WS	SA_20_cr	57.77	138.60	140.71		140.99	0.001508	2.36	24.46	11.60	0.52
Giglio	12	Max WS	SA_200_cr	95.26	138.44	140.77		141.63	0.008246	4.13	23.07	10.02	0.87
Giglio	12	Max WS	SA_100_cr	81.33	138.44	140.78		141.40	0.005922	3.51	23.19	10.02	0.74
Giglio	12	Max WS	SA_30_cr	64.88	138.44	140.61		141.07	0.004680	3.01	21.53	10.00	0.66
Giglio	12	Max WS	SA_20_cr	57.77	138.44	140.53		140.93	0.004156	2.79	20.71	10.00	0.62
Giglio	11	Max WS	SA_200_cr	95.27	138.30	139.28	140.39	144.04	0.108562	9.67	9.85	10.19	3.14
Giglio	11	Max WS	SA_100_cr	81.18	138.30	139.13	140.18	143.97	0.133320	9.75	8.33	10.16	3.44
Giglio	11	Max WS	SA_30_cr	64.80	138.30	138.99	139.92	143.43	0.150803	9.33	6.94	10.12	3.60
Giglio	11	Max WS	SA_20_cr	57.77	138.30	138.94	139.80	143.09	0.155441	9.03	6.40	10.11	3.62
Giglio	10.99			Lat Struct									
Giglio	10	Max WS	SA_200_cr	96.85	135.99	139.21		139.52	0.002229	2.50	38.74	14.40	0.49
Giglio	10	Max WS	SA_100_cr	82.49	135.99	138.86		139.16	0.002429	2.44	33.75	14.21	0.51
Giglio	10	Max WS	SA_30_cr	65.79	135.99	138.53		138.79	0.002390	2.26	29.16	14.03	0.50

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

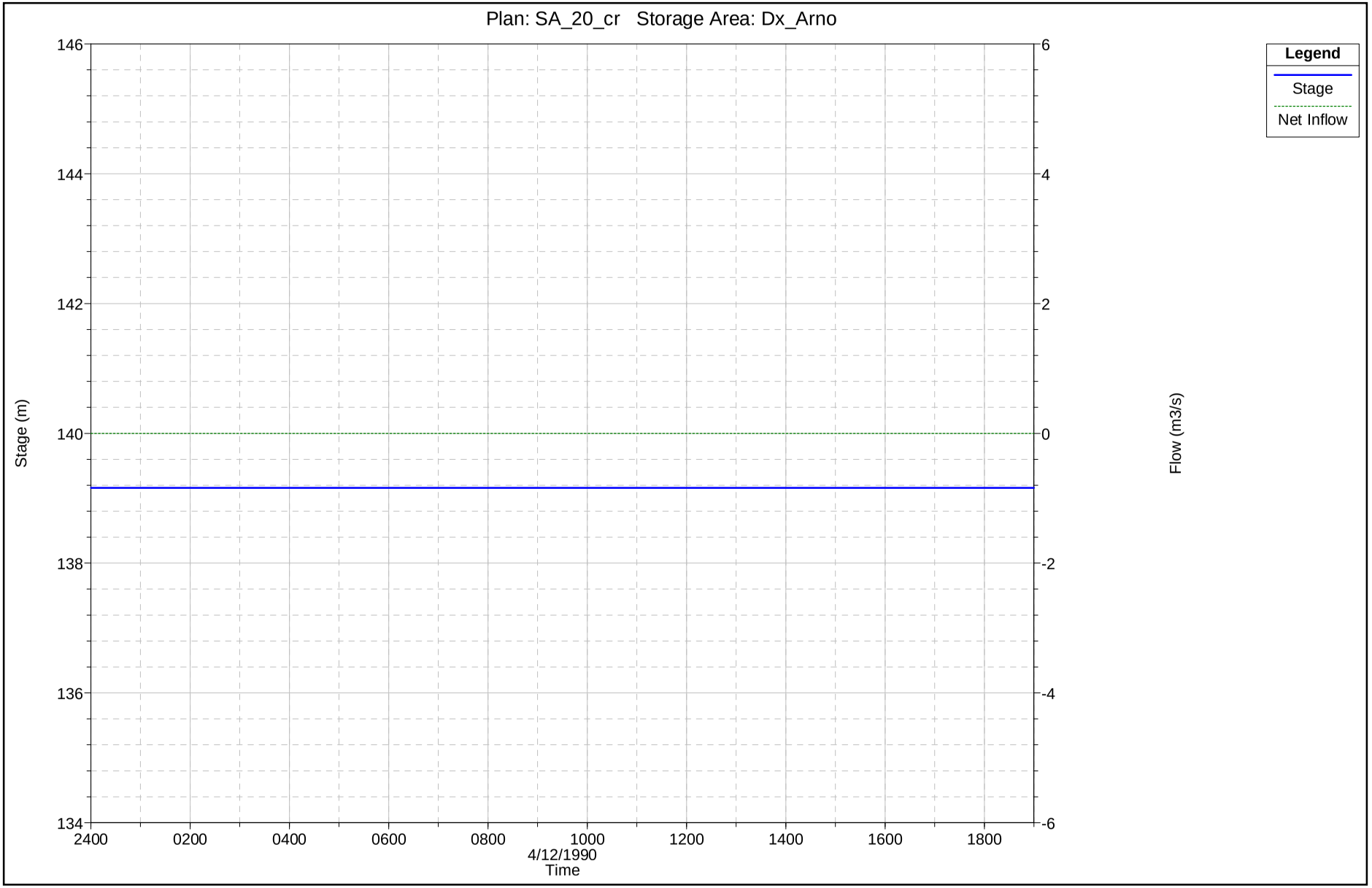
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	10	Max WS	SA_20_cr	58.67	135.99	138.41		138.65	0.002271	2.13	27.49	13.97	0.49
Giglio	09	Max WS	SA_200_cr	96.85	135.76	138.92		139.33	0.003216	2.87	33.79	16.02	0.63
Giglio	09	Max WS	SA_100_cr	82.05	135.76	138.41		138.92	0.005064	3.17	25.86	15.13	0.77
Giglio	09	Max WS	SA_30_cr	65.74	135.76	137.99		138.56	0.007474	3.34	19.68	14.67	0.92
Giglio	09	Max WS	SA_20_cr	58.65	135.76	137.88		138.42	0.007634	3.24	18.12	14.49	0.92
Giglio	08	Max WS	SA_200_cr	60.59	135.29	138.78		138.98	0.001445	1.96	30.99	14.08	0.42
Giglio	08	Max WS	SA_100_cr	82.44	135.29	137.91	137.92	138.79	0.008827	4.15	19.89	11.51	1.01
Giglio	08	Max WS	SA_30_cr	40.50	135.29	137.59		137.91	0.003614	2.48	16.36	10.56	0.63
Giglio	08	Max WS	SA_20_cr	30.49	135.29	137.66		137.82	0.001844	1.79	17.01	10.74	0.45
Giglio	07	Max WS	SA_200_cr	60.60	135.14	138.85		138.95	0.000688	1.41	42.97	18.56	0.30
Giglio	07	Max WS	SA_100_cr	62.37	135.14	137.91		138.17	0.002183	2.23	27.99	14.43	0.51
Giglio	07	Max WS	SA_30_cr	40.49	135.14	137.71		137.84	0.001253	1.61	25.08	13.87	0.38
Giglio	07	Max WS	SA_20_cr	30.49	135.14	137.71		137.78	0.000709	1.21	25.10	13.88	0.29
Giglio	06	Max WS	SA_200_cr	60.59	134.66	138.85		138.93	0.000547	1.30	46.72	18.56	0.26
Giglio	06	Max WS	SA_100_cr	64.10	134.66	137.92		138.13	0.001595	2.01	31.89	14.46	0.43
Giglio	06	Max WS	SA_30_cr	40.49	134.66	137.71		137.81	0.000835	1.40	28.92	13.92	0.31
Giglio	06	Max WS	SA_20_cr	30.49	134.66	137.71		137.77	0.000475	1.06	28.89	13.91	0.23
Giglio	05	Max WS	SA_200_cr	60.60	134.03	138.87		138.92	0.000262	0.95	63.71	24.42	0.19
Giglio	05	Max WS	SA_100_cr	82.41	134.03	138.03		138.20	0.001351	1.86	44.31	21.35	0.41
Giglio	05	Max WS	SA_30_cr	40.49	134.03	137.74		137.80	0.000494	1.06	38.32	20.30	0.25
Giglio	05	Max WS	SA_20_cr	30.49	134.03	137.73		137.76	0.000286	0.80	38.05	20.25	0.19
Giglio	04	Max WS	SA_200_cr	60.60	133.96	138.87		138.91	0.000239	0.92	65.63	24.76	0.18
Giglio	04	Max WS	SA_100_cr	82.40	133.96	138.00		138.17	0.001234	1.80	45.74	21.45	0.39
Giglio	04	Max WS	SA_30_cr	40.49	133.96	137.73		137.78	0.000437	1.01	40.02	20.51	0.23
Giglio	04	Max WS	SA_20_cr	30.48	133.96	137.72		137.75	0.000251	0.77	39.82	20.48	0.18
Giglio	03	Max WS	SA_200_cr	60.58	133.62	138.85		138.91	0.000245	1.01	60.09	20.91	0.18
Giglio	03	Max WS	SA_100_cr	82.40	133.62	137.94		138.13	0.001115	1.90	43.48	17.06	0.38
Giglio	03	Max WS	SA_30_cr	40.48	133.62	137.72		137.77	0.000347	1.02	39.69	16.52	0.21
Giglio	03	Max WS	SA_20_cr	30.47	133.62	137.71		137.74	0.000197	0.77	39.64	16.51	0.16
Giglio	02	Max WS	SA_200_cr	60.58	133.58	138.85		138.90	0.000234	0.99	60.92	19.25	0.18

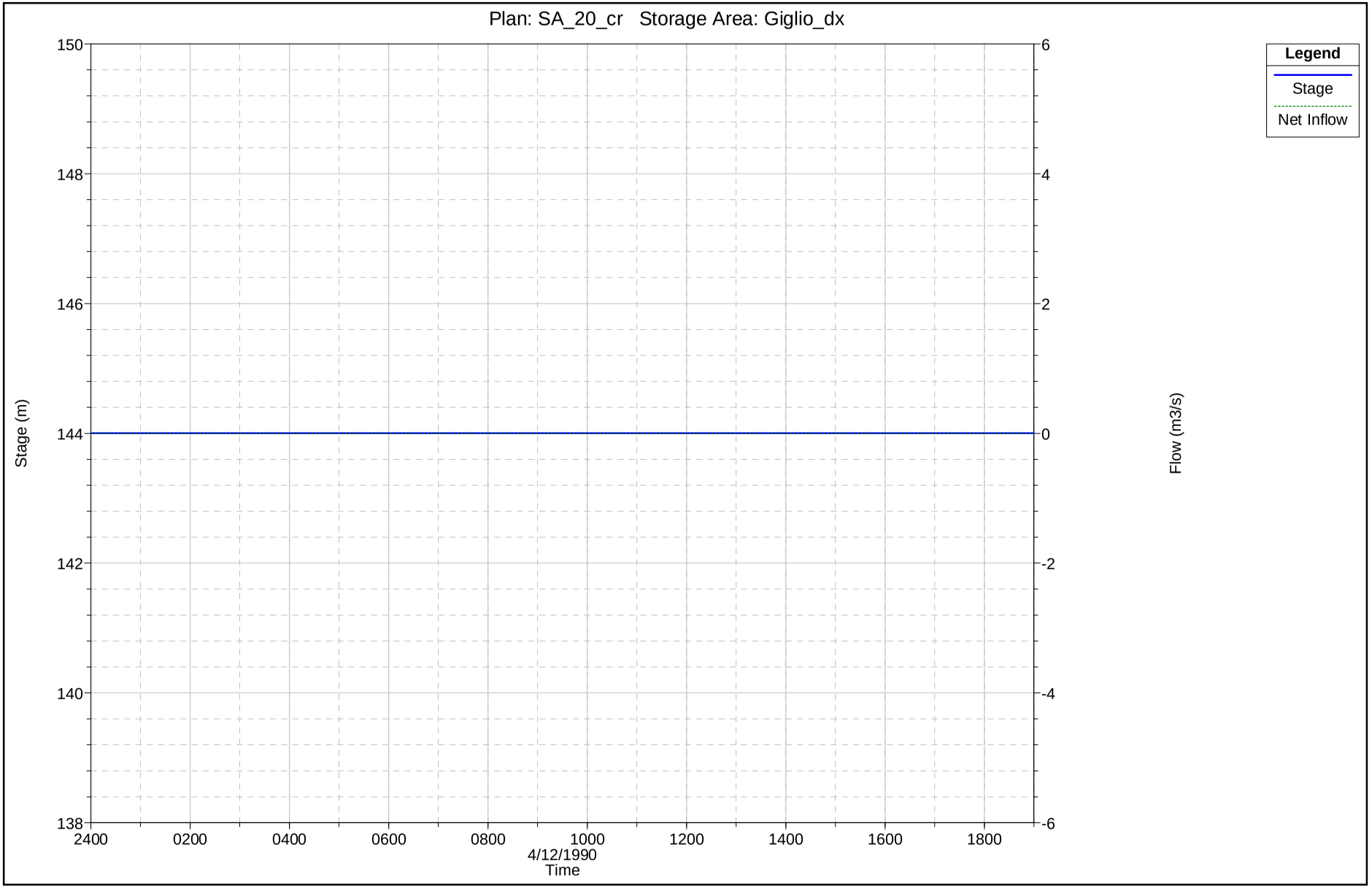
HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

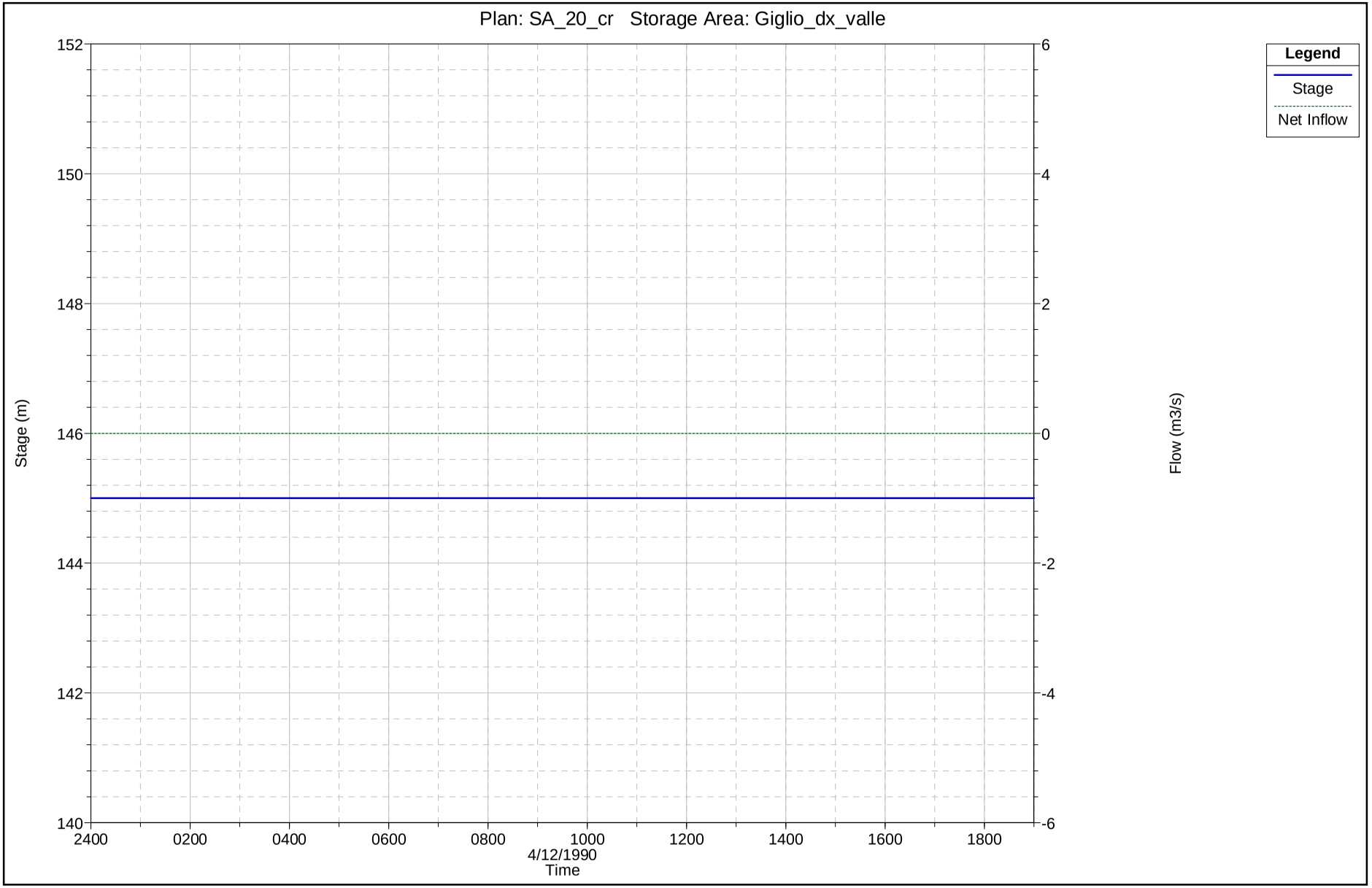
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	02	Max WS	SA_100_cr	61.55	133.58	137.92		138.02	0.000591	1.40	44.05	17.00	0.28
Giglio	02	Max WS	SA_30_cr	40.48	133.58	137.71		137.76	0.000322	1.00	40.56	16.49	0.20
Giglio	02	Max WS	SA_20_cr	30.47	133.58	137.71		137.74	0.000182	0.75	40.58	16.49	0.15
Giglio	01	Max WS	SA_200_cr	60.53	133.46	138.85	135.67	138.89	0.000185	0.90	67.45	21.02	0.16
Giglio	01	Max WS	SA_100_cr	60.50	133.46	137.92	135.67	138.00	0.000431	1.23	49.22	18.19	0.24
Giglio	01	Max WS	SA_30_cr	40.46	133.46	137.71	135.24	137.75	0.000239	0.89	45.46	17.56	0.18
Giglio	01	Max WS	SA_20_cr	30.46	133.46	137.71	134.99	137.73	0.000135	0.67	45.46	17.56	0.13

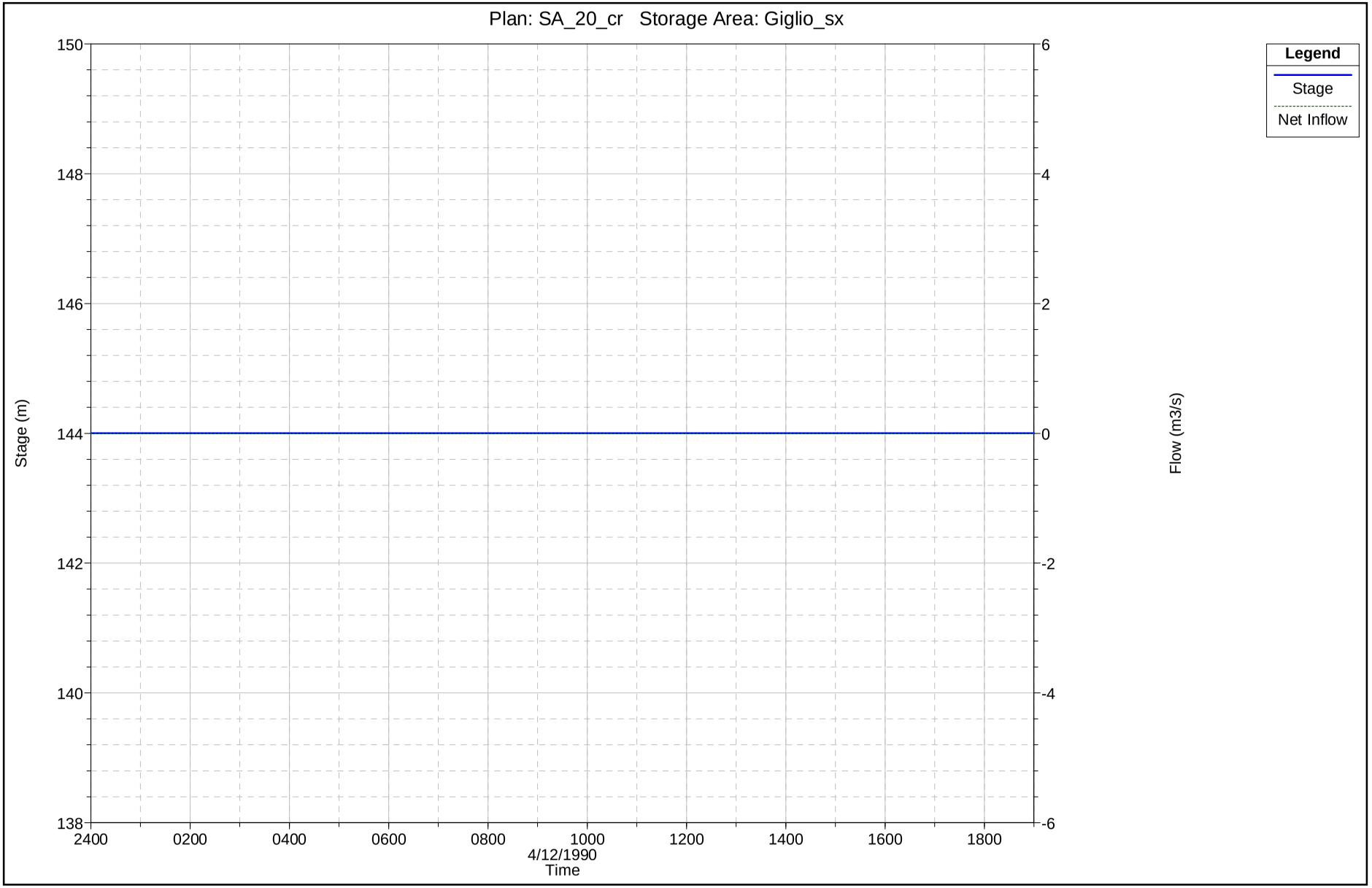
HEC-RAS Profile: Max WS

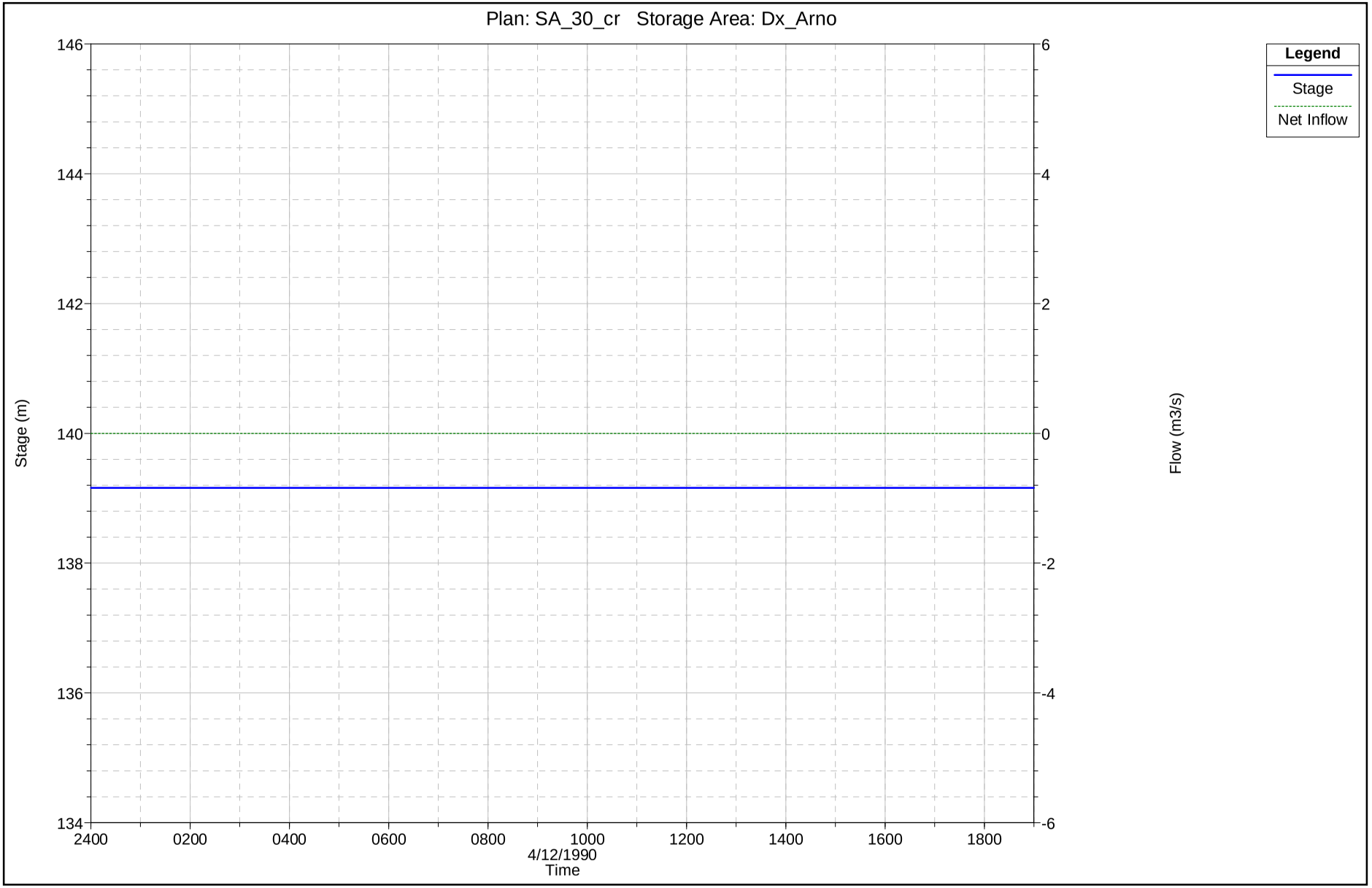
Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
Dx_Arno	Max WS	SA_200_cr	139.16	139.16	0.00	35.88	0.00
Dx_Arno	Max WS	SA_100_cr	139.16	139.16	0.00	35.88	0.00
Dx_Arno	Max WS	SA_30_cr	139.16	139.16	0.00	35.88	0.00
Dx_Arno	Max WS	SA_20_cr	139.16	139.16	0.00	35.88	0.00
Giglio_dx	Max WS	SA_200_cr	144.06	144.00	0.99	50.00	3.02
Giglio_dx	Max WS	SA_100_cr	144.00	144.00	0.00	50.00	0.00
Giglio_dx	Max WS	SA_30_cr	144.00	144.00	0.00	50.00	0.00
Giglio_dx	Max WS	SA_20_cr	144.00	144.00	0.00	50.00	0.00
Giglio_dx_valle	Max WS	SA_200_cr	146.05	145.00	3.30	34.01	10.80
Giglio_dx_valle	Max WS	SA_100_cr	145.05	145.00	0.15	9.00	0.42
Giglio_dx_valle	Max WS	SA_30_cr	145.00	145.00	0.00	9.00	0.00
Giglio_dx_valle	Max WS	SA_20_cr	145.00	145.00	0.00	9.00	0.00
Giglio_sx	Max WS	SA_200_cr	146.88	144.00	2.87	39.01	88.45
Giglio_sx	Max WS	SA_100_cr	145.34	144.00	8.12	28.00	35.44
Giglio_sx	Max WS	SA_30_cr	144.00	144.00	0.00	24.01	0.00
Giglio_sx	Max WS	SA_20_cr	144.00	144.00	0.00	24.01	0.00

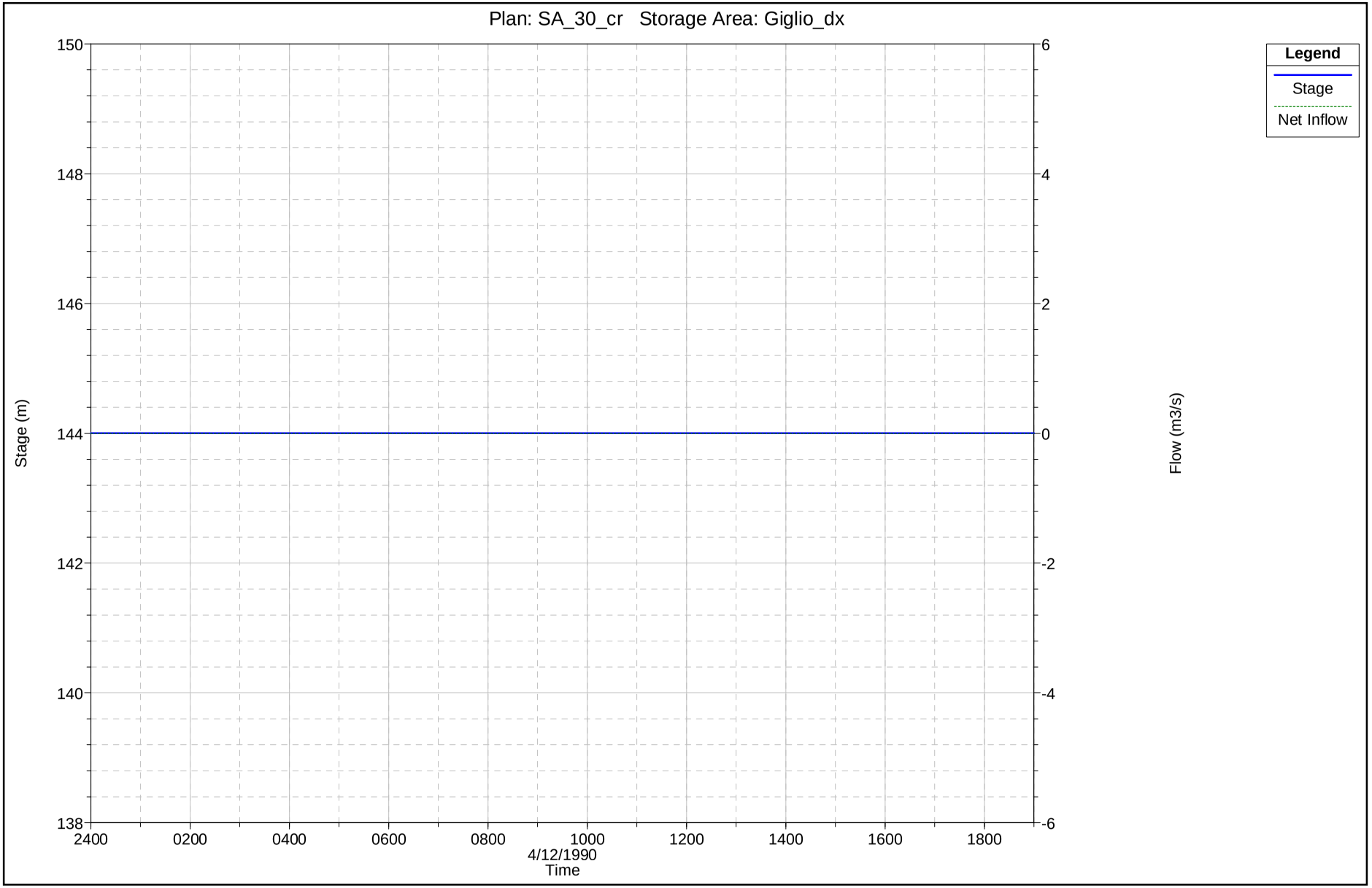

Plan: SA_20_cr Storage Area: Dx_Arno
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
146
144
142
140
138
136
134
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

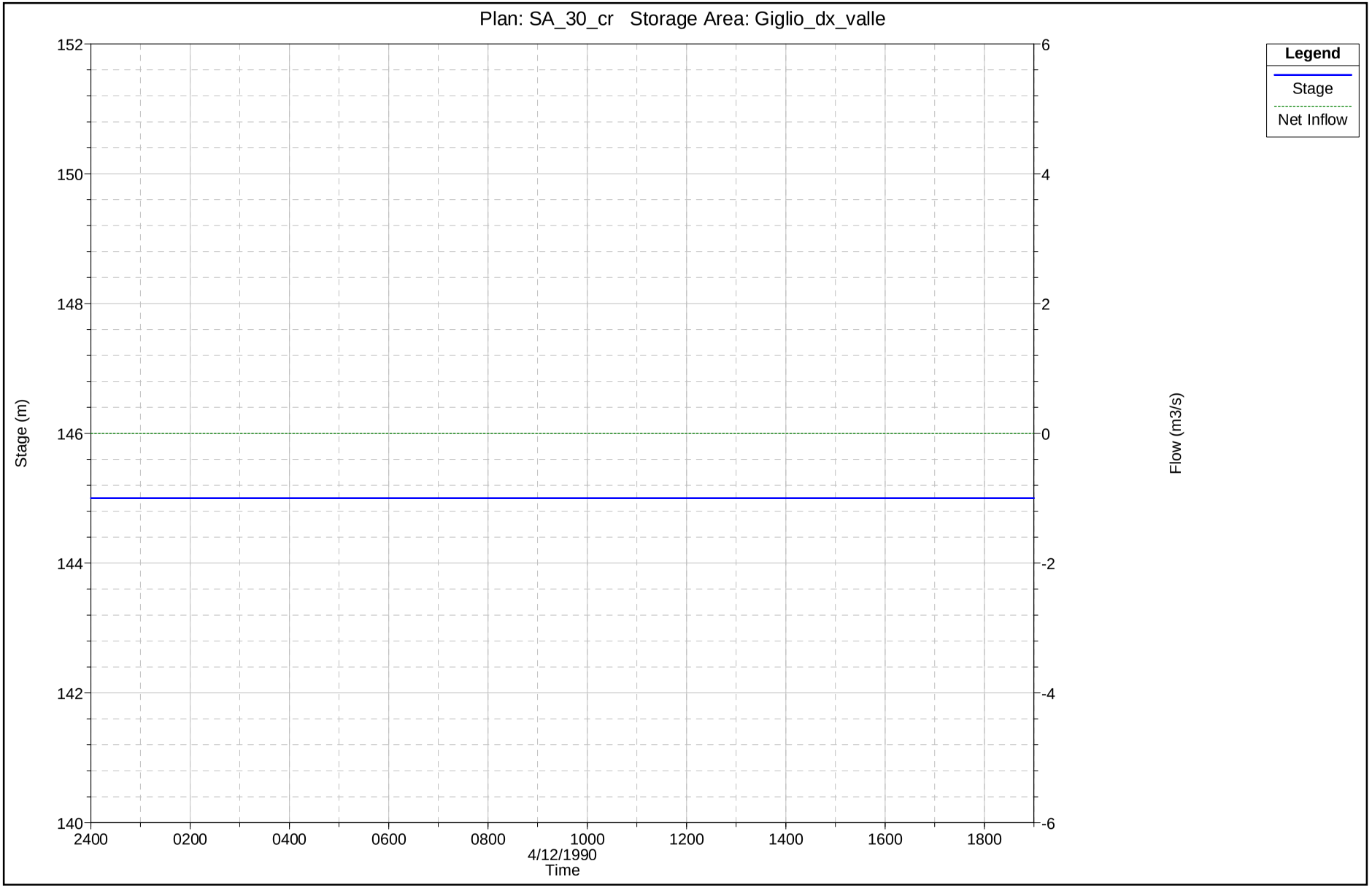

Plan: SA_20_cr Storage Area: Giglio_dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
150
148
146
144
142
140
138
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

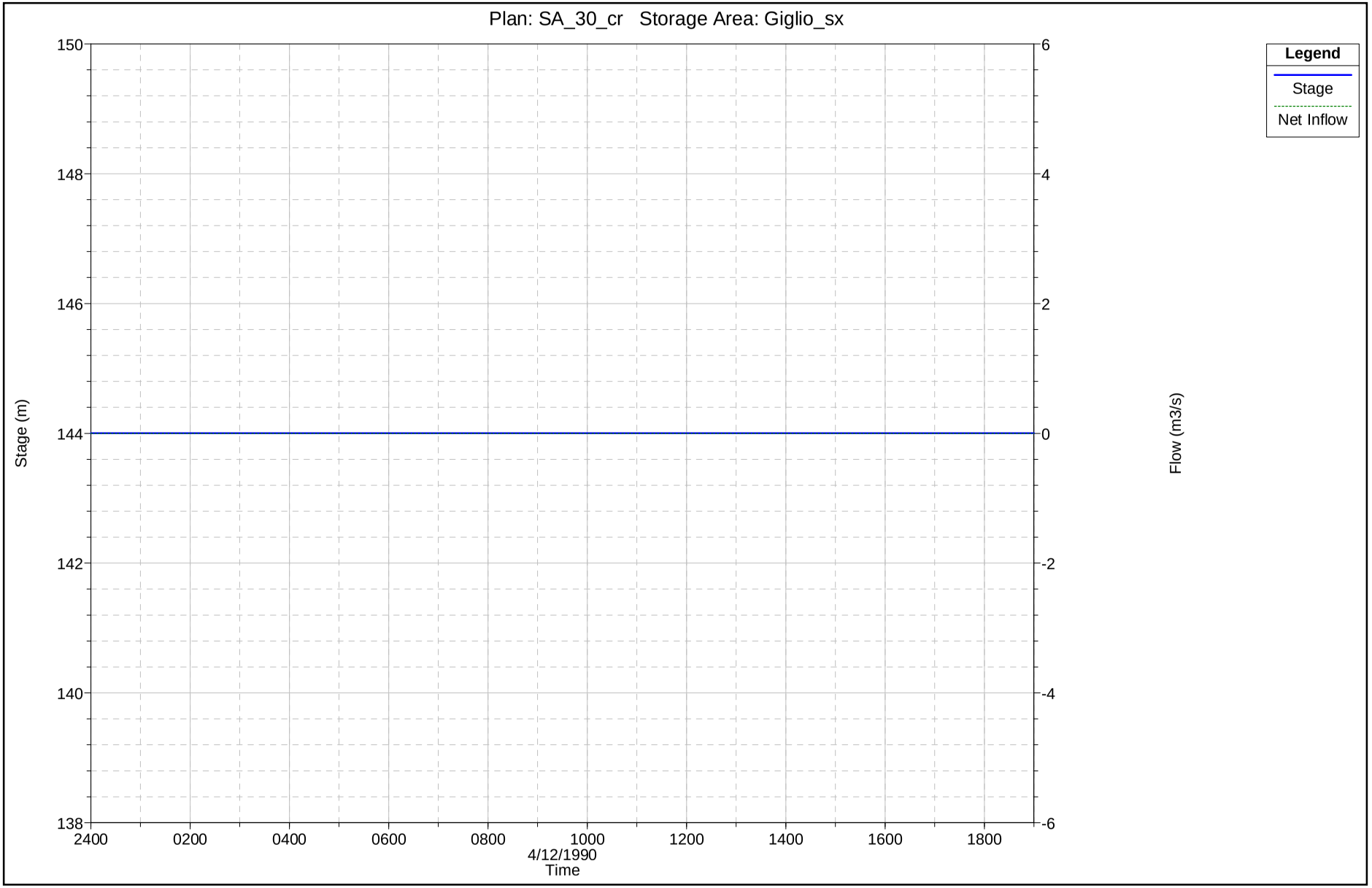

Plan: SA_20_cr Storage Area: Giglio_dx_valle
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
152
150
148
146
144
142
140
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

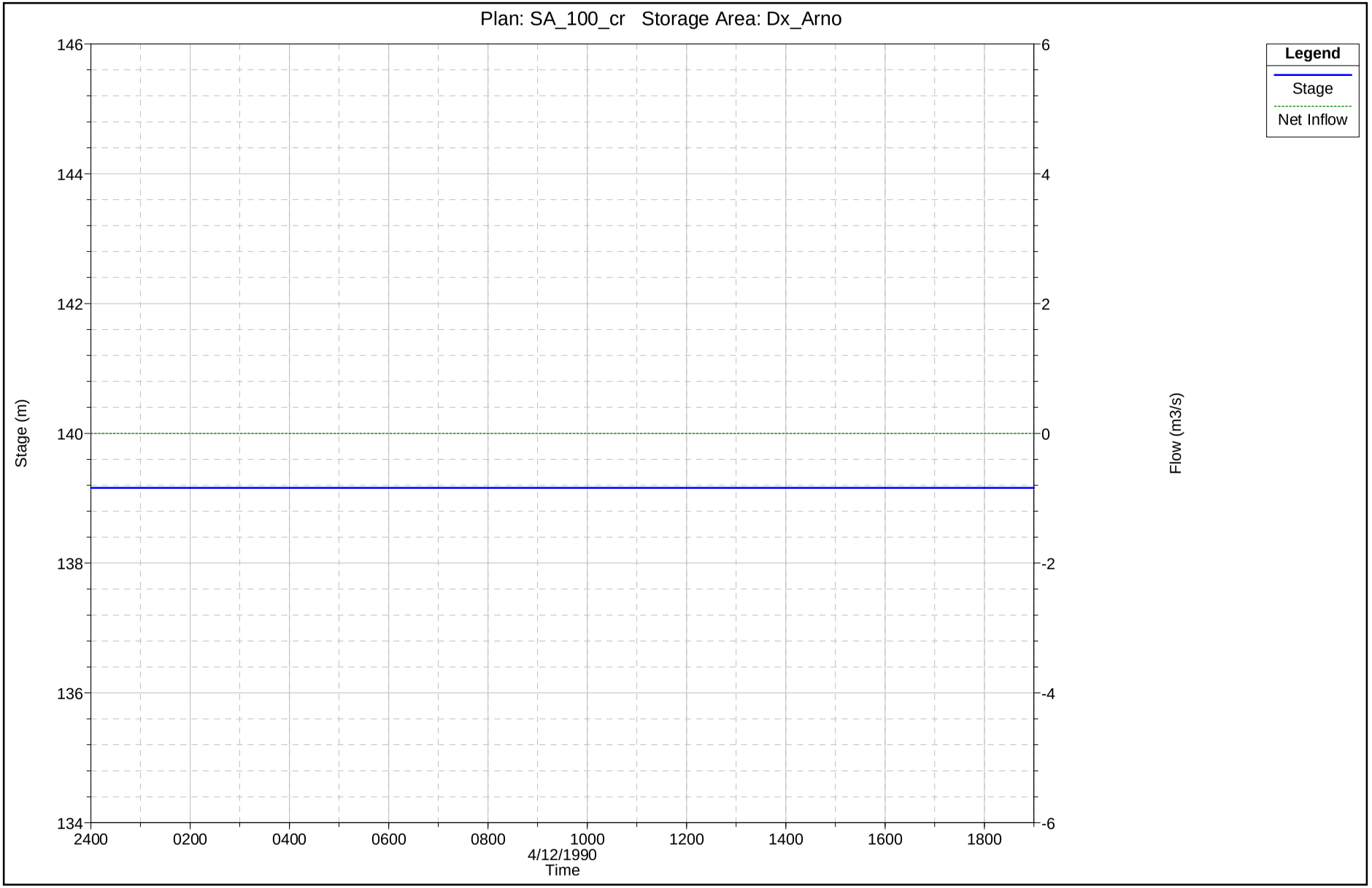

Plan: SA_20_cr Storage Area: Giglio_sx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
150
148
146
144
142
140
138
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

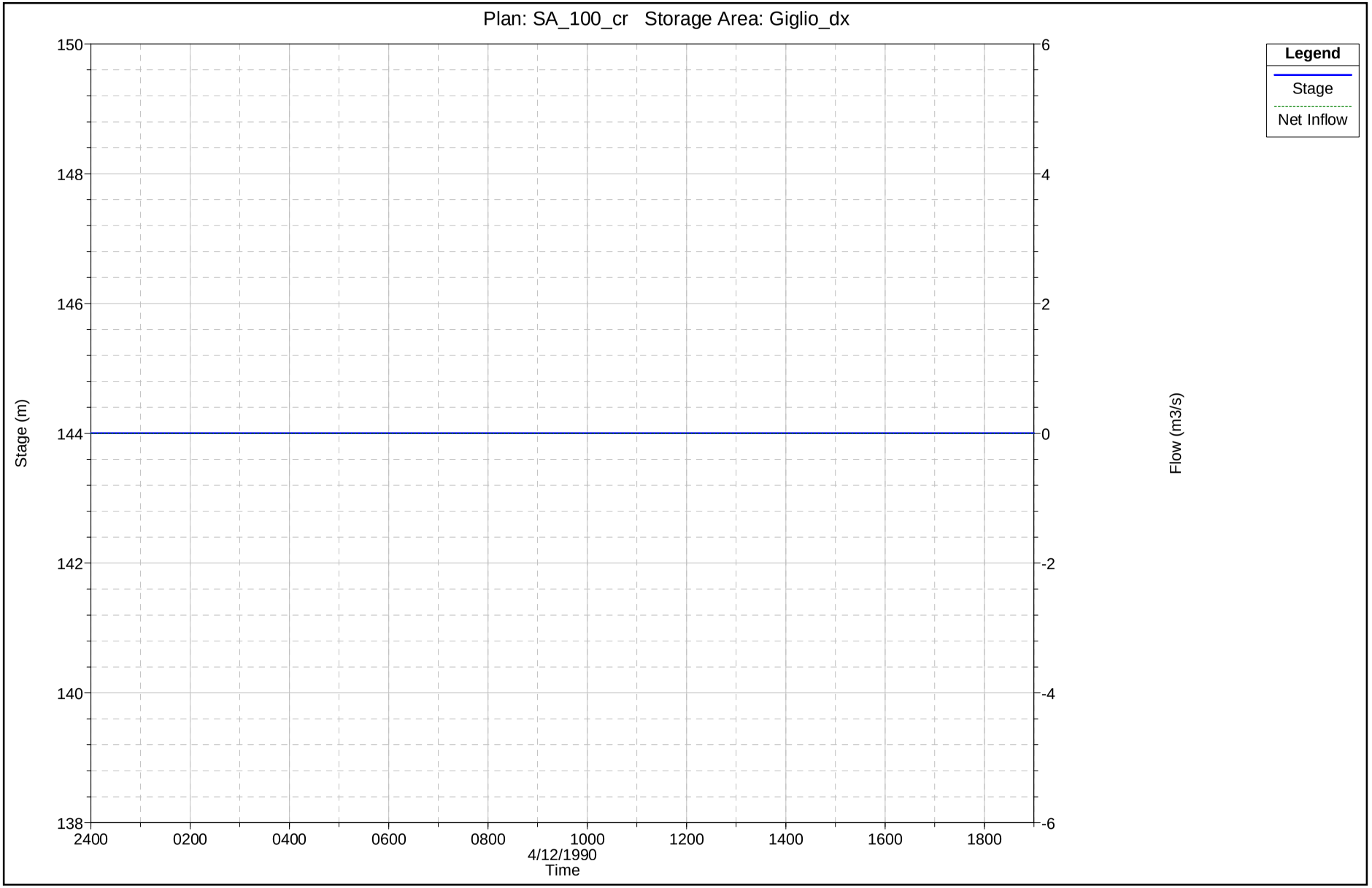

Plan: SA_30_cr Storage Area: Dx_Arno
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
146
144
142
140
138
136
134
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

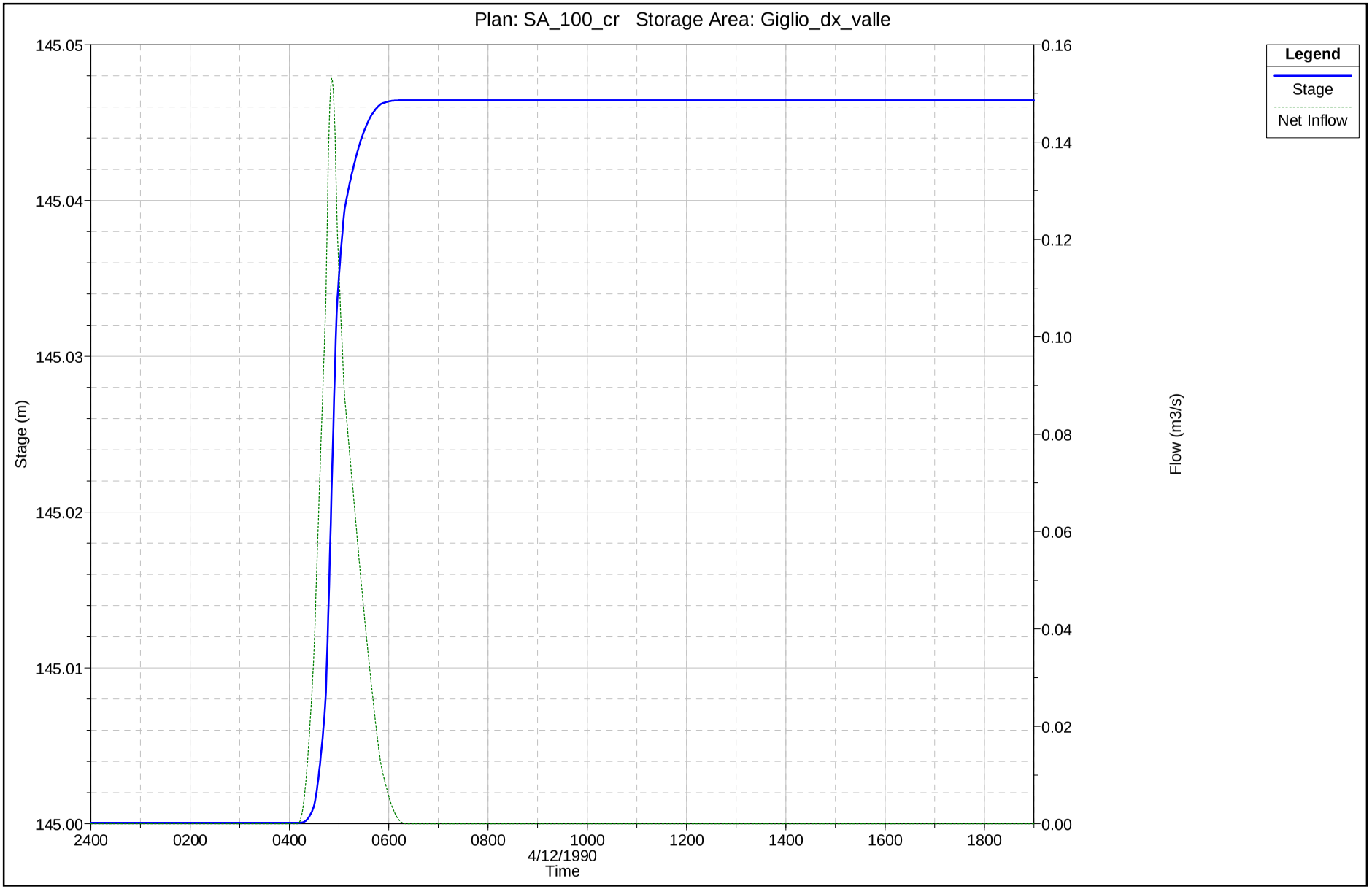

Plan: SA_30_cr Storage Area: Giglio_dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
150
148
146
144
142
140
138
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

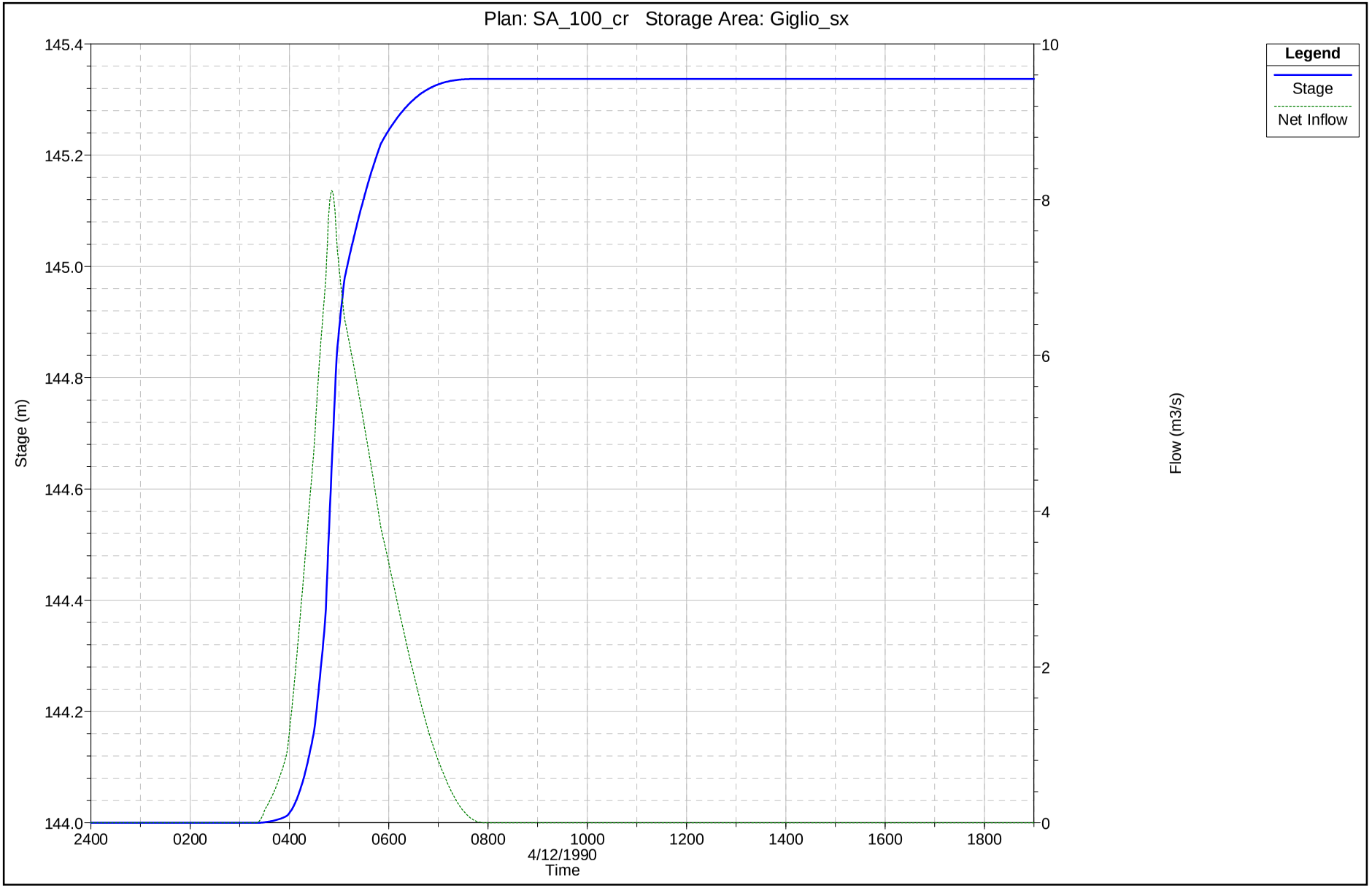

Plan: SA_30_cr Storage Area: Giglio_dx_valle
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
152
150
148
146
144
142
140
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

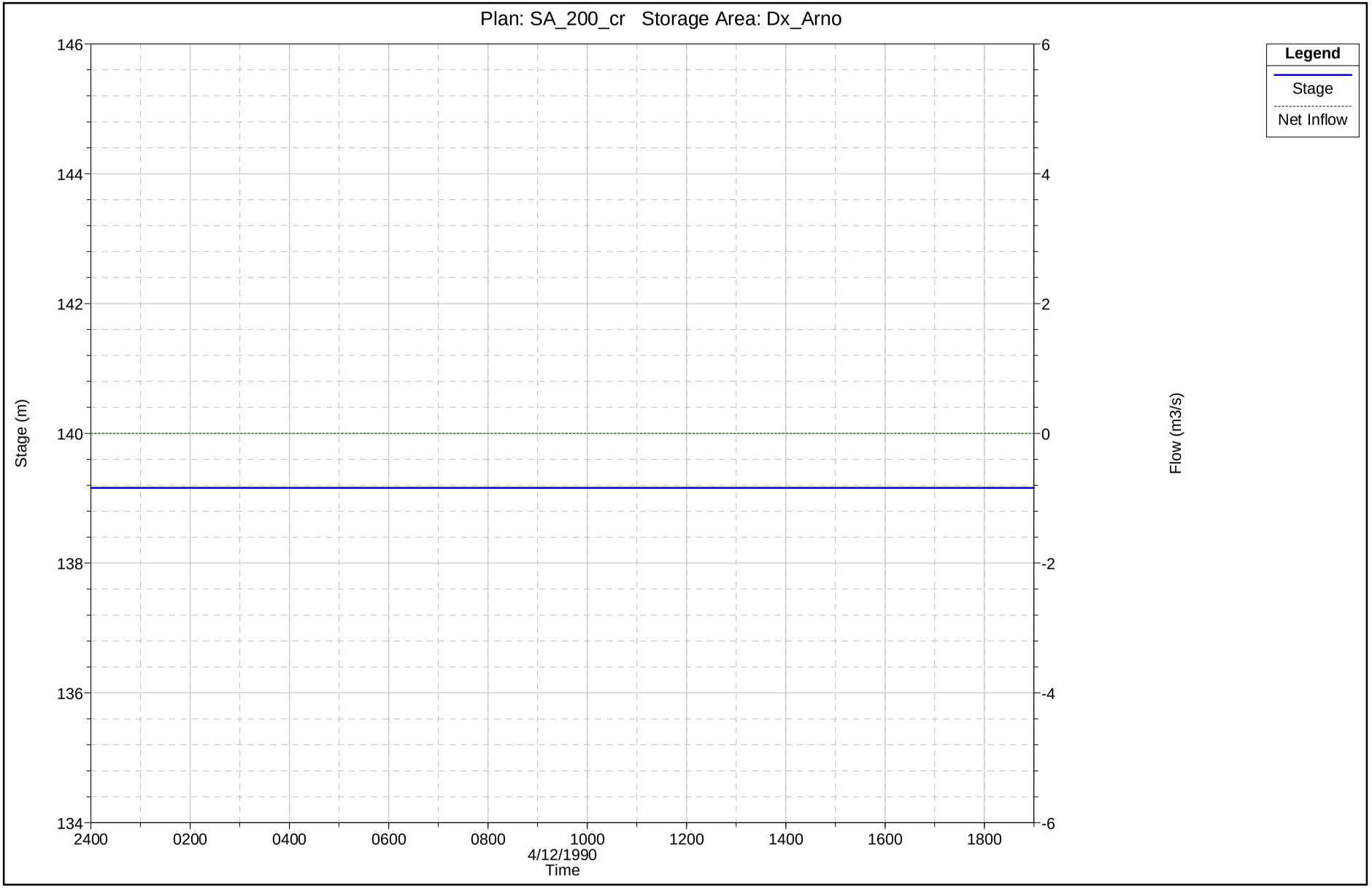

Plan: SA_30_cr Storage Area: Giglio_sx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
150
148
146
144
142
140
138
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

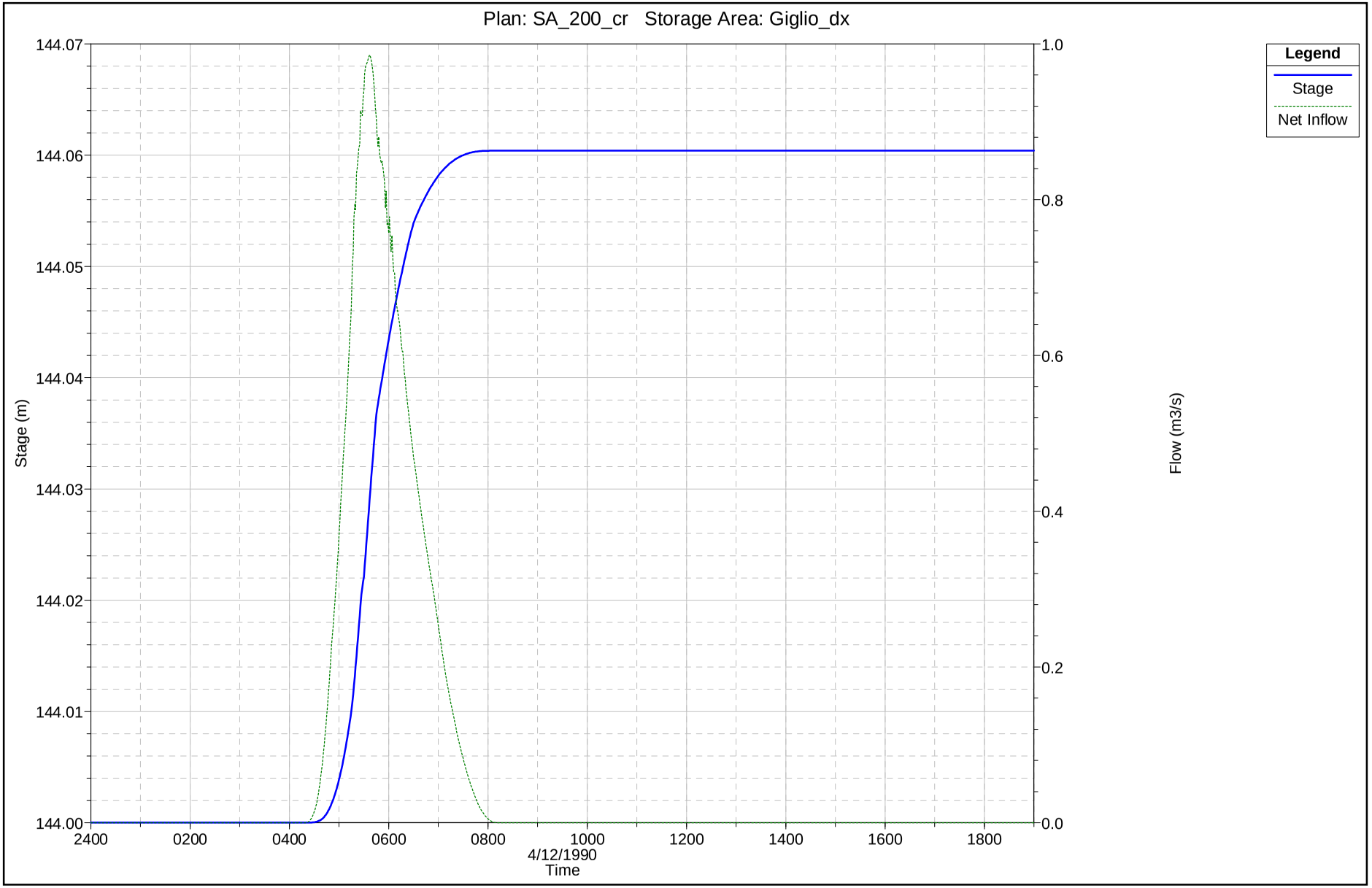

Plan: SA_100_cr Storage Area: Dx_Arno
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
146
144
142
140
138
136
134
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

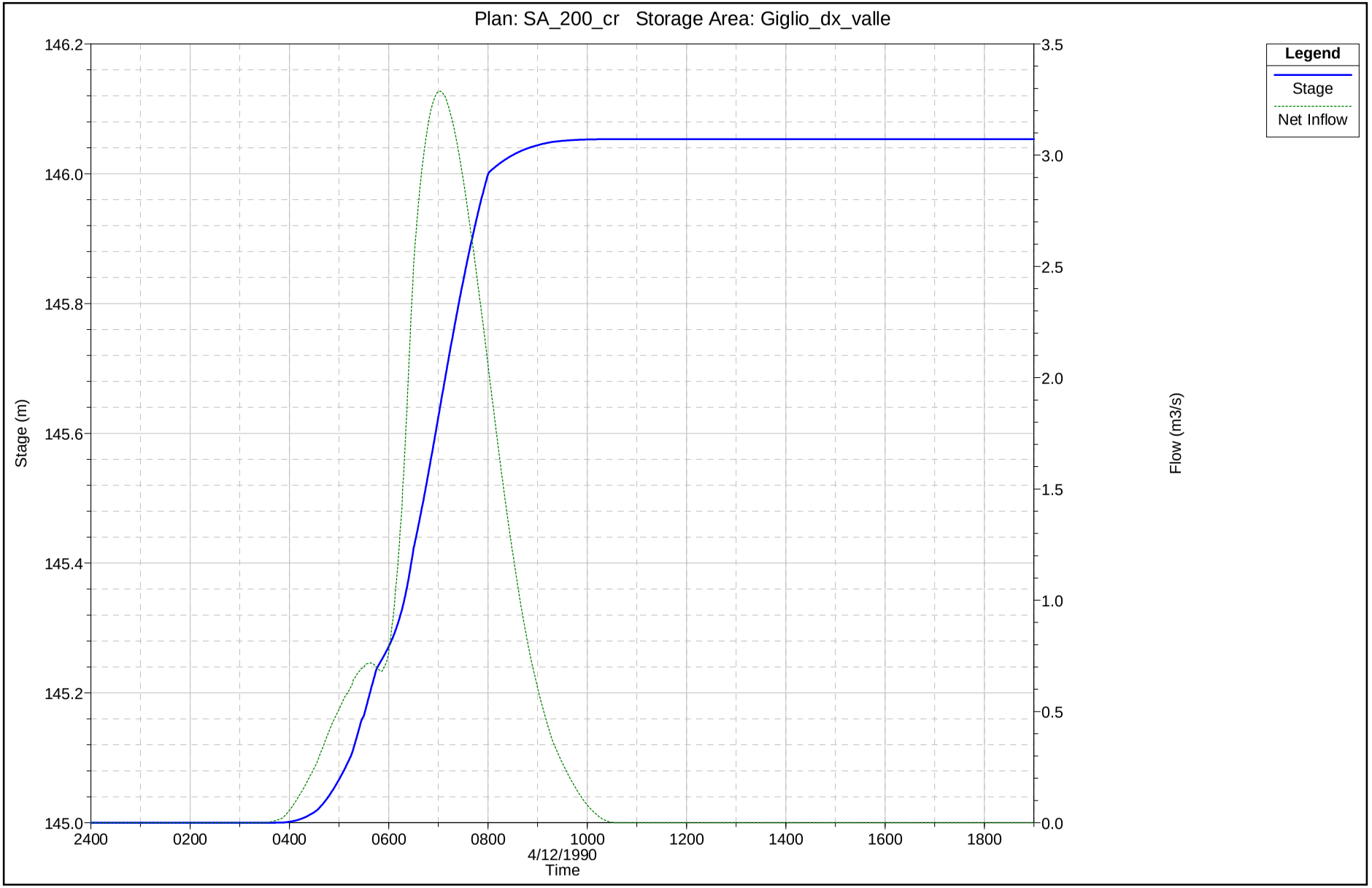

Plan: SA_100_cr Storage Area: Giglio_dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
150
148
146
144
142
140
138
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

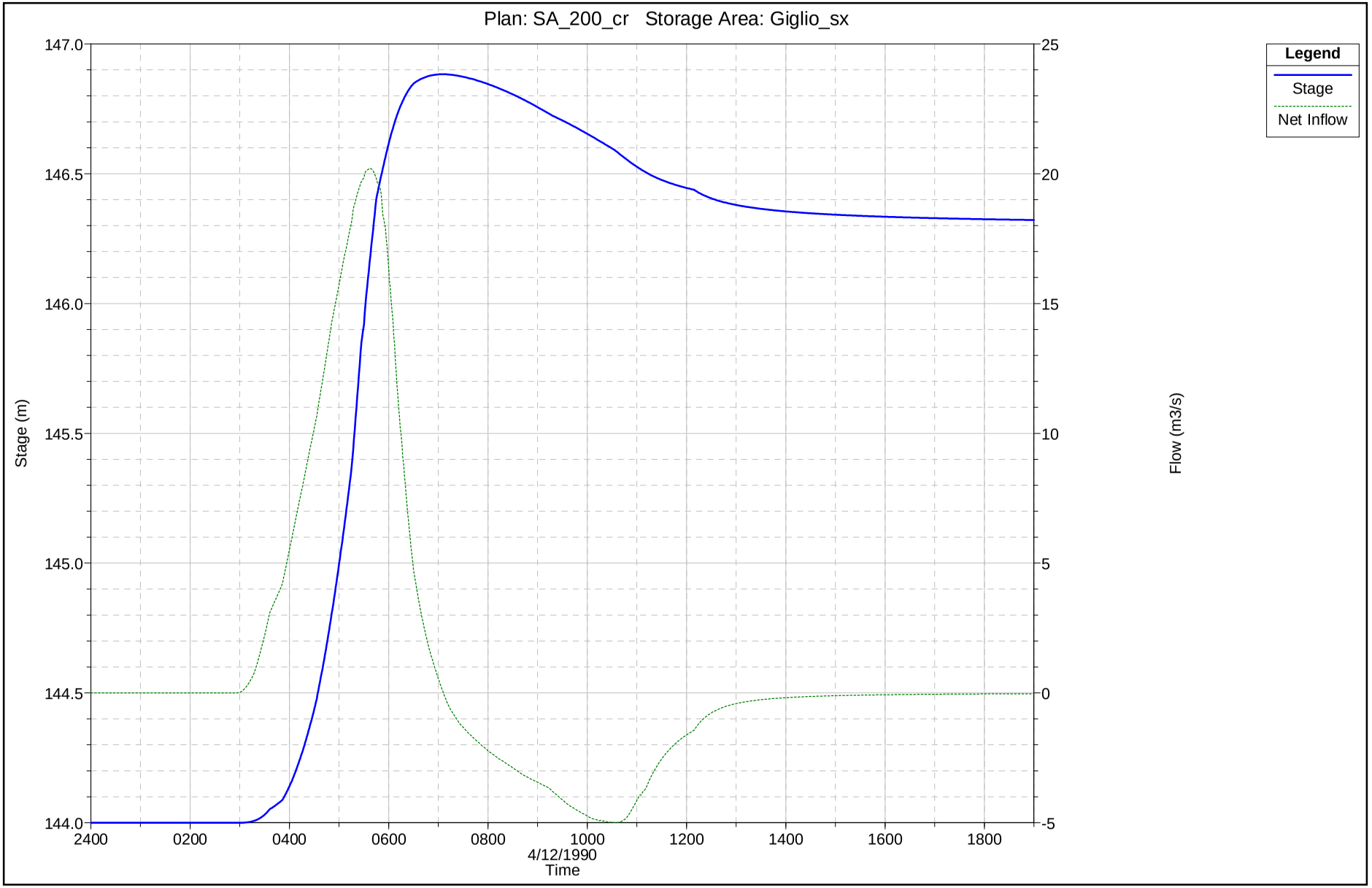

Plan: SA_100_cr Storage Area: Giglio_dx_valle
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
145.05
145.04
145.03
145.02
145.01
145.00
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

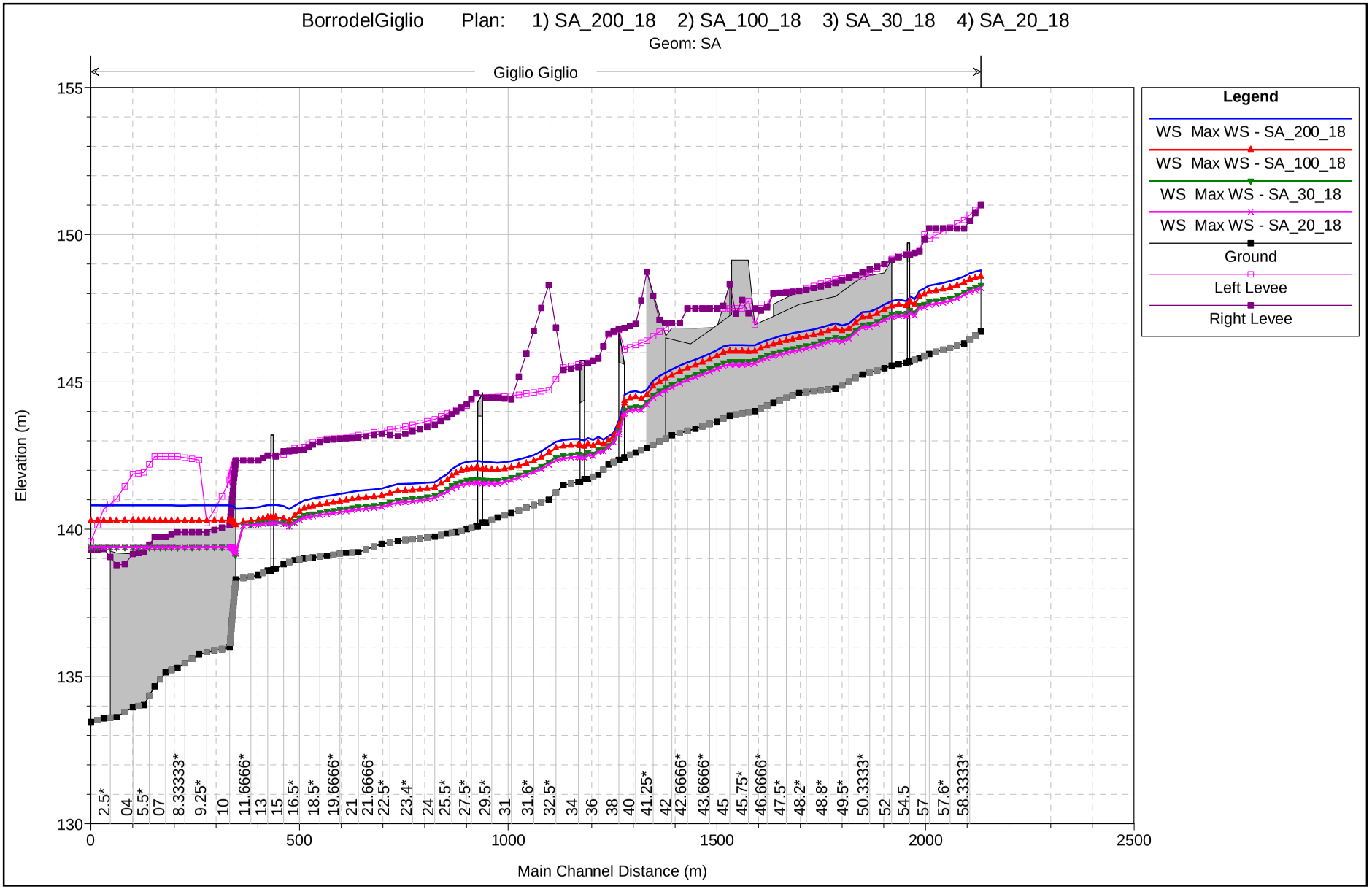

Plan: SA_100_cr Storage Area: Giglio_sx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
145.4
145.2
145.0
144.8
144.6
144.4
144.2
144.0
10
8
6
4
2
0
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time


Plan: SA_200_cr Storage Area: Dx_Arno
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
146
144
142
140
138
136
134
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time


Plan: SA_200_cr Storage Area: Giglio_dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
144.07
144.06
144.05
144.04
144.03
144.02
144.01
144.00
1.0
0.8
0.6
0.4
0.2
0.0
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time


Plan: SA_200_cr Storage Area: Giglio_dx_valle
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
146.2
146.0
145.8
145.6
145.4
145.2
145.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time

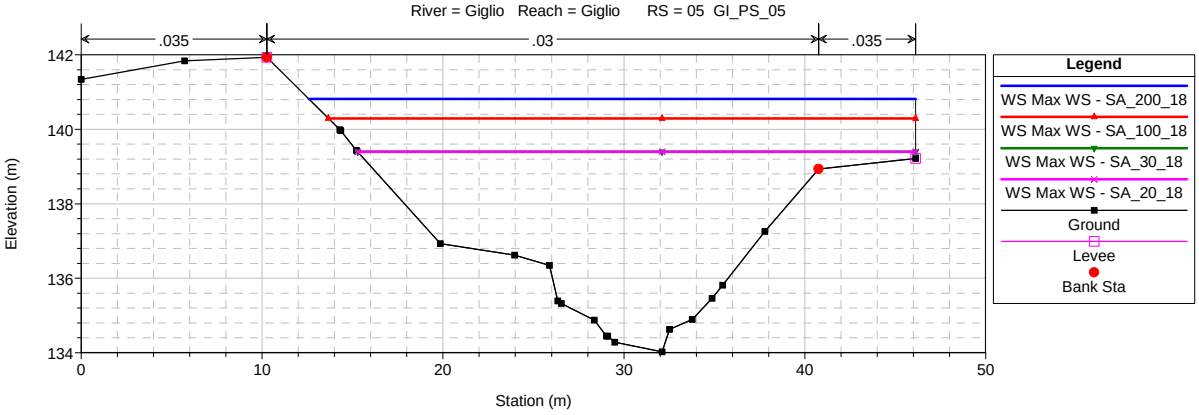

Plan: SA_200_cr Storage Area: Giglio_sx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
147.0
146.5
146.0
145.5
145.0
144.5
144.0
25
20
15
10
5
0
-5
2400
0200
0400
0600
0800
1000
1200
1400
1600
1800
4/12/1990
Time


BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
Giglio Giglio
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
155
150
145
140
135
130
0
500
1000
1500
2000
2500
2.5*
04
5.5*
07
8.3333*
9.25*
10
11.6666*
13
15
16.5*
18.5*
19.6666*
21
21.6666*
22.5*
23.4*
24
25.5*
27.5*
29.5*
31
31.6*
32.5*
34
36
38
40
41.25*
42
42.6666*
43.6666*
45
45.75*
46.6666*
47.5*
48.2*
48.8*
49.5*
50.3333*
52
54.5
57
57.6*
58.3333*

BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

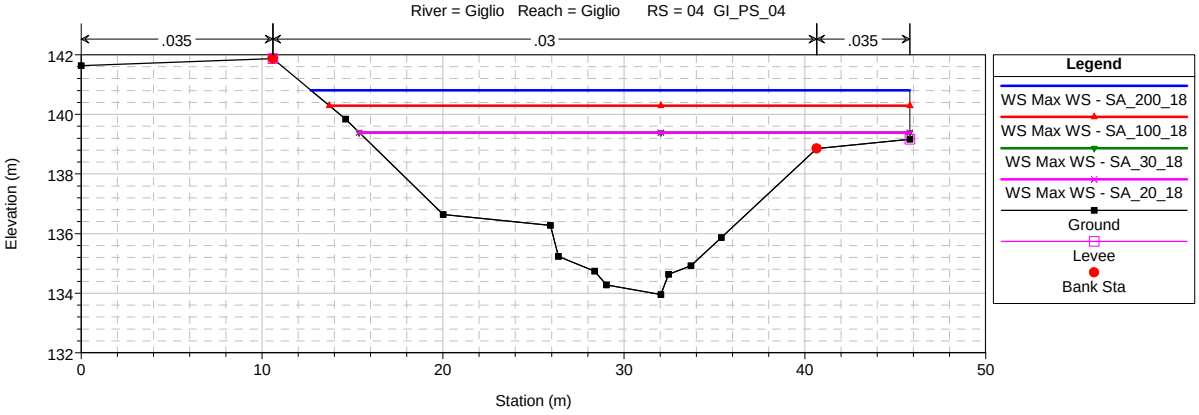
River = Giglio Reach = Giglio RS = 05 GI_PS_05



BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

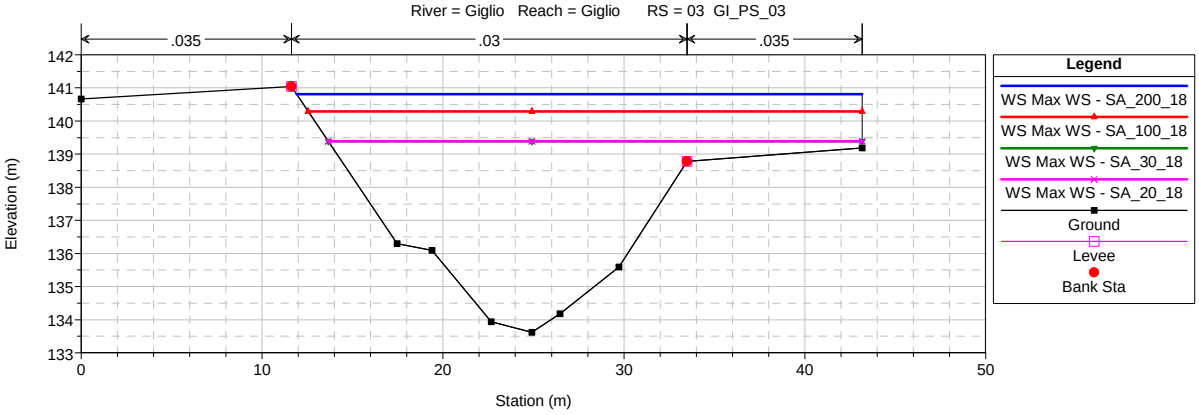
River = Giglio Reach = Giglio RS = 04 GI_PS_04



BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

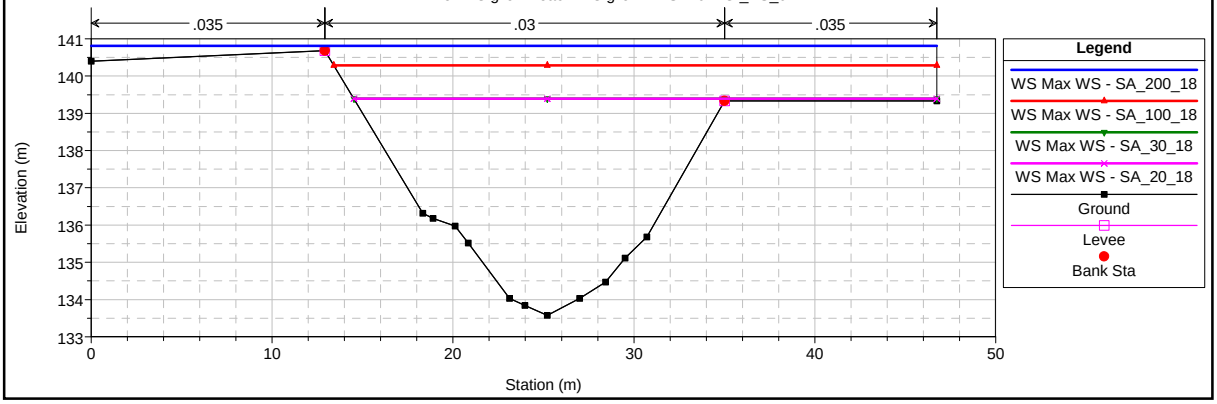
River = Giglio Reach = Giglio RS = 03 GI_PS_03

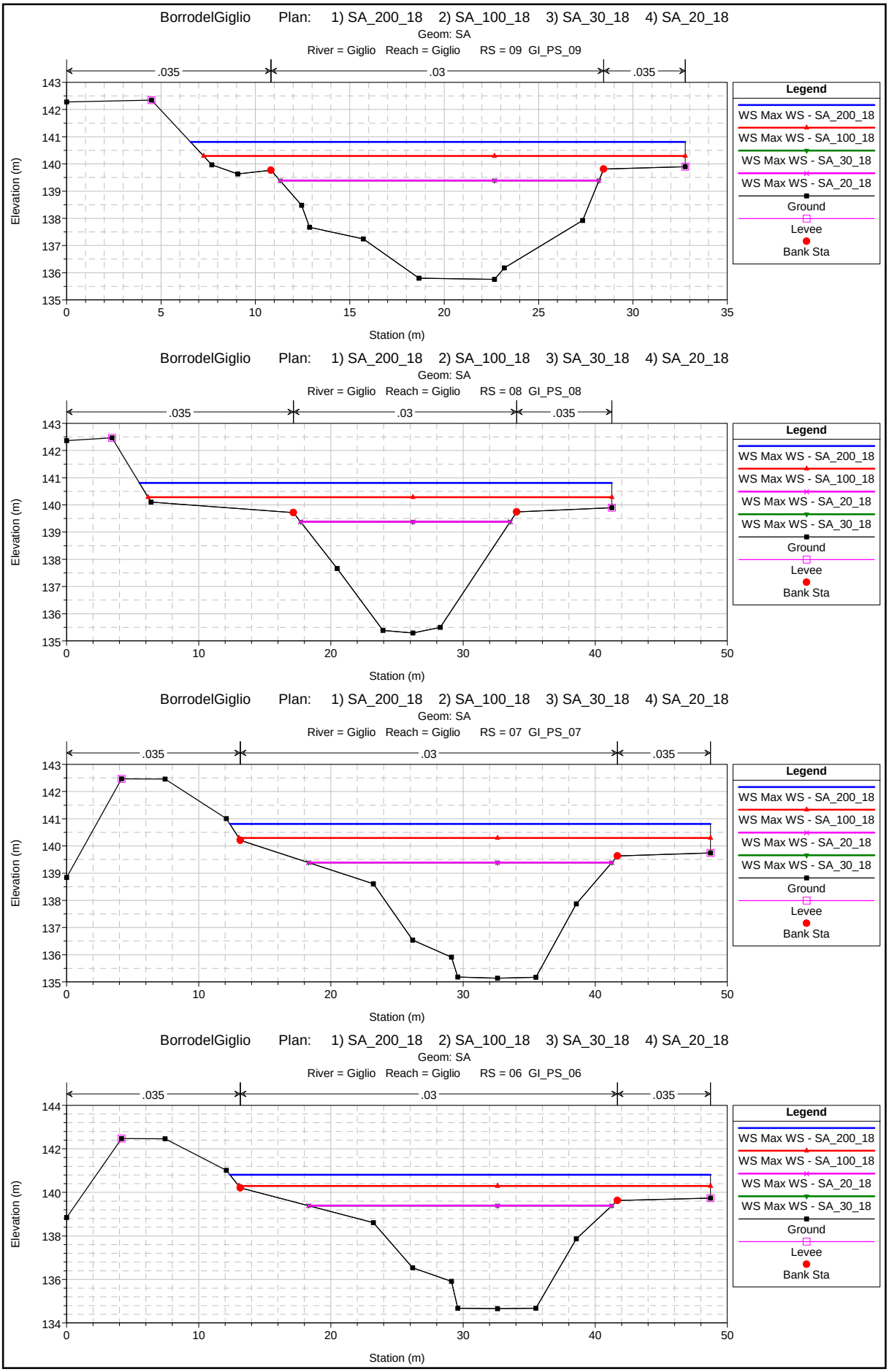


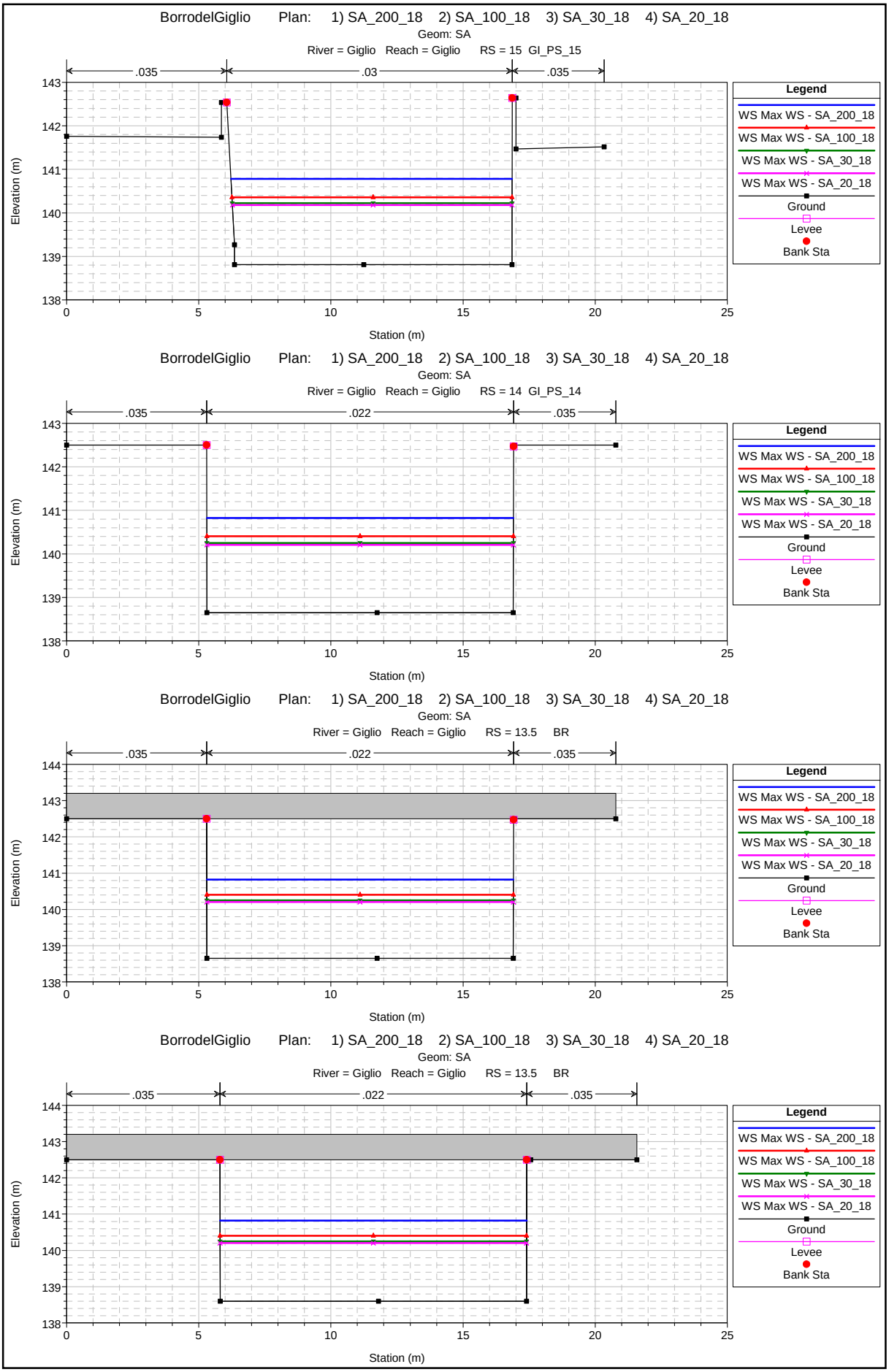
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

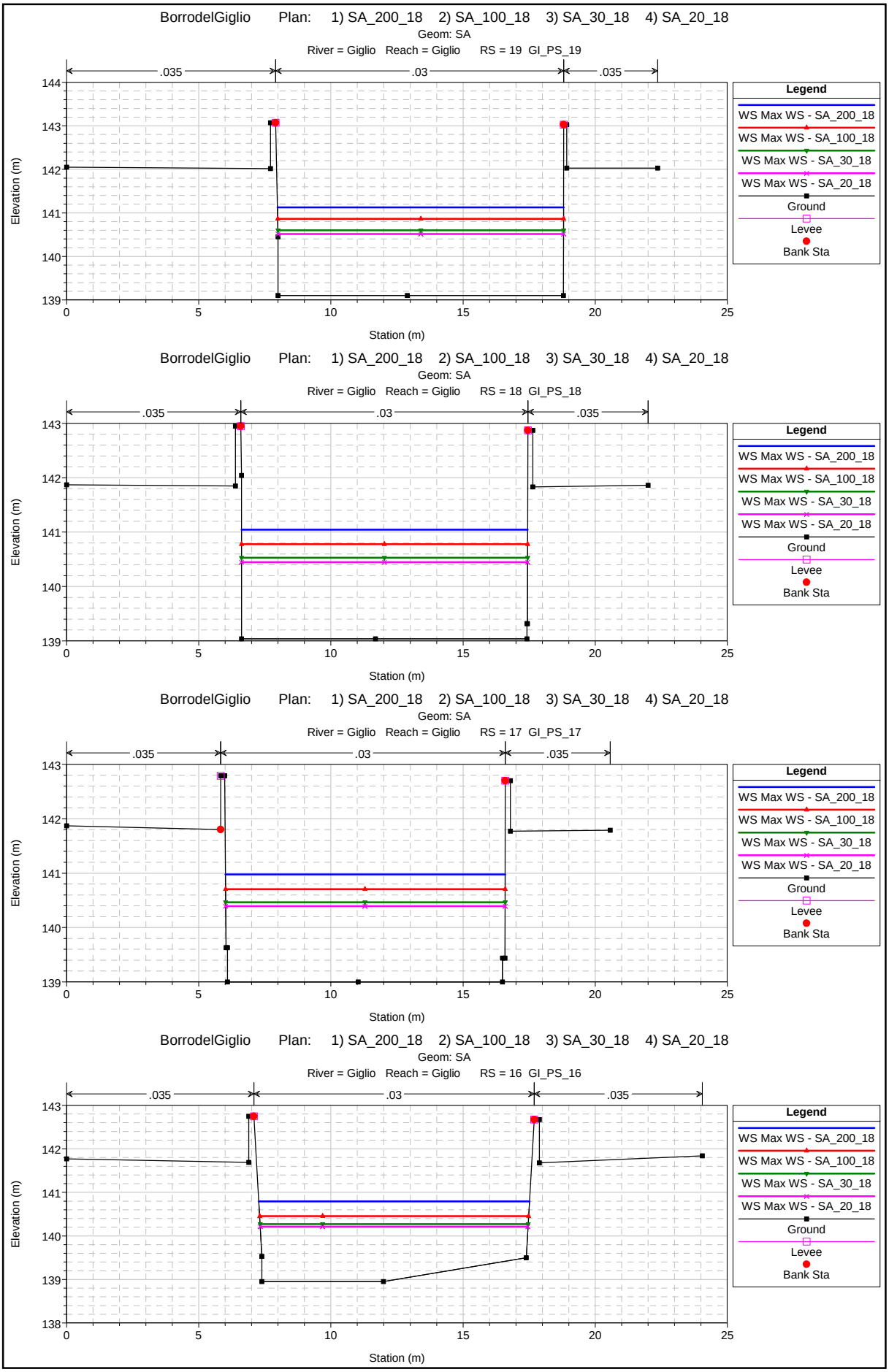
Geom: SA

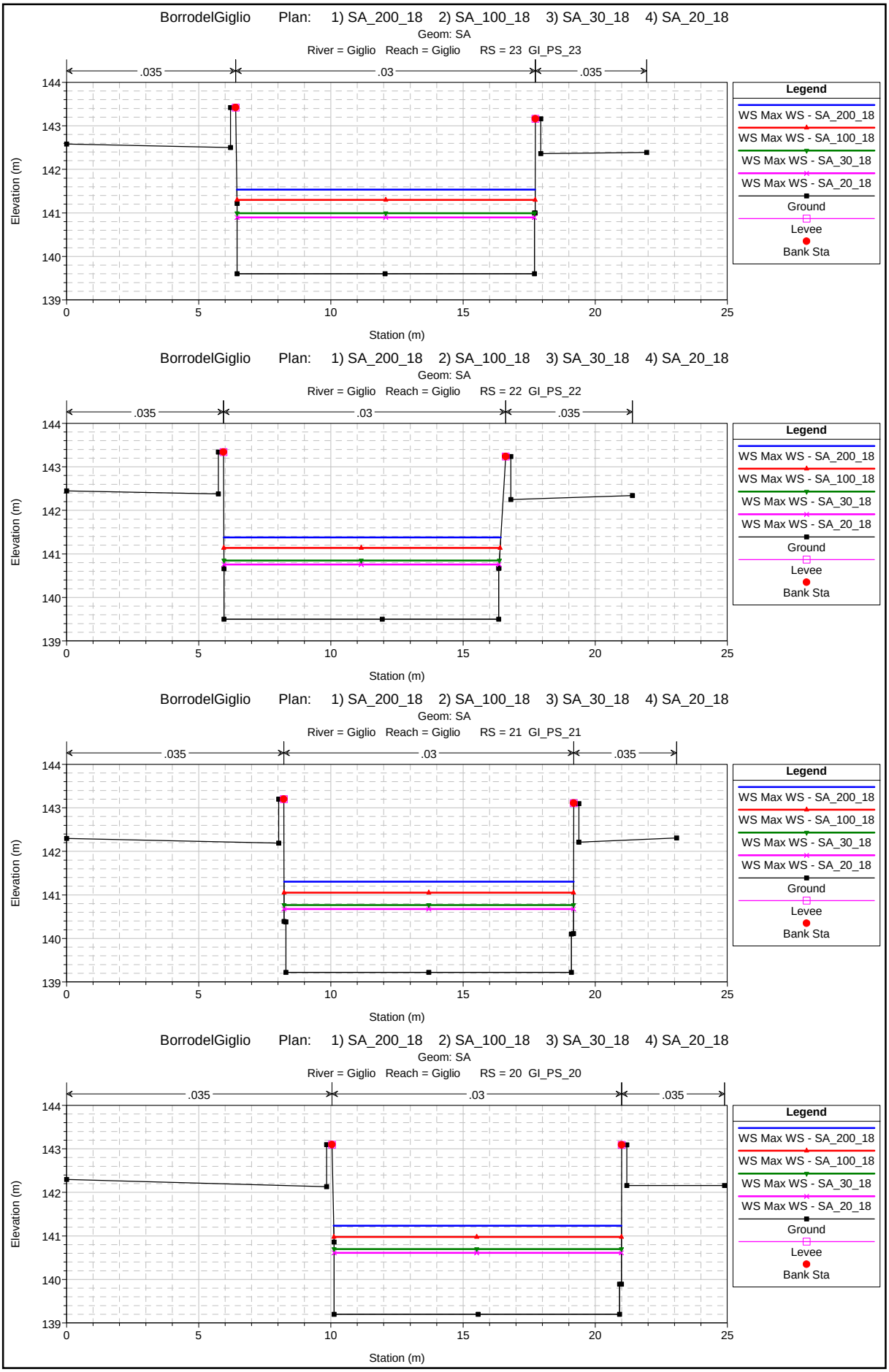
River = Giglio Reach = Giglio RS = 02 GI_PS_02

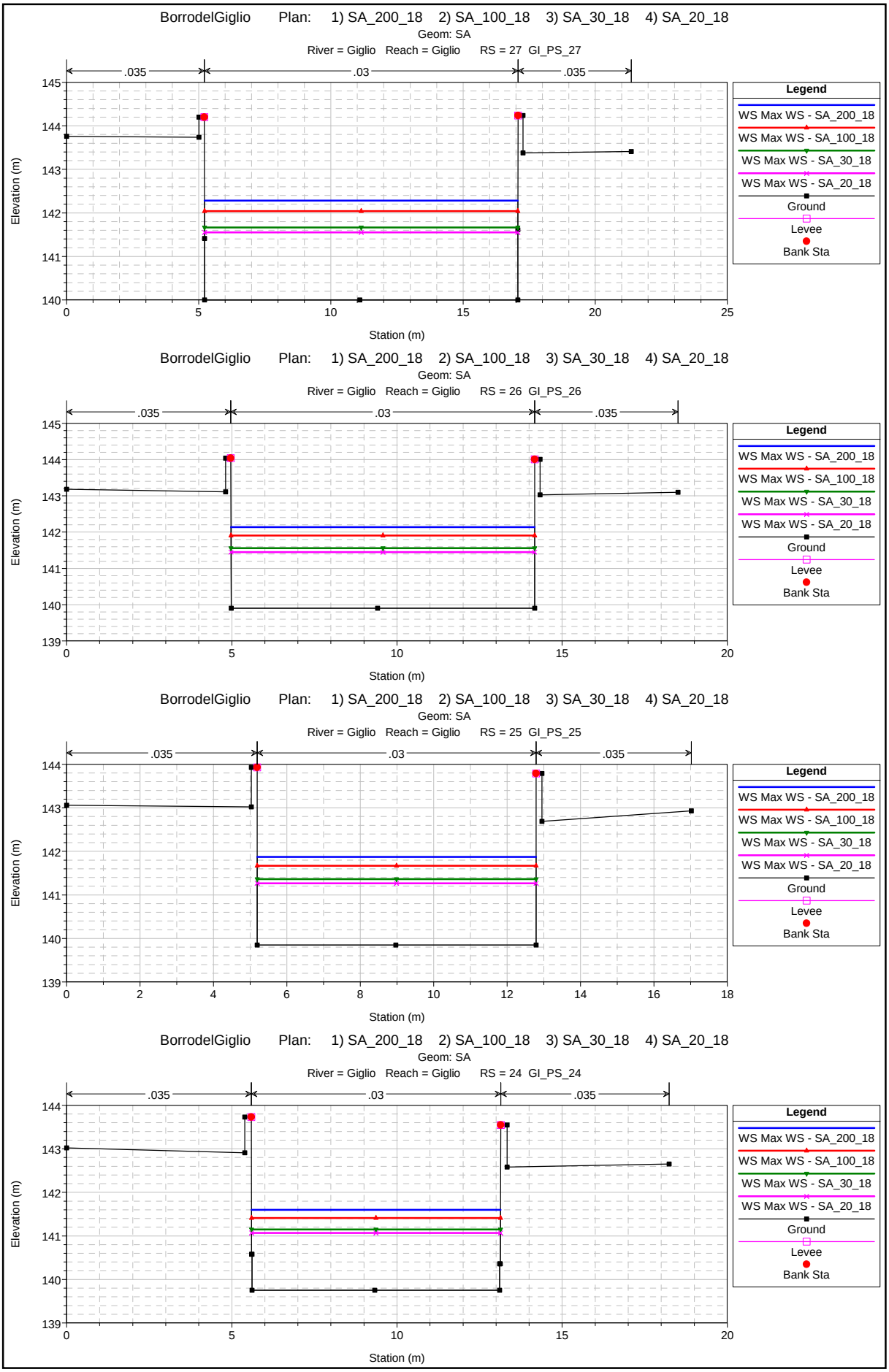


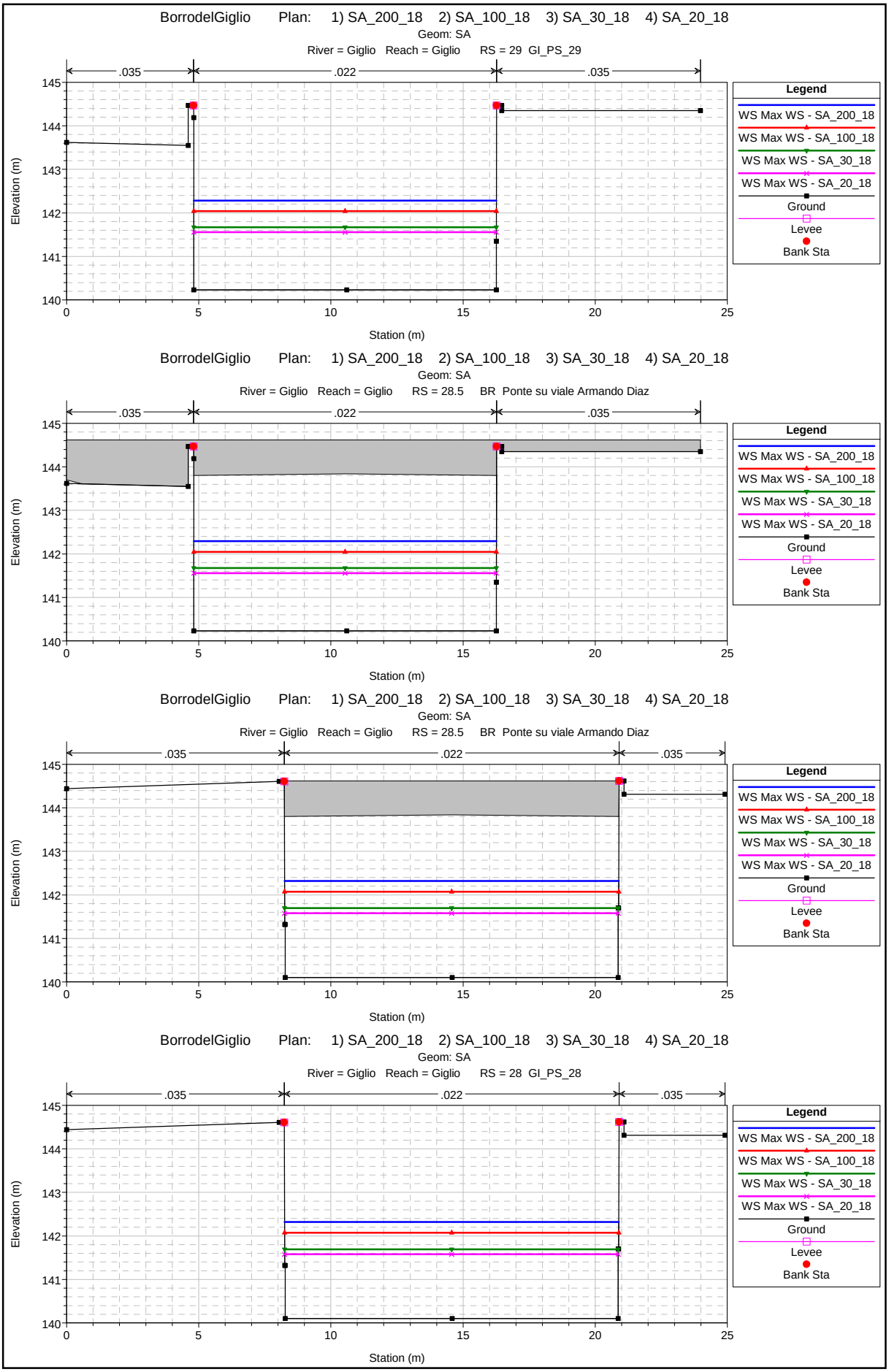

BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 09 GI_PS_09
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 08 GI_PS_08
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_20_18
WS Max WS - SA_30_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 07 GI_PS_07
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_20_18
WS Max WS - SA_30_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 06 GI_PS_06
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_20_18
WS Max WS - SA_30_18
Ground
Levee
Bank Sta

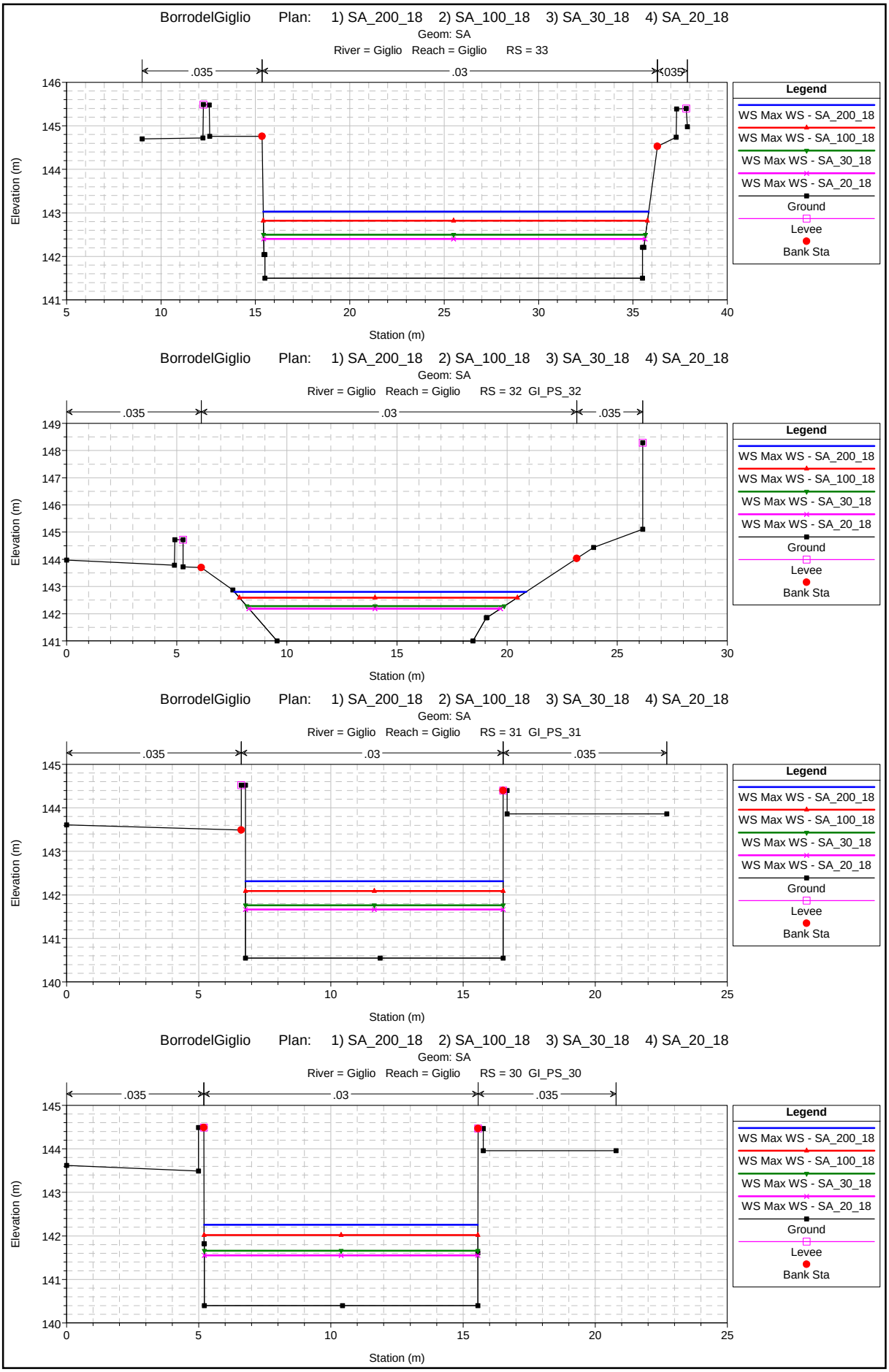

BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 15 GI_PS_15
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 14 GI_PS_14
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 13.5 BR
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 13.5 BR
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 19 GI_PS_19
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 18 GI_PS_18
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 17 GI_PS_17
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 16 GI_PS_16
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 23 GI_PS_23
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 22 GI_PS_22
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 21 GI_PS_21
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 20 GI_PS_20
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 27 GI_PS_27
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 26 GI_PS_26
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 25 GI_PS_25
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 24 GI_PS_24
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta

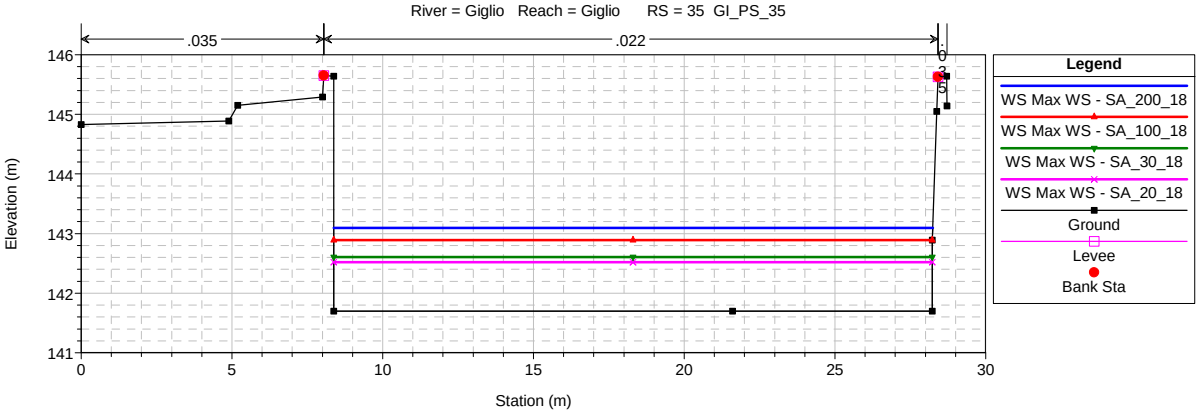

BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 29 GI_PS_29
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 28.5 BR Ponte su viale Armando Diaz
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 28.5 BR Ponte su viale Armando Diaz
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 28 GI_PS_28
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 33
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 32 GI_PS_32
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 31 GI_PS_31
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 30 GI_PS_30
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta

BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

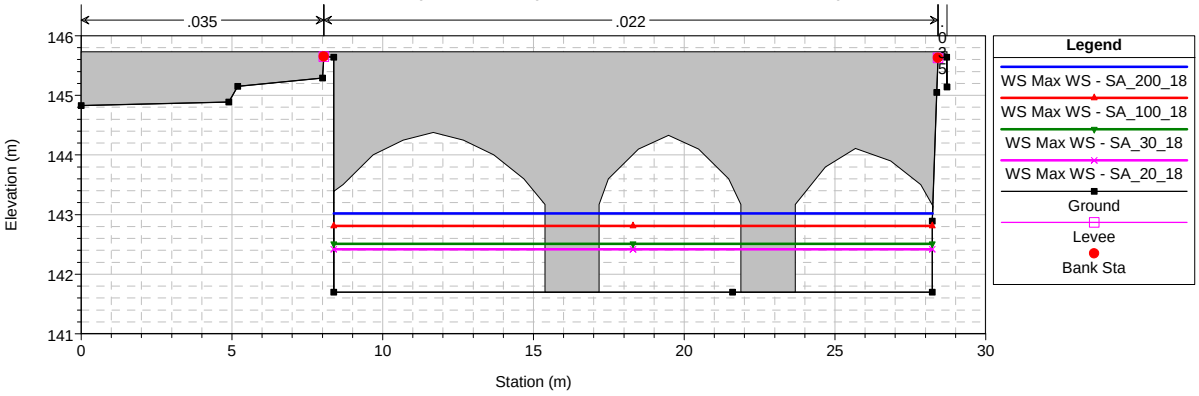
River = Giglio Reach = Giglio RS = 35 GI_PS_35



BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

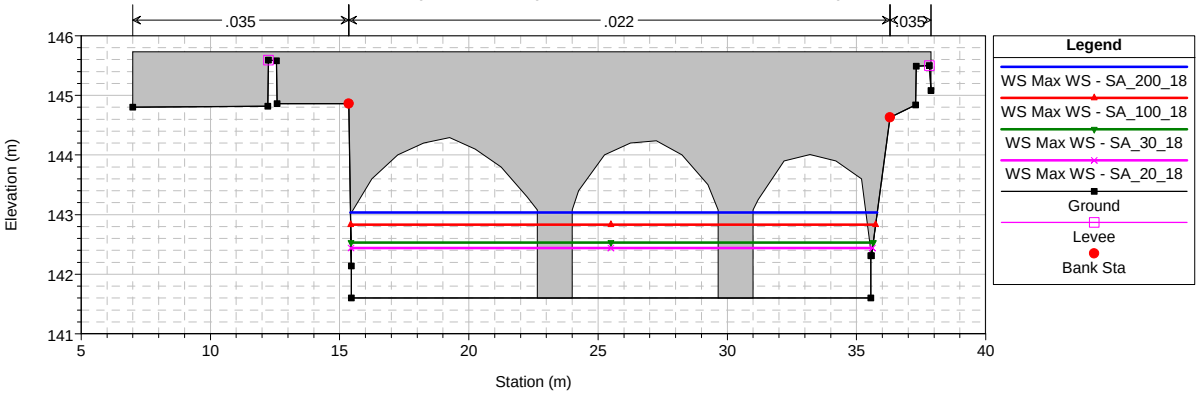
River = Giglio Reach = Giglio RS = 34.5 BR Ponte di via Burzagli



BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

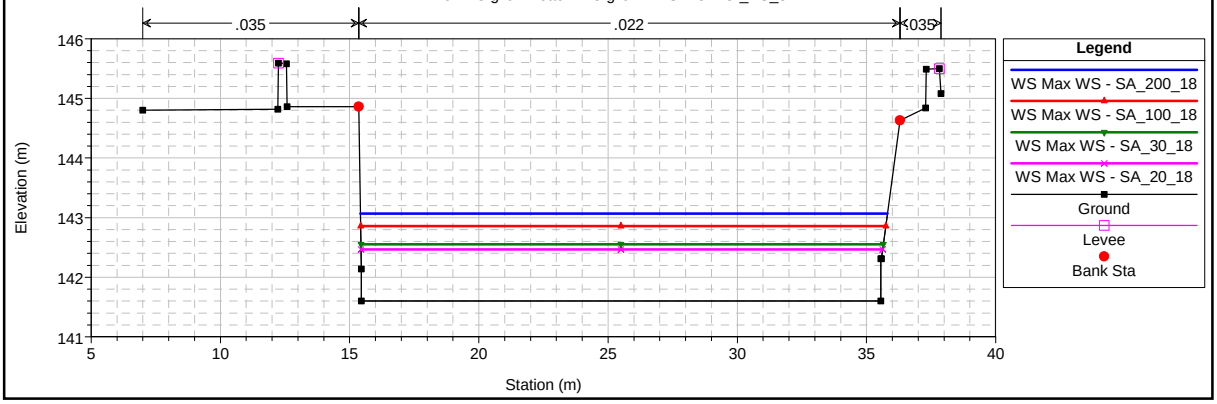
River = Giglio Reach = Giglio RS = 34.5 BR Ponte di via Burzagli

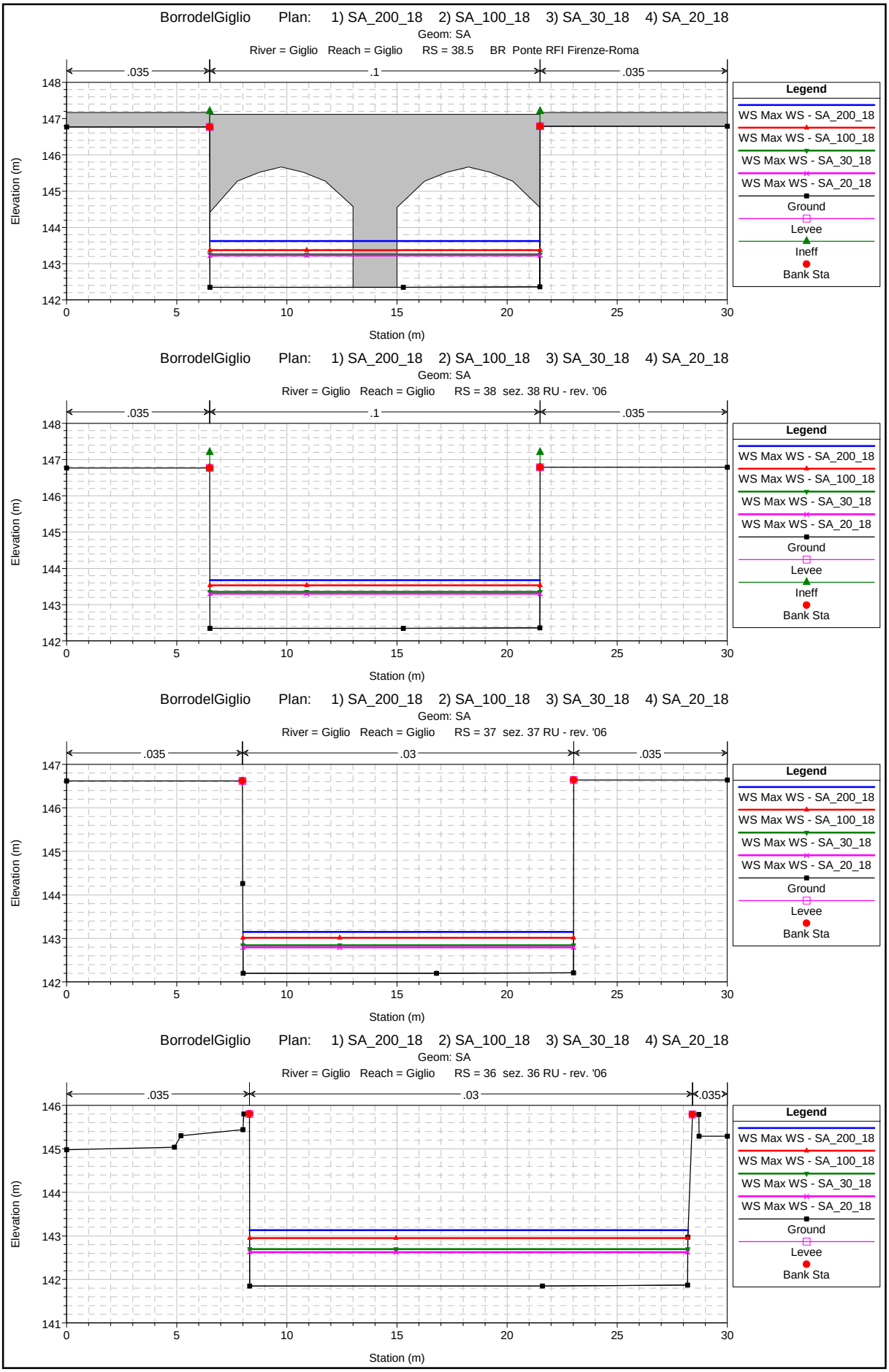


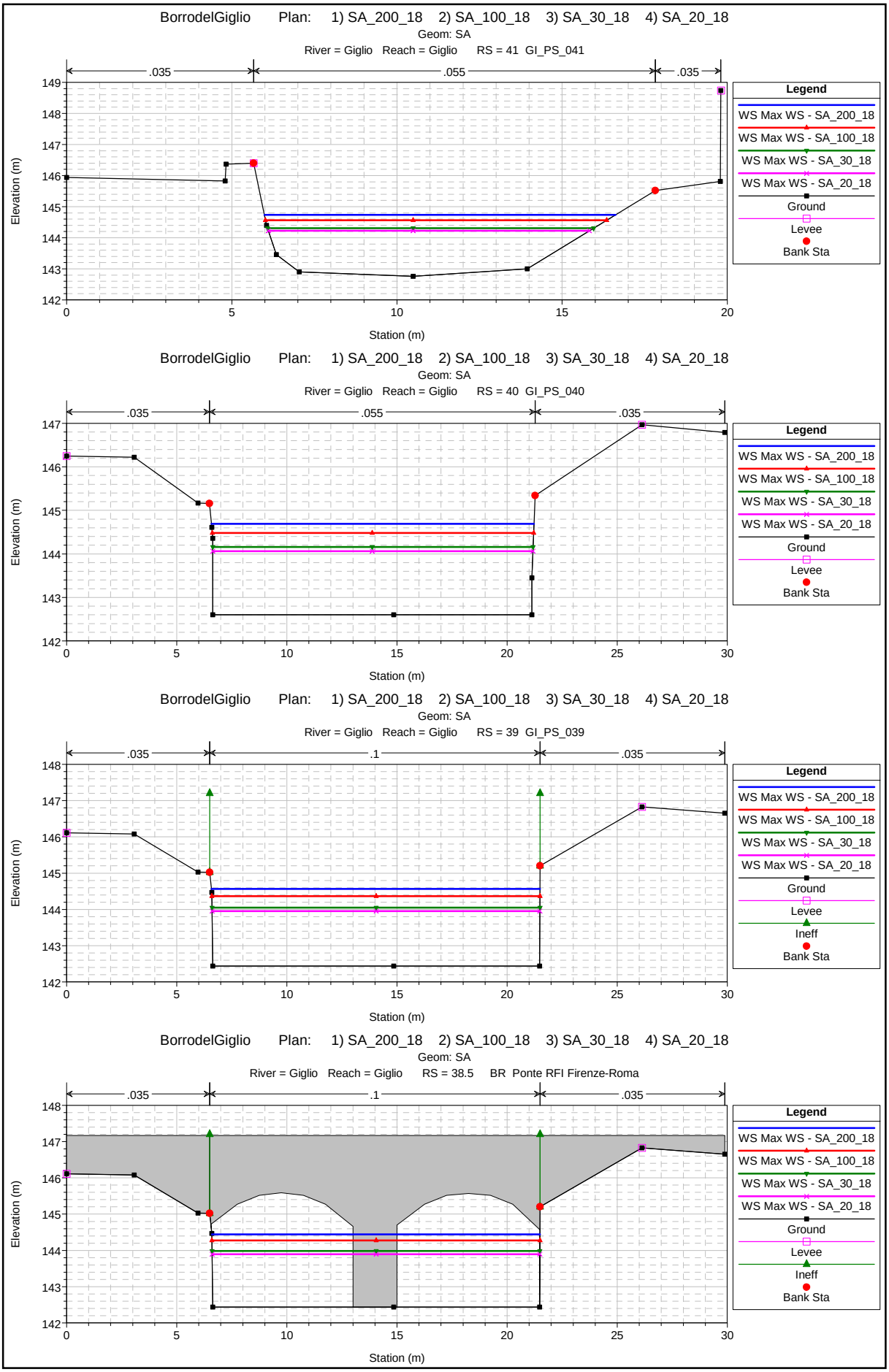
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

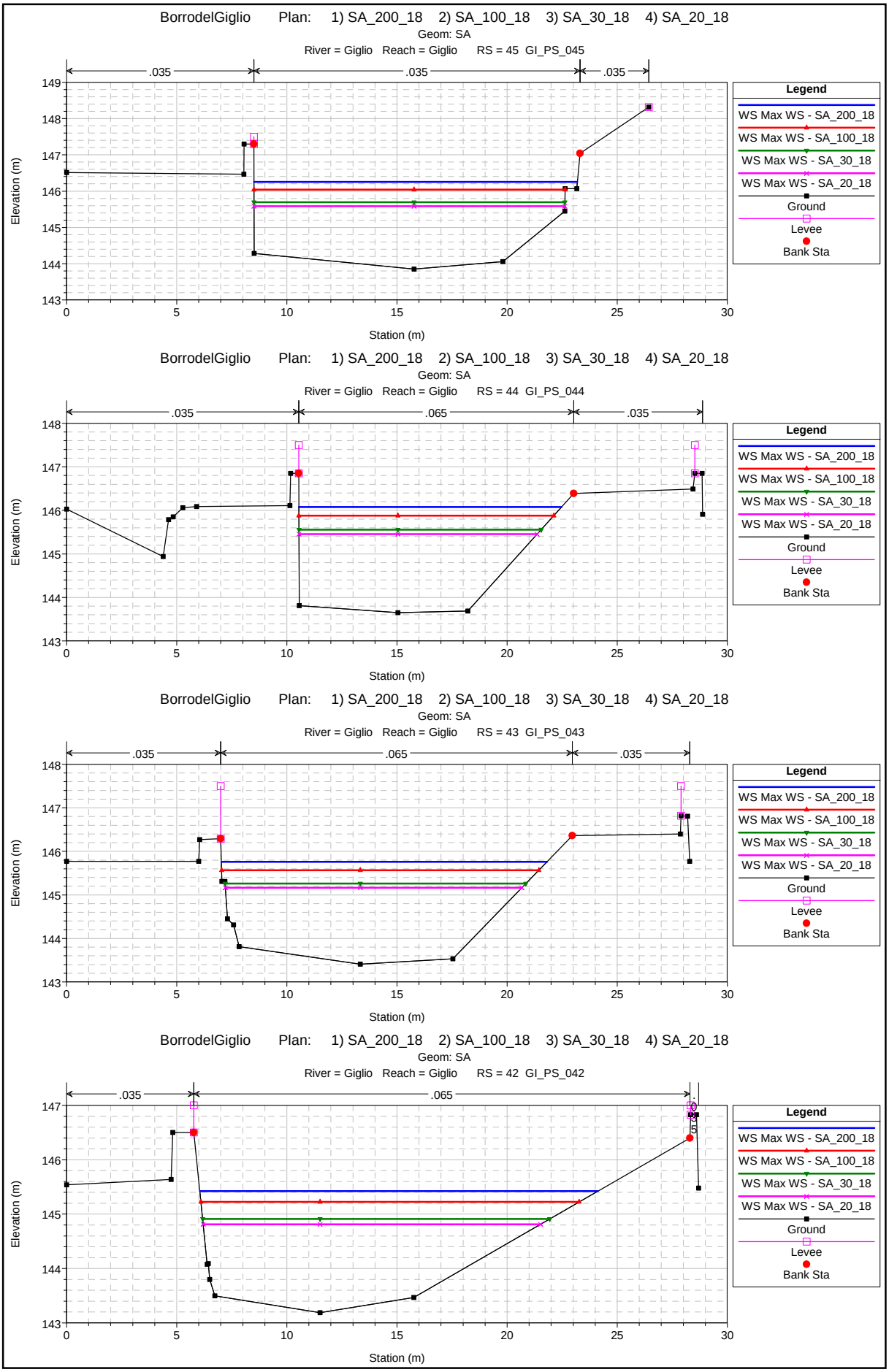
Geom: SA

River = Giglio Reach = Giglio RS = 34 GI_PS_34




BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 38.5 BR Ponte RFI Firenze-Roma
.035
.1
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Ineff
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 38 sez. 38 RU - rev. '06
.035
.1
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Ineff
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 37 sez. 37 RU - rev. '06
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 36 sez. 36 RU - rev. '06
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta

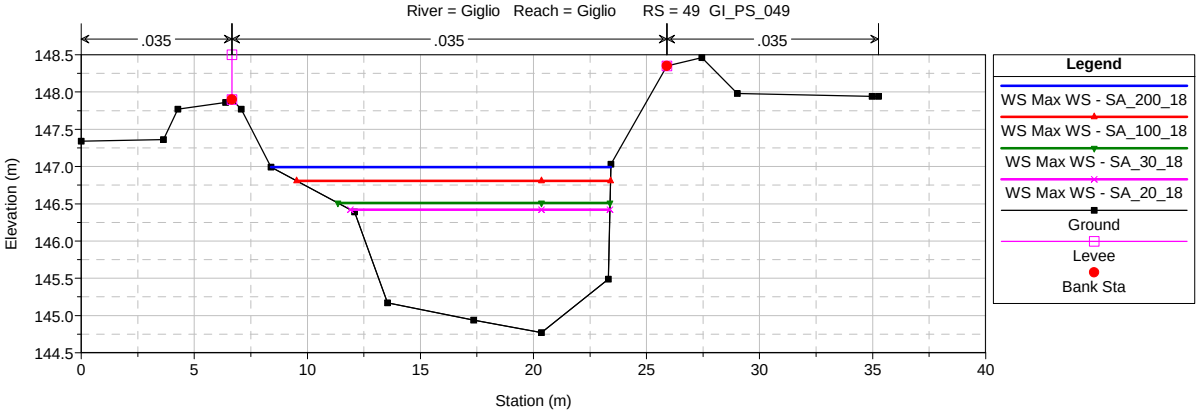

BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 41 GI_PS_041
.035
.055
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 40 GI_PS_040
.035
.055
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 39 GI_PS_039
.035
.1
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Ineff
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 38.5 BR Ponte RFI Firenze-Roma
.035
.1
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Ineff
Bank Sta


BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 45 GI_PS_045
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 44 GI_PS_044
.035
.065
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 43 GI_PS_043
.035
.065
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 42 GI_PS_042
.035
.065
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta

BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

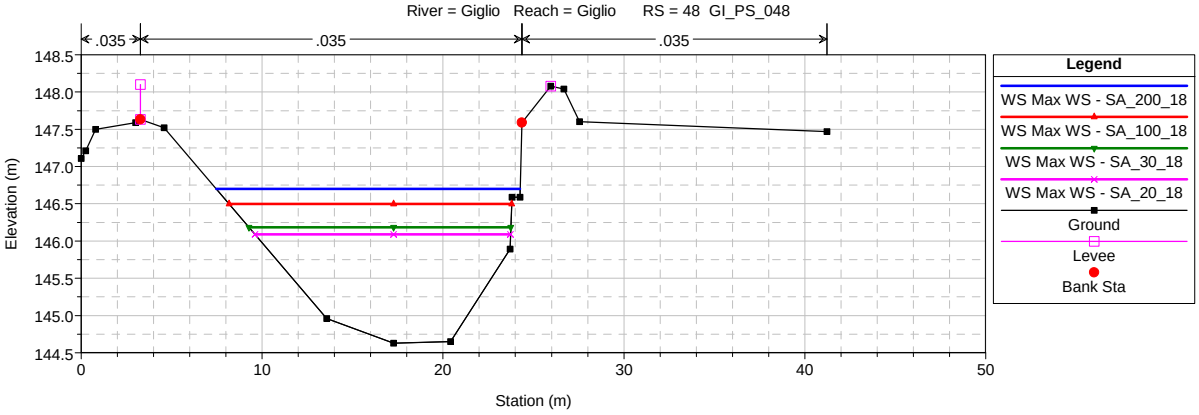
River = Giglio Reach = Giglio RS = 49 GI_PS_049



BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

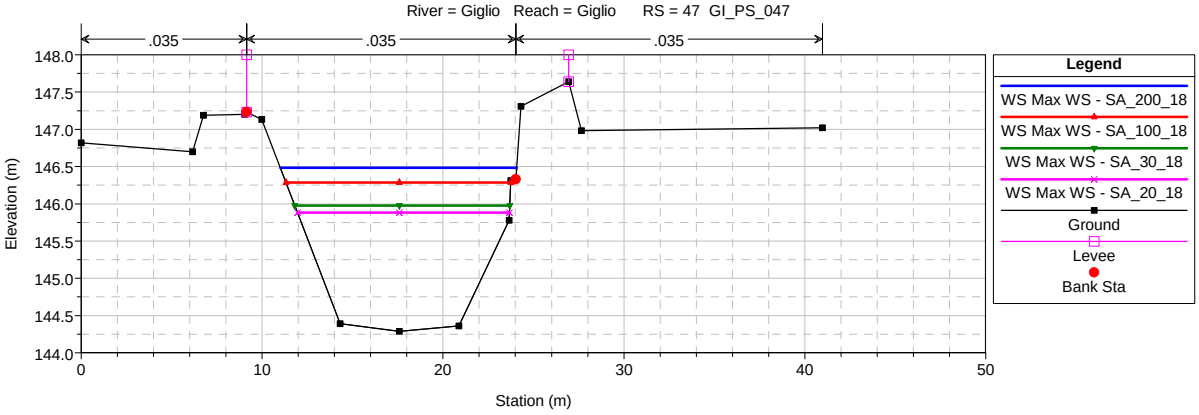
River = Giglio Reach = Giglio RS = 48 GI_PS_048



BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

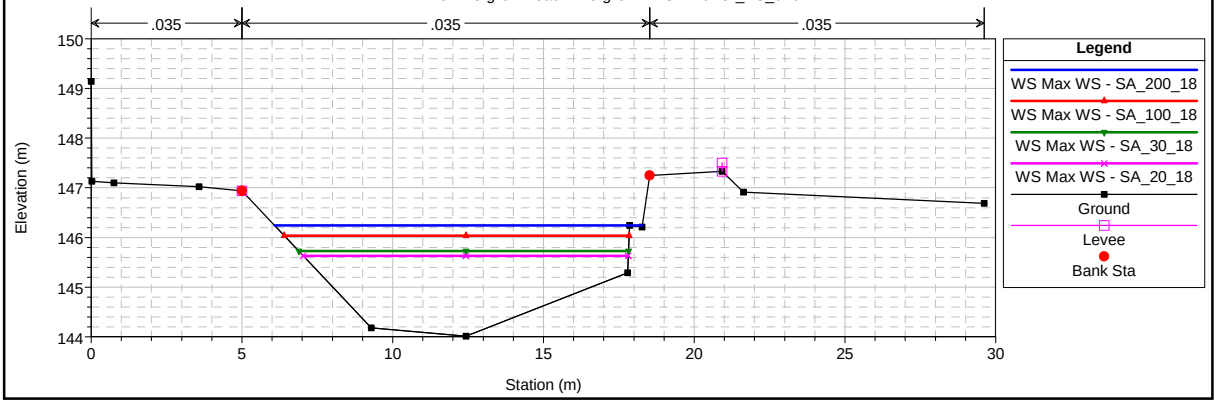
River = Giglio Reach = Giglio RS = 47 GI_PS_047



BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

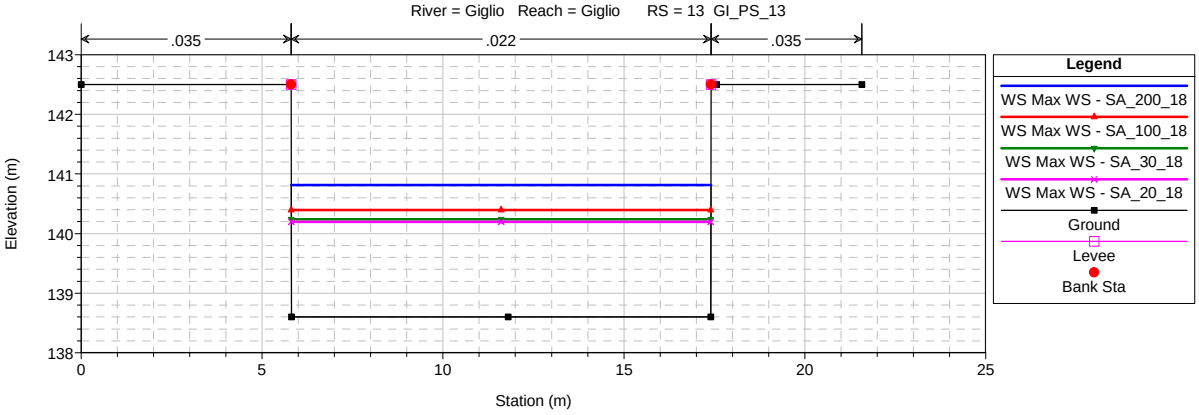
River = Giglio Reach = Giglio RS = 46 GI_PS_046



BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

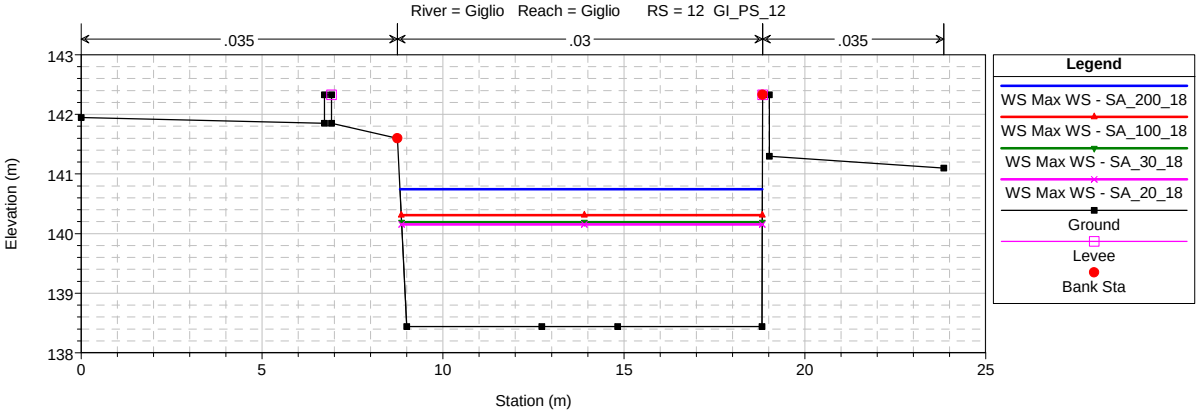
River = Giglio Reach = Giglio RS = 13 GI_PS_13



BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

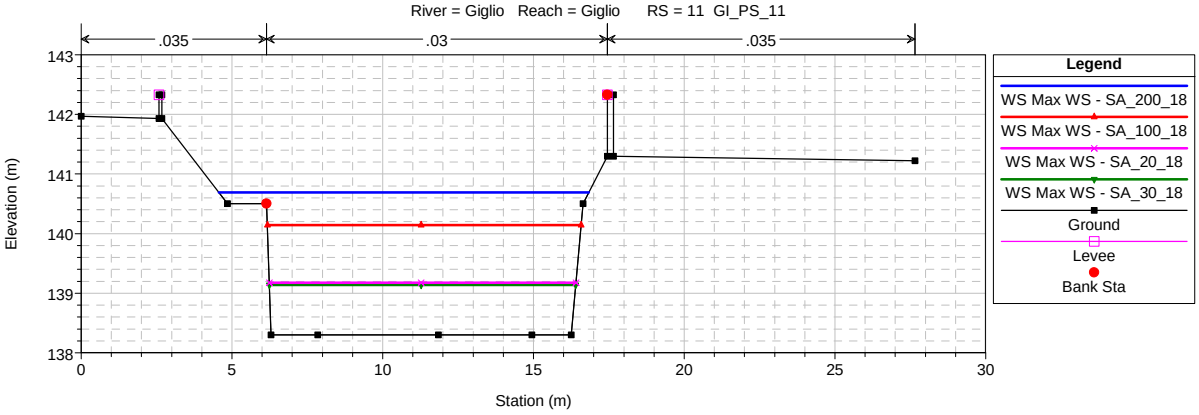
River = Giglio Reach = Giglio RS = 12 GI_PS_12



BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

Geom: SA

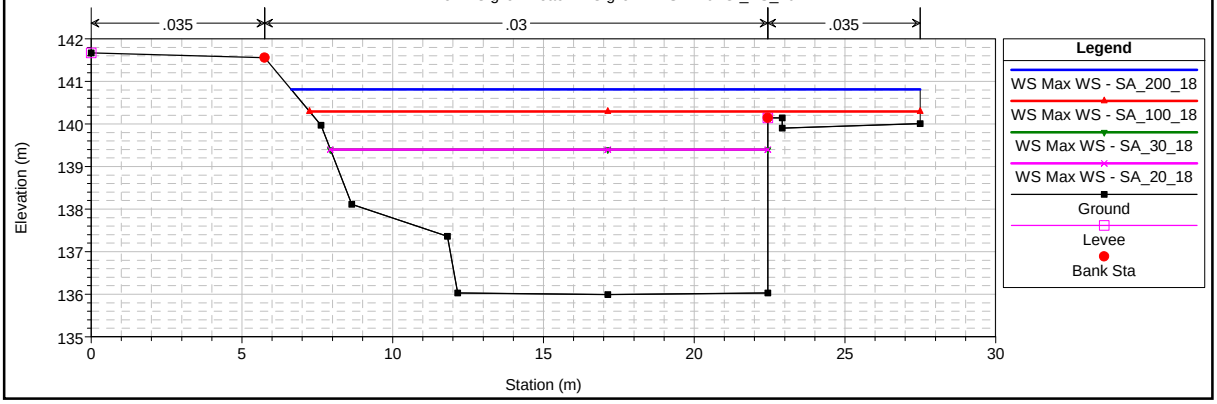
River = Giglio Reach = Giglio RS = 11 GI_PS_11

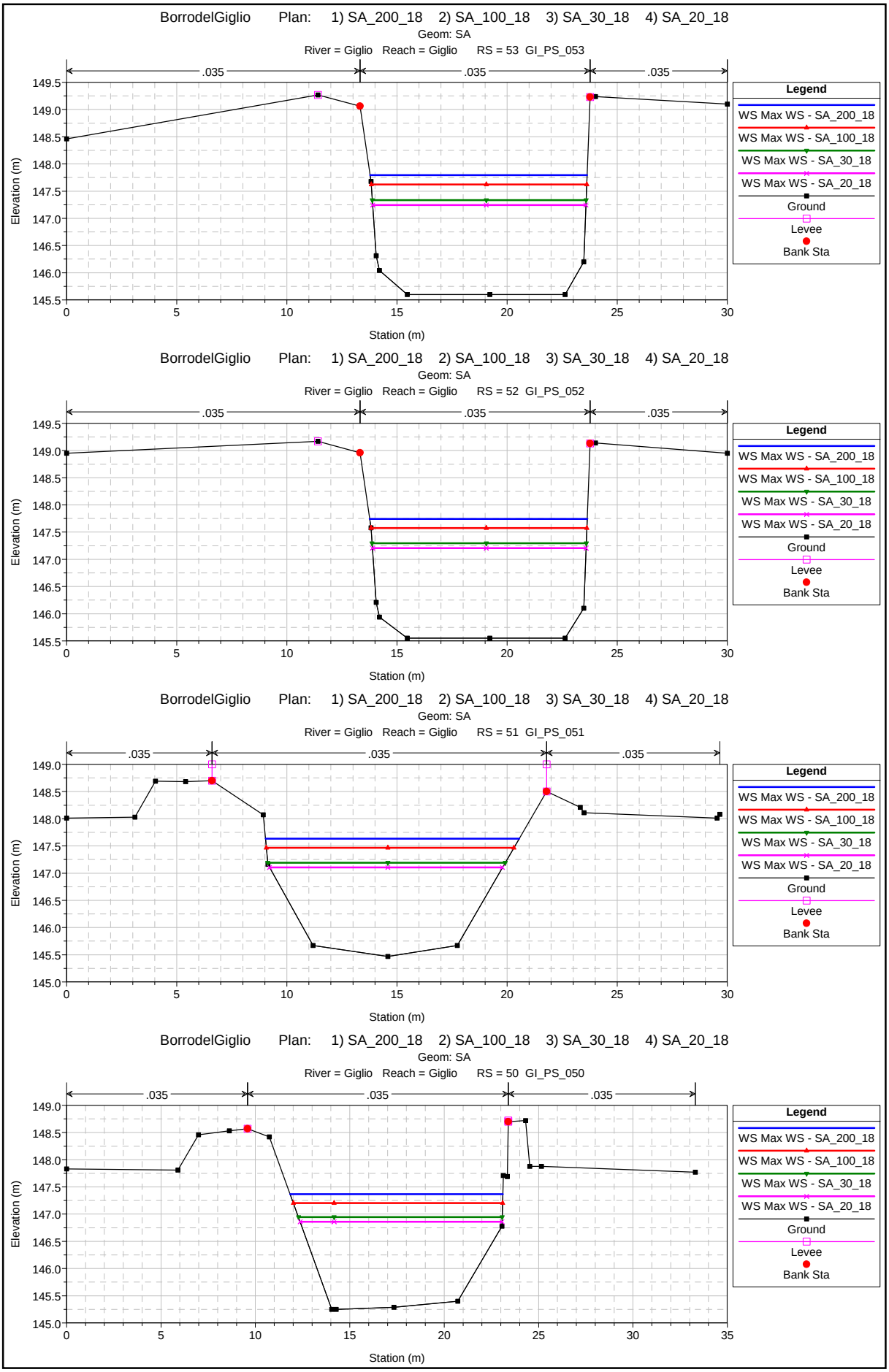


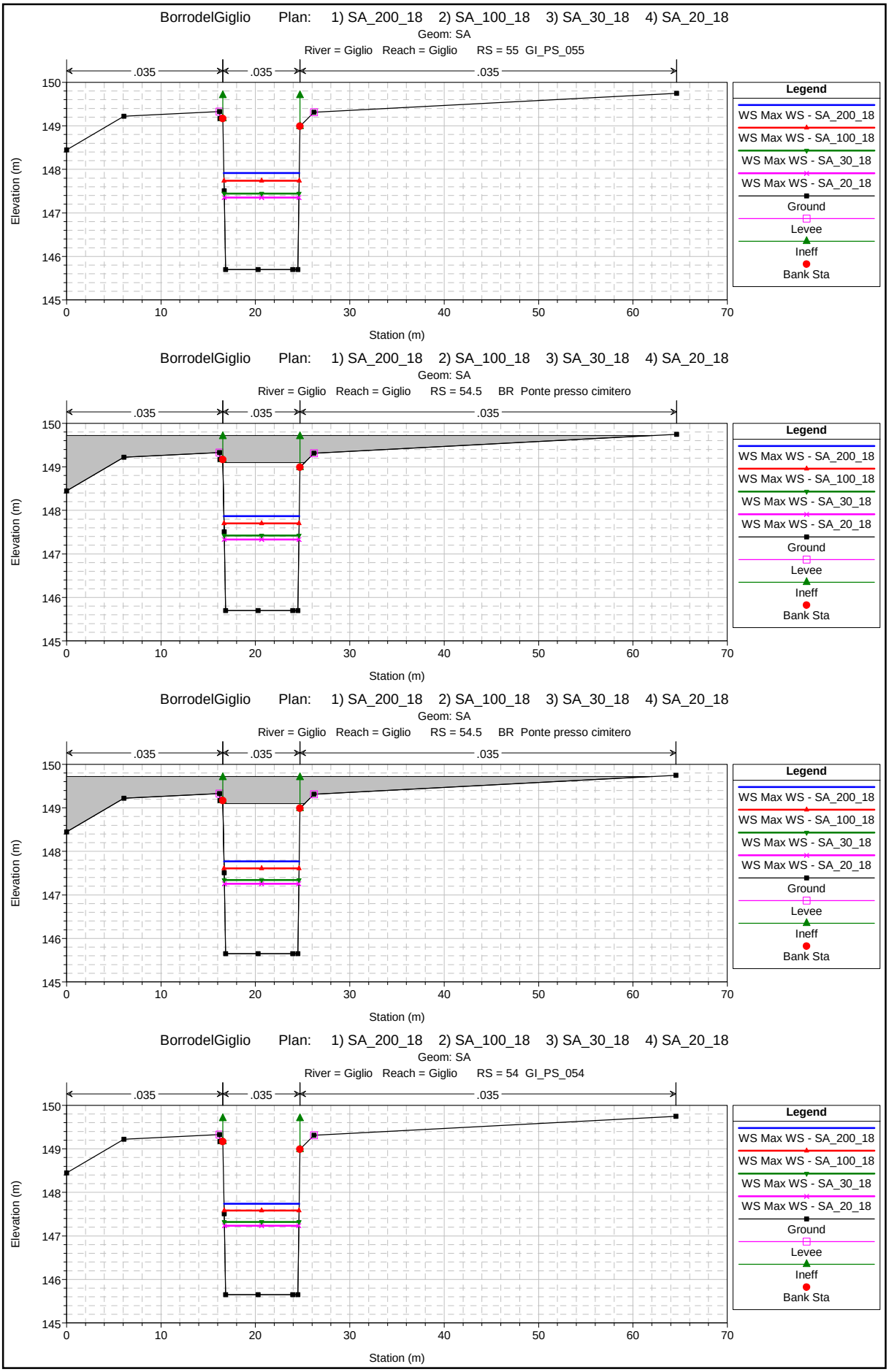
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18

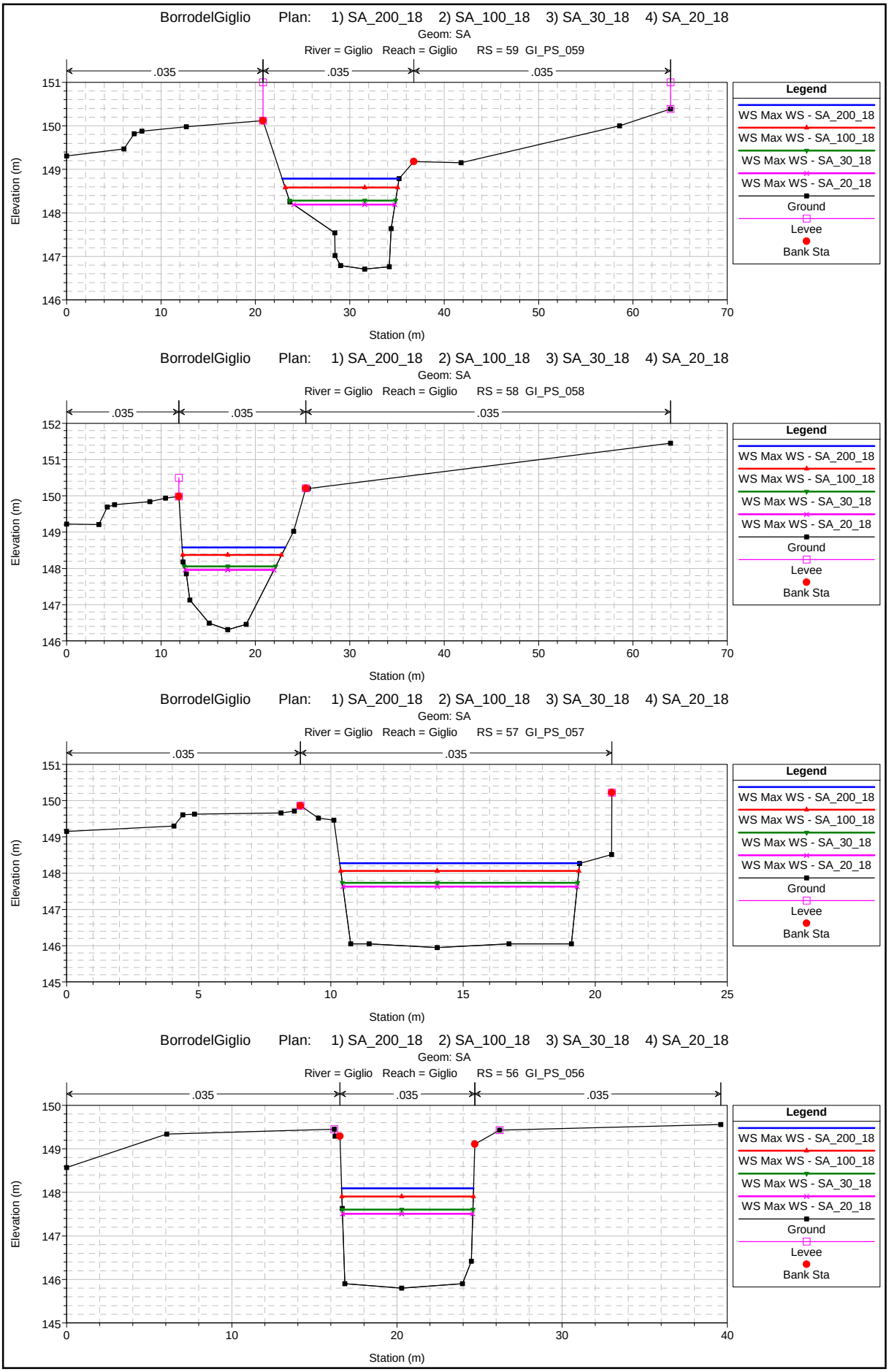
Geom: SA

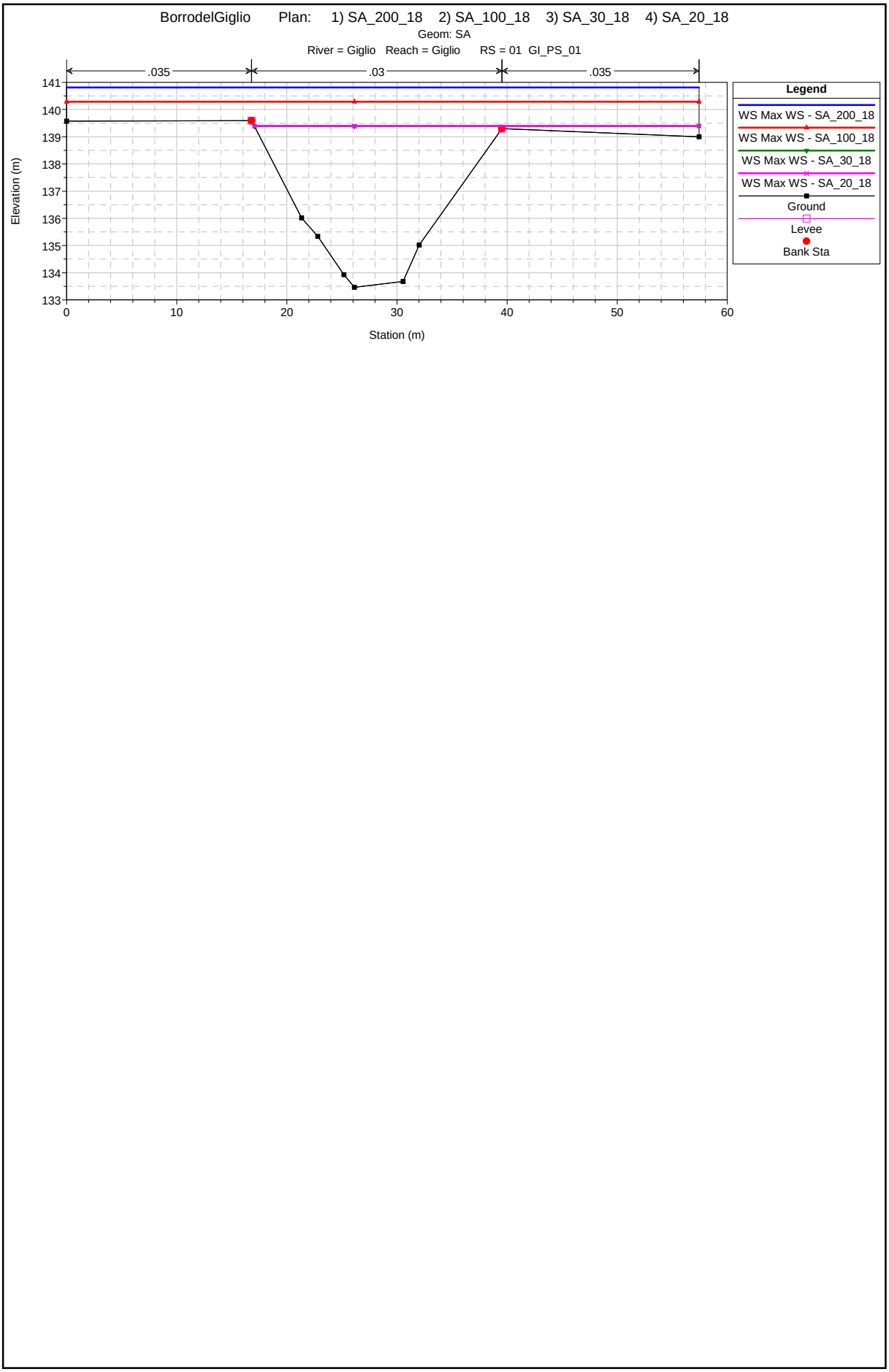
River = Giglio Reach = Giglio RS = 10 GI_PS_10




BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 53 GI_PS_053
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 52 GI_PS_052
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 51 GI_PS_051
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 50 GI_PS_050
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 55 GI_PS_055
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Ineff
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 54.5 BR Ponte presso cimitero
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Ineff
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 54.5 BR Ponte presso cimitero
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Ineff
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 54 GI_PS_054
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Ineff
Bank Sta


BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 59 GI_PS_059
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 58 GI_PS_058
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 57 GI_PS_057
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta
BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 56 GI_PS_056
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta


BorrodelGiglio Plan: 1) SA_200_18 2) SA_100_18 3) SA_30_18 4) SA_20_18
Geom: SA
River = Giglio Reach = Giglio RS = 01 GI_PS_01
.035
.03
.035
Elevation (m)
141
140
139
138
137
136
135
134
133
0
10
20
30
40
50
60
Station (m)
Legend
WS Max WS - SA_200_18
WS Max WS - SA_100_18
WS Max WS - SA_30_18
WS Max WS - SA_20_18
Ground
Levee
Bank Sta

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	59	Max WS	SA_200_18	44.81	146.71	148.79		149.14	0.006896	2.64	16.96	12.39	0.72
Giglio	59	Max WS	SA_100_18	37.71	146.71	148.58		148.93	0.007787	2.60	14.48	11.93	0.75
Giglio	59	Max WS	SA_30_18	27.58	146.71	148.28		148.60	0.009542	2.51	10.98	11.24	0.81
Giglio	59	Max WS	SA_20_18	24.70	146.71	148.19		148.50	0.009919	2.48	9.98	10.72	0.82
Giglio	58	Max WS	SA_200_18	44.81	146.31	148.58		148.92	0.005384	2.60	17.22	10.94	0.66
Giglio	58	Max WS	SA_100_18	37.71	146.31	148.37		148.69	0.005628	2.52	14.98	10.48	0.67
Giglio	58	Max WS	SA_30_18	27.58	146.31	148.05		148.33	0.005918	2.34	11.77	9.68	0.68
Giglio	58	Max WS	SA_20_18	24.70	146.31	147.96		148.22	0.005917	2.27	10.87	9.39	0.67
Giglio	57	Max WS	SA_200_18	44.81	145.95	148.27		148.54	0.003633	2.28	19.64	9.09	0.50
Giglio	57	Max WS	SA_100_18	37.71	145.95	148.06		148.29	0.003443	2.12	17.75	9.01	0.48
Giglio	57	Max WS	SA_30_18	27.58	145.95	147.73		147.91	0.003151	1.87	14.77	8.90	0.46
Giglio	57	Max WS	SA_20_18	24.70	145.95	147.63		147.79	0.003070	1.79	13.83	8.87	0.46
Giglio	56	Max WS	SA_200_18	44.81	145.80	148.10		148.44	0.004856	2.58	17.36	7.99	0.56
Giglio	56	Max WS	SA_100_18	37.71	145.80	147.91		148.20	0.004451	2.38	15.86	7.96	0.54
Giglio	56	Max WS	SA_30_18	27.58	145.80	147.60		147.82	0.003824	2.05	13.46	7.90	0.50
Giglio	56	Max WS	SA_20_18	24.70	145.80	147.51		147.70	0.003632	1.94	12.70	7.89	0.49
Giglio	55	Max WS	SA_200_18	44.81	145.70	147.92	147.21	148.26	0.005056	2.58	17.35	8.00	0.56
Giglio	55	Max WS	SA_100_18	37.71	145.70	147.74	147.05	148.02	0.004585	2.37	15.92	7.97	0.53
Giglio	55	Max WS	SA_30_18	27.58	145.70	147.44	146.79	147.65	0.003878	2.03	13.59	7.92	0.49
Giglio	55	Max WS	SA_20_18	24.70	145.70	147.35	146.72	147.54	0.003665	1.92	12.85	7.91	0.48
Giglio	54.5			Bridge									
Giglio	54	Max WS	SA_200_18	44.81	145.65	147.74		148.12	0.006014	2.74	16.33	7.97	0.61
Giglio	54	Max WS	SA_100_18	37.71	145.65	147.58		147.90	0.005353	2.50	15.09	7.94	0.58
Giglio	54	Max WS	SA_30_18	27.58	145.65	147.32		147.55	0.004415	2.12	13.00	7.90	0.53
Giglio	54	Max WS	SA_20_18	24.70	145.65	147.23		147.44	0.004148	2.00	12.32	7.89	0.51
Giglio	53	Max WS	SA_200_18	44.81	145.60	147.80		148.04	0.003233	2.20	20.40	9.85	0.49
Giglio	53	Max WS	SA_100_18	37.71	145.60	147.62		147.83	0.002954	2.02	18.69	9.79	0.47
Giglio	53	Max WS	SA_30_18	27.58	145.60	147.34		147.49	0.002541	1.73	15.90	9.71	0.43
Giglio	53	Max WS	SA_20_18	24.70	145.60	147.24		147.38	0.002418	1.65	15.01	9.69	0.42
Giglio	52	Max WS	SA_200_18	44.81	145.55	147.74		147.99	0.003229	2.19	20.44	9.88	0.49

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	52	Max WS	SA_100_18	37.71	145.55	147.57		147.78	0.002922	2.01	18.78	9.80	0.46
Giglio	52	Max WS	SA_30_18	27.58	145.55	147.30		147.45	0.002471	1.72	16.08	9.73	0.43
Giglio	52	Max WS	SA_20_18	24.70	145.55	147.21		147.34	0.002337	1.62	15.21	9.70	0.41
Giglio	51.9			Lat Struct									
Giglio	51.8			Lat Struct									
Giglio	51	Max WS	SA_200_18	44.81	145.47	147.63		147.92	0.004262	2.38	18.80	11.52	0.60
Giglio	51	Max WS	SA_100_18	37.71	145.47	147.46		147.72	0.004116	2.23	16.88	11.24	0.58
Giglio	51	Max WS	SA_30_18	27.58	145.47	147.19		147.39	0.003903	1.99	13.86	10.78	0.56
Giglio	51	Max WS	SA_20_18	24.70	145.47	147.10		147.29	0.003822	1.91	12.93	10.58	0.55
Giglio	50	Max WS	SA_200_18	44.81	145.25	147.37		147.65	0.004058	2.35	19.09	11.27	0.58
Giglio	50	Max WS	SA_100_18	37.71	145.25	147.21		147.45	0.003849	2.18	17.28	11.08	0.56
Giglio	50	Max WS	SA_30_18	27.58	145.25	146.94		147.13	0.003507	1.91	14.42	10.79	0.53
Giglio	50	Max WS	SA_20_18	24.70	145.25	146.86		147.03	0.003411	1.83	13.52	10.70	0.52
Giglio	49	Max WS	SA_200_18	44.81	144.77	146.99		147.20	0.003472	2.01	22.25	15.03	0.53
Giglio	49	Max WS	SA_100_18	37.71	144.77	146.81		147.00	0.003386	1.93	19.56	13.88	0.52
Giglio	49	Max WS	SA_30_18	27.58	144.77	146.51		146.67	0.003081	1.75	15.73	12.04	0.49
Giglio	49	Max WS	SA_20_18	24.70	144.77	146.42		146.57	0.002913	1.68	14.68	11.49	0.47
Giglio	48	Max WS	SA_200_18	44.81	144.63	146.70		146.88	0.003058	1.90	23.63	16.79	0.51
Giglio	48	Max WS	SA_100_18	37.71	144.63	146.50		146.67	0.003212	1.85	20.33	15.62	0.52
Giglio	48	Max WS	SA_30_18	27.58	144.63	146.18		146.34	0.003660	1.77	15.62	14.47	0.54
Giglio	48	Max WS	SA_20_18	24.70	144.63	146.09		146.24	0.003817	1.73	14.27	14.12	0.55
Giglio	47	Max WS	SA_200_18	44.81	144.29	146.48		146.70	0.003076	2.07	21.61	13.07	0.51
Giglio	47	Max WS	SA_100_18	37.71	144.29	146.29		146.48	0.003101	1.98	19.06	12.42	0.51
Giglio	47	Max WS	SA_30_18	27.58	144.29	145.98		146.14	0.003154	1.80	15.30	11.88	0.51
Giglio	47	Max WS	SA_20_18	24.70	144.29	145.88		146.04	0.003167	1.74	14.18	11.71	0.51
Giglio	46	Max WS	SA_200_18	44.81	144.01	146.24		146.54	0.004778	2.41	18.63	12.19	0.62
Giglio	46	Max WS	SA_100_18	37.71	144.01	146.04		146.31	0.004806	2.32	16.26	11.45	0.62
Giglio	46	Max WS	SA_30_18	27.58	144.01	145.73		145.97	0.005229	2.16	12.77	10.94	0.64
Giglio	46	Max WS	SA_20_18	24.70	144.01	145.63		145.86	0.005395	2.10	11.74	10.78	0.64

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	45	Max WS	SA_200_18	44.81	143.85	146.25		146.37	0.001438	1.52	29.50	14.68	0.34
Giglio	45	Max WS	SA_100_18	37.71	143.85	146.04		146.14	0.001375	1.43	26.36	14.13	0.33
Giglio	45	Max WS	SA_30_18	27.58	143.85	145.69		145.78	0.001371	1.28	21.50	14.12	0.33
Giglio	45	Max WS	SA_20_18	24.70	143.85	145.59		145.66	0.001386	1.24	19.95	14.12	0.33
Giglio	44.9			Lat Struct									
Giglio	44	Max WS	SA_200_18	44.81	143.65	146.08		146.27	0.008554	1.92	23.29	11.93	0.44
Giglio	44	Max WS	SA_100_18	37.71	143.65	145.88		146.04	0.008172	1.80	20.93	11.57	0.43
Giglio	44	Max WS	SA_30_18	27.58	143.65	145.56		145.69	0.007512	1.59	17.29	11.00	0.41
Giglio	44	Max WS	SA_20_18	24.70	143.65	145.45		145.57	0.007303	1.53	16.17	10.81	0.40
Giglio	43	Max WS	SA_200_18	44.81	143.41	145.76		145.90	0.006042	1.65	27.24	14.79	0.39
Giglio	43	Max WS	SA_100_18	37.71	143.41	145.57		145.69	0.005869	1.54	24.41	14.41	0.38
Giglio	43	Max WS	SA_30_18	27.58	143.41	145.26		145.36	0.005487	1.37	20.07	13.66	0.36
Giglio	43	Max WS	SA_20_18	24.70	143.41	145.16		145.25	0.005383	1.32	18.74	13.46	0.36
Giglio	42	Max WS	SA_200_18	44.81	143.19	145.42		145.56	0.006961	1.61	27.79	18.07	0.41
Giglio	42	Max WS	SA_100_18	37.71	143.19	145.22		145.35	0.007173	1.55	24.28	17.17	0.42
Giglio	42	Max WS	SA_30_18	27.58	143.19	144.91		145.02	0.007465	1.44	19.14	15.76	0.42
Giglio	42	Max WS	SA_20_18	24.70	143.19	144.81		144.91	0.007552	1.40	17.63	15.32	0.42
Giglio	41	Max WS	SA_200_18	44.81	142.76	144.74		145.11	0.014703	2.69	16.64	10.63	0.69
Giglio	41	Max WS	SA_100_18	37.71	142.76	144.57		144.89	0.014450	2.54	14.83	10.33	0.68
Giglio	41	Max WS	SA_30_18	27.58	142.76	144.30		144.56	0.013580	2.26	12.20	9.87	0.65
Giglio	41	Max WS	SA_20_18	24.70	142.76	144.23		144.46	0.013182	2.16	11.43	9.72	0.64
Giglio	40	Max WS	SA_200_18	44.81	142.60	144.69		144.80	0.003445	1.48	30.38	14.65	0.33
Giglio	40	Max WS	SA_100_18	37.71	142.60	144.48		144.58	0.003358	1.38	27.35	14.60	0.32
Giglio	40	Max WS	SA_30_18	27.58	142.60	144.16		144.24	0.003204	1.22	22.66	14.55	0.31
Giglio	40	Max WS	SA_20_18	24.70	142.60	144.06		144.13	0.003161	1.17	21.20	14.55	0.31
Giglio	39	Max WS	SA_200_18	44.81	142.44	144.57	143.41	144.67	0.010254	1.42	31.62	14.92	0.31
Giglio	39	Max WS	SA_100_18	37.71	142.44	144.36	143.31	144.45	0.009855	1.32	28.61	14.90	0.30
Giglio	39	Max WS	SA_30_18	27.58	142.44	144.05	143.15	144.12	0.009137	1.15	23.92	14.89	0.29
Giglio	39	Max WS	SA_20_18	24.70	142.44	143.95	143.10	144.01	0.008903	1.10	22.47	14.89	0.29
Giglio	38.5			Bridge									

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	38	Max WS	SA_200_18	44.81	142.35	143.67		143.93	0.043844	2.26	19.80	14.99	0.63
Giglio	38	Max WS	SA_100_18	37.71	142.35	143.53		143.76	0.044488	2.14	17.66	14.99	0.63
Giglio	38	Max WS	SA_30_18	27.58	142.35	143.35		143.52	0.040145	1.84	14.97	14.98	0.59
Giglio	38	Max WS	SA_20_18	24.70	142.35	143.30		143.45	0.038004	1.74	14.21	14.98	0.57
Giglio	37	Max WS	SA_200_18	44.81	142.20	143.15	143.17	143.66	0.011193	3.15	14.24	15.01	1.03
Giglio	37	Max WS	SA_100_18	37.71	142.20	143.02	143.07	143.50	0.012941	3.09	12.21	15.01	1.09
Giglio	37	Max WS	SA_30_18	27.58	142.20	142.84	142.90	143.26	0.014848	2.86	9.63	15.01	1.14
Giglio	37	Max WS	SA_20_18	24.70	142.20	142.80	142.85	143.19	0.015203	2.77	8.93	15.01	1.14
Giglio	36	Max WS	SA_200_18	44.81	141.85	143.13		143.29	0.002345	1.76	25.50	19.92	0.50
Giglio	36	Max WS	SA_100_18	37.71	141.85	142.95		143.10	0.002729	1.73	21.82	19.90	0.53
Giglio	36	Max WS	SA_30_18	27.58	141.85	142.70		142.84	0.003377	1.64	16.81	19.90	0.57
Giglio	36	Max WS	SA_20_18	24.70	141.85	142.63		142.76	0.003567	1.60	15.44	19.90	0.58
Giglio	35	Max WS	SA_200_18	44.81	141.70	143.09	142.50	143.23	0.000975	1.62	27.63	19.86	0.44
Giglio	35	Max WS	SA_100_18	37.71	141.70	142.89	142.42	143.02	0.001133	1.59	23.65	19.85	0.47
Giglio	35	Max WS	SA_30_18	27.58	141.70	142.60	142.28	142.72	0.001472	1.54	17.93	19.85	0.52
Giglio	35	Max WS	SA_20_18	24.70	141.70	142.52	142.24	142.64	0.001611	1.52	16.29	19.85	0.53
Giglio	34.5			Bridge									
Giglio	34	Max WS	SA_200_18	44.81	141.60	143.07		143.18	0.000798	1.51	29.58	20.40	0.40
Giglio	34	Max WS	SA_100_18	37.71	141.60	142.86		142.97	0.000922	1.49	25.36	20.33	0.42
Giglio	34	Max WS	SA_30_18	27.58	141.60	142.55		142.66	0.001208	1.44	19.16	20.22	0.47
Giglio	34	Max WS	SA_20_18	24.70	141.60	142.46		142.57	0.001328	1.42	17.38	20.19	0.49
Giglio	33	Max WS	SA_200_18	44.81	141.50	143.03		143.14	0.001297	1.45	30.88	20.42	0.38
Giglio	33	Max WS	SA_100_18	37.71	141.50	142.82		142.92	0.001488	1.42	26.51	20.35	0.40
Giglio	33	Max WS	SA_30_18	27.58	141.50	142.50		142.59	0.001962	1.38	19.99	20.24	0.44
Giglio	33	Max WS	SA_20_18	24.70	141.50	142.40		142.50	0.002189	1.37	18.04	20.20	0.46
Giglio	32	Max WS	SA_200_18	44.81	141.00	142.81		143.08	0.003216	2.29	19.55	13.25	0.60
Giglio	32	Max WS	SA_100_18	37.71	141.00	142.59		142.85	0.003535	2.25	16.77	12.62	0.62
Giglio	32	Max WS	SA_30_18	27.58	141.00	142.28		142.51	0.004000	2.13	12.94	11.69	0.65
Giglio	32	Max WS	SA_20_18	24.70	141.00	142.19		142.41	0.004118	2.08	11.89	11.42	0.65

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	31	Max WS	SA_200_18	44.81	140.55	142.31		142.66	0.004341	2.61	17.18	9.75	0.63
Giglio	31	Max WS	SA_100_18	37.71	140.55	142.09		142.41	0.004615	2.51	15.00	9.75	0.65
Giglio	31	Max WS	SA_30_18	27.55	140.55	141.76		142.04	0.005109	2.33	11.80	9.75	0.68
Giglio	31	Max WS	SA_20_18	24.67	140.55	141.67		141.93	0.005260	2.27	10.88	9.75	0.69
Giglio	30	Max WS	SA_200_18	44.81	140.40	142.26		142.53	0.003233	2.33	19.21	10.36	0.55
Giglio	30	Max WS	SA_100_18	37.71	140.40	142.02		142.28	0.003453	2.25	16.75	10.36	0.57
Giglio	30	Max WS	SA_30_18	27.55	140.40	141.66		141.89	0.003949	2.11	13.04	10.35	0.60
Giglio	30	Max WS	SA_20_18	24.67	140.40	141.55		141.77	0.004177	2.07	11.92	10.35	0.62
Giglio	29	Max WS	SA_200_18	44.81	140.23	142.28	141.39	142.47	0.001012	1.90	23.52	11.45	0.42
Giglio	29	Max WS	SA_100_18	37.71	140.23	142.04	141.26	142.21	0.001046	1.82	20.73	11.45	0.43
Giglio	29	Max WS	SA_30_18	27.55	140.23	141.67	141.07	141.81	0.001121	1.67	16.49	11.45	0.44
Giglio	29	Max WS	SA_20_18	24.67	140.23	141.56	141.01	141.69	0.001157	1.62	15.19	11.45	0.45
Giglio	28.5			Bridge									
Giglio	28	Max WS	SA_200_18	44.81	140.10	142.32		142.45	0.000643	1.60	27.98	12.65	0.34
Giglio	28	Max WS	SA_100_18	37.71	140.10	142.07		142.19	0.000650	1.52	24.85	12.64	0.35
Giglio	28	Max WS	SA_30_18	27.55	140.10	141.69		141.79	0.000662	1.37	20.09	12.62	0.35
Giglio	28	Max WS	SA_20_18	24.67	140.10	141.58		141.67	0.000669	1.32	18.63	12.62	0.35
Giglio	27	Max WS	SA_200_18	44.81	140.00	142.28		142.42	0.001267	1.66	27.06	11.86	0.35
Giglio	27	Max WS	SA_100_18	37.71	140.00	142.04		142.16	0.001258	1.56	24.16	11.85	0.35
Giglio	27	Max WS	SA_30_18	27.55	140.00	141.66		141.76	0.001237	1.40	19.73	11.85	0.35
Giglio	27	Max WS	SA_20_18	24.67	140.00	141.55		141.64	0.001233	1.34	18.37	11.85	0.34
Giglio	26	Max WS	SA_200_18	44.81	139.90	142.14		142.38	0.002477	2.18	20.57	9.20	0.47
Giglio	26	Max WS	SA_100_18	37.71	139.90	141.91		142.12	0.002409	2.04	18.44	9.19	0.46
Giglio	26	Max WS	SA_30_18	27.55	139.90	141.56		141.72	0.002268	1.81	15.22	9.19	0.45
Giglio	26	Max WS	SA_20_18	24.67	139.90	141.45		141.60	0.002224	1.73	14.23	9.19	0.44
Giglio	25	Max WS	SA_200_18	44.81	139.85	141.87		142.30	0.005289	2.92	15.36	7.60	0.65
Giglio	25	Max WS	SA_100_18	37.71	139.85	141.67		142.05	0.005090	2.73	13.82	7.60	0.65
Giglio	25	Max WS	SA_30_18	27.54	139.85	141.36		141.65	0.004654	2.40	11.49	7.60	0.62
Giglio	25	Max WS	SA_20_18	24.67	139.85	141.27		141.53	0.004515	2.29	10.78	7.60	0.61
Giglio	24	Max WS	SA_200_18	44.81	139.75	141.60		142.13	0.007039	3.22	13.90	7.54	0.76

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	24	Max WS	SA_100_18	37.71	139.75	141.41		141.88	0.006807	3.02	12.49	7.54	0.75
Giglio	24	Max WS	SA_30_18	27.54	139.75	141.15		141.50	0.006034	2.62	10.51	7.53	0.71
Giglio	24	Max WS	SA_20_18	24.66	139.75	141.07		141.38	0.005786	2.49	9.90	7.53	0.69
Giglio	23	Max WS	SA_200_18	44.80	139.60	141.53		141.75	0.002350	2.06	21.77	11.29	0.47
Giglio	23	Max WS	SA_100_18	37.71	139.60	141.30		141.50	0.002462	1.97	19.12	11.28	0.48
Giglio	23	Max WS	SA_30_18	27.53	139.60	140.99		141.15	0.002401	1.76	15.66	11.25	0.48
Giglio	23	Max WS	SA_20_18	24.65	139.60	140.90		141.04	0.002394	1.69	14.59	11.25	0.47
Giglio	22	Max WS	SA_200_18	44.80	139.50	141.38		141.65	0.003067	2.29	19.57	10.48	0.53
Giglio	22	Max WS	SA_100_18	37.71	139.50	141.14		141.39	0.003289	2.21	17.04	10.46	0.55
Giglio	22	Max WS	SA_30_18	27.52	139.50	140.85		141.04	0.003183	1.97	14.00	10.43	0.54
Giglio	22	Max WS	SA_20_18	24.65	139.50	140.75		140.94	0.003171	1.89	13.05	10.42	0.54
Giglio	21	Max WS	SA_200_18	44.80	139.22	141.31		141.50	0.002039	1.97	22.69	10.96	0.44
Giglio	21	Max WS	SA_100_18	37.70	139.22	141.05		141.24	0.002126	1.89	19.93	10.96	0.45
Giglio	21	Max WS	SA_30_18	27.52	139.22	140.76		140.90	0.001912	1.64	16.76	10.95	0.42
Giglio	21	Max WS	SA_20_18	24.64	139.22	140.67		140.80	0.001849	1.56	15.76	10.95	0.42
Giglio	20	Max WS	SA_200_18	44.79	139.20	141.23		141.44	0.002209	2.03	22.05	10.89	0.46
Giglio	20	Max WS	SA_100_18	37.37	139.20	140.98		141.17	0.002300	1.94	19.27	10.88	0.47
Giglio	20	Max WS	SA_30_18	27.52	139.20	140.70		140.84	0.002095	1.69	16.24	10.87	0.44
Giglio	20	Max WS	SA_20_18	24.64	139.20	140.61		140.74	0.002024	1.61	15.27	10.87	0.43
Giglio	19	Max WS	SA_200_18	44.78	139.10	141.13		141.34	0.002241	2.04	21.90	10.83	0.46
Giglio	19	Max WS	SA_100_18	37.34	139.10	140.87		141.06	0.002357	1.96	19.07	10.82	0.47
Giglio	19	Max WS	SA_30_18	27.52	139.10	140.60		140.75	0.002092	1.70	16.21	10.81	0.44
Giglio	19	Max WS	SA_20_18	24.63	139.10	140.52		140.65	0.001998	1.61	15.31	10.81	0.43
Giglio	18	Max WS	SA_200_18	44.77	139.04	141.05		141.26	0.002302	2.06	21.71	10.82	0.46
Giglio	18	Max WS	SA_100_18	37.33	139.04	140.78		140.98	0.002455	1.98	18.82	10.82	0.48
Giglio	18	Max WS	SA_30_18	27.52	139.04	140.53		140.68	0.002144	1.71	16.09	10.82	0.45
Giglio	18	Max WS	SA_20_18	24.63	139.04	140.45		140.58	0.002029	1.62	15.24	10.82	0.43
Giglio	17	Max WS	SA_200_18	44.73	139.00	140.98		141.21	0.002571	2.15	20.81	10.59	0.49
Giglio	17	Max WS	SA_100_18	37.31	139.00	140.70		140.93	0.002792	2.08	17.93	10.58	0.51
Giglio	17	Max WS	SA_30_18	27.51	139.00	140.47		140.63	0.002399	1.78	15.42	10.58	0.47
Giglio	17	Max WS	SA_20_18	24.63	139.00	140.39		140.54	0.002256	1.68	14.63	10.58	0.46

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	16	Max WS	SA_200_18	43.75	138.95	140.79		141.13	0.004179	2.56	17.08	10.24	0.63
Giglio	16	Max WS	SA_100_18	37.20	138.95	140.45		140.83	0.005945	2.73	13.65	10.18	0.75
Giglio	16	Max WS	SA_30_18	27.49	138.95	140.27		140.55	0.005118	2.34	11.76	10.14	0.69
Giglio	16	Max WS	SA_20_18	24.62	138.95	140.21		140.46	0.004776	2.20	11.20	10.13	0.67
Giglio	15	Max WS	SA_200_18	43.73	138.81	140.78		141.01	0.002434	2.10	20.84	10.64	0.48
Giglio	15	Max WS	SA_100_18	37.10	138.81	140.36		140.62	0.003646	2.27	16.32	10.60	0.58
Giglio	15	Max WS	SA_30_18	27.48	138.81	140.22		140.40	0.002657	1.85	14.87	10.59	0.50
Giglio	15	Max WS	SA_20_18	24.60	138.81	140.18		140.33	0.002327	1.70	14.44	10.58	0.47
Giglio	14	Max WS	SA_200_18	43.75	138.65	140.82	139.78	140.98	0.000791	1.74	25.21	11.60	0.38
Giglio	14	Max WS	SA_100_18	37.14	138.65	140.41	139.67	140.58	0.001079	1.82	20.38	11.60	0.44
Giglio	14	Max WS	SA_30_18	27.48	138.65	140.25	139.48	140.36	0.000784	1.48	18.56	11.60	0.37
Giglio	14	Max WS	SA_20_18	24.60	138.65	140.21	139.42	140.30	0.000686	1.36	18.04	11.60	0.35
Giglio	13.5			Bridge									
Giglio	13	Max WS	SA_200_18	43.75	138.60	140.81		140.96	0.000748	1.70	25.68	11.60	0.37
Giglio	13	Max WS	SA_100_18	37.12	138.60	140.39		140.56	0.001012	1.78	20.80	11.60	0.43
Giglio	13	Max WS	SA_30_18	27.48	138.60	140.24		140.35	0.000726	1.44	19.04	11.60	0.36
Giglio	13	Max WS	SA_20_18	24.62	138.60	140.20		140.29	0.000632	1.33	18.53	11.60	0.34
Giglio	12	Max WS	SA_200_18	43.72	138.44	140.75		140.93	0.001783	1.91	22.86	10.02	0.40
Giglio	12	Max WS	SA_100_18	37.06	138.44	140.31		140.51	0.002385	2.00	18.51	9.98	0.47
Giglio	12	Max WS	SA_30_18	27.48	138.44	140.19		140.32	0.001595	1.59	17.33	9.97	0.38
Giglio	12	Max WS	SA_20_18	24.60	138.44	140.16		140.26	0.001359	1.45	16.98	9.97	0.35
Giglio	11	Max WS	SA_200_18	33.08	138.30	140.69		140.78	0.000823	1.35	24.78	12.28	0.28
Giglio	11	Max WS	SA_100_18	27.90	138.30	140.14		140.25	0.001307	1.49	18.75	10.41	0.35
Giglio	11	Max WS	SA_30_18	27.08	138.30	139.14	139.21	139.66	0.014413	3.22	8.41	10.16	1.13
Giglio	11	Max WS	SA_20_18	22.57	138.30	139.17		139.51	0.008710	2.57	8.79	10.17	0.88
Giglio	10.99			Lat Struct									
Giglio	10	Max WS	SA_200_18	43.78	135.99	140.81		140.83	0.000134	0.68	67.01	20.86	0.11
Giglio	10	Max WS	SA_100_18	36.85	135.99	140.29		140.32	0.000148	0.67	56.38	20.25	0.11
Giglio	10	Max WS	SA_30_18	27.03	135.99	139.40		139.42	0.000141	0.65	41.56	14.51	0.12

HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

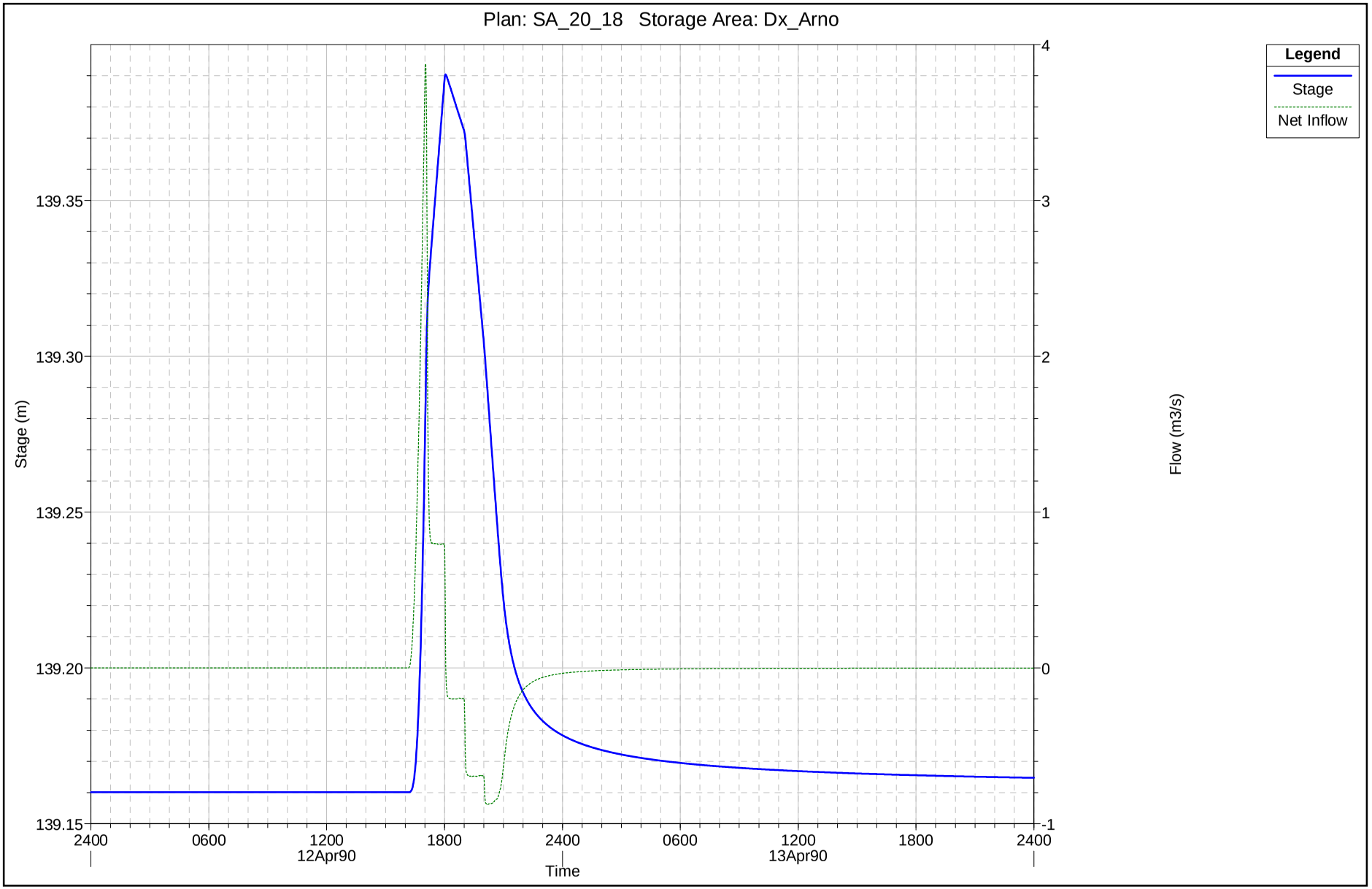
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	10	Max WS	SA_20_18	24.26	135.99	139.40		139.42	0.000114	0.58	41.54	14.51	0.11
Giglio	09	Max WS	SA_200_18	43.49	135.76	140.81		140.83	0.000074	0.63	74.38	26.21	0.10
Giglio	09	Max WS	SA_100_18	36.00	135.76	140.29		140.31	0.000087	0.62	60.98	25.51	0.11
Giglio	09	Max WS	SA_30_18	27.02	135.76	139.39		139.41	0.000137	0.65	41.63	16.90	0.13
Giglio	09	Max WS	SA_20_18	24.22	135.76	139.39		139.41	0.000110	0.58	41.63	16.90	0.12
Giglio	08	Max WS	SA_200_18	43.62	135.29	140.81		140.82	0.000073	0.62	80.90	35.75	0.10
Giglio	08	Max WS	SA_100_18	36.50	135.29	140.28		140.30	0.000094	0.64	62.42	35.11	0.11
Giglio	08	Max WS	SA_30_18	27.02	135.29	139.38		139.41	0.000145	0.68	39.98	15.87	0.14
Giglio	08	Max WS	SA_20_18	24.21	135.29	139.38		139.40	0.000116	0.61	40.01	15.87	0.12
Giglio	07	Max WS	SA_200_18	43.58	135.14	140.81		140.82	0.000044	0.45	100.80	36.37	0.08
Giglio	07	Max WS	SA_100_18	36.71	135.14	140.29		140.30	0.000057	0.46	82.04	35.68	0.09
Giglio	07	Max WS	SA_30_18	27.02	135.14	139.39		139.40	0.000082	0.50	54.25	22.94	0.10
Giglio	07	Max WS	SA_20_18	24.21	135.14	139.39		139.40	0.000066	0.45	54.26	22.95	0.09
Giglio	06	Max WS	SA_200_18	43.23	134.66	140.81		140.82	0.000039	0.43	104.54	36.37	0.08
Giglio	06	Max WS	SA_100_18	36.60	134.66	140.29		140.30	0.000051	0.44	85.78	35.68	0.08
Giglio	06	Max WS	SA_30_18	27.02	134.66	139.39		139.40	0.000068	0.47	58.00	22.94	0.09
Giglio	06	Max WS	SA_20_18	24.21	134.66	139.39		139.40	0.000055	0.42	58.00	22.94	0.08
Giglio	05	Max WS	SA_200_18	42.69	134.03	140.81		140.82	0.000021	0.36	123.96	33.54	0.06
Giglio	05	Max WS	SA_100_18	36.24	134.03	140.29		140.30	0.000023	0.35	106.79	32.46	0.06
Giglio	05	Max WS	SA_30_18	26.94	134.03	139.39		139.40	0.000029	0.35	78.37	30.83	0.06
Giglio	05	Max WS	SA_20_18	24.13	134.03	139.39		139.40	0.000024	0.31	78.35	30.83	0.06
Giglio	04	Max WS	SA_200_18	41.76	133.96	140.81		140.82	0.000019	0.35	125.67	33.12	0.05
Giglio	04	Max WS	SA_100_18	35.56	133.96	140.29		140.30	0.000021	0.34	108.70	32.09	0.06
Giglio	04	Max WS	SA_30_18	26.69	133.96	139.39		139.40	0.000026	0.34	80.59	30.45	0.06
Giglio	04	Max WS	SA_20_18	23.90	133.96	139.39		139.40	0.000021	0.30	80.58	30.44	0.05
Giglio	03	Max WS	SA_200_18	40.38	133.62	140.81		140.82	0.000020	0.37	117.60	31.26	0.06
Giglio	03	Max WS	SA_100_18	34.76	133.62	140.29		140.30	0.000022	0.37	101.50	30.62	0.06
Giglio	03	Max WS	SA_30_18	26.34	133.62	139.39		139.40	0.000028	0.37	74.44	29.51	0.06
Giglio	03	Max WS	SA_20_18	23.54	133.62	139.39		139.40	0.000022	0.33	74.43	29.51	0.06
Giglio	02	Max WS	SA_200_18	39.89	133.58	140.81		140.82	0.000019	0.36	122.96	46.74	0.05

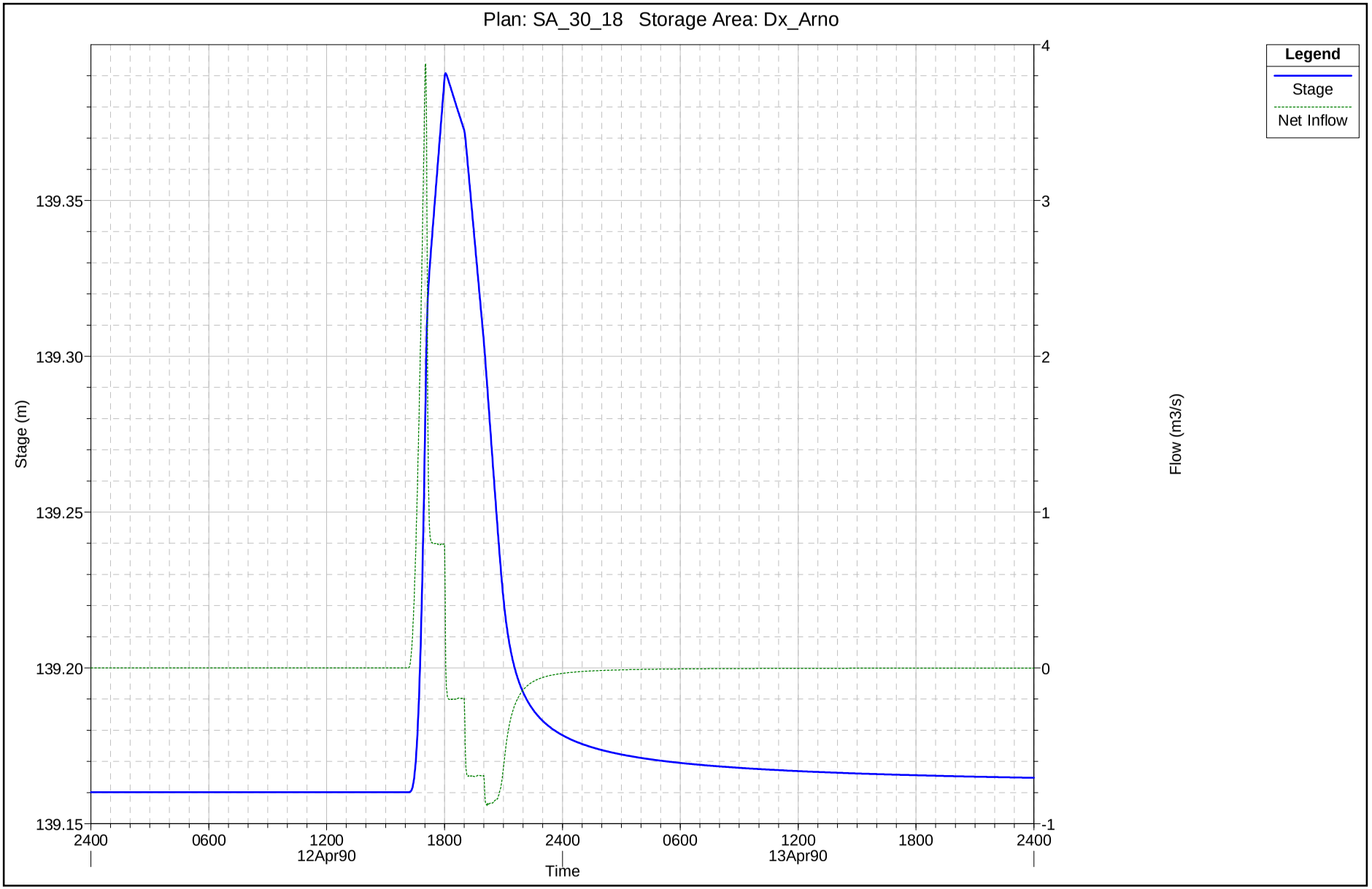
HEC-RAS River: Giglio Reach: Giglio Profile: Max WS (Continued)

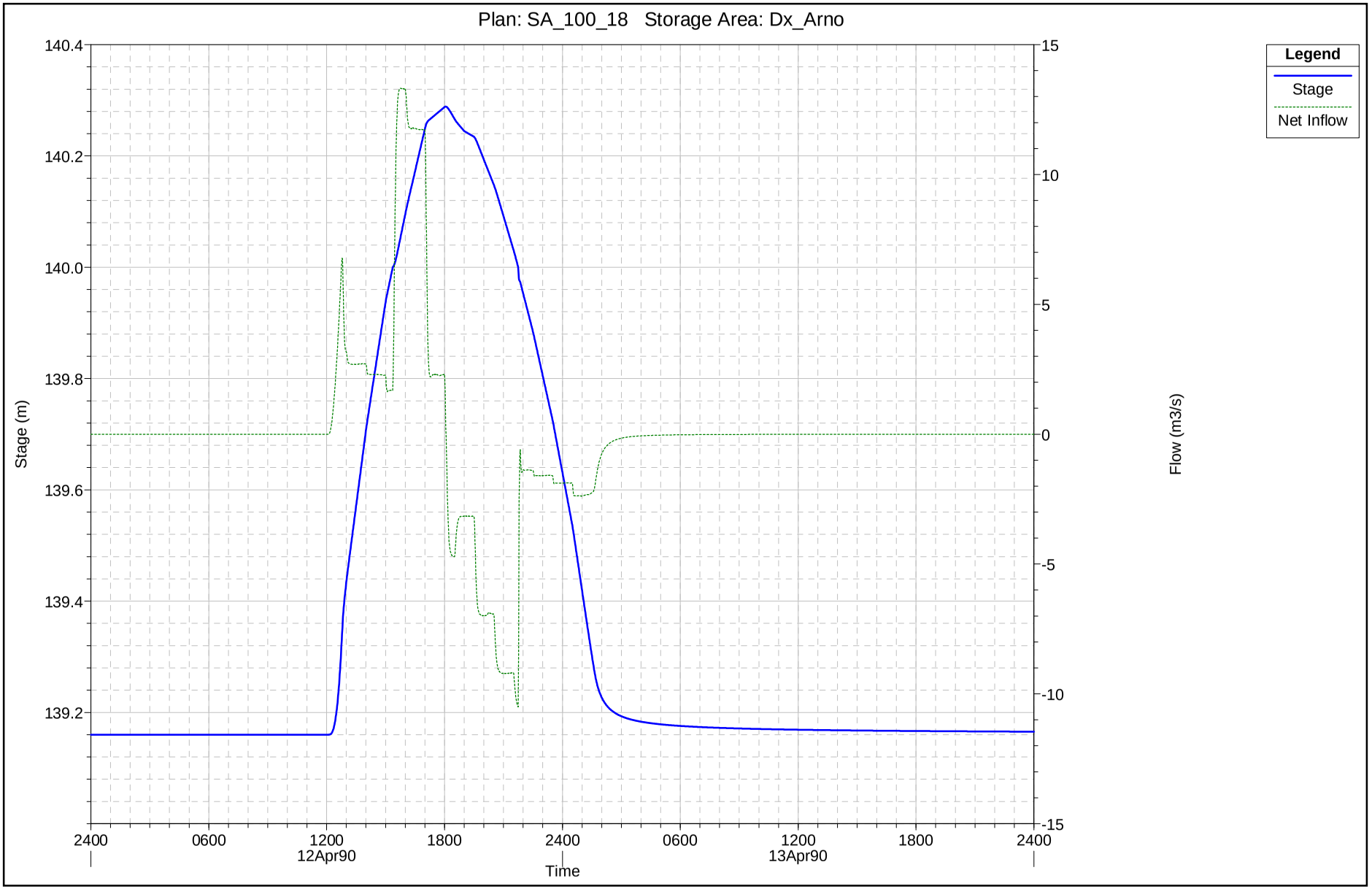
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Giglio	02	Max WS	SA_100_18	34.59	133.58	140.29		140.30	0.000022	0.37	101.94	33.34	0.06
Giglio	02	Max WS	SA_30_18	26.17	133.58	139.39		139.40	0.000028	0.36	72.41	32.22	0.06
Giglio	02	Max WS	SA_20_18	23.43	133.58	139.39		139.40	0.000022	0.33	72.41	32.22	0.06
Giglio	01	Max WS	SA_200_18	39.88	133.46	140.81	135.23	140.81	0.000012	0.30	161.86	57.43	0.04
Giglio	01	Max WS	SA_100_18	34.58	133.46	140.29	135.09	140.29	0.000015	0.31	132.00	57.43	0.05
Giglio	01	Max WS	SA_30_18	26.10	133.46	139.39	134.86	139.40	0.000022	0.33	83.52	40.39	0.06
Giglio	01	Max WS	SA_20_18	23.28	133.46	139.39	134.78	139.39	0.000017	0.29	83.52	40.39	0.05

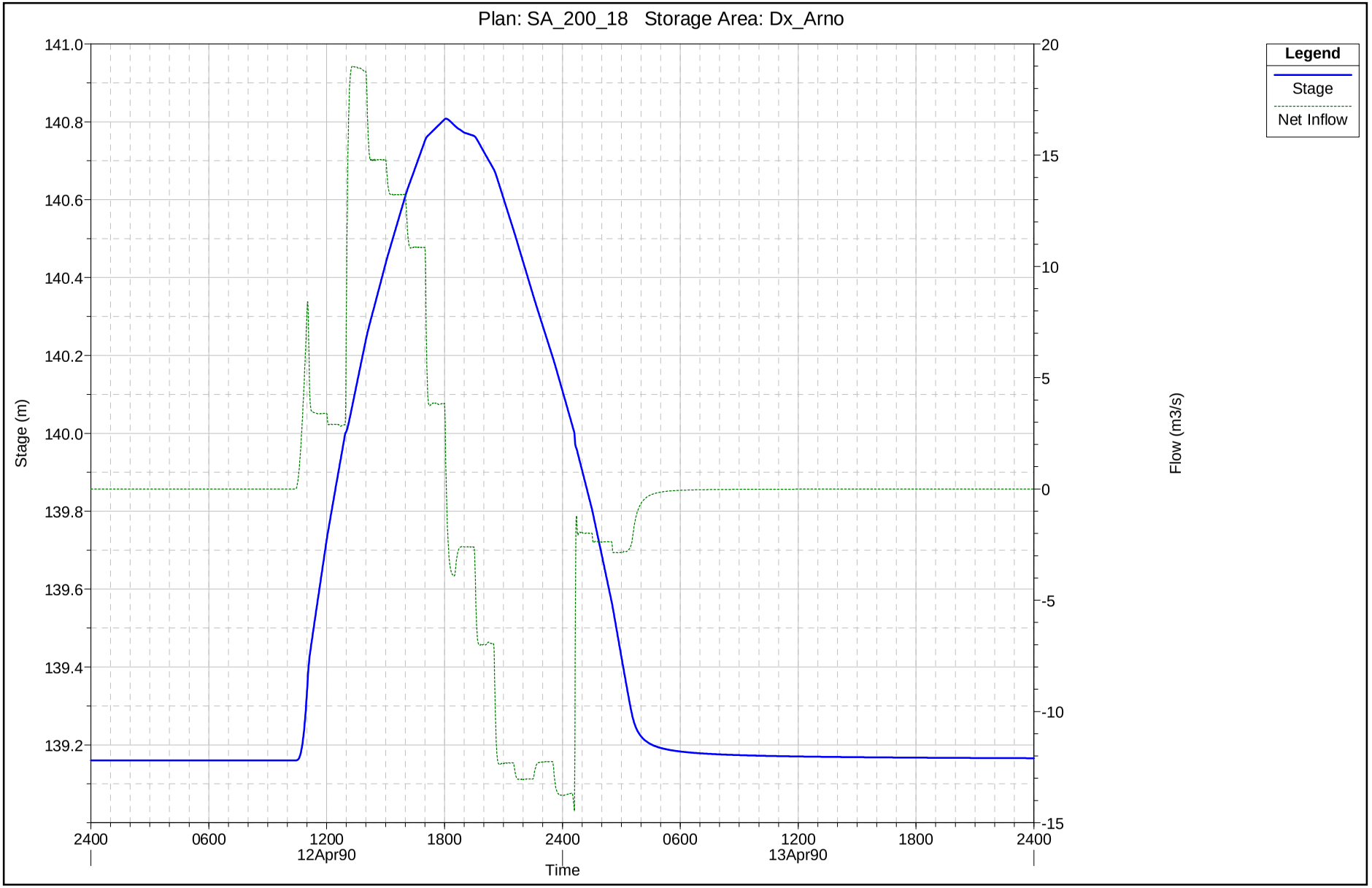
HEC-RAS Profile: Max WS

Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
Dx_Arno	Max WS	SA_200_18	140.81	139.16	2.39	278.42	255.03
Dx_Arno	Max WS	SA_100_18	140.29	139.16	1.40	278.42	110.51
Dx_Arno	Max WS	SA_30_18	139.39	139.16	0.42	35.88	8.28
Dx_Arno	Max WS	SA_20_18	139.39	139.16	0.40	35.88	8.27
Giglio_dx	Max WS	SA_200_18	144.00	144.00	0.00	50.00	0.00
Giglio_dx	Max WS	SA_100_18	144.00	144.00	0.00	50.00	0.00
Giglio_dx	Max WS	SA_30_18	144.00	144.00	0.00	50.00	0.00
Giglio_dx	Max WS	SA_20_18	144.00	144.00	0.00	50.00	0.00
Giglio_dx_valle	Max WS	SA_200_18	145.00	145.00	0.00	9.00	0.00
Giglio_dx_valle	Max WS	SA_100_18	145.00	145.00	0.00	9.00	0.00
Giglio_dx_valle	Max WS	SA_30_18	145.00	145.00	0.00	9.00	0.00
Giglio_dx_valle	Max WS	SA_20_18	145.00	145.00	0.00	9.00	0.00
Giglio_sx	Max WS	SA_200_18	144.00	144.00	0.00	24.01	0.00
Giglio_sx	Max WS	SA_100_18	144.00	144.00	0.00	24.01	0.00
Giglio_sx	Max WS	SA_30_18	144.00	144.00	0.00	24.01	0.00
Giglio_sx	Max WS	SA_20_18	144.00	144.00	0.00	24.01	0.00


Plan: SA_20_18 Storage Area: Dx_Arno
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
139.35
139.30
139.25
139.20
139.15
4
3
2
1
0
-1
2400
0600
1200
1800
2400
0600
1200
1800
2400
12Apr90
13Apr90
Time


Plan: SA_30_18 Storage Area: Dx_Arno
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
139.35
139.30
139.25
139.20
139.15
4
3
2
1
0
-1
2400
0600
1200
1800
2400
0600
1200
1800
2400
12Apr90
13Apr90
Time


Plan: SA_100_18 Storage Area: Dx_Arno
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
140.4
140.2
140.0
139.8
139.6
139.4
139.2
15
10
5
0
-5
-10
-15
2400
0600
1200
1800
2400
0600
1200
1800
2400
12Apr90
13Apr90
Time


Plan: SA_200_18 Storage Area: Dx_Arno
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
141.0
140.8
140.6
140.4
140.2
140.0
139.8
139.6
139.4
139.2
20
15
10
5
0
-5
-10
-15
2400
0600
1200
1800
2400
0600
1200
1800
2400
12Apr90
13Apr90
Time



comune di montevarchi - provincia di arezzo

avvio del procedimento Del.C.C. n.55 del 15.05.2008
valutazione iniziale Del.G.C. n.171 del 17.07.2008
valutazione intermedia e rapporto ambientale preliminare Del.C.C. n.47 del 29.05.2009
relazione di sintesi finale - rapporto ambientale Del.G.C. n.251del 29.10.2009
rapporto ambientale - relazione di sintesi non tecnica Del.C.C. n..... del .....
adozione Del.C.C. n..... del .....

variante di adeguamento
alla disciplina urbanistica regionale e ai contenuti dell'art.55 co.6 della L.R.1/2005

RELAZIONE IDRAULICA - ALLEGATO 2 - VOLUME II

PIANO STRUTTURALE

dicembre 2009



comune di montevarchi - provincia di arezzo

Sindaco	*Giorgio Valentini*
Assessore	*Moreno Grassi*
Responsabile del procedimento	*Domenico Scrascia*
Garante della comunicazione	*Francesca Barucci*
Progetto	*Stefania Fanfani*
	Domenico Scrascia
Sistema informativo	*Ugo Fabbri*
Ufficio di piano	*Gabriele Banchetti*
	Stefano Borchi
Indagini geologiche ed idrauliche	*Claudia Lombardi*
	Roberto Nevini
	Michele Sani

RELAZIONE IDRAULICA - ALLEGATO 2 - VOLUME II

PIANO STRUTTURALE

dicembre 2009

verifiche idrauliche stato attuale

volume I

borro del Quercio
borro dello Spedaluzzo
borro del Giglio

volume II

borro della Sabina
borro del Caspri
borro della Dogana
borro dell'Ornaccio

volume III

borro del Valdilago
torrente Caposelvi (loc. Mercatale)
torrente Caposelvi
torrente Ambra

verifiche idrauliche stato attuale - volume II

- borro della Sabina
- borro del Caspri
- borro della Dogana
- borro dell'Ornaccio

borro della Sabina

verifiche con Tpioggia critico per il Borro della Sabina

- moto vario

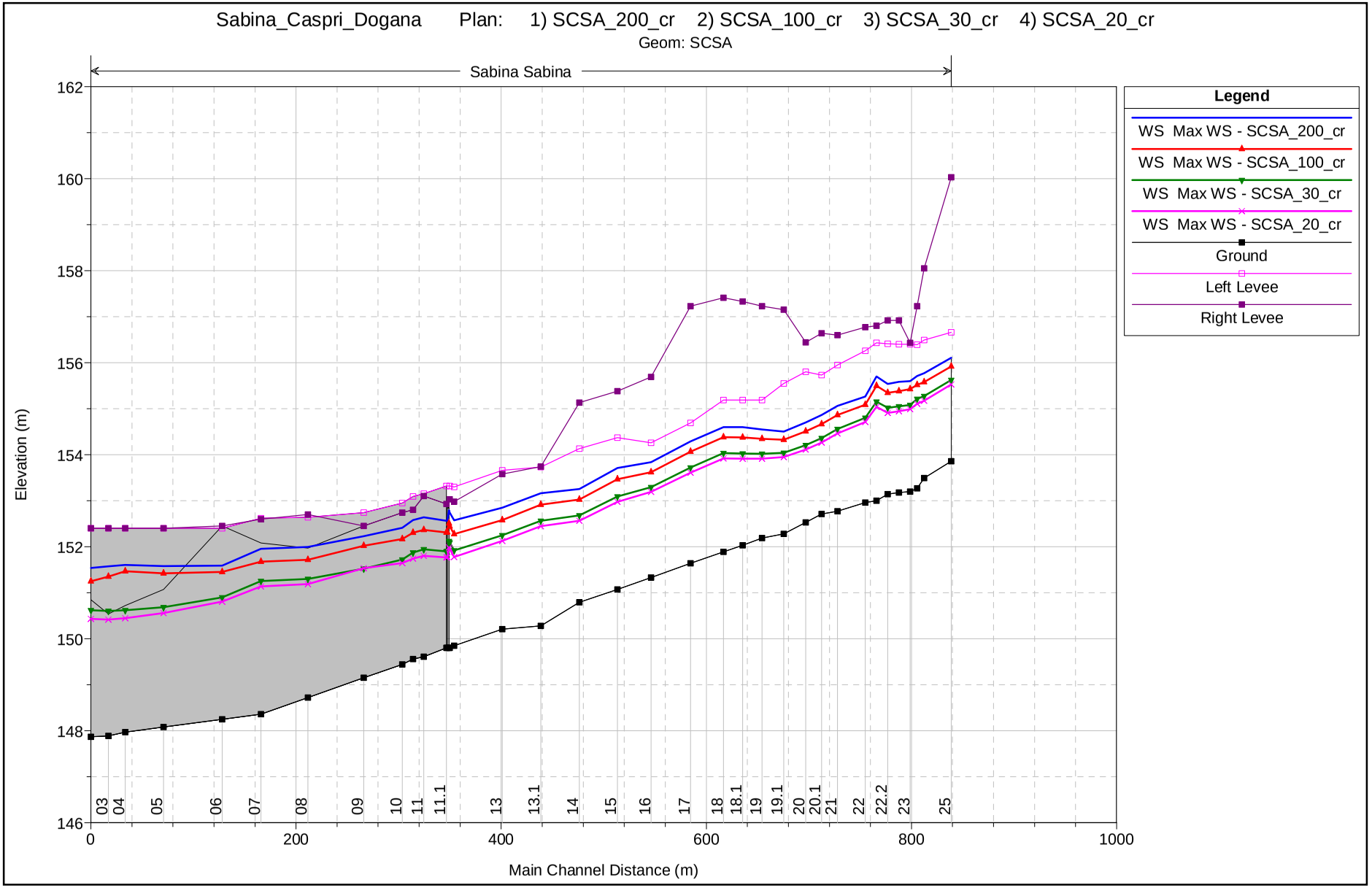
  Tr=200, 100, 30 e 20 anni

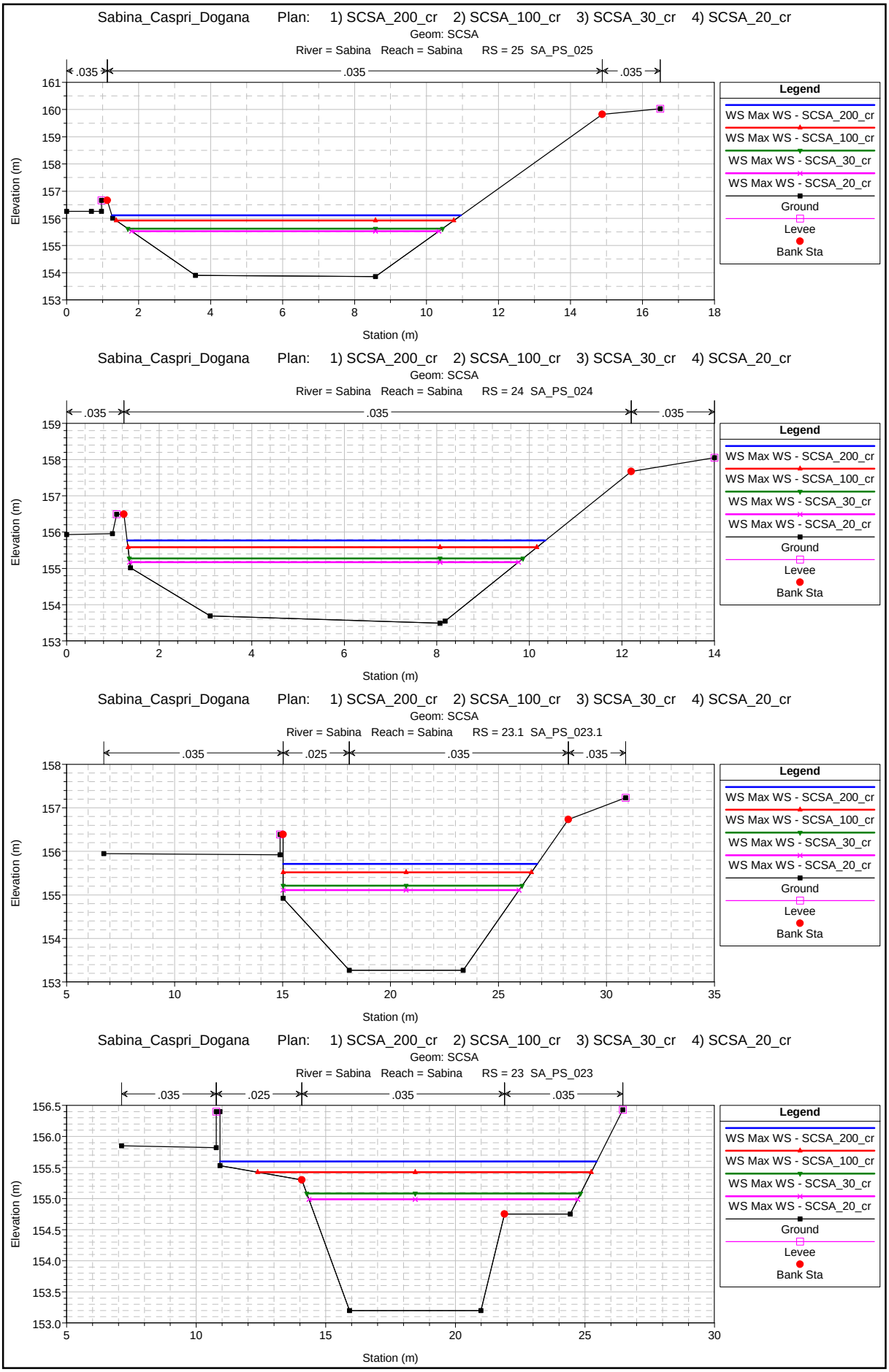
  profilo

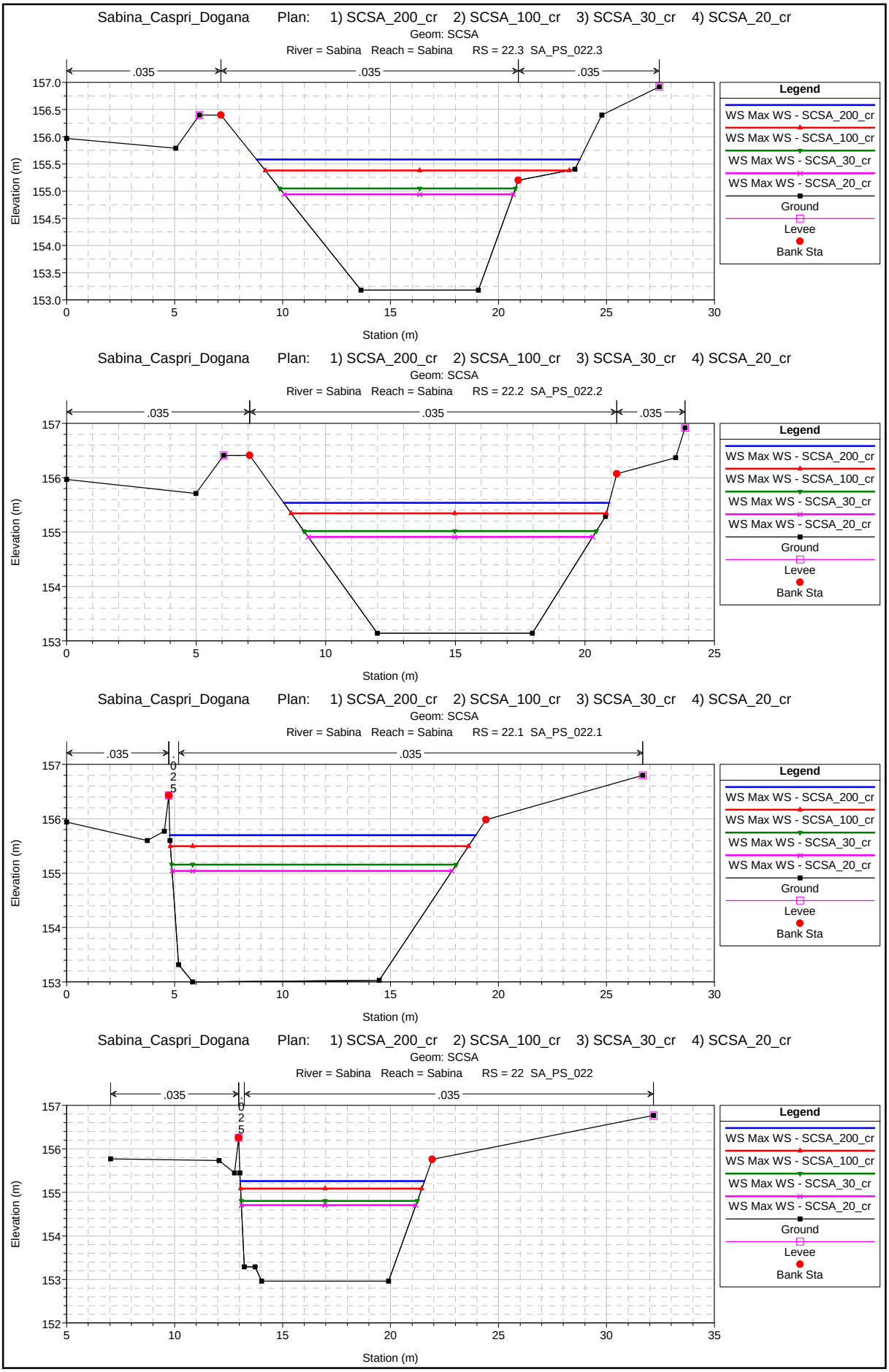
  livelli idrici nelle sezioni di verifica

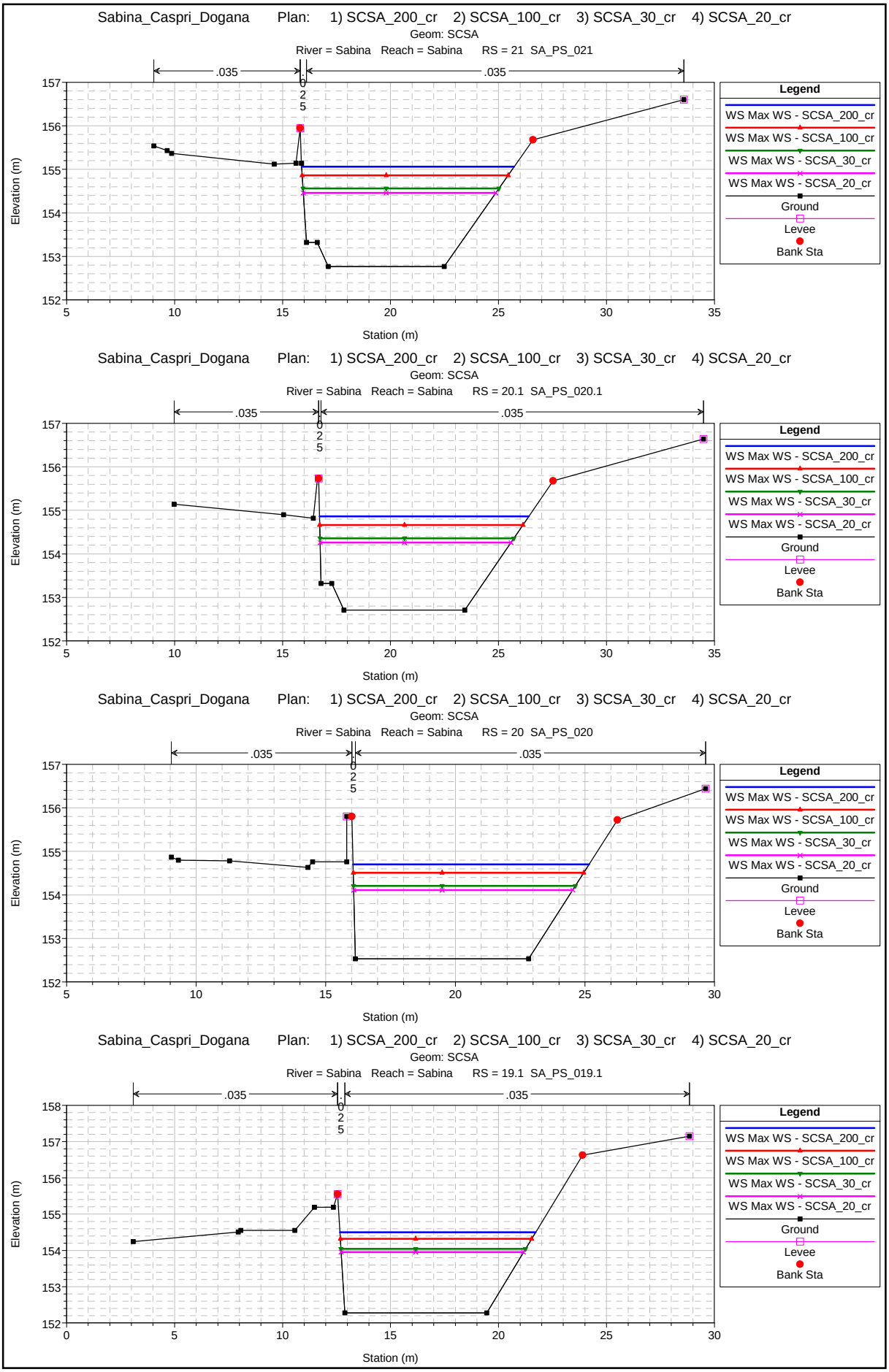
  tabella di output del software Hec-ras 4.0

  livelli e portate in ingresso alle aree di accumulo


Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
Sabina Sabina
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
162
160
158
156
154
152
150
148
146
0
200
400
600
800
1000
03
04
05
06
07
08
09
10
11
11.1
13
13.1
14
15
16
17
18
18.1
19
19.1
20
20.1
21
22
22.2
23
25


Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 25 SA_PS_025
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 24 SA_PS_024
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 23.1 SA_PS_023.1
.035
.025
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 23 SA_PS_023
.035
.025
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta

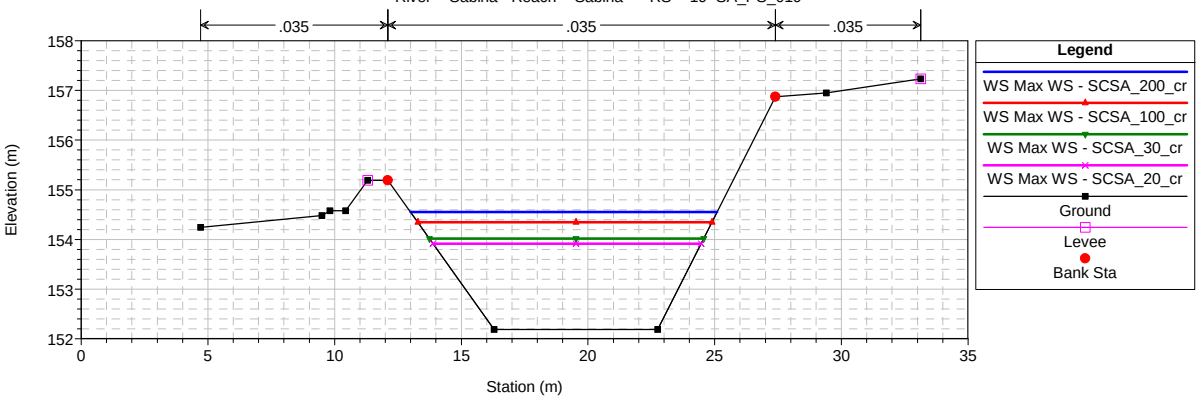

Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 22.3 SA_PS_022.3
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 22.2 SA_PS_022.2
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 22.1 SA_PS_022.1
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 22 SA_PS_022
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta


Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 21 SA_PS_021
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 20.1 SA_PS_020.1
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 20 SA_PS_020
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 19.1 SA_PS_019.1
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta

Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

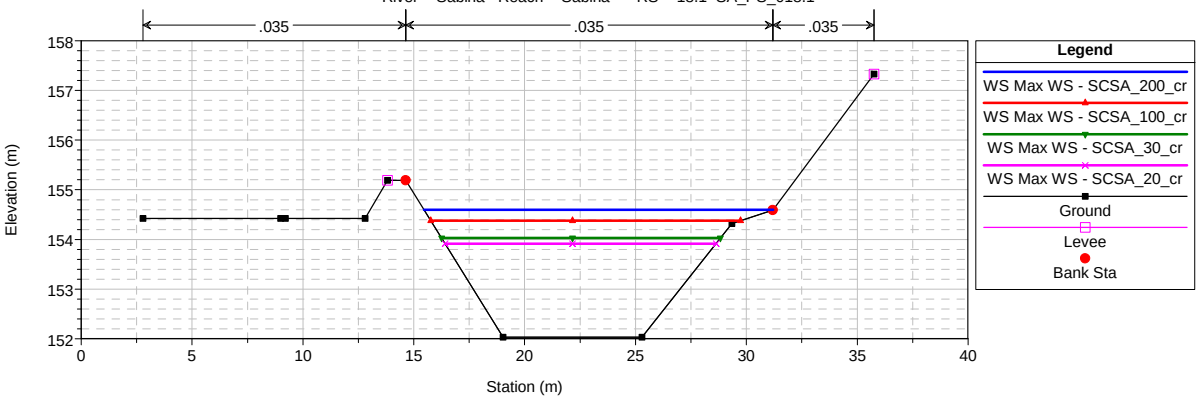
River = Sabina Reach = Sabina RS = 19 SA_PS_019



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

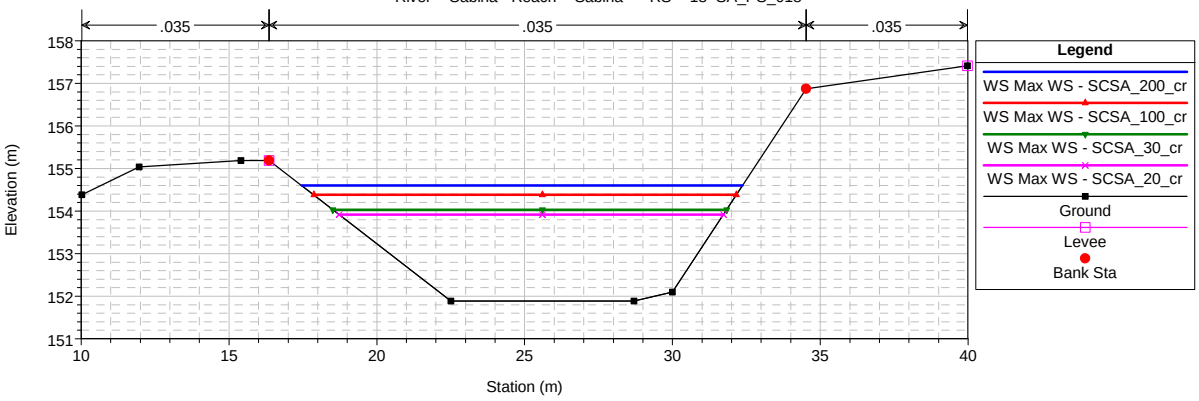
River = Sabina Reach = Sabina RS = 18.1 SA_PS_018.1



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

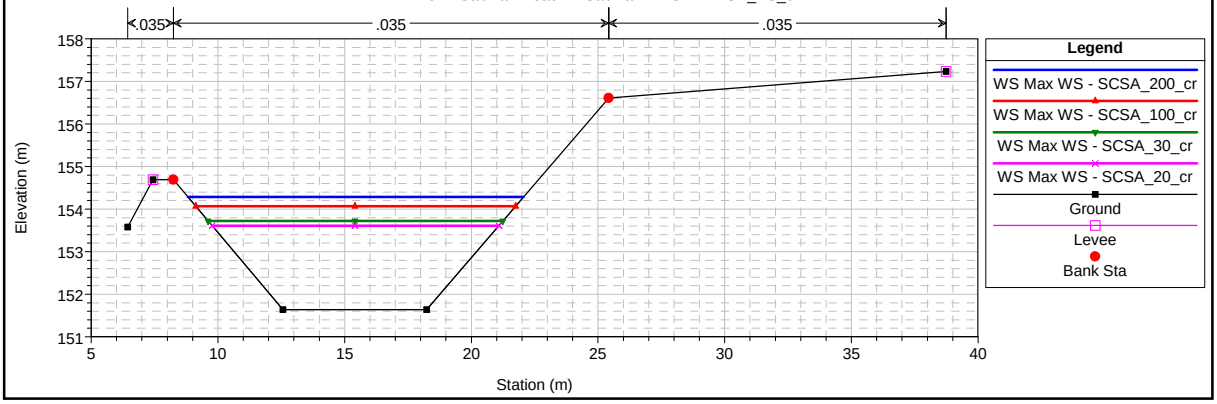
River = Sabina Reach = Sabina RS = 18 SA_PS_018



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

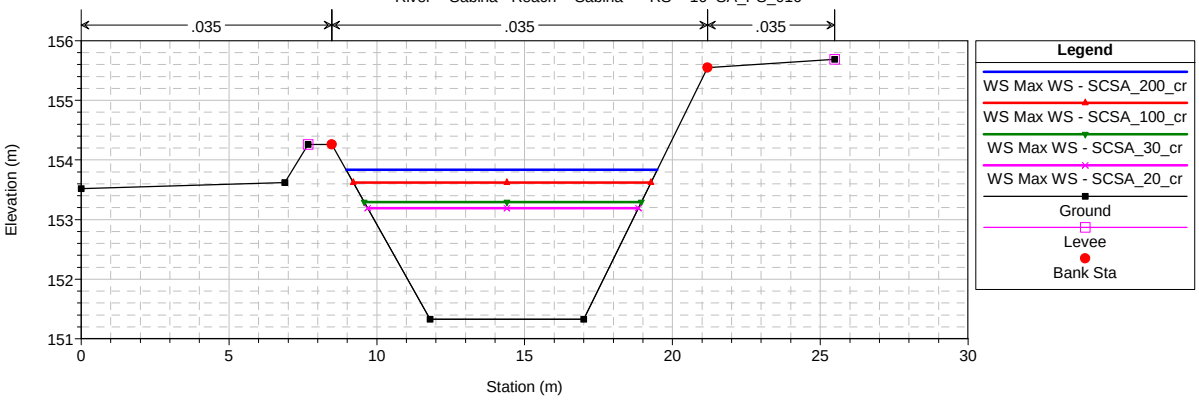
River = Sabina Reach = Sabina RS = 17 SA_PS_017



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

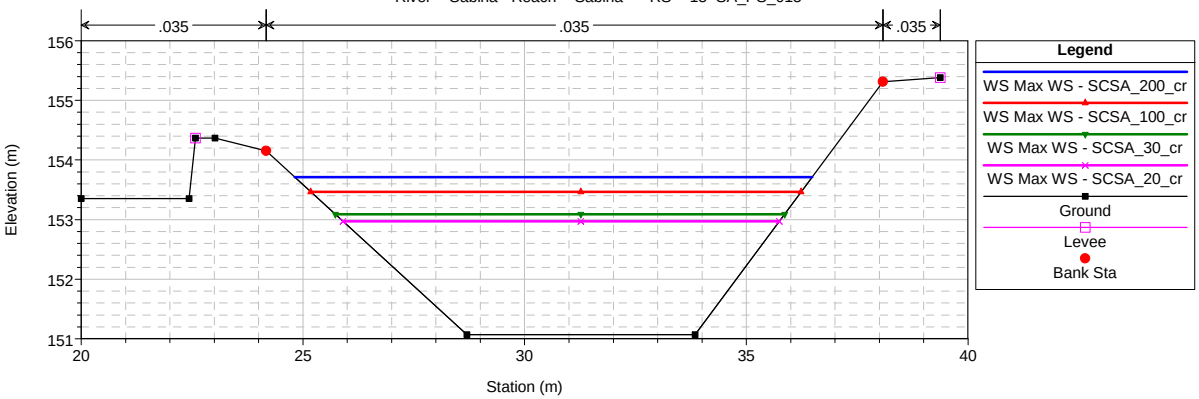
River = Sabina Reach = Sabina RS = 16 SA_PS_016



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

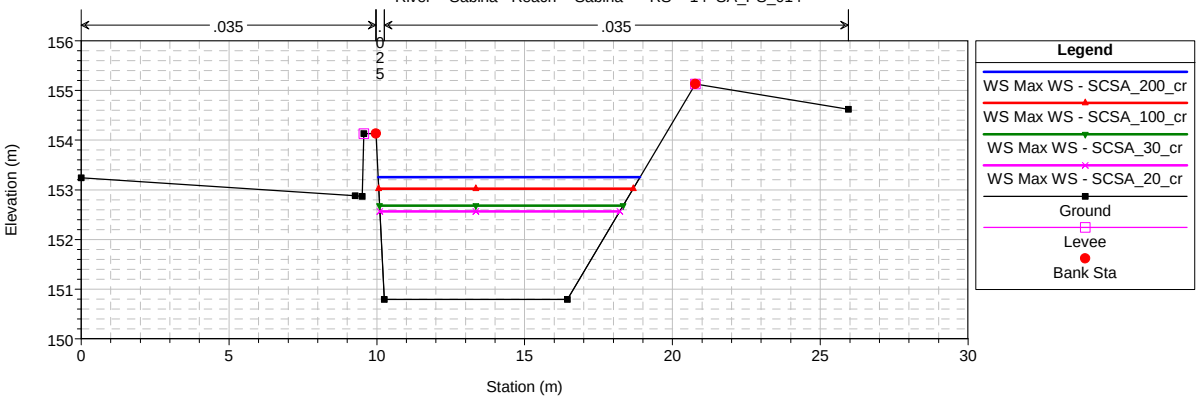
River = Sabina Reach = Sabina RS = 15 SA_PS_015



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

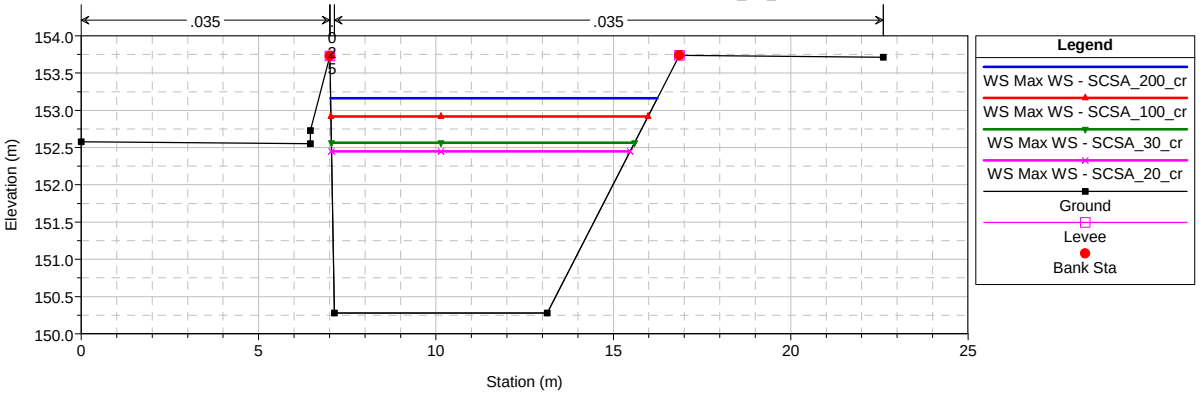
River = Sabina Reach = Sabina RS = 14 SA_PS_014



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

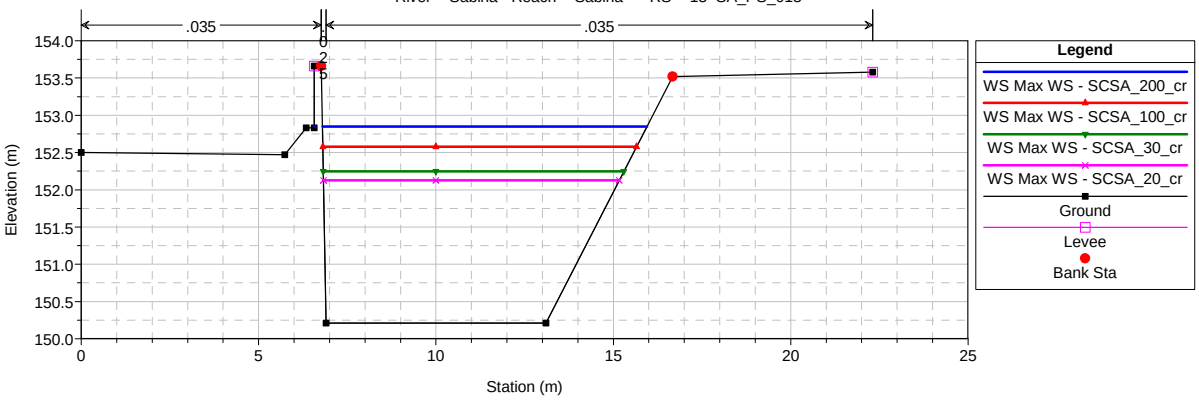
River = Sabina Reach = Sabina RS = 13.1 SA_PS_013.1



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

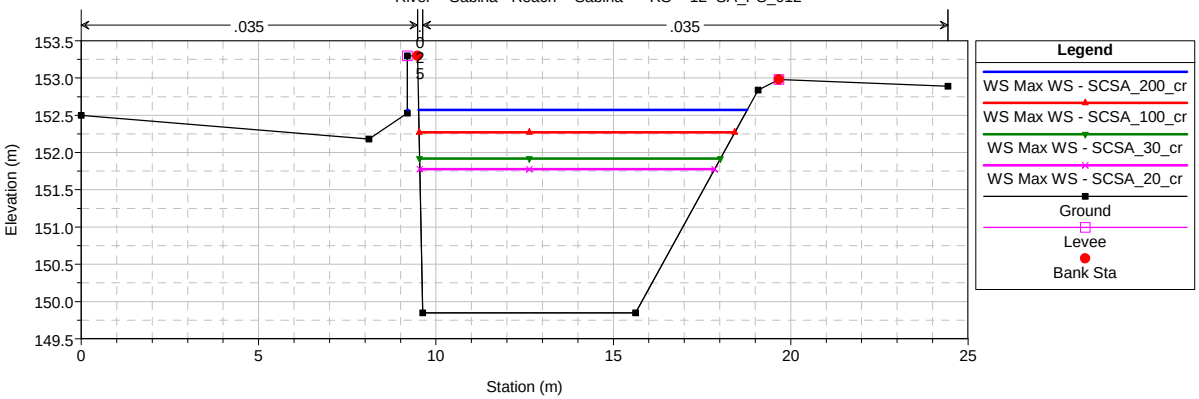
River = Sabina Reach = Sabina RS = 13 SA_PS_013



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

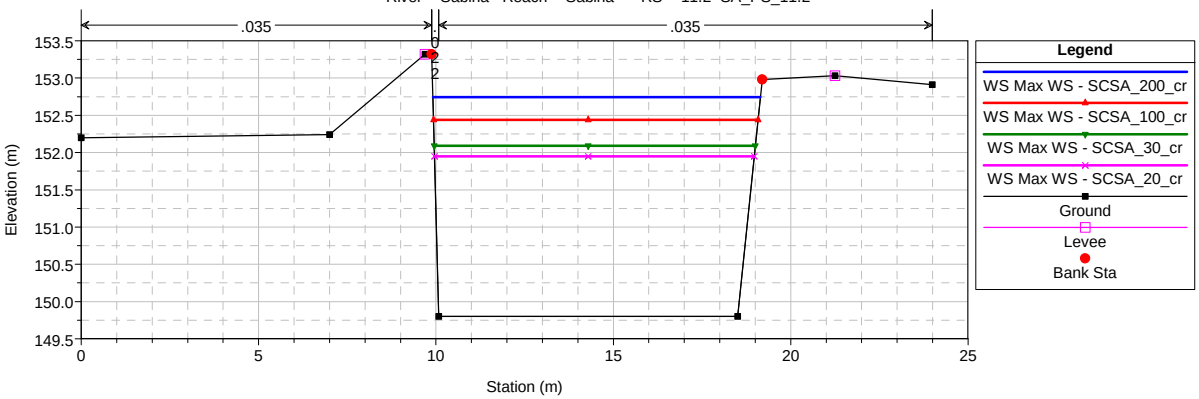
River = Sabina Reach = Sabina RS = 12 SA_PS_012



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

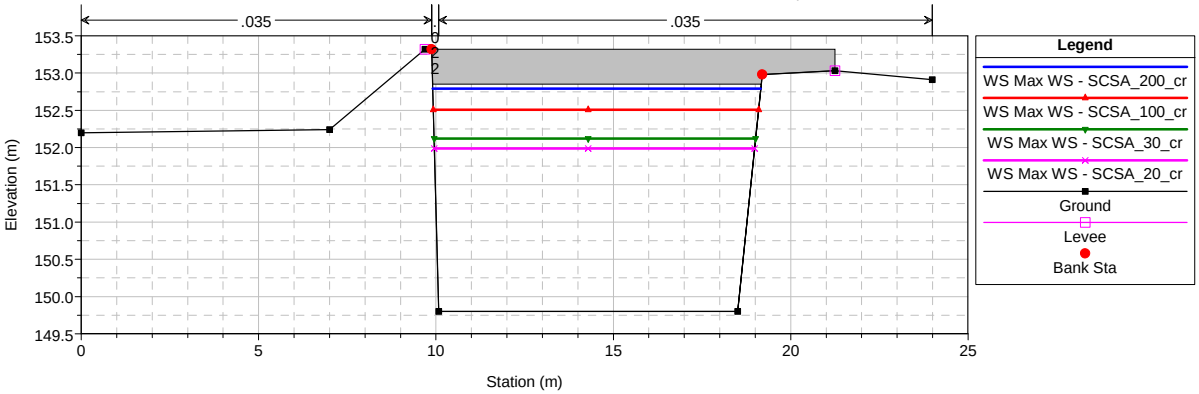
River = Sabina Reach = Sabina RS = 11.2 SA_PS_11.2



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

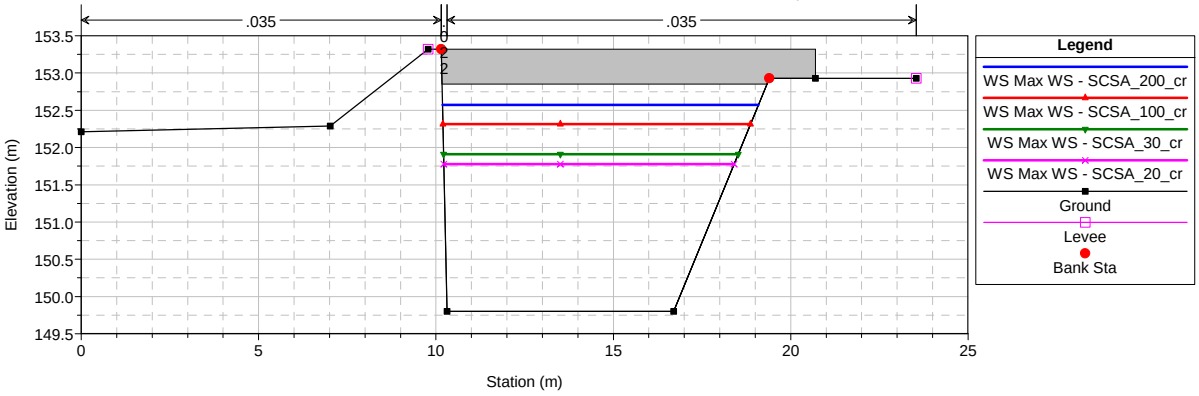
River = Sabina Reach = Sabina RS = 11.15 BR Passerella pedonale



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

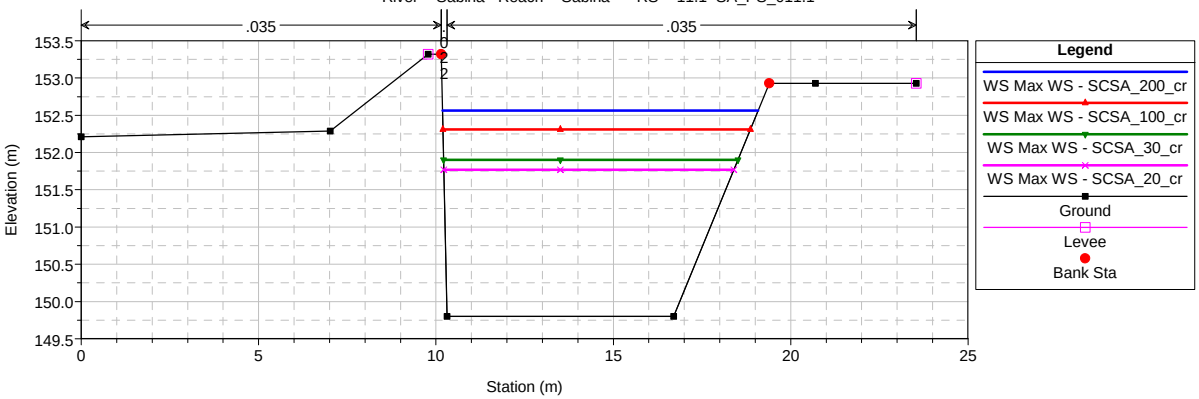
River = Sabina Reach = Sabina RS = 11.15 BR Passerella pedonale



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

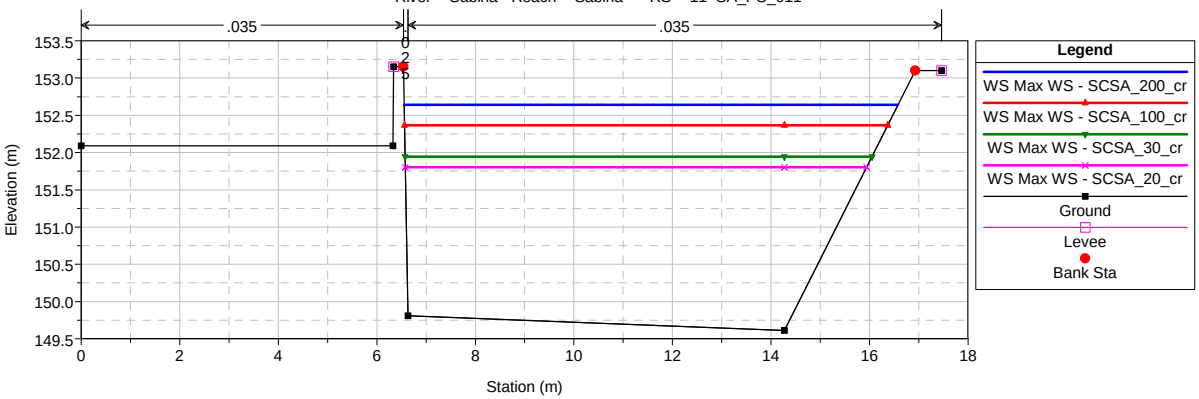
River = Sabina Reach = Sabina RS = 11.1 SA_PS_011.1



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

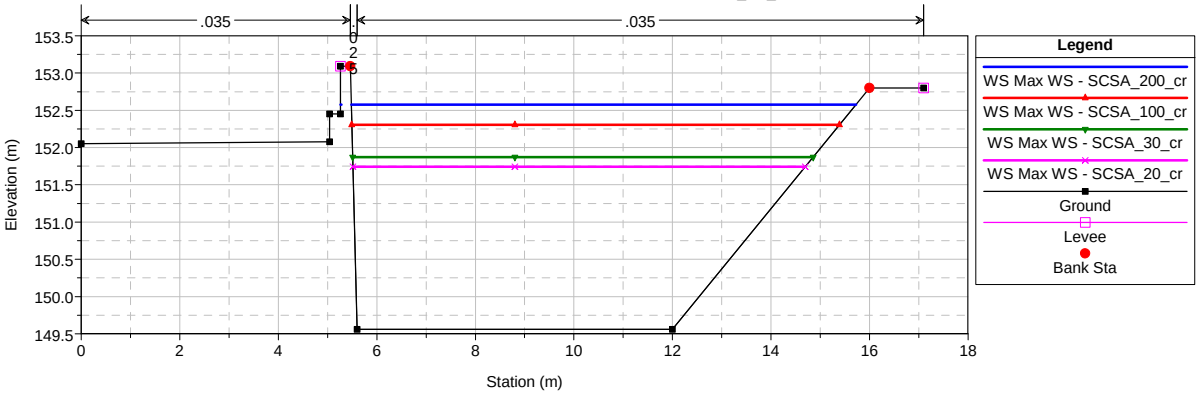
River = Sabina Reach = Sabina RS = 11 SA_PS_011



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

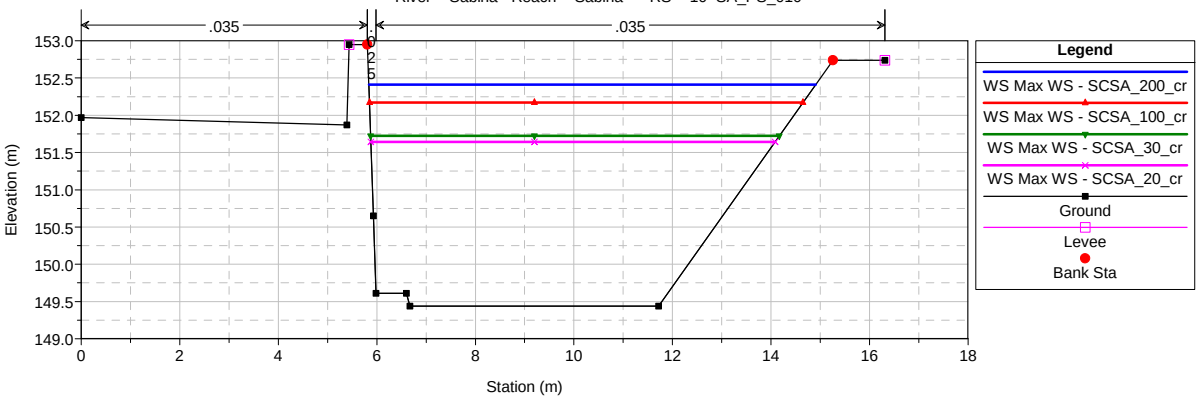
River = Sabina Reach = Sabina RS = 10.1 SA_PS_010.1



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

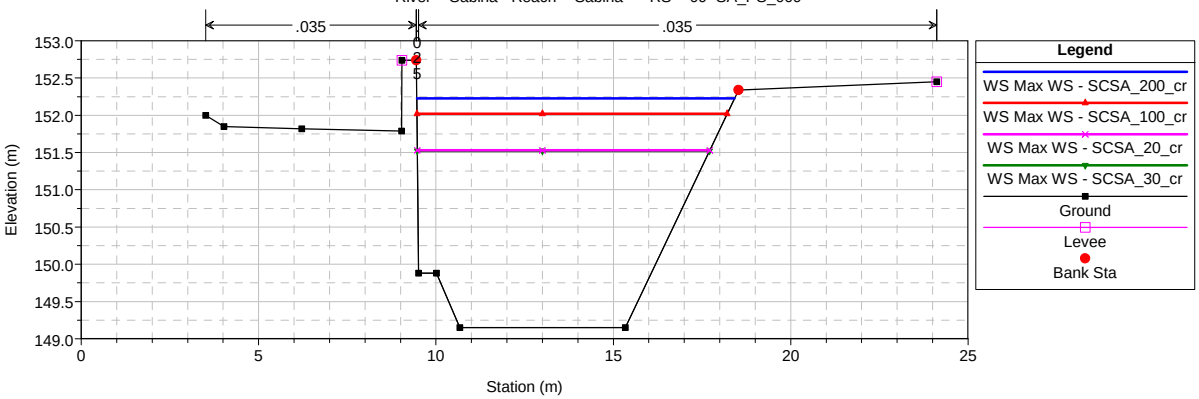
River = Sabina Reach = Sabina RS = 10 SA_PS_010



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

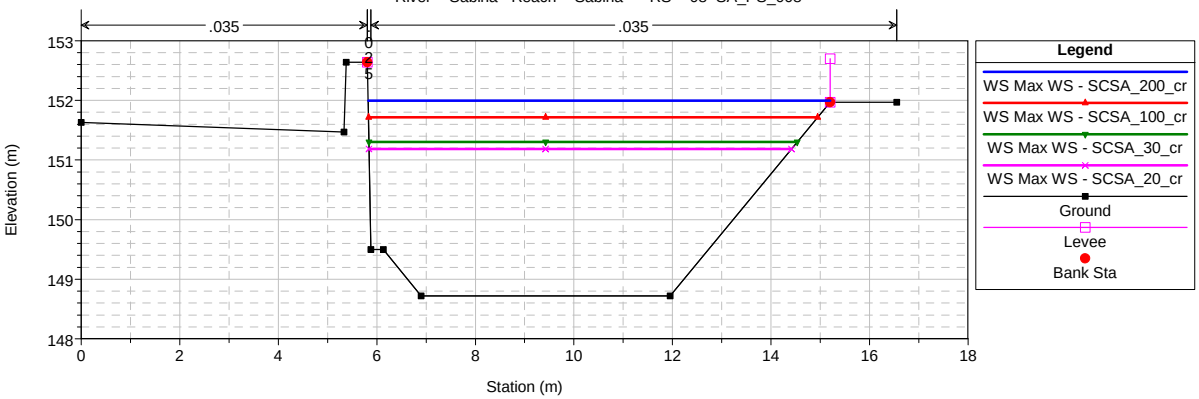
River = Sabina Reach = Sabina RS = 09 SA_PS_009



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

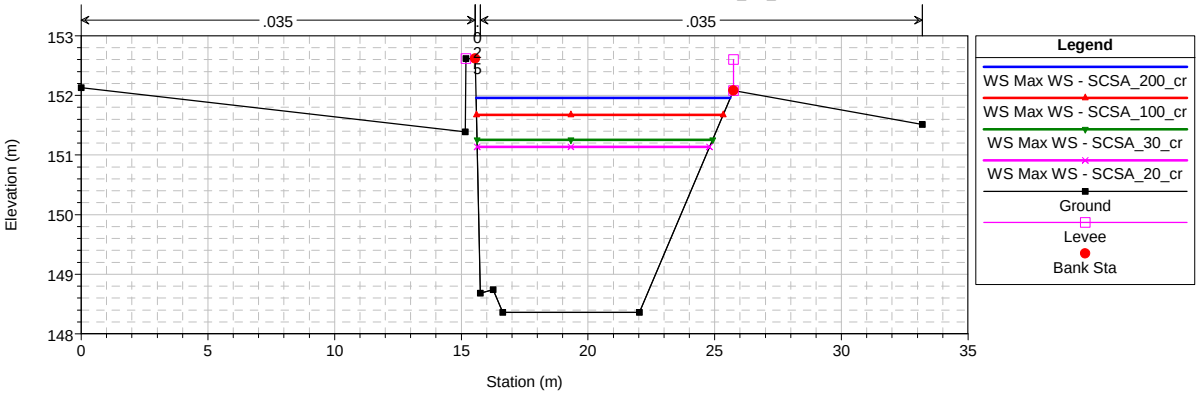
River = Sabina Reach = Sabina RS = 08 SA_PS_008

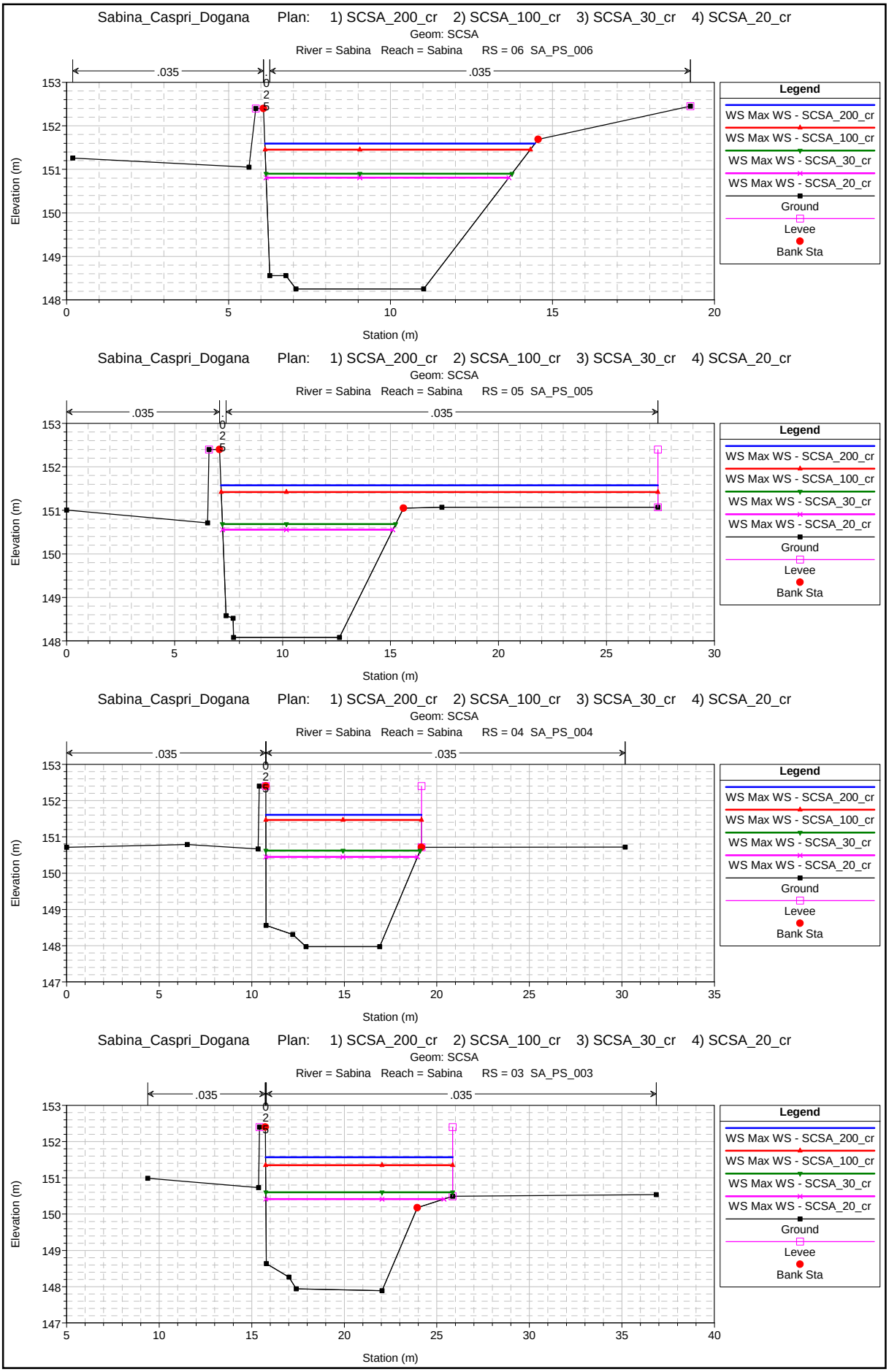


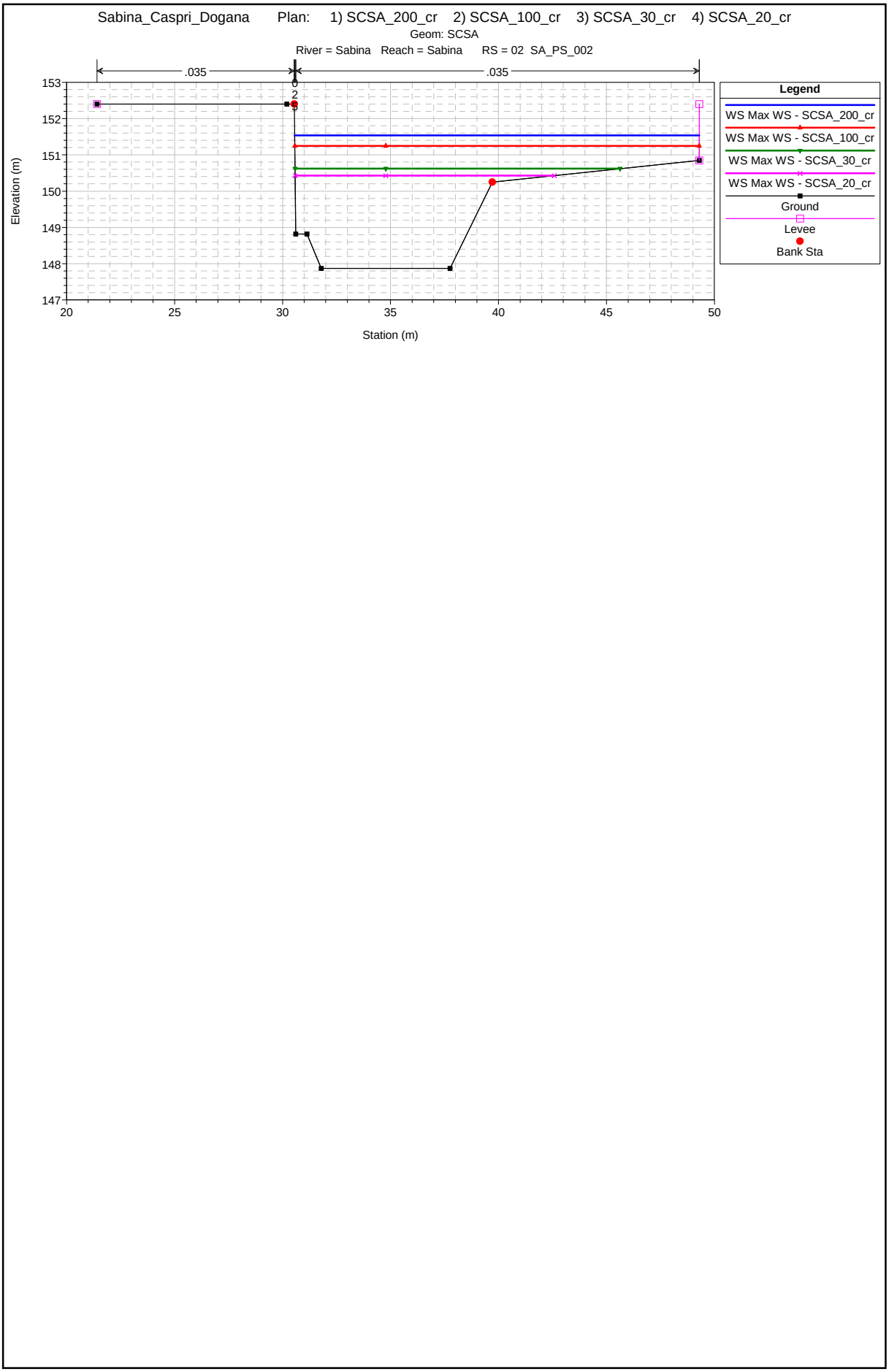
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

River = Sabina Reach = Sabina RS = 07 SA_PS_007




Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 06 SA_PS_006
.035
.035
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Elevation (m)
Station (m)
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 05 SA_PS_005
.035
.035
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Elevation (m)
Station (m)
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 04 SA_PS_004
.035
.035
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Elevation (m)
Station (m)
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 03 SA_PS_003
.035
.035
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Elevation (m)
Station (m)


Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Sabina Reach = Sabina RS = 02 SA_PS_002
.035
.035
0
2
5
Elevation (m)
153
152
151
150
149
148
147
20
25
30
35
40
45
50
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta

HEC-RAS River: Sabina Reach: Sabina Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Sabina	25	Max WS	SCSA_200_cr	66.36	153.86	156.11	156.10	156.94	0.012311	4.03	16.47	9.70	0.99
Sabina	25	Max WS	SCSA_100_cr	56.85	153.86	155.92	155.91	156.69	0.012500	3.87	14.67	9.38	0.99
Sabina	25	Max WS	SCSA_30_cr	43.05	153.86	155.62	155.61	156.28	0.012646	3.60	11.97	8.74	0.98
Sabina	25	Max WS	SCSA_20_cr	39.05	153.86	155.53	155.51	156.15	0.012678	3.50	11.16	8.54	0.98
Sabina	24	Max WS	SCSA_200_cr	66.34	153.49	155.77	155.77	156.65	0.013081	4.16	15.97	9.04	1.00
Sabina	24	Max WS	SCSA_100_cr	56.85	153.49	155.58	155.58	156.39	0.013232	3.99	14.26	8.84	1.00
Sabina	24	Max WS	SCSA_30_cr	43.05	153.49	155.28	155.29	155.98	0.013683	3.71	11.61	8.51	1.01
Sabina	24	Max WS	SCSA_20_cr	39.04	153.49	155.17	155.20	155.85	0.014098	3.63	10.75	8.40	1.03
Sabina	23.1	Max WS	SCSA_200_cr	66.43	153.27	155.71		156.18	0.004992	3.02	22.03	11.77	0.70
Sabina	23.1	Max WS	SCSA_100_cr	56.85	153.27	155.52		155.94	0.004977	2.87	19.78	11.50	0.70
Sabina	23.1	Max WS	SCSA_30_cr	43.05	153.27	155.21		155.57	0.004979	2.64	16.32	11.06	0.69
Sabina	23.1	Max WS	SCSA_20_cr	39.04	153.27	155.11		155.45	0.005067	2.57	15.17	10.92	0.70
Sabina	23	Max WS	SCSA_200_cr	66.44	153.20	155.60	155.58	156.27	0.008703	3.75	19.29	14.54	0.83
Sabina	23	Max WS	SCSA_100_cr	56.84	153.20	155.42	155.34	156.05	0.009038	3.60	16.84	12.87	0.84
Sabina	23	Max WS	SCSA_30_cr	43.05	153.20	155.08	155.05	155.68	0.010398	3.46	13.02	10.56	0.88
Sabina	23	Max WS	SCSA_20_cr	39.04	153.20	154.99	154.95	155.56	0.010495	3.37	12.04	10.37	0.87
Sabina	22.3	Max WS	SCSA_200_cr	66.43	153.18	155.58		156.06	0.006248	3.06	22.21	14.97	0.74
Sabina	22.3	Max WS	SCSA_100_cr	56.84	153.18	155.38		155.83	0.006624	2.98	19.25	14.08	0.75
Sabina	22.3	Max WS	SCSA_30_cr	43.05	153.18	155.05		155.45	0.007175	2.82	15.29	10.91	0.76
Sabina	22.3	Max WS	SCSA_20_cr	39.04	153.18	154.94		155.33	0.007314	2.76	14.15	10.61	0.76
Sabina	22.2	Max WS	SCSA_200_cr	66.43	153.14	155.54		155.98	0.005812	2.96	22.43	12.56	0.71
Sabina	22.2	Max WS	SCSA_100_cr	56.84	153.14	155.35		155.76	0.005840	2.83	20.07	12.17	0.70
Sabina	22.2	Max WS	SCSA_30_cr	43.05	153.14	155.02		155.38	0.006077	2.65	16.23	11.29	0.71
Sabina	22.2	Max WS	SCSA_20_cr	39.04	153.14	154.91		155.25	0.006221	2.60	15.01	10.98	0.71
Sabina	22.1	Max WS	SCSA_200_cr	66.42	153.00	155.70		155.93	0.002263	2.12	31.29	14.17	0.46
Sabina	22.1	Max WS	SCSA_100_cr	56.84	153.00	155.50		155.70	0.002174	2.00	28.46	13.81	0.44
Sabina	22.1	Max WS	SCSA_30_cr	43.05	153.00	155.15		155.32	0.002079	1.80	23.85	13.18	0.43
Sabina	22.1	Max WS	SCSA_20_cr	39.04	153.00	155.04		155.20	0.002063	1.75	22.37	12.96	0.42
Sabina	22	Max WS	SCSA_200_cr	66.42	152.96	155.26		156.02	0.009774	3.85	17.26	8.53	0.86
Sabina	22	Max WS	SCSA_100_cr	56.84	152.96	155.09		155.75	0.009293	3.60	15.77	8.39	0.84
Sabina	22	Max WS	SCSA_30_cr	43.05	152.96	154.80		155.33	0.008531	3.21	13.42	8.16	0.80
Sabina	22	Max WS	SCSA_20_cr	39.04	152.96	154.71		155.19	0.008315	3.08	12.66	8.08	0.79

HEC-RAS River: Sabina Reach: Sabina Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Sabina	21	Max WS	SCSA_200_cr	65.98	152.77	155.06		155.74	0.009059	3.65	18.09	9.84	0.86
Sabina	21	Max WS	SCSA_100_cr	56.83	152.77	154.86		155.49	0.009211	3.51	16.20	9.54	0.86
Sabina	21	Max WS	SCSA_30_cr	43.02	152.77	154.56		155.09	0.009170	3.22	13.36	9.07	0.85
Sabina	21	Max WS	SCSA_20_cr	39.02	152.77	154.46		154.96	0.009181	3.12	12.49	8.92	0.84
Sabina	20.1	Max WS	SCSA_200_cr	65.98	152.71	154.86		155.62	0.010766	3.86	17.10	9.69	0.93
Sabina	20.1	Max WS	SCSA_100_cr	56.82	152.71	154.67		155.38	0.011153	3.73	15.23	9.42	0.94
Sabina	20.1	Max WS	SCSA_30_cr	43.01	152.71	154.36	154.30	154.97	0.011577	3.47	12.41	8.98	0.94
Sabina	20.1	Max WS	SCSA_20_cr	39.02	152.71	154.26	154.21	154.84	0.011768	3.38	11.55	8.84	0.94
Sabina	20	Max WS	SCSA_200_cr	65.97	152.53	154.70		155.46	0.010239	3.84	17.16	9.11	0.89
Sabina	20	Max WS	SCSA_100_cr	56.66	152.53	154.51		155.20	0.010300	3.68	15.41	8.89	0.89
Sabina	20	Max WS	SCSA_30_cr	42.85	152.53	154.21		154.78	0.010116	3.35	12.79	8.56	0.87
Sabina	20	Max WS	SCSA_20_cr	38.85	152.53	154.11		154.65	0.010115	3.25	11.97	8.45	0.87
Sabina	19.1	Max WS	SCSA_200_cr	65.14	152.28	154.50		155.22	0.009477	3.75	17.37	9.06	0.86
Sabina	19.1	Max WS	SCSA_100_cr	55.56	152.28	154.32		154.96	0.009115	3.53	15.76	8.86	0.84
Sabina	19.1	Max WS	SCSA_30_cr	42.18	152.28	154.04		154.55	0.008568	3.17	13.32	8.55	0.81
Sabina	19.1	Max WS	SCSA_20_cr	38.30	152.28	153.95		154.43	0.008396	3.05	12.55	8.44	0.80
Sabina	19	Max WS	SCSA_200_cr	62.51	152.19	154.55		154.97	0.005427	2.86	21.88	12.10	0.68
Sabina	19	Max WS	SCSA_100_cr	53.33	152.19	154.34		154.73	0.005490	2.74	19.45	11.61	0.68
Sabina	19	Max WS	SCSA_30_cr	40.50	152.19	154.02		154.35	0.005698	2.57	15.79	10.83	0.68
Sabina	19	Max WS	SCSA_20_cr	36.95	152.19	153.91		154.24	0.005836	2.52	14.68	10.58	0.68
Sabina	18.1	Max WS	SCSA_200_cr	62.97	152.03	154.60		154.88	0.003765	2.35	26.74	15.75	0.58
Sabina	18.1	Max WS	SCSA_100_cr	53.33	152.03	154.38		154.64	0.003614	2.28	23.41	13.96	0.56
Sabina	18.1	Max WS	SCSA_30_cr	40.50	152.03	154.03		154.26	0.003727	2.15	18.83	12.58	0.56
Sabina	18.1	Max WS	SCSA_20_cr	36.95	152.03	153.92		154.14	0.003840	2.12	17.44	12.23	0.57
Sabina	18	Max WS	SCSA_200_cr	62.86	151.89	154.60		154.82	0.002463	2.10	29.99	14.91	0.47
Sabina	18	Max WS	SCSA_100_cr	53.33	151.89	154.38		154.58	0.002428	1.99	26.78	14.30	0.46
Sabina	18	Max WS	SCSA_30_cr	40.63	151.89	154.03		154.21	0.002450	1.85	21.98	13.32	0.46
Sabina	18	Max WS	SCSA_20_cr	36.95	151.89	153.92		154.09	0.002469	1.80	20.49	13.00	0.46
Sabina	17	Max WS	SCSA_200_cr	69.31	151.64	154.29		154.68	0.004699	2.77	25.05	13.25	0.64
Sabina	17	Max WS	SCSA_100_cr	59.77	151.64	154.07		154.44	0.004878	2.69	22.19	12.62	0.65
Sabina	17	Max WS	SCSA_30_cr	45.86	151.64	153.72		154.05	0.005123	2.55	18.00	11.63	0.65

HEC-RAS River: Sabina Reach: Sabina Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Sabina	17	Max WS	SCSA_20_cr	41.73	151.64	153.61		153.93	0.005197	2.49	16.73	11.31	0.65
Sabina	16	Max WS	SCSA_200_cr	69.29	151.33	153.84		154.47	0.008277	3.52	19.70	10.53	0.82
Sabina	16	Max WS	SCSA_100_cr	59.76	151.33	153.62		154.22	0.008539	3.42	17.50	10.07	0.83
Sabina	16	Max WS	SCSA_30_cr	45.86	151.33	153.30		153.82	0.008761	3.20	14.33	9.38	0.83
Sabina	16	Max WS	SCSA_20_cr	41.72	151.33	153.19		153.69	0.008826	3.12	13.35	9.16	0.83
Sabina	15	Max WS	SCSA_200_cr	69.28	151.07	153.71		154.21	0.006183	3.12	22.21	11.67	0.72
Sabina	15	Max WS	SCSA_100_cr	59.76	151.07	153.47		153.95	0.006663	3.08	19.41	11.06	0.74
Sabina	15	Max WS	SCSA_30_cr	45.85	151.07	153.09		153.54	0.007382	2.97	15.43	10.13	0.77
Sabina	15	Max WS	SCSA_20_cr	41.71	151.07	152.97		153.41	0.007628	2.93	14.25	9.84	0.78
Sabina	14	Max WS	SCSA_200_cr	69.20	150.79	153.26		153.96	0.008668	3.73	18.55	8.86	0.82
Sabina	14	Max WS	SCSA_100_cr	59.75	150.79	153.02		153.69	0.008959	3.61	16.53	8.61	0.83
Sabina	14	Max WS	SCSA_30_cr	45.83	150.79	152.68		153.26	0.009180	3.36	13.63	8.24	0.83
Sabina	14	Max WS	SCSA_20_cr	41.71	150.79	152.57		153.12	0.009325	3.28	12.70	8.11	0.84
Sabina	13.1	Max WS	SCSA_200_cr	68.97	150.28	153.16		153.67	0.005431	3.15	21.90	9.21	0.65
Sabina	13.1	Max WS	SCSA_100_cr	59.75	150.28	152.92		153.39	0.005491	3.04	19.68	8.93	0.65
Sabina	13.1	Max WS	SCSA_30_cr	45.82	150.28	152.56		152.95	0.005206	2.76	16.61	8.54	0.63
Sabina	13.1	Max WS	SCSA_20_cr	41.70	150.28	152.45		152.81	0.005143	2.67	15.61	8.41	0.63
Sabina	13	Max WS	SCSA_200_cr	68.79	150.21	152.85		153.44	0.006781	3.40	20.25	9.15	0.73
Sabina	13	Max WS	SCSA_100_cr	59.74	150.21	152.58		153.15	0.007363	3.36	17.80	8.84	0.76
Sabina	13	Max WS	SCSA_30_cr	45.81	150.21	152.25		152.73	0.007124	3.07	14.94	8.47	0.74
Sabina	13	Max WS	SCSA_20_cr	41.70	150.21	152.13		152.58	0.007210	2.99	13.94	8.34	0.74
Sabina	12	Max WS	SCSA_200_cr	68.62	149.85	152.57		153.13	0.006298	3.30	20.76	9.26	0.70
Sabina	12	Max WS	SCSA_100_cr	56.42	149.85	152.27		152.77	0.006307	3.13	18.05	8.90	0.70
Sabina	12	Max WS	SCSA_30_cr	45.59	149.85	151.92		152.39	0.007006	3.05	14.96	8.48	0.73
Sabina	12	Max WS	SCSA_20_cr	38.82	149.85	151.78		152.18	0.006421	2.82	13.79	8.31	0.70
Sabina	11.2	Max WS	SCSA_200_cr	68.73	149.80	152.74	151.67	153.10	0.003372	2.65	25.98	9.23	0.50
Sabina	11.2	Max WS	SCSA_100_cr	56.60	149.80	152.44	151.45	152.74	0.003182	2.44	23.19	9.15	0.49
Sabina	11.2	Max WS	SCSA_30_cr	45.74	149.80	152.09	151.23	152.36	0.003204	2.29	20.01	9.05	0.49
Sabina	11.2	Max WS	SCSA_20_cr	41.69	149.80	151.95	151.15	152.20	0.003238	2.23	18.73	9.01	0.49
Sabina	11.15			Bridge									

HEC-RAS River: Sabina Reach: Sabina Profile: Max WS (Continued)

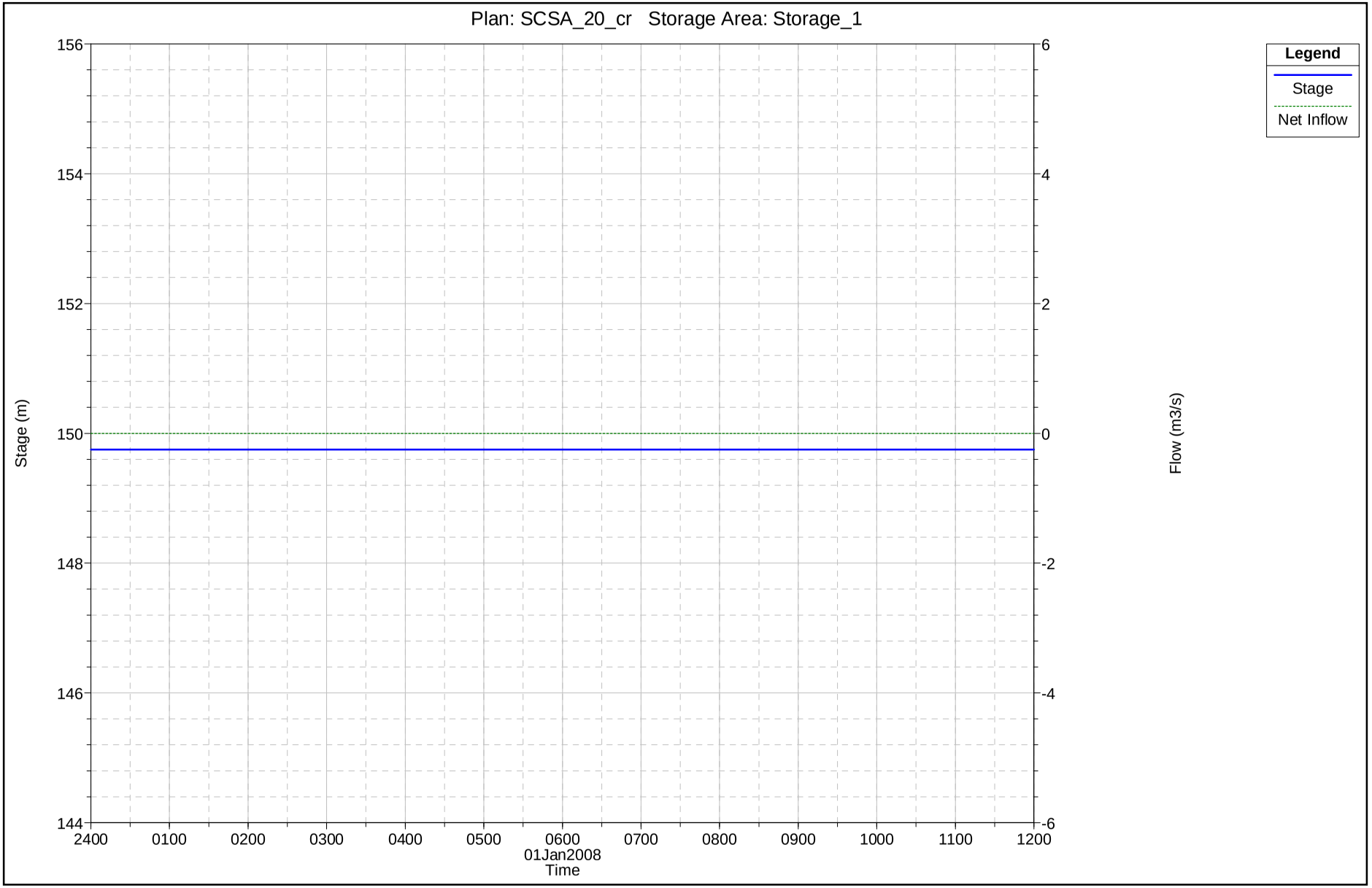
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Sabina	11.1	Max WS	SCSA_200_cr	68.62	149.80	152.56		153.10	0.005681	3.25	21.14	8.90	0.67
Sabina	11.1	Max WS	SCSA_100_cr	56.60	149.80	152.31		152.77	0.005324	3.00	18.88	8.67	0.65
Sabina	11.1	Max WS	SCSA_30_cr	45.45	149.80	151.90		152.34	0.006137	2.95	15.42	8.30	0.69
Sabina	11.1	Max WS	SCSA_20_cr	38.69	149.80	151.77		152.14	0.005497	2.70	14.34	8.18	0.65
Sabina	11.09			Lat Struct									
Sabina	11.08			Lat Struct									
Sabina	11	Max WS	SCSA_200_cr	68.66	149.61	152.64		153.00	0.003447	2.64	26.00	10.03	0.52
Sabina	11	Max WS	SCSA_100_cr	56.71	149.61	152.37		152.67	0.003226	2.44	23.28	9.81	0.50
Sabina	11	Max WS	SCSA_30_cr	45.57	149.61	151.94		152.23	0.003630	2.37	19.21	9.48	0.53
Sabina	11	Max WS	SCSA_20_cr	38.76	149.61	151.80		152.04	0.003244	2.17	17.86	9.36	0.50
Sabina	10.1	Max WS	SCSA_200_cr	68.66	149.56	152.58		152.96	0.003813	2.73	25.11	10.24	0.56
Sabina	10.1	Max WS	SCSA_100_cr	56.66	149.56	152.31		152.63	0.003584	2.53	22.37	9.90	0.54
Sabina	10.1	Max WS	SCSA_30_cr	45.45	149.56	151.87		152.19	0.004132	2.50	18.19	9.34	0.57
Sabina	10.1	Max WS	SCSA_20_cr	37.16	149.56	151.74		151.99	0.003350	2.19	17.00	9.18	0.51
Sabina	10	Max WS	SCSA_200_cr	68.54	149.44	152.41		152.91	0.005352	3.13	21.86	9.07	0.64
Sabina	10	Max WS	SCSA_100_cr	56.12	149.44	152.17		152.58	0.004788	2.85	19.71	8.80	0.61
Sabina	10	Max WS	SCSA_30_cr	45.39	149.44	151.72		152.14	0.005727	2.85	15.90	8.29	0.66
Sabina	10	Max WS	SCSA_20_cr	37.02	149.44	151.64		151.94	0.004297	2.43	15.24	8.20	0.57
Sabina	09	Max WS	SCSA_200_cr	68.05	149.15	152.23		152.71	0.005077	3.07	22.13	8.96	0.62
Sabina	09	Max WS	SCSA_100_cr	55.74	149.15	152.02		152.40	0.004340	2.75	20.29	8.74	0.58
Sabina	09	Max WS	SCSA_30_cr	45.04	149.15	151.52		151.92	0.005459	2.80	16.07	8.24	0.64
Sabina	09	Max WS	SCSA_20_cr	35.58	149.15	151.53		151.78	0.003360	2.20	16.15	8.25	0.50
Sabina	08	Max WS	SCSA_200_cr	71.71	148.72	152.00		152.42	0.004101	2.89	24.83	9.38	0.57
Sabina	08	Max WS	SCSA_100_cr	61.58	148.72	151.72		152.11	0.004108	2.77	22.25	9.12	0.57
Sabina	08	Max WS	SCSA_30_cr	47.37	148.72	151.30		151.63	0.004055	2.56	18.53	8.69	0.56
Sabina	08	Max WS	SCSA_20_cr	43.49	148.72	151.19		151.50	0.003992	2.48	17.54	8.57	0.55
Sabina	07	Max WS	SCSA_200_cr	71.69	148.36	151.96		152.27	0.002684	2.47	29.05	10.03	0.46
Sabina	07	Max WS	SCSA_100_cr	61.58	148.36	151.67		151.95	0.002618	2.34	26.26	9.74	0.46
Sabina	07	Max WS	SCSA_30_cr	47.37	148.36	151.25		151.48	0.002454	2.13	22.26	9.30	0.44
Sabina	07	Max WS	SCSA_20_cr	43.47	148.36	151.14		151.35	0.002372	2.05	21.20	9.18	0.43

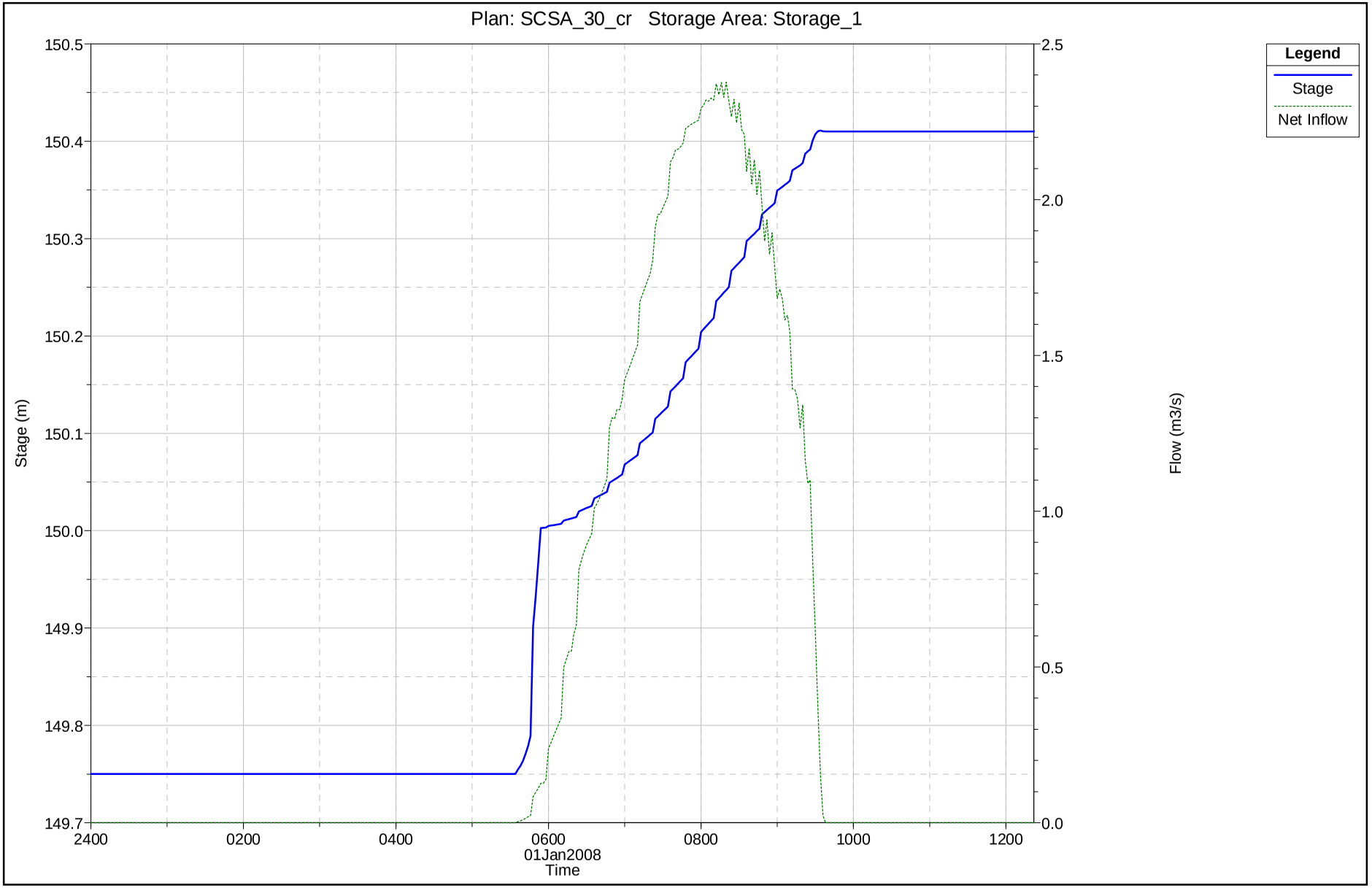
HEC-RAS River: Sabina Reach: Sabina Profile: Max WS (Continued)

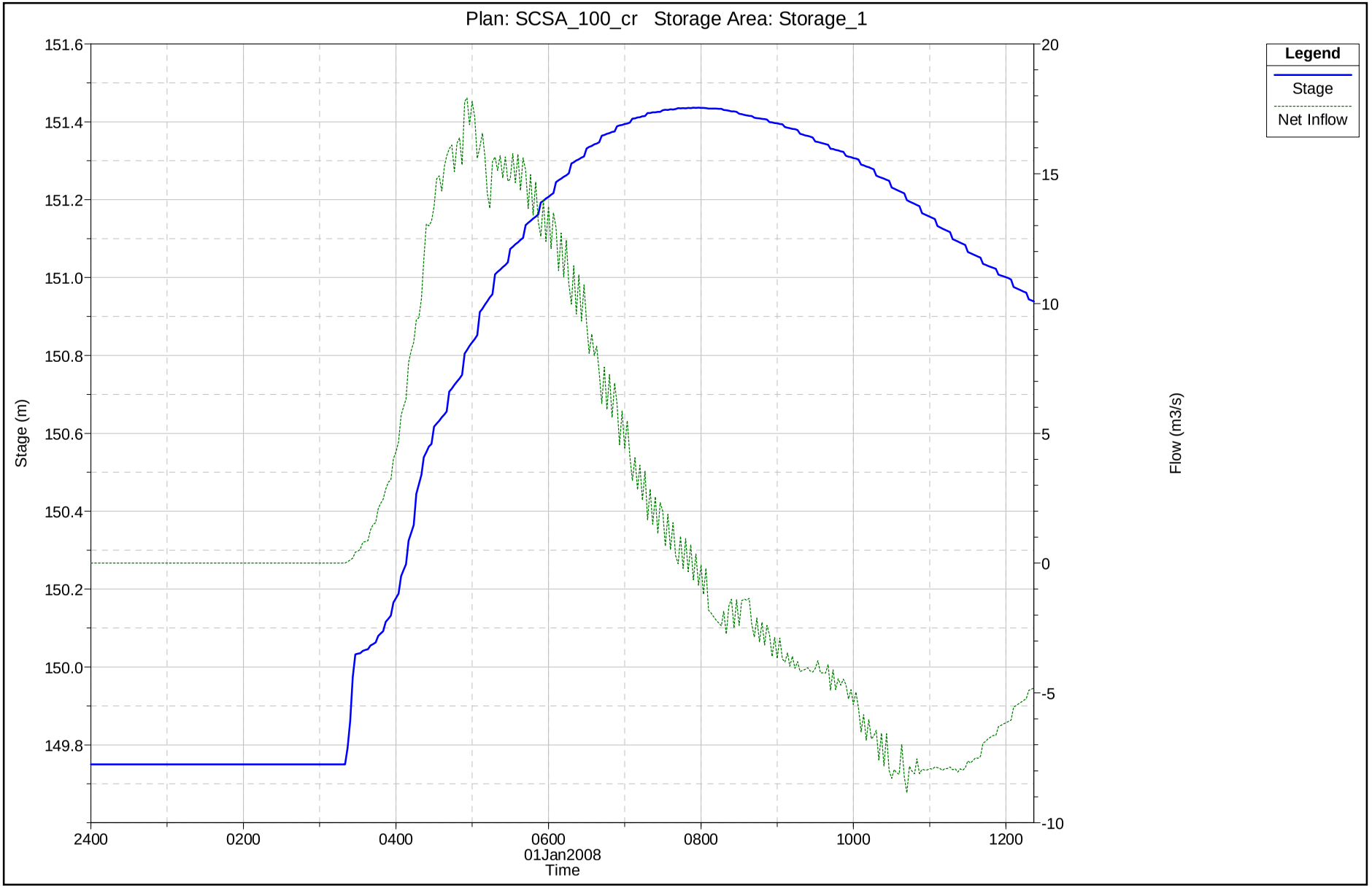
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Sabina	06	Max WS	SCSA_200_cr	45.02	148.25	151.59		151.81	0.002286	2.08	21.63	8.34	0.41
Sabina	06	Max WS	SCSA_100_cr	43.80	148.25	151.45		151.69	0.002505	2.14	20.50	8.19	0.43
Sabina	06	Max WS	SCSA_30_cr	47.22	148.25	150.90		151.34	0.005618	2.93	16.13	7.59	0.64
Sabina	06	Max WS	SCSA_20_cr	43.38	148.25	150.81		151.21	0.005346	2.81	15.45	7.49	0.62
Sabina	05	Max WS	SCSA_200_cr	37.58	148.08	151.58		151.67	0.000896	1.40	30.54	20.24	0.26
Sabina	05	Max WS	SCSA_100_cr	42.71	148.08	151.42		151.57	0.001481	1.75	27.33	20.22	0.34
Sabina	05	Max WS	SCSA_30_cr	36.76	148.08	150.69		150.92	0.003004	2.15	17.10	8.02	0.47
Sabina	05	Max WS	SCSA_20_cr	39.36	148.08	150.56		150.86	0.004104	2.45	16.07	7.88	0.55
Sabina	04	Max WS	SCSA_200_cr	46.15	147.97	151.60		151.76	0.001341	1.73	26.65	8.41	0.31
Sabina	04	Max WS	SCSA_100_cr	36.21	147.97	151.47		151.57	0.000935	1.42	25.49	8.41	0.26
Sabina	04	Max WS	SCSA_30_cr	36.59	147.97	150.62		150.82	0.002427	1.99	18.37	8.33	0.43
Sabina	04	Max WS	SCSA_20_cr	39.30	147.97	150.45		150.72	0.003514	2.32	16.95	8.19	0.51
Sabina	03	Max WS	SCSA_200_cr	34.39	147.89	151.57		151.65	0.000563	1.22	29.40	10.11	0.21
Sabina	03	Max WS	SCSA_100_cr	44.74	147.89	151.35		151.50	0.001196	1.71	27.16	10.10	0.31
Sabina	03	Max WS	SCSA_30_cr	35.37	147.89	150.60		150.78	0.001881	1.84	19.63	10.09	0.38
Sabina	03	Max WS	SCSA_20_cr	38.29	147.89	150.41		150.66	0.002920	2.18	17.72	9.62	0.47
Sabina	02	Max WS	SCSA_200_cr	33.59	147.87	151.54	149.25	151.58	0.000336	0.95	39.83	18.74	0.17
Sabina	02	Max WS	SCSA_100_cr	56.68	147.87	151.25	149.76	151.41	0.001402	1.85	34.40	18.74	0.34
Sabina	02	Max WS	SCSA_30_cr	36.80	147.87	150.62	149.33	150.76	0.001480	1.66	23.02	15.05	0.34
Sabina	02	Max WS	SCSA_20_cr	39.45	147.87	150.43	149.39	150.62	0.002249	1.95	20.45	12.01	0.42

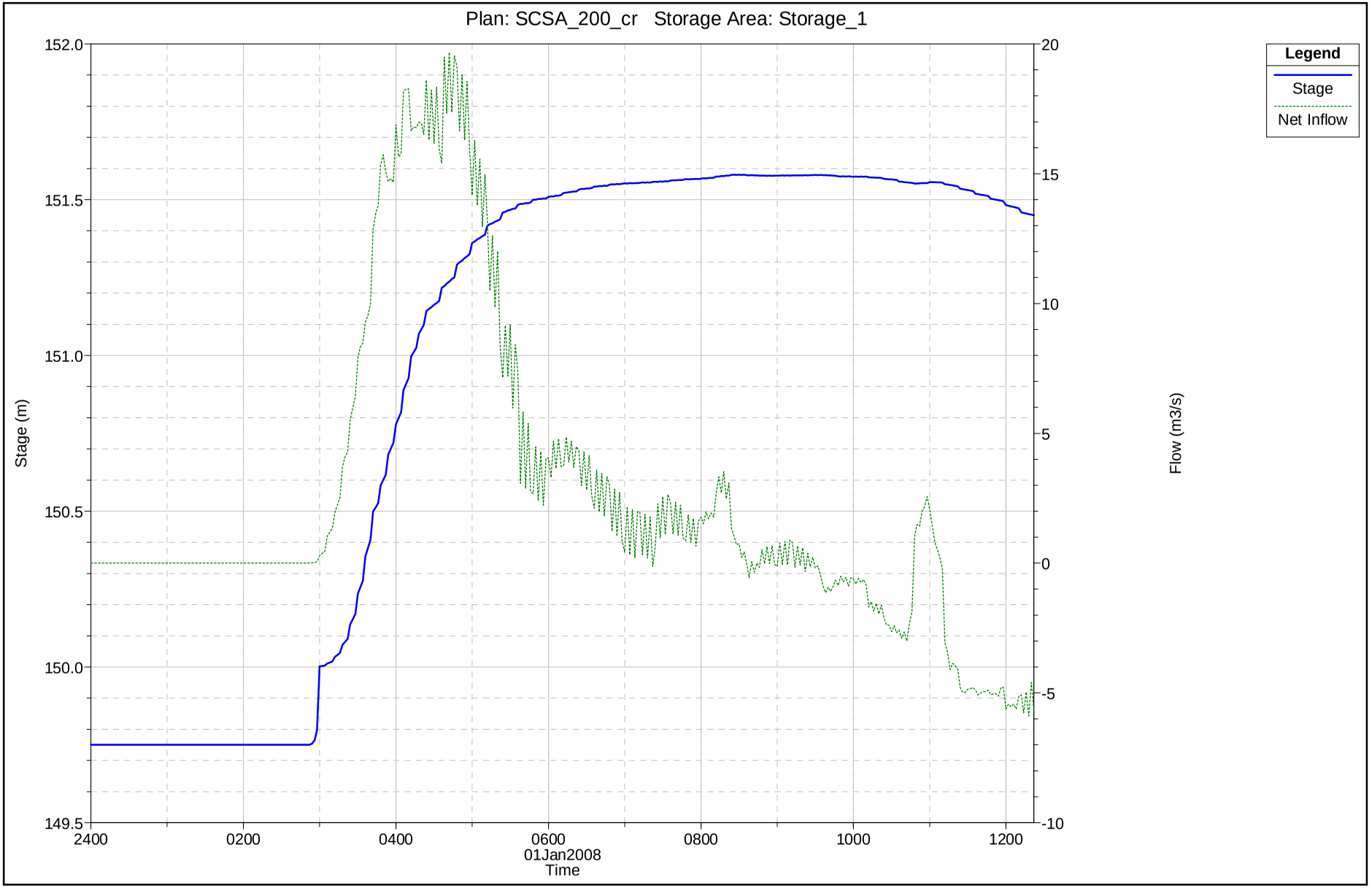
HEC-RAS Profile: Max WS

Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
Dogana_dx_1	Max WS	SCSA_200_cr	149.07	148.80	3.45	33.81	9.16
Dogana_dx_1	Max WS	SCSA_100_cr	148.84	148.80	0.72	33.81	1.25
Dogana_dx_1	Max WS	SCSA_30_cr	148.80	148.80	0.00	33.81	0.00
Dogana_dx_1	Max WS	SCSA_20_cr	148.80	148.80	0.00	33.81	0.00
Storage_1	Max WS	SCSA_200_cr	151.58	149.75	27.31	41.37	34.36
Storage_1	Max WS	SCSA_100_cr	151.44	149.75	3.28	31.32	29.05
Storage_1	Max WS	SCSA_30_cr	150.41	149.75	2.46	9.70	3.99
Storage_1	Max WS	SCSA_20_cr	149.75	149.75	0.00	0.04	0.00
Storage_Dx	Max WS	SCSA_200_cr	152.66	151.00	29.77	25.15	21.63
Storage_Dx	Max WS	SCSA_100_cr	152.55	151.00	21.53	25.15	18.90
Storage_Dx	Max WS	SCSA_30_cr	152.25	151.00	2.17	25.15	11.56
Storage_Dx	Max WS	SCSA_20_cr	152.06	151.00	1.26	25.15	6.55


Plan: SCSA_20_cr Storage Area: Storage_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
156
154
152
150
148
146
144
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
01Jan2008
Time


Plan: SCSA_30_cr Storage Area: Storage_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
150.5
150.4
150.3
150.2
150.1
150.0
149.9
149.8
149.7
2.5
2.0
1.5
1.0
0.5
0.0
2400
0200
0400
0600
0800
1000
1200
01Jan2008
Time


Plan: SCSA_100_cr Storage Area: Storage_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
151.6
151.4
151.2
151.0
150.8
150.6
150.4
150.2
150.0
149.8
20
15
10
5
0
-5
-10
2400
0200
0400
0600
0800
1000
1200
01Jan2008
Time


Plan: SCSA_200_cr Storage Area: Storage_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
152.0
151.5
151.0
150.5
150.0
149.5
20
15
10
5
0
-5
-10
2400
0200
0400
0600
0800
1000
1200
01Jan2008
Time

borro del Caspri

verifiche con Tpioggia critico per il Borro del Caspri

- moto vario

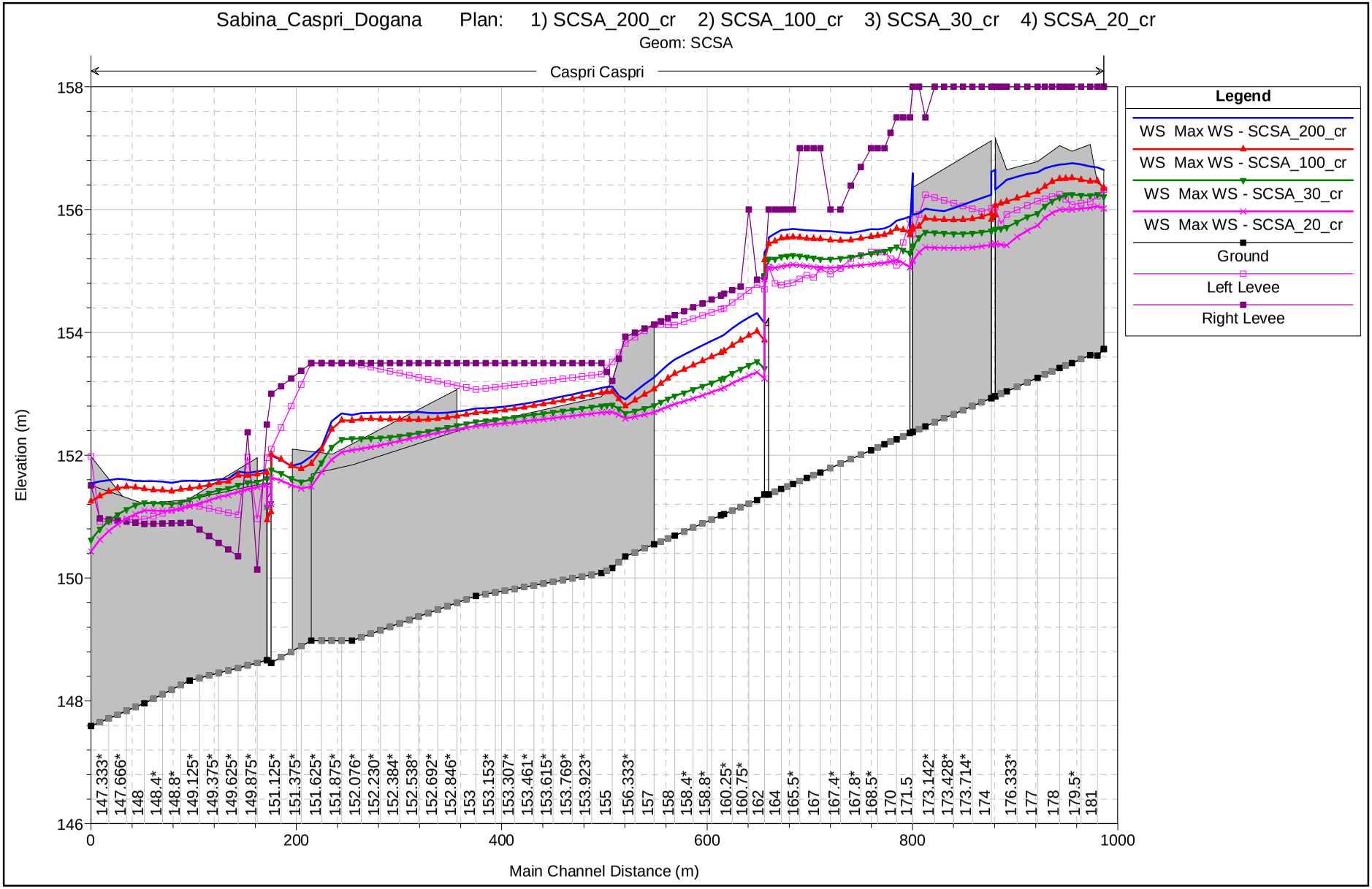
  Tr=200, 100, 30 e 20 anni

  profilo

  livelli idrici nelle sezioni di verifica

  tabella di output del software Hec-ras 4.0

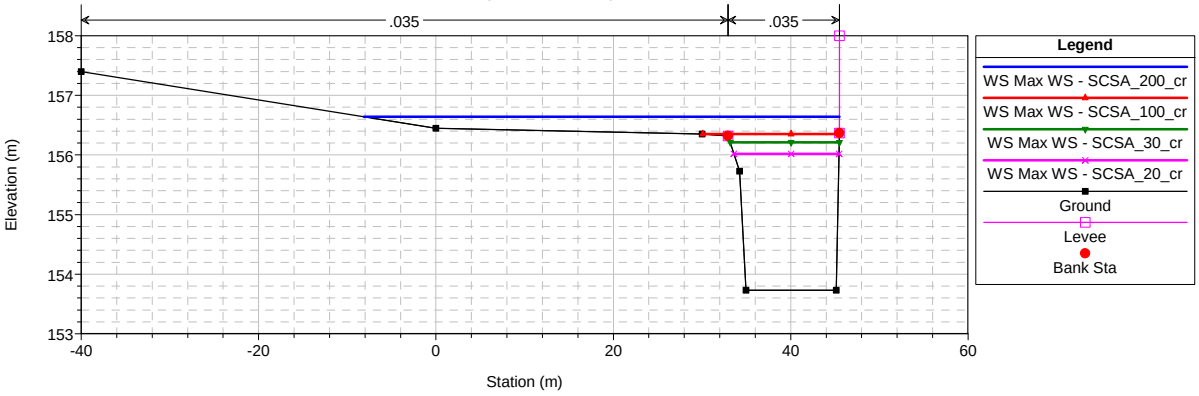
  livelli e portate in ingresso alle aree di accumulo


Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
Caspri Caspri
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
158
156
154
152
150
148
146
0
200
400
600
800
1000
147.333*
147.666*
148
148.4*
148.8*
149.125*
149.375*
149.625*
149.875*
151.125*
151.375*
151.625*
151.875*
152.076*
152.230*
152.384*
152.538*
152.692*
152.846*
153
153.153*
153.307*
153.461*
153.615*
153.769*
153.923*
155
156.333*
157
158
158.4*
158.8*
160.25*
160.75*
162
164
165.5*
167
167.4*
167.8*
168.5*
170
171.5
173.142*
173.428*
173.714*
174
176.333*
177
178
179.5*
181

Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

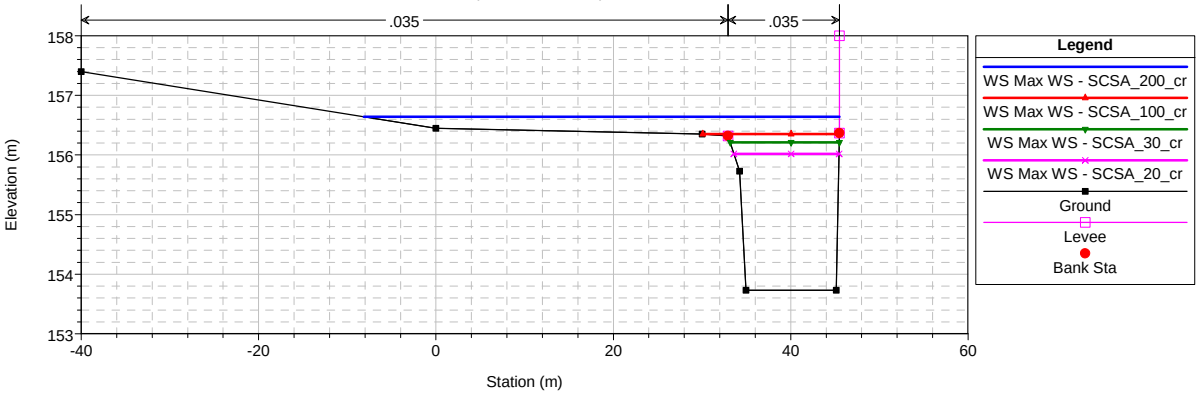
River = Caspri Reach = Caspri RS = 182 Noferi 36



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

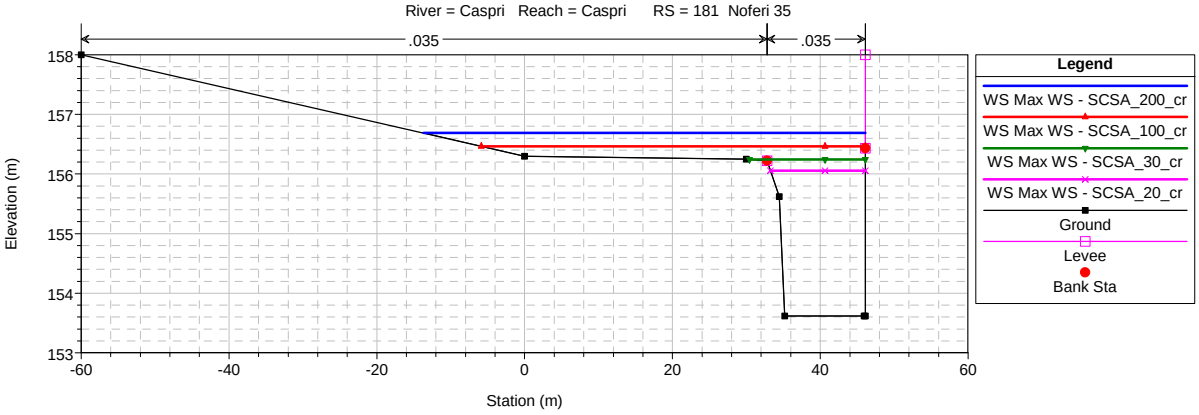
River = Caspri Reach = Caspri RS = 181.99 Noferi 36



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

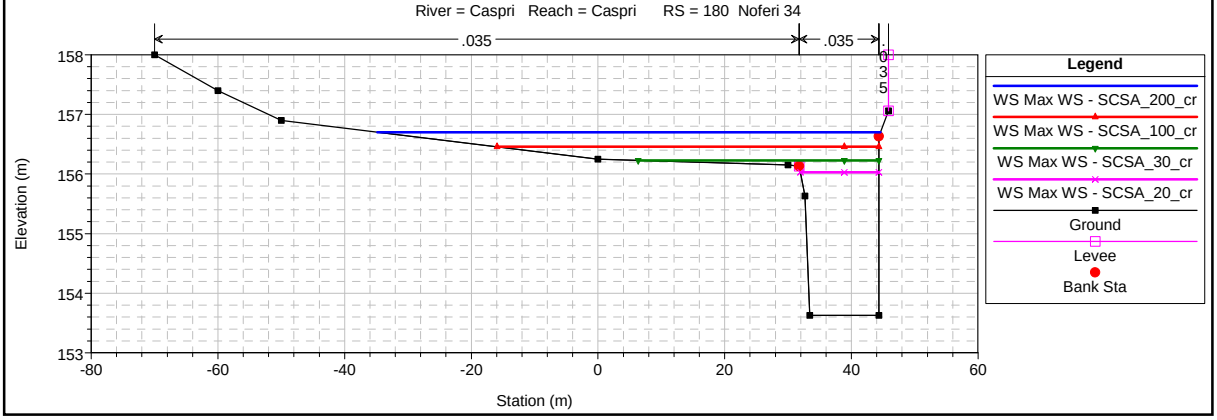
River = Caspri Reach = Caspri RS = 181 Noferi 35



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

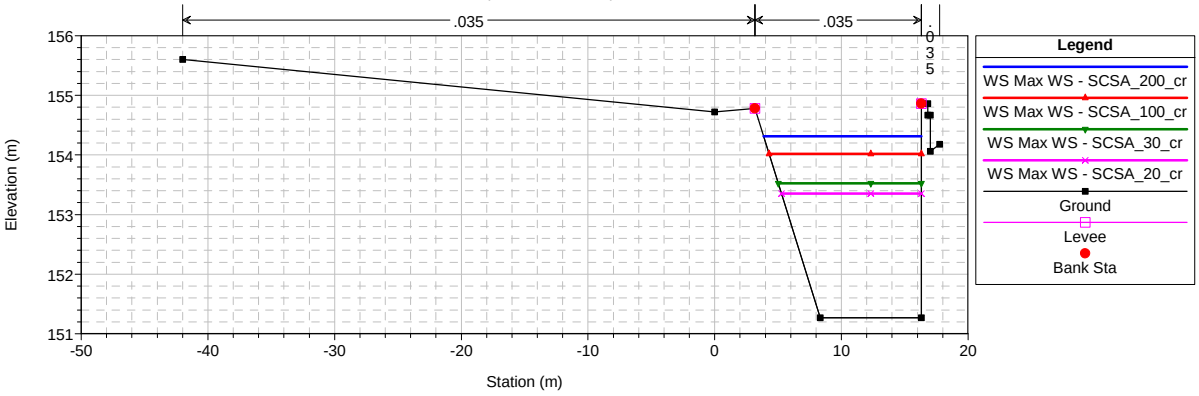
River = Caspri Reach = Caspri RS = 180 Noferi 34



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

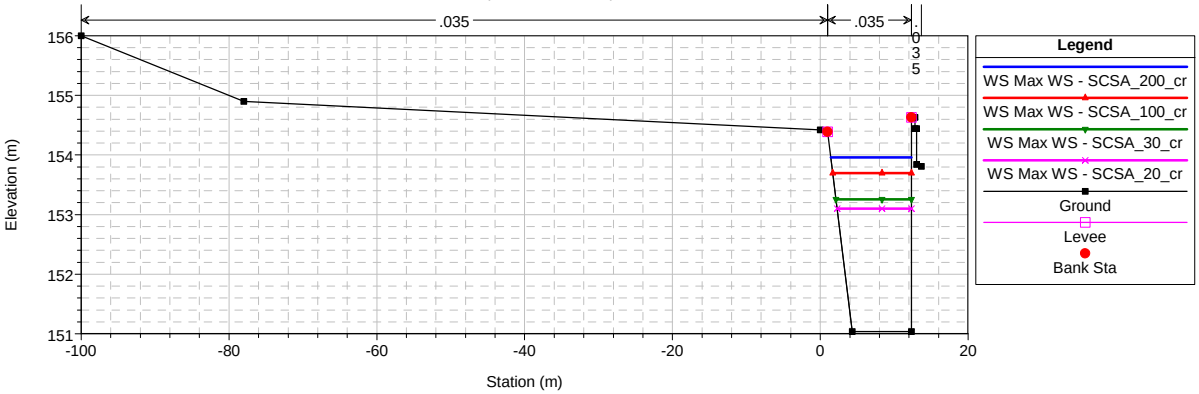
River = Caspri Reach = Caspri RS = 161 Noferi 15



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

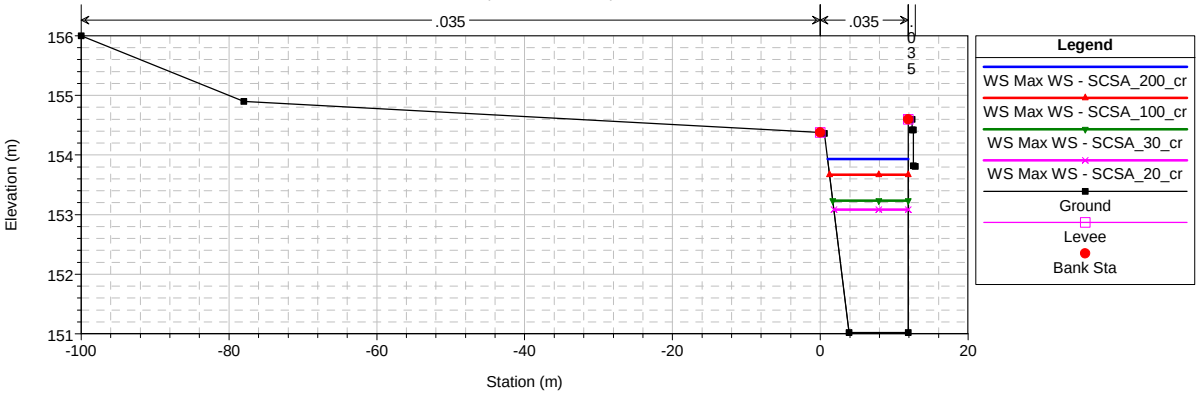
River = Caspri Reach = Caspri RS = 160 Noferi 14



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

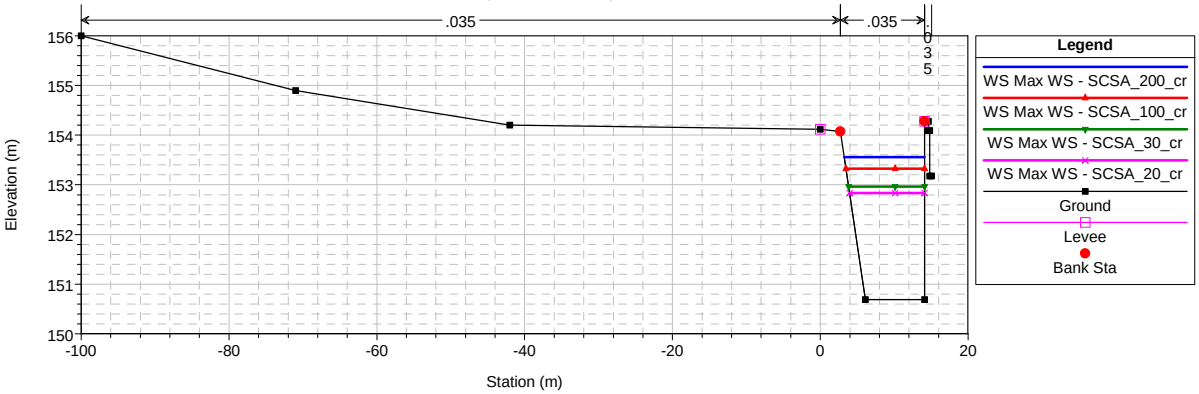
River = Caspri Reach = Caspri RS = 159 Noferi 13



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

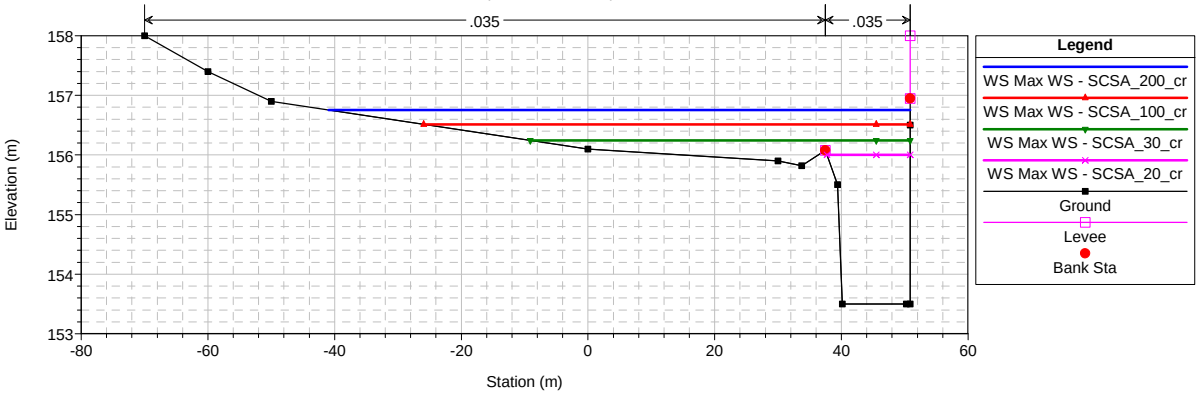
River = Caspri Reach = Caspri RS = 158 Noferi 12



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

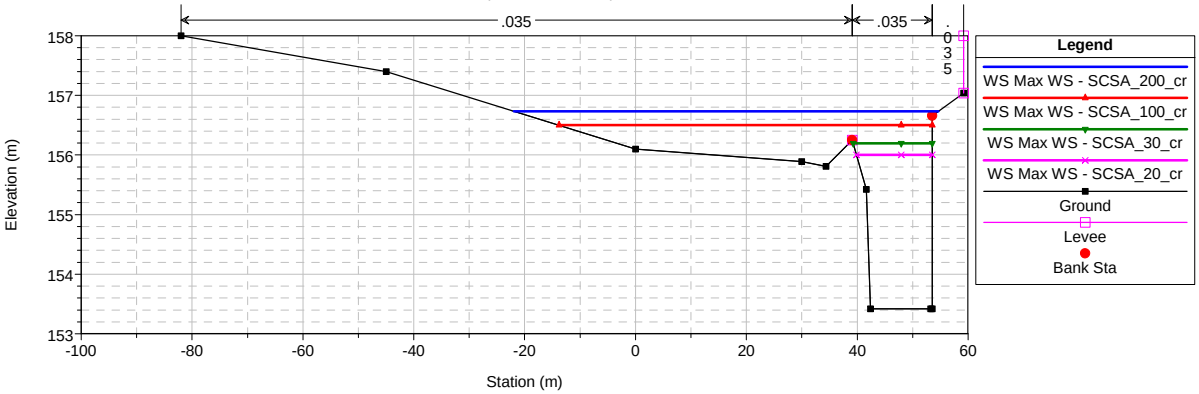
River = Caspri Reach = Caspri RS = 179 Noferi 33



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

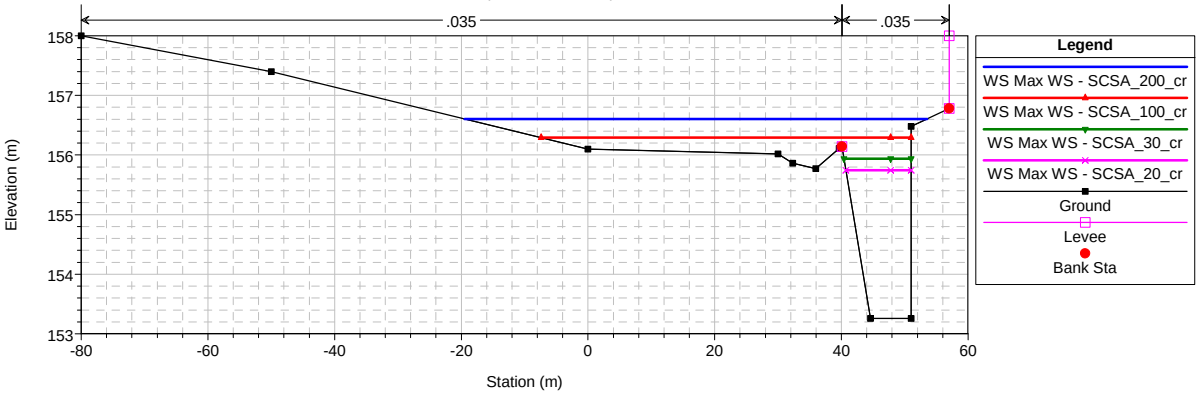
River = Caspri Reach = Caspri RS = 178 Noferi 32



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

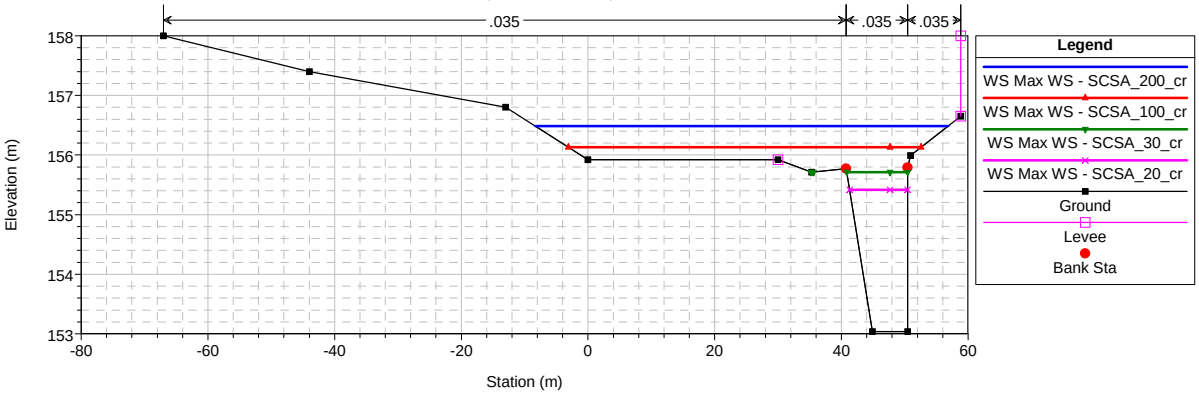
River = Caspri Reach = Caspri RS = 177 Noferi 31



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

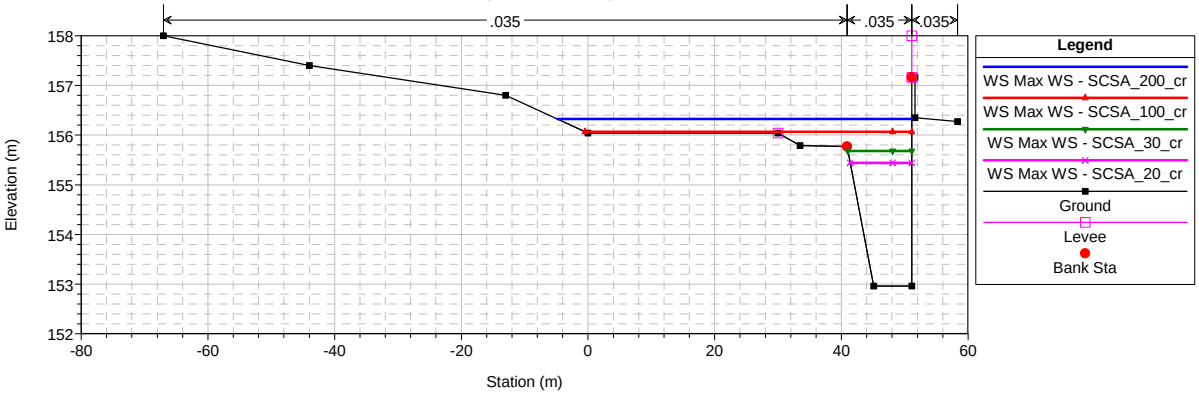
River = Caspri Reach = Caspri RS = 176 Noferi 30



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

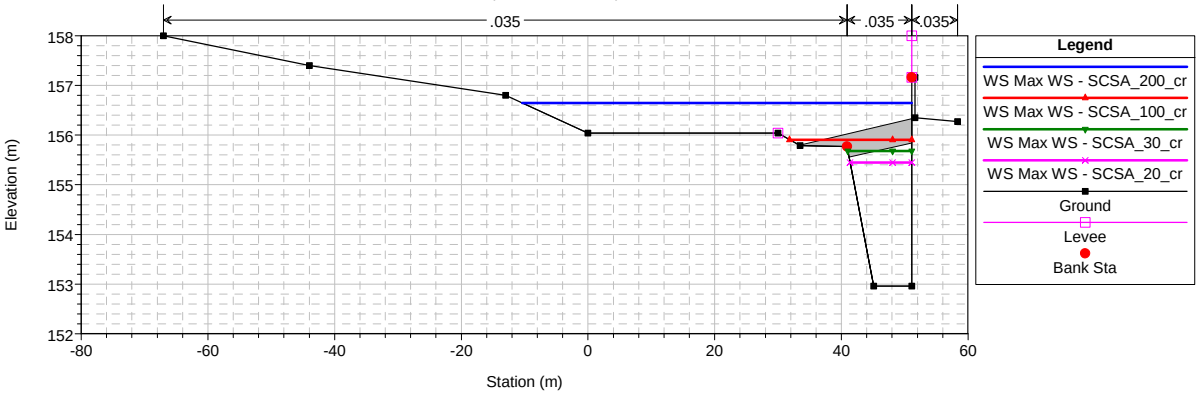
River = Caspri Reach = Caspri RS = 175 Noferi 29



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

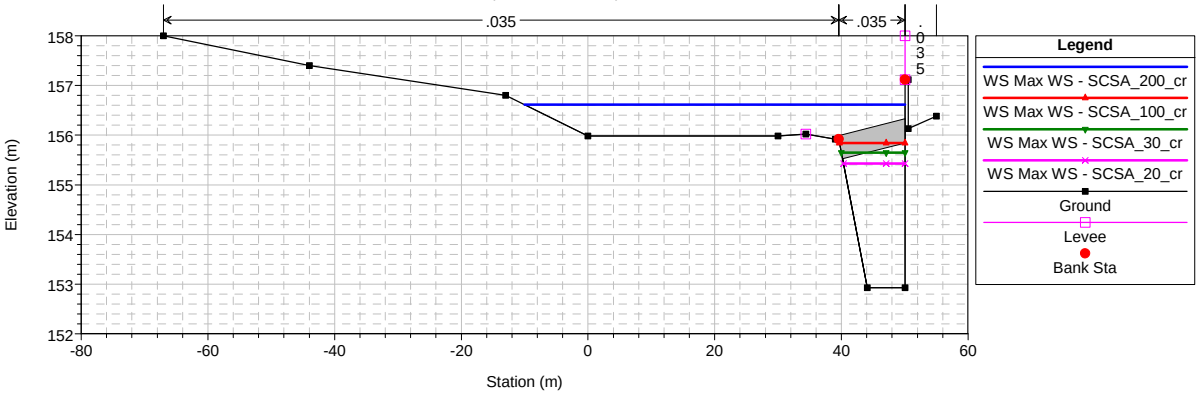
River = Caspri Reach = Caspri RS = 174.5 BR



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

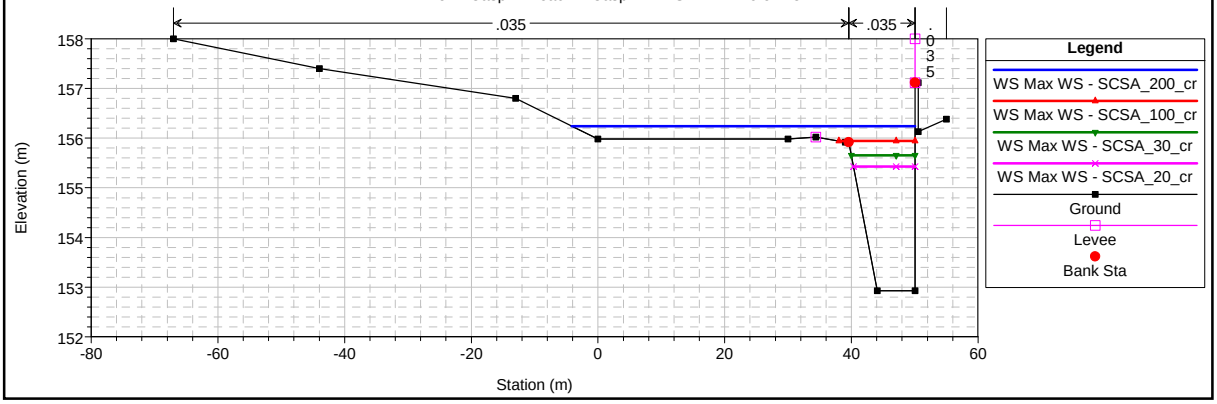
River = Caspri Reach = Caspri RS = 174.5 BR

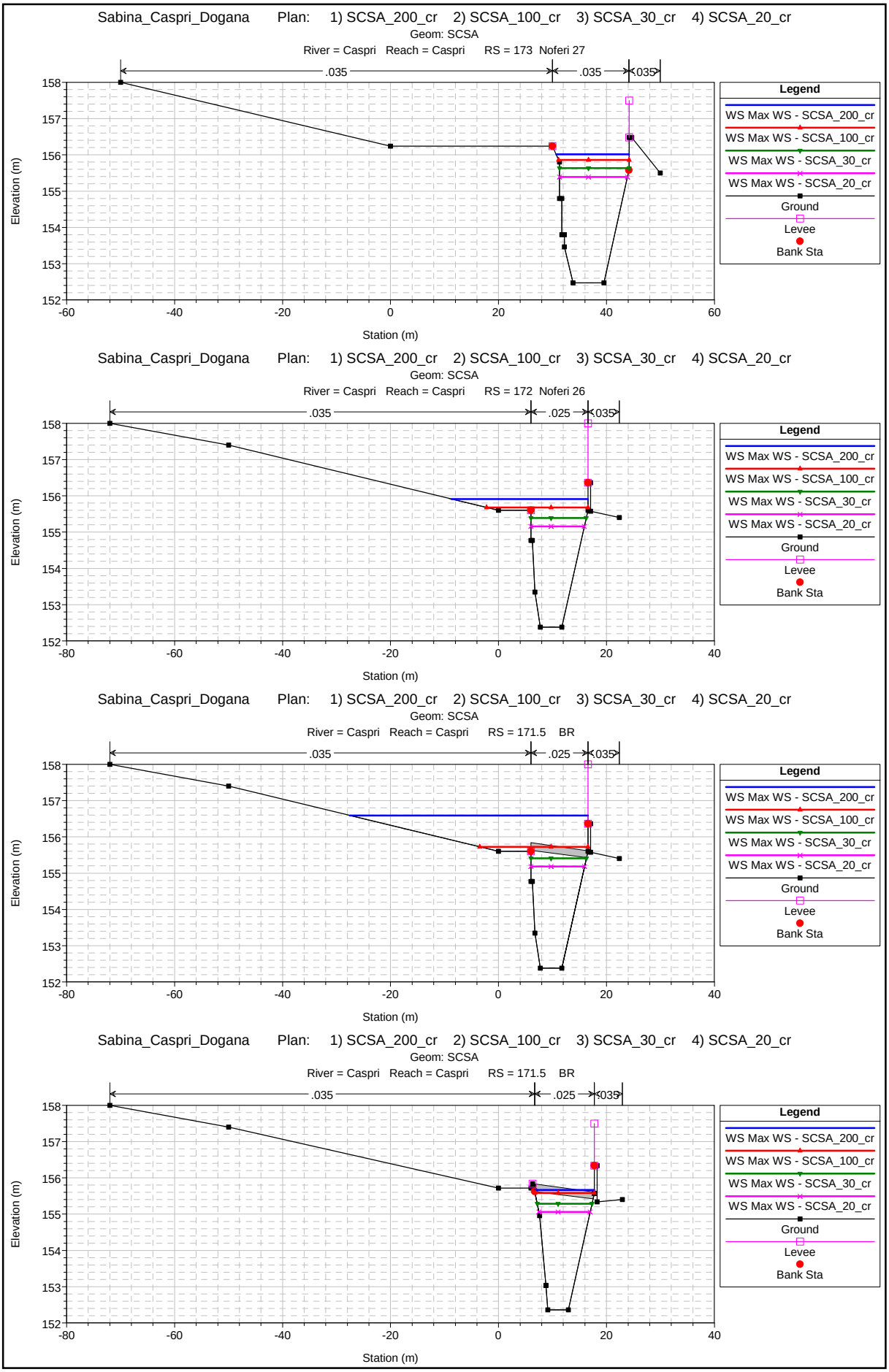


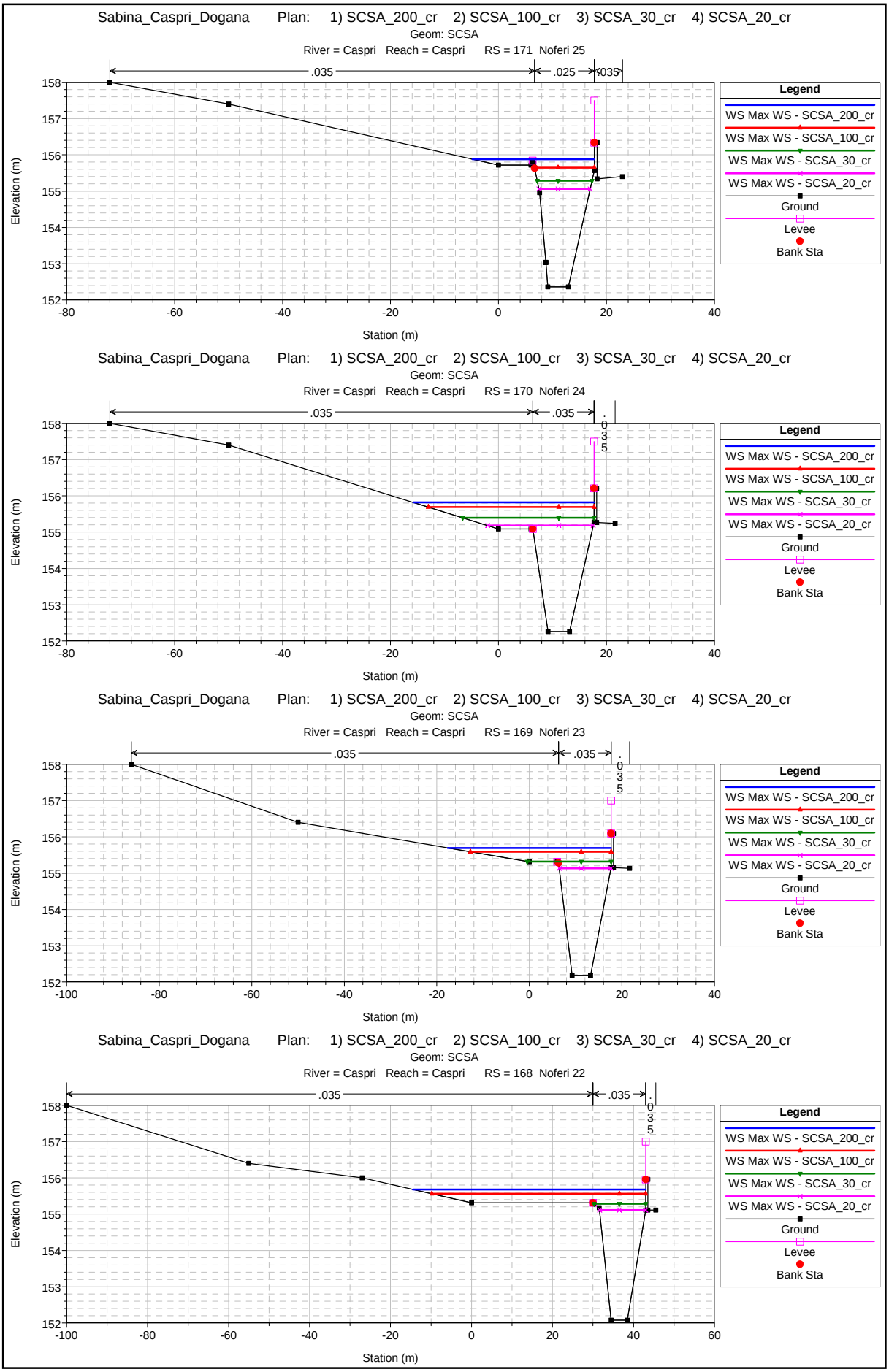
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

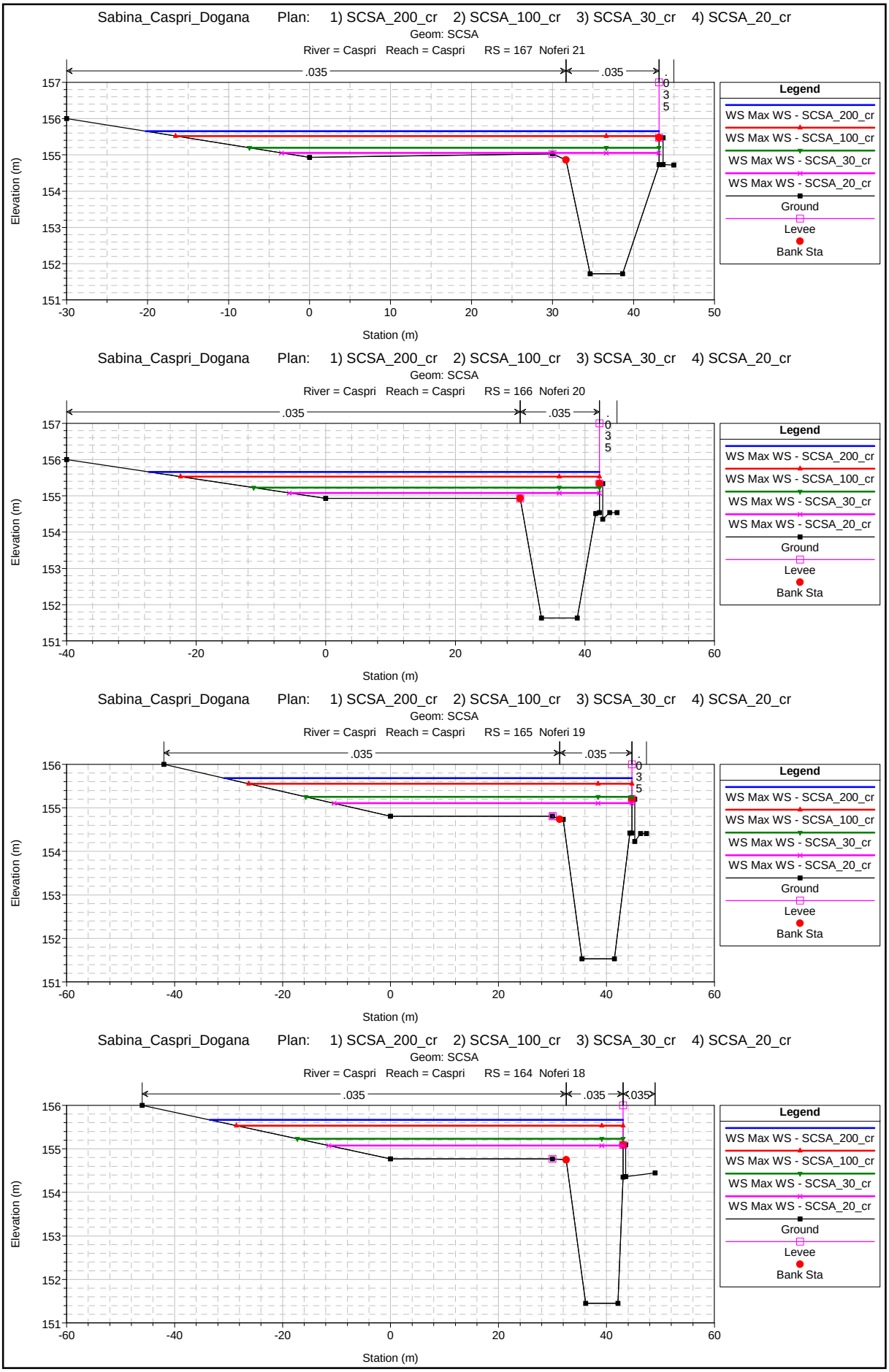
Geom: SCSA

River = Caspri Reach = Caspri RS = 174 Noferi 28




Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 173 Noferi 27
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 172 Noferi 26
.035
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 171.5 BR
.035
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 171.5 BR
.035
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta

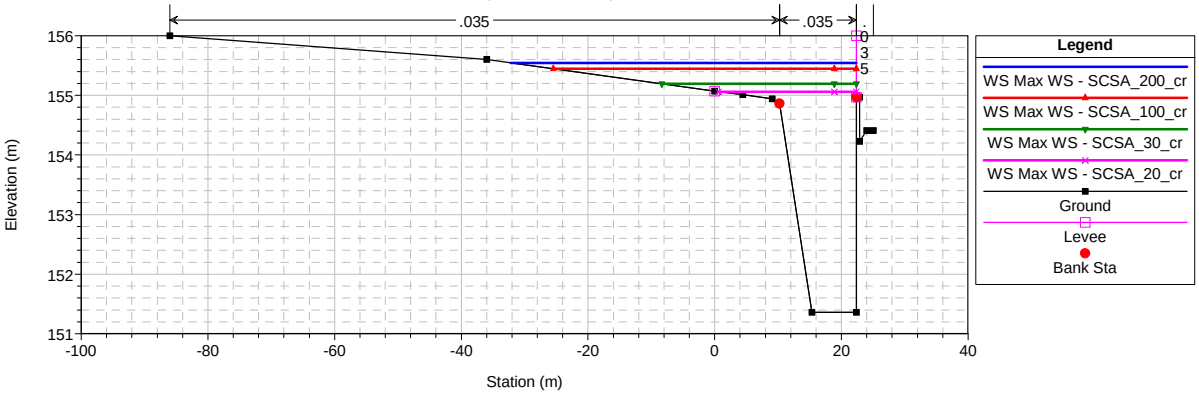

Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 171 Noferi 25
.035
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 170 Noferi 24
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 169 Noferi 23
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 168 Noferi 22
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta


Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 167 Noferi 21
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 166 Noferi 20
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 165 Noferi 19
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 164 Noferi 18
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta

Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

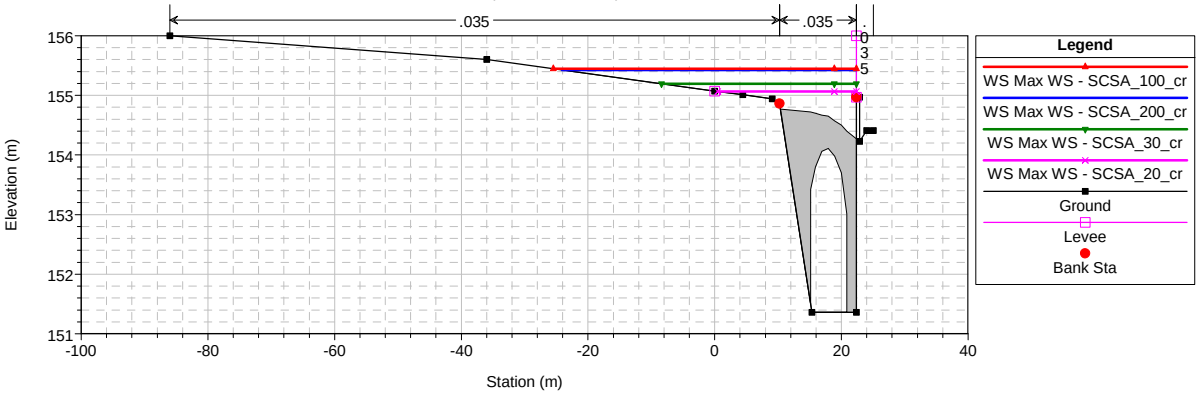
River = Caspri Reach = Caspri RS = 163 Noferi 17



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

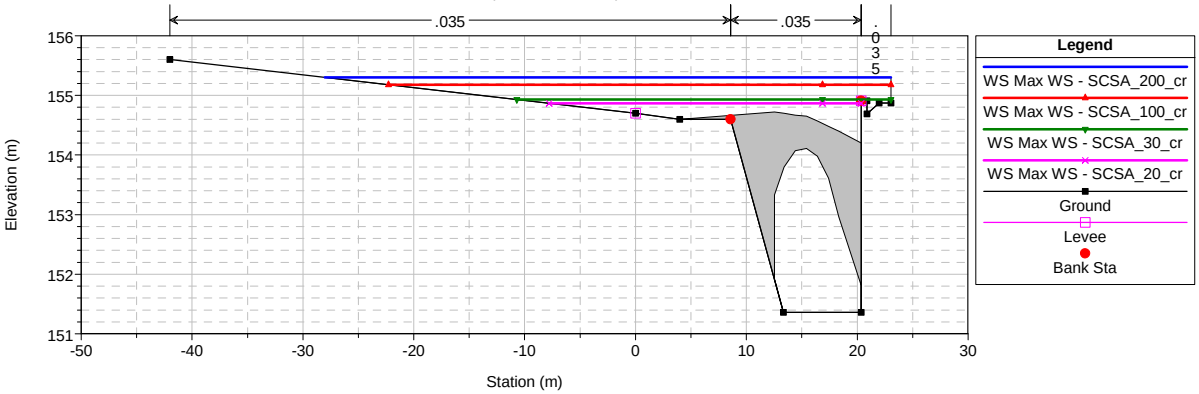
River = Caspri Reach = Caspri RS = 162.5 BR



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

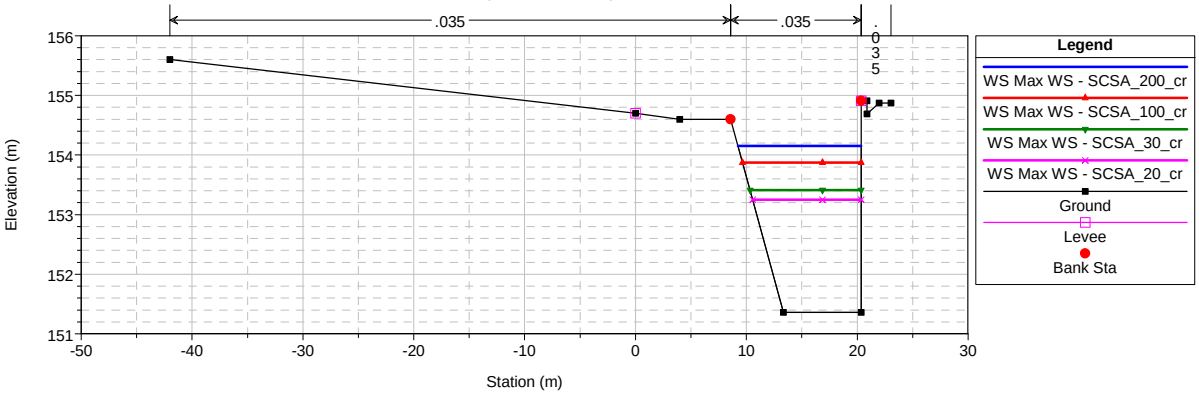
River = Caspri Reach = Caspri RS = 162.5 BR



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

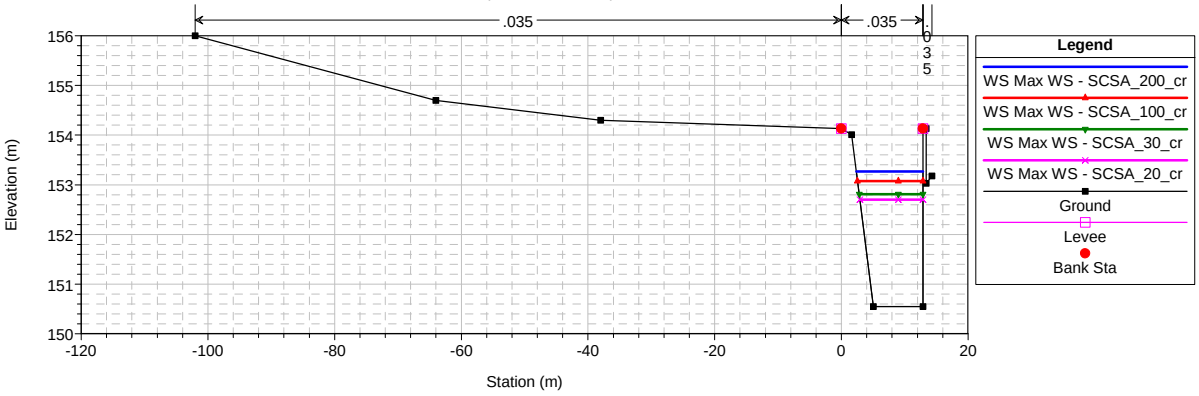
River = Caspri Reach = Caspri RS = 162 Noferi 16



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

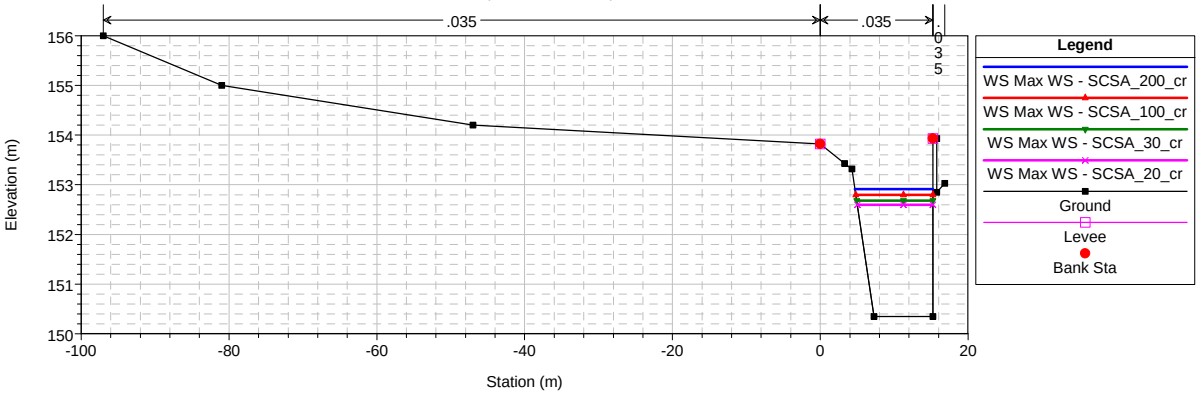
River = Caspri Reach = Caspri RS = 157 Noferi 11



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

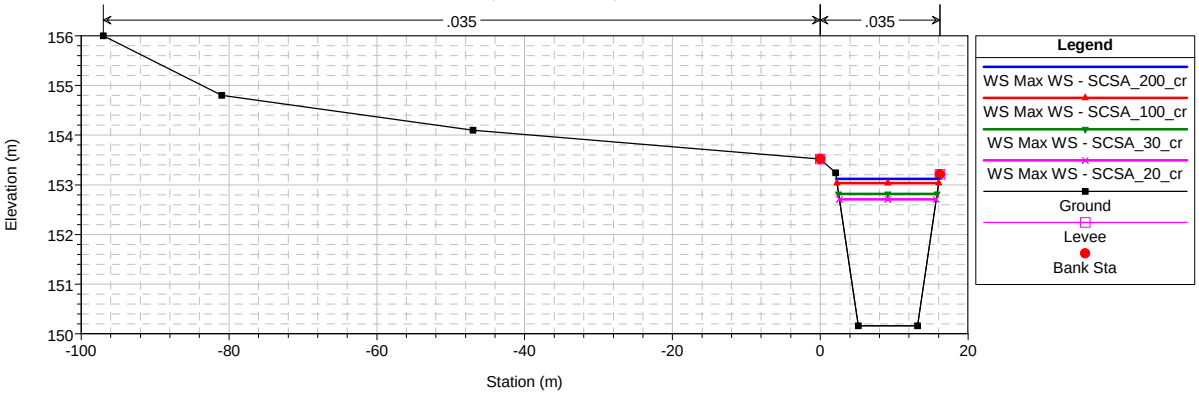
River = Caspri Reach = Caspri RS = 156 Noferi 10



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

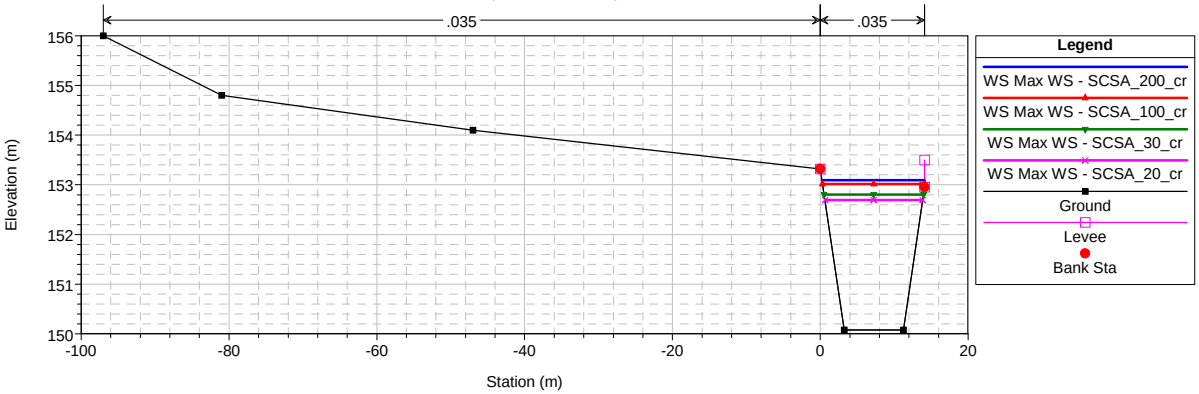
River = Caspri Reach = Caspri RS = 155 Noferi 9



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

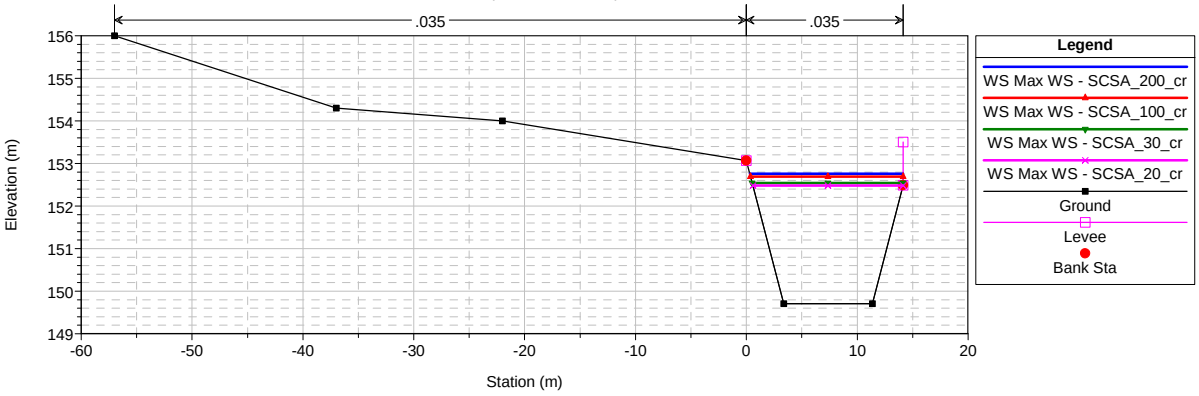
River = Caspri Reach = Caspri RS = 154 Noferi 8



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

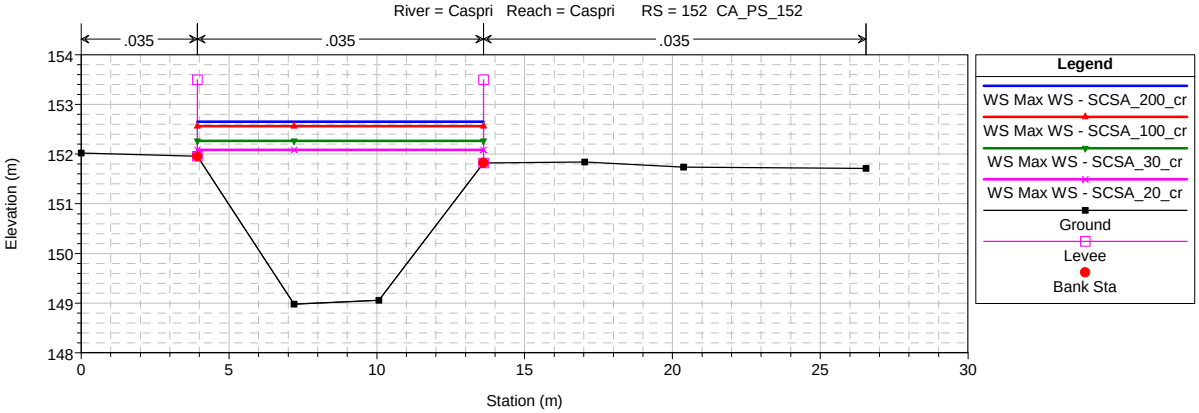
River = Caspri Reach = Caspri RS = 153 Noferi 7



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

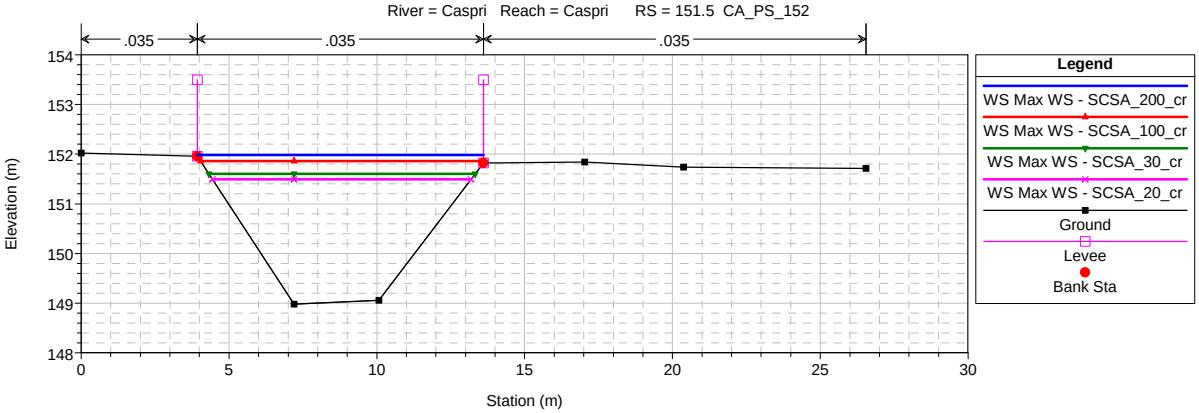
River = Caspri Reach = Caspri RS = 152 CA_PS_152



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

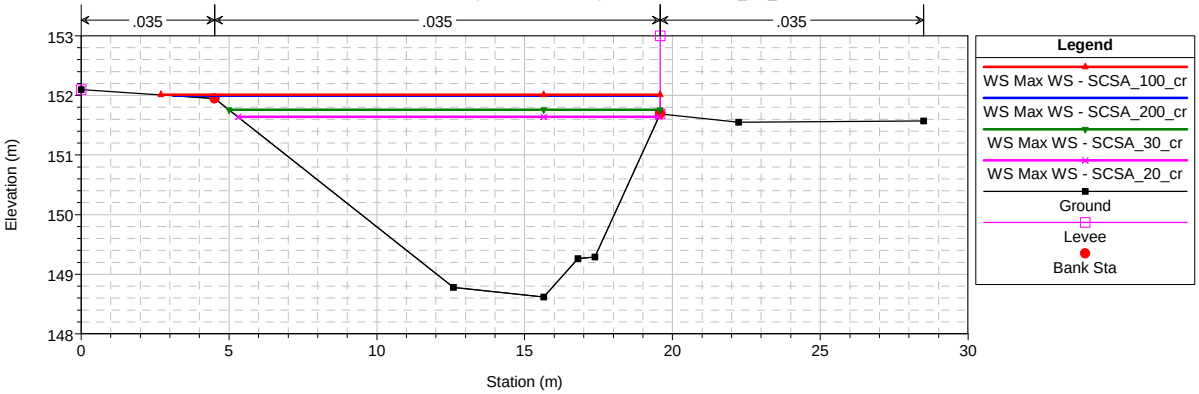
River = Caspri Reach = Caspri RS = 151.5 CA_PS_152



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

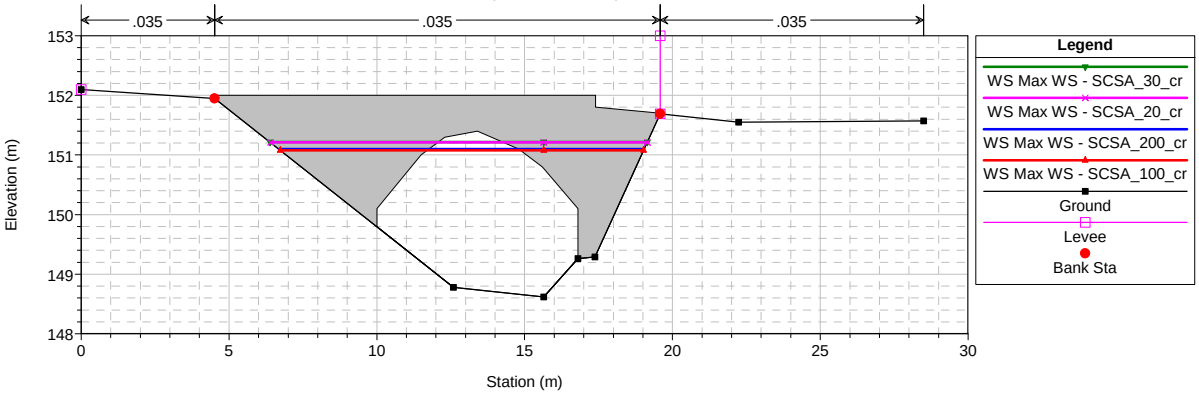
River = Caspri Reach = Caspri RS = 151 CA_PS_151



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

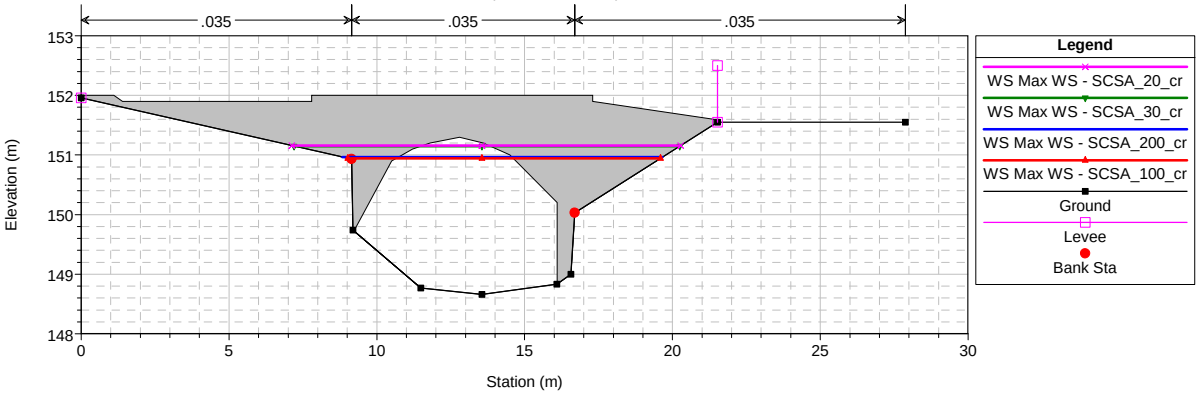
River = Caspri Reach = Caspri RS = 150.5 BR



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

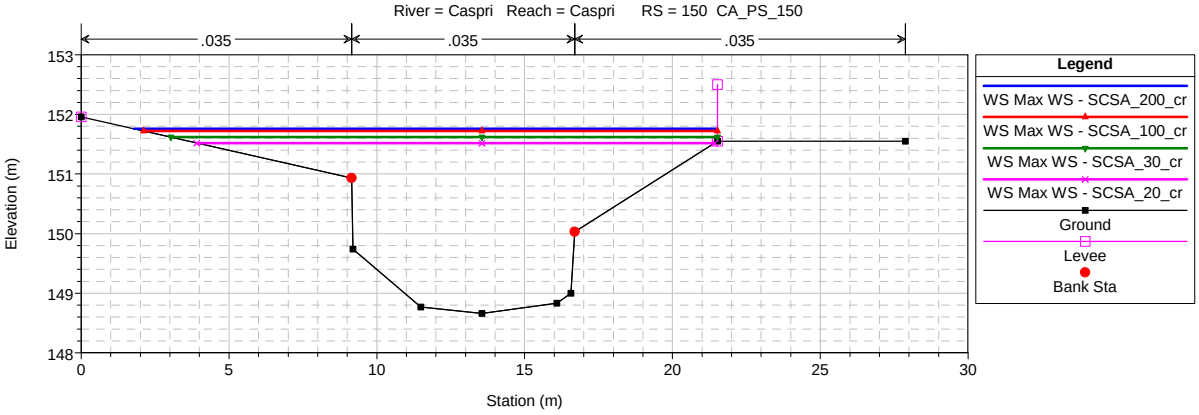
River = Caspri Reach = Caspri RS = 150.5 BR



Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

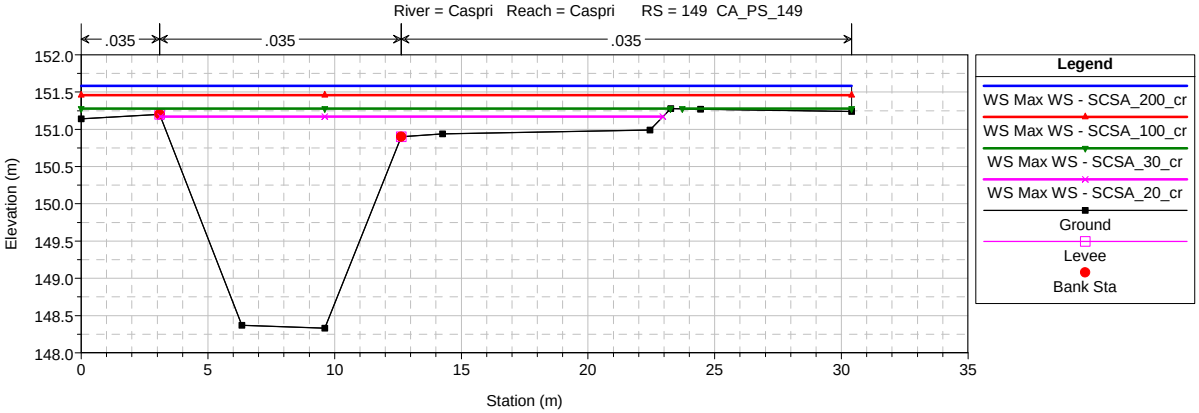
River = Caspri Reach = Caspri RS = 150 CA_PS_150

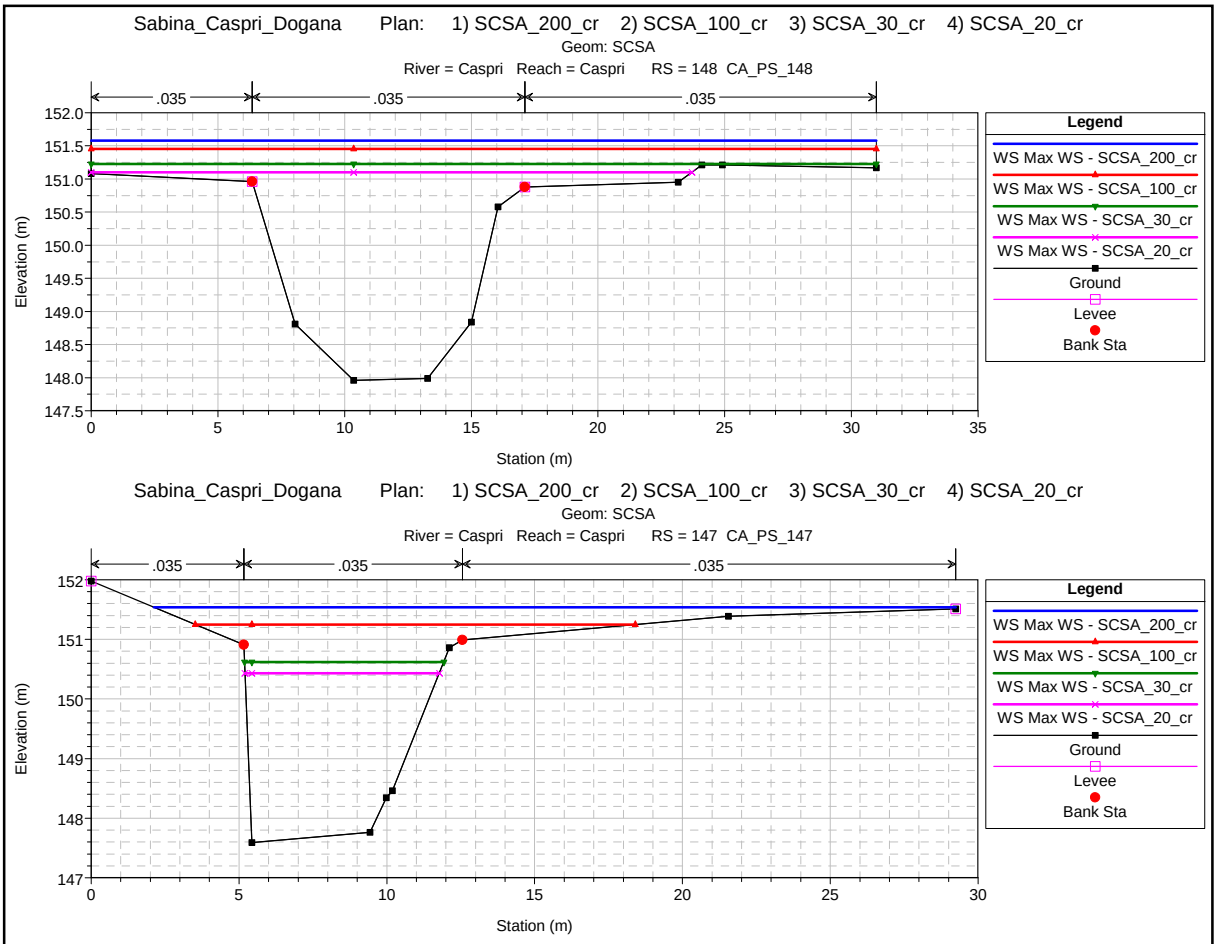


Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr

Geom: SCSA

River = Caspri Reach = Caspri RS = 149 CA_PS_149




Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 148 CA_PS_148
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) SCSA_200_cr 2) SCSA_100_cr 3) SCSA_30_cr 4) SCSA_20_cr
Geom: SCSA
River = Caspri Reach = Caspri RS = 147 CA_PS_147
.035
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SCSA_200_cr
WS Max WS - SCSA_100_cr
WS Max WS - SCSA_30_cr
WS Max WS - SCSA_20_cr
Ground
Levee
Bank Sta

HEC-RAS River: Caspri Reach: Caspri Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caspri	182	Max WS	SCSA_200_cr	104.27	153.73	156.64		157.08	0.004591	3.02	41.44	53.66	0.60
Caspri	182	Max WS	SCSA_100_cr	86.25	153.73	156.35		156.81	0.005205	3.00	28.78	15.45	0.63
Caspri	182	Max WS	SCSA_30_cr	62.33	153.73	156.21		156.48	0.003238	2.31	27.00	12.32	0.50
Caspri	182	Max WS	SCSA_20_cr	55.38	153.73	156.02		156.27	0.003260	2.24	24.68	11.87	0.50
Caspri	181.99	Max WS	SCSA_200_cr	104.27	153.73	156.64		157.08	0.004591	3.02	41.44	53.66	0.60
Caspri	181.99	Max WS	SCSA_100_cr	86.25	153.73	156.35		156.81	0.005207	3.00	28.78	15.42	0.63
Caspri	181.99	Max WS	SCSA_30_cr	62.33	153.73	156.21		156.48	0.003238	2.31	27.00	12.32	0.50
Caspri	181.99	Max WS	SCSA_20_cr	55.38	153.73	156.02		156.27	0.003260	2.24	24.68	11.87	0.50
Caspri	181.9			Lat Struct									
Caspri	181	Max WS	SCSA_200_cr	103.32	153.62	156.69		156.97	0.002976	2.50	52.59	59.79	0.48
Caspri	181	Max WS	SCSA_100_cr	86.29	153.62	156.47		156.77	0.003232	2.48	40.22	51.98	0.50
Caspri	181	Max WS	SCSA_30_cr	62.33	153.62	156.25		156.46	0.002451	2.05	30.43	15.71	0.43
Caspri	181	Max WS	SCSA_20_cr	55.38	153.62	156.06		156.26	0.002443	1.98	27.91	12.86	0.43
Caspri	180	Max WS	SCSA_200_cr	103.15	153.63	156.70		156.95	0.002597	2.39	59.82	79.44	0.45
Caspri	180	Max WS	SCSA_100_cr	86.22	153.63	156.46		156.75	0.003083	2.46	42.68	60.29	0.49
Caspri	180	Max WS	SCSA_30_cr	62.32	153.63	156.23		156.45	0.002438	2.08	30.97	38.04	0.43
Caspri	180	Max WS	SCSA_20_cr	55.38	153.63	156.03		156.24	0.002501	2.02	27.39	12.39	0.43
Caspri	179	Max WS	SCSA_200_cr	103.15	153.50	156.76		156.89	0.001553	1.86	80.83	91.78	0.35
Caspri	179	Max WS	SCSA_100_cr	86.06	153.50	156.51		156.68	0.001898	1.96	60.59	76.77	0.39
Caspri	179	Max WS	SCSA_30_cr	62.31	153.50	156.25		156.40	0.001852	1.82	42.21	59.97	0.38
Caspri	179	Max WS	SCSA_20_cr	55.38	153.50	156.00		156.20	0.002377	1.95	28.36	13.12	0.42
Caspri	178	Max WS	SCSA_200_cr	103.15	153.42	156.73		156.87	0.001487	1.83	77.31	76.56	0.35
Caspri	178	Max WS	SCSA_100_cr	86.00	153.42	156.50		156.65	0.001732	1.87	60.53	67.35	0.37
Caspri	178	Max WS	SCSA_30_cr	62.30	153.42	156.20		156.38	0.001980	1.87	33.23	14.27	0.39
Caspri	178	Max WS	SCSA_20_cr	55.38	153.42	156.00		156.17	0.001956	1.81	30.52	13.68	0.39
Caspri	177	Max WS	SCSA_200_cr	103.15	153.26	156.61		156.84	0.003514	2.44	58.66	72.99	0.52
Caspri	177	Max WS	SCSA_100_cr	85.71	153.26	156.29		156.67	0.004637	2.88	38.30	58.42	0.59
Caspri	177	Max WS	SCSA_30_cr	64.92	153.26	155.94		156.35	0.005207	2.85	22.82	10.61	0.62
Caspri	177	Max WS	SCSA_20_cr	55.37	153.26	155.74		156.11	0.004884	2.66	20.81	10.31	0.60
Caspri	176	Max WS	SCSA_200_cr	103.14	153.04	156.48		156.75	0.003194	2.64	56.25	65.17	0.50
Caspri	176	Max WS	SCSA_100_cr	84.49	153.04	156.13	155.59	156.58	0.005378	3.14	34.89	55.69	0.63

HEC-RAS River: Caspri Reach: Caspri Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caspri	176	Max WS	SCSA_30_cr	64.60	153.04	155.71		156.23	0.006988	3.20	20.21	9.94	0.70
Caspri	176	Max WS	SCSA_20_cr	55.37	153.04	155.42		155.93	0.007674	3.17	17.45	9.14	0.73
Caspri	175	Max WS	SCSA_200_cr	103.14	152.96	156.32	156.35	156.77	0.004899	3.14	43.08	55.94	0.60
Caspri	175	Max WS	SCSA_100_cr	83.77	152.96	156.07	155.39	156.58	0.005582	3.19	29.35	51.57	0.64
Caspri	175	Max WS	SCSA_30_cr	64.59	152.96	155.68	155.04	156.12	0.005668	2.95	21.89	10.09	0.64
Caspri	175	Max WS	SCSA_20_cr	55.37	152.96	155.44	154.85	155.85	0.005677	2.83	19.56	9.73	0.64
Caspri	174.5			Bridge									
Caspri	174	Max WS	SCSA_200_cr	103.14	152.93	156.24	156.33	156.76	0.005796	3.34	38.94	54.22	0.65
Caspri	174	Max WS	SCSA_100_cr	88.40	152.93	155.94		156.58	0.007461	3.55	24.90	12.04	0.74
Caspri	174	Max WS	SCSA_30_cr	64.58	152.93	155.66		156.10	0.005635	2.94	21.94	10.09	0.64
Caspri	174	Max WS	SCSA_20_cr	55.37	152.93	155.43		155.83	0.005589	2.82	19.67	9.74	0.63
Caspri	173.9			Lat Struct									
Caspri	173	Max WS	SCSA_200_cr	103.17	152.47	156.01		156.43	0.003729	2.87	36.01	13.52	0.56
Caspri	173	Max WS	SCSA_100_cr	87.46	152.47	155.86		156.20	0.003141	2.58	33.95	13.07	0.51
Caspri	173	Max WS	SCSA_30_cr	64.27	152.47	155.63		155.85	0.002223	2.07	31.04	12.90	0.43
Caspri	173	Max WS	SCSA_20_cr	55.36	152.47	155.39		155.59	0.002236	1.98	27.91	12.60	0.43
Caspri	172	Max WS	SCSA_200_cr	103.09	152.38	155.92	155.41	156.58	0.003408	3.66	30.90	25.31	0.72
Caspri	172	Max WS	SCSA_100_cr	87.28	152.38	155.68	155.16	156.29	0.003384	3.46	25.73	18.80	0.72
Caspri	172	Max WS	SCSA_30_cr	64.23	152.38	155.39	154.71	155.82	0.002644	2.90	22.12	10.24	0.63
Caspri	172	Max WS	SCSA_20_cr	55.36	152.38	155.16	154.53	155.56	0.002660	2.80	19.79	9.90	0.63
Caspri	171.5			Bridge									
Caspri	171	Max WS	SCSA_200_cr	103.08	152.36	155.88	155.55	156.64	0.004033	3.87	27.88	22.55	0.80
Caspri	171	Max WS	SCSA_100_cr	87.22	152.36	155.65		156.33	0.004022	3.65	23.87	11.06	0.79
Caspri	171	Max WS	SCSA_30_cr	64.23	152.36	155.29		155.81	0.003475	3.20	20.04	10.16	0.73
Caspri	171	Max WS	SCSA_20_cr	55.32	152.36	155.06		155.55	0.003519	3.11	17.79	9.50	0.73
Caspri	170	Max WS	SCSA_200_cr	103.25	152.26	155.82		156.26	0.004314	3.09	39.96	33.48	0.61
Caspri	170	Max WS	SCSA_100_cr	88.41	152.26	155.69		156.08	0.003941	2.88	35.85	30.71	0.58
Caspri	170	Max WS	SCSA_30_cr	64.17	152.26	155.40		155.71	0.003468	2.51	27.74	24.32	0.54
Caspri	170	Max WS	SCSA_20_cr	55.36	152.26	155.18		155.49	0.003716	2.47	23.04	19.54	0.56

HEC-RAS River: Caspri Reach: Caspri Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caspri	169	Max WS	SCSA_200_cr	103.23	152.18	155.69	155.19	156.26	0.005525	3.41	34.67	35.34	0.68
Caspri	169	Max WS	SCSA_100_cr	88.27	152.18	155.59		156.07	0.004818	3.11	31.17	30.46	0.64
Caspri	169	Max WS	SCSA_30_cr	64.10	152.18	155.32		155.67	0.003857	2.61	24.64	18.14	0.57
Caspri	169	Max WS	SCSA_20_cr	55.35	152.18	155.13		155.44	0.003723	2.46	22.48	11.21	0.56
Caspri	168	Max WS	SCSA_200_cr	103.20	152.08	155.68		156.08	0.004543	2.98	44.31	57.50	0.62
Caspri	168	Max WS	SCSA_100_cr	87.94	152.08	155.56		155.94	0.004325	2.82	37.79	52.87	0.60
Caspri	168	Max WS	SCSA_30_cr	64.04	152.08	155.29		155.61	0.003908	2.52	25.43	12.75	0.57
Caspri	168	Max WS	SCSA_20_cr	55.35	152.08	155.11		155.40	0.003361	2.37	23.34	11.40	0.53
Caspri	167	Max WS	SCSA_200_cr	103.13	151.72	155.65		155.87	0.002145	2.30	62.35	63.40	0.43
Caspri	167	Max WS	SCSA_100_cr	87.29	151.72	155.52		155.72	0.002034	2.19	54.22	59.70	0.42
Caspri	167	Max WS	SCSA_30_cr	63.35	151.72	155.20		155.41	0.002145	2.10	36.29	50.58	0.43
Caspri	167	Max WS	SCSA_20_cr	55.32	151.72	155.05		155.26	0.002157	2.04	29.42	46.61	0.43
Caspri	166	Max WS	SCSA_200_cr	103.13	151.63	155.66		155.83	0.001613	2.05	70.08	69.60	0.37
Caspri	166	Max WS	SCSA_100_cr	87.28	151.63	155.53		155.69	0.001500	1.93	61.28	64.70	0.36
Caspri	166	Max WS	SCSA_30_cr	63.29	151.63	155.23		155.38	0.001439	1.79	43.40	53.37	0.35
Caspri	166	Max WS	SCSA_20_cr	55.33	151.63	155.08		155.23	0.001446	1.74	35.99	47.90	0.35
Caspri	165	Max WS	SCSA_200_cr	103.13	151.53	155.68		155.80	0.001081	1.73	83.72	75.60	0.31
Caspri	165	Max WS	SCSA_100_cr	87.26	151.53	155.55		155.66	0.000996	1.62	74.13	70.98	0.30
Caspri	165	Max WS	SCSA_30_cr	63.24	151.53	155.26		155.36	0.000943	1.49	54.51	60.44	0.29
Caspri	165	Max WS	SCSA_20_cr	55.33	151.53	155.11		155.21	0.000968	1.47	45.89	55.18	0.29
Caspri	164	Max WS	SCSA_200_cr	103.13	151.45	155.67		155.79	0.001281	1.85	81.22	76.53	0.31
Caspri	164	Max WS	SCSA_100_cr	87.21	151.45	155.53		155.65	0.001192	1.75	71.49	71.62	0.30
Caspri	164	Max WS	SCSA_30_cr	63.20	151.45	155.23		155.35	0.001159	1.64	51.55	60.31	0.30
Caspri	164	Max WS	SCSA_20_cr	55.33	151.45	155.08		155.20	0.001209	1.63	42.66	54.52	0.30
Caspri	163	Max WS	SCSA_200_cr	103.13	151.36	155.54	153.91	155.79	0.001973	2.28	55.12	54.57	0.39
Caspri	163	Max WS	SCSA_100_cr	87.17	151.36	155.44	153.66	155.65	0.001624	2.03	50.05	47.84	0.35
Caspri	163	Max WS	SCSA_30_cr	63.17	151.36	155.19	153.24	155.33	0.001180	1.66	40.15	30.72	0.30
Caspri	163	Max WS	SCSA_20_cr	55.33	151.36	155.06	153.09	155.18	0.001052	1.53	36.71	21.80	0.28
Caspri	162.5			Bridge									
Caspri	162	Max WS	SCSA_200_cr	103.13	151.36	154.15		155.00	0.009890	4.07	25.34	11.12	0.86
Caspri	162	Max WS	SCSA_100_cr	87.17	151.36	153.87		154.65	0.010093	3.91	22.28	10.71	0.87

HEC-RAS River: Caspri Reach: Caspri Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caspri	162	Max WS	SCSA_30_cr	63.17	151.36	153.41		154.07	0.010419	3.61	17.51	10.04	0.87
Caspri	162	Max WS	SCSA_20_cr	55.33	151.36	153.25		153.87	0.010509	3.48	15.90	9.80	0.87
Caspri	161	Max WS	SCSA_200_cr	103.13	151.27	154.31		154.87	0.005727	3.31	31.16	12.47	0.67
Caspri	161	Max WS	SCSA_100_cr	87.16	151.27	154.02		154.53	0.005787	3.17	27.50	12.03	0.67
Caspri	161	Max WS	SCSA_30_cr	63.17	151.27	153.53		153.95	0.005861	2.90	21.78	11.31	0.67
Caspri	161	Max WS	SCSA_20_cr	55.33	151.27	153.35		153.75	0.005852	2.79	19.85	11.06	0.66
Caspri	160	Max WS	SCSA_200_cr	103.13	151.04	153.96		154.67	0.007595	3.73	27.63	10.92	0.75
Caspri	160	Max WS	SCSA_100_cr	87.12	151.04	153.69		154.32	0.007376	3.52	24.75	10.65	0.74
Caspri	160	Max WS	SCSA_30_cr	63.11	151.04	153.26		153.75	0.006895	3.13	20.19	10.22	0.71
Caspri	160	Max WS	SCSA_20_cr	55.33	151.04	153.10		153.55	0.006688	2.97	18.62	10.06	0.70
Caspri	159	Max WS	SCSA_200_cr	103.13	151.02	153.93		154.65	0.007646	3.74	27.56	10.91	0.75
Caspri	159	Max WS	SCSA_100_cr	87.12	151.02	153.67		154.30	0.007420	3.53	24.70	10.65	0.74
Caspri	159	Max WS	SCSA_30_cr	63.11	151.02	153.24		153.73	0.006906	3.13	20.18	10.22	0.71
Caspri	159	Max WS	SCSA_20_cr	55.33	151.02	153.08		153.53	0.006689	2.97	18.62	10.06	0.70
Caspri	158	Max WS	SCSA_200_cr	103.13	150.69	153.56		154.30	0.008062	3.81	27.04	10.87	0.77
Caspri	158	Max WS	SCSA_100_cr	87.10	150.69	153.33		153.97	0.007523	3.54	24.57	10.64	0.74
Caspri	158	Max WS	SCSA_30_cr	63.04	150.69	152.97		153.43	0.006311	3.03	20.81	10.28	0.68
Caspri	158	Max WS	SCSA_20_cr	55.33	150.69	152.83		153.25	0.005892	2.84	19.46	10.14	0.66
Caspri	157	Max WS	SCSA_200_cr	103.13	150.55	153.27		154.14	0.010089	4.14	24.90	10.53	0.86
Caspri	157	Max WS	SCSA_100_cr	87.10	150.55	153.08		153.81	0.009074	3.80	22.93	10.34	0.81
Caspri	157	Max WS	SCSA_30_cr	63.03	150.55	152.81		153.30	0.006830	3.12	20.18	10.07	0.70
Caspri	157	Max WS	SCSA_20_cr	55.31	150.55	152.70		153.13	0.006156	2.90	19.09	9.96	0.67
Caspri	156.9			Lat Struct									
Caspri	156	Max WS	SCSA_200_cr	103.13	150.35	152.91		153.87	0.011601	4.34	23.76	10.56	0.92
Caspri	156	Max WS	SCSA_100_cr	87.09	150.35	152.80		153.56	0.009554	3.86	22.58	10.45	0.84
Caspri	156	Max WS	SCSA_30_cr	63.02	150.35	152.68		153.12	0.005846	2.95	21.37	10.33	0.65
Caspri	156	Max WS	SCSA_20_cr	55.21	150.35	152.60		152.97	0.005034	2.69	20.53	10.25	0.61
Caspri	155	Max WS	SCSA_200_cr	103.13	150.16	153.12		153.64	0.004969	3.18	32.45	13.92	0.66
Caspri	155	Max WS	SCSA_100_cr	87.09	150.16	153.04		153.43	0.003922	2.78	31.30	13.75	0.59
Caspri	155	Max WS	SCSA_30_cr	63.01	150.16	152.82		153.07	0.002719	2.22	28.32	13.31	0.49
Caspri	155	Max WS	SCSA_20_cr	55.25	150.16	152.71		152.92	0.002430	2.06	26.85	13.09	0.46

HEC-RAS River: Caspri Reach: Caspri Profile: Max WS (Continued)

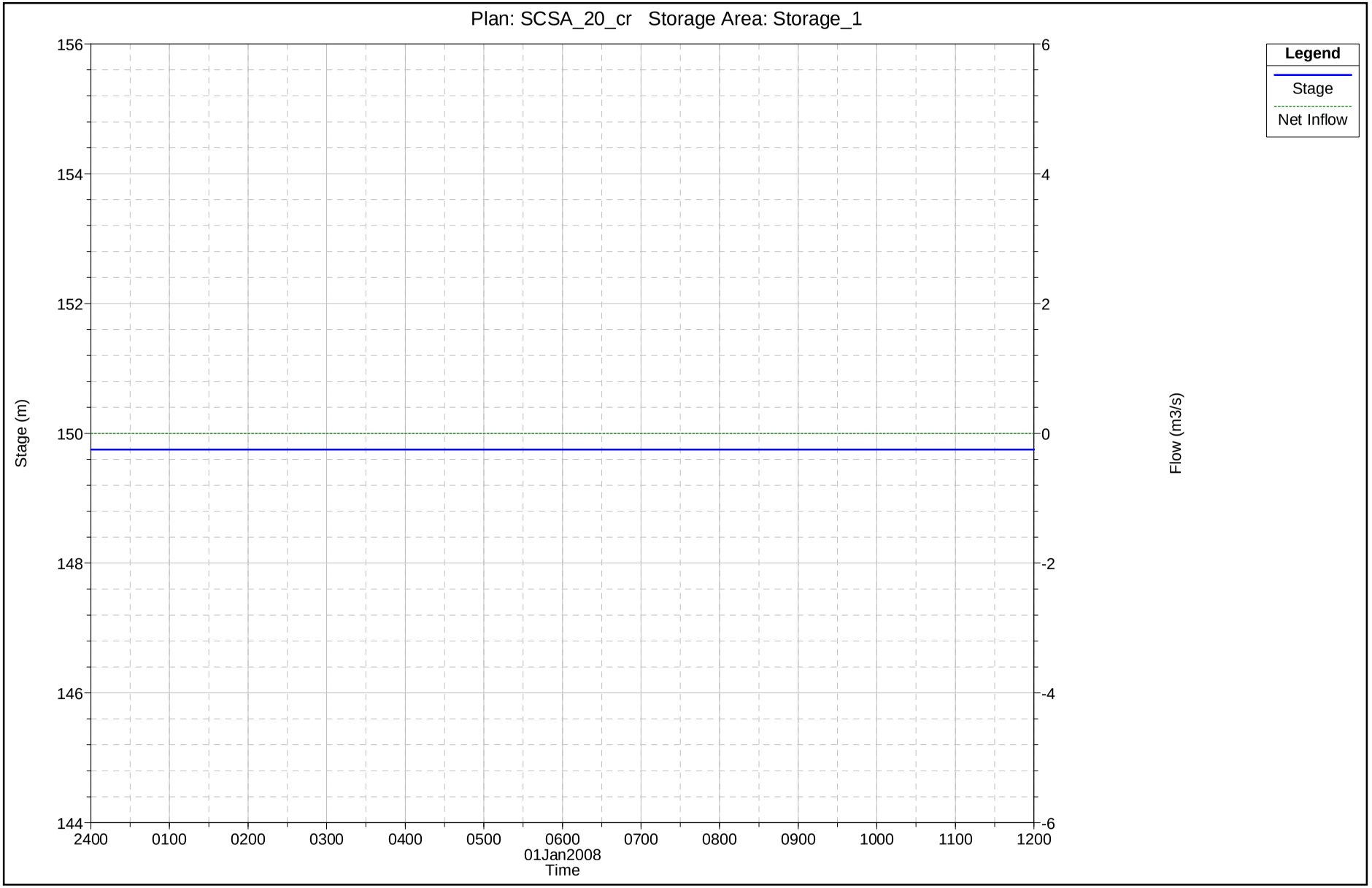
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caspri	154	Max WS	SCSA_200_cr	102.96	150.08	153.10		153.59	0.004620	3.10	33.21	13.89	0.64
Caspri	154	Max WS	SCSA_100_cr	87.07	150.08	153.02		153.39	0.003634	2.71	32.13	13.81	0.57
Caspri	154	Max WS	SCSA_30_cr	62.99	150.08	152.81		153.04	0.002486	2.16	29.23	13.45	0.47
Caspri	154	Max WS	SCSA_20_cr	55.24	150.08	152.70		152.90	0.002210	1.99	27.76	13.23	0.44
Caspri	153	Max WS	SCSA_200_cr	92.82	149.71	152.76		153.15	0.003599	2.76	33.68	13.83	0.56
Caspri	153	Max WS	SCSA_100_cr	81.36	149.71	152.69		153.01	0.002998	2.49	32.74	13.76	0.51
Caspri	153	Max WS	SCSA_30_cr	62.79	149.71	152.55		152.76	0.002145	2.04	30.72	13.62	0.43
Caspri	153	Max WS	SCSA_20_cr	55.14	149.71	152.48		152.65	0.001804	1.85	29.80	13.54	0.40
Caspri	152.8			Lat Struct									
Caspri	152	Max WS	SCSA_200_cr	66.15	148.98	152.65		153.00	0.003508	2.60	25.40	9.68	0.51
Caspri	152	Max WS	SCSA_100_cr	58.29	148.98	152.56		152.85	0.003001	2.37	24.55	9.68	0.48
Caspri	152	Max WS	SCSA_30_cr	46.31	148.98	152.27		152.50	0.002695	2.14	21.68	9.68	0.46
Caspri	152	Max WS	SCSA_20_cr	46.14	148.98	152.08		152.36	0.003426	2.32	19.89	9.68	0.52
Caspri	151.5	Max WS	SCSA_200_cr	82.27	148.98	151.98	151.97	152.95	0.012600	4.35	18.91	9.68	0.99
Caspri	151.5	Max WS	SCSA_100_cr	74.40	148.98	151.86	151.84	152.76	0.012321	4.19	17.75	9.57	0.98
Caspri	151.5	Max WS	SCSA_30_cr	58.17	148.98	151.60		152.34	0.011179	3.79	15.34	9.01	0.93
Caspri	151.5	Max WS	SCSA_20_cr	52.77	148.98	151.49		152.18	0.011011	3.68	14.34	8.74	0.92
Caspri	151	Max WS	SCSA_200_cr	68.79	148.62	152.00	150.99	152.24	0.002559	2.17	31.71	16.47	0.48
Caspri	151	Max WS	SCSA_100_cr	68.02	148.62	152.01	150.98	152.24	0.002450	2.13	31.94	16.89	0.47
Caspri	151	Max WS	SCSA_30_cr	58.17	148.62	151.76	150.81	151.98	0.002557	2.07	28.14	14.58	0.48
Caspri	151	Max WS	SCSA_20_cr	52.75	148.62	151.64	150.70	151.84	0.002497	2.00	26.42	14.23	0.47
Caspri	150.5			Bridge									
Caspri	150	Max WS	SCSA_200_cr	82.47	148.66	151.76		152.26	0.004752	3.30	29.10	19.74	0.63
Caspri	150	Max WS	SCSA_100_cr	74.06	148.66	151.72		152.14	0.004064	3.03	28.39	19.41	0.58
Caspri	150	Max WS	SCSA_30_cr	58.14	148.66	151.62		151.91	0.002964	2.52	26.43	18.49	0.49
Caspri	150	Max WS	SCSA_20_cr	52.75	148.66	151.52		151.80	0.002873	2.42	24.64	17.51	0.48
Caspri	149.9			Lat Struct									
Caspri	149.8			Lat Struct									

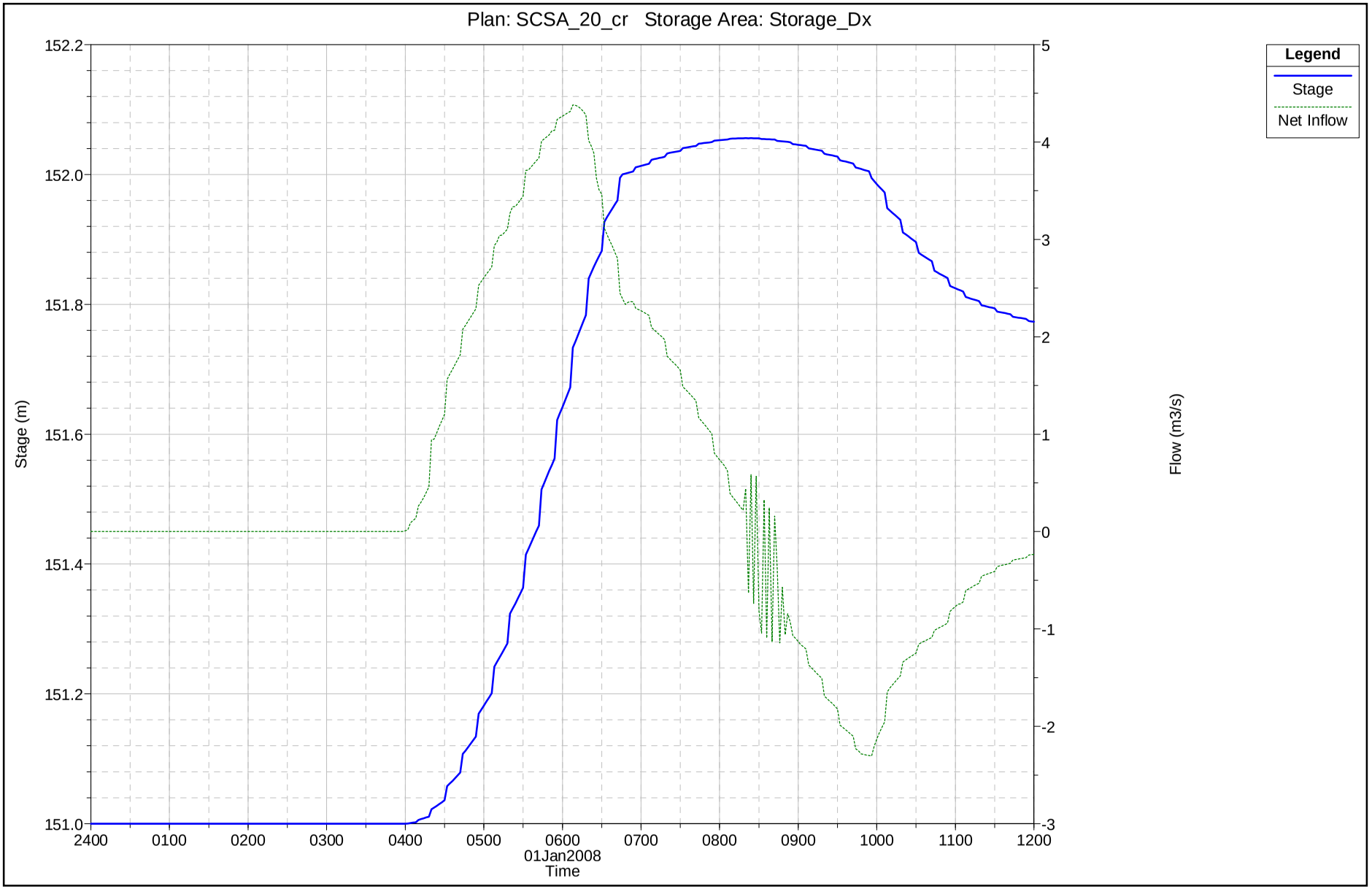
HEC-RAS River: Caspri Reach: Caspri Profile: Max WS (Continued)

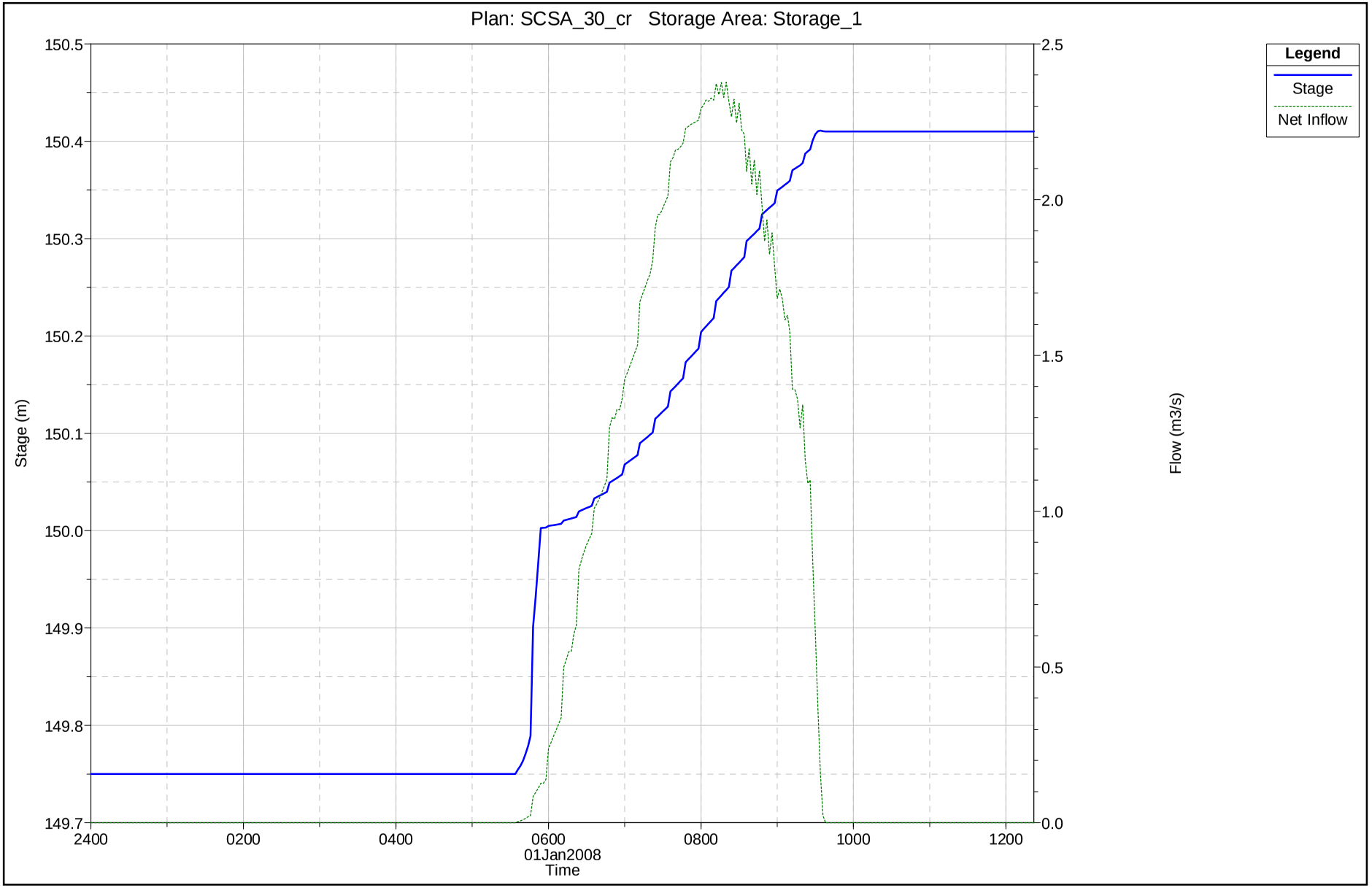
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caspri	149	Max WS	SCSA_200_cr	66.09	148.33	151.59		151.87	0.003197	2.51	32.51	30.40	0.52
Caspri	149	Max WS	SCSA_100_cr	65.55	148.33	151.46		151.81	0.004185	2.77	28.68	30.40	0.59
Caspri	149	Max WS	SCSA_30_cr	57.19	148.33	151.28		151.65	0.004758	2.79	23.12	29.95	0.62
Caspri	149	Max WS	SCSA_20_cr	52.74	148.33	151.17		151.55	0.005068	2.78	20.53	19.82	0.64
Caspri	148	Max WS	SCSA_200_cr	62.83	147.96	151.58		151.74	0.001533	1.90	39.81	30.98	0.37
Caspri	148	Max WS	SCSA_100_cr	62.36	147.96	151.45		151.65	0.001912	2.05	35.89	30.98	0.41
Caspri	148	Max WS	SCSA_30_cr	56.20	147.96	151.23		151.46	0.002392	2.16	28.87	30.98	0.45
Caspri	148	Max WS	SCSA_20_cr	52.74	147.96	151.10		151.34	0.002598	2.17	25.69	23.71	0.46
Caspri	147	Max WS	SCSA_200_cr	44.88	147.59	151.54	149.81	151.71	0.001865	1.89	27.33	27.12	0.35
Caspri	147	Max WS	SCSA_100_cr	55.48	147.59	151.25	150.10	151.62	0.004340	2.69	21.43	14.88	0.52
Caspri	147	Max WS	SCSA_30_cr	55.75	147.59	150.62	150.11	151.25	0.009059	3.51	15.89	6.74	0.73
Caspri	147	Max WS	SCSA_20_cr	52.41	147.59	150.43	150.02	151.08	0.009995	3.58	14.63	6.57	0.77

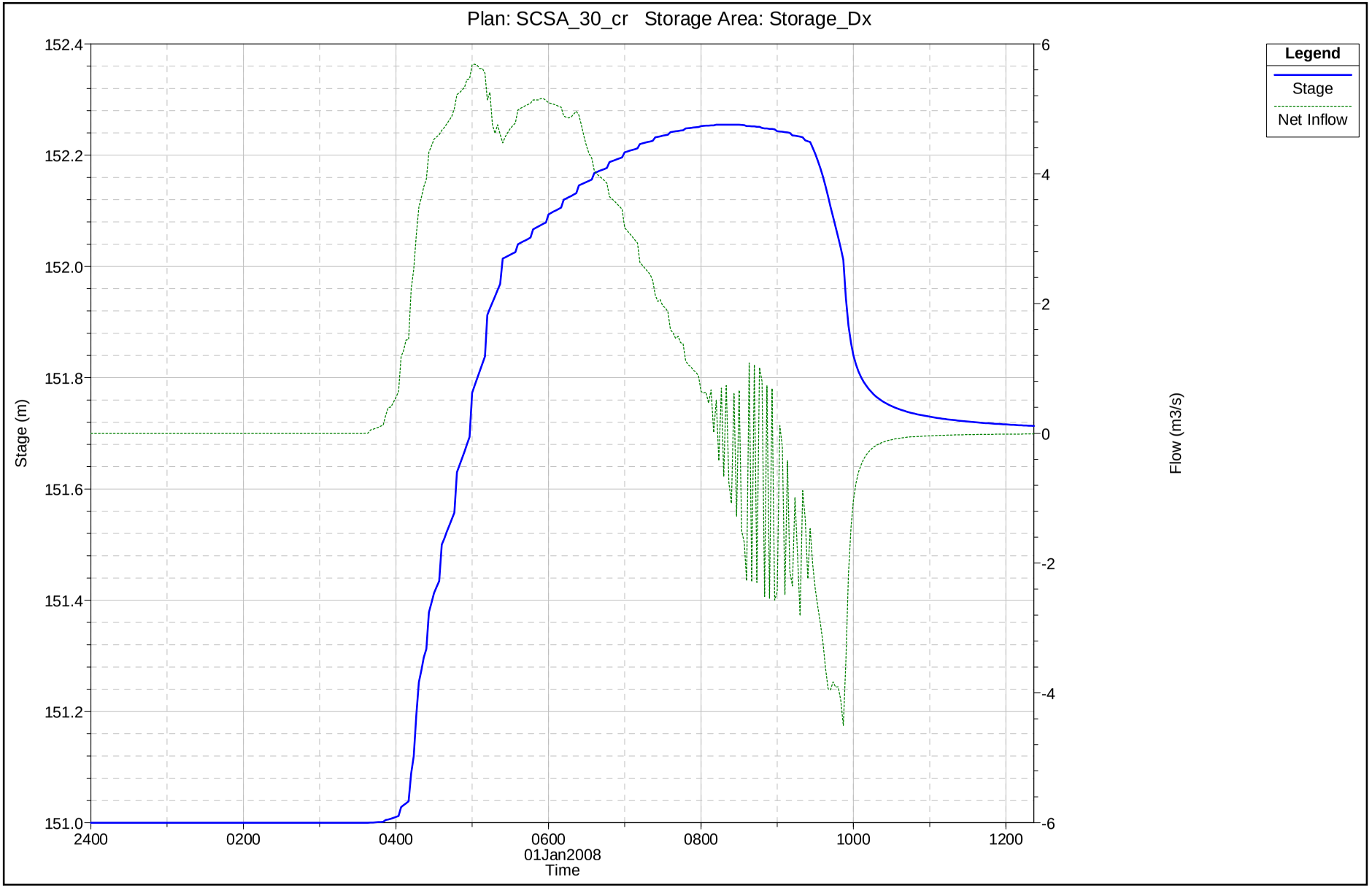
HEC-RAS Profile: Max WS

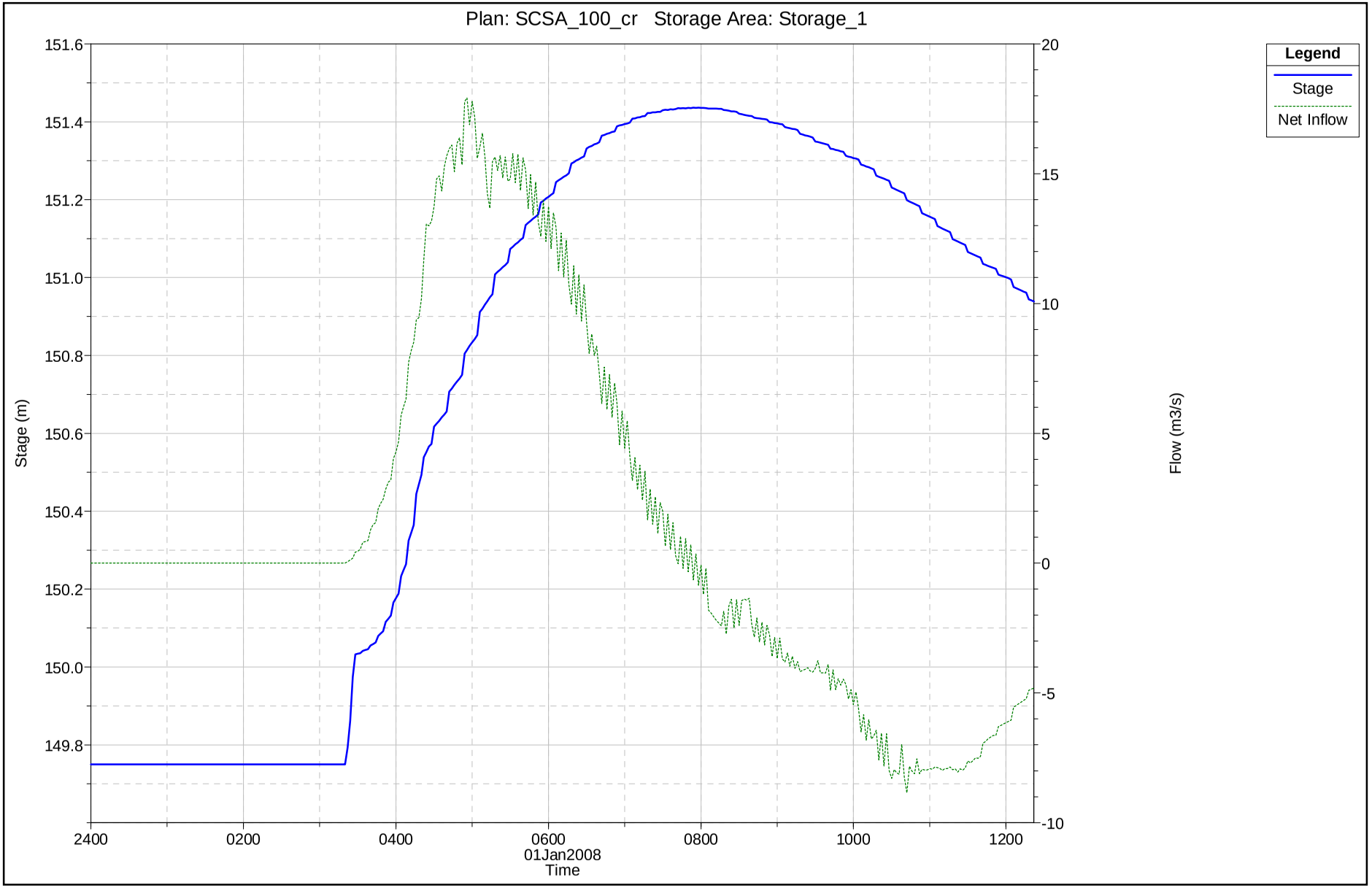
Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
Dogana_dx_1	Max WS	SCSA_200_cr	149.07	148.80	3.45	33.81	9.16
Dogana_dx_1	Max WS	SCSA_100_cr	148.84	148.80	0.72	33.81	1.25
Dogana_dx_1	Max WS	SCSA_30_cr	148.80	148.80	0.00	33.81	0.00
Dogana_dx_1	Max WS	SCSA_20_cr	148.80	148.80	0.00	33.81	0.00
Storage_1	Max WS	SCSA_200_cr	151.58	149.75	27.31	41.37	34.36
Storage_1	Max WS	SCSA_100_cr	151.44	149.75	3.28	31.32	29.05
Storage_1	Max WS	SCSA_30_cr	150.41	149.75	2.46	9.70	3.99
Storage_1	Max WS	SCSA_20_cr	149.75	149.75	0.00	0.04	0.00
Storage_Dx	Max WS	SCSA_200_cr	152.66	151.00	29.77	25.15	21.63
Storage_Dx	Max WS	SCSA_100_cr	152.55	151.00	21.53	25.15	18.90
Storage_Dx	Max WS	SCSA_30_cr	152.25	151.00	2.17	25.15	11.56
Storage_Dx	Max WS	SCSA_20_cr	152.06	151.00	1.26	25.15	6.55

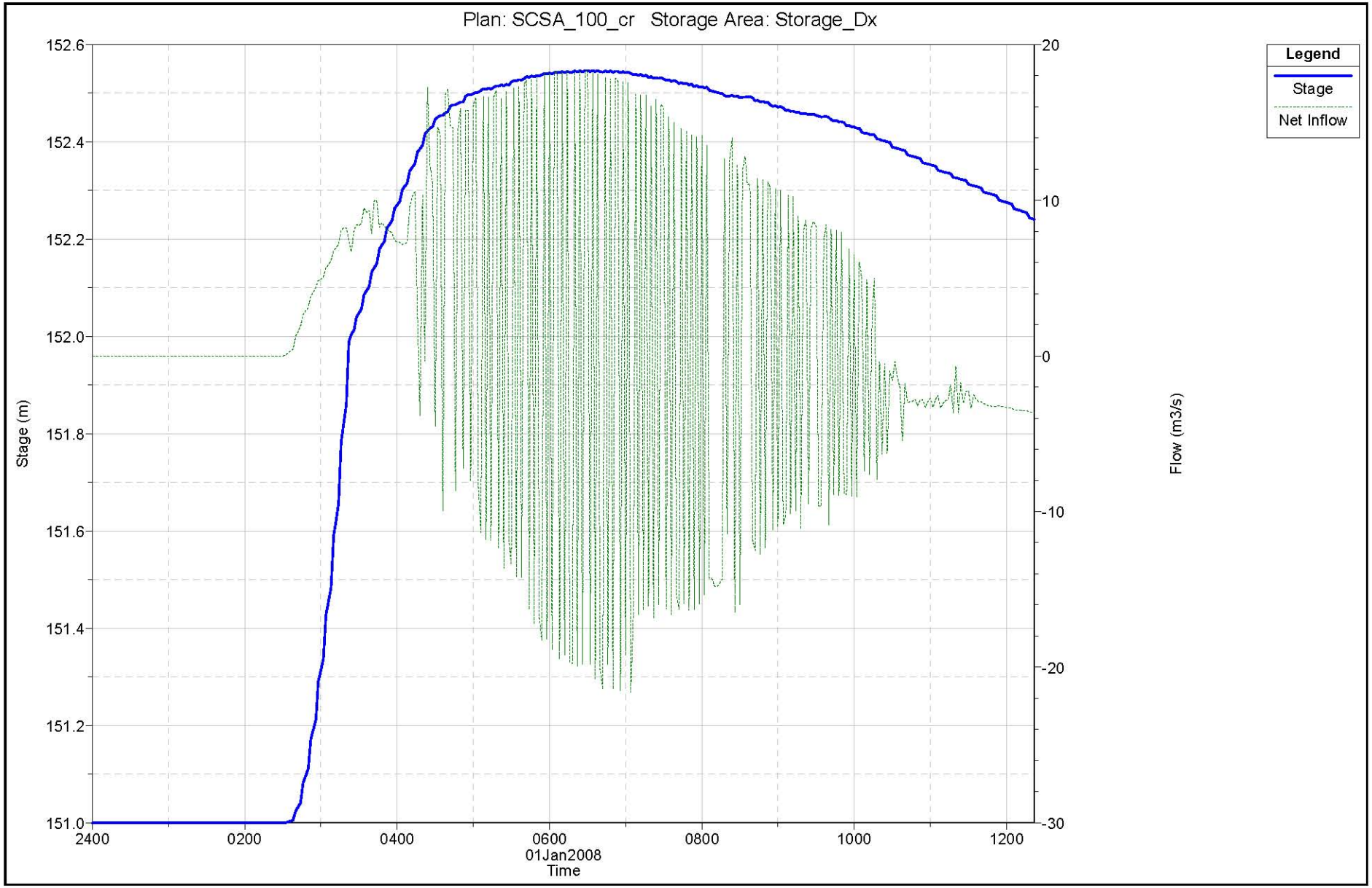

Plan: SCSA_20_cr Storage Area: Storage_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
156
154
152
150
148
146
144
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
01Jan2008
Time

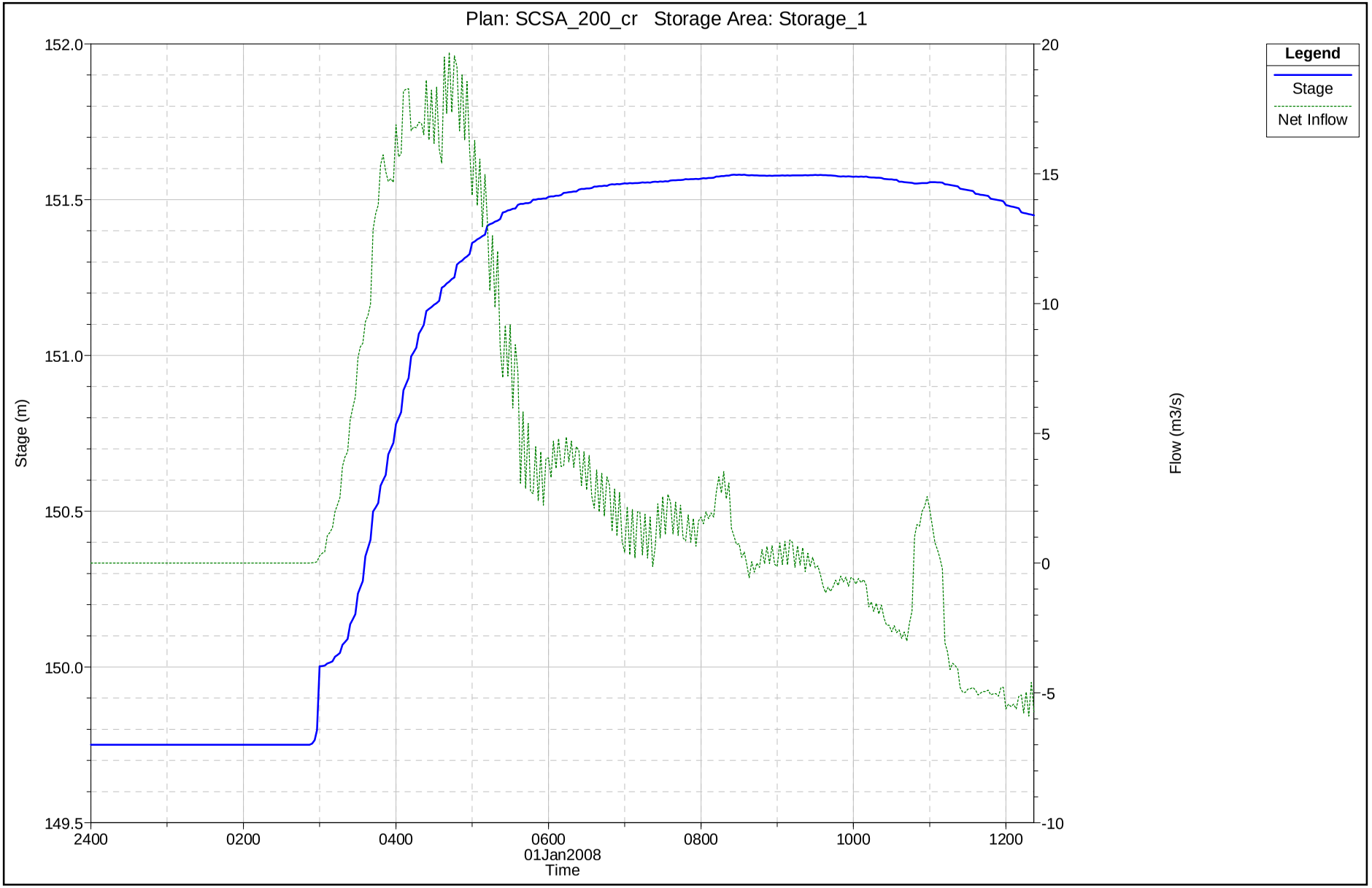

Plan: SCSA_20_cr Storage Area: Storage_Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
152.2
152.0
151.8
151.6
151.4
151.2
151.0
5
4
3
2
1
0
-1
-2
-3
2400
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
01Jan2008
Time

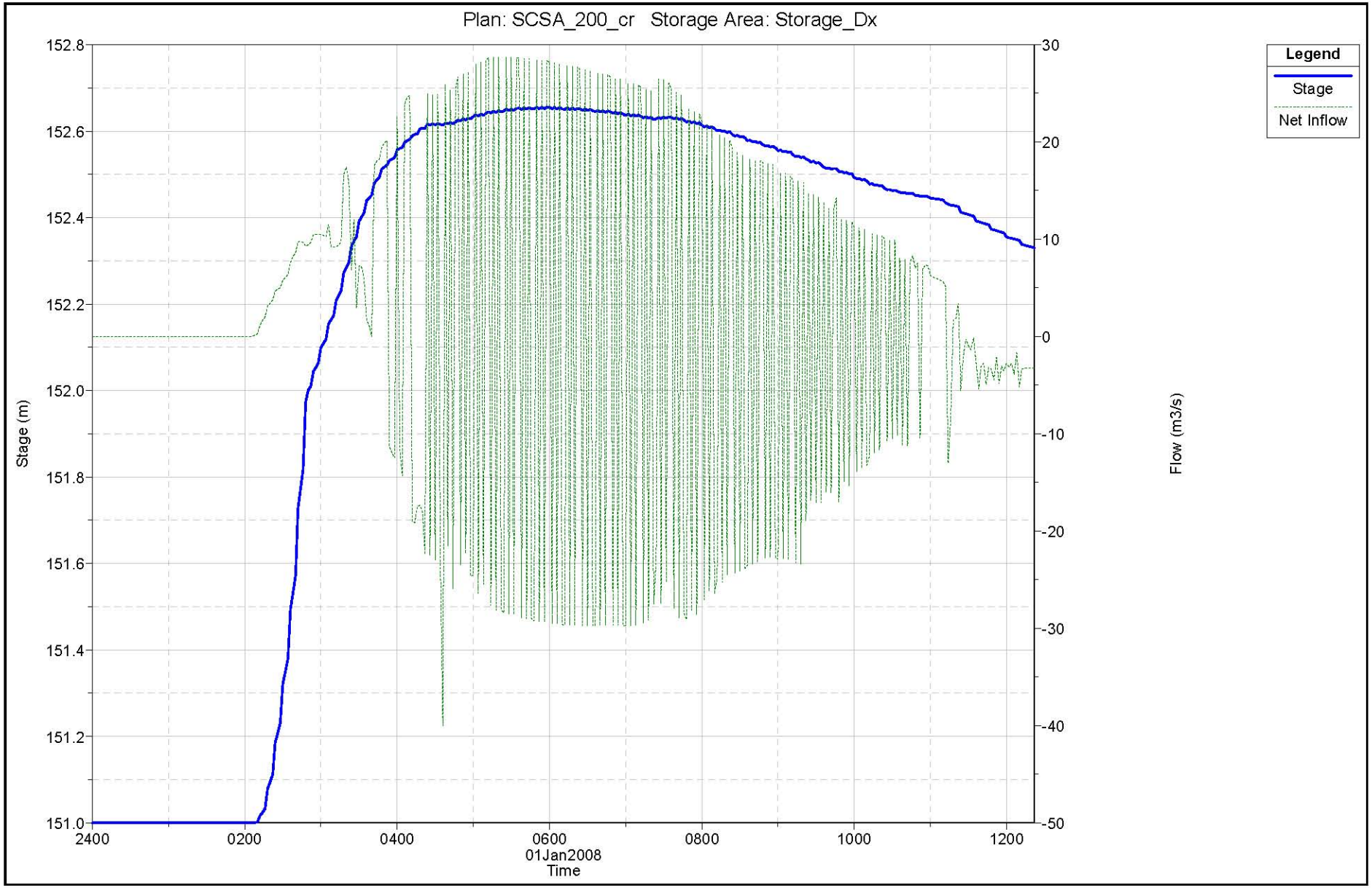

Plan: SCSA_30_cr Storage Area: Storage_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
150.5
150.4
150.3
150.2
150.1
150.0
149.9
149.8
149.7
2.5
2.0
1.5
1.0
0.5
0.0
2400
0200
0400
0600
0800
1000
1200
01Jan2008
Time


Plan: SCSA_30_cr Storage Area: Storage_Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
152.4
152.2
152.0
151.8
151.6
151.4
151.2
151.0
6
4
2
0
-2
-4
-6
2400
0200
0400
0600
01Jan2008
0800
1000
1200
Time


Plan: SCSA_100_cr Storage Area: Storage_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
151.6
151.4
151.2
151.0
150.8
150.6
150.4
150.2
150.0
149.8
20
15
10
5
0
-5
-10
2400
0200
0400
0600
0800
1000
1200
01Jan2008
Time


Plan: SCSA_100_cr Storage Area: Storage_Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
152.6
152.4
152.2
152.0
151.8
151.6
151.4
151.2
151.0
20
10
0
-10
-20
-30
2400
0200
0400
0600
01Jan2008
Time
0800
1000
1200


Plan: SCSA_200_cr Storage Area: Storage_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
152.0
151.5
151.0
150.5
150.0
149.5
20
15
10
5
0
-5
-10
2400
0200
0400
0600
0800
1000
1200
01Jan2008
Time


Plan: SCSA_200_cr Storage Area: Storage_Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
152.8
152.6
152.4
152.2
152.0
151.8
151.6
151.4
151.2
151.0
30
20
10
0
-10
-20
-30
-40
-50
2400
0200
0400
0600
0800
1000
1200
01Jan2008
Time

borro della Dogana

verifiche con Tpioggia critico per il Borro della Dogana

- moto vario

  Tr=200, 100, 30 e 20 anni

  profilo

  livelli idrici nelle sezioni di verifica

  tabella di output del software Hec-ras 4.0

  livelli e portate in ingresso alle aree di accumulo

verifiche con Tpioggia critico per il fiume Arno

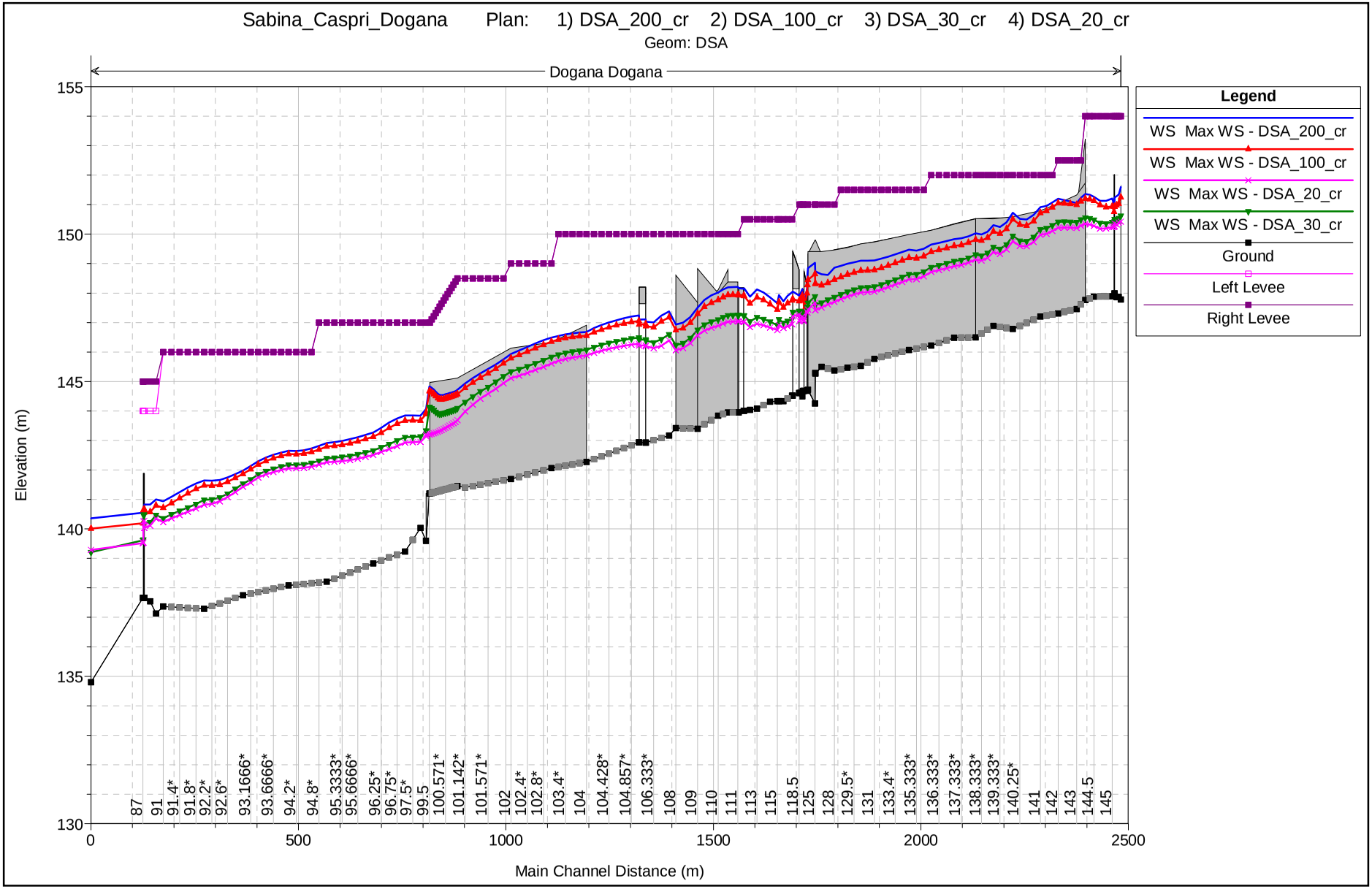
- moto permanente

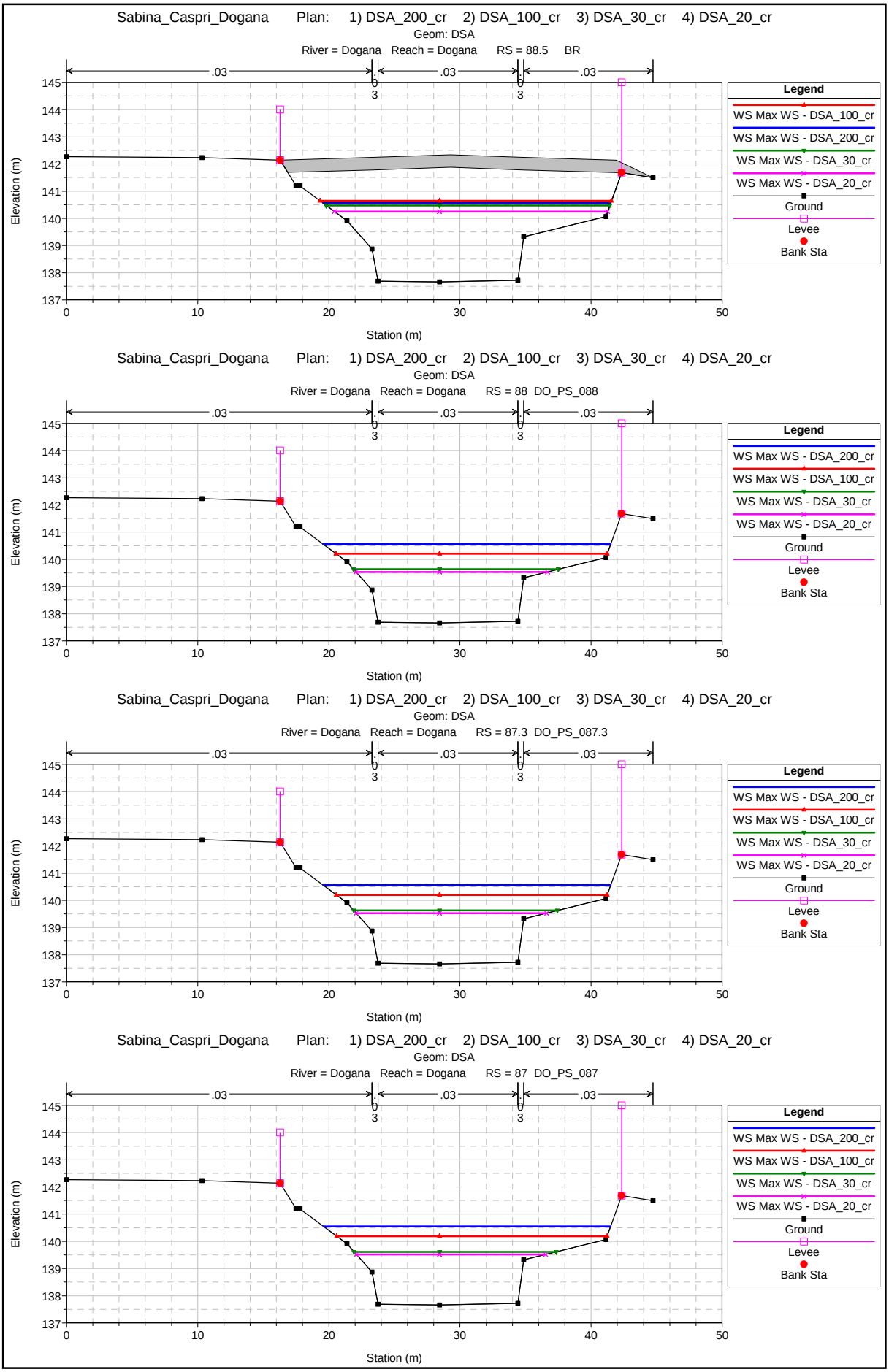
  Tr=200, 100, 30 e 20 anni

  profilo

  livelli idrici nelle sezioni di verifica

  tabella di output del software Hec-ras 4.0

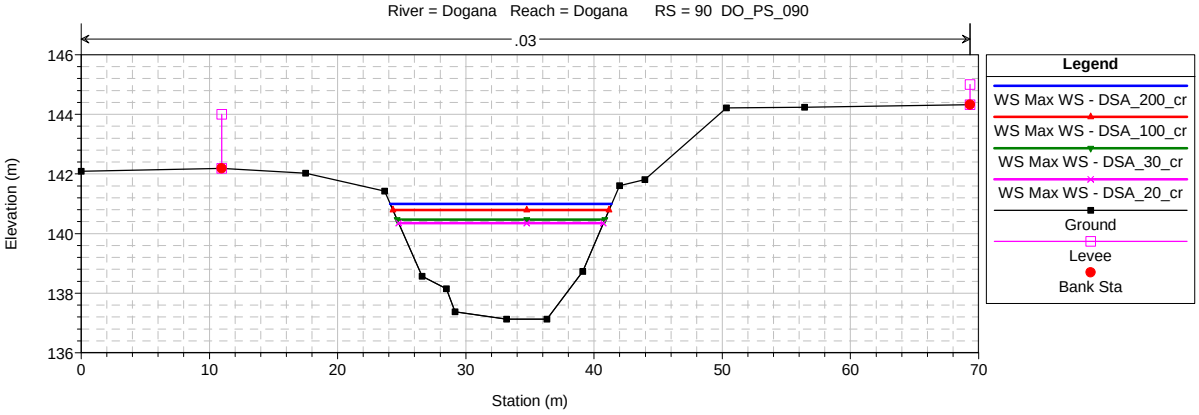

Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
Dogana Dogana
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_20_cr
WS Max WS - DSA_30_cr
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
155
150
145
140
135
130
0
500
1000
1500
2000
2500
87
91
91.4*
91.8*
92.2*
92.6*
93.1666*
93.6666*
94.2*
94.8*
95.3333*
95.6666*
96.25*
96.75*
97.5*
99.5
100.571*
101.142*
101.571*
102
102.4*
102.8*
103.4*
104
104.428*
104.857*
106.333*
108
109
110
111
113
115
118.5
125
128
129.5*
131
133.4*
135.333*
136.333*
137.333*
138.333*
139.333*
140.25*
141
142
143
144.5
145


Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 88.5 BR
.03
.03
.03
0
3
0
3
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_100_cr
WS Max WS - DSA_200_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 88 DO_PS_088
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 87.3 DO_PS_087.3
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 87 DO_PS_087
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta

Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

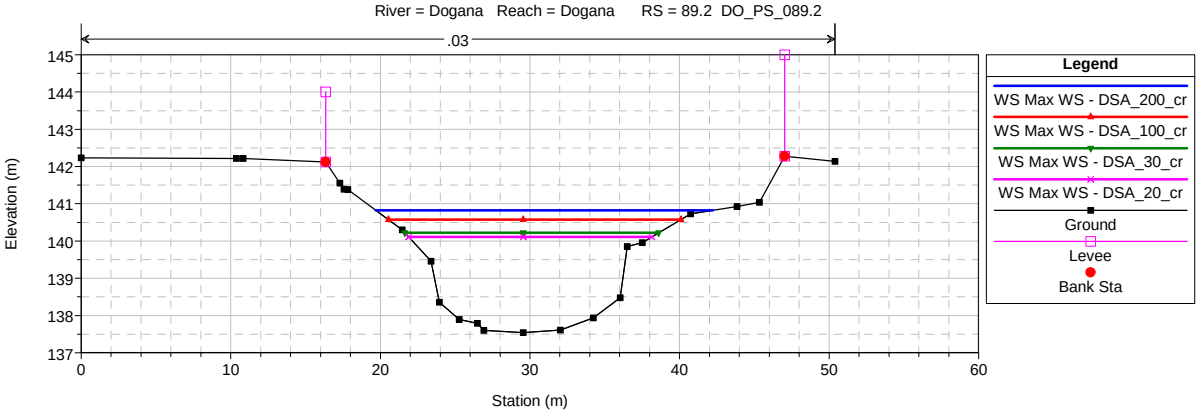
River = Dogana Reach = Dogana RS = 90 DO_PS_090



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

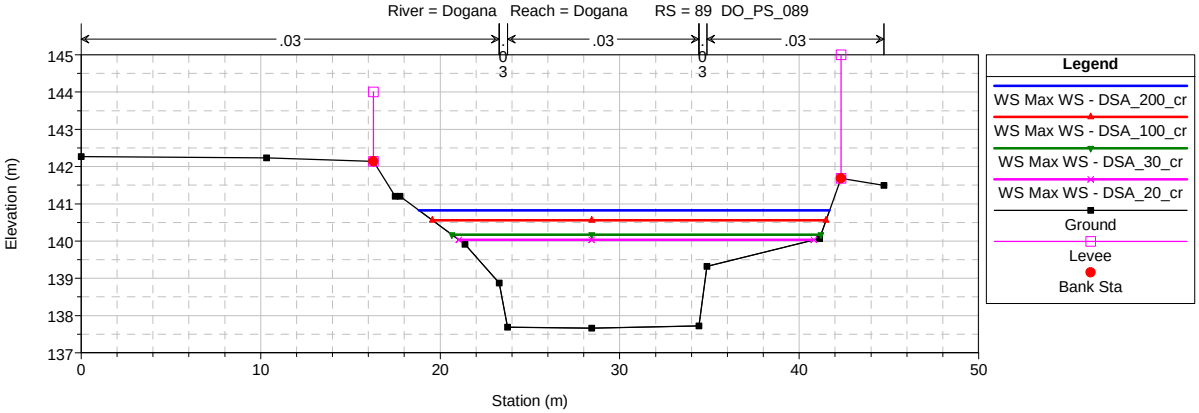
River = Dogana Reach = Dogana RS = 89.2 DO_PS_089.2



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

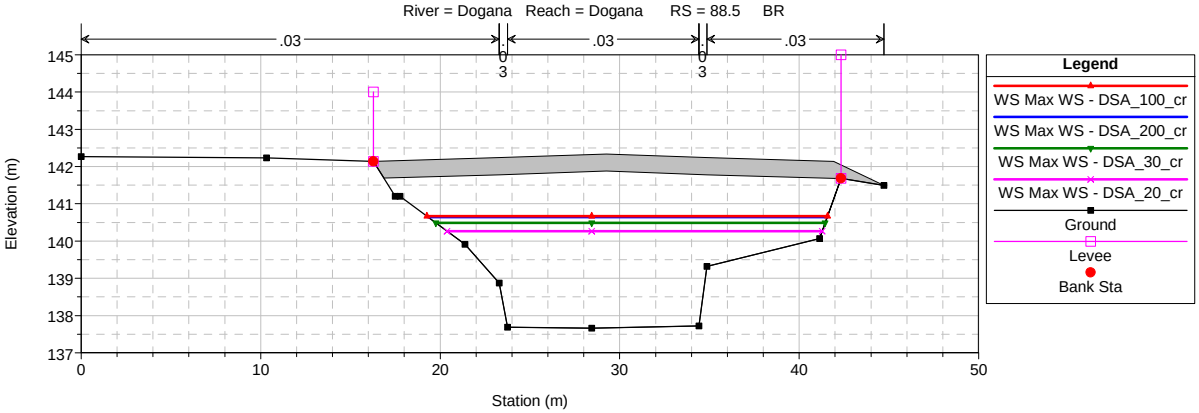
River = Dogana Reach = Dogana RS = 89 DO_PS_089



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

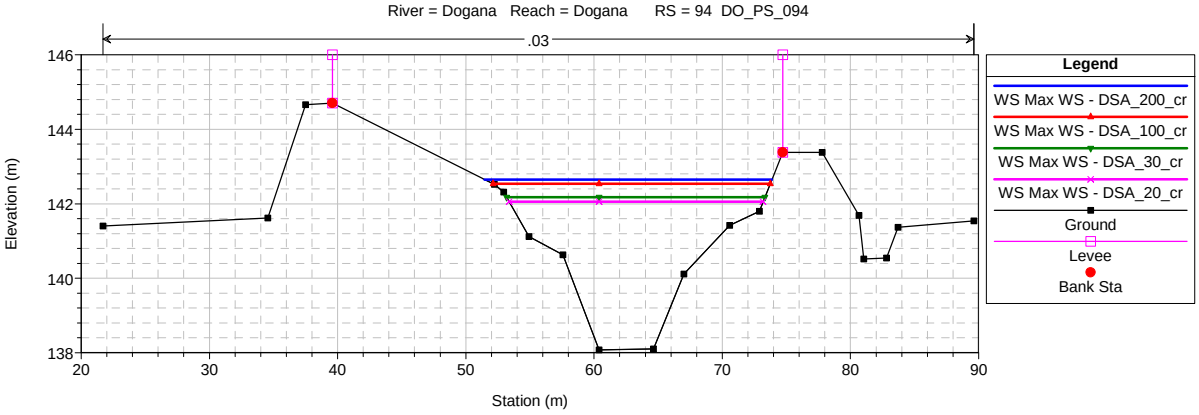
River = Dogana Reach = Dogana RS = 88.5 BR



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

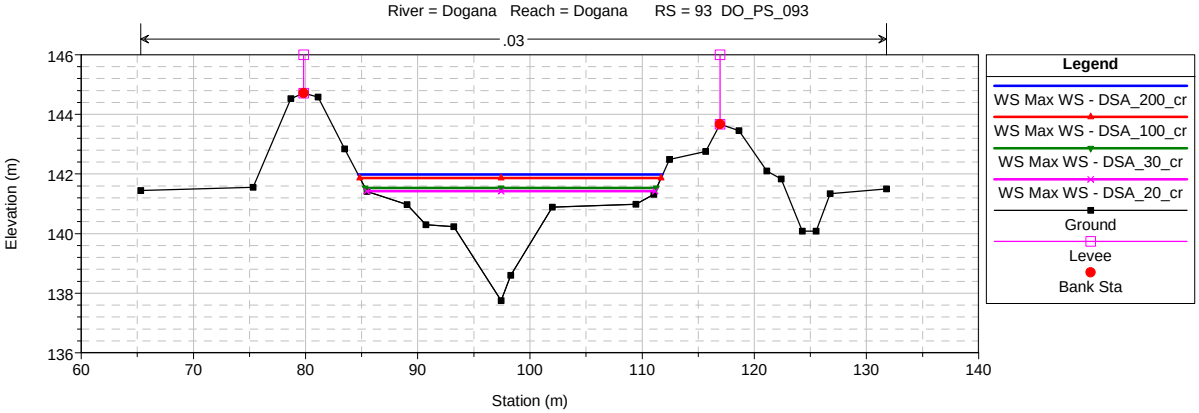
River = Dogana Reach = Dogana RS = 94 DO_PS_094



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

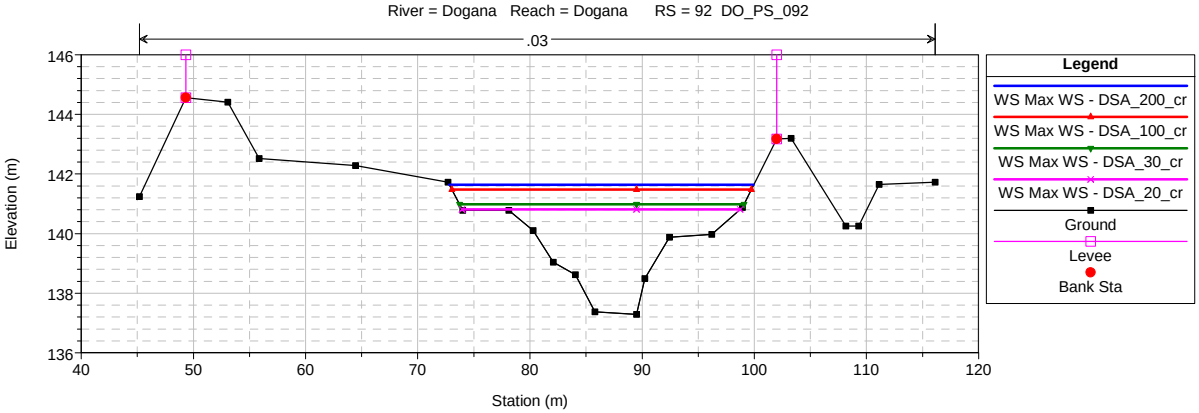
River = Dogana Reach = Dogana RS = 93 DO_PS_093



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

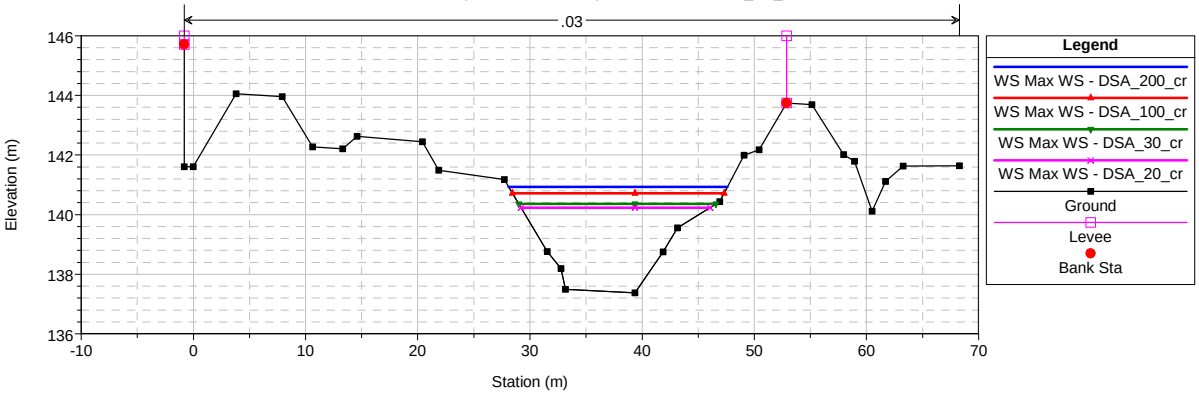
River = Dogana Reach = Dogana RS = 92 DO_PS_092



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

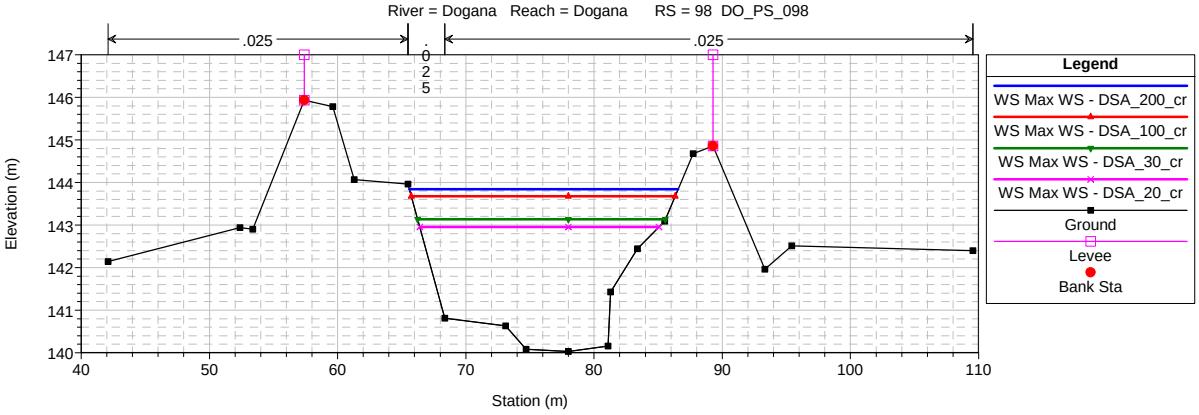
River = Dogana Reach = Dogana RS = 91 DO_PS_091



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

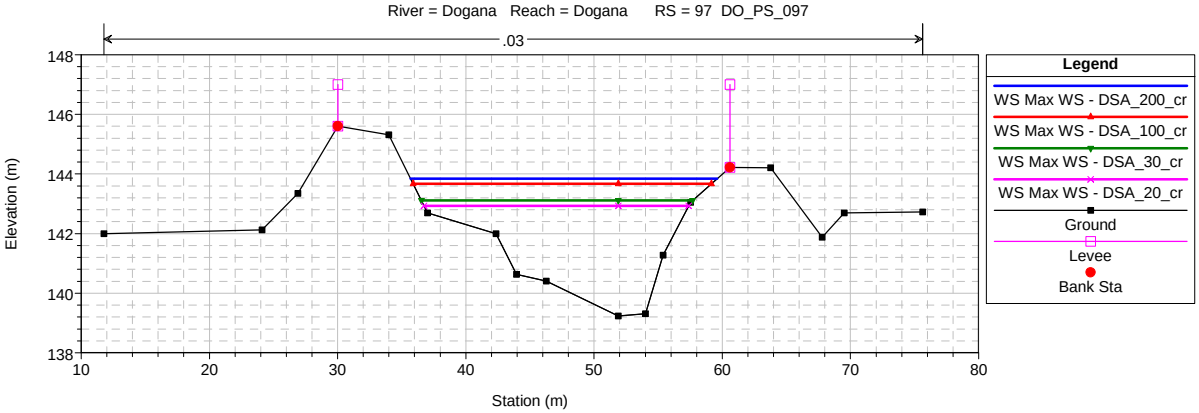
River = Dogana Reach = Dogana RS = 98 DO_PS_098



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

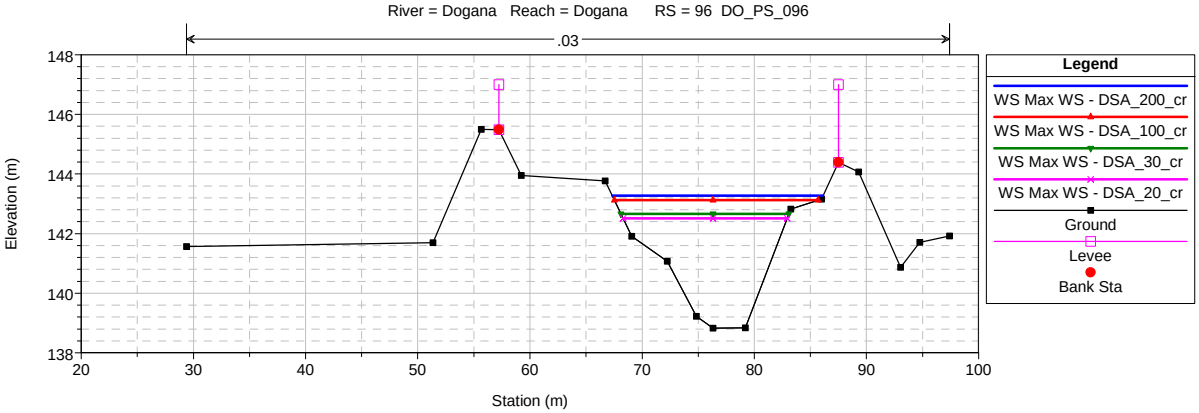
River = Dogana Reach = Dogana RS = 97 DO_PS_097



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

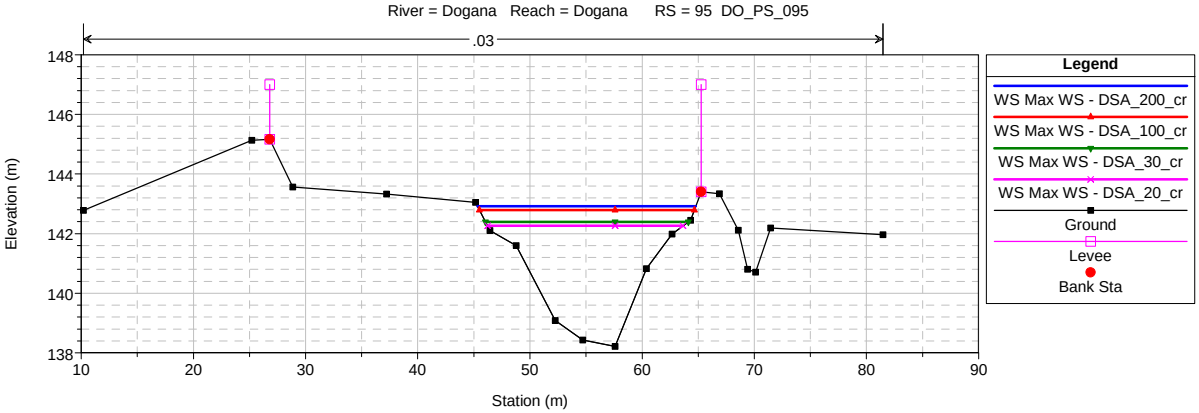
River = Dogana Reach = Dogana RS = 96 DO_PS_096



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

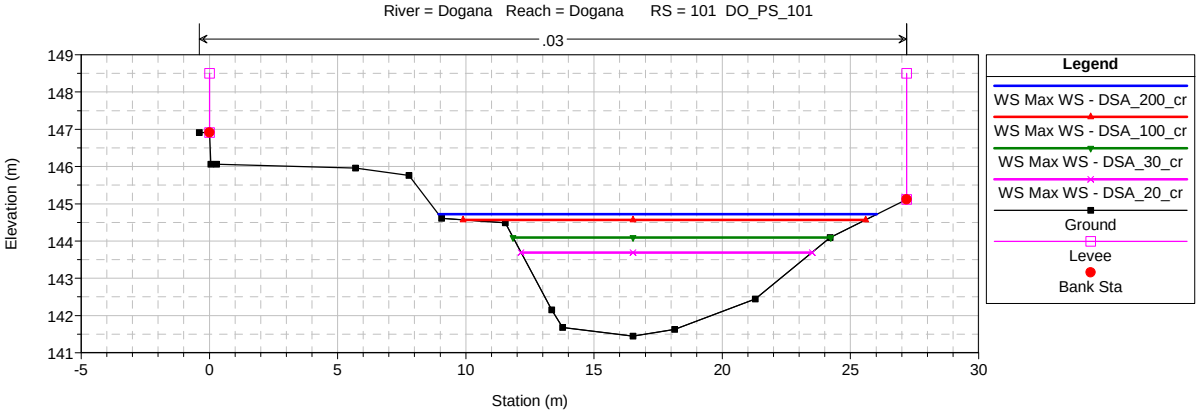
River = Dogana Reach = Dogana RS = 95 DO_PS_095



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

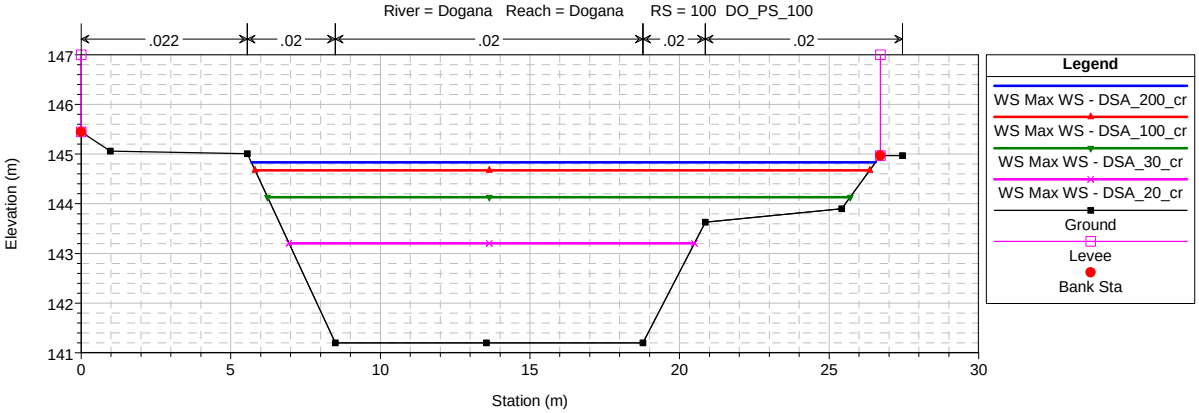
River = Dogana Reach = Dogana RS = 101 DO_PS_101



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

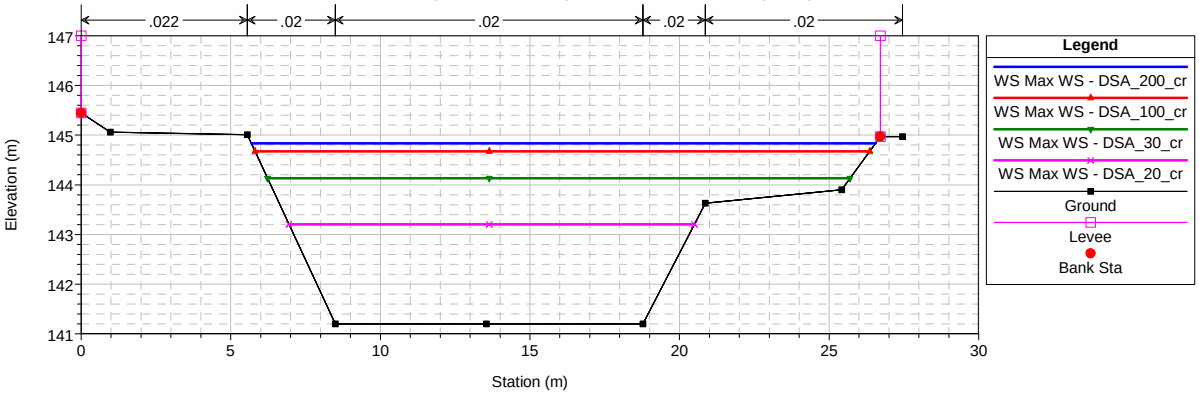
River = Dogana Reach = Dogana RS = 100 DO_PS_100



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

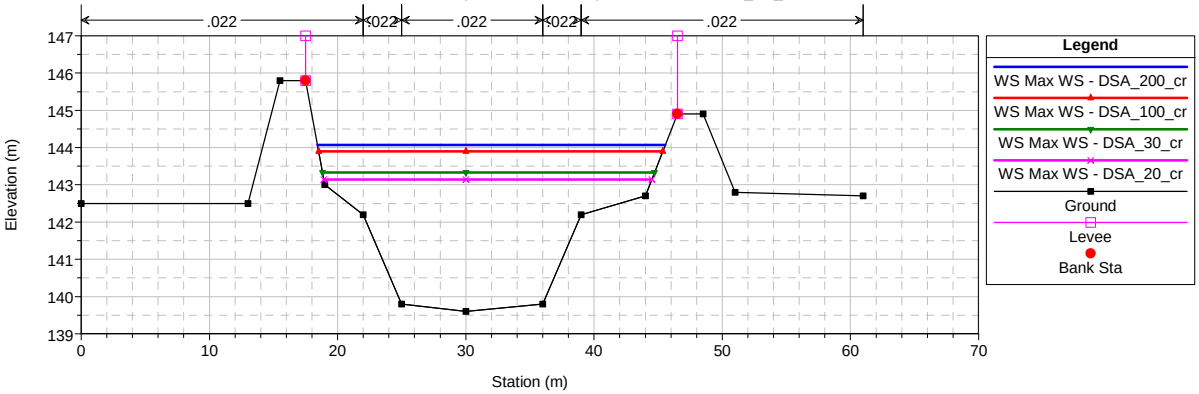
River = Dogana Reach = Dogana RS = 99.5 IS Briglia dogana

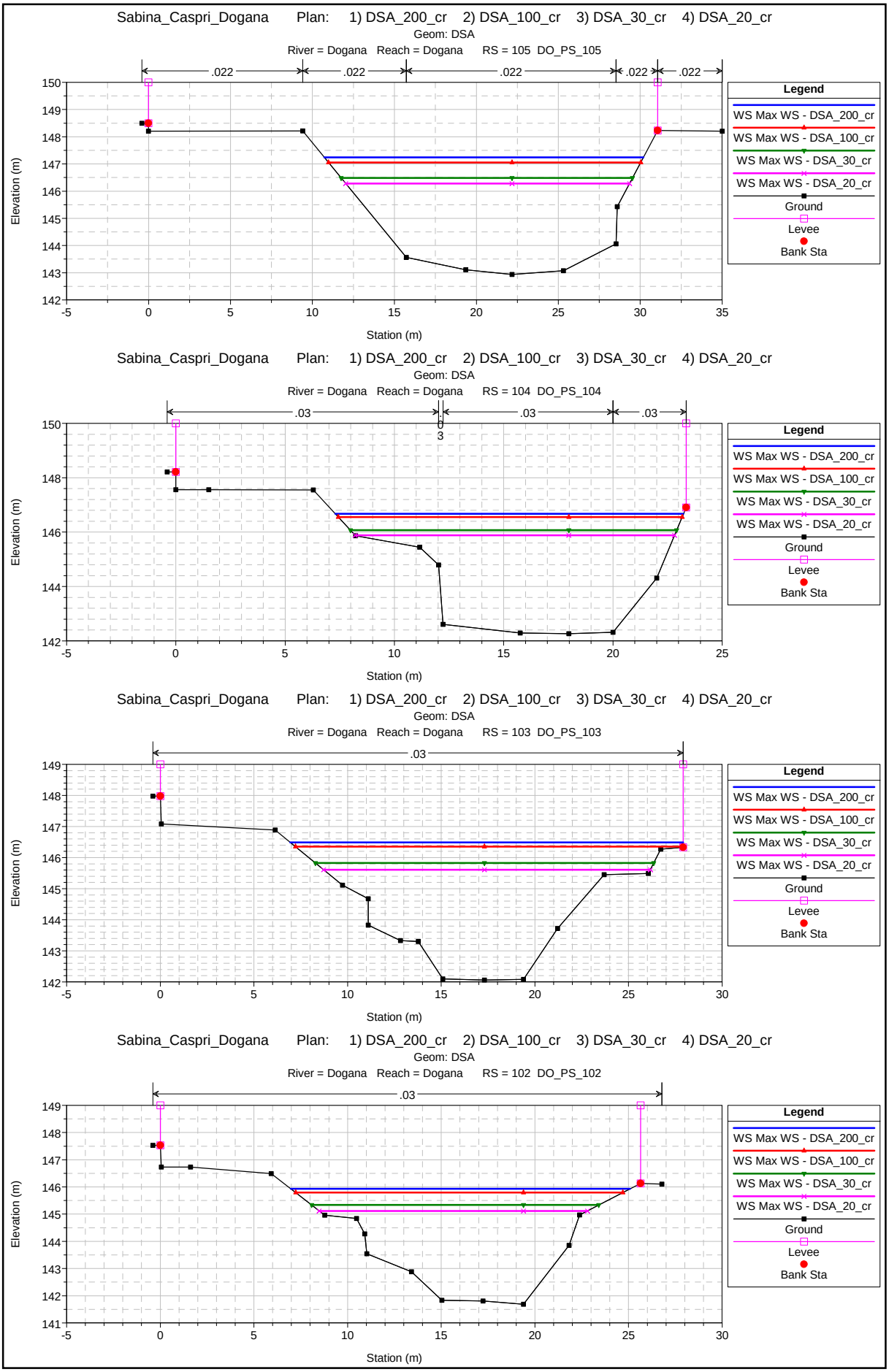


Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

River = Dogana Reach = Dogana RS = 99 DO_PS_099

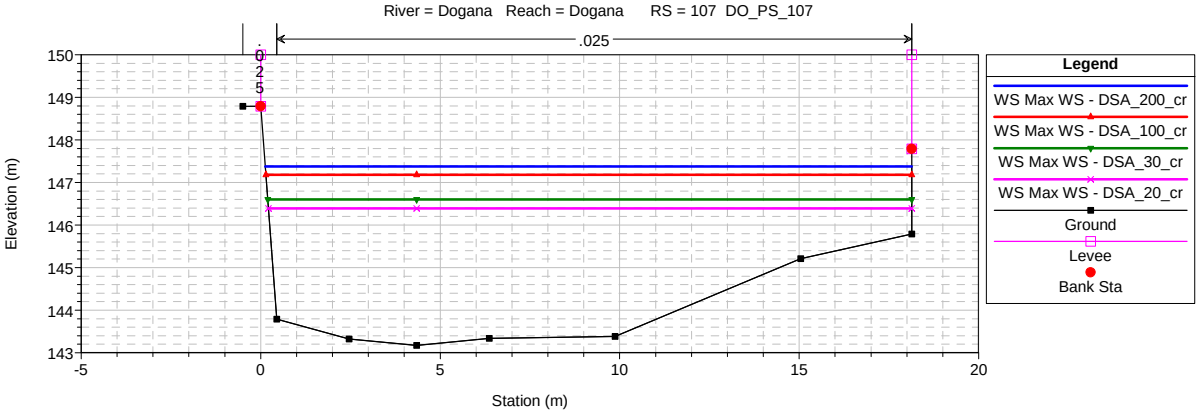



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 105 DO_PS_105
.022
.022
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 104 DO_PS_104
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 103 DO_PS_103
.03
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 102 DO_PS_102
.03
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta

Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

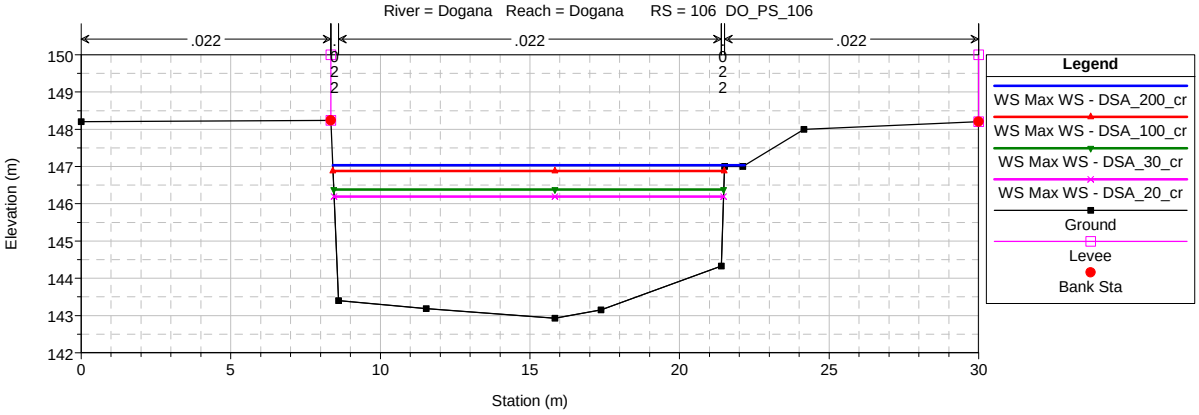
River = Dogana Reach = Dogana RS = 107 DO_PS_107



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

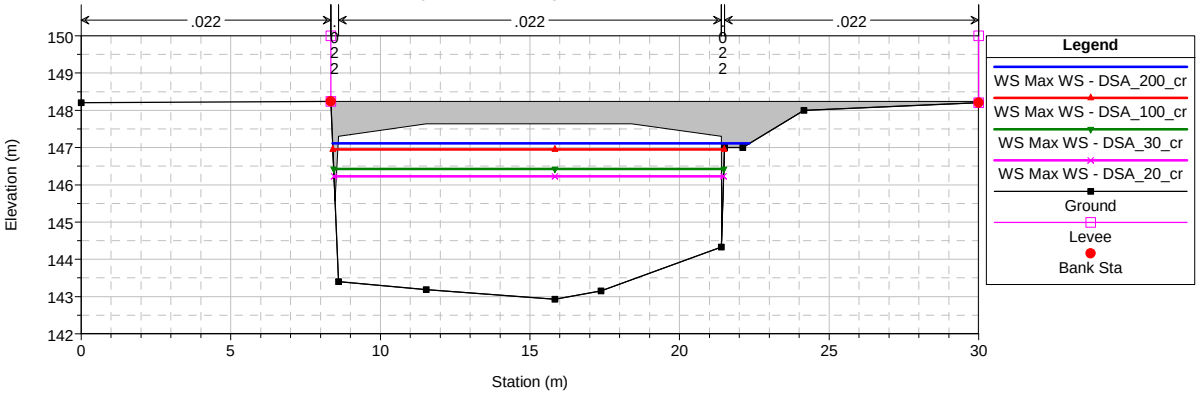
River = Dogana Reach = Dogana RS = 106 DO_PS_106



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

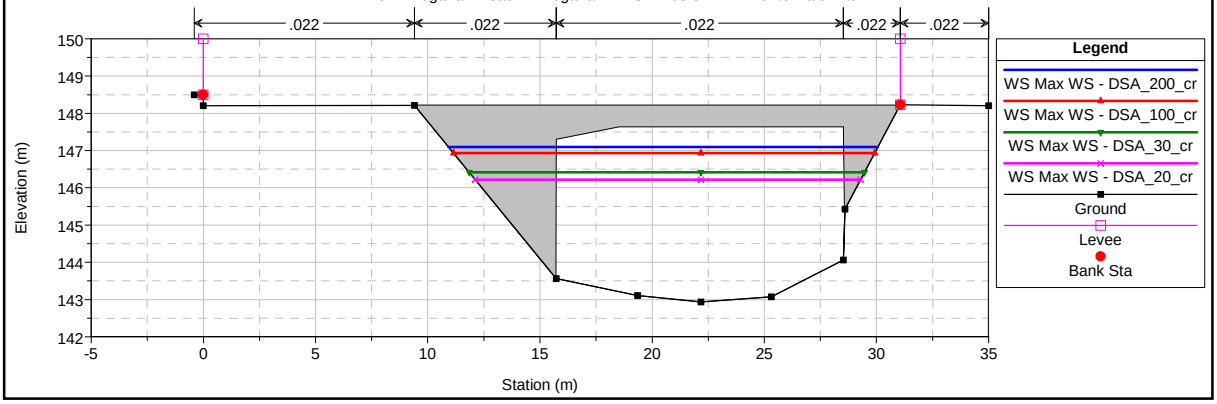
River = Dogana Reach = Dogana RS = 105.5 BR Ponte viale Diaz



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

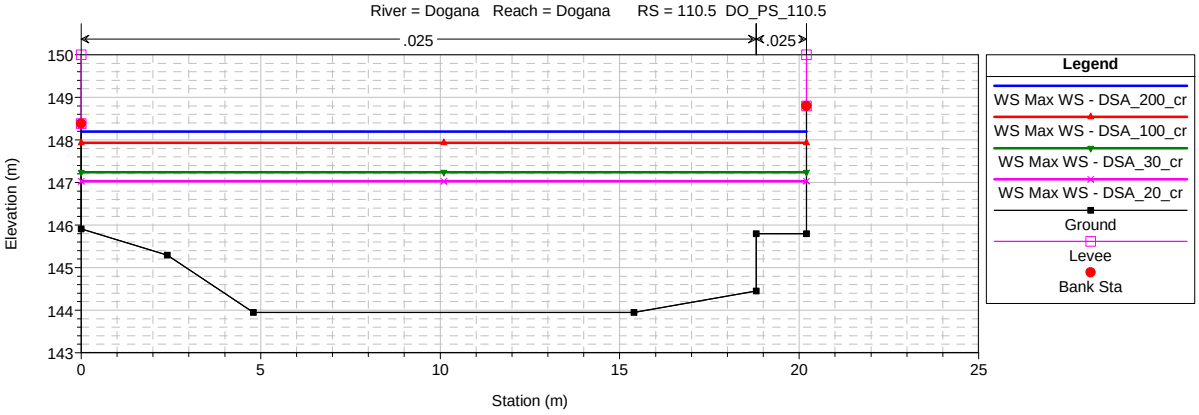
River = Dogana Reach = Dogana RS = 105.5 BR Ponte viale Diaz



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

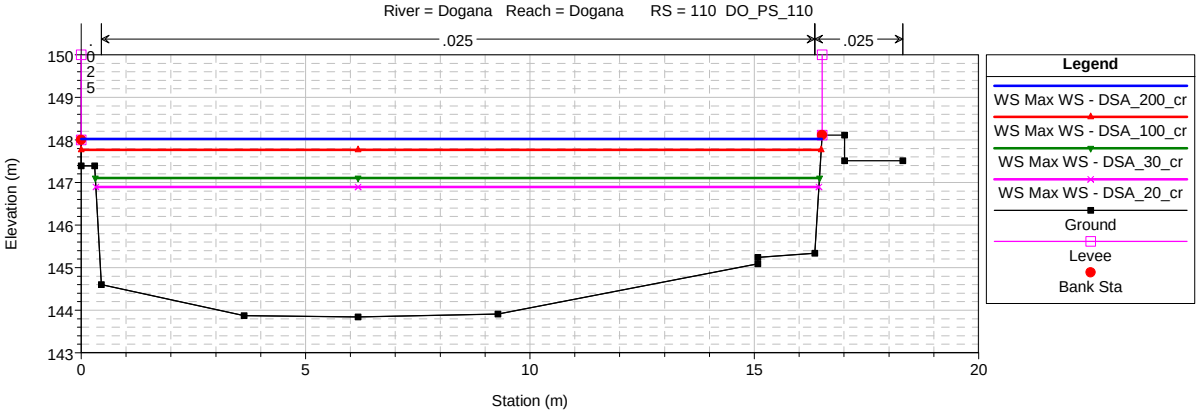
River = Dogana Reach = Dogana RS = 110.5 DO_PS_110.5



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

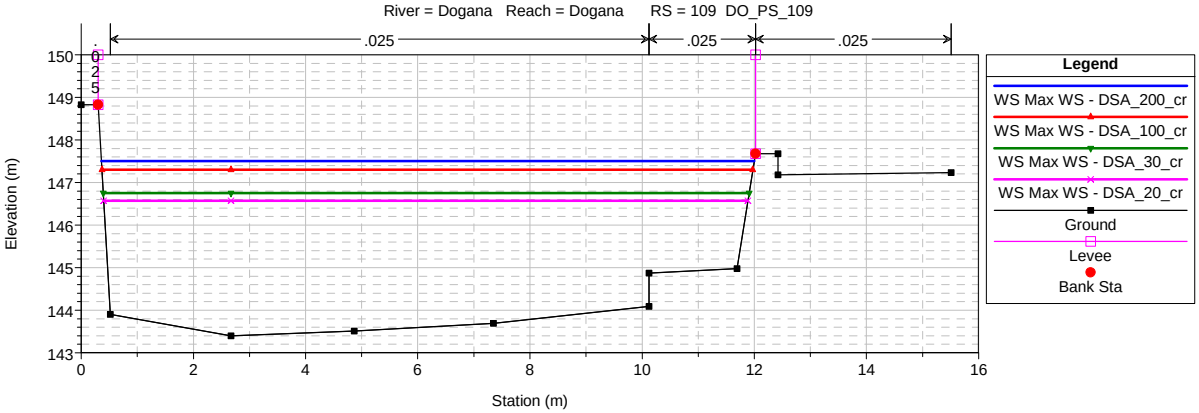
River = Dogana Reach = Dogana RS = 110 DO_PS_110



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

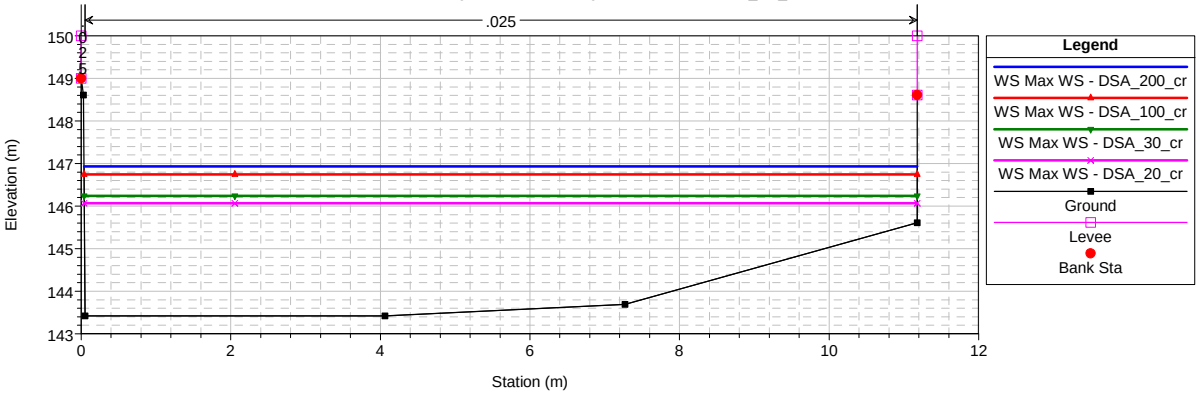
River = Dogana Reach = Dogana RS = 109 DO_PS_109



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

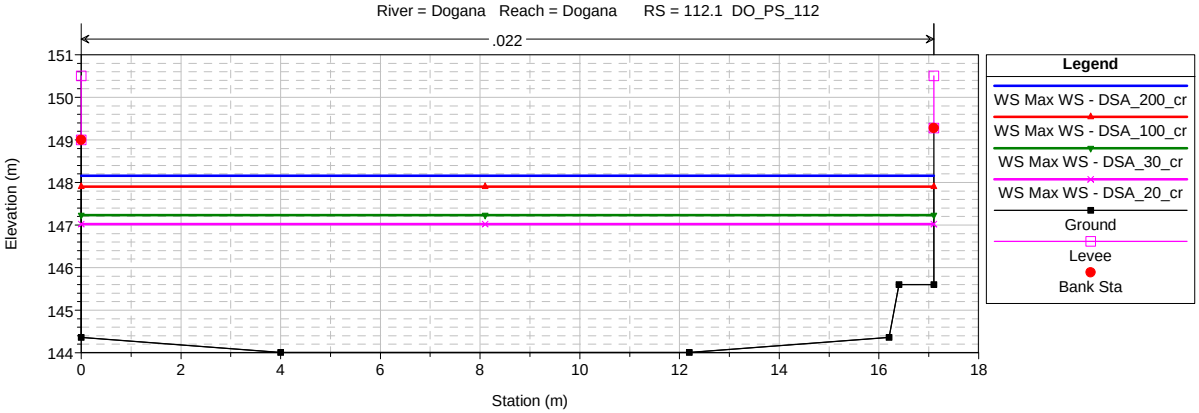
River = Dogana Reach = Dogana RS = 108 DO_PS_108



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

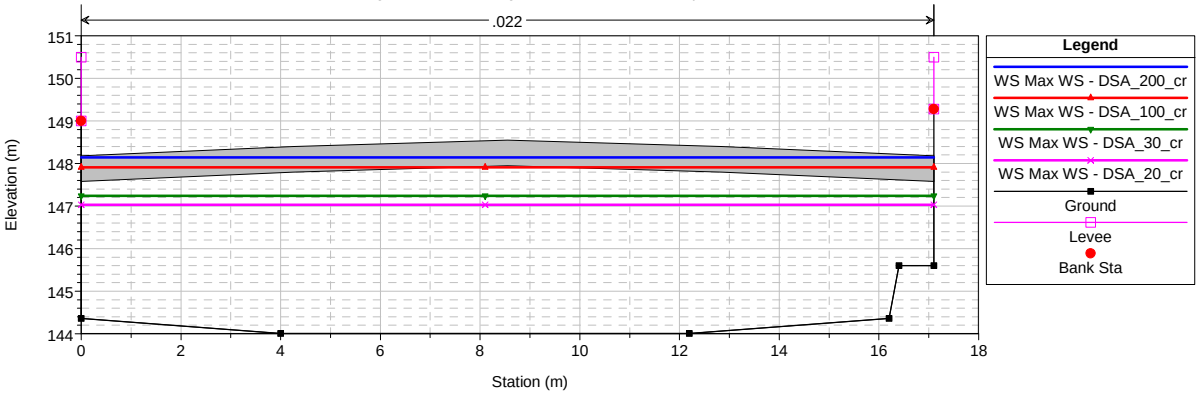
River = Dogana Reach = Dogana RS = 112.1 DO_PS_112



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

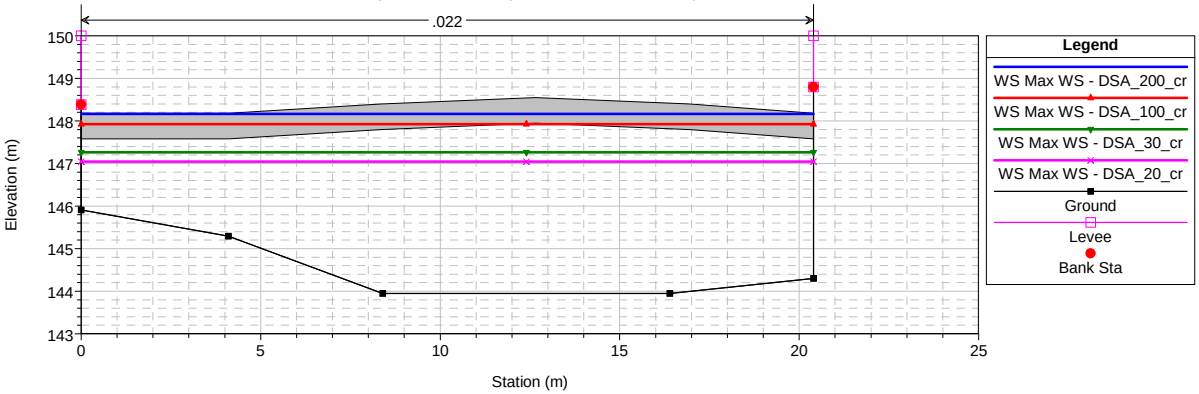
River = Dogana Reach = Dogana RS = 112 BR ponte via Marconi - via Roma



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

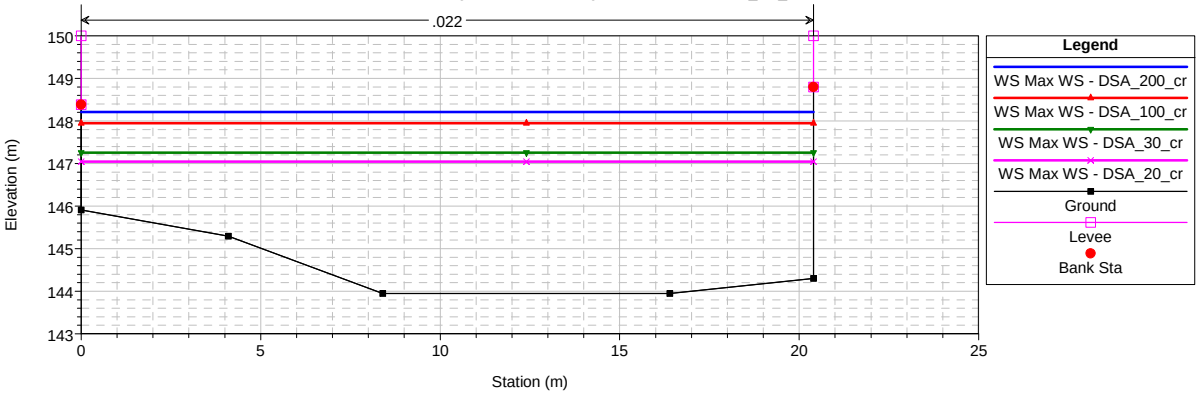
River = Dogana Reach = Dogana RS = 112 BR ponte via Marconi - via Roma



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

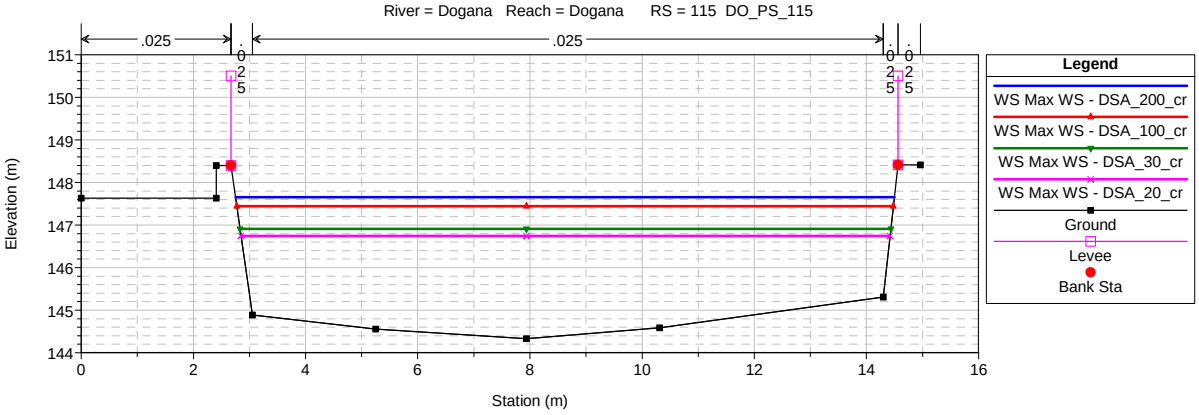
River = Dogana Reach = Dogana RS = 111 DO_PS_111



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

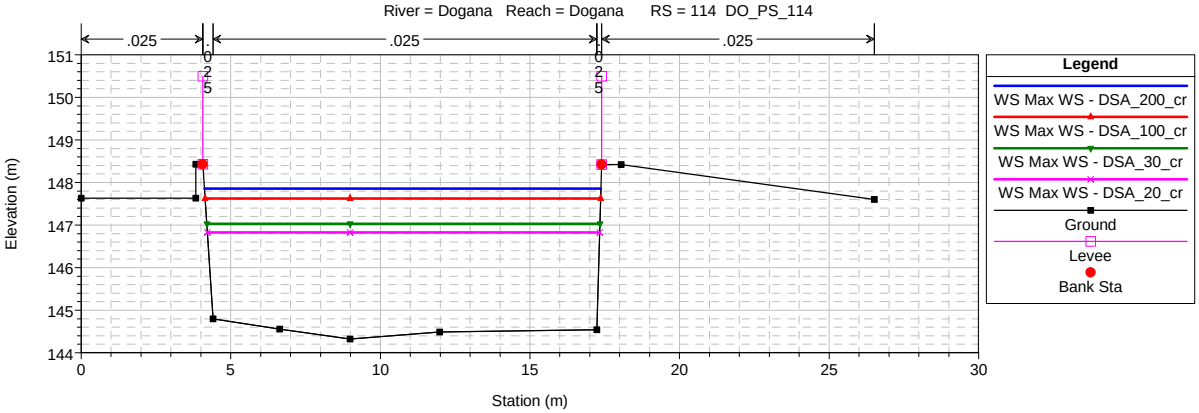
River = Dogana Reach = Dogana RS = 115 DO_PS_115



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

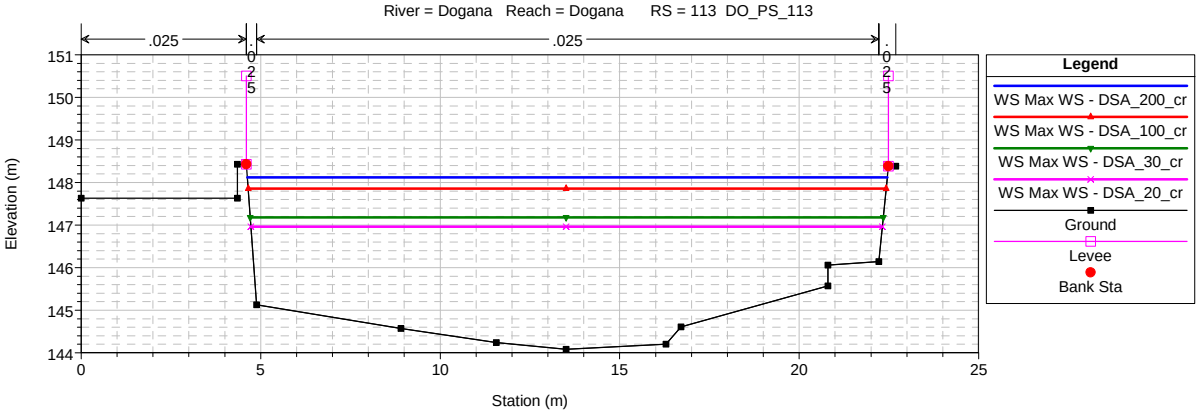
River = Dogana Reach = Dogana RS = 114 DO_PS_114



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

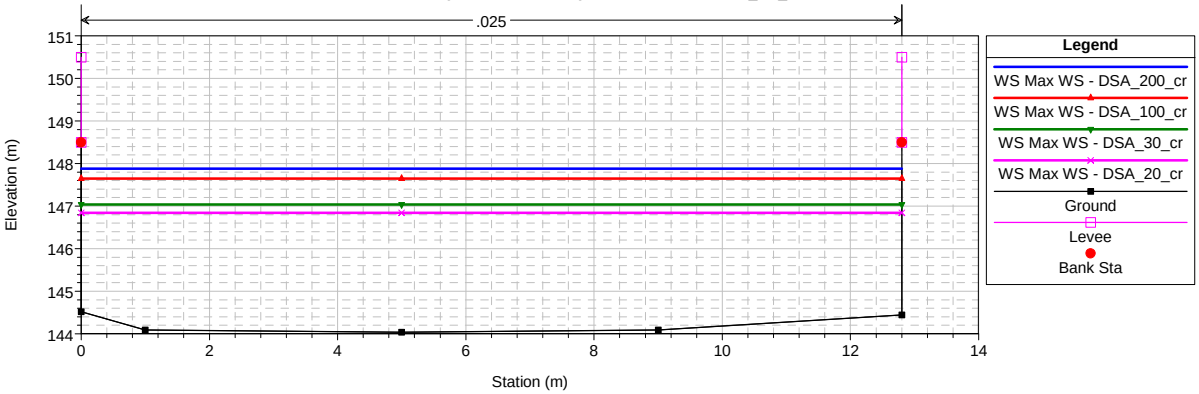
River = Dogana Reach = Dogana RS = 113 DO_PS_113



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

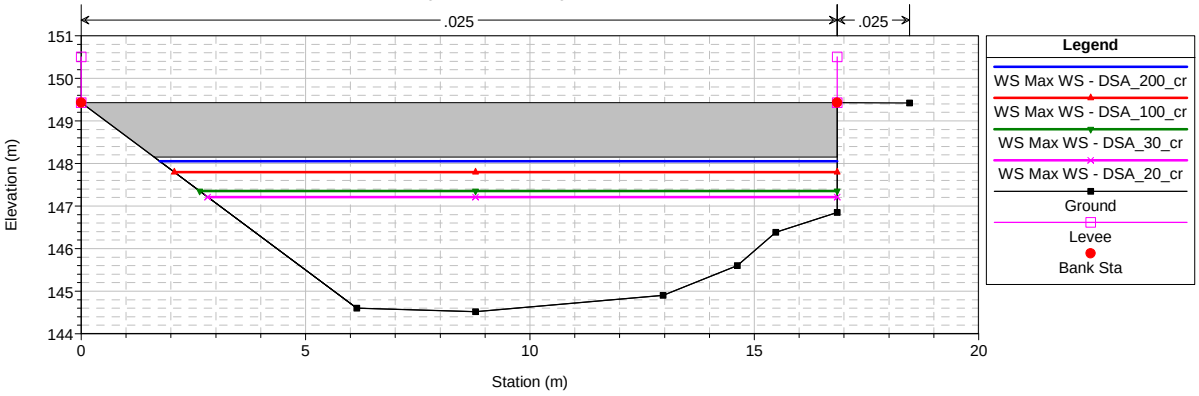
River = Dogana Reach = Dogana RS = 112.5 DO_PS_112.5



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

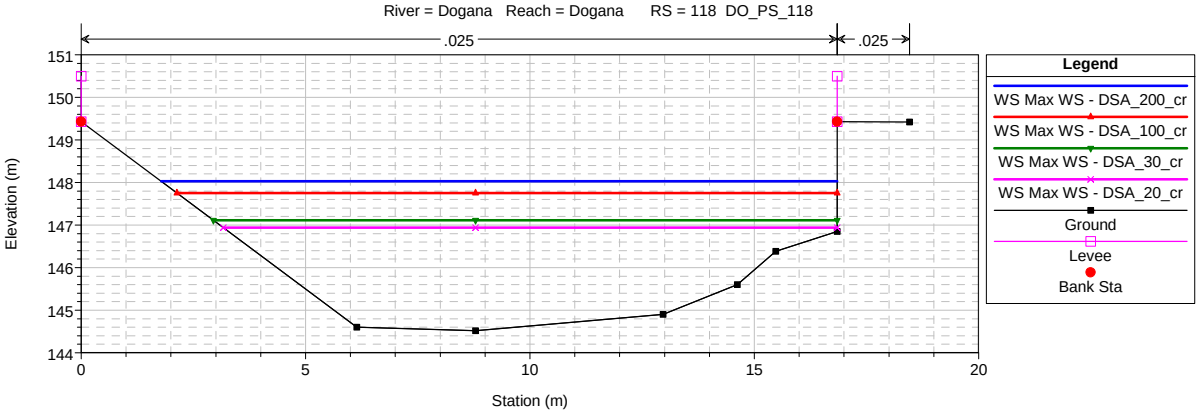
River = Dogana Reach = Dogana RS = 118.5 BR Ponte ferrovia



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

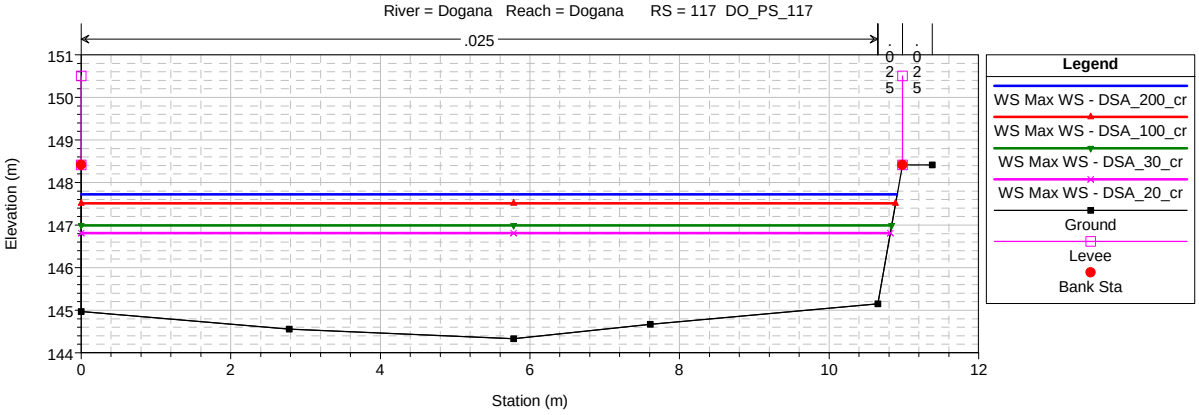
River = Dogana Reach = Dogana RS = 118 DO_PS_118



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

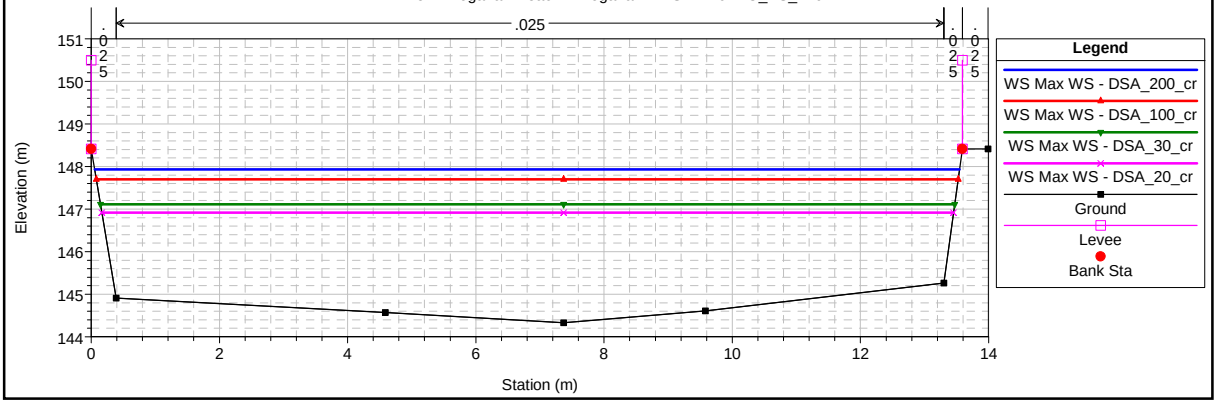
River = Dogana Reach = Dogana RS = 117 DO_PS_117



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

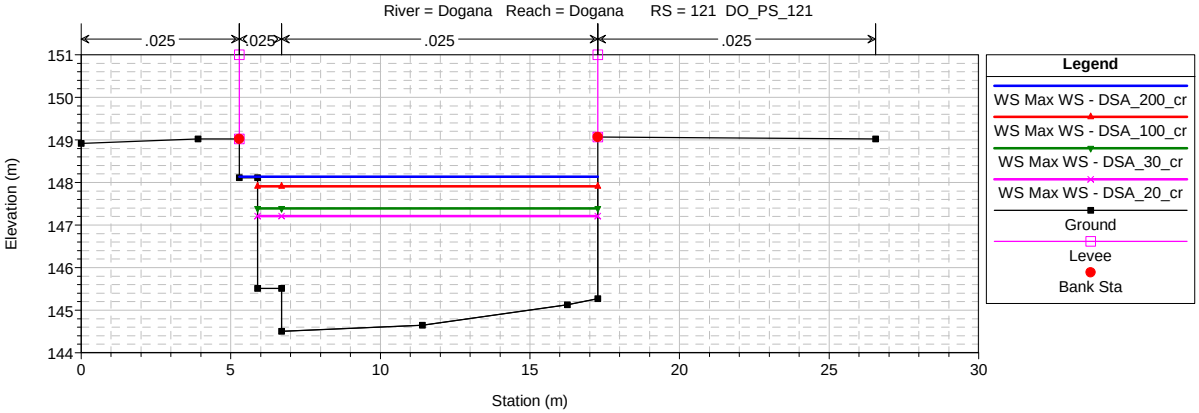
River = Dogana Reach = Dogana RS = 116 DO_PS_116



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

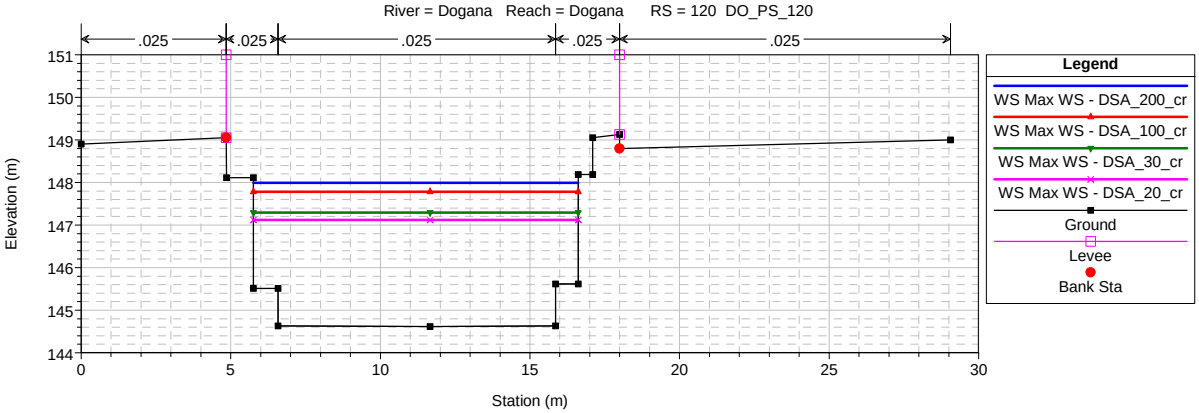
River = Dogana Reach = Dogana RS = 121 DO_PS_121



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

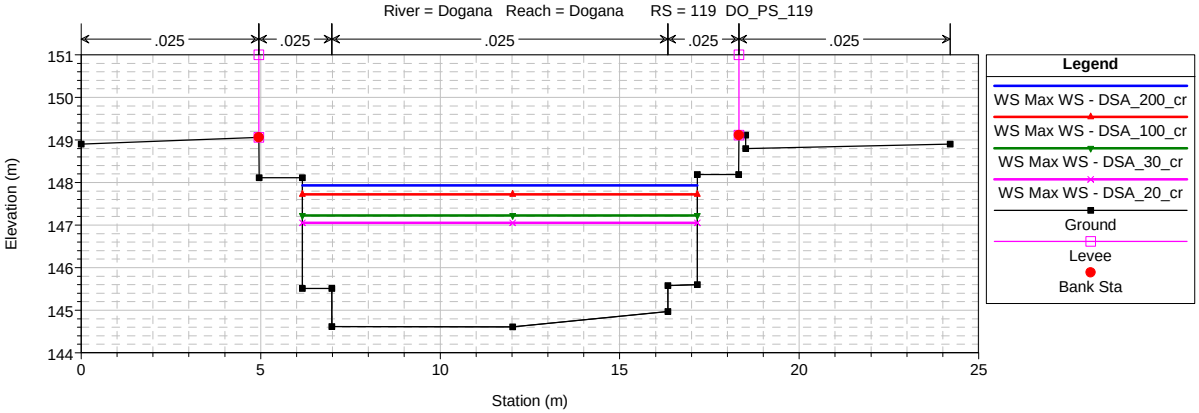
River = Dogana Reach = Dogana RS = 120 DO_PS_120



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

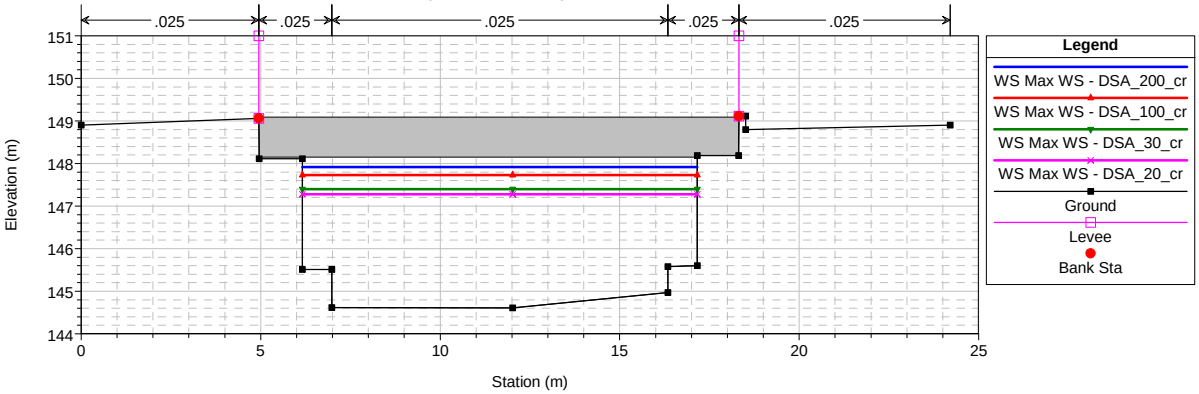
River = Dogana Reach = Dogana RS = 119 DO_PS_119



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

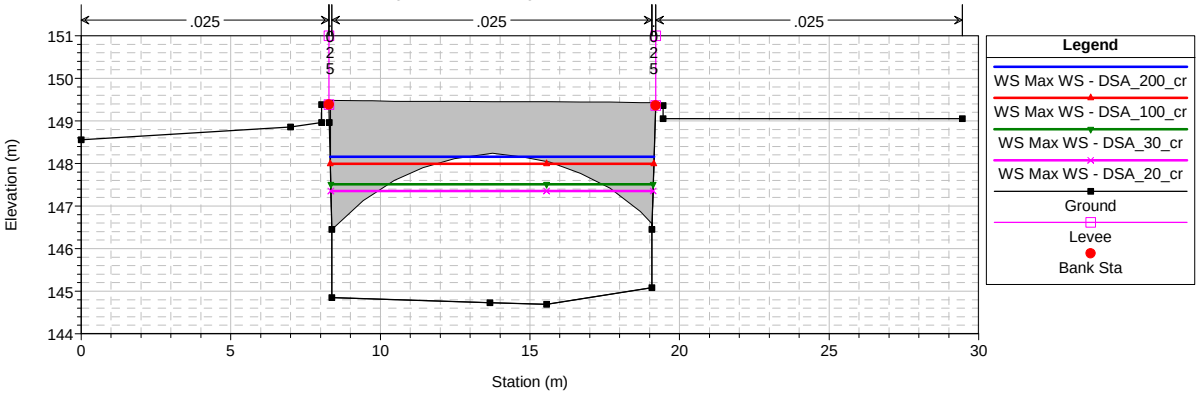
River = Dogana Reach = Dogana RS = 118.5 BR Ponte ferrovia



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

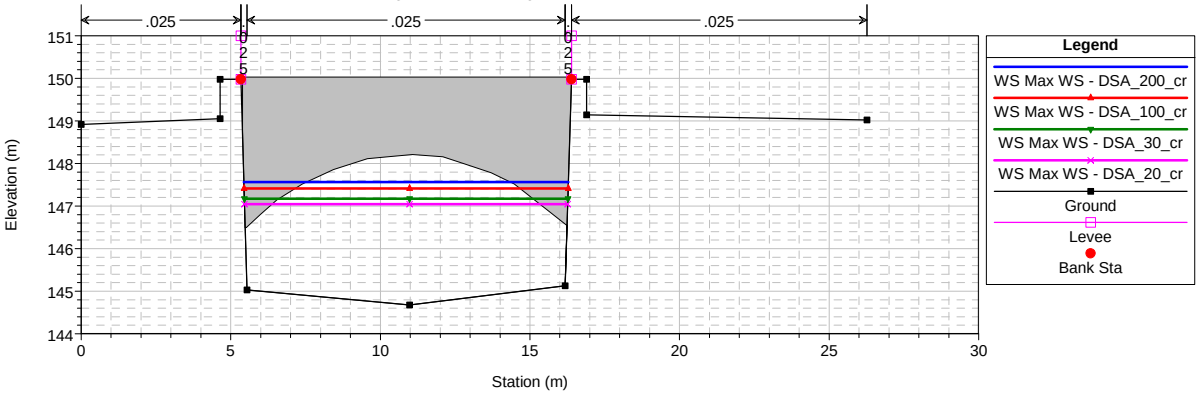
River = Dogana Reach = Dogana RS = 123 BR Ponte via delle Ginestre



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

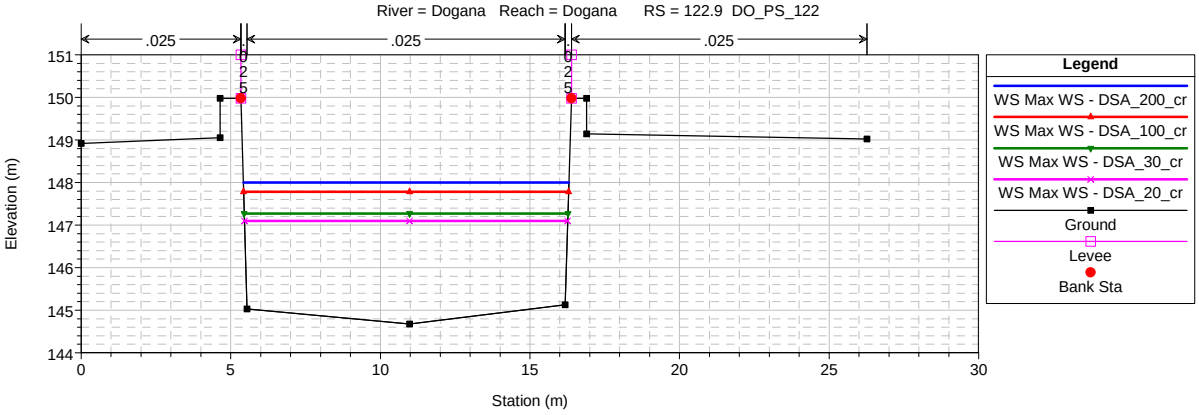
River = Dogana Reach = Dogana RS = 123 BR Ponte via delle Ginestre



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

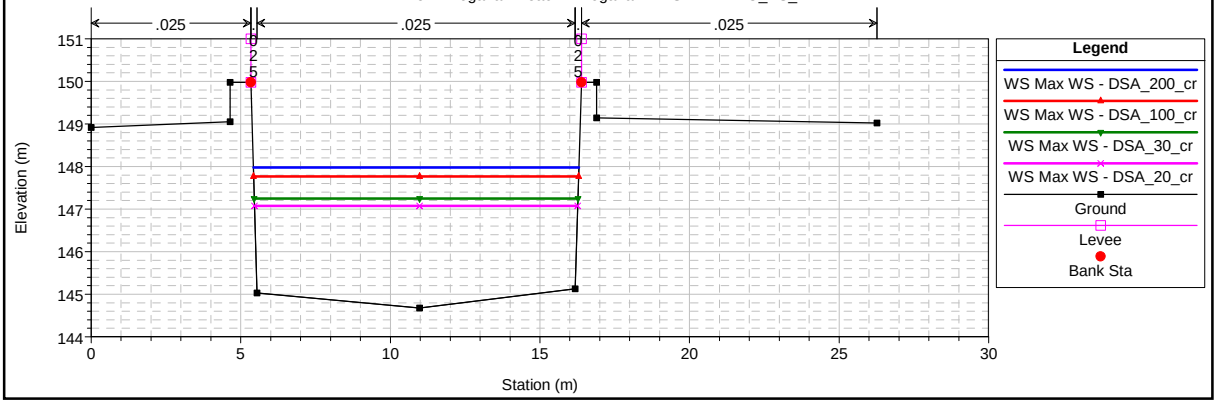
River = Dogana Reach = Dogana RS = 122.9 DO_PS_122

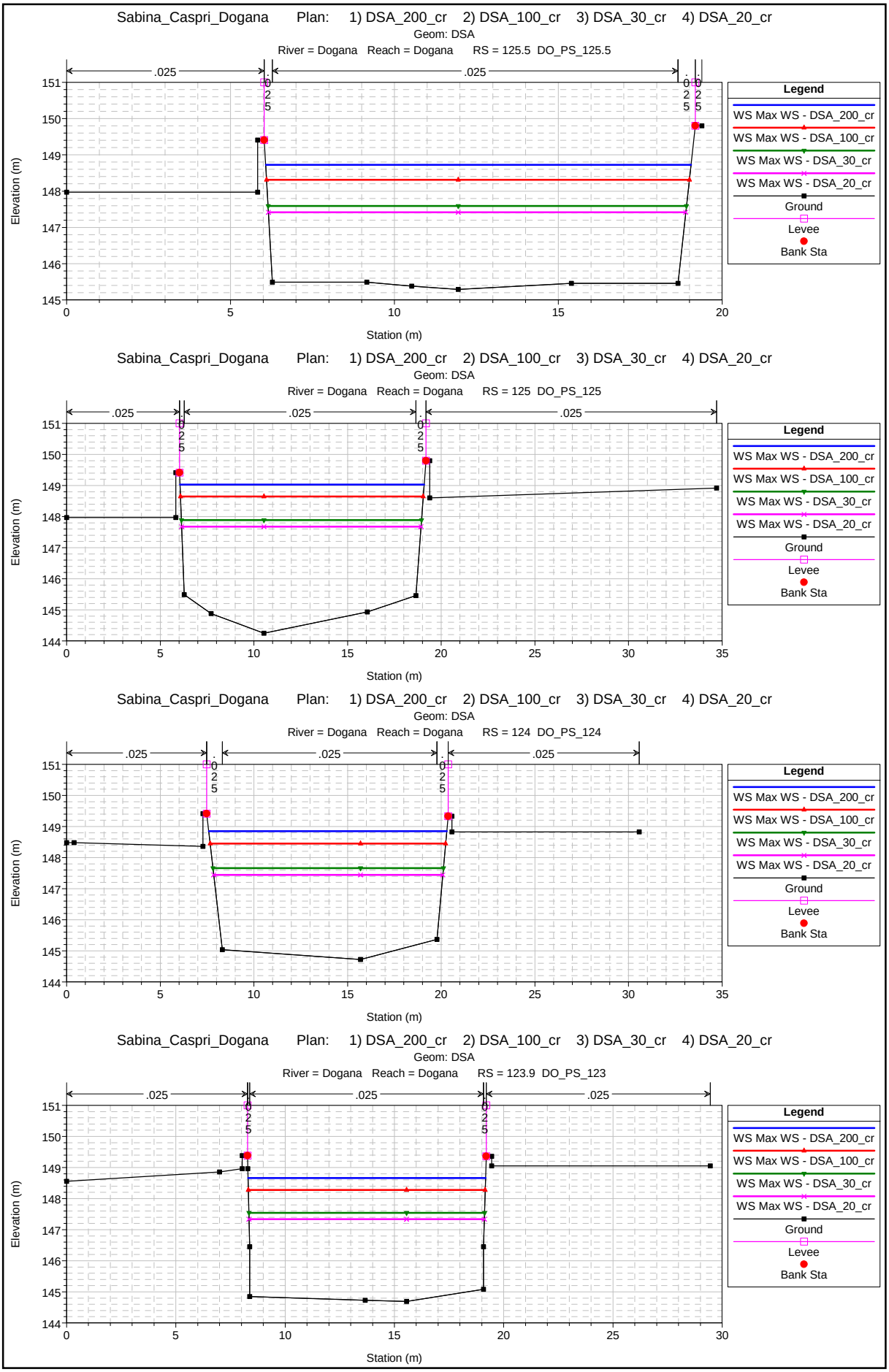


Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

River = Dogana Reach = Dogana RS = 122 DO_PS_122

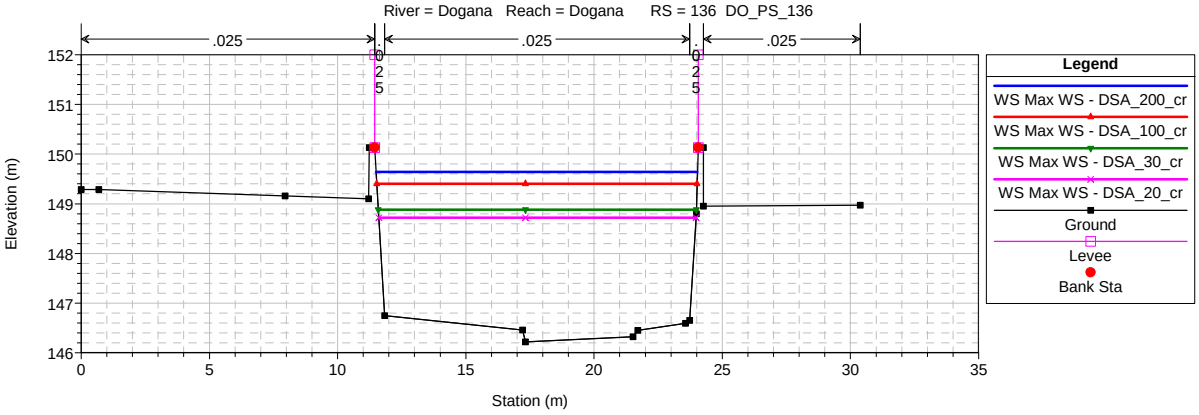



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 125.5 DO_PS_125.5
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 125 DO_PS_125
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 124 DO_PS_124
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 123.9 DO_PS_123
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta

Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

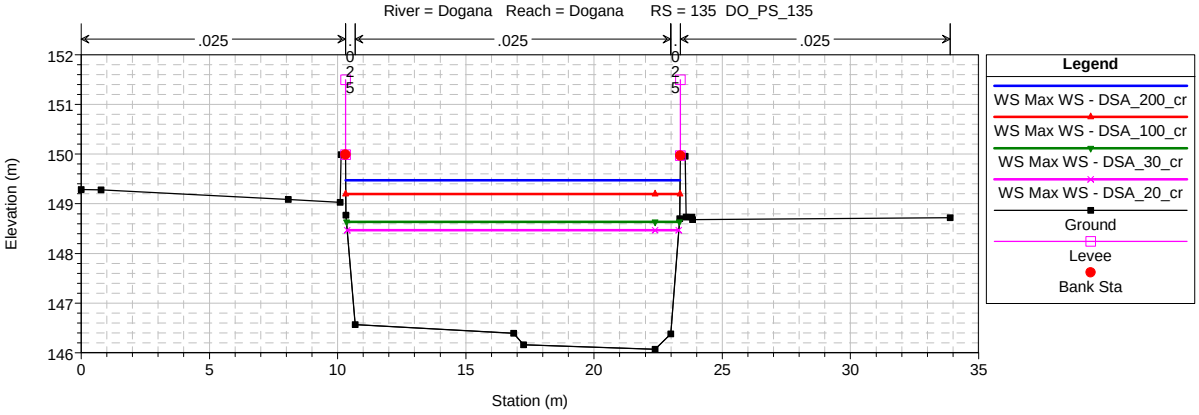
River = Dogana Reach = Dogana RS = 136 DO_PS_136



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

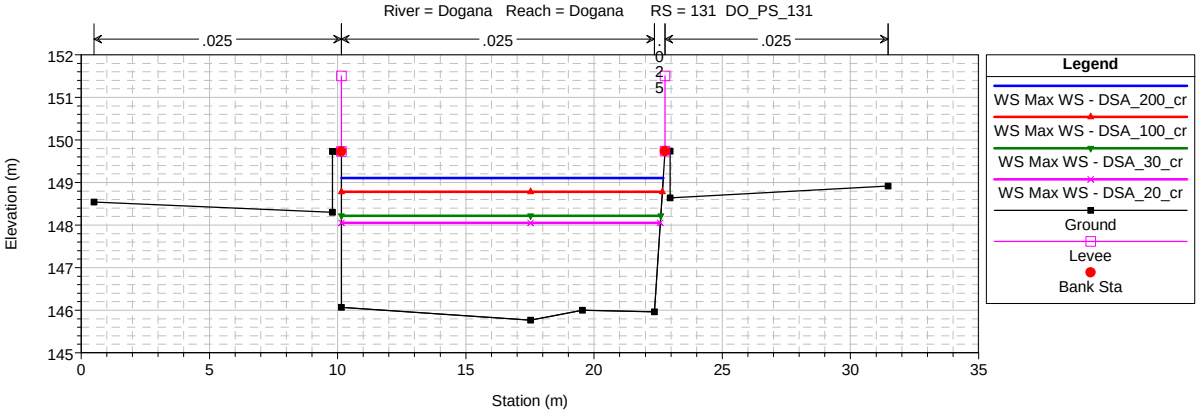
River = Dogana Reach = Dogana RS = 135 DO_PS_135



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

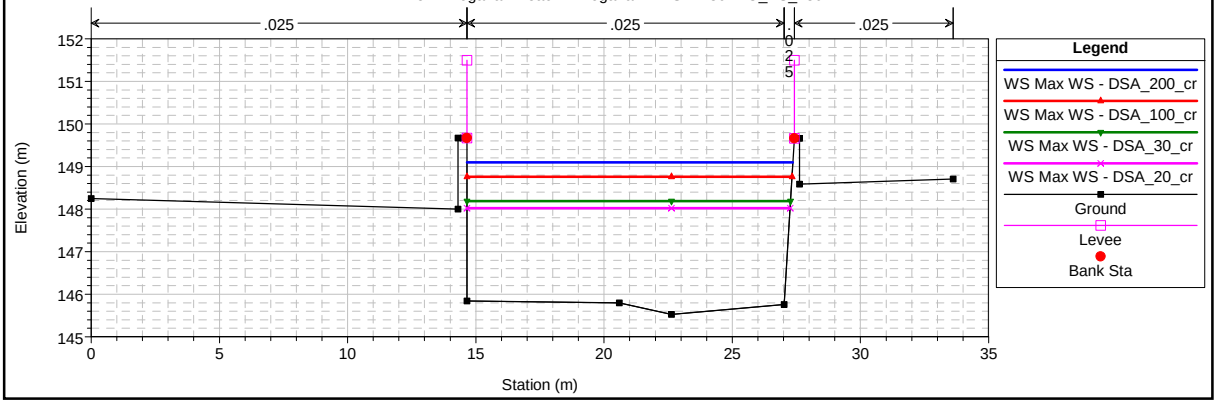
River = Dogana Reach = Dogana RS = 131 DO_PS_131



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

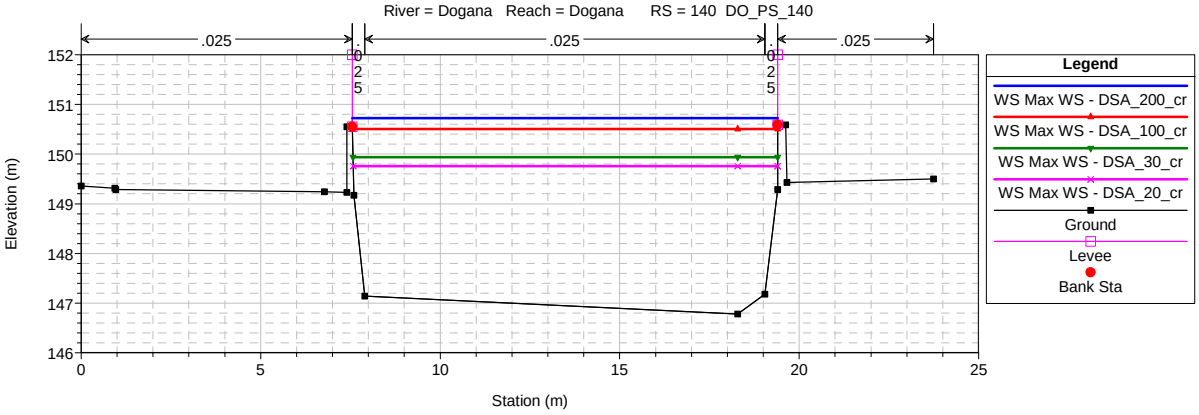
River = Dogana Reach = Dogana RS = 130 DO_PS_130



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

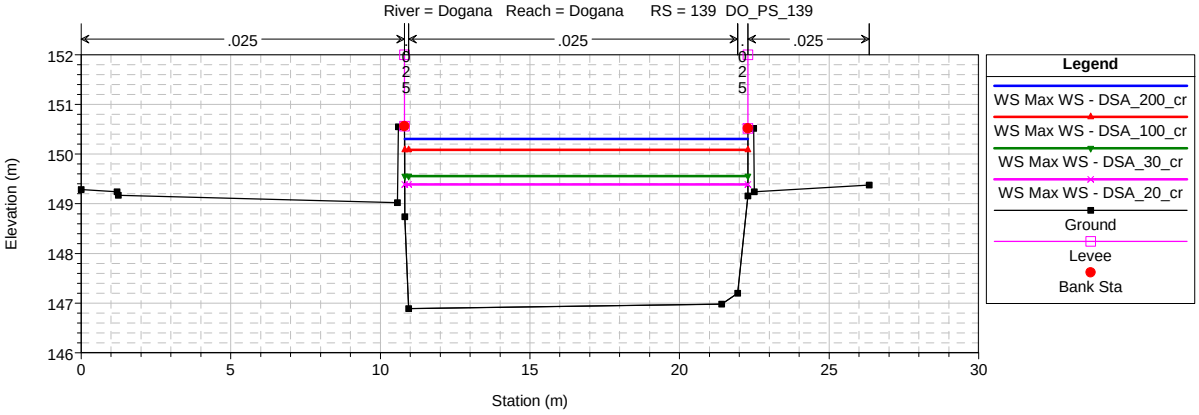
River = Dogana Reach = Dogana RS = 140 DO_PS_140



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

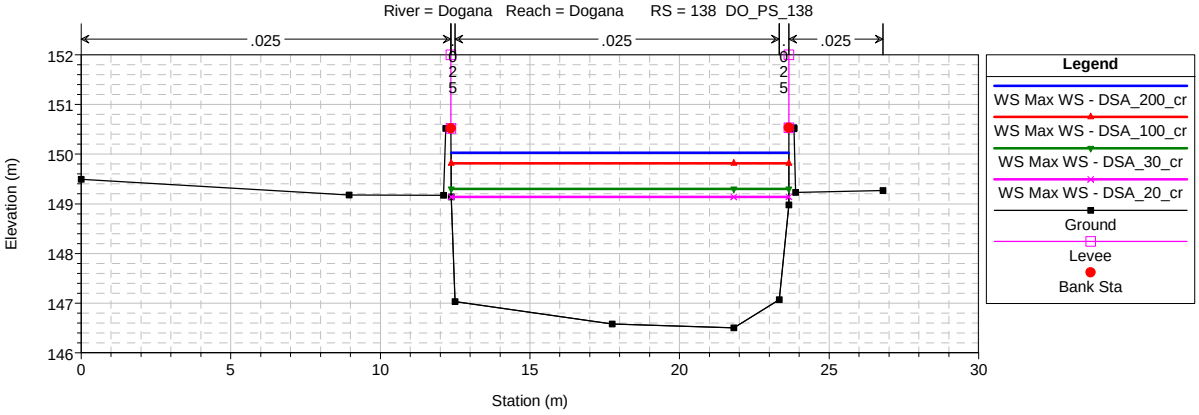
River = Dogana Reach = Dogana RS = 139 DO_PS_139



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

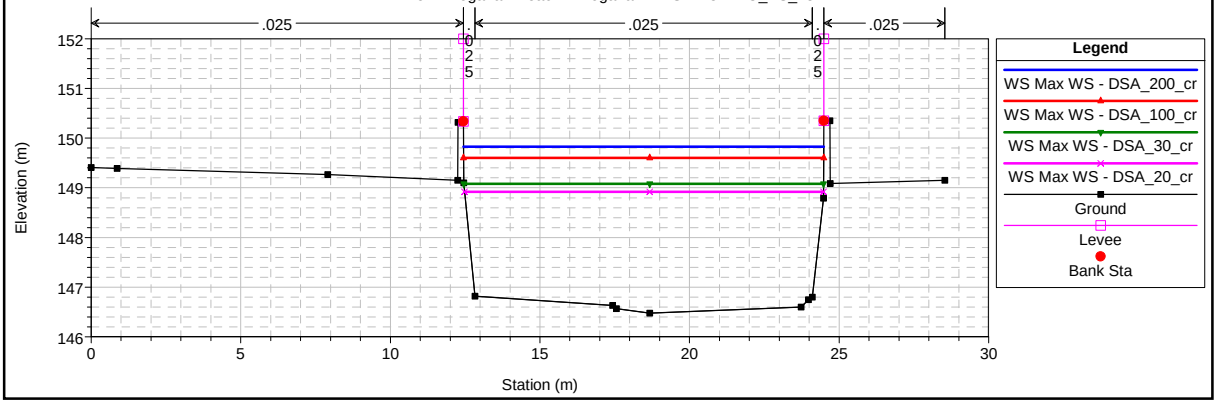
River = Dogana Reach = Dogana RS = 138 DO_PS_138



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

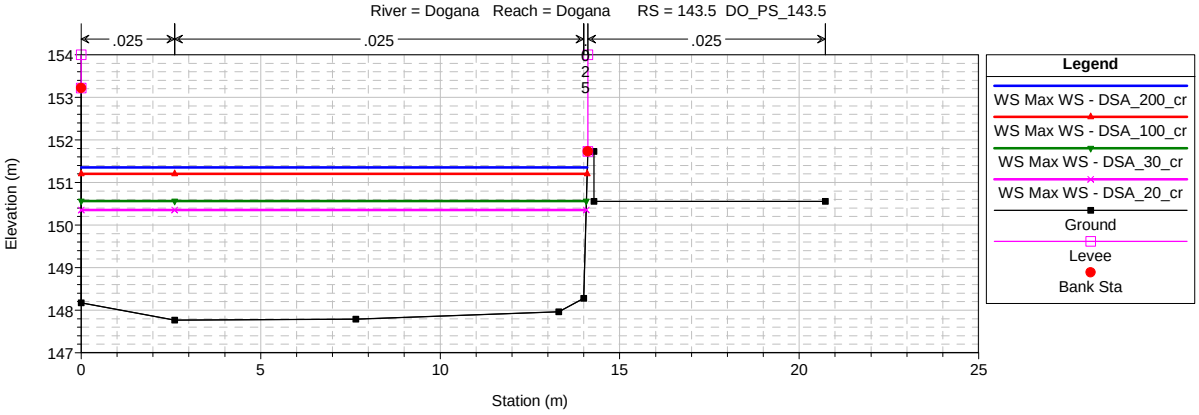
River = Dogana Reach = Dogana RS = 137 DO_PS_137



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

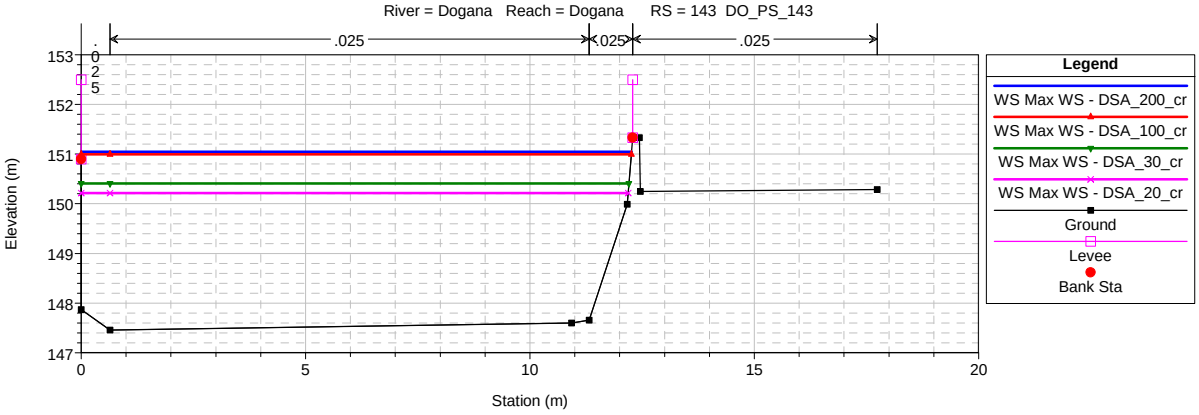
River = Dogana Reach = Dogana RS = 143.5 DO_PS_143.5



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

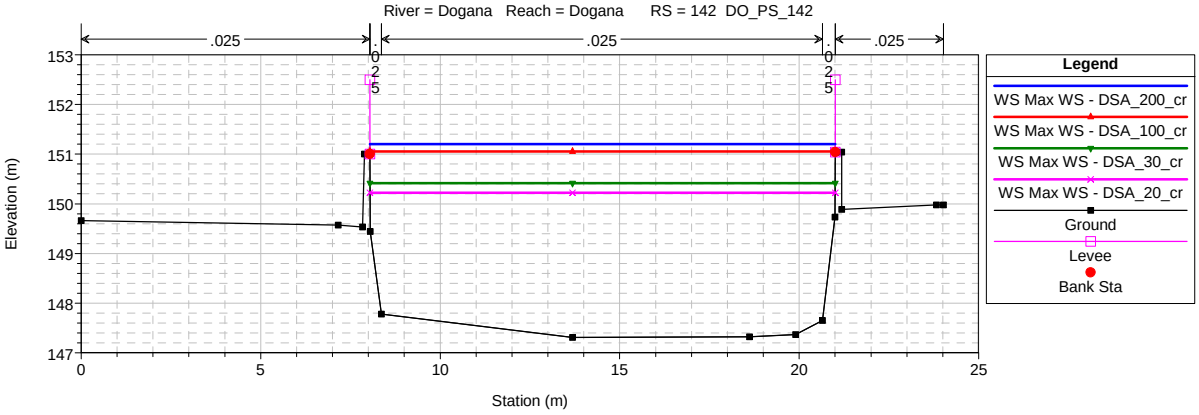
River = Dogana Reach = Dogana RS = 143 DO_PS_143



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

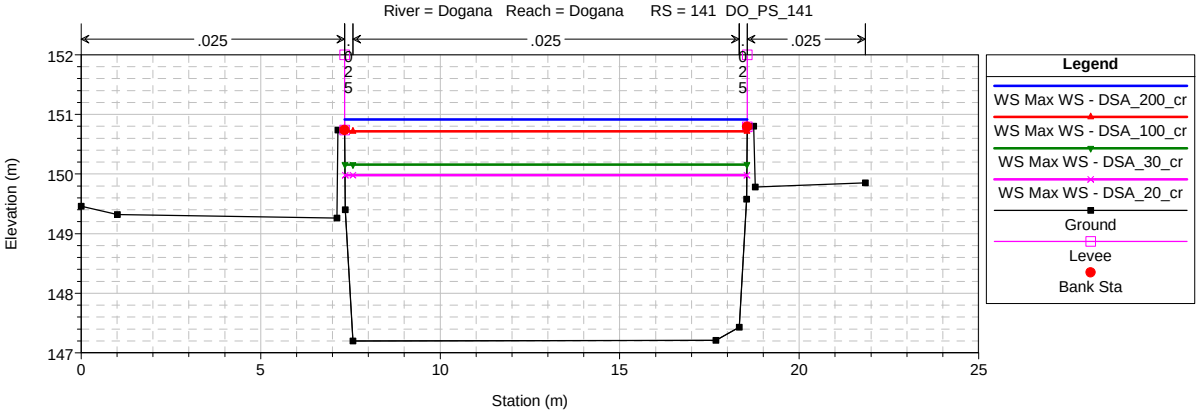
River = Dogana Reach = Dogana RS = 142 DO_PS_142



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

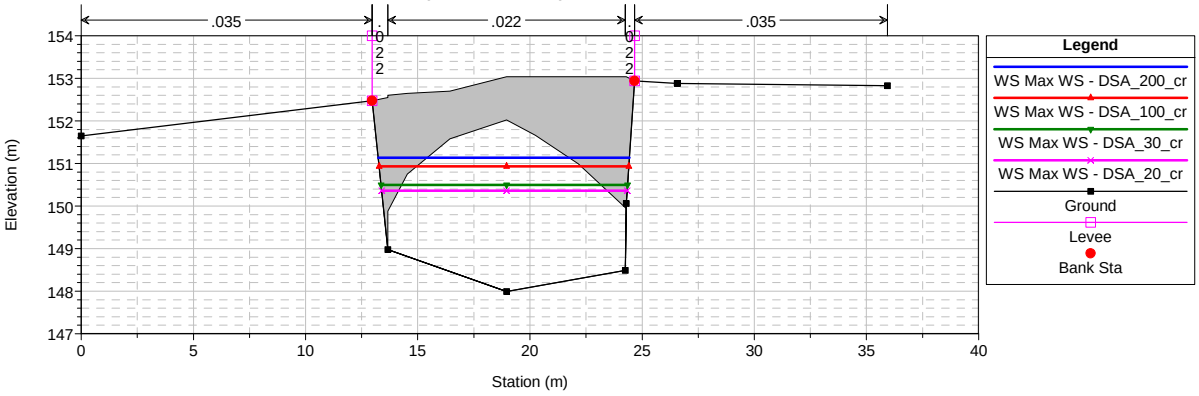
River = Dogana Reach = Dogana RS = 141 DO_PS_141



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

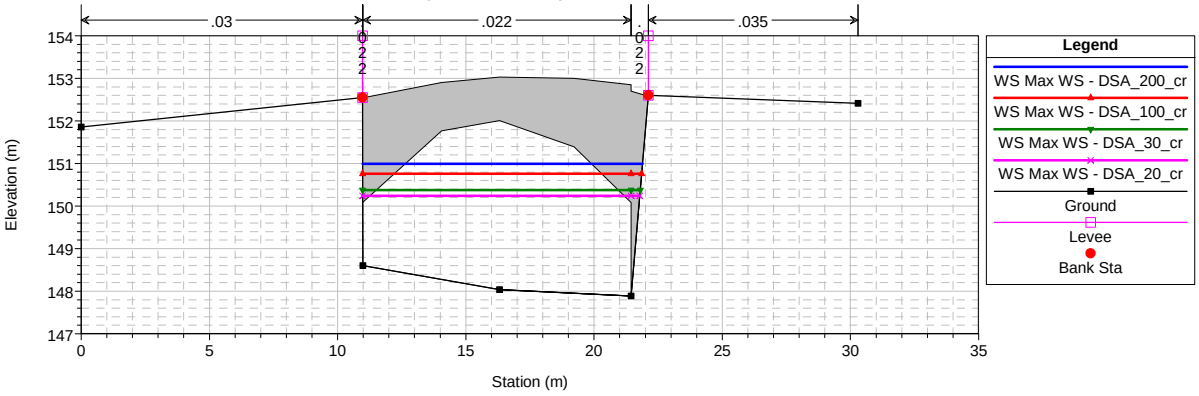
River = Dogana Reach = Dogana RS = 145.5 BR Ponte Pestello



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

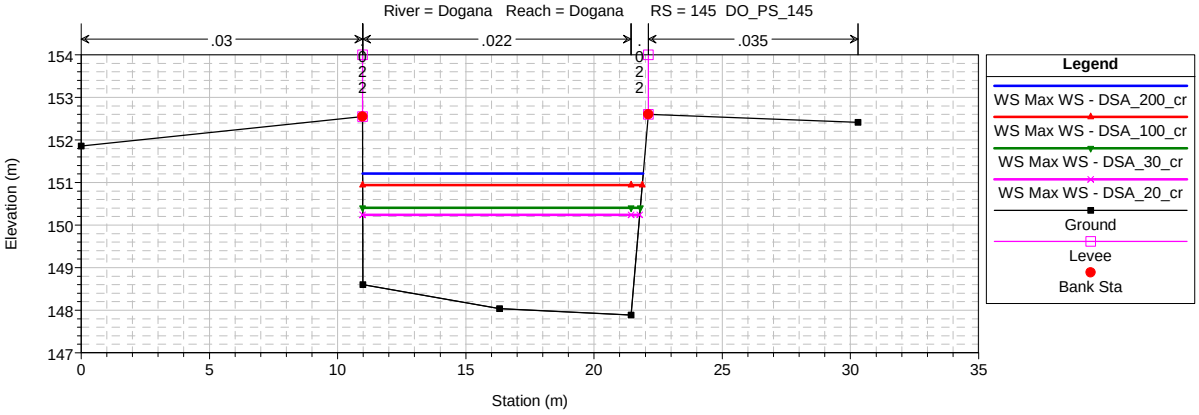
River = Dogana Reach = Dogana RS = 145.5 BR Ponte Pestello



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

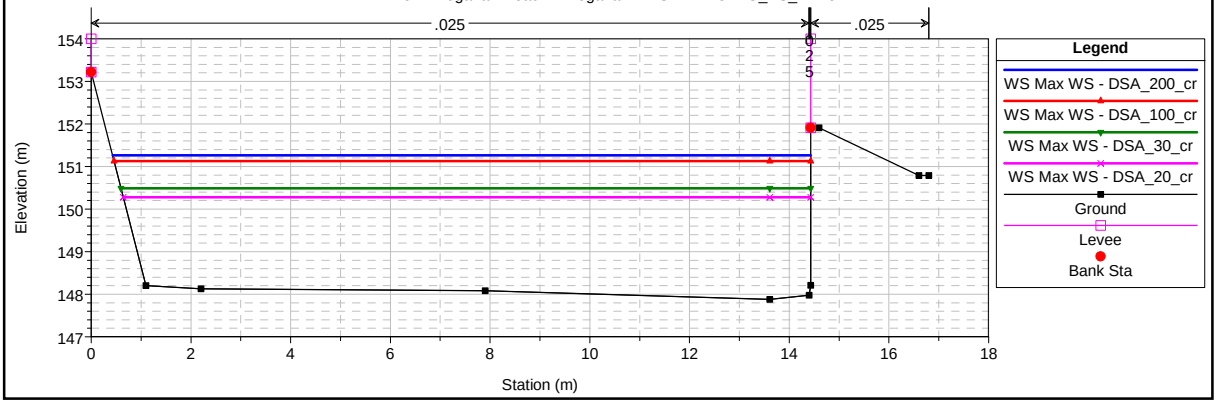
River = Dogana Reach = Dogana RS = 145 DO_PS_145



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

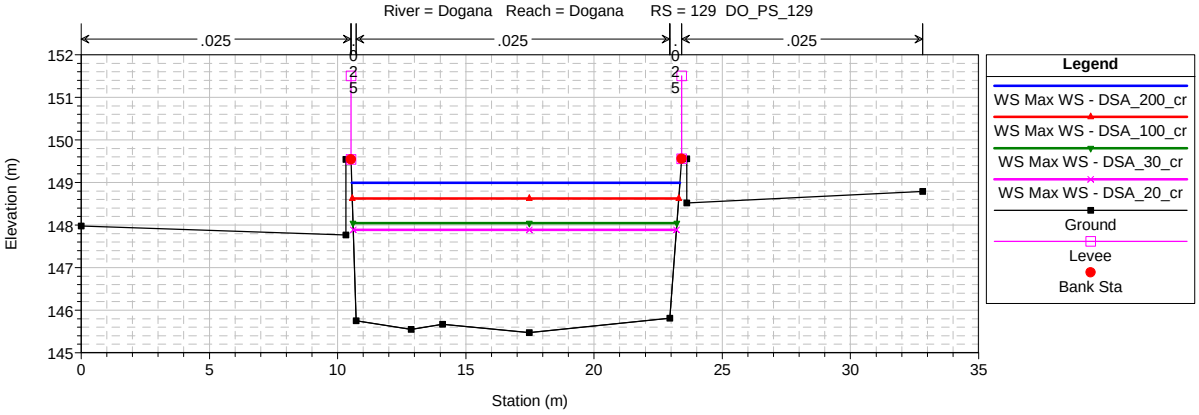
River = Dogana Reach = Dogana RS = 144.5 DO_PS_144.5



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

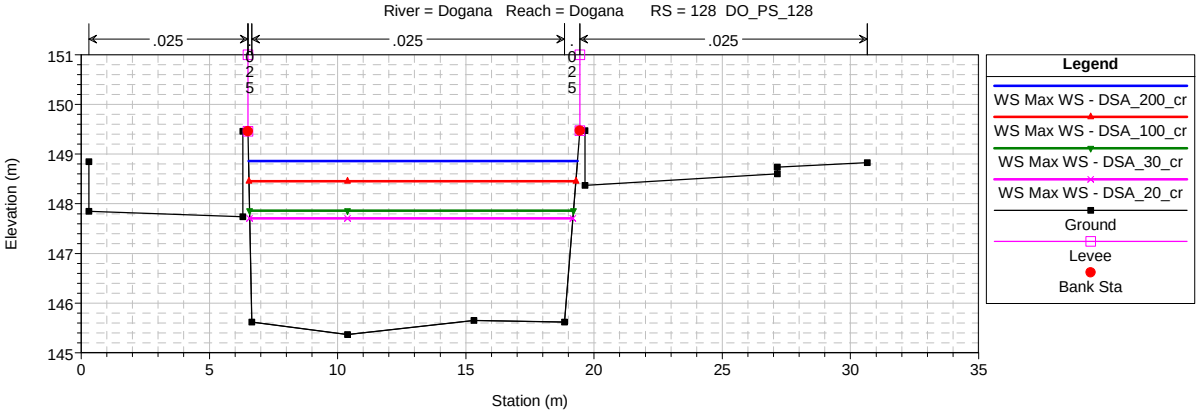
River = Dogana Reach = Dogana RS = 129 DO_PS_129



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

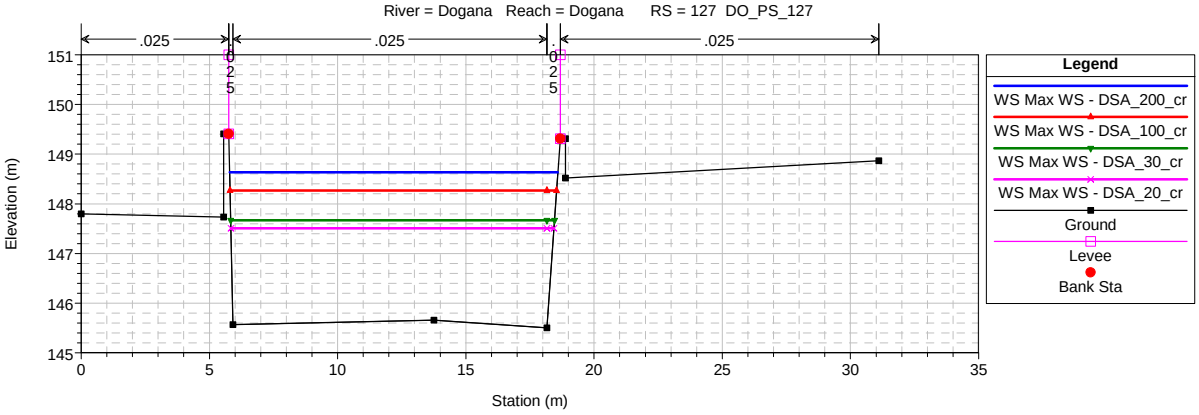
River = Dogana Reach = Dogana RS = 128 DO_PS_128



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

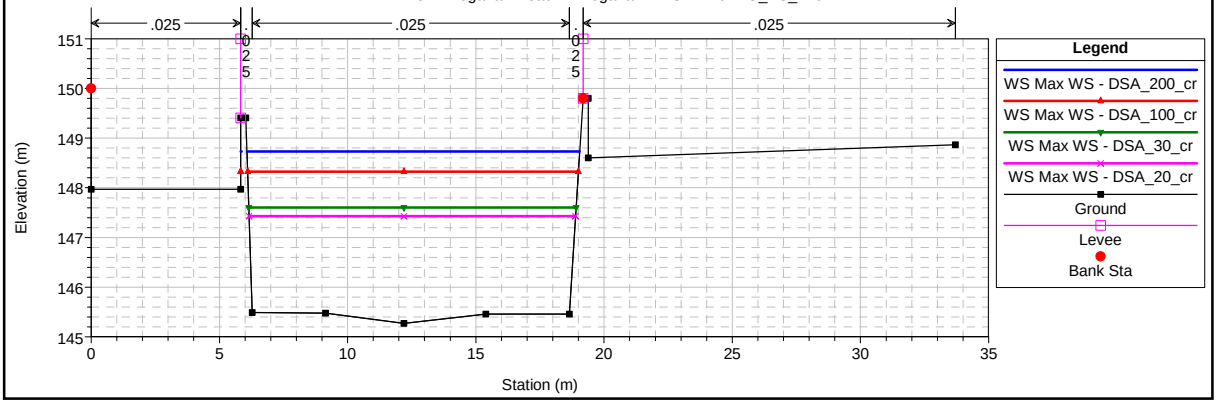
River = Dogana Reach = Dogana RS = 127 DO_PS_127

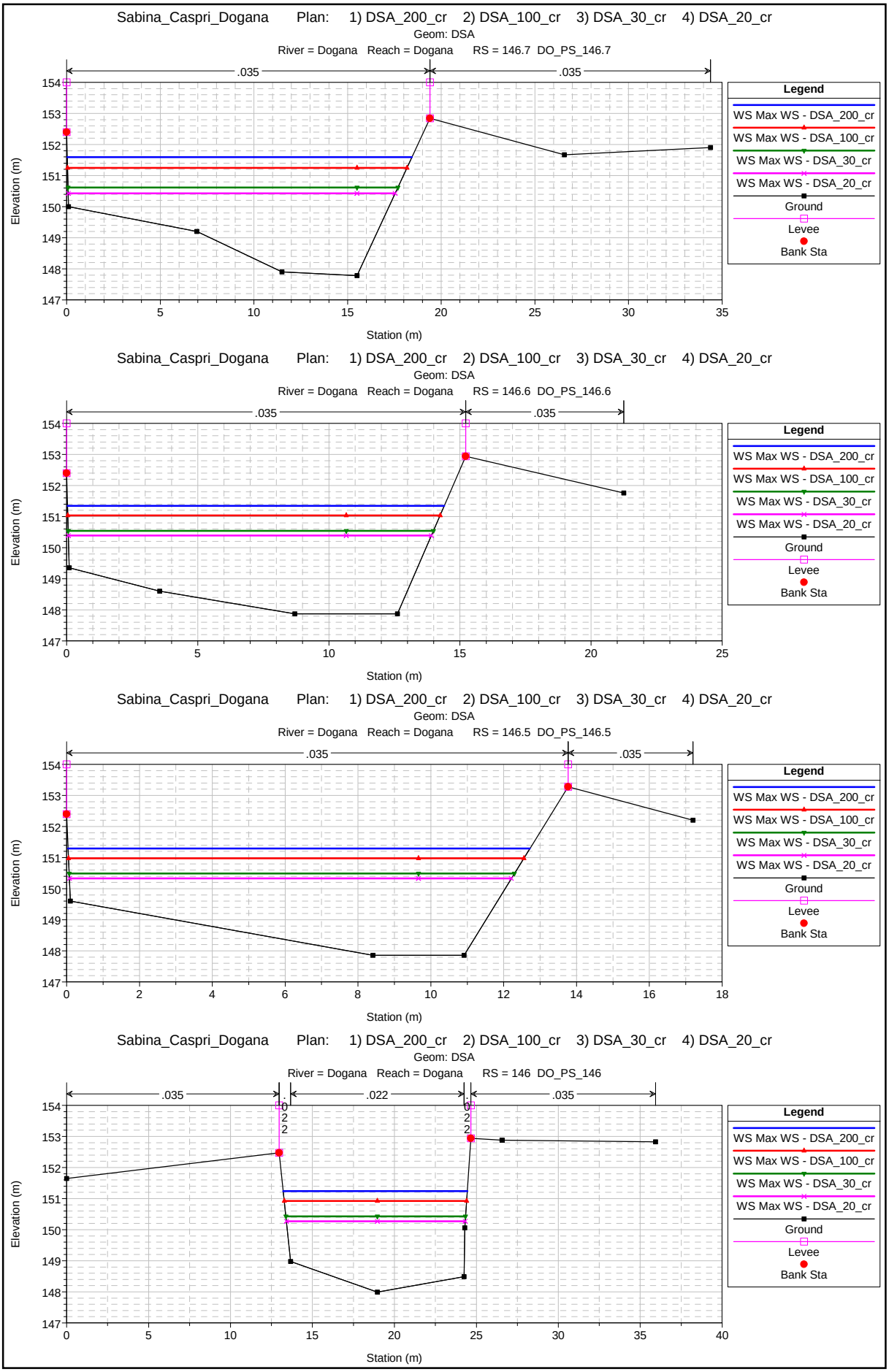


Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

River = Dogana Reach = Dogana RS = 126 DO_PS_126

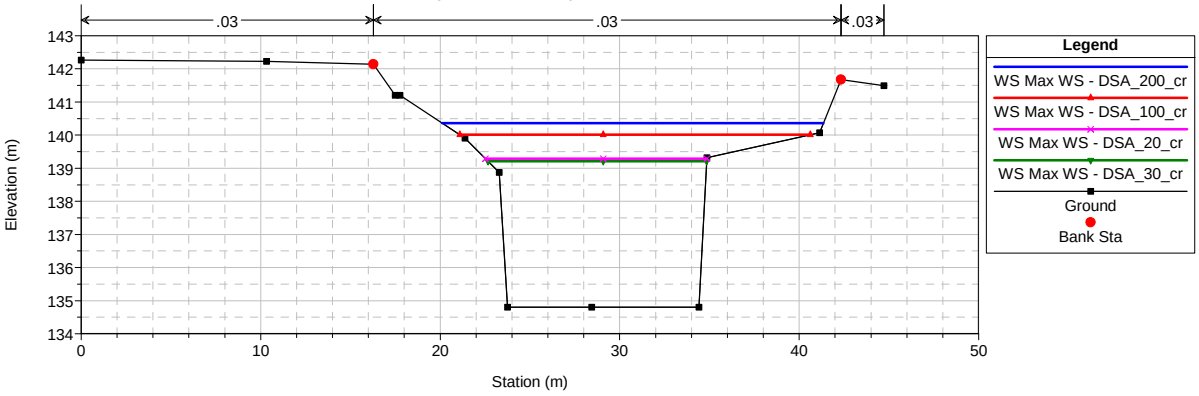



Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 146.7 DO_PS_146.7
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 146.6 DO_PS_146.6
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 146.5 DO_PS_146.5
.035
.035
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr
Geom: DSA
River = Dogana Reach = Dogana RS = 146 DO_PS_146
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Max WS - DSA_200_cr
WS Max WS - DSA_100_cr
WS Max WS - DSA_30_cr
WS Max WS - DSA_20_cr
Ground
Levee
Bank Sta

Sabina_Caspri_Dogana Plan: 1) DSA_200_cr 2) DSA_100_cr 3) DSA_30_cr 4) DSA_20_cr

Geom: DSA

River = Dogana Reach = Dogana RS = 80 Quota arno sez. 878



HEC-RAS River: Dogana Reach: Dogana Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	146.7	Max WS	DSA_200_cr	176.87	147.78	151.60		152.28	0.005809	3.67	48.21	18.41	0.72
Dogana	146.7	Max WS	DSA_100_cr	150.75	147.78	151.25		151.91	0.006420	3.60	41.89	18.13	0.76
Dogana	146.7	Max WS	DSA_30_cr	109.61	147.78	150.62		151.27	0.008798	3.58	30.62	17.61	0.87
Dogana	146.7	Max WS	DSA_20_cr	97.95	147.78	150.43		151.08	0.010065	3.60	27.25	17.46	0.92
Dogana	146.6	Max WS	DSA_200_cr	176.45	147.87	151.34		152.29	0.007910	4.31	40.96	14.37	0.81
Dogana	146.6	Max WS	DSA_100_cr	150.74	147.87	151.04		151.90	0.008024	4.12	36.58	14.20	0.82
Dogana	146.6	Max WS	DSA_30_cr	109.62	147.87	150.54		151.24	0.007889	3.70	29.64	13.93	0.81
Dogana	146.6	Max WS	DSA_20_cr	97.95	147.87	150.39		151.04	0.007901	3.57	27.48	13.85	0.81
Dogana	146.5	Max WS	DSA_200_cr	176.05	147.86	151.29	151.39	152.74	0.013903	5.33	33.00	12.68	1.06
Dogana	146.5	Max WS	DSA_100_cr	150.74	147.86	150.98	151.12	152.35	0.014677	5.18	29.10	12.51	1.08
Dogana	146.5	Max WS	DSA_30_cr	109.62	147.86	150.49	150.62	151.64	0.015557	4.77	22.98	12.23	1.11
Dogana	146.5	Max WS	DSA_20_cr	97.95	147.86	150.33	150.48	151.43	0.016104	4.65	21.07	12.14	1.13
Dogana	146	Max WS	DSA_200_cr	175.65	147.99	151.24	151.40	152.86	0.006222	5.64	31.12	11.23	1.08
Dogana	146	Max WS	DSA_100_cr	150.73	147.99	150.93	151.10	152.44	0.006447	5.45	27.64	11.13	1.10
Dogana	146	Max WS	DSA_30_cr	109.62	147.99	150.43	150.58	151.68	0.006510	4.95	22.14	10.96	1.11
Dogana	146	Max WS	DSA_20_cr	97.95	147.99	150.27	150.42	151.45	0.006617	4.80	20.41	10.91	1.12
Dogana	145.5			Bridge									
Dogana	145	Max WS	DSA_200_cr	178.10	147.89	151.21	151.21	152.71	0.005664	5.42	32.85	10.95	1.00
Dogana	145	Max WS	DSA_100_cr	150.73	147.89	150.94	150.89	152.23	0.005285	5.03	29.94	10.91	0.97
Dogana	145	Max WS	DSA_30_cr	109.62	147.89	150.41	150.36	151.46	0.005226	4.54	24.14	10.83	0.97
Dogana	145	Max WS	DSA_20_cr	97.95	147.89	150.24	150.21	151.22	0.005223	4.38	22.36	10.81	0.97
Dogana	144.5	Max WS	DSA_200_cr	177.47	147.88	151.26		152.09	0.003518	4.04	43.89	14.00	0.73
Dogana	144.5	Max WS	DSA_100_cr	150.71	147.88	151.13		151.78	0.002872	3.58	42.06	13.97	0.66
Dogana	144.5	Max WS	DSA_30_cr	109.52	147.88	150.49		151.04	0.003074	3.31	33.10	13.83	0.68
Dogana	144.5	Max WS	DSA_20_cr	97.88	147.88	150.28		150.81	0.003224	3.24	30.22	13.79	0.70
Dogana	143.5	Max WS	DSA_200_cr	177.36	147.77	151.36		152.03	0.002547	3.62	48.96	14.10	0.62
Dogana	143.5	Max WS	DSA_100_cr	150.71	147.77	151.20		151.73	0.002093	3.22	46.81	14.09	0.56
Dogana	143.5	Max WS	DSA_30_cr	109.54	147.77	150.56		150.99	0.002076	2.90	37.74	14.07	0.57
Dogana	143.5	Max WS	DSA_20_cr	97.90	147.77	150.35		150.76	0.002106	2.81	34.81	14.07	0.57

HEC-RAS River: Dogana Reach: Dogana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	143.49			Lat Struct									
Dogana	143.48			Lat Struct									
Dogana	143	Max WS	DSA_200_cr	171.93	147.46	151.05		151.92	0.003530	4.13	41.62	12.26	0.72
Dogana	143	Max WS	DSA_100_cr	150.69	147.46	150.99		151.68	0.002833	3.68	40.99	12.26	0.64
Dogana	143	Max WS	DSA_30_cr	109.54	147.46	150.41		150.94	0.002604	3.24	33.79	12.21	0.62
Dogana	143	Max WS	DSA_20_cr	97.90	147.46	150.21		150.71	0.002568	3.12	31.42	12.19	0.62
Dogana	142	Max WS	DSA_200_cr	172.89	147.31	151.20		151.86	0.002413	3.60	48.05	12.97	0.60
Dogana	142	Max WS	DSA_100_cr	149.53	147.31	151.05		151.59	0.002030	3.24	46.10	12.97	0.55
Dogana	142	Max WS	DSA_30_cr	109.55	147.31	150.42		150.84	0.001910	2.89	37.90	12.96	0.54
Dogana	142	Max WS	DSA_20_cr	97.90	147.31	150.22		150.61	0.001872	2.77	35.33	12.96	0.54
Dogana	141	Max WS	DSA_200_cr	168.20	147.20	150.91		151.78	0.003536	4.11	40.92	11.21	0.69
Dogana	141	Max WS	DSA_100_cr	149.45	147.20	150.71		151.48	0.003269	3.86	38.68	11.21	0.66
Dogana	141	Max WS	DSA_30_cr	109.54	147.20	150.16		150.74	0.002893	3.38	32.44	11.20	0.63
Dogana	141	Max WS	DSA_20_cr	97.90	147.20	149.98		150.51	0.002764	3.21	30.48	11.19	0.62
Dogana	140	Max WS	DSA_200_cr	167.03	146.78	150.73		151.47	0.002899	3.83	43.65	11.85	0.64
Dogana	140	Max WS	DSA_100_cr	149.43	146.78	150.50		151.18	0.002766	3.64	41.01	11.85	0.63
Dogana	140	Max WS	DSA_30_cr	109.53	146.78	149.94		150.46	0.002468	3.19	34.31	11.83	0.60
Dogana	140	Max WS	DSA_20_cr	97.89	146.78	149.76		150.23	0.002364	3.04	32.22	11.82	0.59
Dogana	139	Max WS	DSA_200_cr	166.59	146.89	150.31		151.28	0.004279	4.38	38.07	11.48	0.77
Dogana	139	Max WS	DSA_100_cr	149.41	146.89	150.09		150.99	0.004188	4.20	35.53	11.48	0.76
Dogana	139	Max WS	DSA_30_cr	109.52	146.89	149.56		150.26	0.003863	3.72	29.45	11.47	0.74
Dogana	139	Max WS	DSA_20_cr	97.89	146.89	149.39		150.03	0.003752	3.55	27.55	11.47	0.73
Dogana	138	Max WS	DSA_200_cr	166.57	146.50	150.03		151.07	0.004491	4.51	36.95	11.30	0.80
Dogana	138	Max WS	DSA_100_cr	149.41	146.50	149.81		150.77	0.004381	4.33	34.52	11.30	0.79
Dogana	138	Max WS	DSA_30_cr	109.52	146.50	149.30		150.04	0.003984	3.81	28.73	11.29	0.76
Dogana	138	Max WS	DSA_20_cr	97.89	146.50	149.14		149.82	0.003848	3.64	26.92	11.29	0.75
Dogana	137.99			Lat Struct									
Dogana	137.98			Lat Struct									

HEC-RAS River: Dogana Reach: Dogana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	137	Max WS	DSA_200_cr	166.57	146.48	149.83		150.82	0.004393	4.43	37.64	12.04	0.80
Dogana	137	Max WS	DSA_100_cr	149.39	146.48	149.60		150.53	0.004387	4.28	34.90	12.04	0.80
Dogana	137	Max WS	DSA_30_cr	109.51	146.48	149.08		149.82	0.004186	3.82	28.65	12.03	0.79
Dogana	137	Max WS	DSA_20_cr	97.88	146.48	148.92		149.60	0.004109	3.66	26.71	12.00	0.78
Dogana	136	Max WS	DSA_200_cr	166.55	146.22	149.64		150.58	0.004152	4.29	38.79	12.54	0.78
Dogana	136	Max WS	DSA_100_cr	149.37	146.22	149.40		150.29	0.004225	4.18	35.75	12.50	0.79
Dogana	136	Max WS	DSA_30_cr	109.50	146.22	148.88		149.59	0.004083	3.74	29.26	12.41	0.78
Dogana	136	Max WS	DSA_20_cr	97.88	146.22	148.72		149.38	0.004007	3.59	27.29	12.38	0.77
Dogana	135	Max WS	DSA_200_cr	166.54	146.07	149.47		150.34	0.003786	4.13	40.28	13.04	0.75
Dogana	135	Max WS	DSA_100_cr	149.32	146.07	149.20		150.04	0.003993	4.07	36.68	13.04	0.77
Dogana	135	Max WS	DSA_30_cr	109.49	146.07	148.64		149.34	0.004129	3.73	29.38	12.99	0.79
Dogana	135	Max WS	DSA_20_cr	97.87	146.07	148.47		149.13	0.004146	3.60	27.21	12.94	0.79
Dogana	131	Max WS	DSA_200_cr	166.53	145.77	149.11		150.02	0.004076	4.23	39.33	12.55	0.76
Dogana	131	Max WS	DSA_100_cr	149.26	145.77	148.78		149.70	0.004488	4.23	35.27	12.51	0.80
Dogana	131	Max WS	DSA_30_cr	109.44	145.77	148.22		148.98	0.004646	3.88	28.22	12.45	0.82
Dogana	131	Max WS	DSA_20_cr	95.42	145.77	148.05		148.73	0.004422	3.65	26.17	12.43	0.80
Dogana	130	Max WS	DSA_200_cr	166.53	145.53	149.10		149.89	0.003359	3.95	42.21	12.70	0.69
Dogana	130	Max WS	DSA_100_cr	149.23	145.53	148.76		149.55	0.003673	3.94	37.92	12.67	0.73
Dogana	130	Max WS	DSA_30_cr	109.37	145.53	148.19		148.83	0.003682	3.57	30.64	12.61	0.73
Dogana	130	Max WS	DSA_20_cr	95.38	145.53	148.02		148.59	0.003442	3.34	28.58	12.60	0.71
Dogana	129	Max WS	DSA_200_cr	166.47	145.47	148.99		149.79	0.003297	3.95	42.18	12.80	0.69
Dogana	129	Max WS	DSA_100_cr	149.17	145.47	148.63		149.43	0.003707	3.98	37.52	12.74	0.74
Dogana	129	Max WS	DSA_30_cr	109.22	145.47	148.05		148.72	0.003767	3.62	30.15	12.64	0.75
Dogana	129	Max WS	DSA_20_cr	95.33	145.47	147.89		148.47	0.003515	3.39	28.16	12.61	0.72
Dogana	128	Max WS	DSA_200_cr	166.43	145.37	148.86		149.68	0.003475	4.01	41.53	12.83	0.71
Dogana	128	Max WS	DSA_100_cr	149.05	145.37	148.45		149.31	0.004106	4.10	36.31	12.75	0.78
Dogana	128	Max WS	DSA_30_cr	108.90	145.37	147.86		148.59	0.004341	3.78	28.78	12.64	0.80
Dogana	128	Max WS	DSA_20_cr	97.11	145.37	147.70		148.37	0.004261	3.62	26.81	12.61	0.79
Dogana	127	Max WS	DSA_200_cr	166.40	145.50	148.64		149.61	0.004580	4.38	38.01	12.80	0.81

HEC-RAS River: Dogana Reach: Dogana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	127	Max WS	DSA_100_cr	149.27	145.50	148.27		149.29	0.005438	4.49	33.27	12.73	0.89
Dogana	127	Max WS	DSA_30_cr	108.26	145.50	147.67	147.59	148.57	0.006165	4.21	25.69	12.62	0.94
Dogana	127	Max WS	DSA_20_cr	96.23	145.50	147.51	147.44	148.35	0.006216	4.06	23.69	12.59	0.95
Dogana	126	Max WS	DSA_200_cr	166.34	145.27	148.73		149.53	0.003397	3.96	41.96	12.98	0.70
Dogana	126	Max WS	DSA_100_cr	149.18	145.27	148.32		149.17	0.004042	4.07	36.66	12.90	0.77
Dogana	126	Max WS	DSA_30_cr	108.00	145.27	147.61		148.39	0.004971	3.93	27.45	12.77	0.86
Dogana	126	Max WS	DSA_20_cr	95.44	145.27	147.43		148.16	0.005020	3.79	25.20	12.73	0.86
Dogana	125.5	Max WS	DSA_200_cr	166.33	145.29	148.72		149.53	0.003445	3.98	41.77	12.97	0.71
Dogana	125.5	Max WS	DSA_100_cr	149.17	145.29	148.31		149.16	0.004120	4.10	36.42	12.90	0.78
Dogana	125.5	Max WS	DSA_30_cr	108.00	145.29	147.59		148.39	0.005104	3.97	27.22	12.76	0.87
Dogana	125.5	Max WS	DSA_20_cr	95.42	145.29	147.42		148.16	0.005150	3.82	24.99	12.73	0.87
Dogana	125	Max WS	DSA_200_cr	166.33	144.25	149.03		149.52	0.001584	3.10	53.71	13.03	0.49
Dogana	125	Max WS	DSA_100_cr	149.17	144.25	148.65		149.13	0.001664	3.06	48.80	12.96	0.50
Dogana	125	Max WS	DSA_30_cr	110.48	144.25	147.89		148.29	0.001731	2.84	38.95	12.82	0.52
Dogana	125	Max WS	DSA_20_cr	100.05	144.25	147.67		148.06	0.001745	2.76	36.26	12.78	0.52
Dogana	124	Max WS	DSA_200_cr	166.24	144.72	148.85		149.48	0.002306	3.53	47.10	12.71	0.59
Dogana	124	Max WS	DSA_100_cr	149.06	144.72	148.45		149.09	0.002547	3.54	42.08	12.57	0.62
Dogana	124	Max WS	DSA_30_cr	110.28	144.72	147.66		148.26	0.002981	3.42	32.29	12.31	0.67
Dogana	124	Max WS	DSA_20_cr	99.66	144.72	147.44		148.02	0.003144	3.37	29.58	12.23	0.69
Dogana	123.9	Max WS	DSA_200_cr	166.23	144.69	148.66	147.72	149.48	0.003334	4.01	41.46	10.87	0.66
Dogana	123.9	Max WS	DSA_100_cr	149.05	144.69	148.28	147.51	149.09	0.003615	4.00	37.24	10.84	0.69
Dogana	123.9	Max WS	DSA_30_cr	110.27	144.69	147.54	147.02	148.26	0.003916	3.77	29.29	10.78	0.73
Dogana	123.9	Max WS	DSA_20_cr	99.65	144.69	147.34	146.88	148.03	0.004001	3.68	27.10	10.77	0.74
Dogana	123			Bridge									
Dogana	122.9	Max WS	DSA_200_cr	166.83	144.68	148.00		149.26	0.006000	4.97	33.56	10.88	0.90
Dogana	122.9	Max WS	DSA_100_cr	149.63	144.68	147.79		148.96	0.005927	4.79	31.22	10.87	0.90
Dogana	122.9	Max WS	DSA_30_cr	108.10	144.68	147.27		148.18	0.005472	4.22	25.63	10.82	0.88
Dogana	122.9	Max WS	DSA_20_cr	98.27	144.68	147.10		147.97	0.005650	4.14	23.75	10.81	0.89
Dogana	122	Max WS	DSA_200_cr	166.83	144.68	147.98		149.26	0.006119	5.01	33.33	10.88	0.91

HEC-RAS River: Dogana Reach: Dogana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	122	Max WS	DSA_100_cr	149.63	144.68	147.76		148.95	0.006055	4.83	30.99	10.86	0.91
Dogana	122	Max WS	DSA_30_cr	108.09	144.68	147.25		148.17	0.005604	4.25	25.41	10.82	0.89
Dogana	122	Max WS	DSA_20_cr	96.18	144.68	147.08		147.93	0.005555	4.09	23.54	10.81	0.88
Dogana	121	Max WS	DSA_200_cr	166.82	144.50	148.14		149.14	0.004780	4.44	37.60	11.98	0.80
Dogana	121	Max WS	DSA_100_cr	149.63	144.50	147.91		148.84	0.004496	4.27	35.06	11.38	0.78
Dogana	121	Max WS	DSA_30_cr	110.28	144.50	147.39		148.12	0.004186	3.79	29.09	11.38	0.76
Dogana	121	Max WS	DSA_20_cr	98.26	144.50	147.21		147.88	0.004115	3.63	27.05	11.38	0.75
Dogana	120	Max WS	DSA_200_cr	166.81	144.62	147.99		149.14	0.005636	4.76	35.06	10.86	0.85
Dogana	120	Max WS	DSA_100_cr	149.61	144.62	147.78		148.84	0.005484	4.56	32.80	10.86	0.84
Dogana	120	Max WS	DSA_30_cr	110.24	144.62	147.29		148.11	0.004976	4.01	27.46	10.86	0.81
Dogana	120	Max WS	DSA_20_cr	98.22	144.62	147.12		147.87	0.004835	3.83	25.63	10.86	0.80
Dogana	119	Max WS	DSA_200_cr	166.80	144.61	147.94	147.68	149.14	0.005963	4.87	34.23	11.00	0.88
Dogana	119	Max WS	DSA_100_cr	149.61	144.61	147.72	147.49	148.84	0.005863	4.69	31.91	11.00	0.88
Dogana	119	Max WS	DSA_30_cr	110.23	144.61	147.23	146.99	148.11	0.005501	4.17	26.43	11.00	0.86
Dogana	119	Max WS	DSA_20_cr	98.20	144.61	147.06	146.83	147.87	0.005422	4.00	24.55	11.00	0.85
Dogana	118.5			Bridge									
Dogana	118	Max WS	DSA_200_cr	166.76	144.52	148.03		148.97	0.004138	4.30	38.80	15.07	0.85
Dogana	118	Max WS	DSA_100_cr	149.47	144.52	147.75		148.70	0.004558	4.30	34.72	14.72	0.89
Dogana	118	Max WS	DSA_30_cr	107.80	144.52	147.11	147.11	148.02	0.005747	4.22	25.56	13.91	0.99
Dogana	118	Max WS	DSA_20_cr	96.09	144.52	146.94	146.96	147.82	0.006095	4.15	23.16	13.68	1.02
Dogana	117	Max WS	DSA_200_cr	166.36	144.33	147.72		149.03	0.006213	5.07	32.81	10.91	0.93
Dogana	117	Max WS	DSA_100_cr	148.95	144.33	147.51		148.72	0.006127	4.88	30.51	10.89	0.93
Dogana	117	Max WS	DSA_30_cr	107.24	144.33	146.99		147.94	0.005716	4.31	24.89	10.84	0.91
Dogana	117	Max WS	DSA_20_cr	95.45	144.33	146.81		147.69	0.005736	4.16	22.95	10.82	0.91
Dogana	116	Max WS	DSA_200_cr	166.73	144.33	147.93		148.71	0.003167	3.90	42.74	13.49	0.70
Dogana	116	Max WS	DSA_100_cr	149.51	144.33	147.70		148.43	0.003183	3.78	39.57	13.45	0.70
Dogana	116	Max WS	DSA_30_cr	111.23	144.33	147.11		147.74	0.003370	3.51	31.71	13.33	0.73
Dogana	116	Max WS	DSA_20_cr	99.87	144.33	146.92		147.52	0.003492	3.43	29.14	13.29	0.74
Dogana	115	Max WS	DSA_200_cr	166.72	144.33	147.66		148.87	0.005668	4.89	34.11	11.75	0.92

HEC-RAS River: Dogana Reach: Dogana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	115	Max WS	DSA_100_cr	149.57	144.33	147.44		148.58	0.005676	4.73	31.61	11.71	0.92
Dogana	115	Max WS	DSA_30_cr	111.04	144.33	146.91	146.82	147.88	0.005925	4.37	25.39	11.60	0.94
Dogana	115	Max WS	DSA_20_cr	99.42	144.33	146.74	146.68	147.66	0.006008	4.24	23.45	11.57	0.95
Dogana	114	Max WS	DSA_200_cr	166.62	144.32	147.86		148.60	0.003049	3.81	43.68	13.25	0.67
Dogana	114	Max WS	DSA_100_cr	149.43	144.32	147.62		148.31	0.003034	3.68	40.58	13.22	0.67
Dogana	114	Max WS	DSA_30_cr	110.79	144.32	147.03		147.61	0.003129	3.39	32.73	13.14	0.68
Dogana	114	Max WS	DSA_20_cr	99.45	144.32	146.83		147.39	0.003215	3.30	30.15	13.11	0.69
Dogana	113	Max WS	DSA_200_cr	166.61	144.08	148.12		148.52	0.001412	2.81	59.27	17.83	0.49
Dogana	113	Max WS	DSA_100_cr	149.35	144.08	147.86		148.24	0.001450	2.74	54.54	17.78	0.50
Dogana	113	Max WS	DSA_30_cr	110.04	144.08	147.18		147.52	0.001663	2.59	42.52	17.63	0.53
Dogana	113	Max WS	DSA_20_cr	99.31	144.08	146.96		147.30	0.001802	2.57	38.70	17.59	0.55
Dogana	112.5	Max WS	DSA_200_cr	166.53	144.04	147.88		148.50	0.002324	3.48	47.82	12.80	0.58
Dogana	112.5	Max WS	DSA_100_cr	149.28	144.04	147.65		148.21	0.002243	3.33	44.83	12.80	0.57
Dogana	112.5	Max WS	DSA_30_cr	109.82	144.04	147.04		147.49	0.002097	2.96	37.07	12.80	0.56
Dogana	112.5	Max WS	DSA_20_cr	99.21	144.04	146.84		147.26	0.002097	2.87	34.57	12.80	0.56
Dogana	112.1	Max WS	DSA_200_cr	166.56	144.01	148.16	146.30	148.46	0.000737	2.44	68.26	17.10	0.39
Dogana	112.1	Max WS	DSA_100_cr	149.29	144.01	147.90	146.15	148.18	0.000720	2.34	63.81	17.10	0.39
Dogana	112.1	Max WS	DSA_30_cr	109.70	144.01	147.23	145.78	147.46	0.000695	2.09	52.40	17.10	0.38
Dogana	112.1	Max WS	DSA_20_cr	99.11	144.01	147.02	145.68	147.23	0.000700	2.03	48.83	17.10	0.38
Dogana	112			Bridge									
Dogana	111	Max WS	DSA_200_cr	166.54	143.95	148.21		148.45	0.000566	2.17	76.61	20.40	0.36
Dogana	111	Max WS	DSA_100_cr	149.27	143.95	147.94		148.17	0.000567	2.10	71.14	20.40	0.36
Dogana	111	Max WS	DSA_30_cr	109.91	143.95	147.26		147.45	0.000594	1.92	57.14	20.40	0.37
Dogana	111	Max WS	DSA_20_cr	98.95	143.95	147.04		147.22	0.000614	1.88	52.74	20.40	0.37
Dogana	110.99			Lat Struct									
Dogana	110.5	Max WS	DSA_200_cr	166.52	143.95	148.20		148.44	0.000719	2.17	76.78	20.20	0.36
Dogana	110.5	Max WS	DSA_100_cr	149.25	143.95	147.93		148.15	0.000717	2.09	71.38	20.20	0.36
Dogana	110.5	Max WS	DSA_30_cr	109.78	143.95	147.24		147.43	0.000741	1.91	57.53	20.20	0.36
Dogana	110.5	Max WS	DSA_20_cr	98.67	143.95	147.03		147.20	0.000761	1.86	53.15	20.20	0.37

HEC-RAS River: Dogana Reach: Dogana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	110.49			Lat Struct									
Dogana	110	Max WS	DSA_200_cr	166.49	143.84	148.02		148.41	0.001303	2.77	60.16	16.51	0.46
Dogana	110	Max WS	DSA_100_cr	149.23	143.84	147.77		148.13	0.001295	2.67	55.92	16.49	0.46
Dogana	110	Max WS	DSA_30_cr	109.59	143.84	147.10		147.41	0.001293	2.43	45.09	16.14	0.46
Dogana	110	Max WS	DSA_20_cr	98.44	143.84	146.89		147.18	0.001318	2.36	41.70	16.11	0.47
Dogana	109	Max WS	DSA_200_cr	166.47	143.40	147.51		148.32	0.003312	4.00	41.65	11.64	0.67
Dogana	109	Max WS	DSA_100_cr	149.21	143.40	147.30		148.04	0.003140	3.80	39.27	11.61	0.66
Dogana	109	Max WS	DSA_30_cr	109.58	143.40	146.75		147.32	0.002804	3.33	32.90	11.51	0.63
Dogana	109	Max WS	DSA_20_cr	98.24	143.40	146.57		147.09	0.002722	3.19	30.82	11.48	0.62
Dogana	108	Max WS	DSA_200_cr	166.46	143.42	146.93		148.16	0.005760	4.92	33.85	11.14	0.90
Dogana	108	Max WS	DSA_100_cr	149.21	143.42	146.74		147.87	0.005553	4.70	31.75	11.14	0.89
Dogana	108	Max WS	DSA_30_cr	109.57	143.42	146.24		147.13	0.005256	4.19	26.13	11.14	0.87
Dogana	108	Max WS	DSA_20_cr	98.18	143.42	146.07		146.90	0.005278	4.06	24.21	11.14	0.88
Dogana	107	Max WS	DSA_200_cr	166.48	143.17	147.37		147.76	0.001351	2.77	60.17	18.01	0.48
Dogana	107	Max WS	DSA_100_cr	149.18	143.17	147.18		147.53	0.001298	2.63	56.63	17.99	0.47
Dogana	107	Max WS	DSA_30_cr	109.36	143.17	146.60		146.89	0.001279	2.36	46.25	17.94	0.47
Dogana	107	Max WS	DSA_20_cr	98.14	143.17	146.39		146.66	0.001329	2.31	42.51	17.92	0.48
Dogana	106	Max WS	DSA_200_cr	166.47	142.93	147.03	145.91	147.65	0.001816	3.47	47.96	13.77	0.59
Dogana	106	Max WS	DSA_100_cr	149.15	142.93	146.88	145.72	147.42	0.001574	3.25	45.96	13.08	0.55
Dogana	106	Max WS	DSA_30_cr	109.34	142.93	146.38	145.28	146.77	0.001308	2.77	39.47	13.04	0.51
Dogana	106	Max WS	DSA_20_cr	98.07	142.93	146.20	145.14	146.55	0.001267	2.65	37.02	13.02	0.50
Dogana	105.5			Bridge									
Dogana	105	Max WS	DSA_200_cr	166.46	142.94	147.24		147.61	0.000926	2.68	62.07	19.47	0.48
Dogana	105	Max WS	DSA_100_cr	149.17	142.94	147.06		147.39	0.000879	2.55	58.44	19.05	0.47
Dogana	105	Max WS	DSA_30_cr	109.35	142.94	146.49		146.75	0.000821	2.28	47.96	17.78	0.44
Dogana	105	Max WS	DSA_20_cr	98.06	142.94	146.28		146.53	0.000822	2.21	44.37	17.32	0.44
Dogana	104	Max WS	DSA_200_cr	166.45	142.27	146.68		147.31	0.003786	3.54	47.03	15.93	0.66
Dogana	104	Max WS	DSA_100_cr	149.15	142.27	146.55		147.11	0.003422	3.31	45.10	15.73	0.62

HEC-RAS River: Dogana Reach: Dogana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	104	Max WS	DSA_30_cr	109.33	142.27	146.07		146.50	0.003060	2.90	37.73	14.93	0.58
Dogana	104	Max WS	DSA_20_cr	97.75	142.27	145.89		146.28	0.003048	2.80	34.95	14.62	0.58
Dogana	103.99			Lat Struct									
Dogana	103	Max WS	DSA_200_cr	165.20	142.06	146.49		147.04	0.003674	3.27	50.44	20.97	0.67
Dogana	103	Max WS	DSA_100_cr	149.13	142.06	146.35		146.85	0.003558	3.14	47.54	20.69	0.66
Dogana	103	Max WS	DSA_30_cr	109.33	142.06	145.83		146.26	0.003487	2.90	37.66	18.07	0.64
Dogana	103	Max WS	DSA_20_cr	97.73	142.06	145.61		146.04	0.003805	2.89	33.78	17.44	0.66
Dogana	102	Max WS	DSA_200_cr	163.62	141.69	145.93		146.65	0.004875	3.75	43.65	18.12	0.77
Dogana	102	Max WS	DSA_100_cr	149.12	141.69	145.79		146.46	0.004710	3.62	41.15	17.46	0.75
Dogana	102	Max WS	DSA_30_cr	109.33	141.69	145.34		145.87	0.004206	3.25	33.69	15.34	0.70
Dogana	102	Max WS	DSA_20_cr	97.72	141.69	145.12		145.64	0.004326	3.21	30.46	14.32	0.70
Dogana	101	Max WS	DSA_200_cr	163.62	141.45	144.72	145.04	146.12	0.012884	5.24	31.23	17.10	1.24
Dogana	101	Max WS	DSA_100_cr	149.11	141.45	144.57	144.90	145.94	0.012702	5.19	28.74	15.71	1.22
Dogana	101	Max WS	DSA_30_cr	109.32	141.45	144.10	144.32	145.31	0.011554	4.88	22.41	12.39	1.16
Dogana	101	Max WS	DSA_20_cr	97.53	141.45	143.69	144.14	145.25	0.017961	5.54	17.62	11.35	1.42
Dogana	100	Max WS	DSA_200_cr	163.62	141.20	144.83	144.07	145.32	0.001343	3.09	52.88	20.87	0.62
Dogana	100	Max WS	DSA_100_cr	149.11	141.20	144.68	143.94	145.14	0.001346	3.01	49.62	20.55	0.62
Dogana	100	Max WS	DSA_30_cr	109.32	141.20	144.13	143.33	144.54	0.001503	2.82	38.79	19.48	0.64
Dogana	100	Max WS	DSA_20_cr	96.69	141.20	143.20		144.04	0.003677	4.05	23.87	13.55	0.97
Dogana	99.5			Inl Struct									
Dogana	99	Max WS	DSA_200_cr	163.61	139.60	144.07		144.28	0.000541	2.03	80.41	27.13	0.38
Dogana	99	Max WS	DSA_100_cr	149.09	139.60	143.90		144.09	0.000538	1.97	75.72	26.84	0.37
Dogana	99	Max WS	DSA_30_cr	109.31	139.60	143.33		143.49	0.000564	1.80	60.67	25.89	0.38
Dogana	99	Max WS	DSA_20_cr	98.51	139.60	143.14		143.30	0.000587	1.76	55.93	25.58	0.38
Dogana	98	Max WS	DSA_200_cr	163.61	140.03	143.84		144.28	0.001740	2.93	55.87	20.95	0.57
Dogana	98	Max WS	DSA_100_cr	149.08	140.03	143.68		144.09	0.001727	2.84	52.51	20.58	0.57
Dogana	98	Max WS	DSA_30_cr	109.30	140.03	143.13		143.48	0.001821	2.62	41.65	19.32	0.57
Dogana	98	Max WS	DSA_20_cr	98.18	140.03	142.95		143.29	0.001860	2.57	38.25	18.65	0.57

HEC-RAS River: Dogana Reach: Dogana Profile: Max WS (Continued)

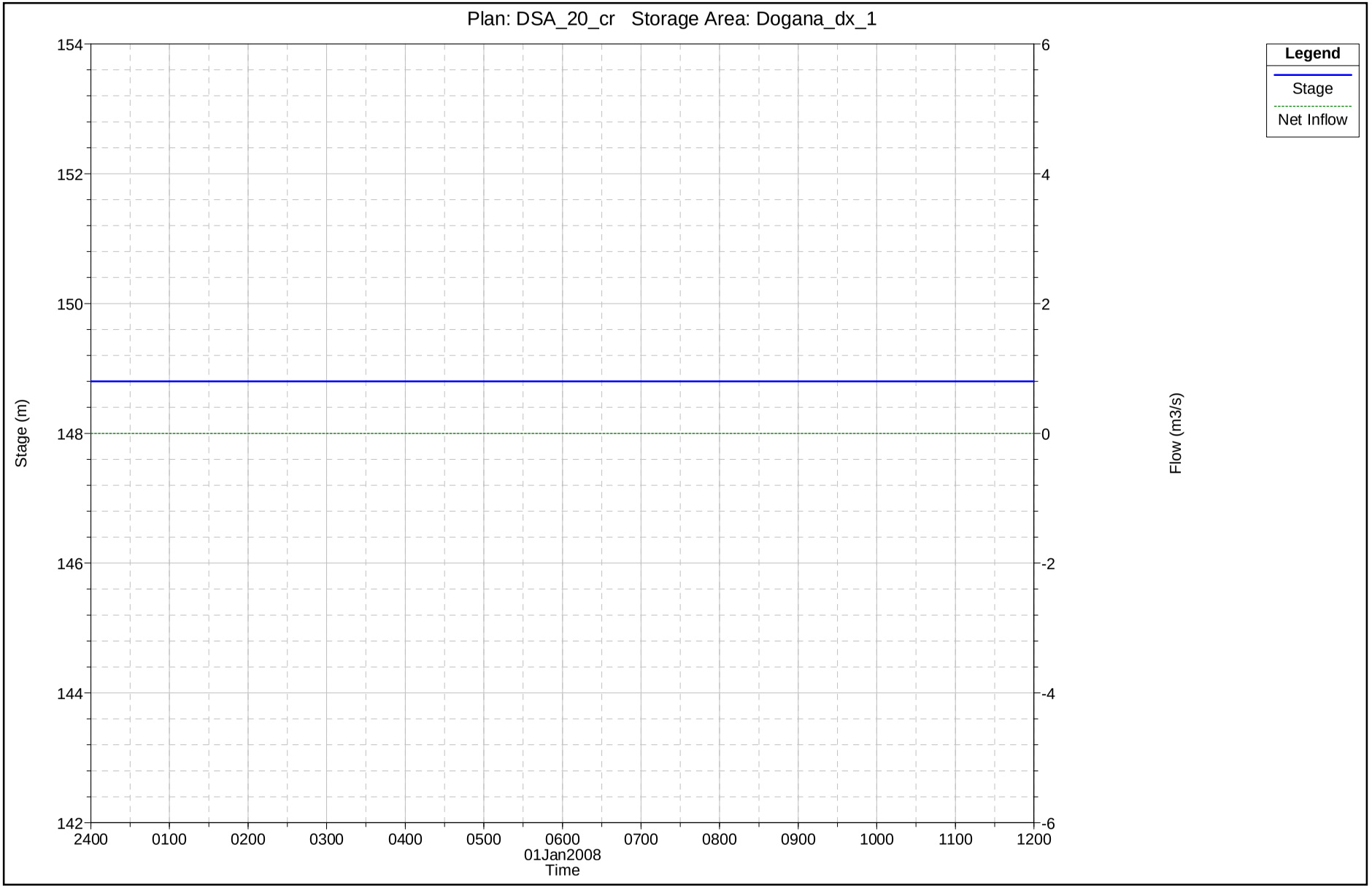
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	97	Max WS	DSA_200_cr	163.61	139.23	143.84		144.20	0.002038	2.63	62.15	23.93	0.52
Dogana	97	Max WS	DSA_100_cr	149.09	139.23	143.67		144.01	0.002038	2.56	58.13	23.28	0.52
Dogana	97	Max WS	DSA_30_cr	109.31	139.23	143.11		143.40	0.002152	2.39	45.64	21.15	0.52
Dogana	97	Max WS	DSA_20_cr	98.19	139.23	142.93		143.21	0.002248	2.35	41.77	20.62	0.53
Dogana	96	Max WS	DSA_200_cr	163.60	138.83	143.27		143.95	0.004626	3.67	44.62	18.79	0.76
Dogana	96	Max WS	DSA_100_cr	149.07	138.83	143.12		143.77	0.004532	3.56	41.90	18.17	0.75
Dogana	96	Max WS	DSA_30_cr	109.30	138.83	142.66		143.17	0.003700	3.18	34.40	14.97	0.67
Dogana	96	Max WS	DSA_20_cr	97.93	138.83	142.51		142.98	0.003584	3.04	32.18	14.63	0.65
Dogana	95	Max WS	DSA_200_cr	163.59	138.21	142.92		143.47	0.003367	3.30	49.59	19.46	0.66
Dogana	95	Max WS	DSA_100_cr	149.07	138.21	142.79		143.30	0.003228	3.16	47.16	19.16	0.64
Dogana	95	Max WS	DSA_30_cr	109.29	138.21	142.40		142.78	0.002811	2.75	39.78	18.10	0.59
Dogana	95	Max WS	DSA_20_cr	97.80	138.21	142.26		142.61	0.002644	2.62	37.35	17.42	0.57
Dogana	94	Max WS	DSA_200_cr	163.58	138.08	142.65		143.13	0.003099	3.07	53.37	22.42	0.63
Dogana	94	Max WS	DSA_100_cr	149.06	138.08	142.54		142.97	0.002886	2.93	50.86	21.63	0.61
Dogana	94	Max WS	DSA_30_cr	109.28	138.08	142.17		142.50	0.002403	2.52	43.34	20.14	0.55
Dogana	94	Max WS	DSA_20_cr	97.76	138.08	142.05		142.35	0.002269	2.39	40.93	19.80	0.53
Dogana	93	Max WS	DSA_200_cr	163.57	137.75	141.98	141.94	142.71	0.007796	3.80	43.10	27.15	0.96
Dogana	93	Max WS	DSA_100_cr	149.05	137.75	141.87	141.84	142.57	0.008121	3.72	40.06	26.86	0.97
Dogana	93	Max WS	DSA_30_cr	109.28	137.75	141.53	141.55	142.16	0.009561	3.50	31.18	25.98	1.02
Dogana	93	Max WS	DSA_20_cr	97.72	137.75	141.43	141.46	142.03	0.010218	3.44	28.44	25.71	1.04
Dogana	92	Max WS	DSA_200_cr	163.35	137.29	141.64		142.07	0.003172	2.88	56.64	27.16	0.64
Dogana	92	Max WS	DSA_100_cr	149.03	137.29	141.48		141.89	0.003374	2.85	52.22	26.71	0.65
Dogana	92	Max WS	DSA_30_cr	109.27	137.29	140.99		141.38	0.004285	2.77	39.42	25.36	0.71
Dogana	92	Max WS	DSA_20_cr	97.63	137.29	140.82		141.21	0.004864	2.78	35.11	24.79	0.75
Dogana	91	Max WS	DSA_200_cr	160.64	137.37	140.93		141.65	0.005030	3.74	42.90	19.51	0.81
Dogana	91	Max WS	DSA_100_cr	149.03	137.37	140.72		141.47	0.005784	3.85	38.75	18.87	0.86
Dogana	91	Max WS	DSA_30_cr	109.26	137.37	140.36		140.95	0.005215	3.39	32.20	17.58	0.80
Dogana	91	Max WS	DSA_20_cr	97.65	137.37	140.23		140.77	0.004975	3.25	30.03	16.84	0.78
Dogana	90	Max WS	DSA_200_cr	161.03	137.13	141.00		141.56	0.003041	3.32	48.56	17.27	0.63
Dogana	90	Max WS	DSA_100_cr	149.03	137.13	140.79		141.35	0.003221	3.31	45.02	16.85	0.65

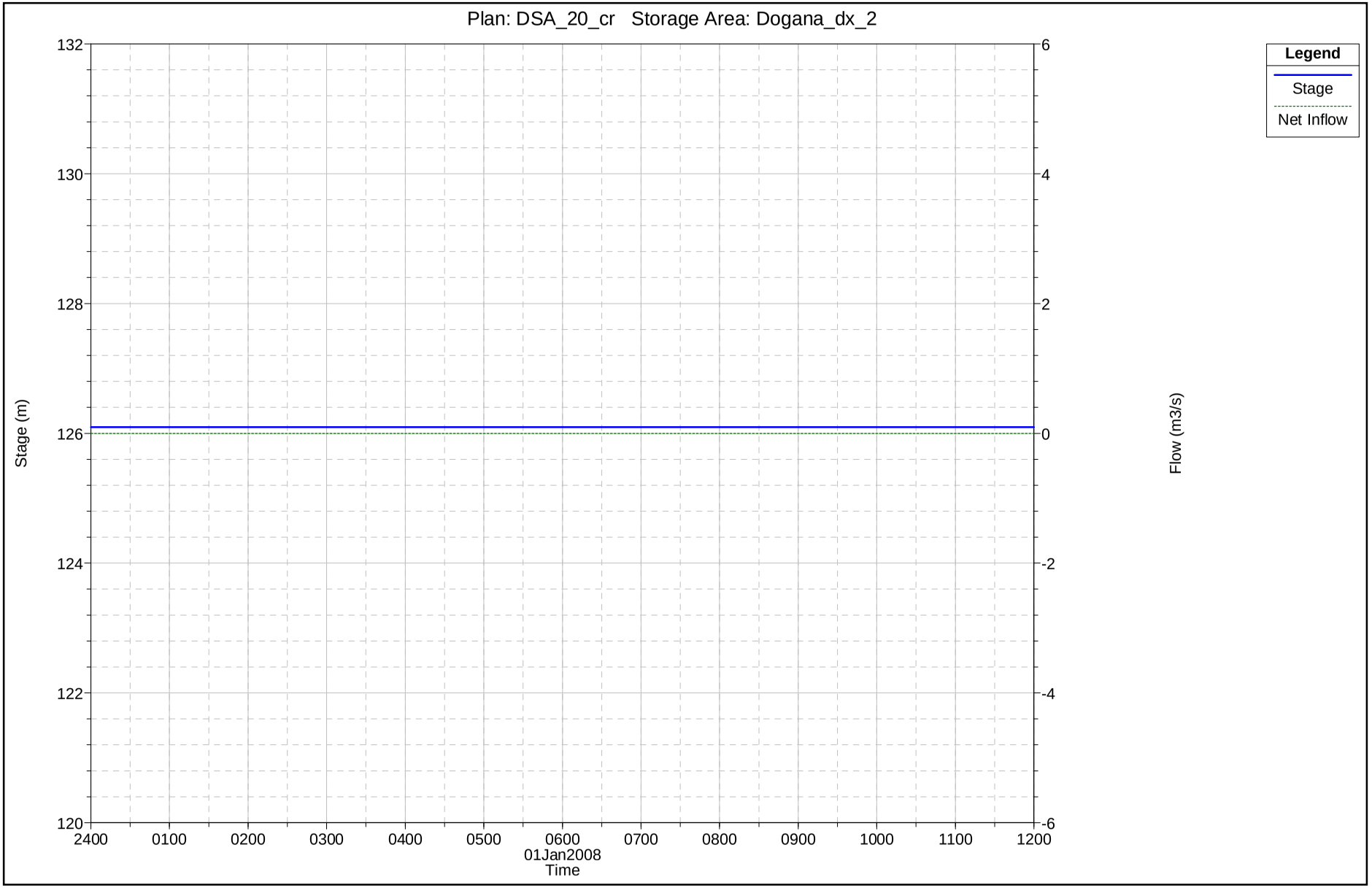
HEC-RAS River: Dogana Reach: Dogana Profile: Max WS (Continued)

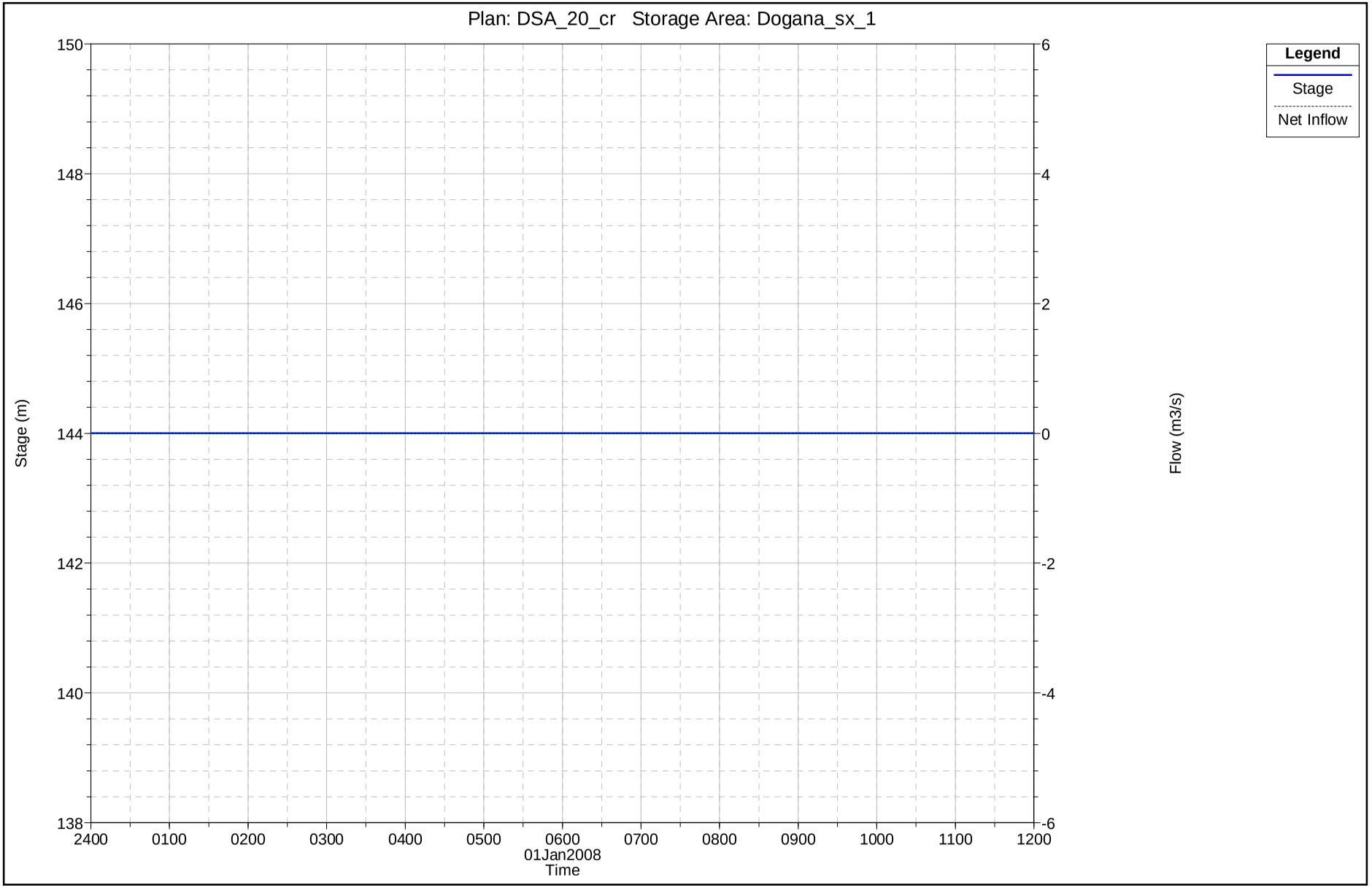
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	90	Max WS	DSA_30_cr	109.26	137.13	140.47		140.86	0.002465	2.75	39.72	16.20	0.56
Dogana	90	Max WS	DSA_20_cr	97.65	137.13	140.35		140.69	0.002270	2.58	37.77	15.96	0.54
Dogana	89.2	Max WS	DSA_200_cr	160.49	137.54	140.83		141.53	0.005864	3.70	43.32	22.54	0.85
Dogana	89.2	Max WS	DSA_100_cr	149.03	137.54	140.58		141.35	0.006505	3.91	38.12	19.56	0.89
Dogana	89.2	Max WS	DSA_30_cr	109.26	137.54	140.22		140.83	0.005428	3.45	31.69	16.97	0.81
Dogana	89.2	Max WS	DSA_20_cr	97.65	137.54	140.11		140.66	0.005007	3.27	29.87	16.26	0.77
Dogana	89	Max WS	DSA_200_cr	159.52	137.66	140.83	140.43	141.42	0.004660	3.40	46.97	22.89	0.76
Dogana	89	Max WS	DSA_100_cr	149.03	137.66	140.56	140.34	141.23	0.006084	3.65	40.87	21.92	0.85
Dogana	89	Max WS	DSA_30_cr	109.26	137.66	140.17	139.96	140.74	0.006244	3.34	32.76	20.57	0.84
Dogana	89	Max WS	DSA_20_cr	97.64	137.66	140.03	139.80	140.58	0.006417	3.26	29.92	19.79	0.85
Dogana	88.5			Bridge									
Dogana	88	Max WS	DSA_200_cr	165.31	137.66	140.56	140.48	141.39	0.007419	4.03	41.00	21.94	0.94
Dogana	88	Max WS	DSA_100_cr	145.54	137.66	140.21	140.32	141.17	0.010430	4.35	33.44	20.68	1.09
Dogana	88	Max WS	DSA_30_cr	107.75	137.66	139.64	139.94	140.76	0.014286	4.70	22.91	15.62	1.24
Dogana	88	Max WS	DSA_20_cr	95.96	137.66	139.54	139.78	140.56	0.013085	4.48	21.42	14.62	1.18
Dogana	87.3	Max WS	DSA_200_cr	165.24	137.66	140.55	140.48	141.39	0.007501	4.05	40.83	21.92	0.95
Dogana	87.3	Max WS	DSA_100_cr	145.54	137.66	140.20	140.31	141.17	0.010570	4.37	33.29	20.66	1.10
Dogana	87.3	Max WS	DSA_30_cr	107.75	137.66	139.63	139.94	140.77	0.014501	4.74	22.75	15.52	1.25
Dogana	87.3	Max WS	DSA_20_cr	95.96	137.66	139.53	139.78	140.56	0.013259	4.51	21.29	14.53	1.19
Dogana	87	Max WS	DSA_200_cr	165.17	137.66	140.55	140.48	141.39	0.007581	4.06	40.67	21.89	0.95
Dogana	87	Max WS	DSA_100_cr	145.54	137.66	140.19	140.32	141.17	0.010712	4.39	33.14	20.63	1.11
Dogana	87	Max WS	DSA_30_cr	107.67	137.66	139.62	139.94	140.77	0.014702	4.77	22.59	15.42	1.26
Dogana	87	Max WS	DSA_20_cr	95.96	137.66	139.52	139.78	140.57	0.013439	4.54	21.15	14.43	1.20
Dogana	80	Max WS	DSA_200_cr	52.08	134.80	140.36	136.13	140.39	0.000167	0.76	68.72	21.23	0.13
Dogana	80	Max WS	DSA_100_cr	50.01	134.80	140.01	136.10	140.04	0.000204	0.81	61.52	19.53	0.15
Dogana	80	Max WS	DSA_30_cr	50.00	134.80	139.21	136.10	139.26	0.000278	1.02	49.18	12.18	0.16
Dogana	80	Max WS	DSA_20_cr	50.03	134.80	139.29	136.10	139.34	0.000265	1.00	50.16	12.34	0.16

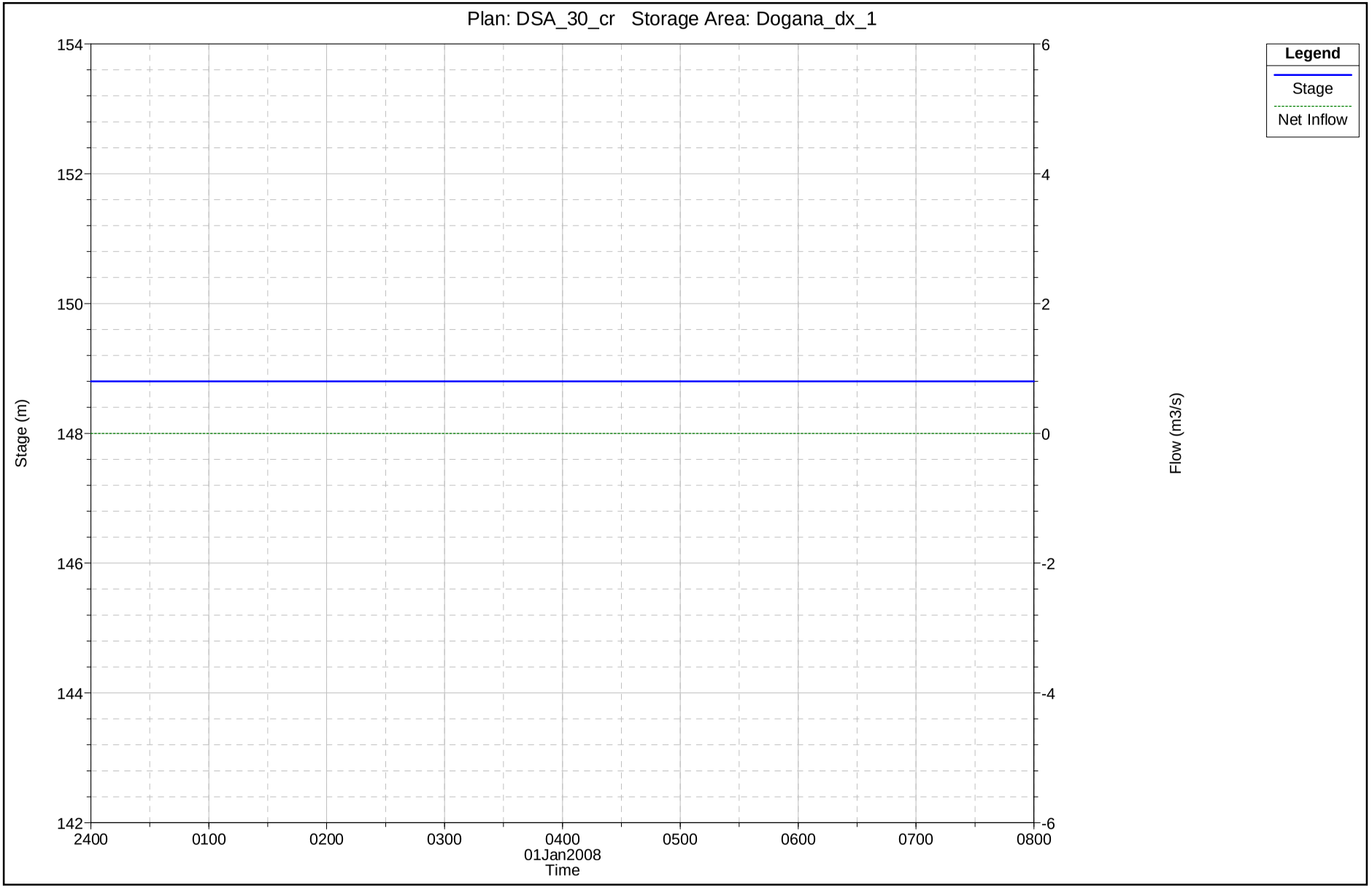
HEC-RAS Profile: Max WS

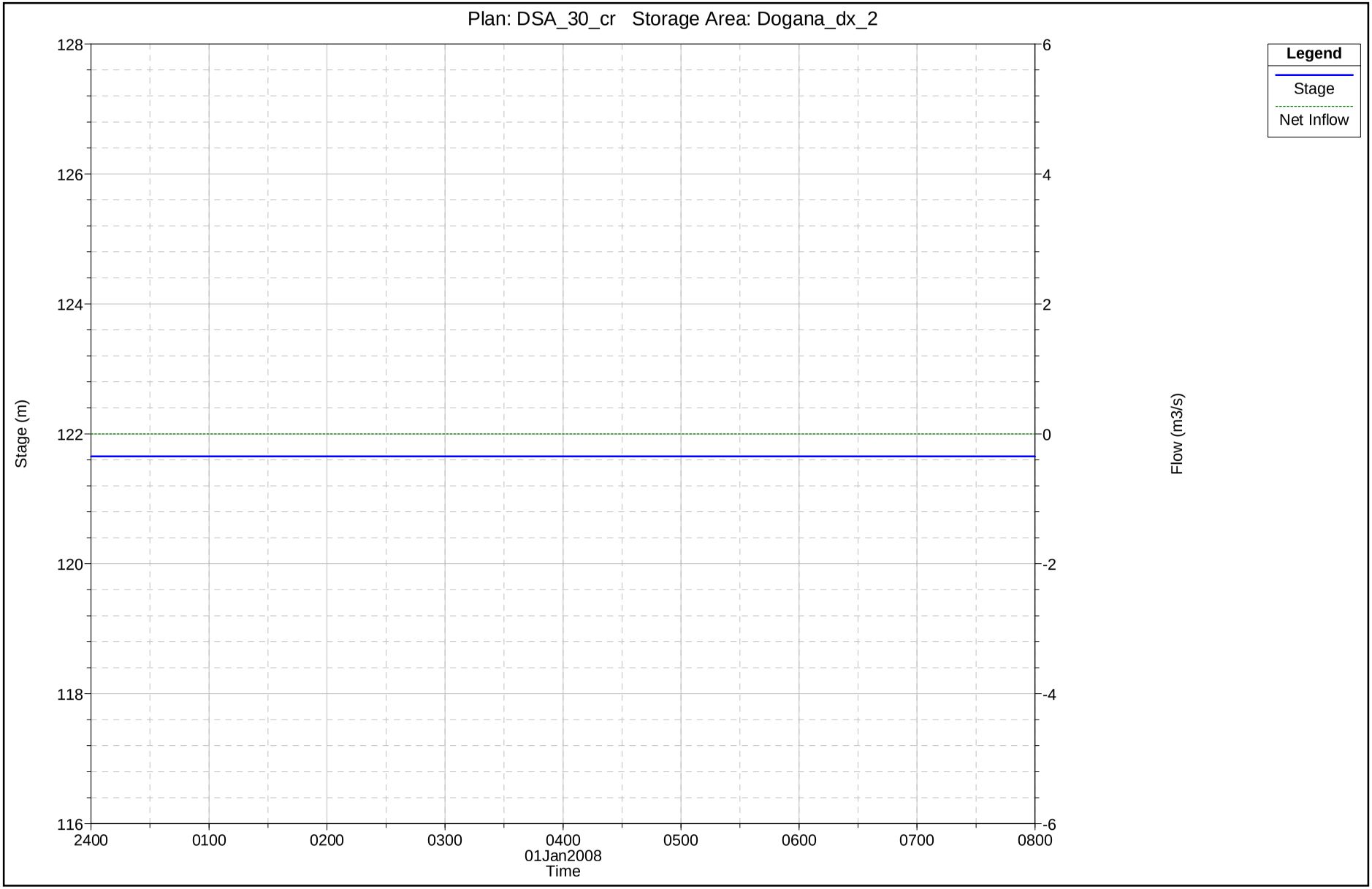
Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
Dogana_dx_1	Max WS	DSA_200_cr	149.55	148.80	-0.56	29.42	24.24
Dogana_dx_1	Max WS	DSA_100_cr	149.00	148.80	0.00	33.81	6.83
Dogana_dx_1	Max WS	DSA_30_cr	148.80	148.80	0.00	33.81	0.00
Dogana_dx_1	Max WS	DSA_20_cr	148.80	148.80	0.00	33.81	0.00
Dogana_dx_2	Max WS	DSA_200_cr	122.10	142.50	2.82	14.00	-285.61
Dogana_dx_2	Max WS	DSA_100_cr	121.65	142.50	0.02	14.00	-291.84
Dogana_dx_2	Max WS	DSA_30_cr	121.65	142.50	0.00	14.00	-291.85
Dogana_dx_2	Max WS	DSA_20_cr	126.10	142.50	0.00	14.00	-229.66
Dogana_sx_1	Max WS	DSA_200_cr	144.04	144.00	7.77	500.00	21.49
Dogana_sx_1	Max WS	DSA_100_cr	144.00	144.00	1.22	500.00	1.37
Dogana_sx_1	Max WS	DSA_30_cr	144.00	144.00	0.00	500.00	0.00
Dogana_sx_1	Max WS	DSA_20_cr	144.00	144.00	0.00	500.00	0.00

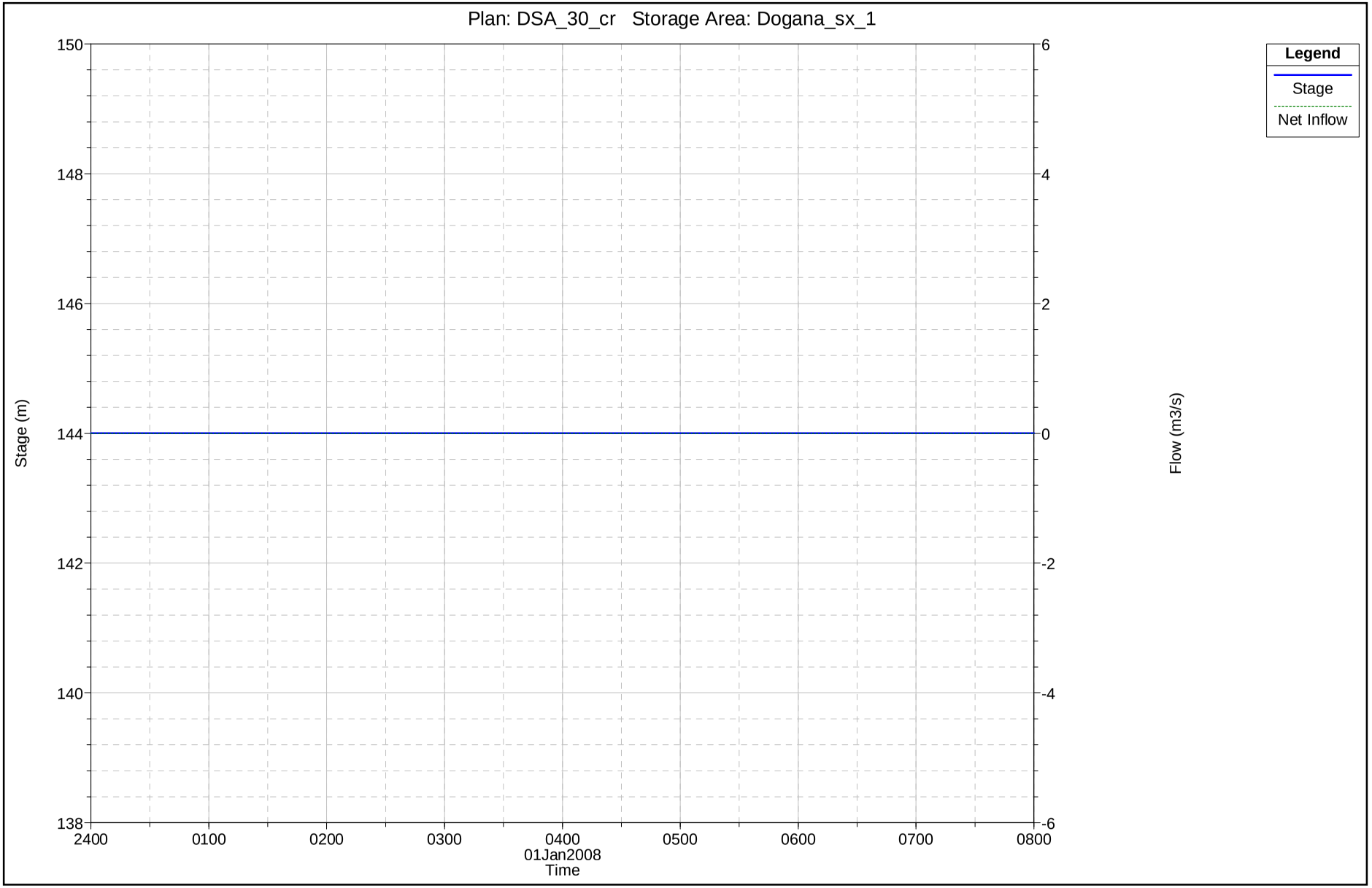

Plan: DSA_20_cr Storage Area: Dogana_dx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
01Jan2008
Time

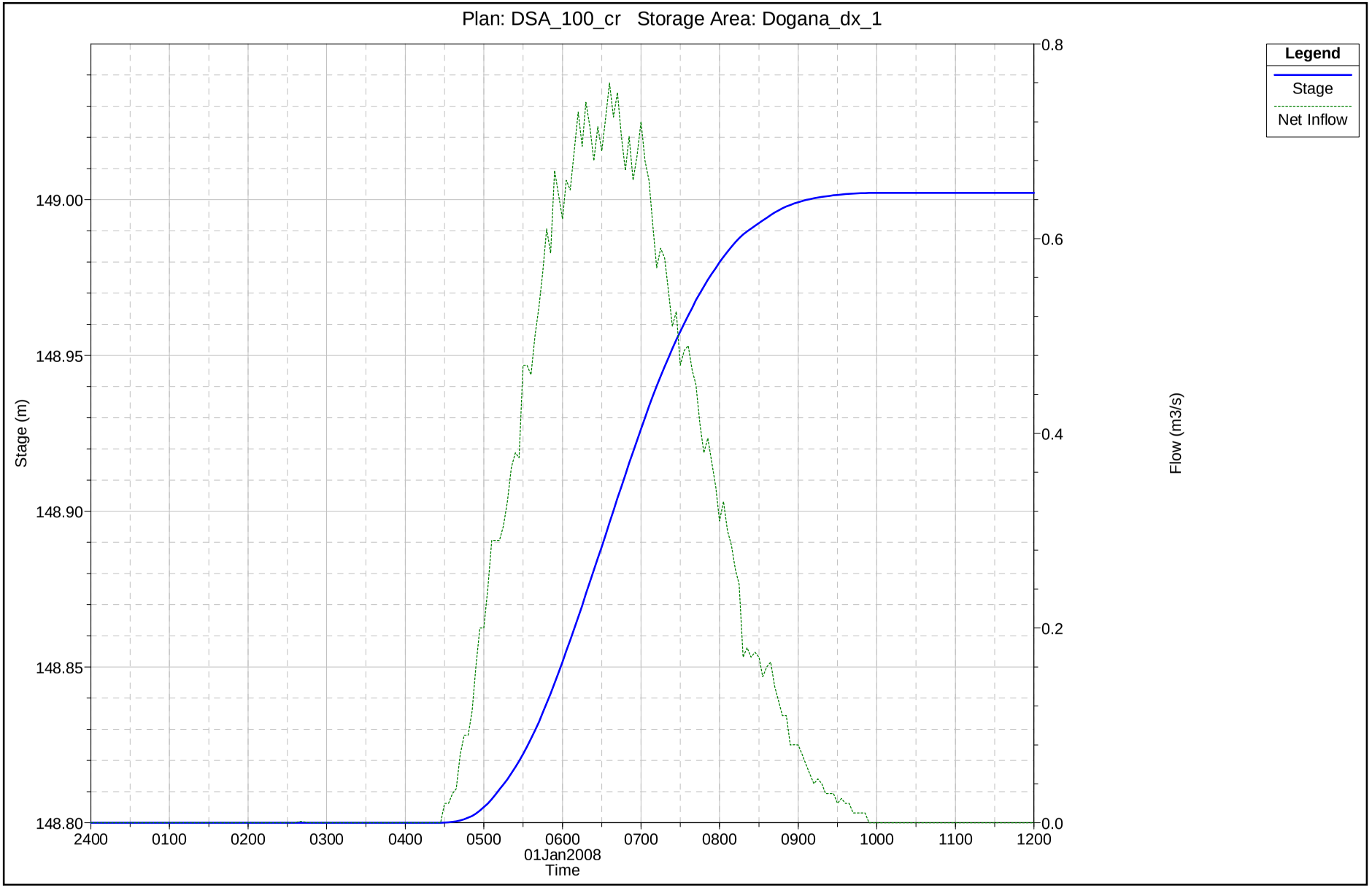

Plan: DSA_20_cr Storage Area: Dogana_dx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
132
130
128
126
124
122
120
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
01Jan2008
Time

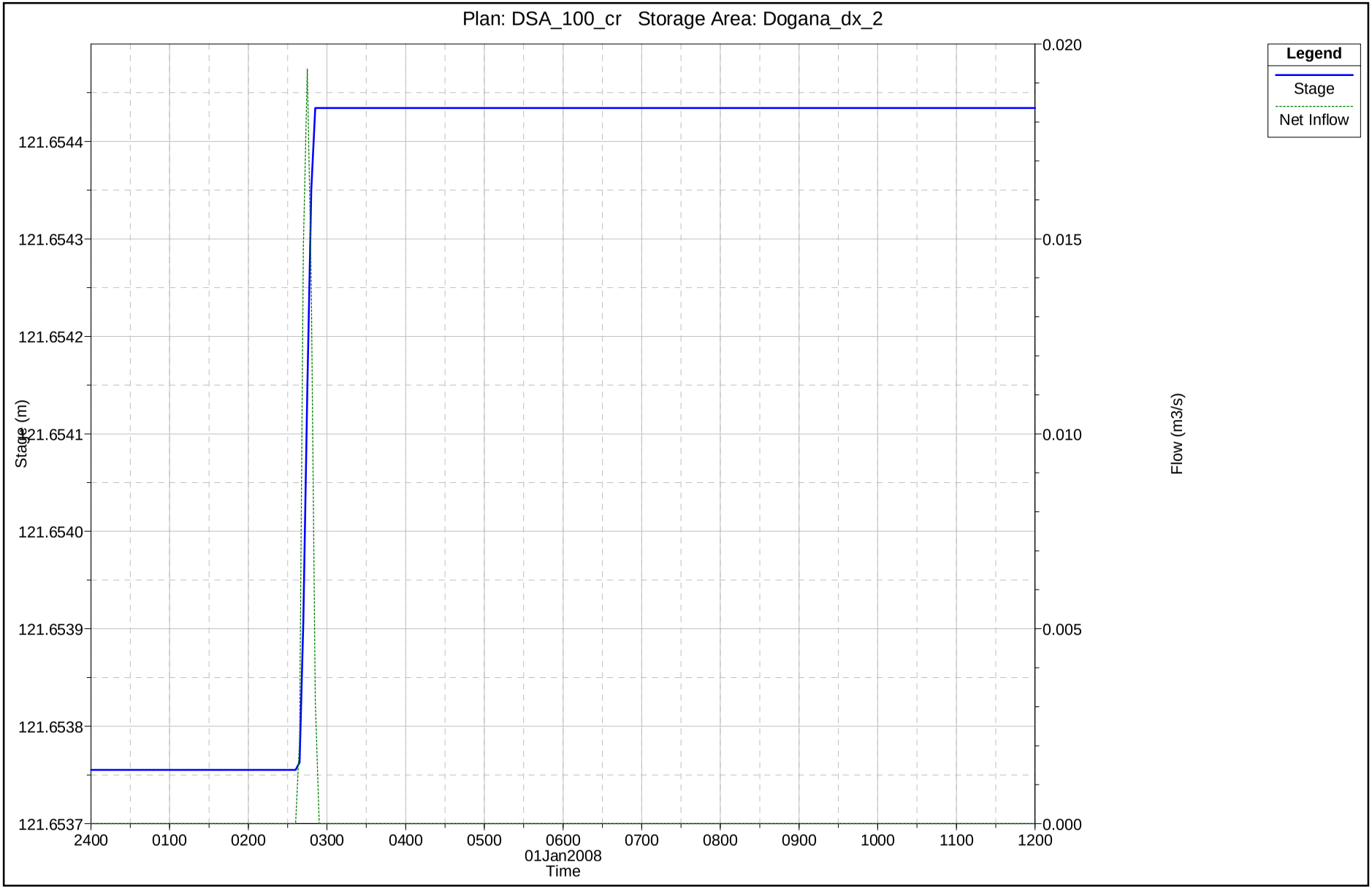

Plan: DSA_20_cr Storage Area: Dogana_sx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
150
148
146
144
142
140
138
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
01Jan2008
Time

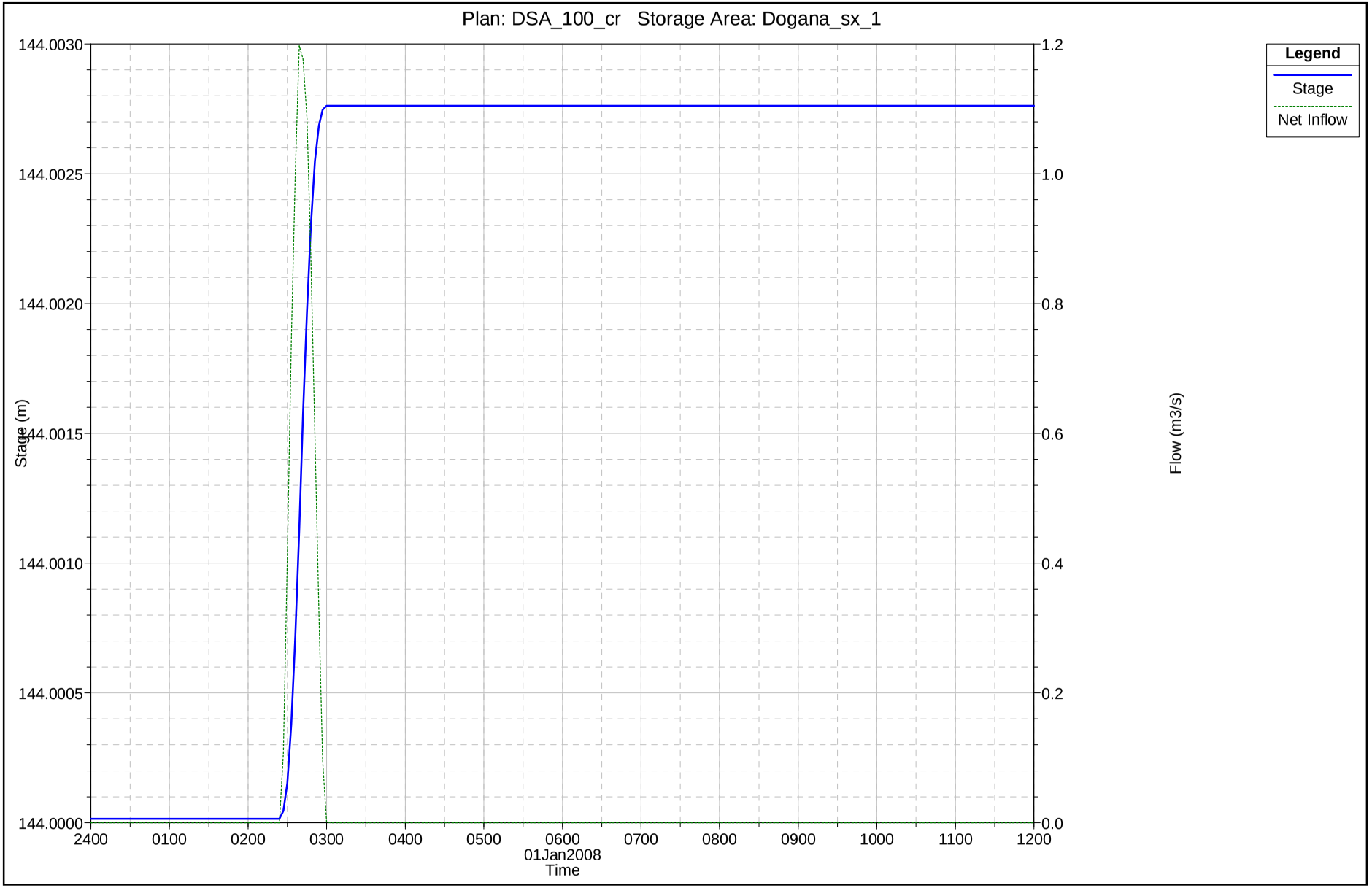

Plan: DSA_30_cr Storage Area: Dogana_dx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
0800
01Jan2008
Time

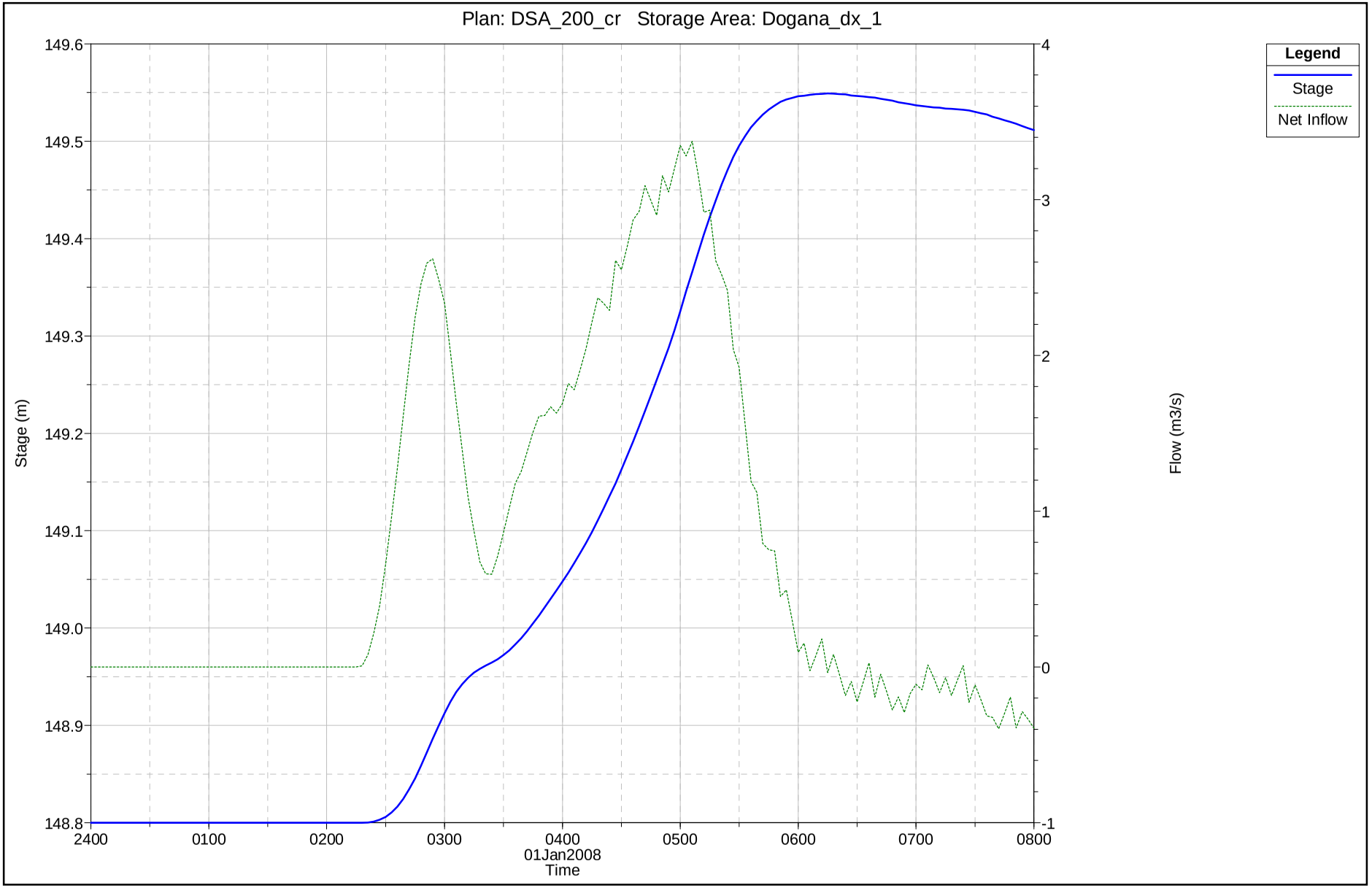

Plan: DSA_30_cr Storage Area: Dogana_dx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
128
126
124
122
120
118
116
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
0800
01Jan2008
Time

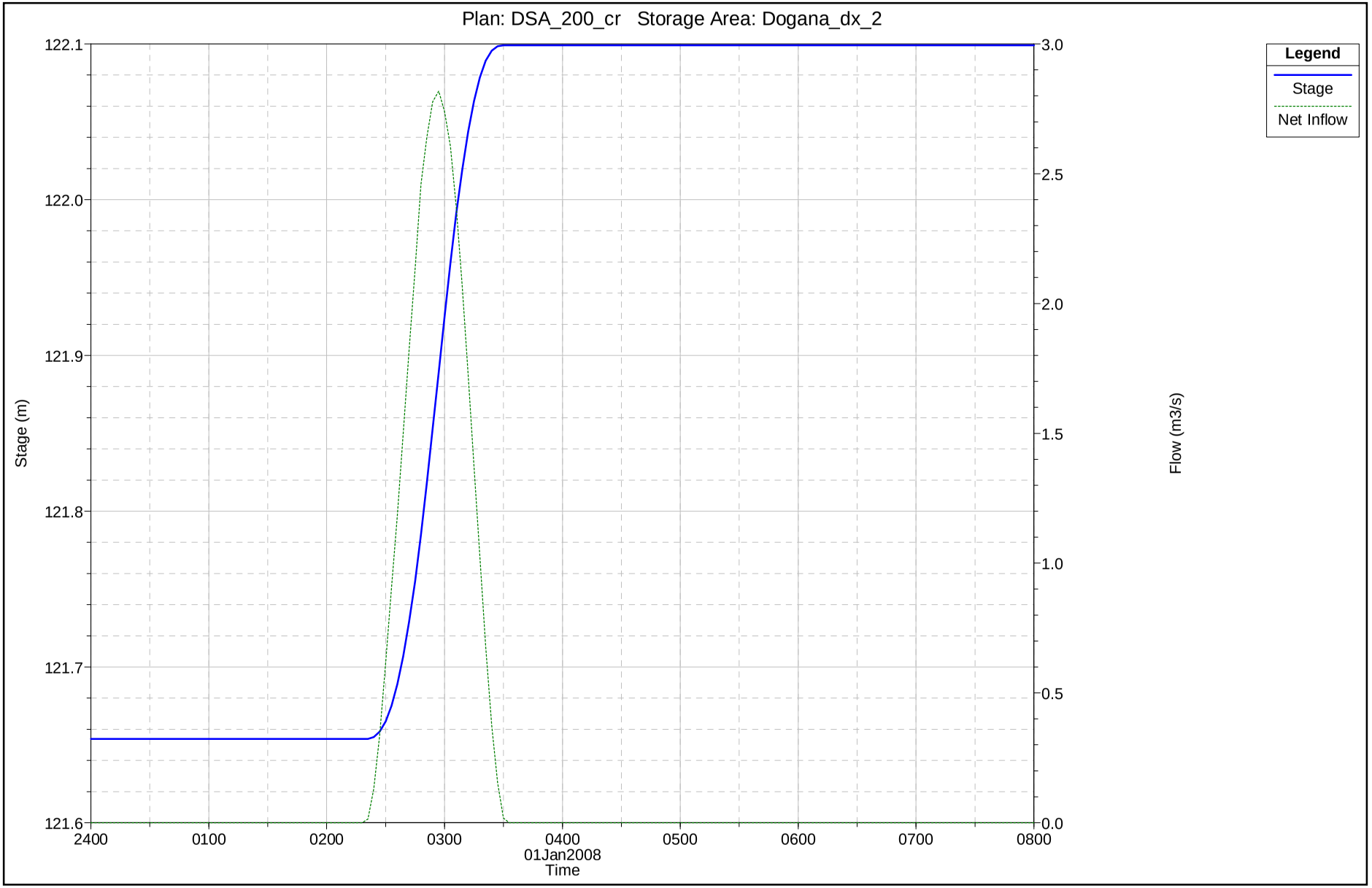

Plan: DSA_30_cr Storage Area: Dogana_sx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
150
148
146
144
142
140
138
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
0500
0600
0700
0800
01Jan2008
Time

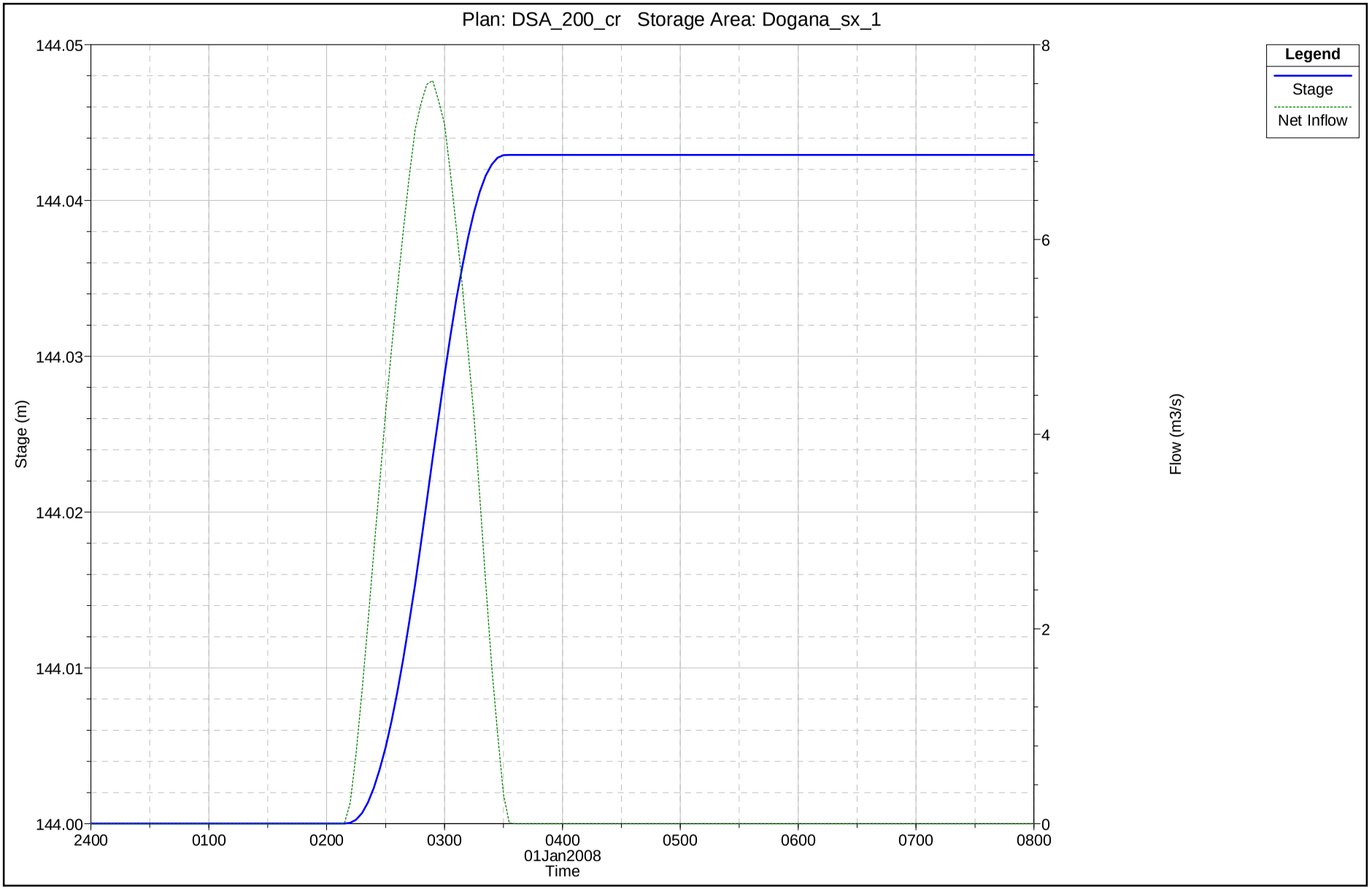

Plan: DSA_100_cr Storage Area: Dogana_dx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
149.00
148.95
148.90
148.85
148.80
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
01Jan2008
Time

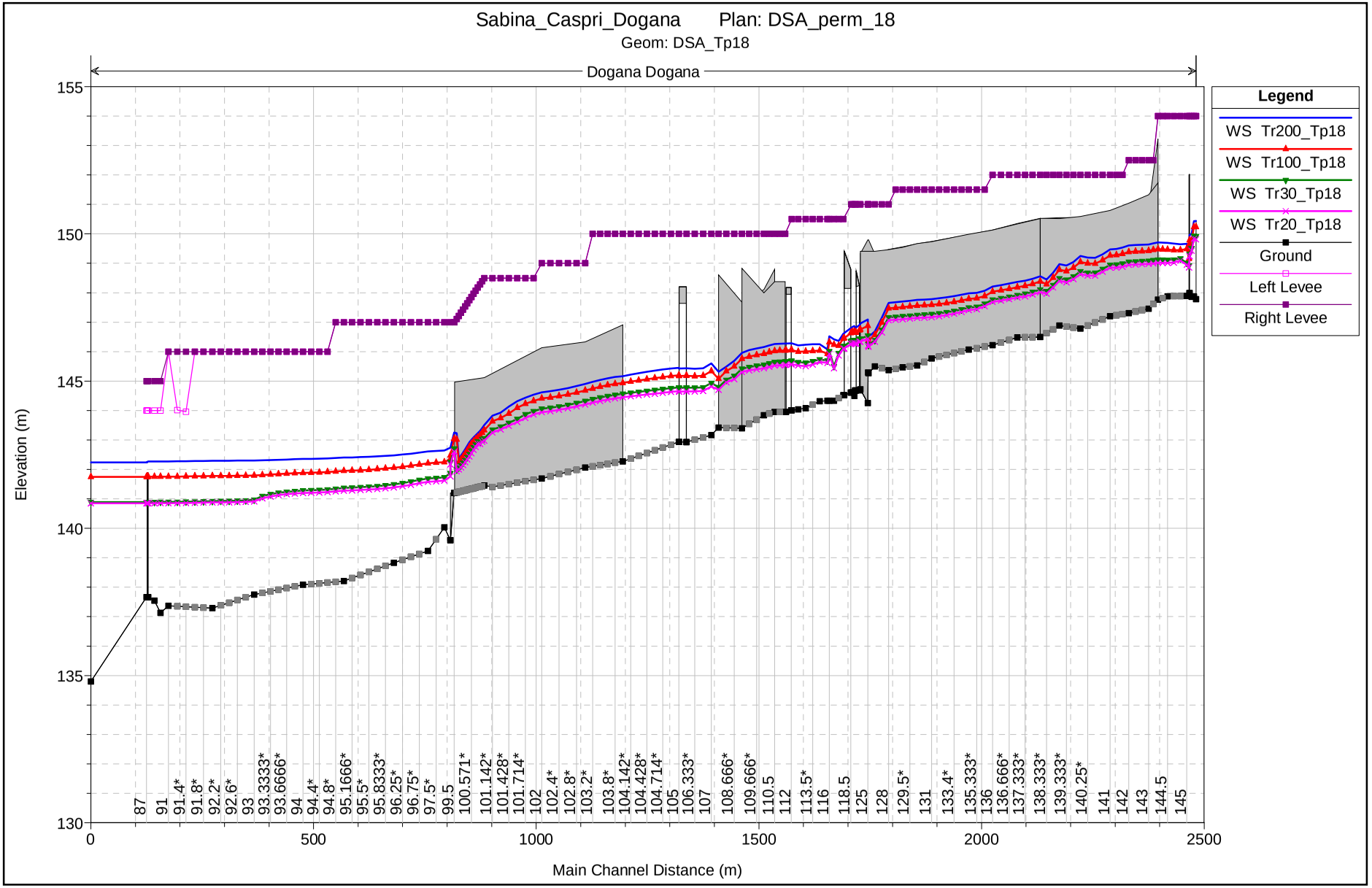

Plan: DSA_100_cr Storage Area: Dogana_dx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
121.6544
121.6543
121.6542
121.6541
121.6540
121.6539
121.6538
121.6537
0.020
0.015
0.010
0.005
0.000
2400
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
01Jan2008
Time

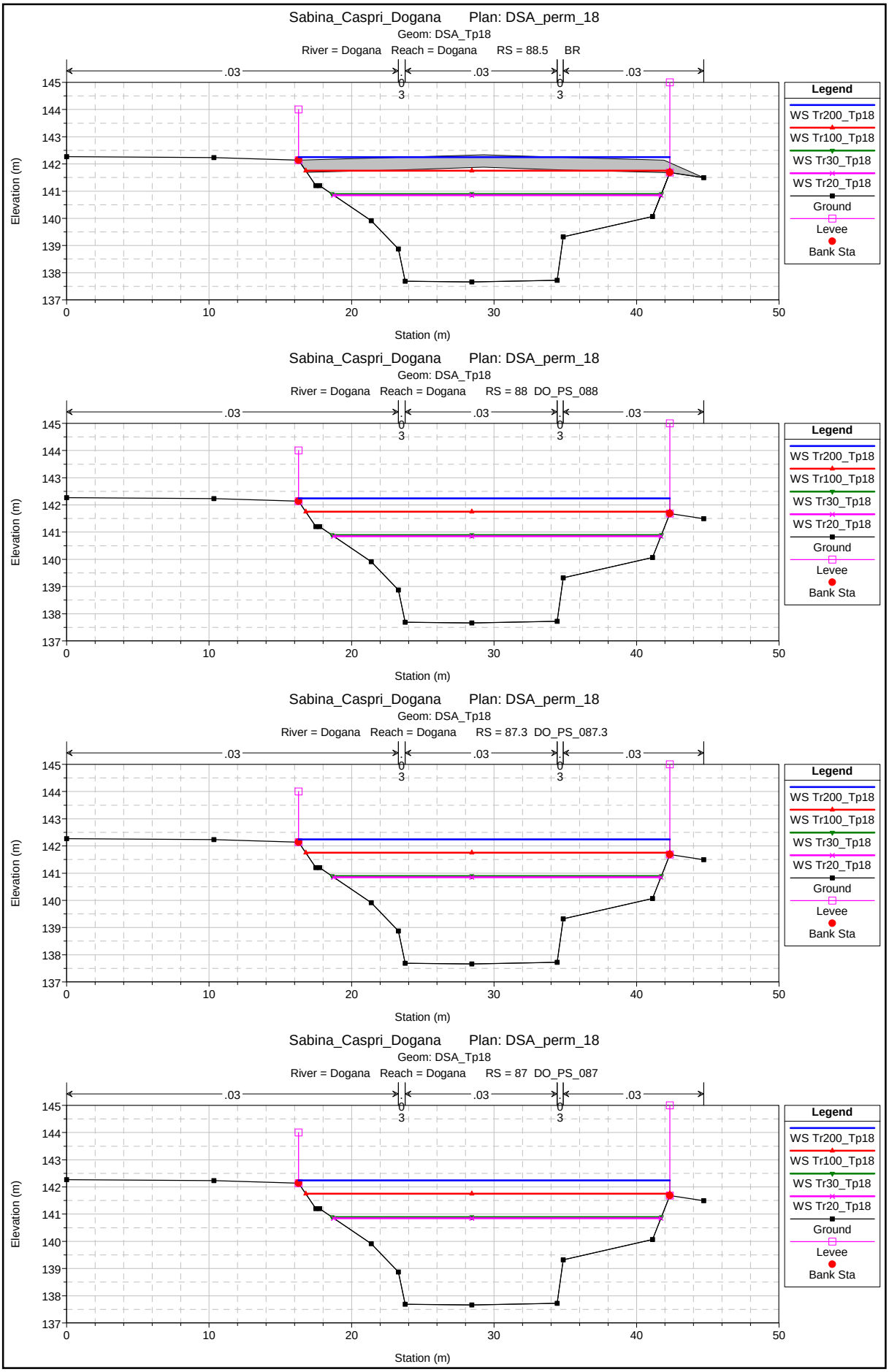

Plan: DSA_100_cr Storage Area: Dogana_sx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
144.0030
144.0025
144.0020
144.0015
144.0010
144.0005
144.0000
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
01Jan2008
Time


Plan: DSA_200_cr Storage Area: Dogana_dx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
149.6
149.5
149.4
149.3
149.2
149.1
149.0
148.9
148.8
4
3
2
1
0
-1
2400
0100
0200
0300
0400
0500
0600
0700
0800
01Jan2008
Time

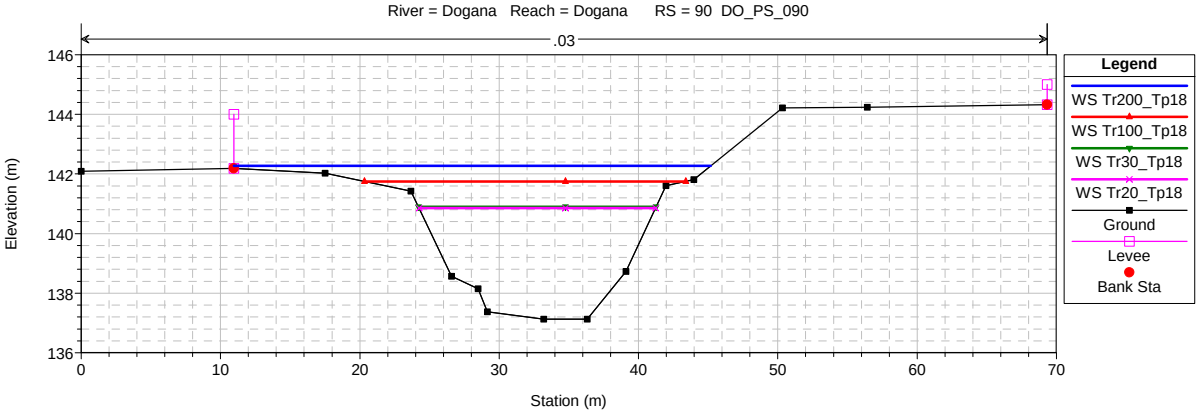

Plan: DSA_200_cr Storage Area: Dogana_dx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
122.1
122.0
121.9
121.8
121.7
121.6
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2400
0100
0200
0300
0400
0500
0600
0700
0800
01Jan2008
Time


Plan: DSA_200_cr Storage Area: Dogana_sx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
144.05
144.04
144.03
144.02
144.01
144.00
8
6
4
2
0
2400
0100
0200
0300
0400
0500
0600
0700
0800
01Jan2008
Time

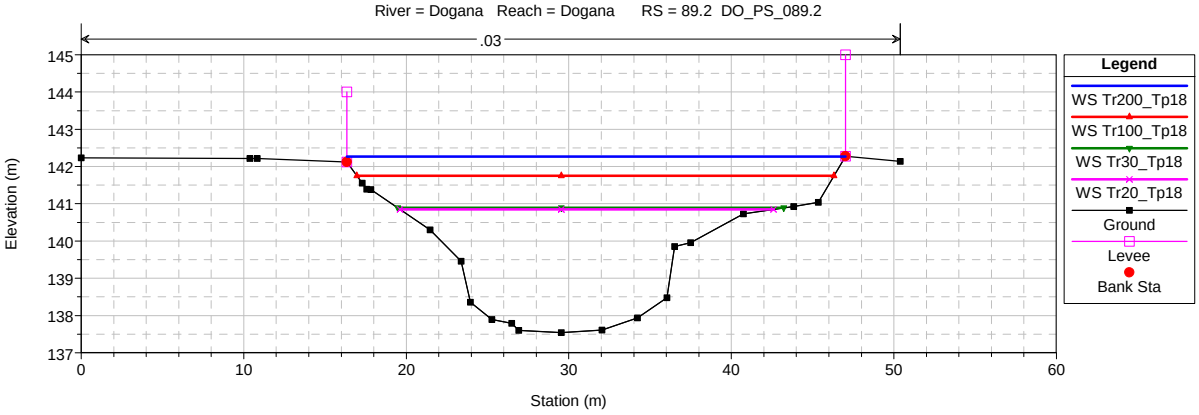

Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
Dogana Dogana
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
155
150
145
140
135
130
0
500
1000
1500
2000
2500
87
91
91.4*
91.8*
92.2*
92.6*
93
93.3333*
93.6666*
94
94.4*
94.8*
95.1666*
95.5*
95.8333*
96.25*
96.75*
97.5*
99.5
100.571*
101.142*
101.428*
101.714*
102
102.4*
102.8*
103.2*
103.8*
104.142*
104.428*
104.714*
105
106.333*
107
108.666*
109.666*
110.5
112
113.5*
116
118.5
125
128
129.5*
131
133.4*
135.333*
136
136.666*
137.333*
138.333*
139.333*
140.25*
141
142
143
144.5
145


Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 88.5 BR
.03
.03
.03
0
3
0
3
Elevation (m)
145
144
143
142
141
140
139
138
137
0
10
20
30
40
50
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 88 DO_PS_088
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 87.3 DO_PS_087.3
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 87 DO_PS_087

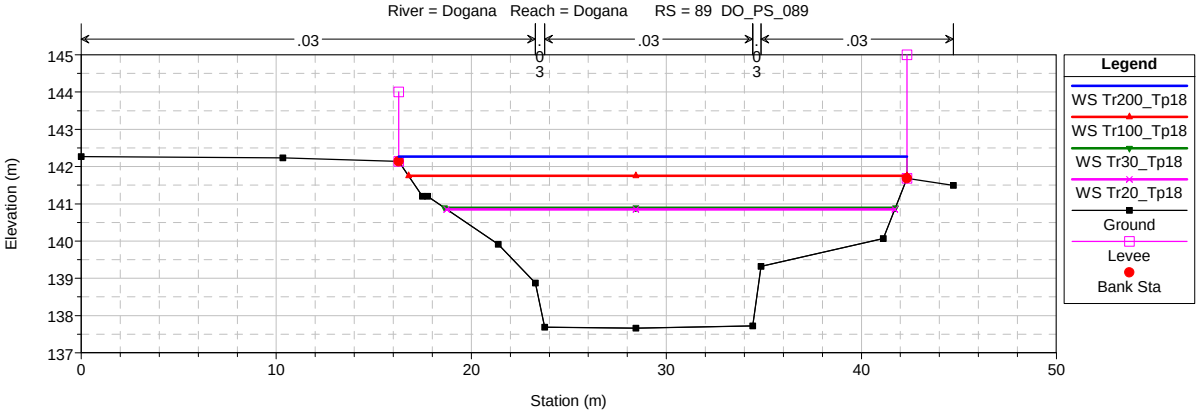
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 90 DO_PS_090



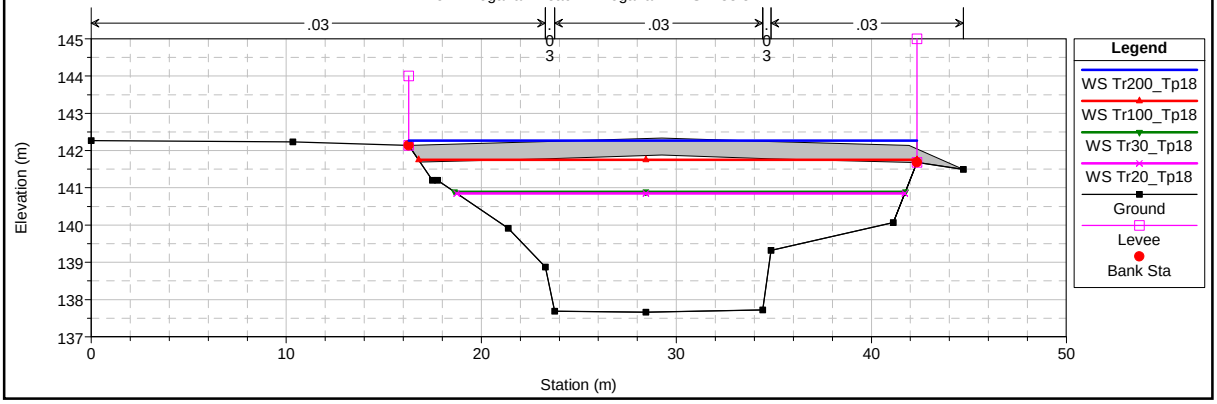
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 89.2 DO_PS_089.2



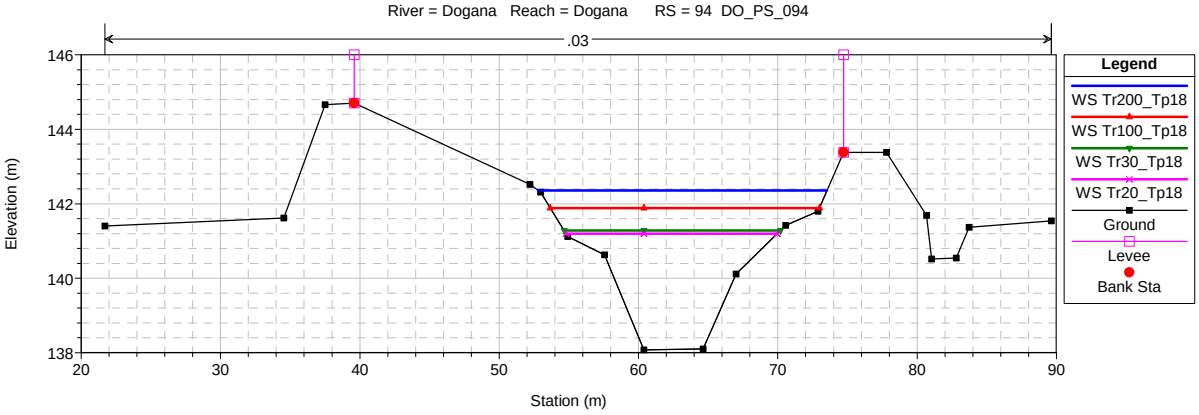
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 89 DO_PS_089



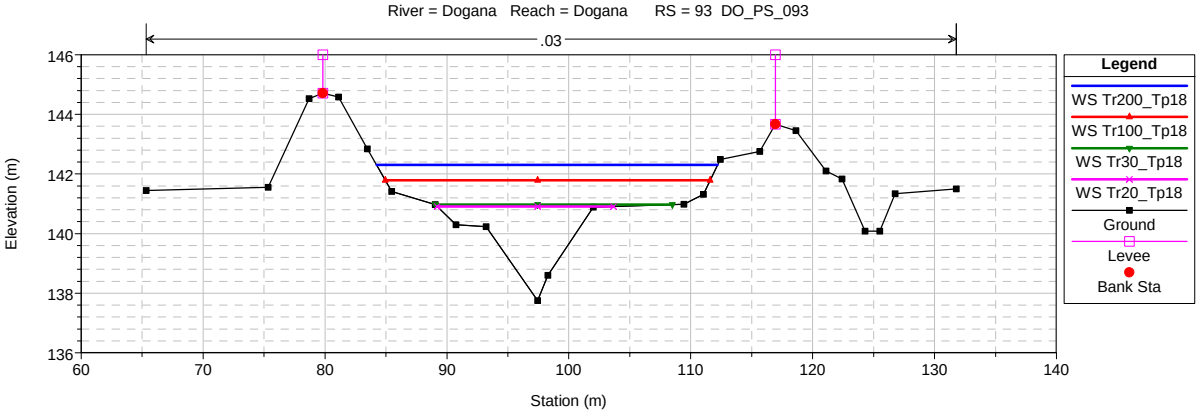
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 88.5 BR



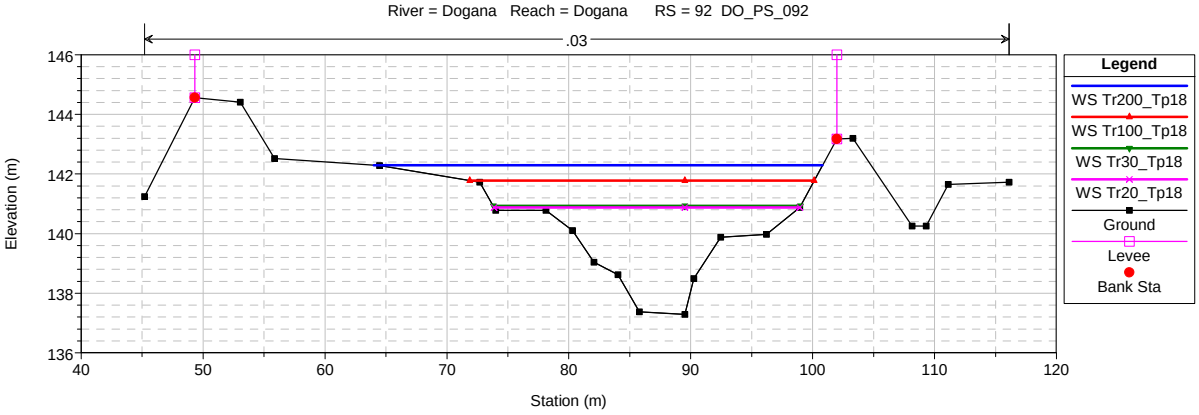
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 94 DO_PS_094



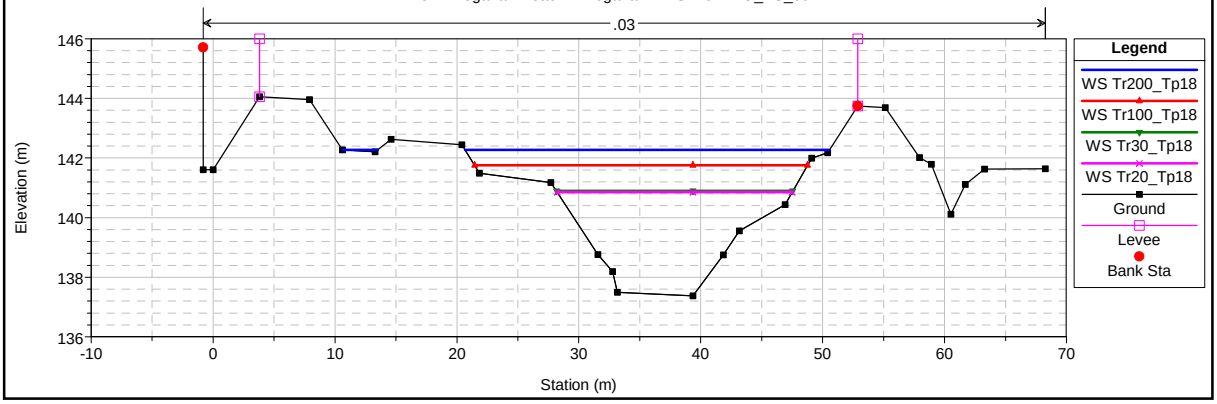
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 93 DO_PS_093

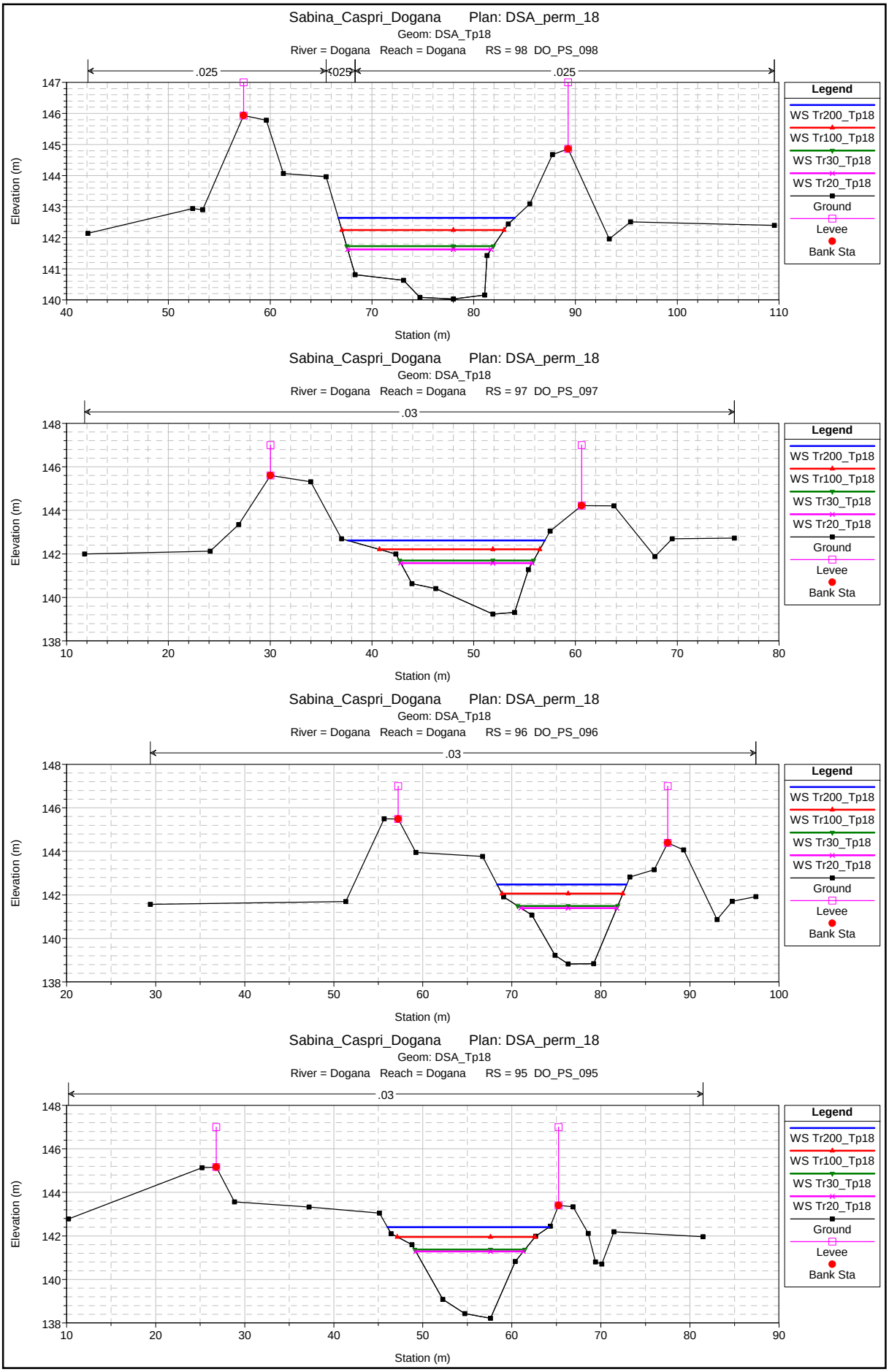


Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 92 DO_PS_092



Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 91 DO_PS_091

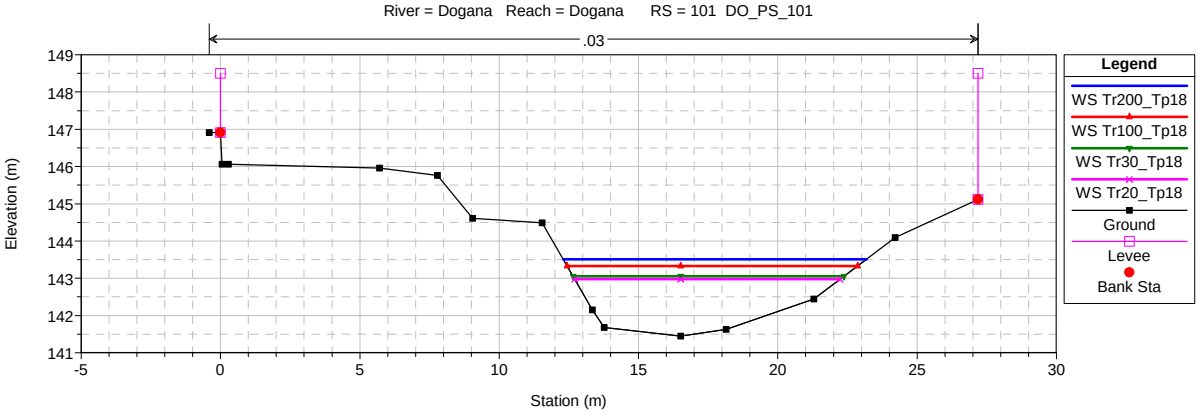



Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 98 DO_PS_098
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 97 DO_PS_097
.03
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 96 DO_PS_096
.03
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 95 DO_PS_095
.03
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta

Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

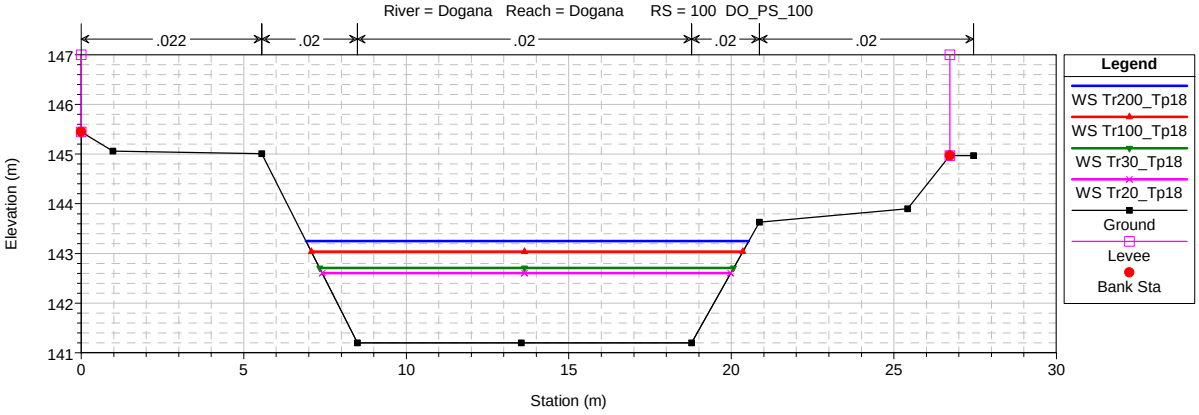
River = Dogana Reach = Dogana RS = 101 DO_PS_101



Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

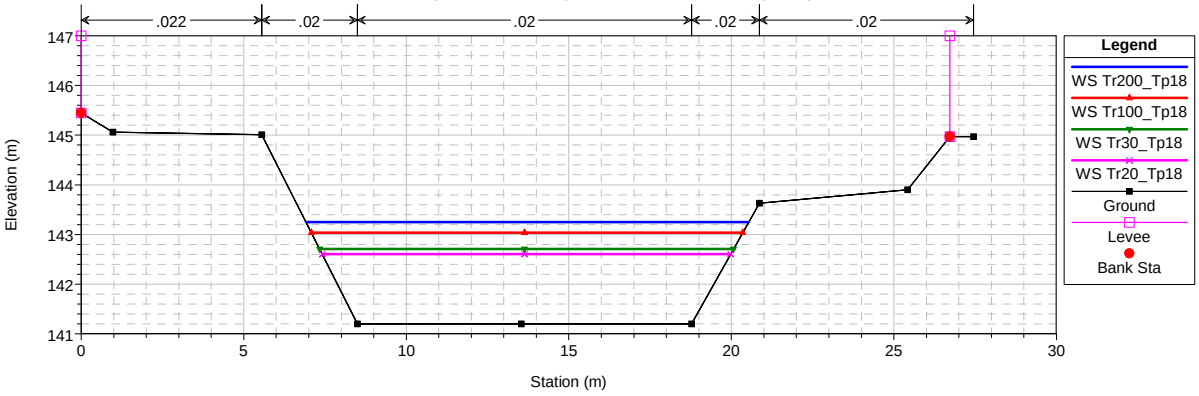
River = Dogana Reach = Dogana RS = 100 DO_PS_100



Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

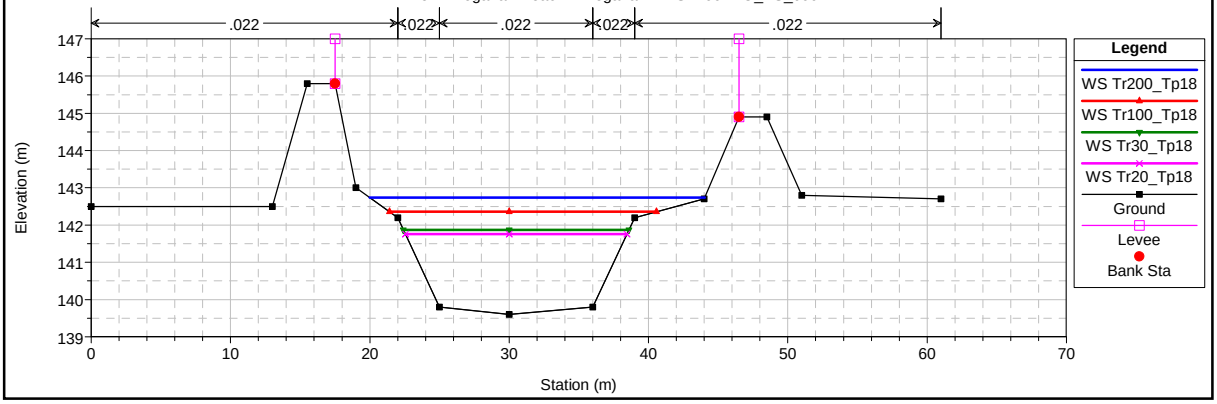
River = Dogana Reach = Dogana RS = 99.5 IS Briglia dogana



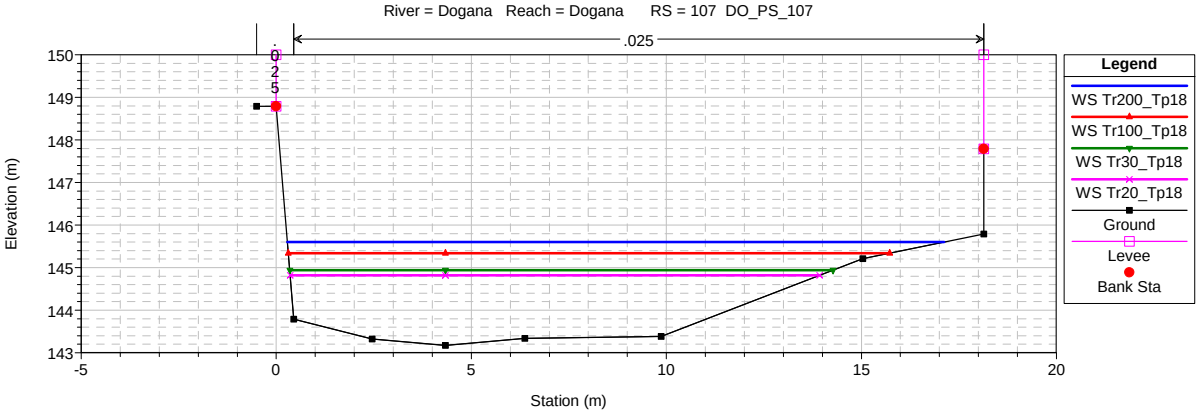
Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

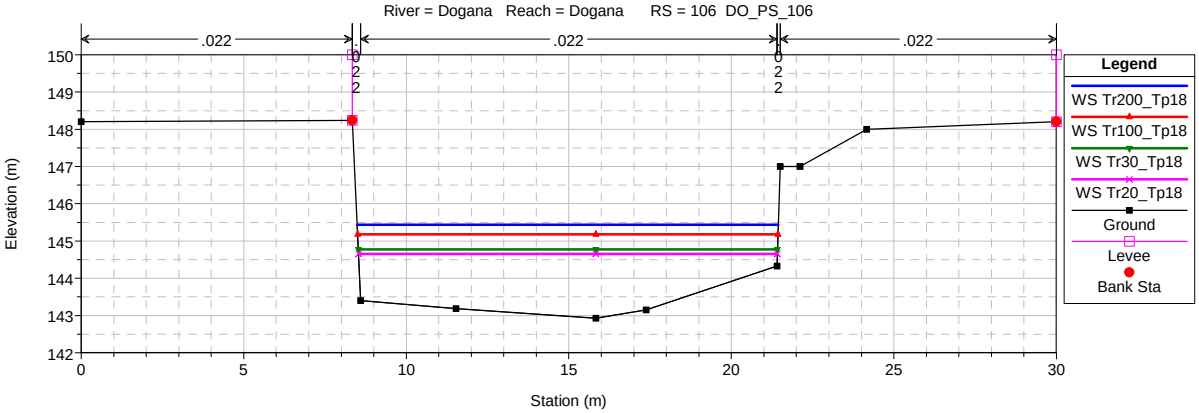
River = Dogana Reach = Dogana RS = 99 DO_PS_099



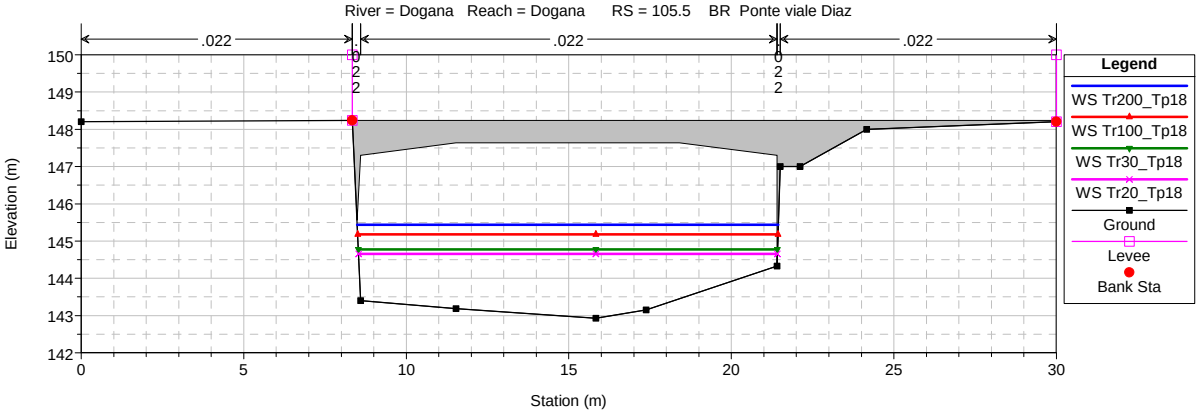
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 107 DO_PS_107



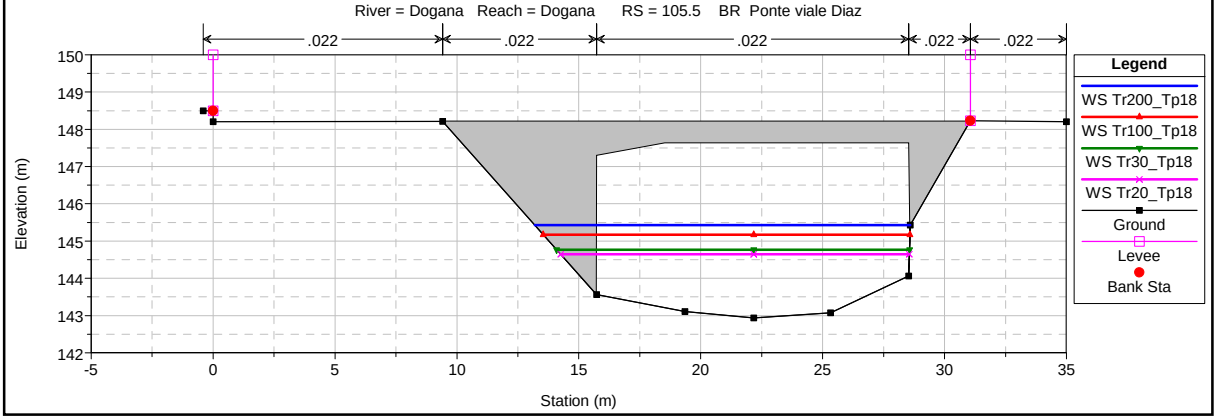
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 106 DO_PS_106

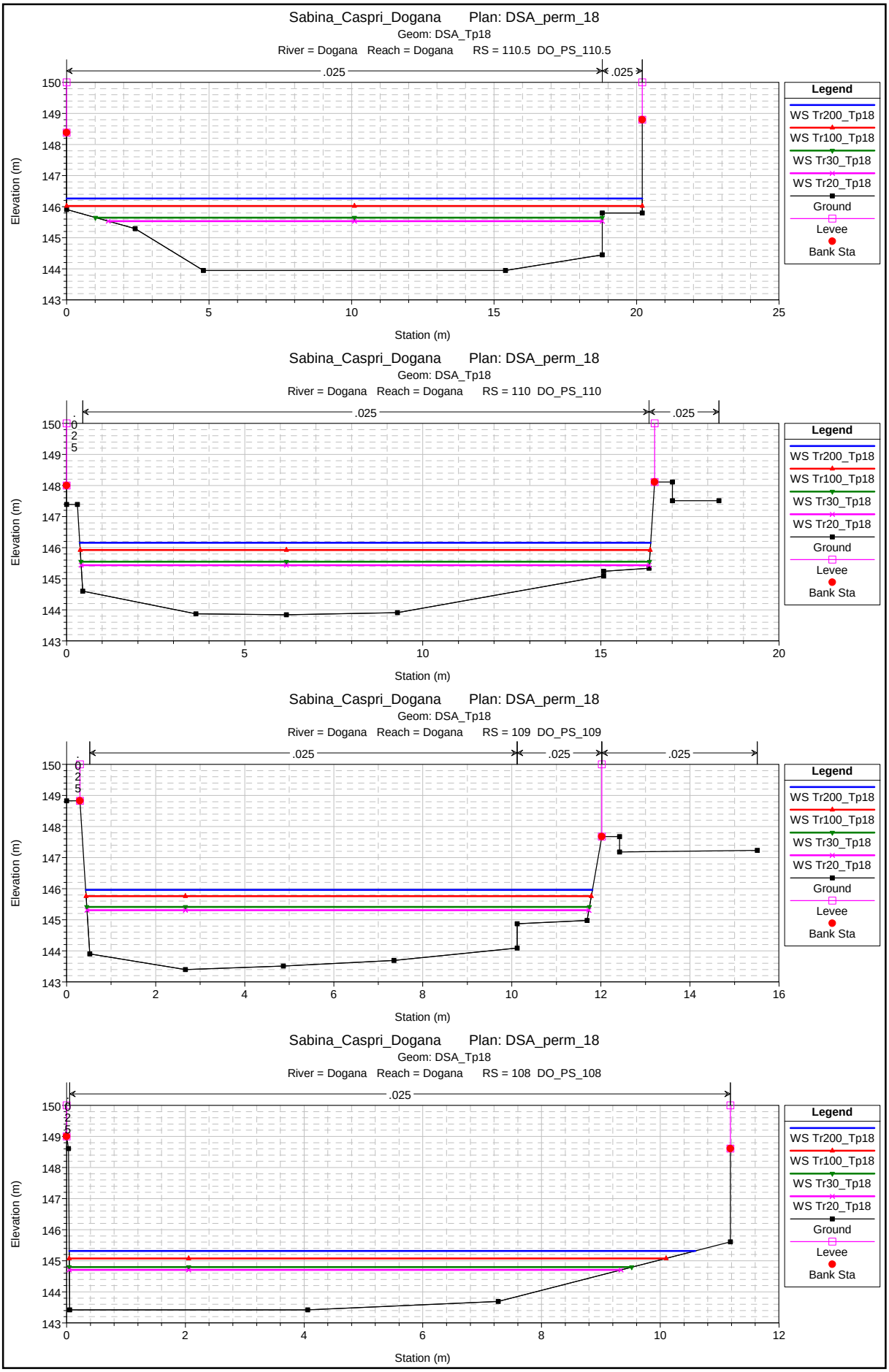


Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 105.5 BR Ponte viale Diaz



Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 105.5 BR Ponte viale Diaz

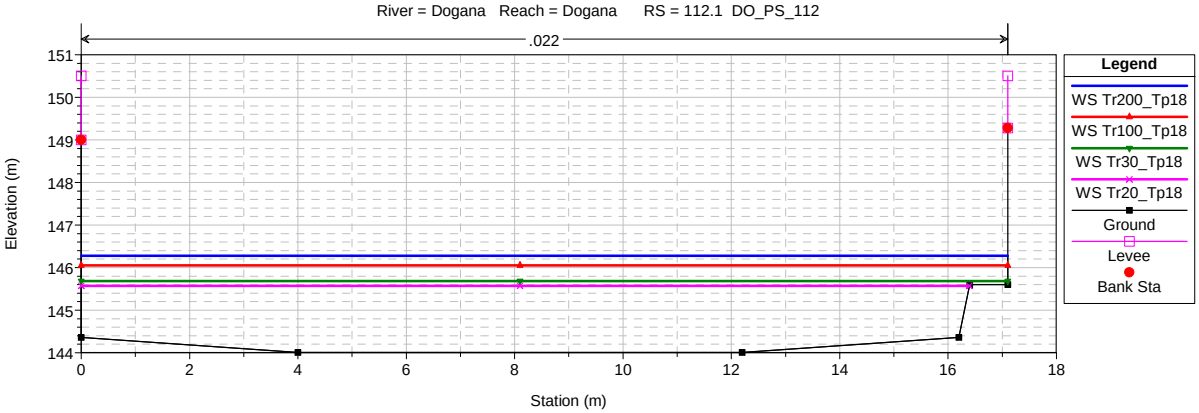



Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 110.5 DO_PS_110.5
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 110 DO_PS_110
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 109 DO_PS_109
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 108 DO_PS_108
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta

Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

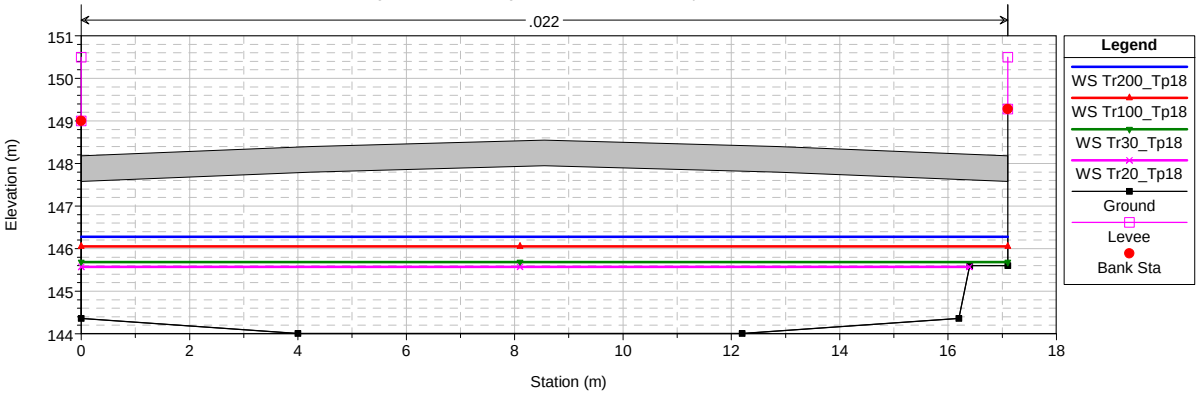
River = Dogana Reach = Dogana RS = 112.1 DO_PS_112



Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

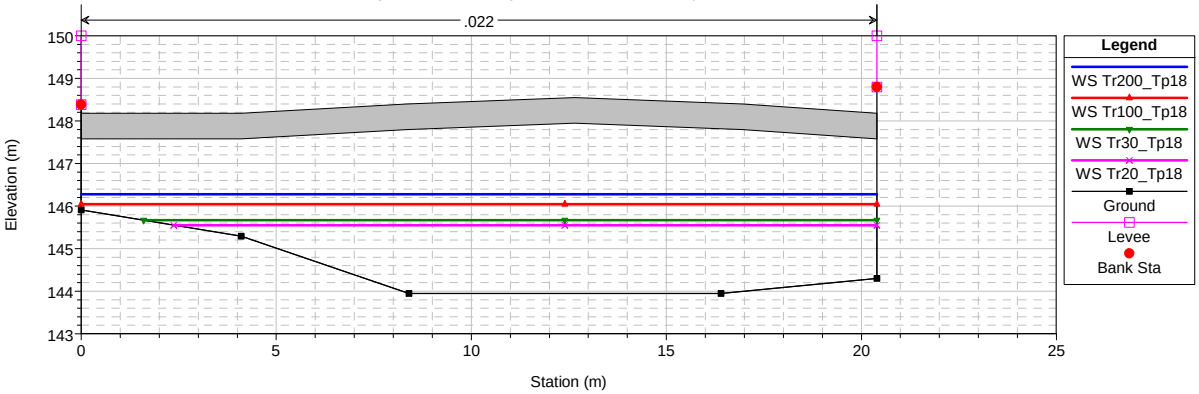
River = Dogana Reach = Dogana RS = 112 BR ponte via Marconi - via Roma



Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

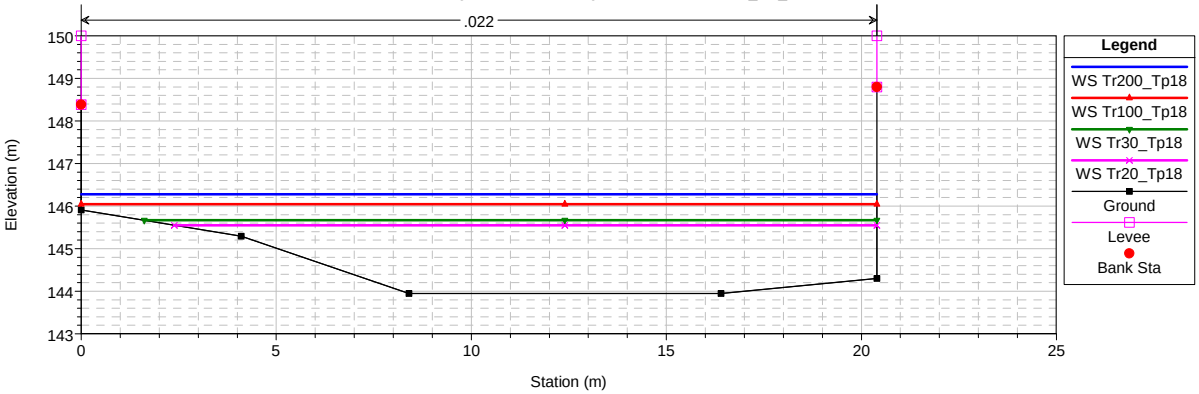
River = Dogana Reach = Dogana RS = 112 BR ponte via Marconi - via Roma



Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

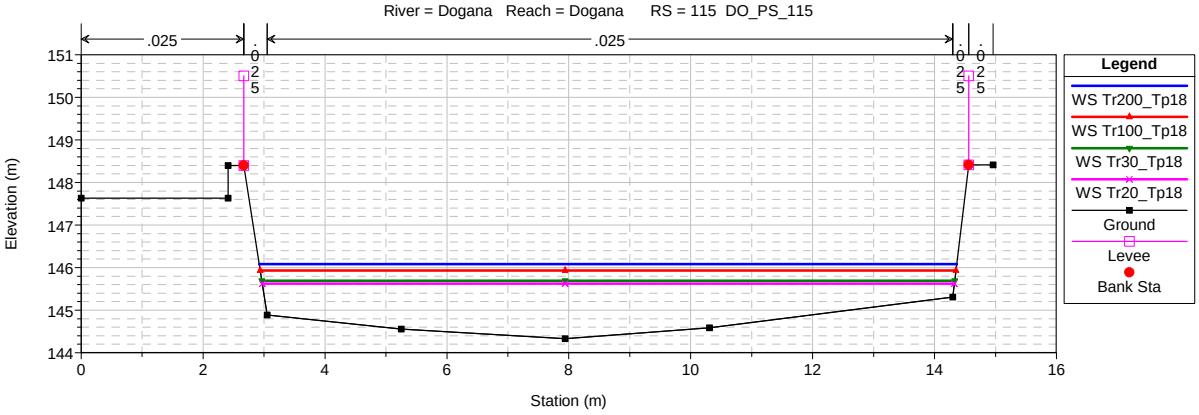
River = Dogana Reach = Dogana RS = 111 DO_PS_111



Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

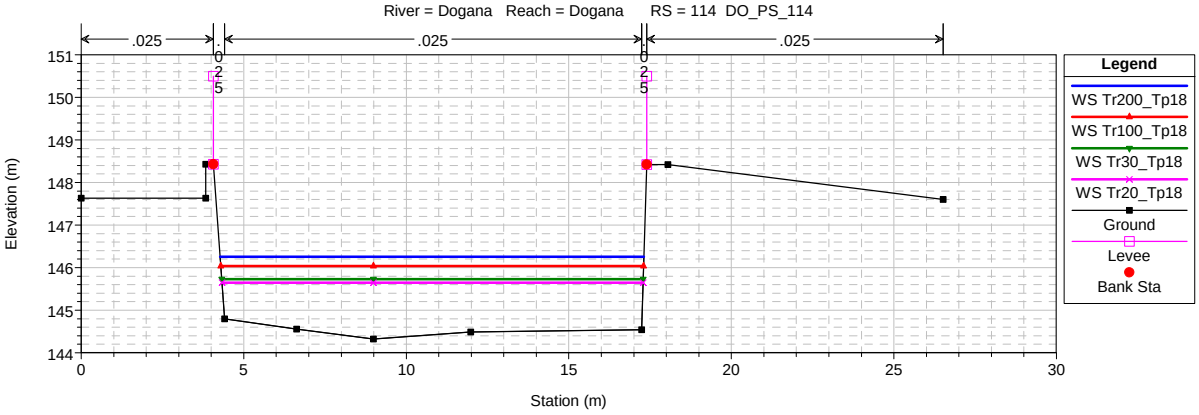
River = Dogana Reach = Dogana RS = 115 DO_PS_115



Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

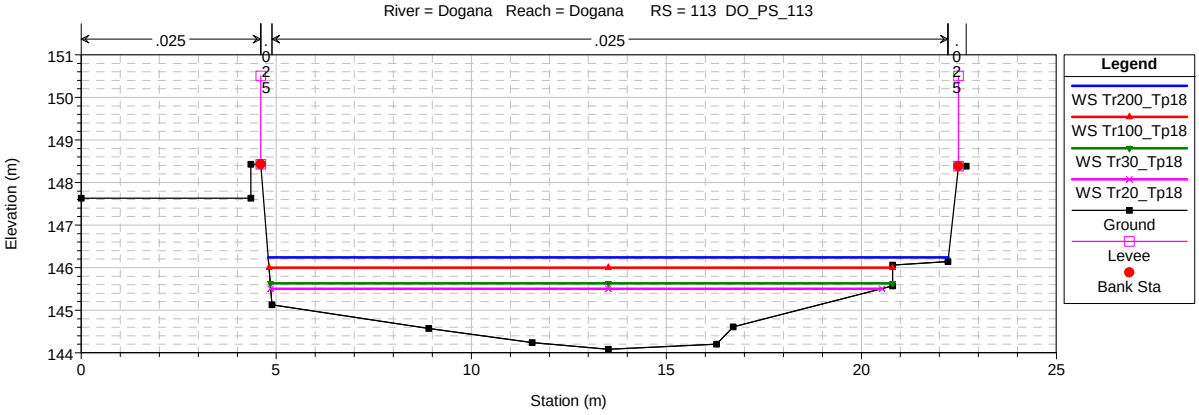
River = Dogana Reach = Dogana RS = 114 DO_PS_114



Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

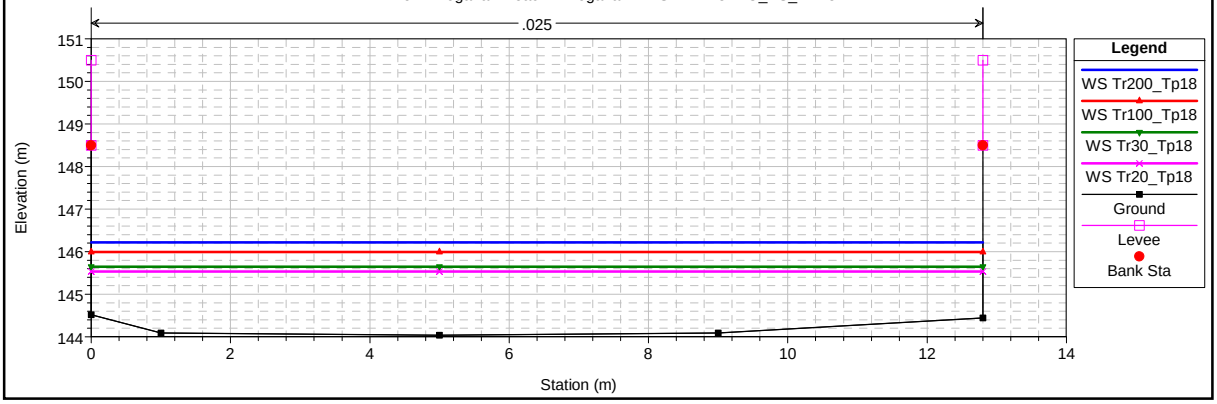
River = Dogana Reach = Dogana RS = 113 DO_PS_113



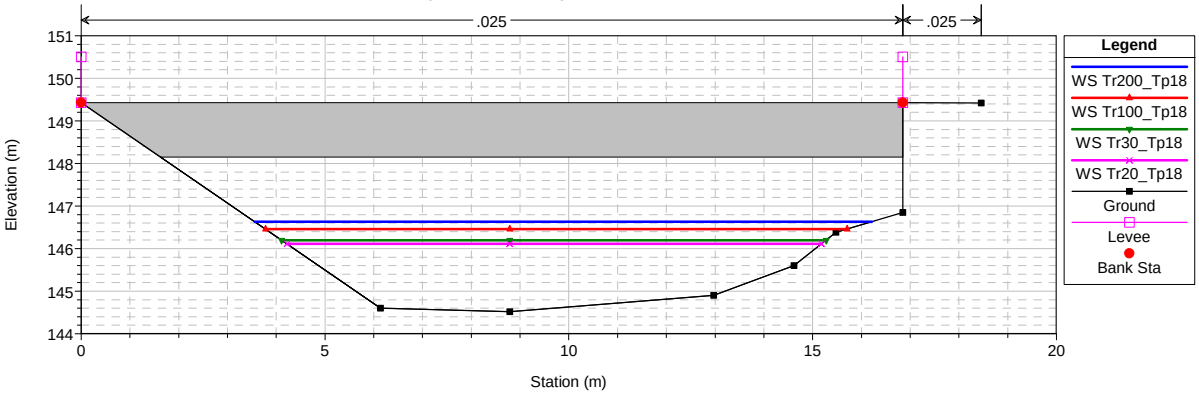
Sabina_Caspri_Dogana Plan: DSA_perm_18

Geom: DSA_Tp18

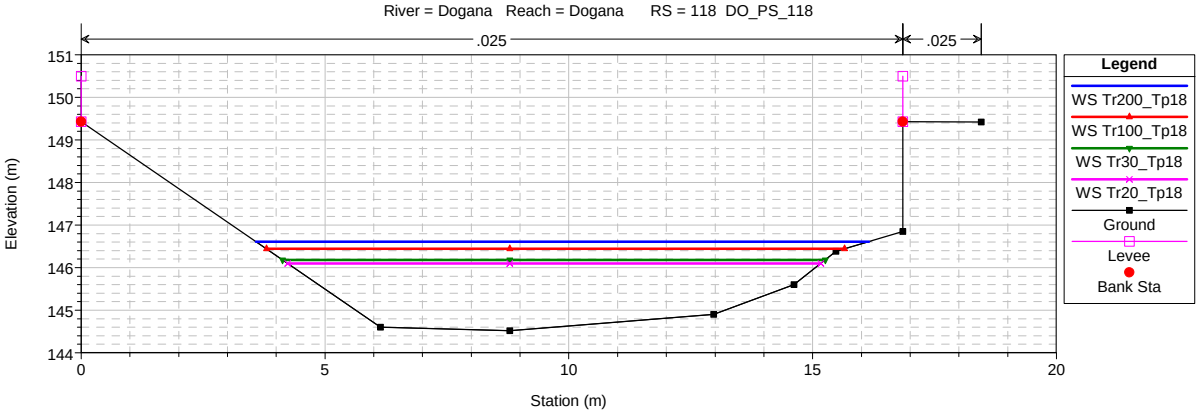
River = Dogana Reach = Dogana RS = 112.5 DO_PS_112.5



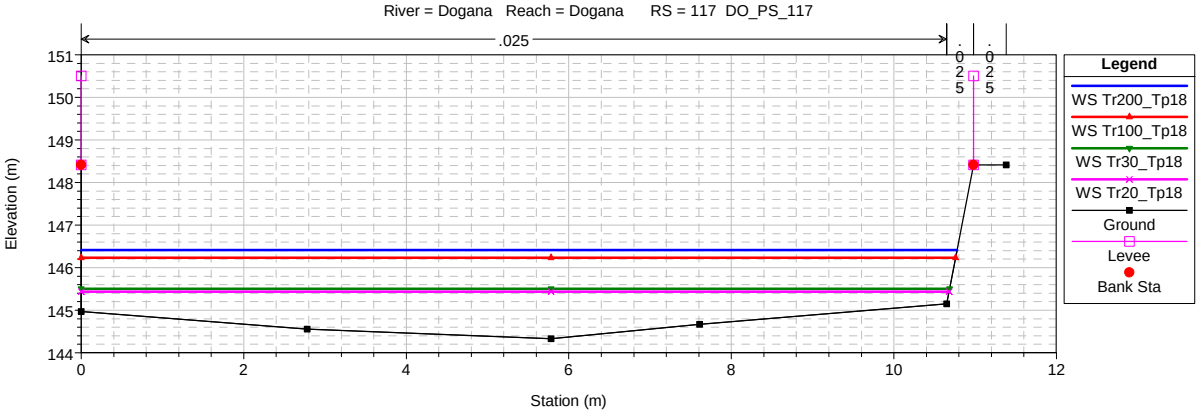
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 118.5 BR Ponte ferrovia



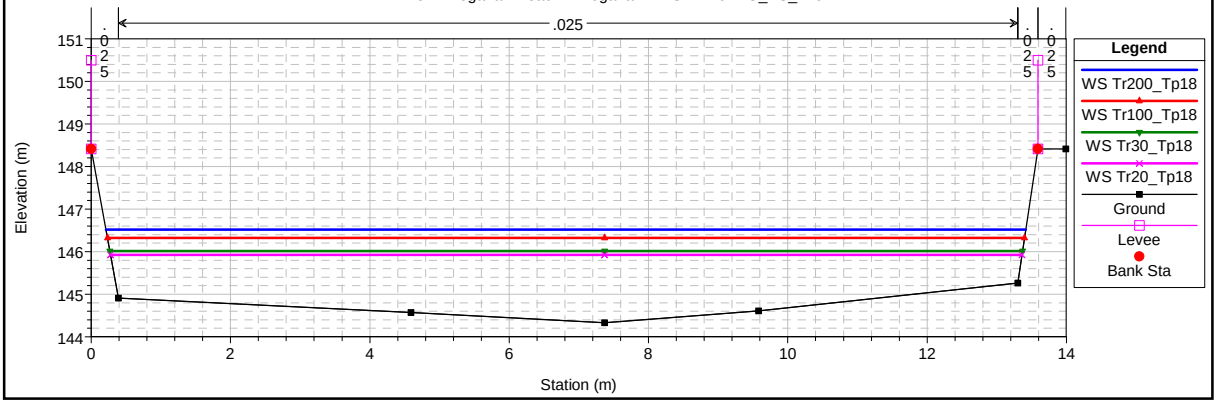
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 118 DO_PS_118

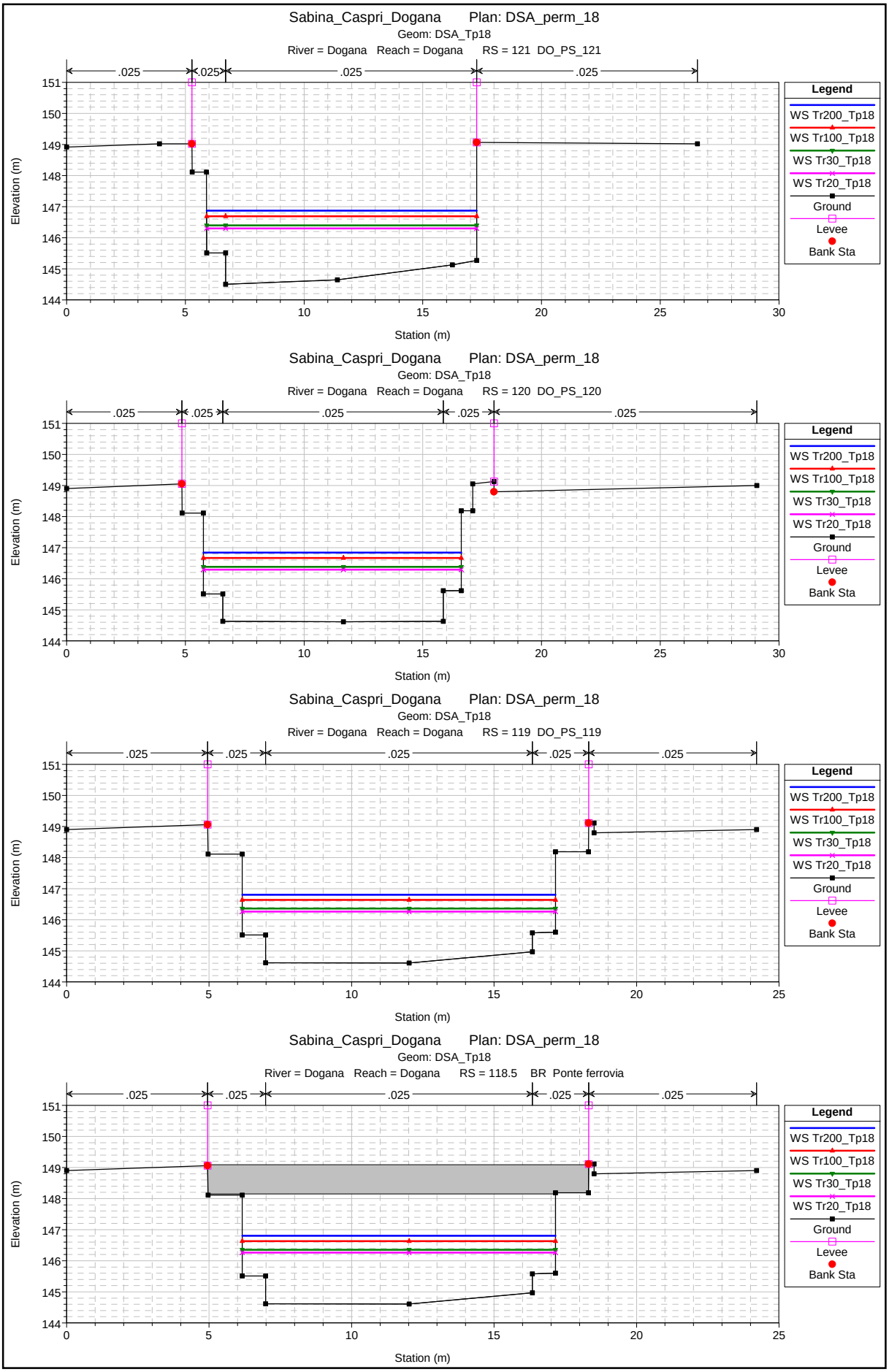


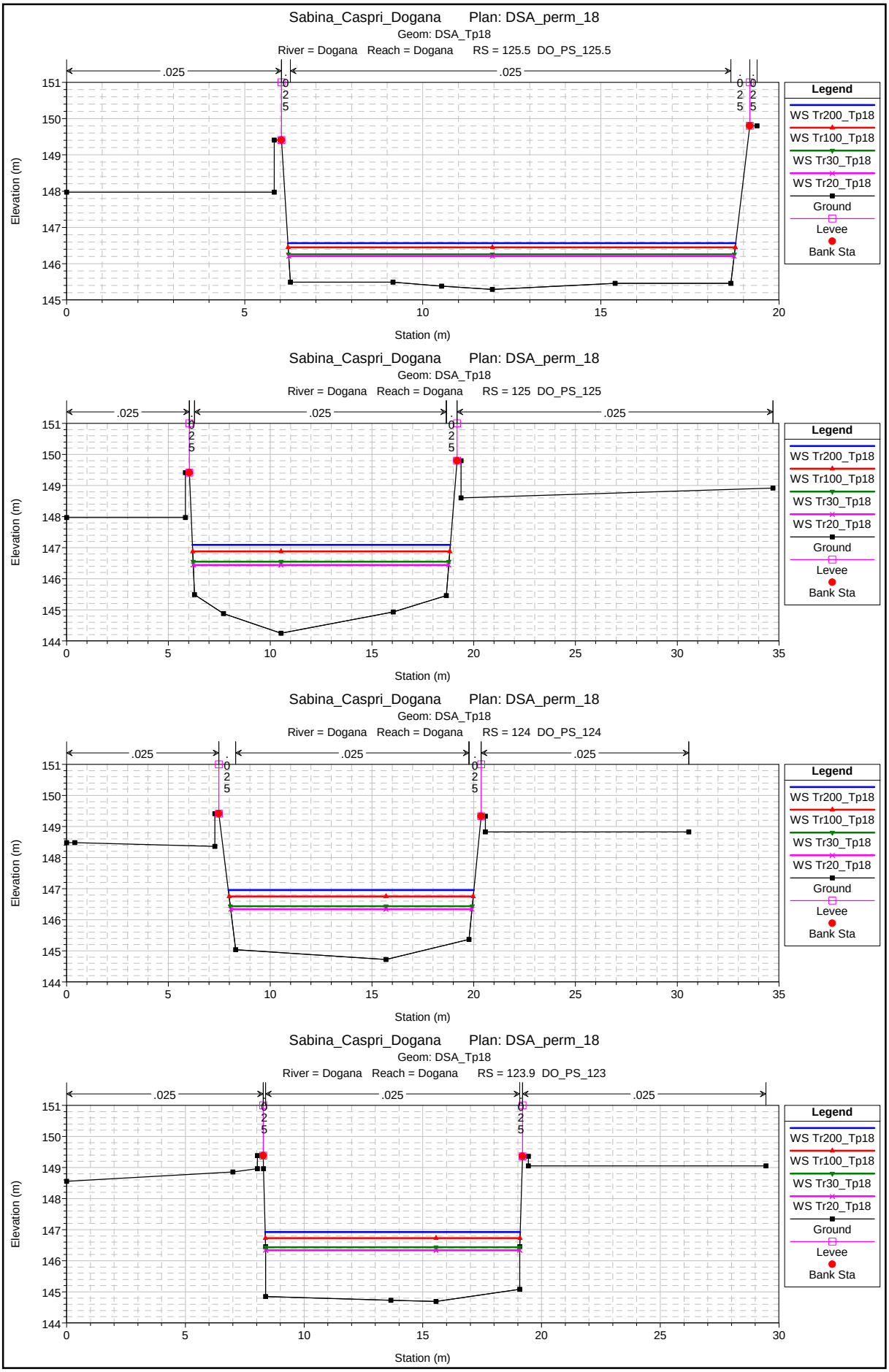
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 117 DO_PS_117

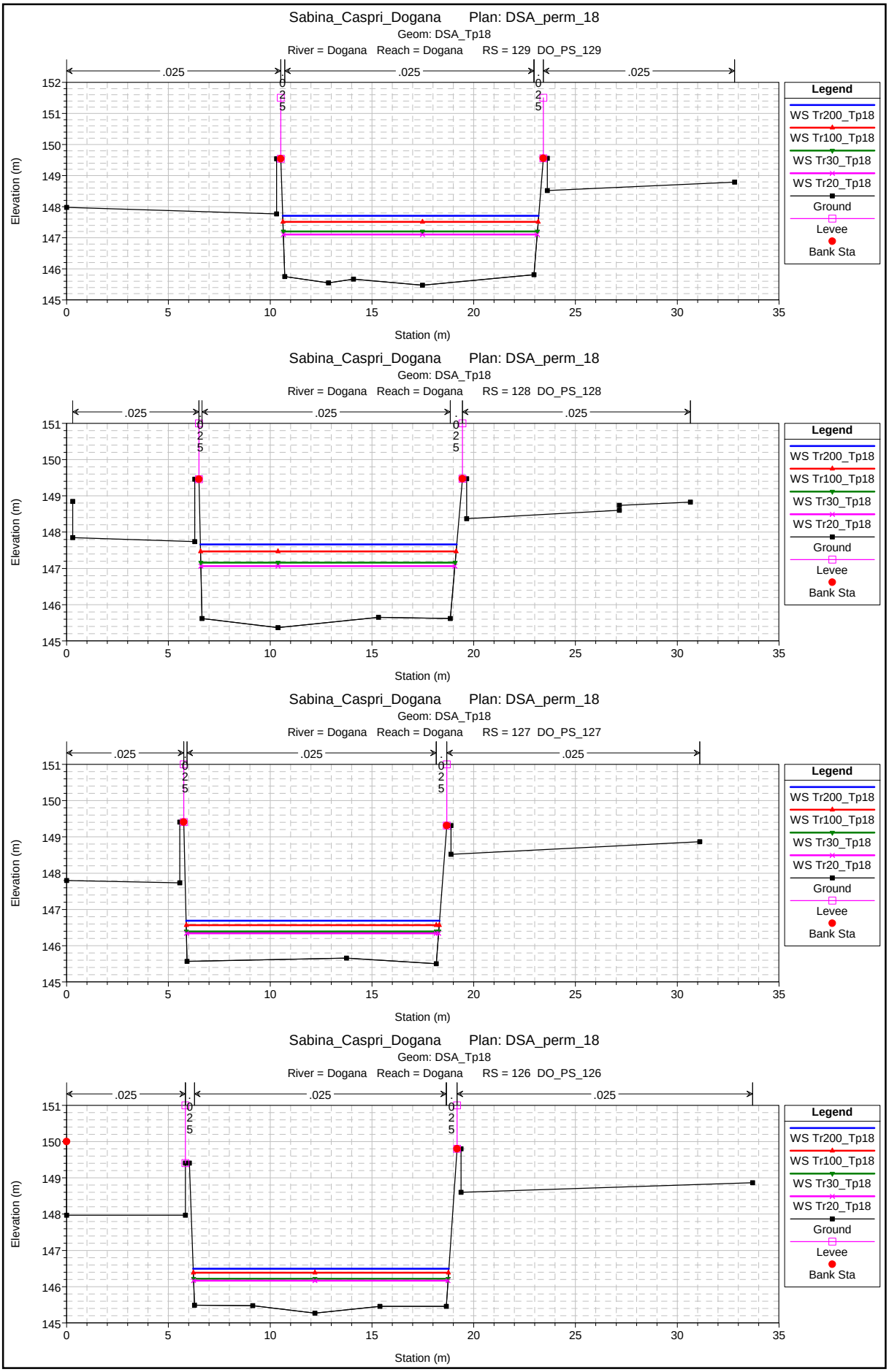


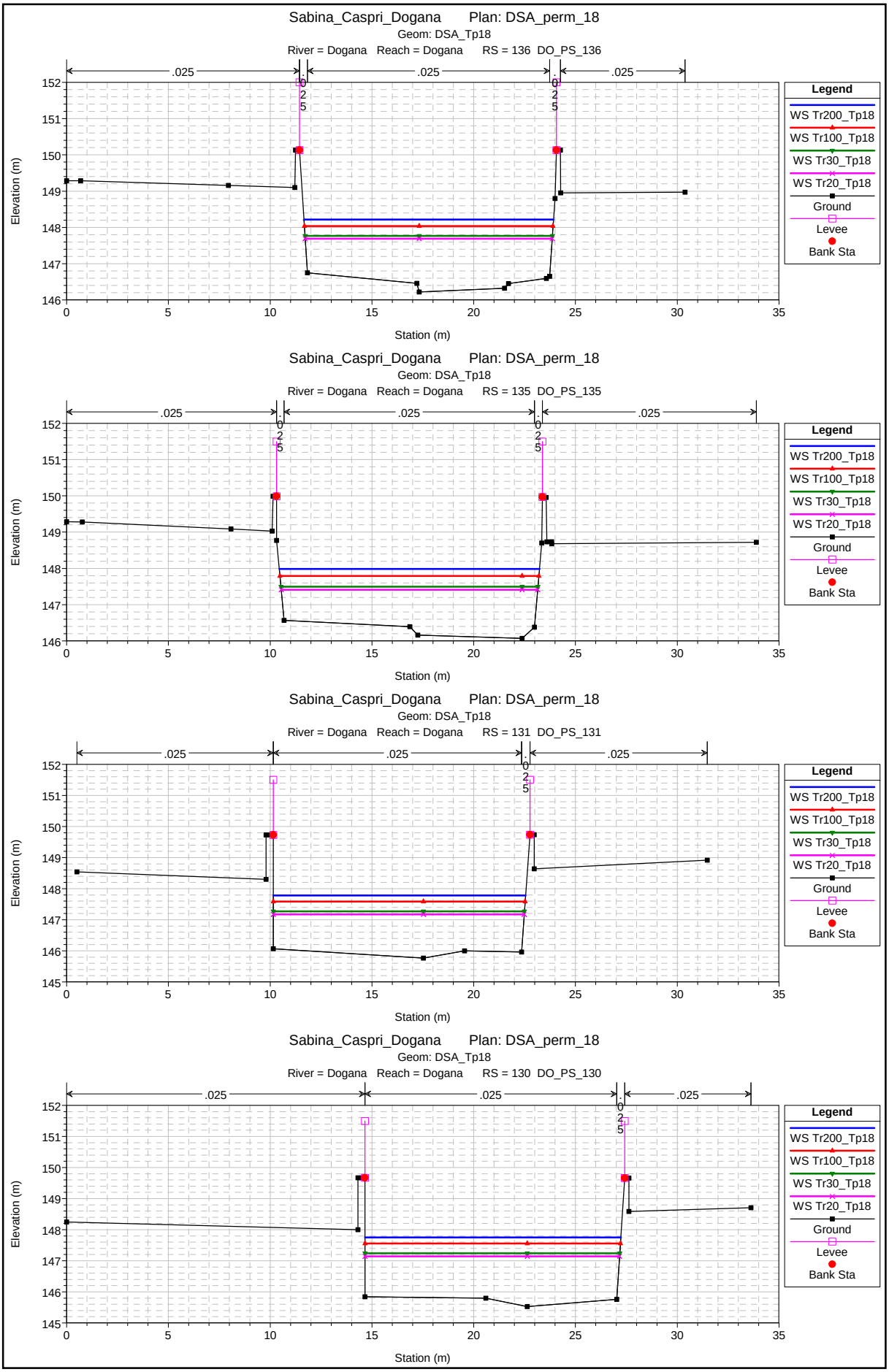
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 116 DO_PS_116

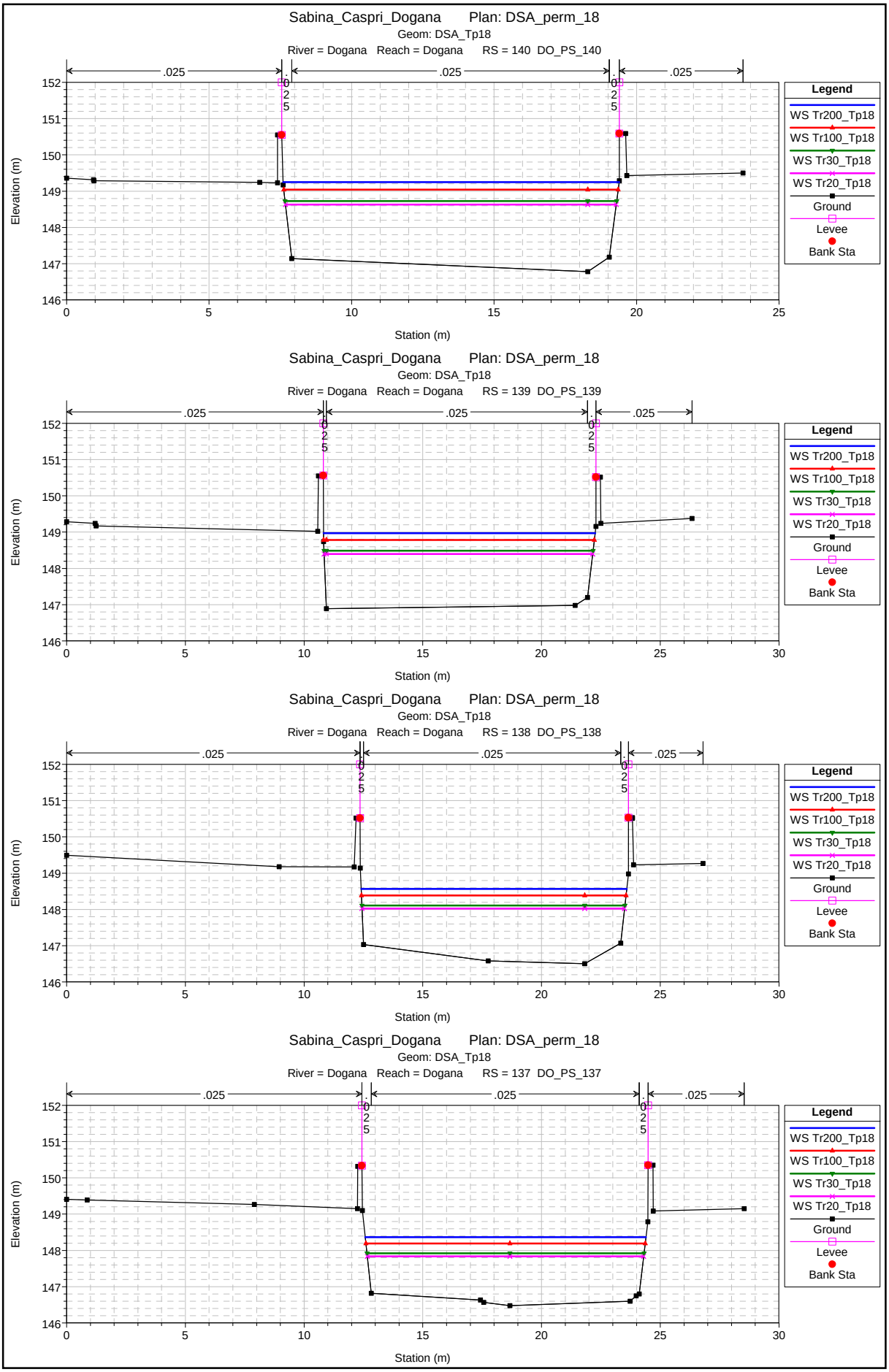


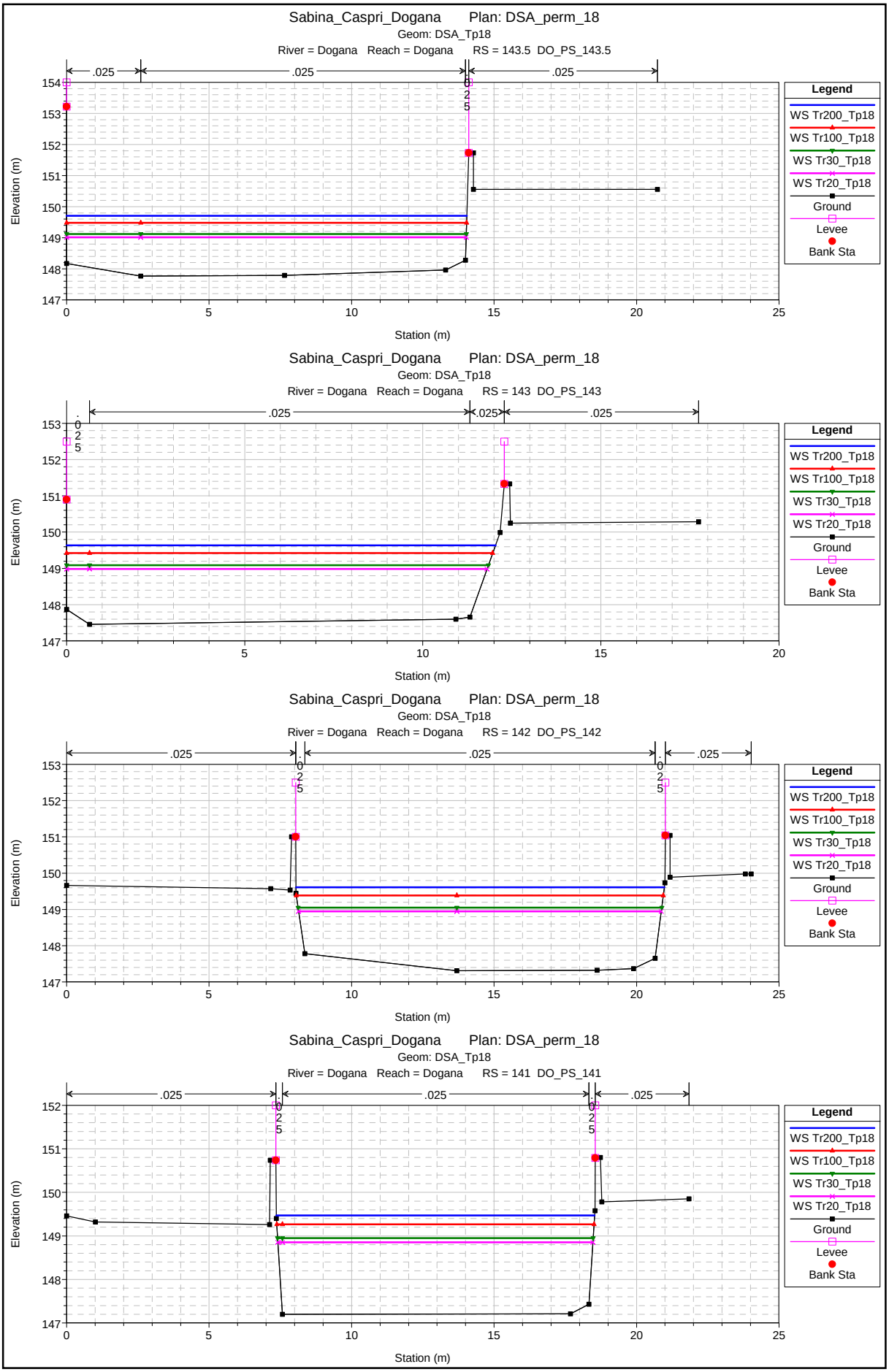

Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 121 DO_PS_121
.025
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 120 DO_PS_120
.025
.025
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 119 DO_PS_119
.025
.025
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 118.5 BR Ponte ferrovia
.025
.025
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta

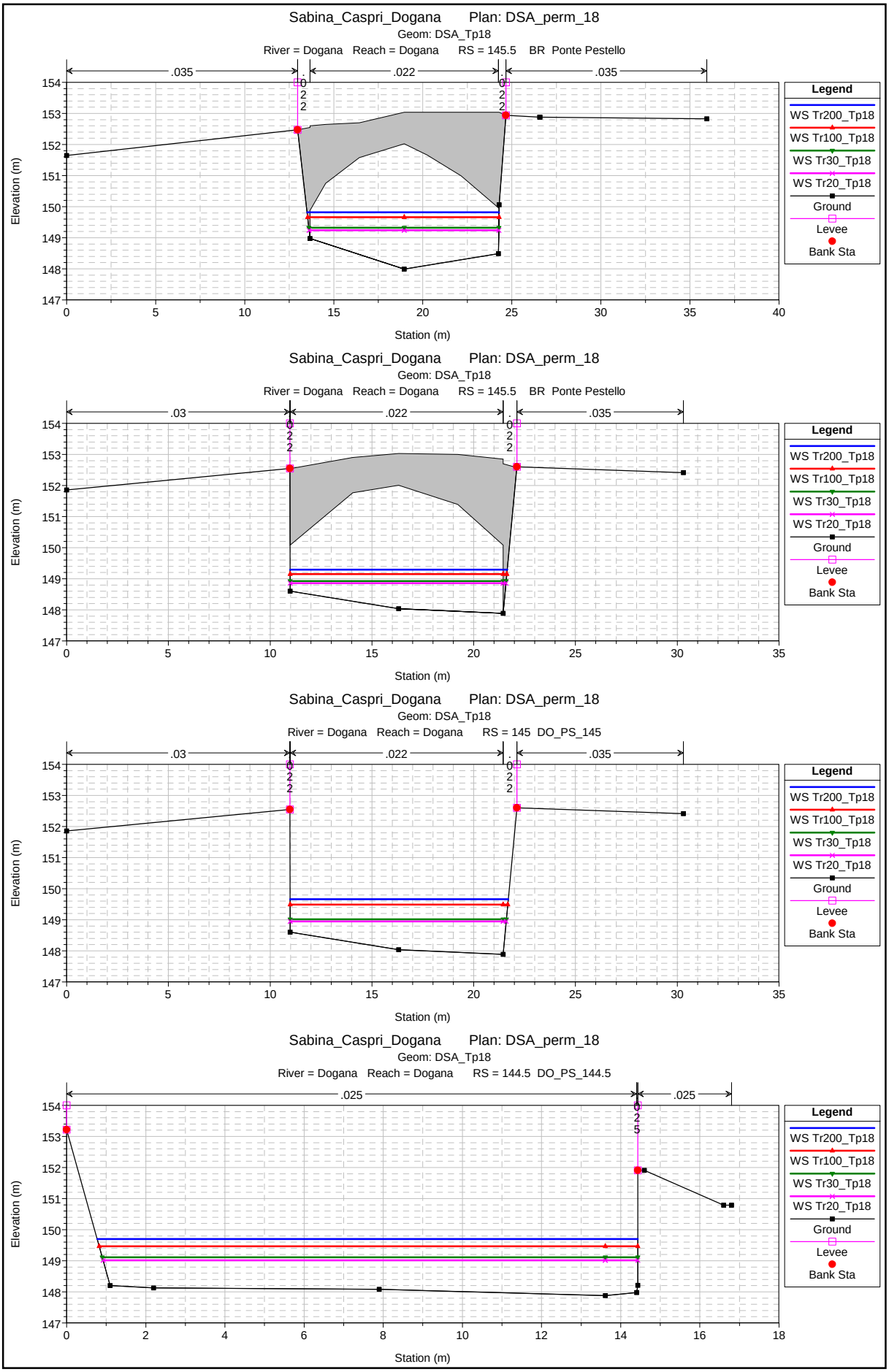

Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 125.5 DO_PS_125.5
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 125 DO_PS_125
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 124 DO_PS_124
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 123.9 DO_PS_123
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta

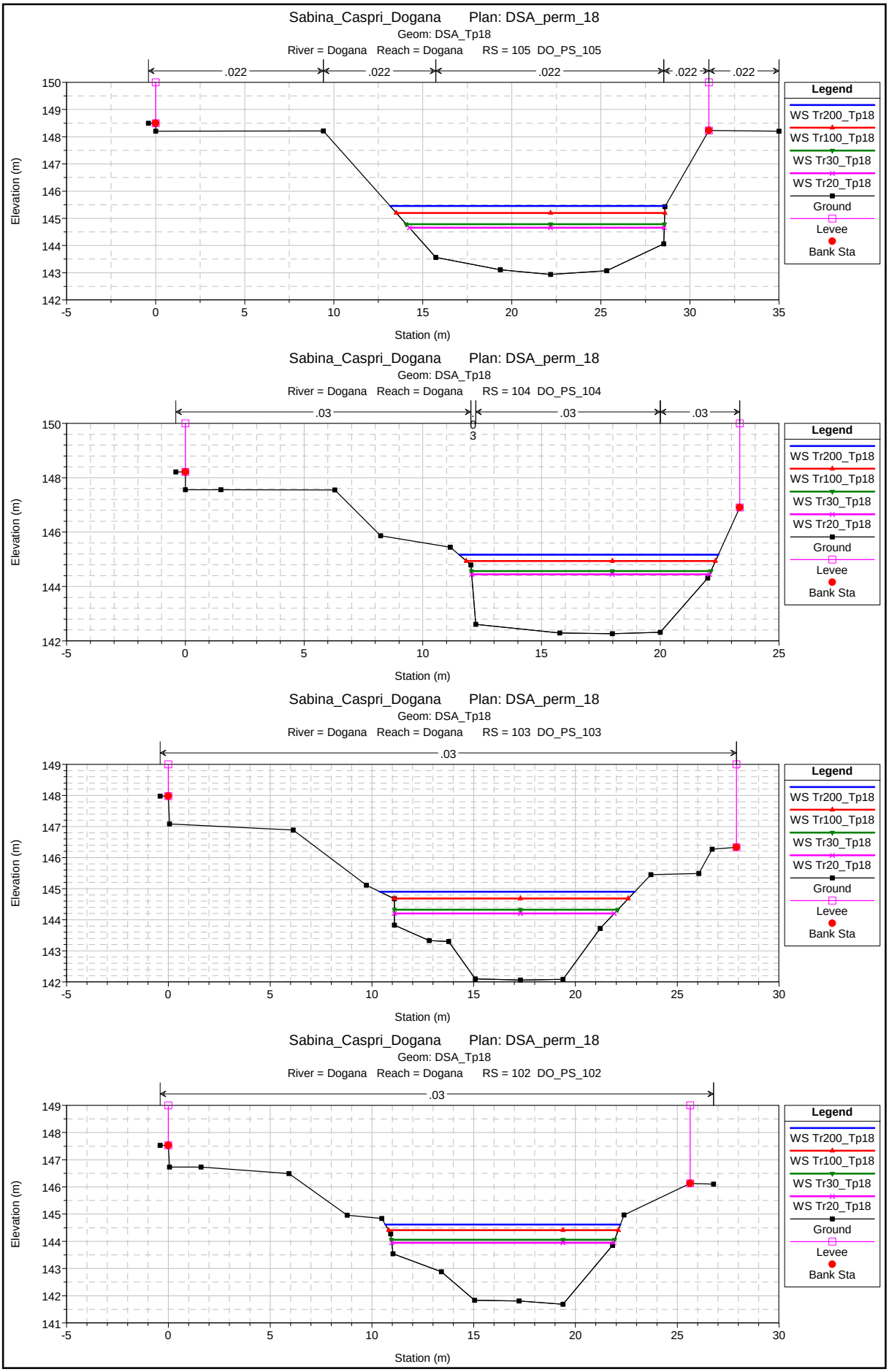

Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 129 DO_PS_129
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 128 DO_PS_128
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 127 DO_PS_127
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 126 DO_PS_126
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta

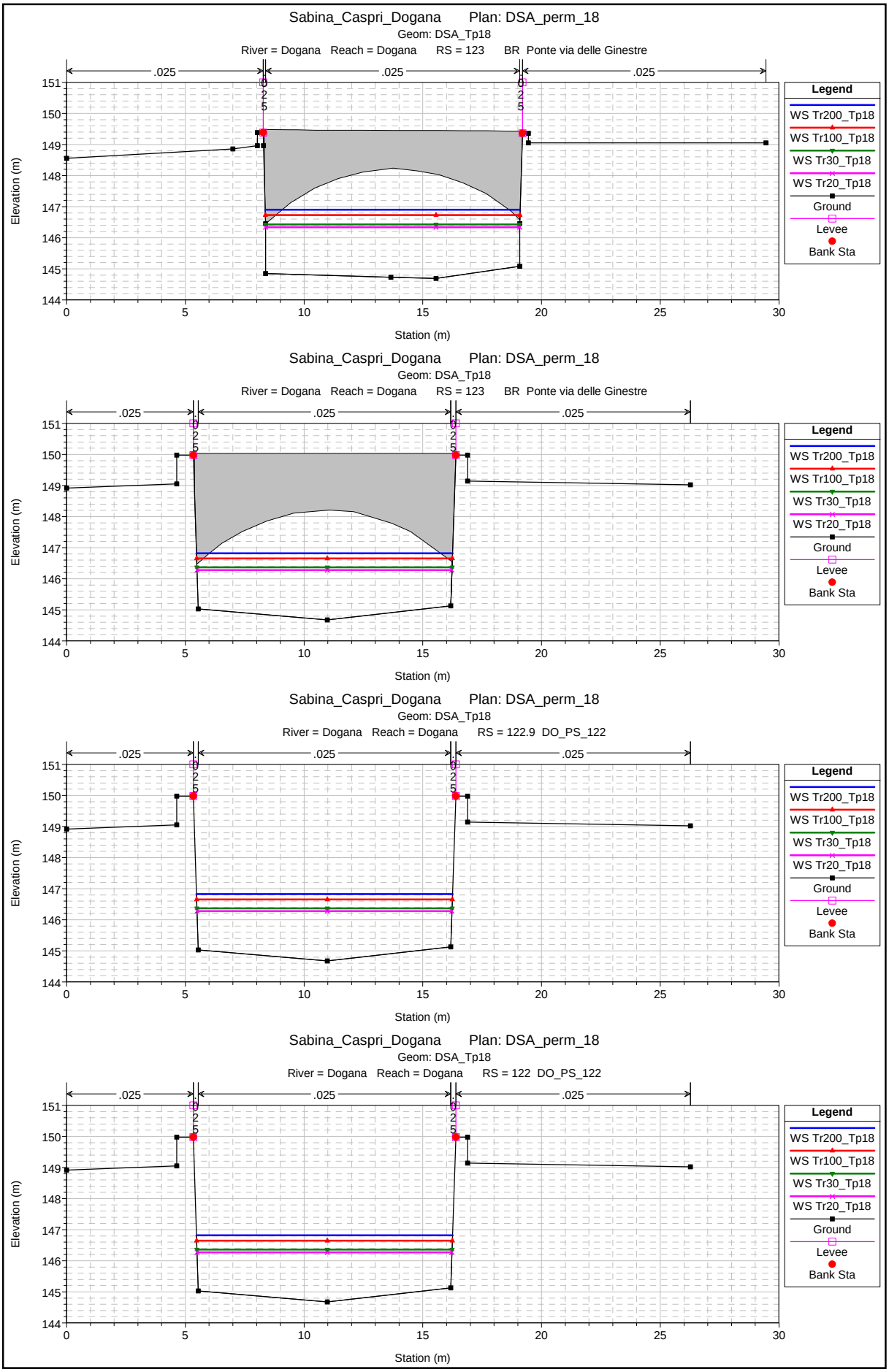

Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 136 DO_PS_136
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 135 DO_PS_135
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 131 DO_PS_131
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 130 DO_PS_130

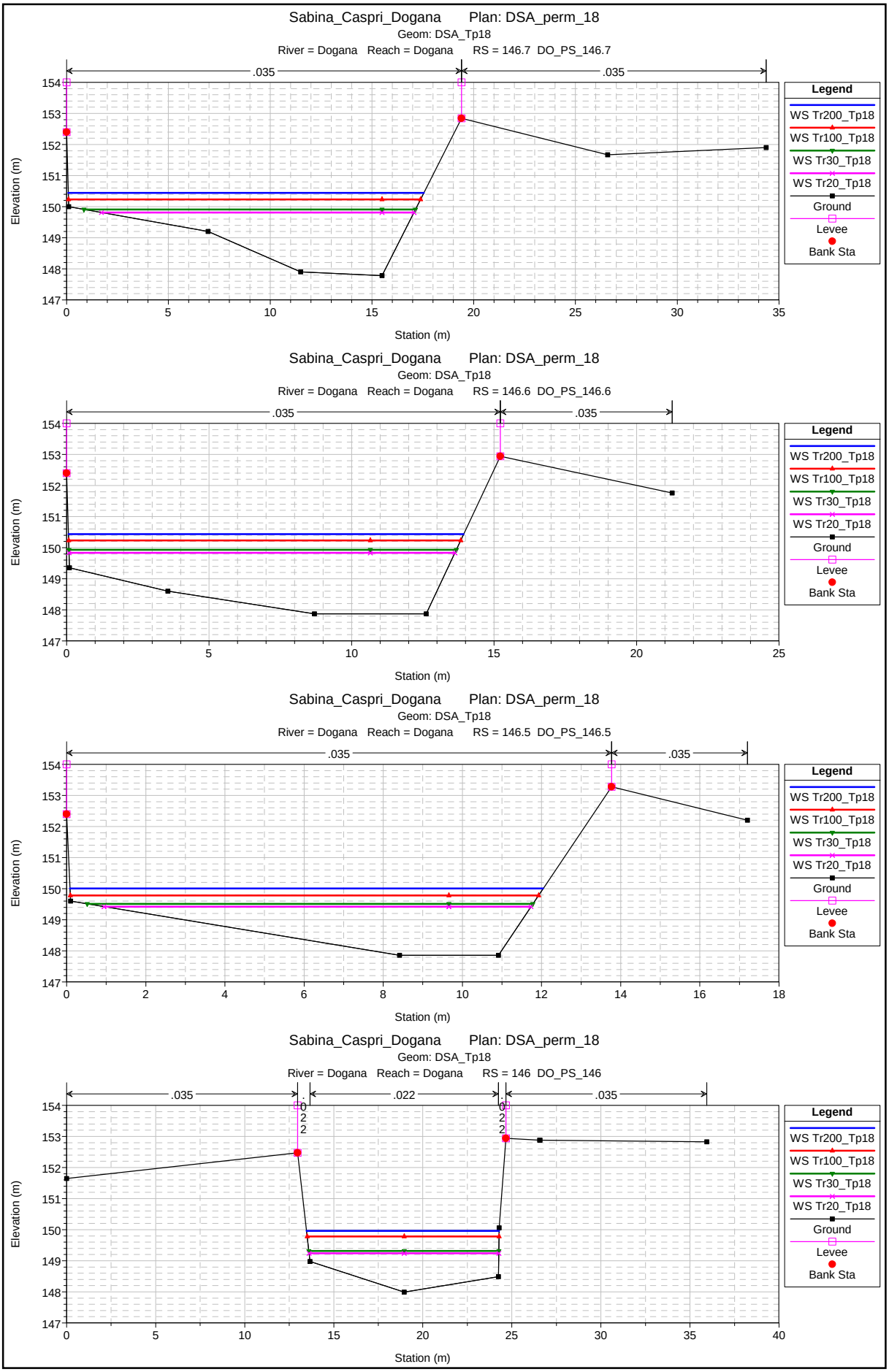

Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 140 DO_PS_140
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 139 DO_PS_139
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 138 DO_PS_138
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 137 DO_PS_137
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta

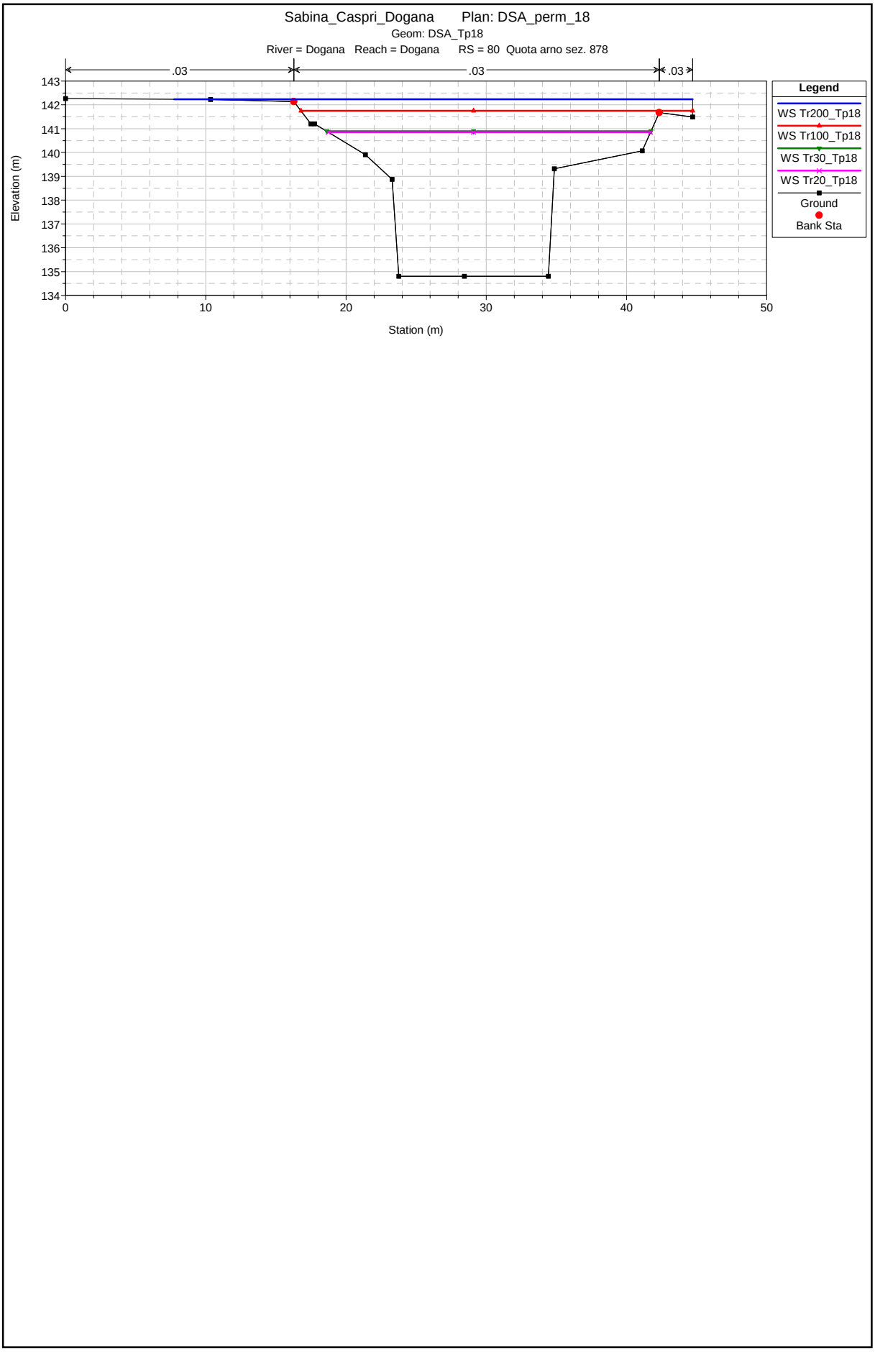

Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 143.5 DO_PS_143.5
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 143 DO_PS_143
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 142 DO_PS_142
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 141 DO_PS_141
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta


Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 145.5 BR Ponte Pestello
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 145.5 BR Ponte Pestello
.03
.022
.035
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 145 DO_PS_145
.03
.022
.035
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 144.5 DO_PS_144.5
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta


Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 105 DO_PS_105
.022
.022
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 104 DO_PS_104
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 103 DO_PS_103
.03
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 102 DO_PS_102
.03
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta


Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 123 BR Ponte via delle Ginestre
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 123 BR Ponte via delle Ginestre
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 122.9 DO_PS_122
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 122 DO_PS_122


Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 146.7 DO_PS_146.7
.035
.035
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 146.6 DO_PS_146.6
.035
.035
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 146.5 DO_PS_146.5
.035
.035
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta
Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 146 DO_PS_146
.035
.022
.035
Elevation (m)
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Levee
Bank Sta


Sabina_Caspri_Dogana Plan: DSA_perm_18
Geom: DSA_Tp18
River = Dogana Reach = Dogana RS = 80 Quota arno sez. 878
.03
.03
.03
Elevation (m)
143
142
141
140
139
138
137
136
135
134
0
10
20
30
40
50
Station (m)
Legend
WS Tr200_Tp18
WS Tr100_Tp18
WS Tr30_Tp18
WS Tr20_Tp18
Ground
Bank Sta

HEC-RAS Plan: DSA_perm_18 River: Dogana Reach: Dogana

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	146.7	Tr200_Tp18	58.35	147.78	150.44	149.87	150.67	0.003465	2.12	27.52	17.47	0.54
Dogana	146.7	Tr100_Tp18	48.98	147.78	150.23	149.70	150.45	0.003794	2.05	23.87	17.30	0.56
Dogana	146.7	Tr30_Tp18	35.74	147.78	149.91	149.42	150.10	0.004338	1.94	18.41	16.29	0.58
Dogana	146.7	Tr20_Tp18	32.02	147.78	149.81	149.32	150.00	0.004354	1.90	16.82	15.35	0.58
Dogana	146.6	Tr200_Tp18	58.35	147.87	150.43	149.60	150.65	0.002620	2.08	28.11	13.87	0.47
Dogana	146.6	Tr100_Tp18	48.98	147.87	150.23	149.46	150.42	0.002517	1.93	25.35	13.76	0.45
Dogana	146.6	Tr30_Tp18	35.74	147.87	149.93	149.23	150.07	0.002308	1.69	21.19	13.60	0.43
Dogana	146.6	Tr20_Tp18	32.02	147.87	149.83	149.15	149.97	0.002251	1.61	19.88	13.54	0.42
Dogana	146.5	Tr200_Tp18	58.35	147.86	150.00	149.91	150.59	0.010589	3.40	17.17	11.96	0.91
Dogana	146.5	Tr100_Tp18	48.98	147.86	149.78	149.75	150.36	0.012367	3.37	14.55	11.83	0.97
Dogana	146.5	Tr30_Tp18	35.74	147.86	149.51	149.51	150.02	0.013629	3.14	11.37	11.26	1.00
Dogana	146.5	Tr20_Tp18	32.02	147.86	149.42	149.42	149.91	0.013930	3.08	10.39	10.79	1.00
Dogana	146	Tr200_Tp18	58.35	147.99	149.96	149.82	150.56	0.004027	3.42	17.04	10.81	0.87
Dogana	146	Tr100_Tp18	48.98	147.99	149.78	149.66	150.32	0.004114	3.25	15.07	10.77	0.88
Dogana	146	Tr30_Tp18	35.74	147.99	149.31	149.42	149.95	0.007539	3.54	10.09	10.67	1.16
Dogana	146	Tr20_Tp18	32.02	147.99	149.24	149.34	149.84	0.007837	3.45	9.29	10.65	1.18
Dogana	145.5		Bridge									
Dogana	145	Tr200_Tp18	58.35	147.89	149.66	149.61	150.33	0.004938	3.62	16.12	10.72	0.94
Dogana	145	Tr100_Tp18	48.98	147.89	149.49	149.44	150.09	0.005103	3.45	14.21	10.70	0.95
Dogana	145	Tr30_Tp18	35.74	147.89	149.02	149.20	149.79	0.010493	3.89	9.19	10.63	1.33
Dogana	145	Tr20_Tp18	32.02	147.89	148.95	149.13	149.67	0.010843	3.77	8.49	10.62	1.35
Dogana	144.5	Tr200_Tp18	58.35	147.88	149.70	149.29	150.05	0.002907	2.62	22.23	13.66	0.66
Dogana	144.5	Tr100_Tp18	48.98	147.88	149.47	149.16	149.80	0.003270	2.56	19.10	13.61	0.69
Dogana	144.5	Tr30_Tp18	35.74	147.88	149.12	148.95	149.43	0.004249	2.49	14.36	13.53	0.77
Dogana	144.5	Tr20_Tp18	32.02	147.88	149.01	148.88	149.32	0.004726	2.47	12.95	13.51	0.81
Dogana	143.5	Tr200_Tp18	58.35	147.77	149.71	149.08	149.97	0.001847	2.26	25.79	14.05	0.53
Dogana	143.5	Tr100_Tp18	48.98	147.77	149.48	148.95	149.72	0.001966	2.17	22.54	14.04	0.55
Dogana	143.5	Tr30_Tp18	35.74	147.77	149.12	148.74	149.34	0.002269	2.04	17.56	14.03	0.58

HEC-RAS Plan: DSA_perm_18 River: Dogana Reach: Dogana (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	143.5	Tr20_Tp18	32.02	147.77	149.02	148.68	149.22	0.002409	1.99	16.06	14.02	0.59
Dogana	143.49		Lat Struct									
Dogana	143.48		Lat Struct									
Dogana	143	Tr200_Tp18	58.35	147.46	149.64	148.92	149.93	0.001908	2.39	24.45	12.04	0.53
Dogana	143	Tr100_Tp18	48.98	147.46	149.42	148.78	149.68	0.001884	2.24	21.84	11.96	0.53
Dogana	143	Tr30_Tp18	35.74	147.46	149.09	148.54	149.29	0.001843	2.00	17.85	11.84	0.52
Dogana	143	Tr20_Tp18	32.02	147.46	148.98	148.47	149.17	0.001835	1.93	16.63	11.80	0.52
Dogana	142	Tr200_Tp18	58.35	147.31	149.61	148.75	149.84	0.001407	2.13	27.40	12.93	0.47
Dogana	142	Tr100_Tp18	48.98	147.31	149.39	148.60	149.59	0.001376	1.99	24.56	12.88	0.46
Dogana	142	Tr30_Tp18	35.74	147.31	149.05	148.38	149.21	0.001322	1.77	20.21	12.76	0.45
Dogana	142	Tr20_Tp18	32.02	147.31	148.94	148.32	149.09	0.001306	1.70	18.88	12.73	0.44
Dogana	141	Tr200_Tp18	58.35	147.20	149.47	148.65	149.75	0.001801	2.36	24.75	11.17	0.51
Dogana	141	Tr100_Tp18	48.98	147.20	149.27	148.49	149.51	0.001688	2.18	22.48	11.14	0.49
Dogana	141	Tr30_Tp18	35.74	147.20	148.95	148.25	149.13	0.001498	1.89	18.94	11.08	0.46
Dogana	141	Tr20_Tp18	32.02	147.20	148.85	148.18	149.01	0.001436	1.79	17.86	11.06	0.45
Dogana	140	Tr200_Tp18	58.35	146.78	149.25	148.36	149.50	0.001539	2.23	26.19	11.80	0.48
Dogana	140	Tr100_Tp18	48.98	146.78	149.05	148.21	149.26	0.001443	2.06	23.78	11.74	0.46
Dogana	140	Tr30_Tp18	35.74	146.78	148.73	147.98	148.89	0.001277	1.78	20.06	11.64	0.43
Dogana	140	Tr20_Tp18	32.02	146.78	148.63	147.91	148.78	0.001221	1.69	18.93	11.61	0.42
Dogana	139	Tr200_Tp18	58.35	146.89	148.97	148.36	149.31	0.002343	2.56	22.76	11.44	0.58
Dogana	139	Tr100_Tp18	48.98	146.89	148.78	148.20	149.07	0.002229	2.38	20.58	11.40	0.57
Dogana	139	Tr30_Tp18	35.74	146.89	148.49	147.97	148.71	0.002032	2.08	17.22	11.33	0.54
Dogana	139	Tr20_Tp18	32.02	146.89	148.40	147.89	148.60	0.001966	1.98	16.20	11.31	0.53
Dogana	138	Tr200_Tp18	58.35	146.50	148.56	148.14	148.98	0.003092	2.86	20.41	11.18	0.68
Dogana	138	Tr100_Tp18	48.98	146.50	148.38	147.98	148.74	0.002965	2.66	18.41	11.14	0.66
Dogana	138	Tr30_Tp18	35.74	146.50	148.11	147.74	148.38	0.002746	2.33	15.34	11.08	0.63
Dogana	138	Tr20_Tp18	32.02	146.50	148.02	147.67	148.27	0.002671	2.22	14.40	11.06	0.62

HEC-RAS Plan: DSA_perm_18 River: Dogana Reach: Dogana (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	137.99		Lat Struct									
Dogana	137.98		Lat Struct									
Dogana	137	Tr200_Tp18	58.35	146.48	148.37	148.01	148.80	0.003393	2.90	20.13	11.83	0.71
Dogana	137	Tr100_Tp18	48.98	146.48	148.19	147.86	148.57	0.003338	2.72	18.03	11.77	0.70
Dogana	137	Tr30_Tp18	35.74	146.48	147.92	147.63	148.21	0.003214	2.41	14.86	11.67	0.68
Dogana	137	Tr20_Tp18	32.02	146.48	147.84	147.56	148.11	0.003174	2.30	13.89	11.64	0.67
Dogana	136	Tr200_Tp18	58.35	146.22	148.21	147.81	148.61	0.003101	2.77	21.05	12.26	0.68
Dogana	136	Tr100_Tp18	48.98	146.22	148.04	147.67	148.38	0.003042	2.59	18.88	12.22	0.67
Dogana	136	Tr30_Tp18	35.74	146.22	147.77	147.44	148.04	0.002902	2.29	15.62	12.15	0.64
Dogana	136	Tr20_Tp18	32.02	146.22	147.69	147.37	147.93	0.002853	2.19	14.63	12.13	0.64
Dogana	135	Tr200_Tp18	58.35	146.07	147.98	147.62	148.38	0.003229	2.78	20.98	12.78	0.69
Dogana	135	Tr100_Tp18	48.98	146.07	147.79	147.48	148.15	0.003316	2.64	18.55	12.72	0.70
Dogana	135	Tr30_Tp18	35.74	146.07	147.50	147.26	147.79	0.003554	2.42	14.80	12.63	0.71
Dogana	135	Tr20_Tp18	32.02	146.07	147.41	147.19	147.69	0.003653	2.34	13.67	12.60	0.72
Dogana	131	Tr200_Tp18	58.35	145.77	147.78	147.25	148.12	0.002495	2.56	22.82	12.40	0.60
Dogana	131	Tr100_Tp18	48.98	145.77	147.59	147.11	147.88	0.002471	2.40	20.40	12.38	0.60
Dogana	131	Tr30_Tp18	35.74	145.77	147.27	146.88	147.51	0.002517	2.16	16.51	12.35	0.60
Dogana	131	Tr20_Tp18	32.02	145.77	147.18	146.82	147.40	0.002559	2.09	15.30	12.33	0.60
Dogana	130	Tr200_Tp18	58.35	145.53	147.76	147.04	148.03	0.001871	2.31	25.22	12.57	0.52
Dogana	130	Tr100_Tp18	48.98	145.53	147.56	146.90	147.80	0.001796	2.15	22.77	12.55	0.51
Dogana	130	Tr30_Tp18	35.74	145.53	147.24	146.68	147.43	0.001711	1.90	18.81	12.52	0.49
Dogana	130	Tr20_Tp18	32.02	145.53	147.14	146.61	147.31	0.001694	1.82	17.57	12.51	0.49
Dogana	129	Tr200_Tp18	58.35	145.47	147.71	146.94	147.97	0.001696	2.26	25.87	12.58	0.50
Dogana	129	Tr100_Tp18	48.98	145.47	147.51	146.80	147.74	0.001605	2.09	23.45	12.54	0.49
Dogana	129	Tr30_Tp18	35.74	145.47	147.20	146.57	147.37	0.001486	1.83	19.54	12.49	0.47
Dogana	129	Tr20_Tp18	32.02	145.47	147.10	146.51	147.26	0.001454	1.75	18.32	12.47	0.46

HEC-RAS Plan: DSA_perm_18 River: Dogana Reach: Dogana (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	128	Tr200_Tp18	58.35	145.37	147.66	146.87	147.91	0.001641	2.22	26.24	12.60	0.49
Dogana	128	Tr100_Tp18	48.98	145.37	147.47	146.72	147.68	0.001539	2.05	23.85	12.56	0.48
Dogana	128	Tr30_Tp18	35.74	145.37	147.16	146.49	147.32	0.001399	1.79	20.00	12.50	0.45
Dogana	128	Tr20_Tp18	32.02	145.37	147.06	146.43	147.21	0.001360	1.70	18.78	12.48	0.44
Dogana	127	Tr200_Tp18	58.35	145.50	146.69	146.92	147.65	0.013189	4.35	13.42	12.45	1.34
Dogana	127	Tr100_Tp18	48.98	145.50	146.57	146.77	147.43	0.013548	4.12	11.90	12.43	1.34
Dogana	127	Tr30_Tp18	35.74	145.50	146.39	146.55	147.08	0.013800	3.69	9.70	12.40	1.33
Dogana	127	Tr20_Tp18	32.02	145.50	146.34	146.49	146.97	0.013727	3.53	9.07	12.39	1.32
Dogana	126	Tr200_Tp18	58.35	145.27	146.50	146.73	147.46	0.013079	4.35	13.40	12.56	1.35
Dogana	126	Tr100_Tp18	48.98	145.27	146.38	146.58	147.23	0.013103	4.09	11.98	12.54	1.33
Dogana	126	Tr30_Tp18	35.74	145.27	146.22	146.37	146.88	0.012691	3.60	9.92	12.51	1.29
Dogana	126	Tr20_Tp18	32.02	145.27	146.17	146.30	146.77	0.012598	3.45	9.28	12.50	1.28
Dogana	125.5	Tr200_Tp18	58.35	145.29	146.56	146.74	147.43	0.010942	4.11	14.19	12.57	1.24
Dogana	125.5	Tr100_Tp18	48.98	145.29	146.45	146.59	147.20	0.010719	3.83	12.78	12.55	1.21
Dogana	125.5	Tr30_Tp18	35.74	145.29	146.25	146.37	146.87	0.011265	3.47	10.30	12.52	1.22
Dogana	125.5	Tr20_Tp18	32.02	145.29	146.20	146.31	146.76	0.011101	3.32	9.66	12.51	1.20
Dogana	125	Tr200_Tp18	58.35	144.25	147.09	146.10	147.30	0.001156	2.02	28.85	12.67	0.43
Dogana	125	Tr100_Tp18	48.98	144.25	146.88	145.95	147.06	0.001091	1.87	26.15	12.63	0.42
Dogana	125	Tr30_Tp18	35.74	144.25	146.55	145.73	146.68	0.000979	1.63	21.96	12.57	0.39
Dogana	125	Tr20_Tp18	32.02	144.25	146.44	145.66	146.57	0.000945	1.55	20.66	12.55	0.39
Dogana	124	Tr200_Tp18	58.35	144.72	146.95	146.32	147.27	0.002088	2.47	23.64	12.06	0.56
Dogana	124	Tr100_Tp18	48.98	144.72	146.75	146.17	147.02	0.002039	2.31	21.20	11.99	0.55
Dogana	124	Tr30_Tp18	35.74	144.72	146.44	145.94	146.65	0.001960	2.05	17.44	11.89	0.54
Dogana	124	Tr20_Tp18	32.02	144.72	146.34	145.87	146.54	0.001945	1.97	16.28	11.85	0.54
Dogana	123.9	Tr200_Tp18	58.35	144.69	146.92	146.25	147.26	0.002319	2.58	22.65	10.74	0.57
Dogana	123.9	Tr100_Tp18	48.98	144.69	146.73	146.09	147.02	0.002163	2.38	20.60	10.72	0.55
Dogana	123.9	Tr30_Tp18	35.74	144.69	146.43	145.85	146.65	0.001905	2.05	17.41	10.70	0.51
Dogana	123.9	Tr20_Tp18	32.02	144.69	146.34	145.78	146.53	0.001836	1.95	16.39	10.70	0.50

HEC-RAS Plan: DSA_perm_18 River: Dogana Reach: Dogana (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	123		Bridge									
Dogana	122.9	Tr200_Tp18	58.35	144.68	146.82	146.33	147.22	0.002938	2.80	20.82	10.79	0.64
Dogana	122.9	Tr100_Tp18	48.98	144.68	146.65	146.17	146.99	0.002735	2.58	18.96	10.77	0.62
Dogana	122.9	Tr30_Tp18	35.74	144.68	146.37	145.93	146.62	0.002476	2.25	15.90	10.75	0.59
Dogana	122.9	Tr20_Tp18	32.02	144.68	146.27	145.85	146.51	0.002418	2.15	14.91	10.74	0.58
Dogana	122	Tr200_Tp18	58.35	144.68	146.82	146.33	147.22	0.002972	2.81	20.74	10.79	0.65
Dogana	122	Tr100_Tp18	48.98	144.68	146.65	146.17	146.99	0.002767	2.59	18.89	10.77	0.63
Dogana	122	Tr30_Tp18	35.74	144.68	146.36	145.93	146.62	0.002506	2.26	15.84	10.75	0.59
Dogana	122	Tr20_Tp18	32.02	144.68	146.27	145.85	146.51	0.002448	2.16	14.85	10.74	0.59
Dogana	121	Tr200_Tp18	58.35	144.50	146.87	146.22	147.19	0.002292	2.52	23.18	11.38	0.56
Dogana	121	Tr100_Tp18	48.98	144.50	146.69	146.07	146.96	0.002130	2.32	21.13	11.37	0.54
Dogana	121	Tr30_Tp18	35.74	144.50	146.40	145.83	146.60	0.001908	2.01	17.79	11.37	0.51
Dogana	121	Tr20_Tp18	32.02	144.50	146.30	145.76	146.49	0.001853	1.92	16.71	11.37	0.50
Dogana	120	Tr200_Tp18	58.35	144.62	146.84	146.19	147.18	0.002486	2.59	22.56	10.86	0.57
Dogana	120	Tr100_Tp18	48.98	144.62	146.67	146.04	146.95	0.002269	2.37	20.69	10.86	0.55
Dogana	120	Tr30_Tp18	35.74	144.62	146.38	145.80	146.59	0.001963	2.03	17.61	10.86	0.51
Dogana	120	Tr20_Tp18	32.02	144.62	146.29	145.72	146.48	0.001883	1.93	16.60	10.86	0.50
Dogana	119	Tr200_Tp18	58.35	144.61	146.81	146.24	147.17	0.002717	2.67	21.82	11.00	0.61
Dogana	119	Tr100_Tp18	48.98	144.61	146.64	146.09	146.94	0.002501	2.45	19.95	11.00	0.58
Dogana	119	Tr30_Tp18	35.74	144.61	146.36	145.85	146.59	0.002210	2.12	16.88	11.00	0.55
Dogana	119	Tr20_Tp18	32.02	144.61	146.27	145.78	146.47	0.002140	2.02	15.87	11.00	0.54
Dogana	118.5		Bridge									
Dogana	118	Tr200_Tp18	58.35	144.52	146.61	146.37	147.10	0.003961	3.10	18.82	12.57	0.81
Dogana	118	Tr100_Tp18	48.98	144.52	146.44	146.20	146.88	0.003816	2.93	16.73	11.86	0.79
Dogana	118	Tr30_Tp18	35.74	144.52	146.18	145.94	146.53	0.003526	2.59	13.78	11.14	0.74
Dogana	118	Tr20_Tp18	32.02	144.52	146.10	145.86	146.42	0.003468	2.49	12.85	10.94	0.73
Dogana	117	Tr200_Tp18	58.35	144.33	146.42	146.12	146.91	0.003950	3.12	18.67	10.78	0.76

HEC-RAS Plan: DSA_perm_18 River: Dogana Reach: Dogana (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	117	Tr100_Tp18	48.98	144.33	146.24	145.96	146.67	0.003876	2.93	16.72	10.76	0.75
Dogana	117	Tr30_Tp18	35.74	144.33	145.51	145.72	146.33	0.014434	4.02	8.90	10.69	1.40
Dogana	117	Tr20_Tp18	32.02	144.33	145.44	145.65	146.22	0.015189	3.92	8.17	10.68	1.43
Dogana	116	Tr200_Tp18	58.35	144.33	146.52	145.96	146.83	0.002164	2.44	23.90	13.21	0.58
Dogana	116	Tr100_Tp18	48.98	144.33	146.32	145.82	146.59	0.002174	2.30	21.27	13.17	0.58
Dogana	116	Tr30_Tp18	35.74	144.33	146.02	145.61	146.24	0.002201	2.07	17.26	13.10	0.58
Dogana	116	Tr20_Tp18	32.02	144.33	145.92	145.54	146.13	0.002212	1.99	16.05	13.08	0.57
Dogana	115	Tr200_Tp18	58.35	144.33	146.08	146.08	146.77	0.006754	3.69	15.83	11.44	1.00
Dogana	115	Tr100_Tp18	48.98	144.33	145.93	145.93	146.54	0.006785	3.47	14.10	11.41	1.00
Dogana	115	Tr30_Tp18	35.74	144.33	145.69	145.69	146.19	0.006941	3.13	11.42	11.37	1.00
Dogana	115	Tr20_Tp18	32.02	144.33	145.62	145.62	146.09	0.007055	3.02	10.59	11.36	1.00
Dogana	114	Tr200_Tp18	58.35	144.32	146.26	145.79	146.59	0.002627	2.58	22.63	13.04	0.62
Dogana	114	Tr100_Tp18	48.98	144.32	146.04	145.64	146.35	0.002767	2.47	19.84	13.01	0.64
Dogana	114	Tr30_Tp18	35.74	144.32	145.73	145.43	145.99	0.002966	2.26	15.82	12.97	0.65
Dogana	114	Tr20_Tp18	32.02	144.32	145.65	145.36	145.89	0.002958	2.17	14.76	12.96	0.65
Dogana	113	Tr200_Tp18	58.35	144.08	146.24	145.73	146.49	0.002114	2.24	26.05	17.44	0.58
Dogana	113	Tr100_Tp18	48.98	144.08	146.00	145.60	146.25	0.002272	2.22	22.07	15.99	0.60
Dogana	113	Tr30_Tp18	35.74	144.08	145.63	145.40	145.88	0.003264	2.22	16.10	15.95	0.71
Dogana	113	Tr20_Tp18	32.02	144.08	145.51	145.34	145.77	0.003873	2.26	14.16	15.67	0.76
Dogana	112.5	Tr200_Tp18	58.35	144.04	146.21	145.42	146.46	0.001591	2.20	26.52	12.80	0.49
Dogana	112.5	Tr100_Tp18	48.98	144.04	145.99	145.29	146.21	0.001573	2.07	23.70	12.80	0.48
Dogana	112.5	Tr30_Tp18	35.74	144.04	145.64	145.07	145.82	0.001587	1.86	19.21	12.80	0.48
Dogana	112.5	Tr20_Tp18	32.02	144.04	145.53	145.00	145.70	0.001613	1.80	17.79	12.80	0.49
Dogana	112.1	Tr200_Tp18	58.35	144.01	146.28	145.19	146.41	0.000604	1.62	36.12	17.10	0.35
Dogana	112.1	Tr100_Tp18	48.98	144.01	146.05	145.07	146.17	0.000607	1.52	32.19	17.10	0.35
Dogana	112.1	Tr30_Tp18	35.74	144.01	145.69	144.89	145.78	0.000631	1.38	25.95	17.10	0.36
Dogana	112.1	Tr20_Tp18	32.02	144.01	145.57	144.83	145.66	0.000615	1.33	24.02	16.40	0.35
Dogana	112		Bridge									

HEC-RAS Plan: DSA_perm_18 River: Dogana Reach: Dogana (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	111	Tr200_Tp18	58.35	143.95	146.28	145.26	146.40	0.000633	1.57	37.11	20.40	0.37
Dogana	111	Tr100_Tp18	48.98	143.95	146.04	145.13	146.16	0.000687	1.52	32.32	20.40	0.38
Dogana	111	Tr30_Tp18	35.74	143.95	145.67	144.93	145.77	0.000769	1.44	24.85	18.79	0.40
Dogana	111	Tr20_Tp18	32.02	143.95	145.55	144.86	145.65	0.000785	1.41	22.71	18.02	0.40
Dogana	110.99		Lat Struct									
Dogana	110.5	Tr200_Tp18	58.35	143.95	146.26	145.18	146.38	0.000769	1.55	37.68	20.20	0.36
Dogana	110.5	Tr100_Tp18	48.98	143.95	146.03	145.06	146.14	0.000827	1.49	32.91	20.20	0.37
Dogana	110.5	Tr30_Tp18	35.74	143.95	145.65	144.86	145.75	0.000836	1.39	25.66	17.79	0.37
Dogana	110.5	Tr20_Tp18	32.02	143.95	145.53	144.80	145.63	0.000850	1.36	23.62	17.34	0.37
Dogana	110.49		Lat Struct									
Dogana	110	Tr200_Tp18	58.35	143.84	146.16	145.39	146.35	0.001271	1.95	29.87	16.03	0.46
Dogana	110	Tr100_Tp18	48.98	143.84	145.93	145.24	146.11	0.001345	1.87	26.18	16.01	0.47
Dogana	110	Tr30_Tp18	35.74	143.84	145.55	145.04	145.71	0.001611	1.77	20.18	15.96	0.50
Dogana	110	Tr20_Tp18	32.02	143.84	145.43	144.97	145.59	0.001765	1.75	18.28	15.95	0.52
Dogana	109	Tr200_Tp18	58.35	143.40	145.96	145.24	146.26	0.002037	2.45	23.84	11.38	0.54
Dogana	109	Tr100_Tp18	48.98	143.40	145.76	145.09	146.02	0.001942	2.27	21.53	11.35	0.53
Dogana	109	Tr30_Tp18	35.74	143.40	145.42	144.79	145.63	0.001870	2.02	17.69	11.29	0.52
Dogana	109	Tr20_Tp18	32.02	143.40	145.31	144.71	145.50	0.001875	1.95	16.44	11.27	0.51
Dogana	108	Tr200_Tp18	58.35	143.42	145.32	145.26	146.00	0.006203	3.65	15.99	10.55	0.95
Dogana	108	Tr100_Tp18	48.98	143.42	145.08	145.08	145.75	0.007051	3.63	13.51	10.05	1.00
Dogana	108	Tr30_Tp18	35.74	143.42	144.79	144.79	145.36	0.007243	3.33	10.74	9.48	1.00
Dogana	108	Tr20_Tp18	32.02	143.42	144.70	144.70	145.24	0.007379	3.24	9.89	9.29	1.00
Dogana	107	Tr200_Tp18	58.35	143.17	145.60	144.82	145.81	0.001530	2.05	28.42	16.83	0.50
Dogana	107	Tr100_Tp18	48.98	143.17	145.34	144.67	145.55	0.001625	2.02	24.21	15.41	0.52
Dogana	107	Tr30_Tp18	35.74	143.17	144.94	144.43	145.13	0.001849	1.94	18.39	13.92	0.54
Dogana	107	Tr20_Tp18	32.02	143.17	144.82	144.36	145.00	0.001955	1.92	16.71	13.57	0.55

HEC-RAS Plan: DSA_perm_18 River: Dogana Reach: Dogana (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	106	Tr200_Tp18	58.35	142.93	145.44	144.61	145.67	0.001119	2.15	27.15	12.95	0.47
Dogana	106	Tr100_Tp18	48.98	142.93	145.18	144.47	145.40	0.001161	2.05	23.86	12.93	0.48
Dogana	106	Tr30_Tp18	35.74	142.93	144.78	144.24	144.97	0.001305	1.91	18.67	12.89	0.51
Dogana	106	Tr20_Tp18	32.02	142.93	144.65	144.17	144.83	0.001386	1.88	17.05	12.88	0.52
Dogana	105.5		Bridge									
Dogana	105	Tr200_Tp18	58.35	142.94	145.45	144.52	145.64	0.000825	1.90	30.77	15.46	0.43
Dogana	105	Tr100_Tp18	48.98	142.94	145.19	144.38	145.36	0.000871	1.83	26.81	15.08	0.44
Dogana	105	Tr30_Tp18	35.74	142.94	144.78	144.17	144.93	0.000996	1.72	20.75	14.50	0.46
Dogana	105	Tr20_Tp18	32.02	142.94	144.66	144.10	144.80	0.001061	1.69	18.90	14.32	0.47
Dogana	104	Tr200_Tp18	58.35	142.27	145.17	144.08	145.42	0.002029	2.23	26.12	10.92	0.46
Dogana	104	Tr100_Tp18	48.98	142.27	144.94	143.89	145.16	0.001875	2.07	23.64	10.50	0.44
Dogana	104	Tr30_Tp18	35.74	142.27	144.57	143.61	144.73	0.001632	1.80	19.87	10.09	0.41
Dogana	104	Tr20_Tp18	32.02	142.27	144.45	143.52	144.60	0.001570	1.72	18.67	10.02	0.40
Dogana	103.99		Lat Struct									
Dogana	103	Tr200_Tp18	58.35	142.06	144.91	144.20	145.22	0.002988	2.47	23.62	12.53	0.57
Dogana	103	Tr100_Tp18	48.98	142.06	144.68	144.03	144.96	0.002832	2.34	20.94	11.50	0.55
Dogana	103	Tr30_Tp18	35.74	142.06	144.32	143.75	144.55	0.002788	2.11	16.90	10.98	0.54
Dogana	103	Tr20_Tp18	32.02	142.06	144.20	143.66	144.42	0.002816	2.05	15.61	10.81	0.54
Dogana	102	Tr200_Tp18	58.35	141.69	144.62	143.85	144.92	0.002557	2.42	24.14	11.56	0.53
Dogana	102	Tr100_Tp18	48.98	141.69	144.41	143.68	144.67	0.002436	2.25	21.73	11.29	0.52
Dogana	102	Tr30_Tp18	35.74	141.69	144.06	143.40	144.26	0.002309	2.00	17.85	10.97	0.50
Dogana	102	Tr20_Tp18	32.02	141.69	143.94	143.30	144.13	0.002301	1.93	16.60	10.90	0.50
Dogana	101	Tr200_Tp18	58.35	141.45	143.51	143.51	144.22	0.009068	3.74	15.59	10.89	1.00
Dogana	101	Tr100_Tp18	48.98	141.45	143.33	143.33	143.98	0.009229	3.58	13.68	10.43	1.00
Dogana	101	Tr30_Tp18	35.74	141.45	143.05	143.05	143.60	0.009489	3.29	10.87	9.72	0.99
Dogana	101	Tr20_Tp18	32.02	141.45	142.97	142.96	143.48	0.009388	3.17	10.10	9.52	0.98
Dogana	100	Tr200_Tp18	58.35	141.20	143.25	142.63	143.54	0.001240	2.38	24.50	13.62	0.57

HEC-RAS Plan: DSA_perm_18 River: Dogana Reach: Dogana (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	100	Tr100_Tp18	48.98	141.20	143.04	142.48	143.30	0.001260	2.26	21.64	13.27	0.57
Dogana	100	Tr30_Tp18	35.74	141.20	142.71	142.24	142.92	0.001299	2.06	17.34	12.74	0.56
Dogana	100	Tr20_Tp18	32.02	141.20	142.60	142.17	142.81	0.001319	2.00	16.04	12.57	0.56
Dogana	99.5		Inl Struct									
Dogana	99	Tr200_Tp18	58.35	139.60	142.74	141.06	142.82	0.000367	1.27	45.79	24.05	0.29
Dogana	99	Tr100_Tp18	48.98	139.60	142.36	140.92	142.44	0.000377	1.30	37.55	19.17	0.30
Dogana	99	Tr30_Tp18	35.74	139.60	141.87	140.70	141.95	0.000367	1.22	29.27	16.18	0.29
Dogana	99	Tr20_Tp18	32.02	139.60	141.76	140.63	141.83	0.000354	1.17	27.48	15.90	0.28
Dogana	98	Tr200_Tp18	58.35	140.03	142.64	141.64	142.80	0.001015	1.79	32.60	17.35	0.42
Dogana	98	Tr100_Tp18	48.98	140.03	142.25	141.50	142.43	0.001339	1.88	26.08	15.94	0.47
Dogana	98	Tr30_Tp18	35.74	140.03	141.73	141.28	141.93	0.002013	1.96	18.27	14.41	0.55
Dogana	98	Tr20_Tp18	32.02	140.03	141.62	141.21	141.81	0.002113	1.92	16.69	14.08	0.56
Dogana	97	Tr200_Tp18	58.35	139.23	142.61	141.31	142.75	0.001257	1.65	35.45	19.38	0.39
Dogana	97	Tr100_Tp18	48.98	139.23	142.21	141.15	142.36	0.001443	1.73	28.36	15.78	0.41
Dogana	97	Tr30_Tp18	35.74	139.23	141.69	140.91	141.84	0.001634	1.70	21.05	13.17	0.43
Dogana	97	Tr20_Tp18	32.02	139.23	141.58	140.84	141.72	0.001610	1.63	19.61	12.90	0.42
Dogana	96	Tr200_Tp18	58.35	138.83	142.48	141.12	142.65	0.001326	1.84	31.71	14.55	0.40
Dogana	96	Tr100_Tp18	48.98	138.83	142.06	140.91	142.24	0.001681	1.90	25.76	13.59	0.44
Dogana	96	Tr30_Tp18	35.74	138.83	141.49	140.58	141.68	0.002031	1.91	18.70	11.25	0.47
Dogana	96	Tr20_Tp18	32.02	138.83	141.39	140.48	141.56	0.001890	1.82	17.59	10.76	0.45
Dogana	95	Tr200_Tp18	58.35	138.21	142.40	140.53	142.51	0.000796	1.46	39.88	18.13	0.31
Dogana	95	Tr100_Tp18	48.98	138.21	141.95	140.33	142.07	0.000933	1.52	32.26	15.46	0.34
Dogana	95	Tr30_Tp18	35.74	138.21	141.37	140.02	141.48	0.000960	1.47	24.36	12.38	0.33
Dogana	95	Tr20_Tp18	32.02	138.21	141.28	139.92	141.38	0.000872	1.38	23.24	12.08	0.32
Dogana	94	Tr200_Tp18	58.35	138.08	142.35	140.29	142.43	0.000544	1.24	47.01	20.73	0.26
Dogana	94	Tr100_Tp18	48.98	138.08	141.88	140.07	141.97	0.000728	1.30	37.61	19.33	0.30
Dogana	94	Tr30_Tp18	35.74	138.08	141.28	139.75	141.37	0.000873	1.32	27.15	15.54	0.32
Dogana	94	Tr20_Tp18	32.02	138.08	141.20	139.64	141.28	0.000801	1.24	25.84	15.17	0.30

HEC-RAS Plan: DSA_perm_18 River: Dogana Reach: Dogana (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	93	Tr200_Tp18	58.35	137.75	142.30	141.05	142.36	0.000559	1.12	51.92	27.98	0.26
Dogana	93	Tr100_Tp18	48.98	137.75	141.79	140.71	141.88	0.001033	1.29	38.01	26.66	0.34
Dogana	93	Tr30_Tp18	35.74	137.75	140.97	140.44	141.17	0.004561	2.00	17.84	19.44	0.67
Dogana	93	Tr20_Tp18	32.02	137.75	140.91	140.35	141.09	0.003097	1.90	16.85	14.45	0.56
Dogana	92	Tr200_Tp18	58.35	137.29	142.29	139.64	142.32	0.000213	0.76	77.04	36.81	0.17
Dogana	92	Tr100_Tp18	48.98	137.29	141.78	139.45	141.81	0.000244	0.81	60.29	28.26	0.18
Dogana	92	Tr30_Tp18	35.74	137.29	140.92	139.16	140.97	0.000520	0.94	37.84	25.19	0.25
Dogana	92	Tr20_Tp18	32.02	137.29	140.88	139.06	140.92	0.000460	0.87	36.67	25.06	0.23
Dogana	91	Tr200_Tp18	58.35	137.37	142.27	139.24	142.30	0.000184	0.76	77.00	32.78	0.16
Dogana	91	Tr100_Tp18	48.98	137.37	141.75	139.07	141.79	0.000209	0.79	62.15	27.30	0.17
Dogana	91	Tr30_Tp18	35.74	137.37	140.90	138.79	140.93	0.000262	0.85	42.13	19.39	0.18
Dogana	91	Tr20_Tp18	32.02	137.37	140.85	138.71	140.88	0.000222	0.77	41.34	19.27	0.17
Dogana	90	Tr200_Tp18	58.35	137.13	142.27	138.88	142.30	0.000196	0.75	77.37	34.22	0.16
Dogana	90	Tr100_Tp18	48.98	137.13	141.75	138.73	141.78	0.000172	0.78	62.73	23.07	0.15
Dogana	90	Tr30_Tp18	35.74	137.13	140.90	138.48	140.93	0.000166	0.76	46.81	17.06	0.15
Dogana	90	Tr20_Tp18	32.02	137.13	140.86	138.39	140.88	0.000139	0.69	46.11	16.98	0.13
Dogana	89.2	Tr200_Tp18	58.35	137.54	142.27	139.13	142.30	0.000128	0.69	84.13	30.68	0.13
Dogana	89.2	Tr100_Tp18	48.98	137.54	141.75	138.99	141.78	0.000167	0.71	68.53	29.36	0.15
Dogana	89.2	Tr30_Tp18	35.74	137.54	140.89	138.76	140.92	0.000277	0.80	44.81	23.75	0.19
Dogana	89.2	Tr20_Tp18	32.02	137.54	140.85	138.69	140.88	0.000229	0.73	43.86	22.99	0.17
Dogana	89	Tr200_Tp18	58.35	137.66	142.27	139.12	142.29	0.000117	0.70	82.92	26.05	0.13
Dogana	89	Tr100_Tp18	48.98	137.66	141.75	138.96	141.78	0.000140	0.70	69.54	25.55	0.14
Dogana	89	Tr30_Tp18	35.74	137.66	140.89	138.72	140.92	0.000214	0.74	48.41	23.11	0.16
Dogana	89	Tr20_Tp18	32.02	137.66	140.85	138.64	140.87	0.000182	0.67	47.48	22.97	0.15
Dogana	88.5		Bridge									
Dogana	88	Tr200_Tp18	58.35	137.66	142.24	139.12	142.27	0.000120	0.71	82.19	26.05	0.13
Dogana	88	Tr100_Tp18	48.98	137.66	141.75	138.96	141.78	0.000140	0.70	69.53	25.54	0.14

HEC-RAS Plan: DSA_perm_18 River: Dogana Reach: Dogana (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Dogana	88	Tr30_Tp18	35.74	137.66	140.89	138.72	140.92	0.000215	0.74	48.40	23.11	0.16
Dogana	88	Tr20_Tp18	32.02	137.66	140.85	138.64	140.87	0.000182	0.67	47.47	22.97	0.15
Dogana	87.3	Tr200_Tp18	58.35	137.66	142.24	139.12	142.27	0.000120	0.71	82.19	26.05	0.13
Dogana	87.3	Tr100_Tp18	48.98	137.66	141.75	138.96	141.78	0.000140	0.70	69.52	25.54	0.14
Dogana	87.3	Tr30_Tp18	35.74	137.66	140.89	138.72	140.92	0.000215	0.74	48.40	23.11	0.16
Dogana	87.3	Tr20_Tp18	32.02	137.66	140.85	138.64	140.87	0.000182	0.67	47.47	22.97	0.15
Dogana	87	Tr200_Tp18	58.35	137.66	142.24	139.12	142.27	0.000120	0.71	82.19	26.05	0.13
Dogana	87	Tr100_Tp18	48.98	137.66	141.75	138.96	141.78	0.000140	0.70	69.52	25.54	0.14
Dogana	87	Tr30_Tp18	35.74	137.66	140.89	138.72	140.92	0.000215	0.74	48.39	23.11	0.16
Dogana	87	Tr20_Tp18	32.02	137.66	140.85	138.64	140.87	0.000182	0.67	47.47	22.97	0.15
Dogana	80	Tr200_Tp18	58.35	134.80	142.24	136.24	142.25	0.000049	0.51	116.14	36.99	0.08
Dogana	80	Tr100_Tp18	48.98	134.80	141.75	136.08	141.76	0.000050	0.48	101.96	27.93	0.08
Dogana	80	Tr30_Tp18	35.74	134.80	140.89	135.84	140.90	0.000051	0.44	80.47	23.11	0.08
Dogana	80	Tr20_Tp18	32.02	134.80	140.85	135.77	140.86	0.000043	0.40	79.54	22.97	0.07

borro dell'Ornaccio

verifiche con Tpioggia critico per il Borro dell'Ornaccio

- moto vario

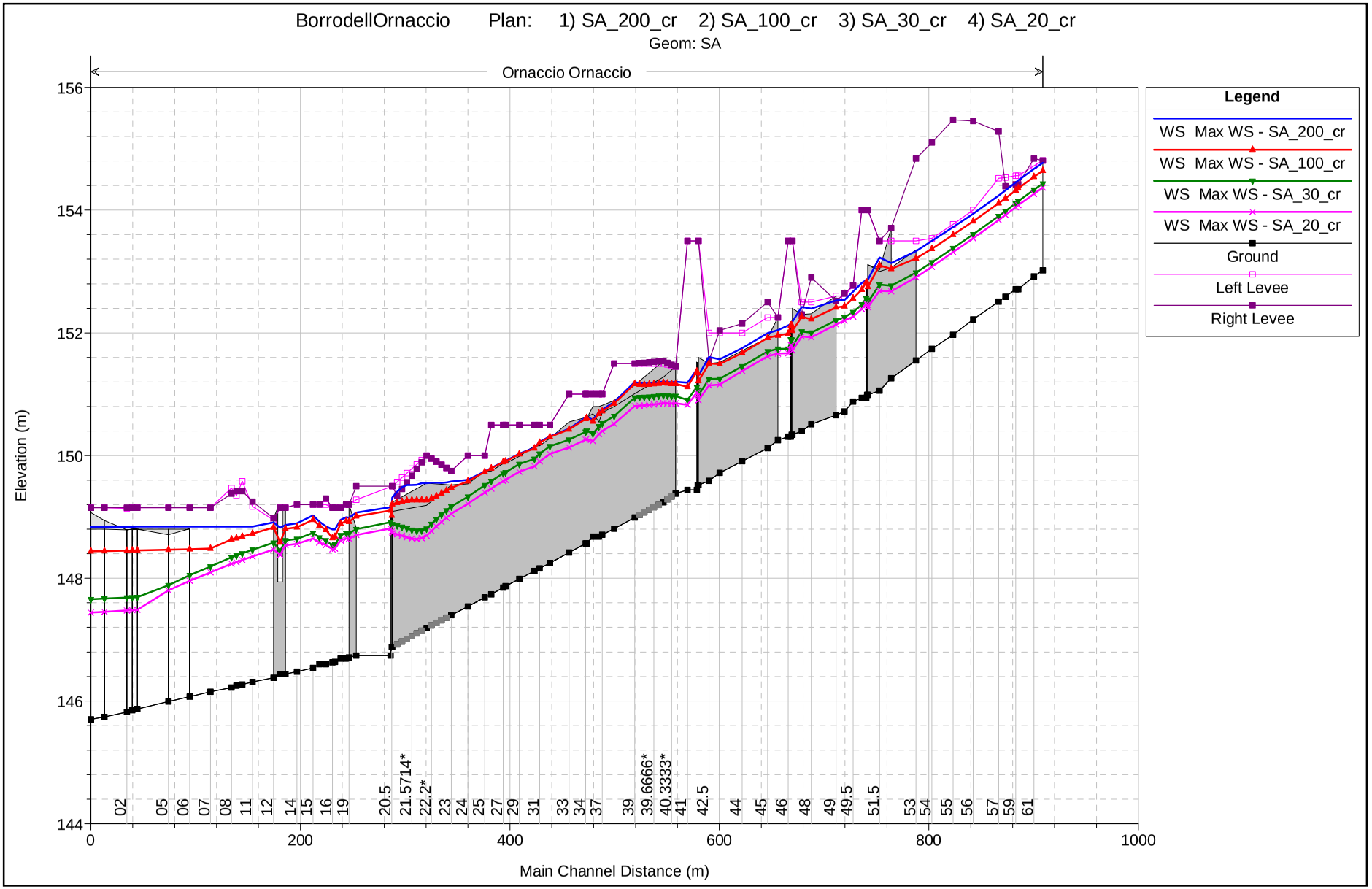
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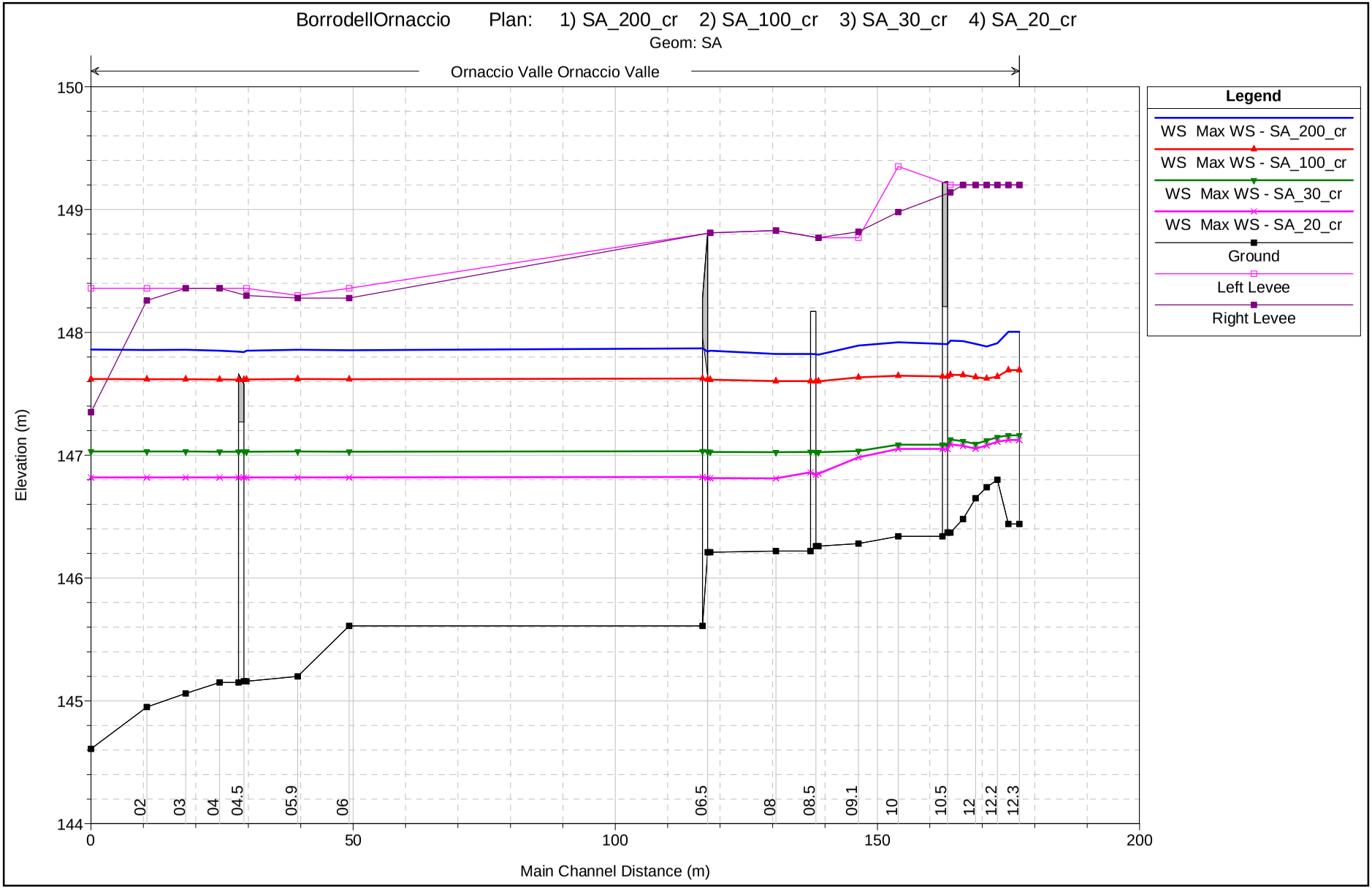
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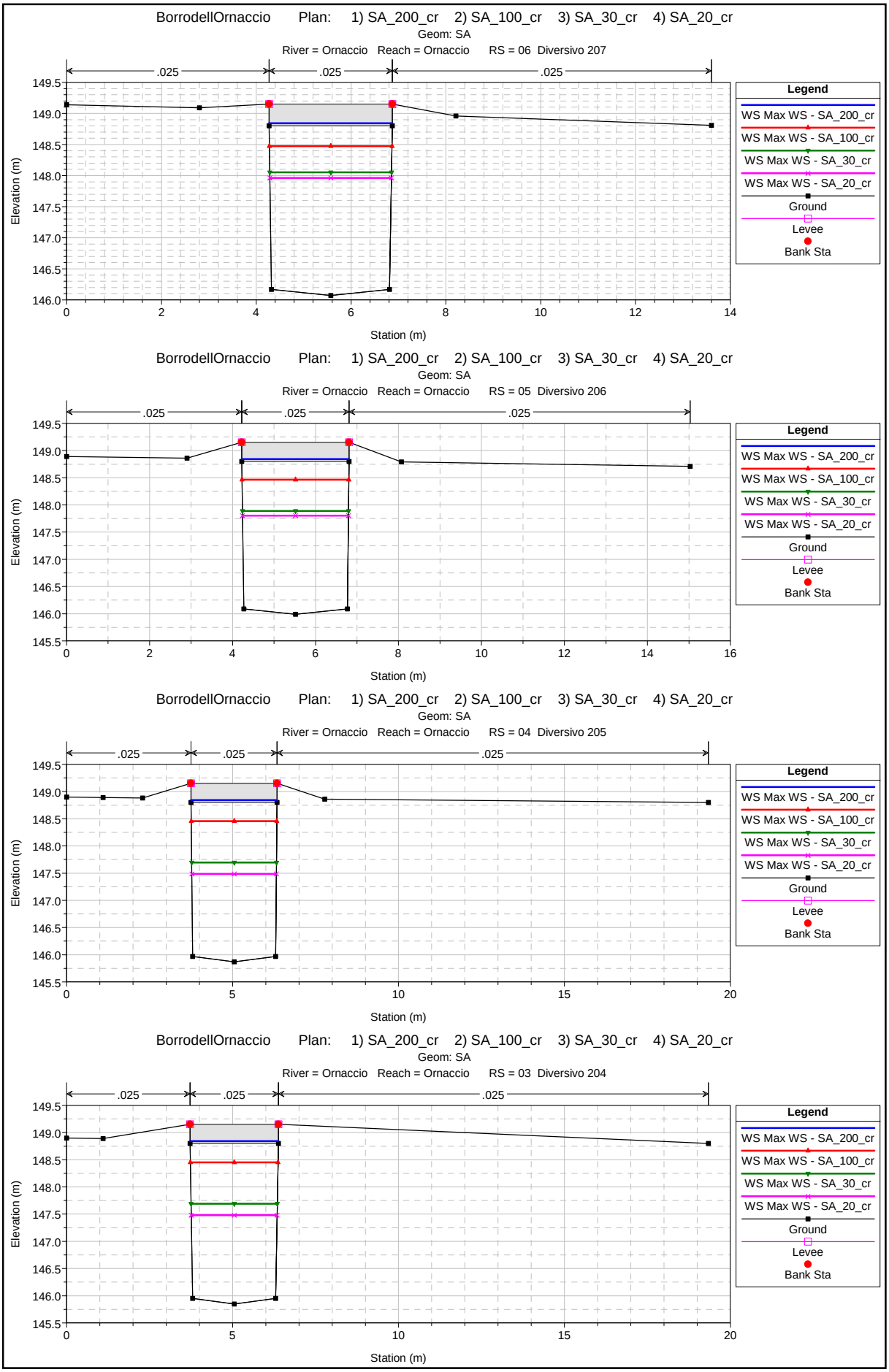
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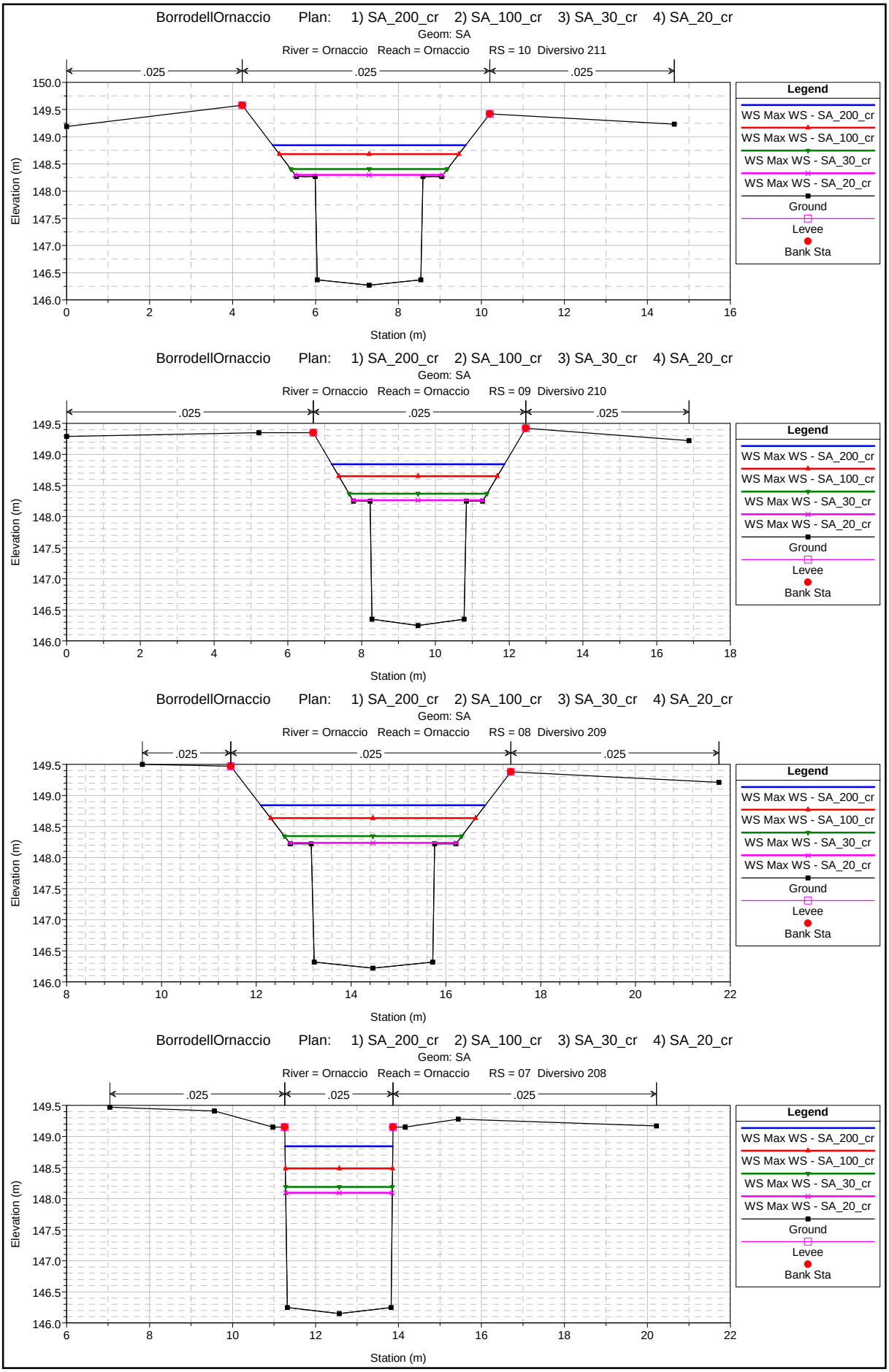
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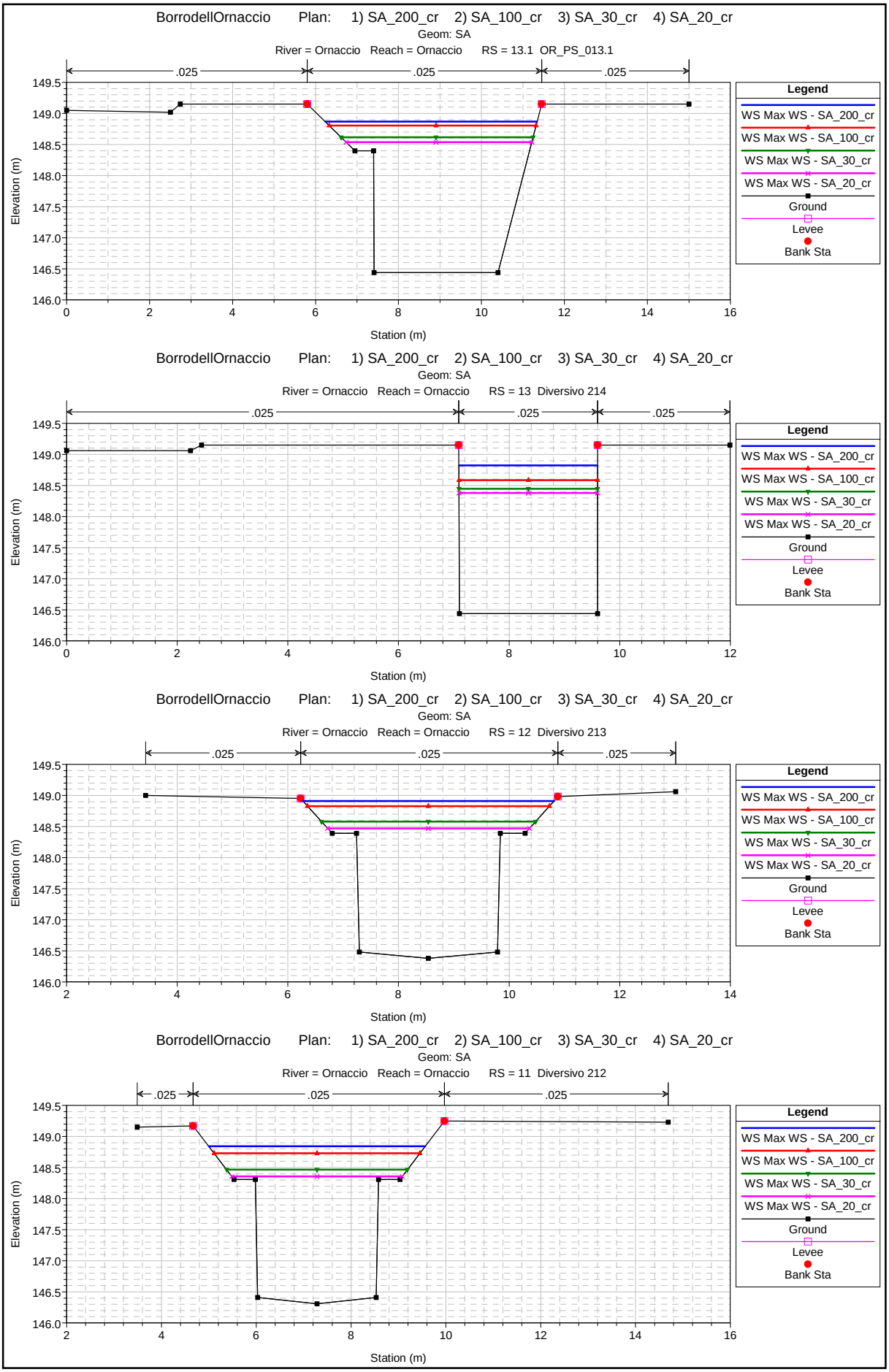
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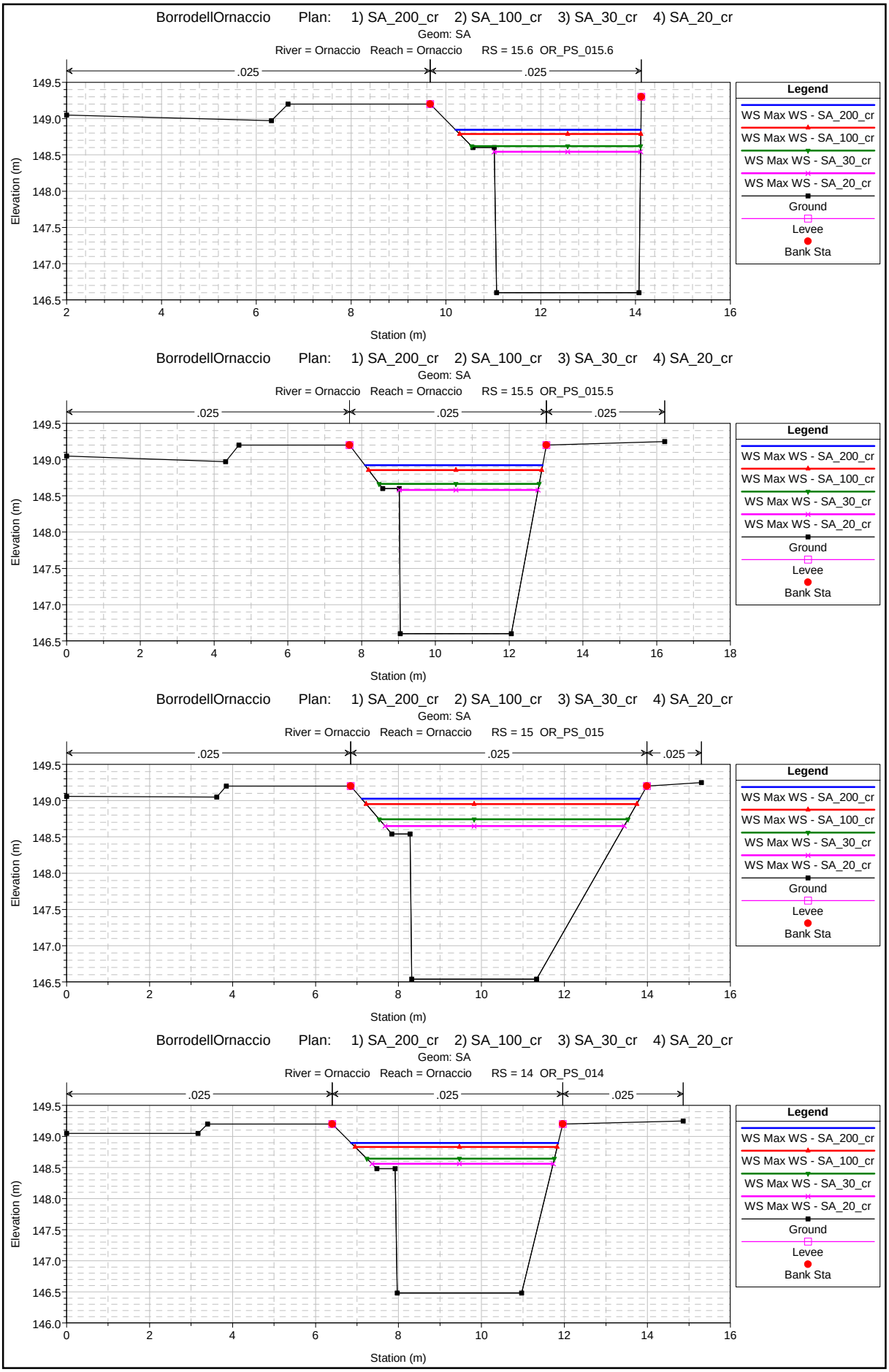

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
Ornaccio Ornaccio
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
156
154
152
150
148
146
144
0
200
400
600
800
1000
02
05
06
07
08
11
12
14
15
16
19
20.5
21.5714*
22.2*
23
24
25
27
29
31
33
34
37
39
39.6666*
40.3333*
41
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44
45
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48
49
49.5
51.5
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54
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56
57
59
61

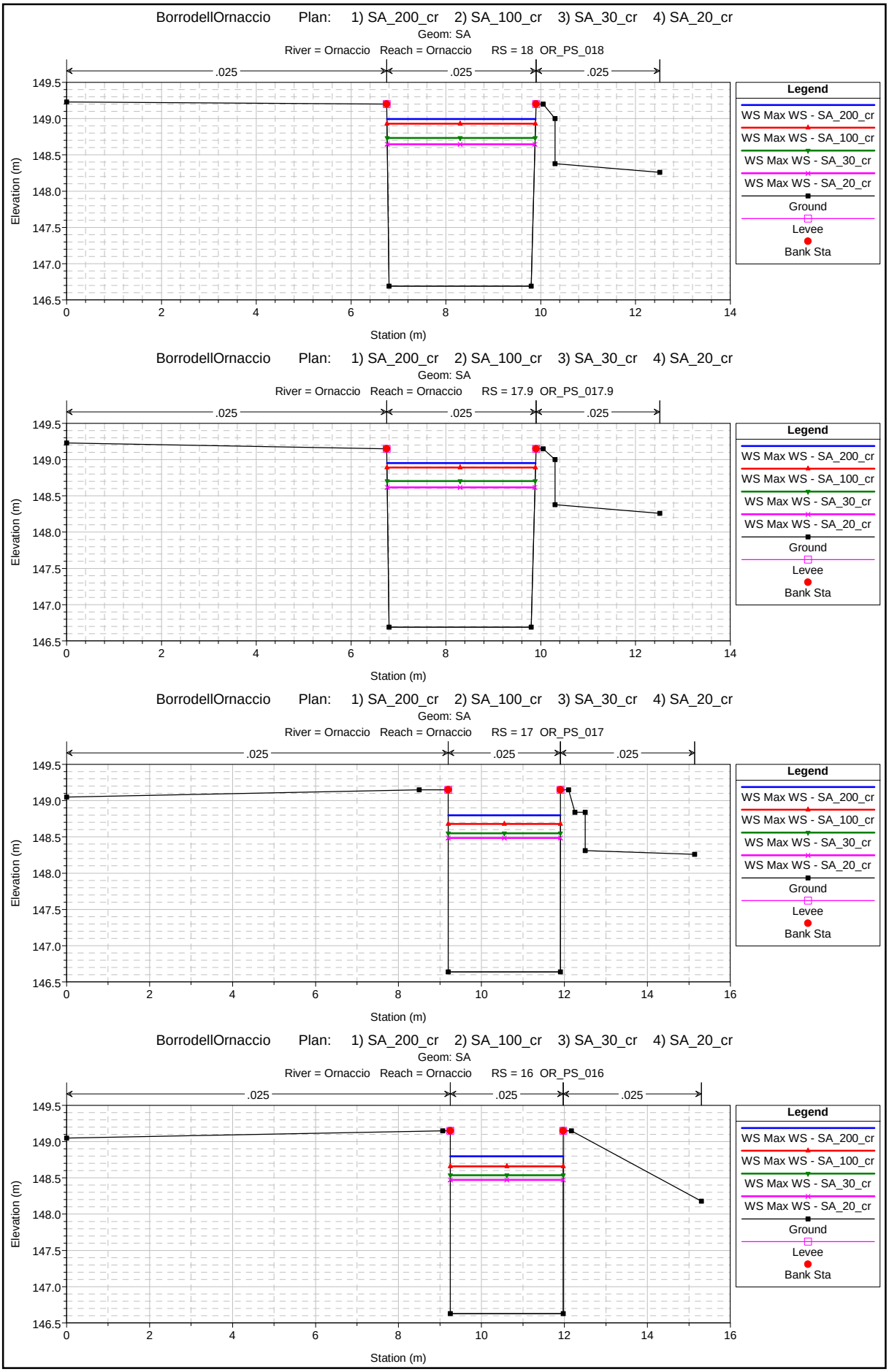

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
Ornaccio Valle Ornaccio Valle
Elevation (m)
Main Channel Distance (m)
150
149
148
147
146
145
144
0
50
100
150
200
02
03
04
04.5
05.9
06
06.5
08
08.5
09.1
10
10.5
12
12.2
12.3
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Left Levee
Right Levee

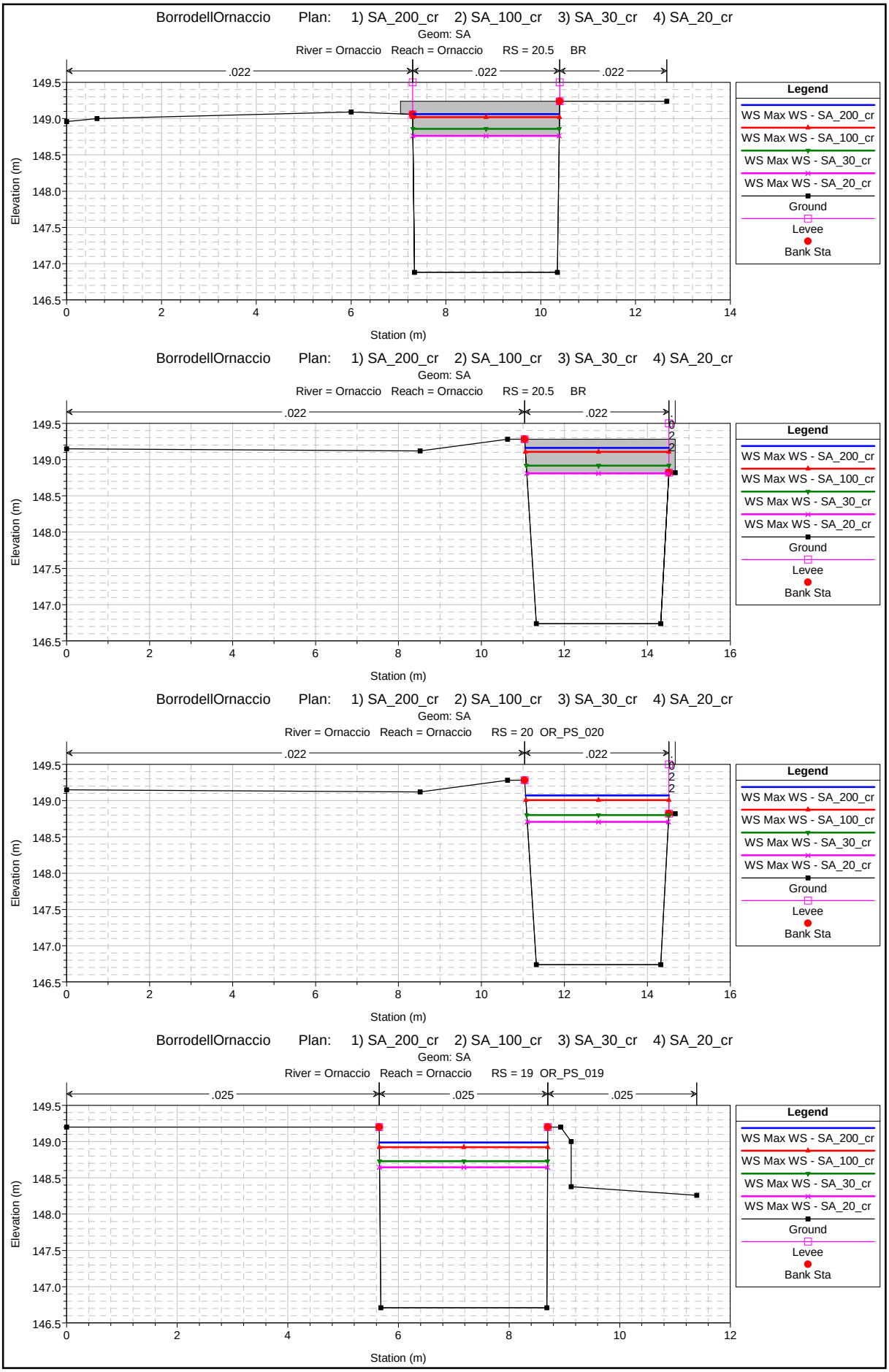

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 06 Diversivo 207
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 05 Diversivo 206
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 04 Diversivo 205
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 03 Diversivo 204
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

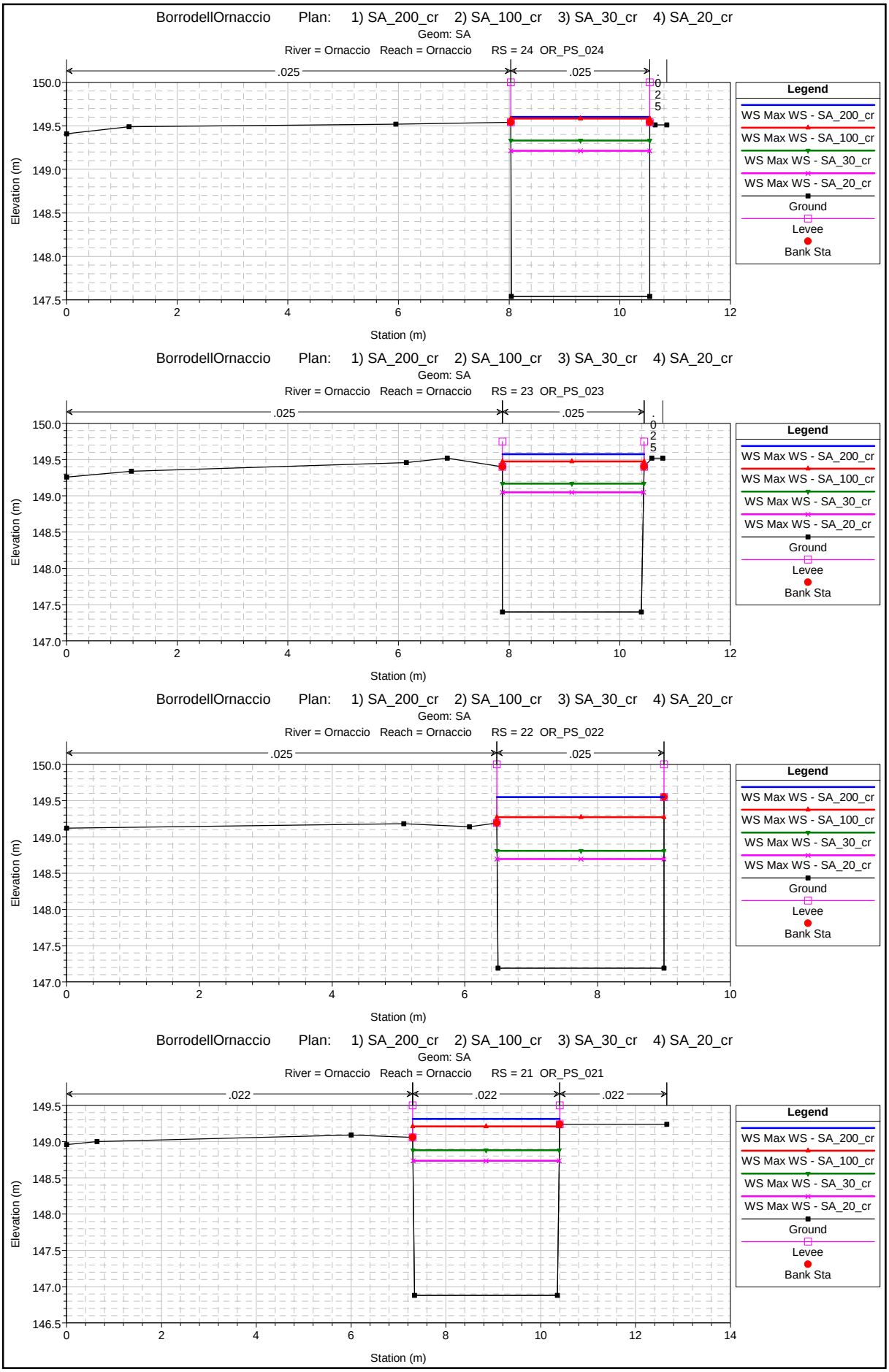

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 10 Diversivo 211
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 09 Diversivo 210
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 08 Diversivo 209
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 07 Diversivo 208
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

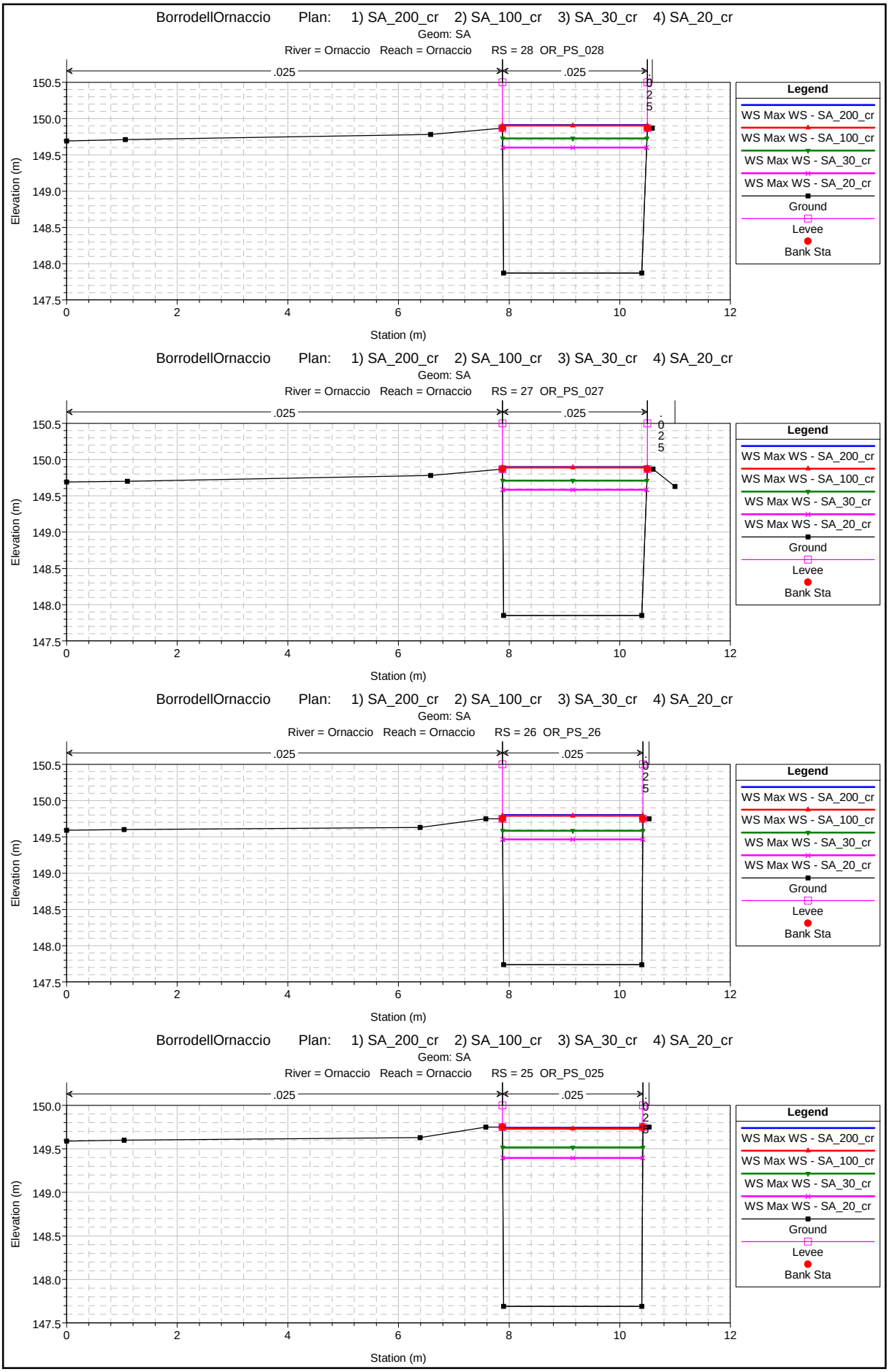

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 13.1 OR_PS_013.1
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 13 Diversivo 214
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 12 Diversivo 213
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 11 Diversivo 212
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

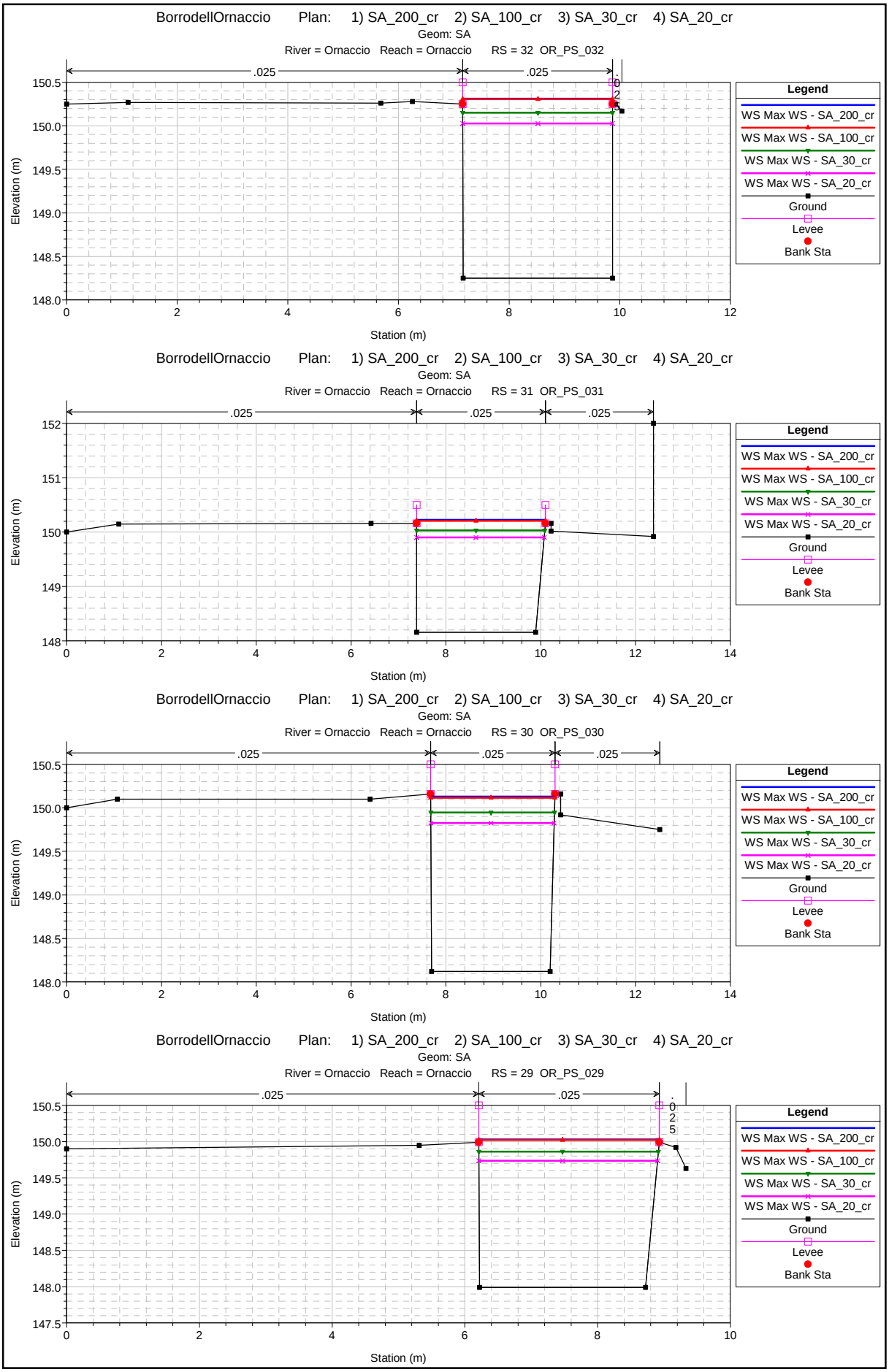

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 15.6 OR_PS_015.6
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 15.5 OR_PS_015.5
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 15 OR_PS_015
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 14 OR_PS_014
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

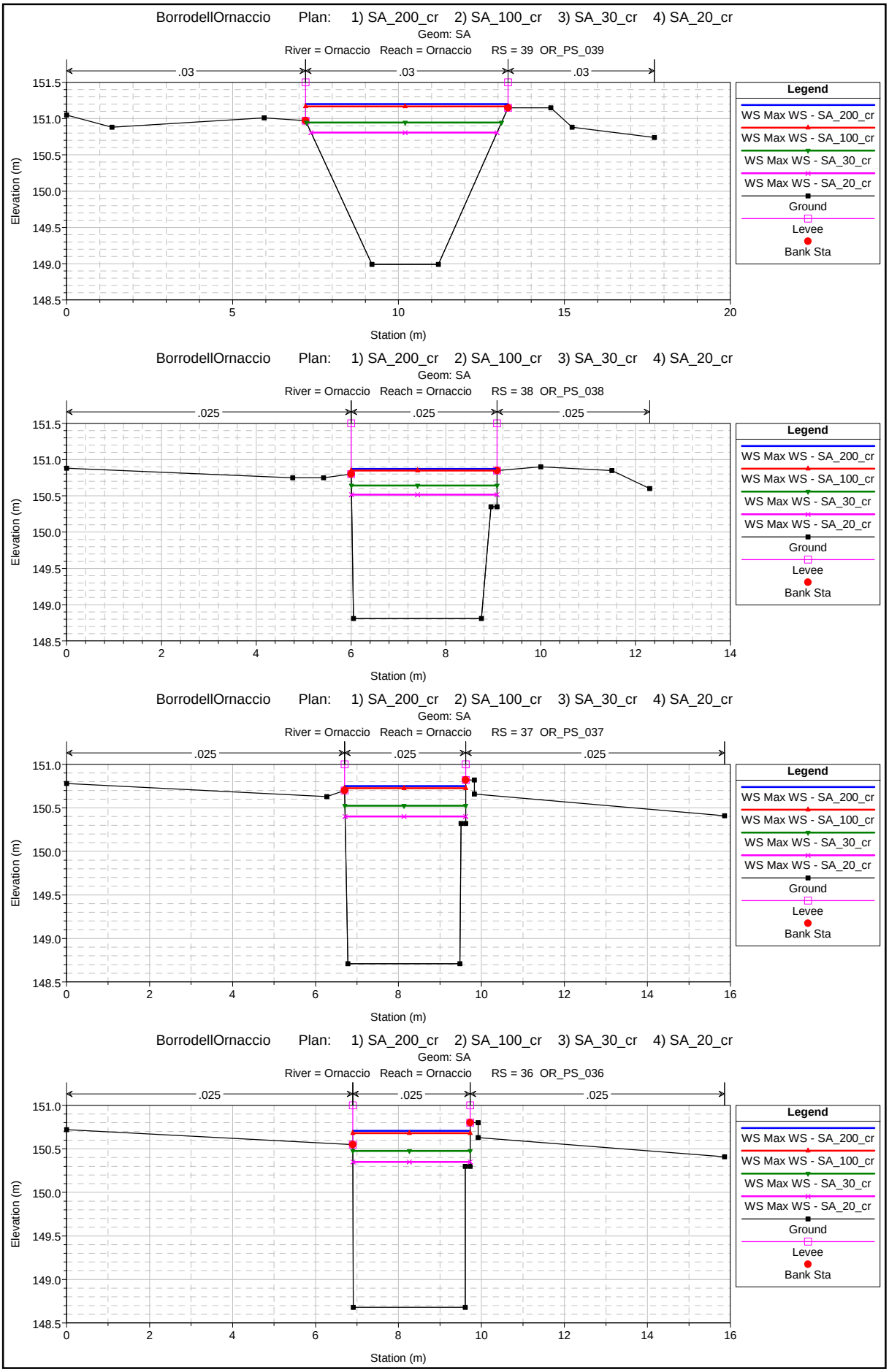

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 18 OR_PS_018
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 17.9 OR_PS_017.9
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 17 OR_PS_017
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 16 OR_PS_016
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

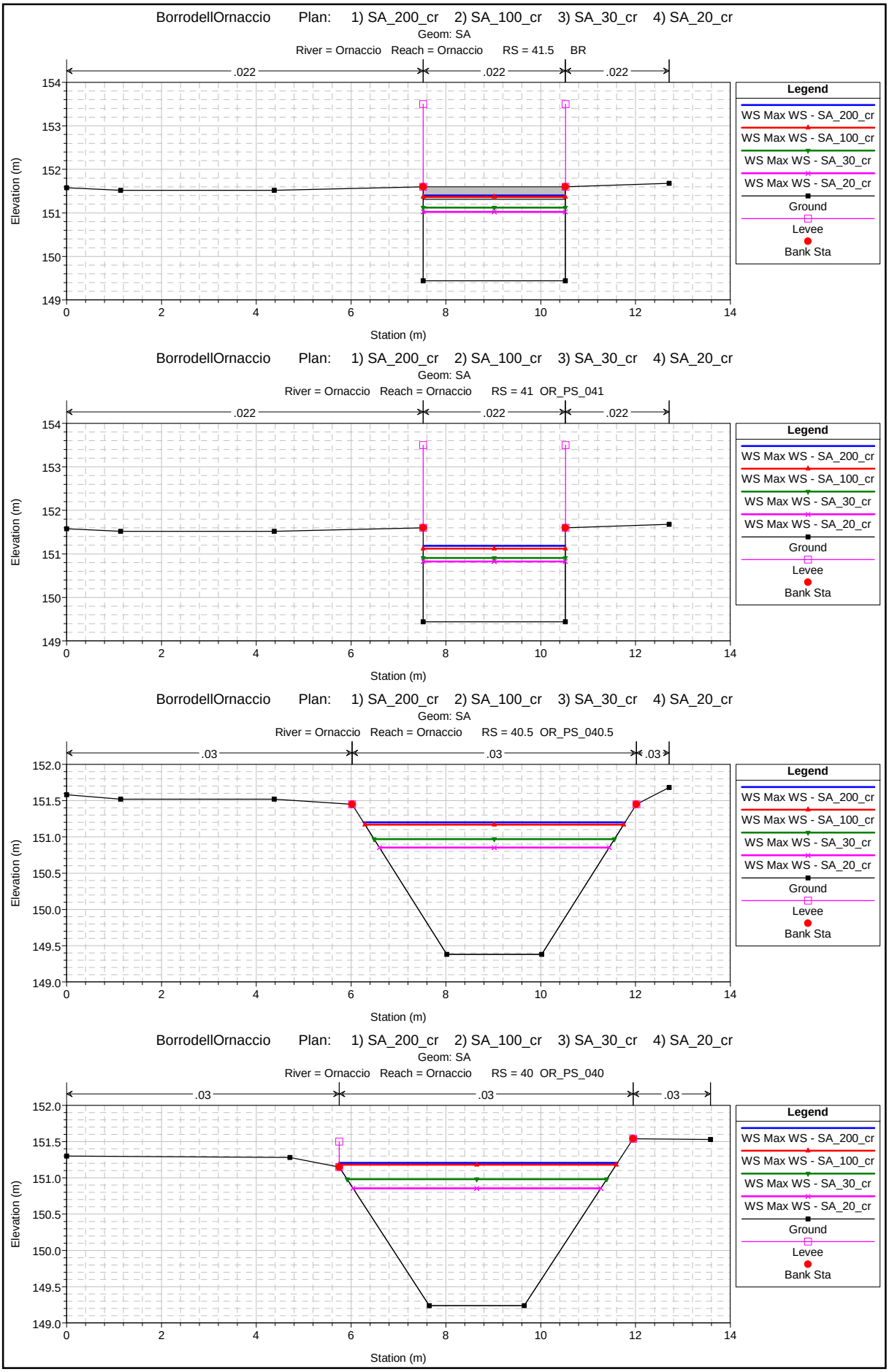

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 20.5 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 20.5 BR
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 20 OR_PS_020
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 19 OR_PS_019
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

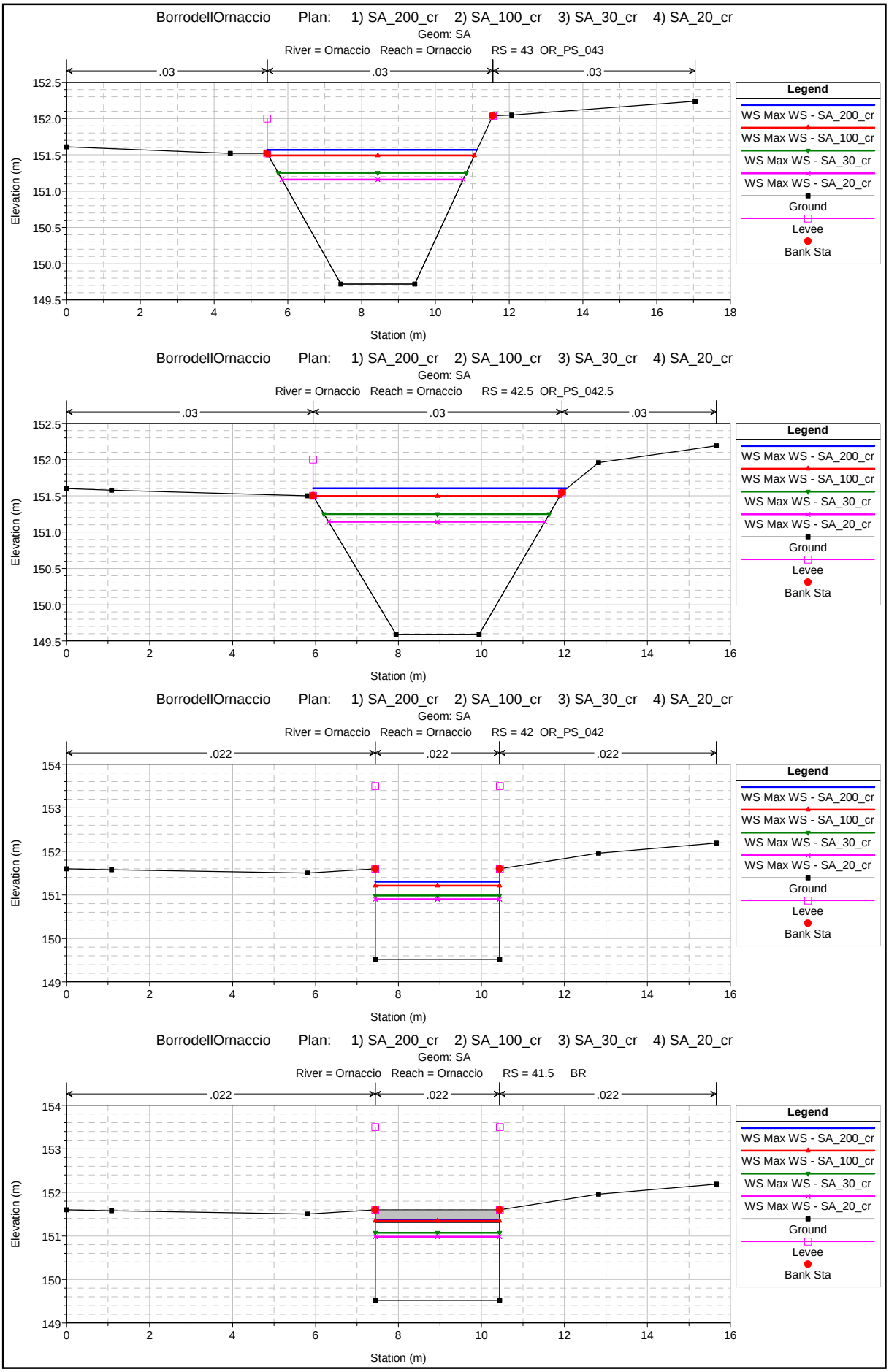

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 24 OR_PS_024
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 23 OR_PS_023
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 22 OR_PS_022
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 21 OR_PS_021
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

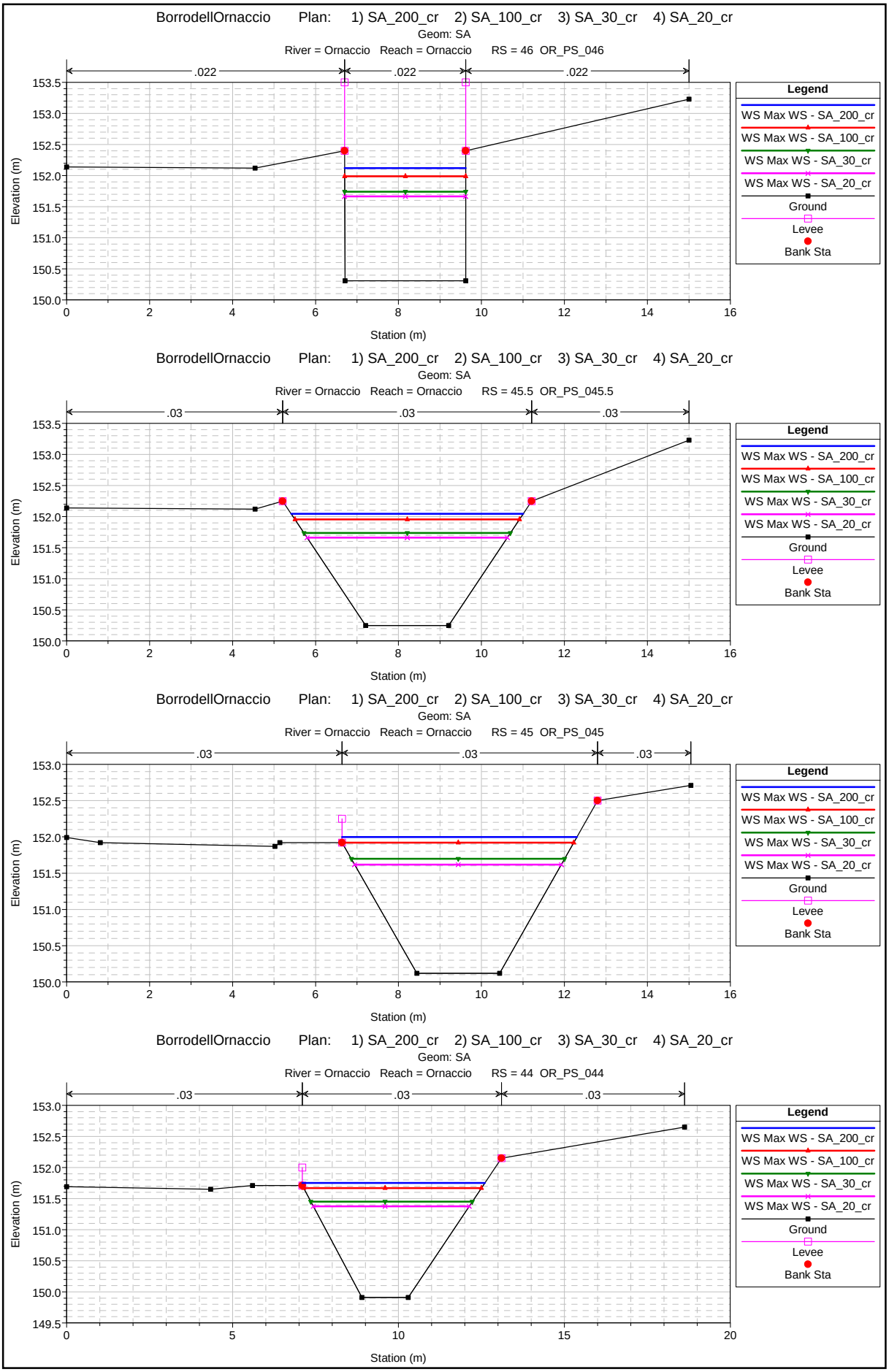

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 28 OR_PS_028
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 27 OR_PS_027
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 26 OR_PS_26
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 25 OR_PS_025
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

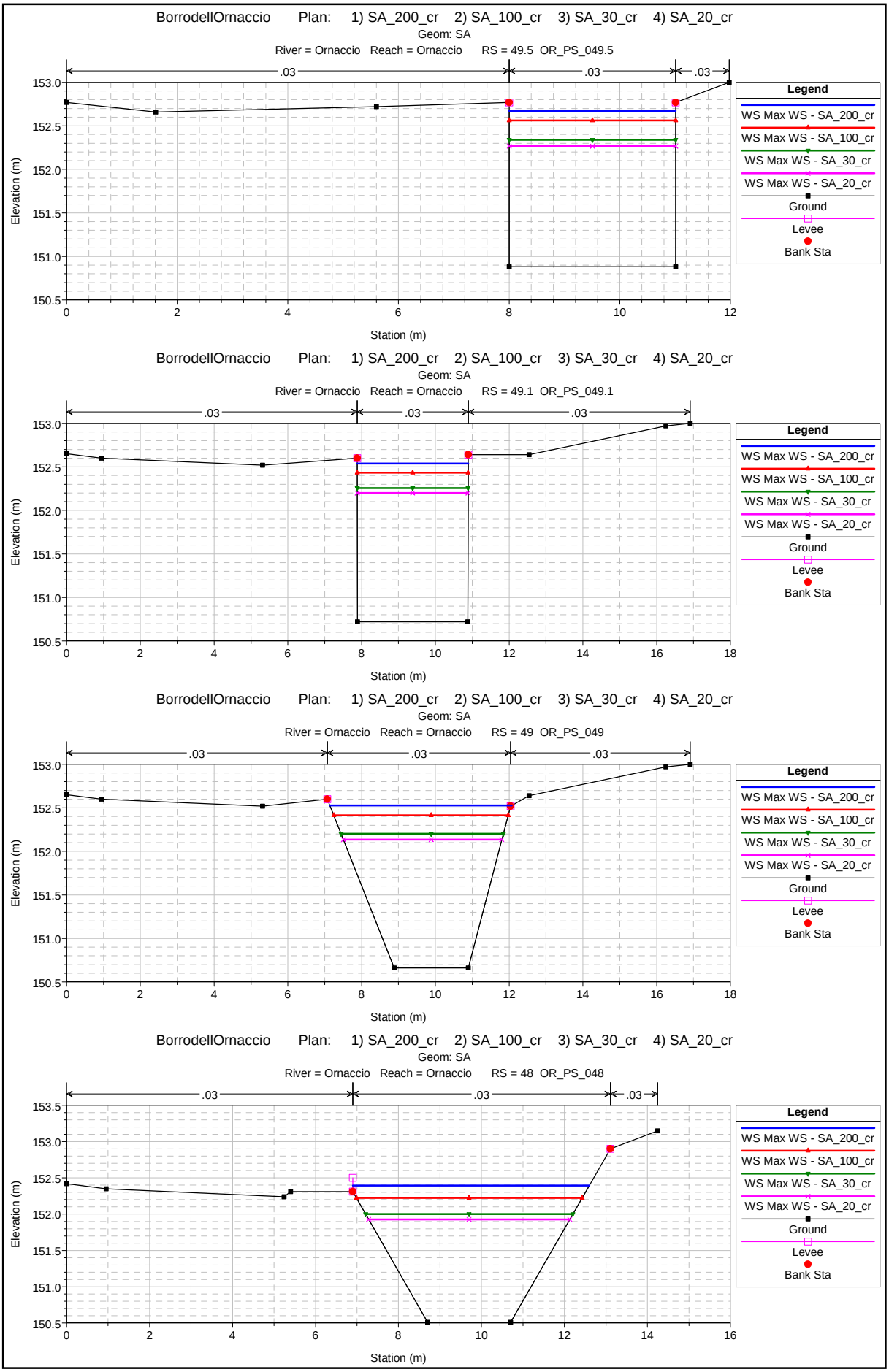

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 32 OR_PS_032
.025
.025
.02
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 31 OR_PS_031
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 30 OR_PS_030
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 29 OR_PS_029
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

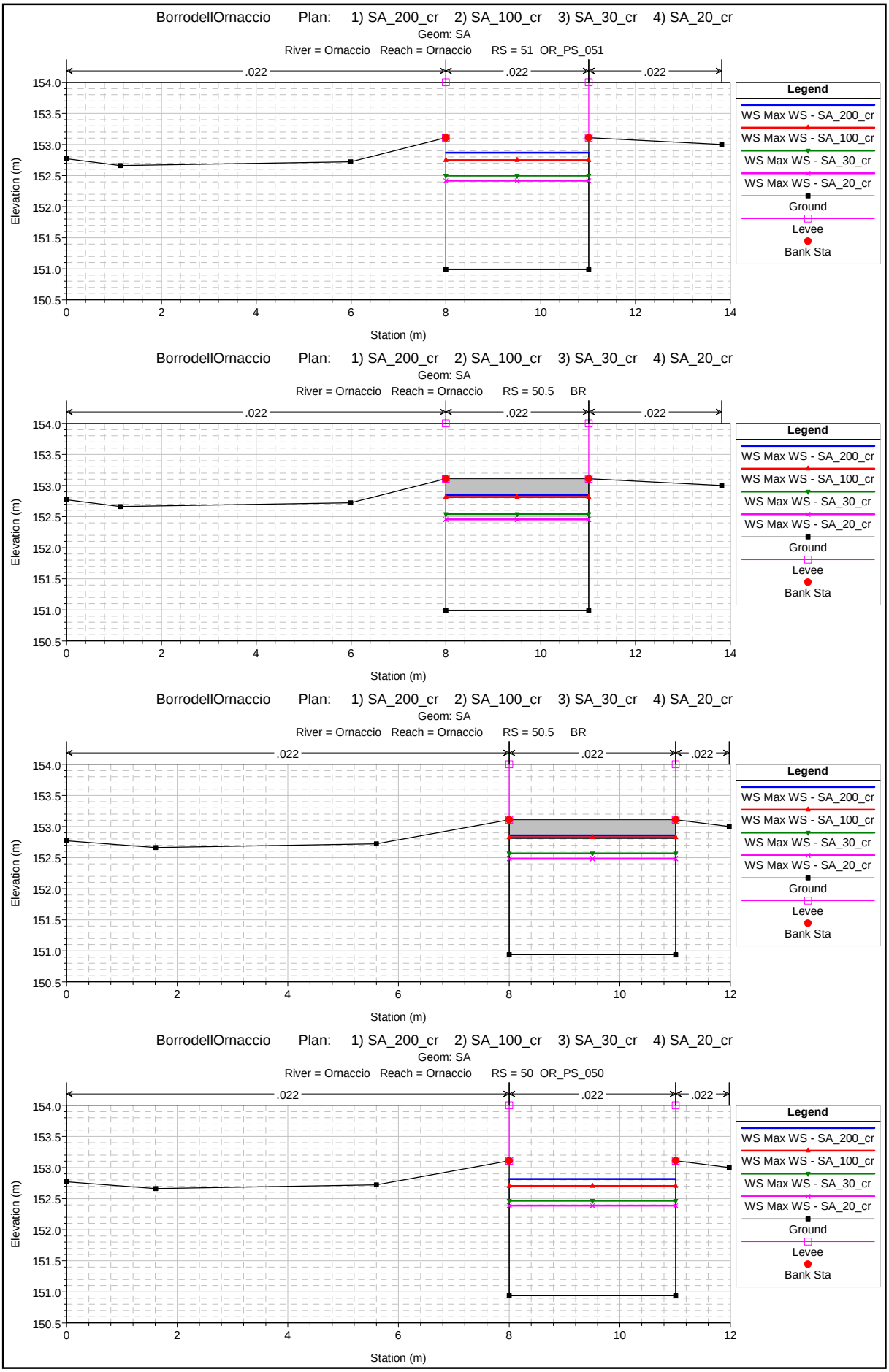

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 39 OR_PS_039
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 38 OR_PS_038
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 37 OR_PS_037
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 36 OR_PS_036
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

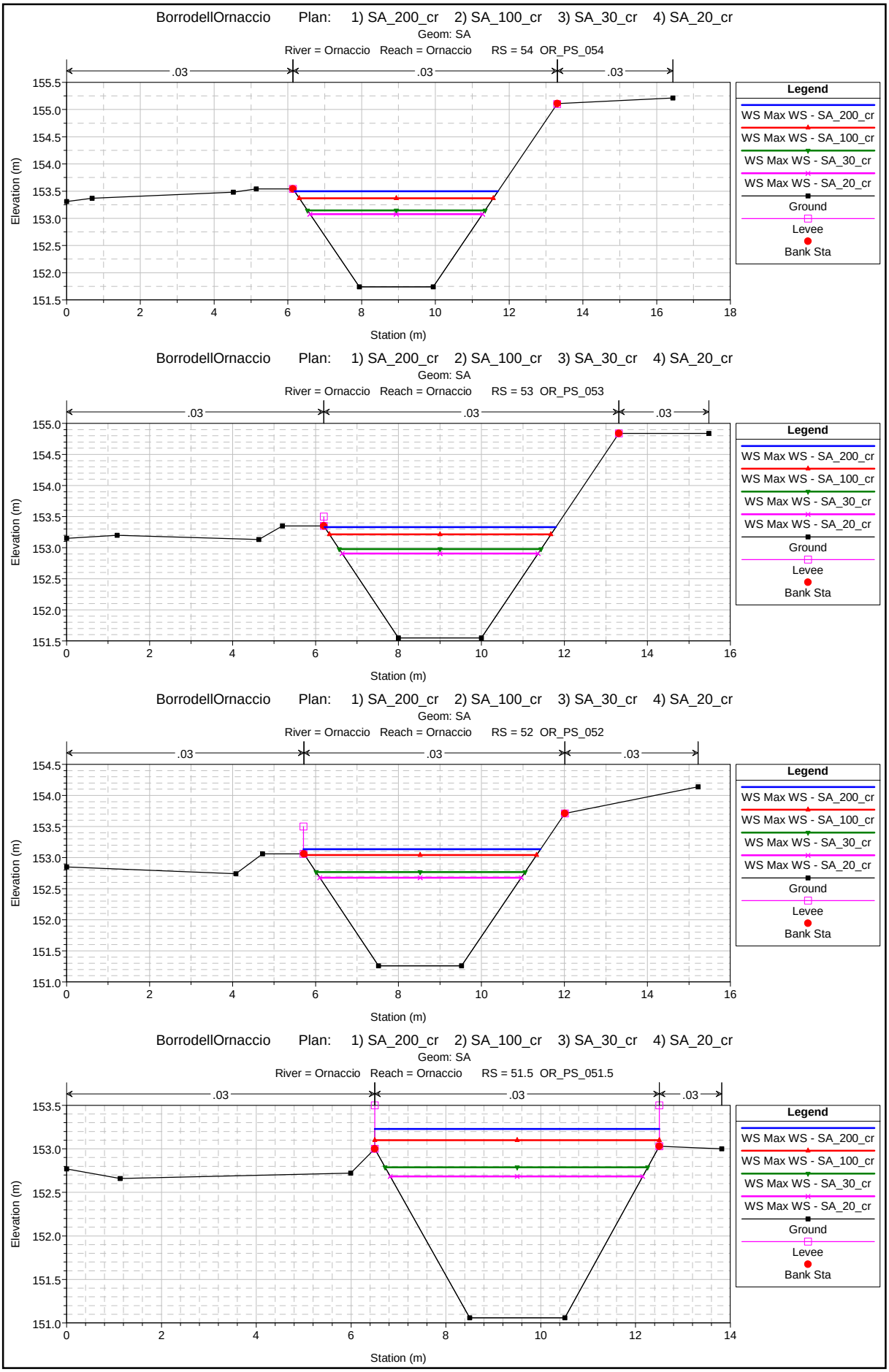

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 41.5 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 41 OR_PS_041
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 40.5 OR_PS_040.5
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 40 OR_PS_040
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

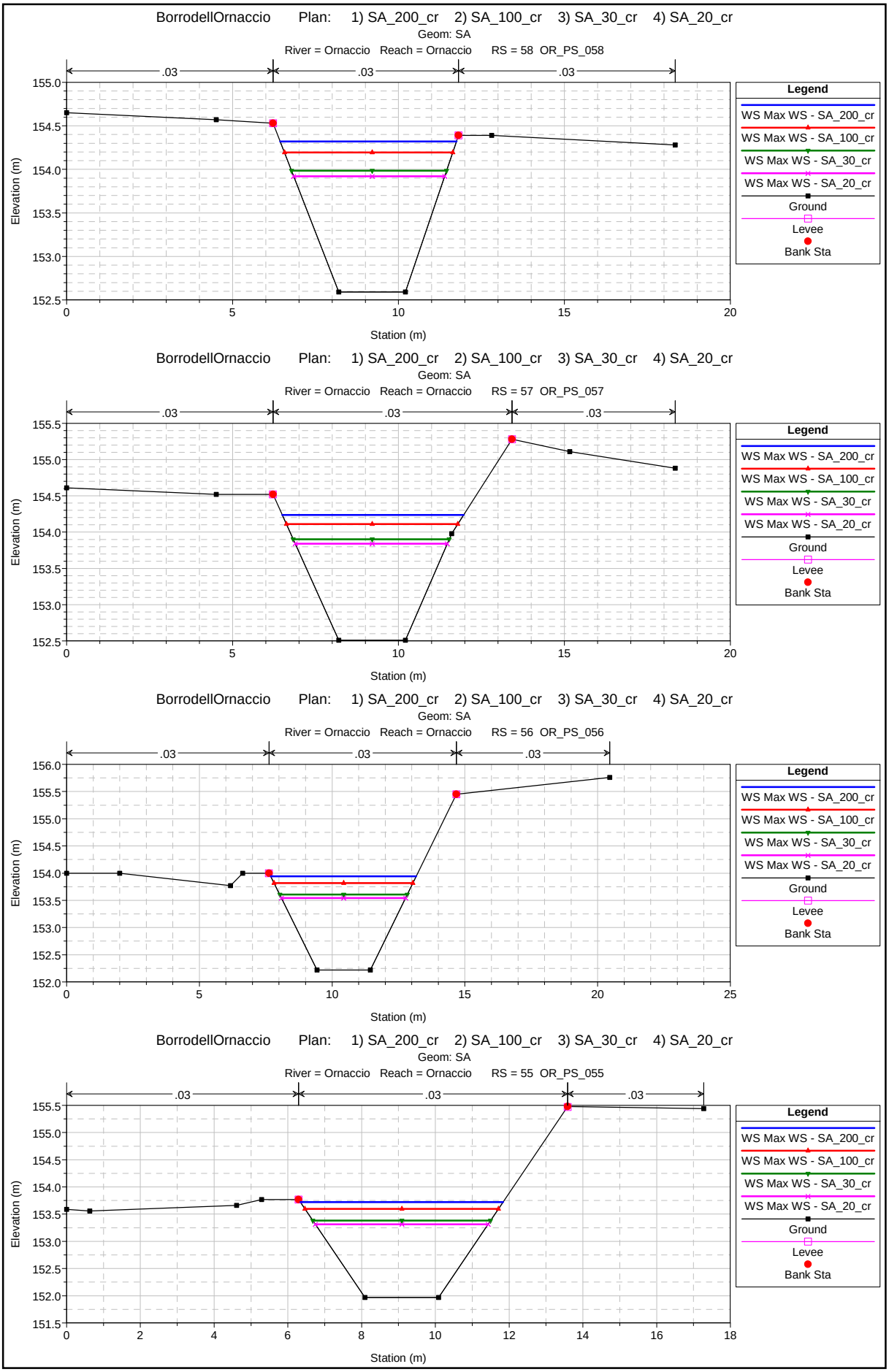

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 43 OR_PS_043
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 42.5 OR_PS_042.5
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 42 OR_PS_042
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 41.5 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

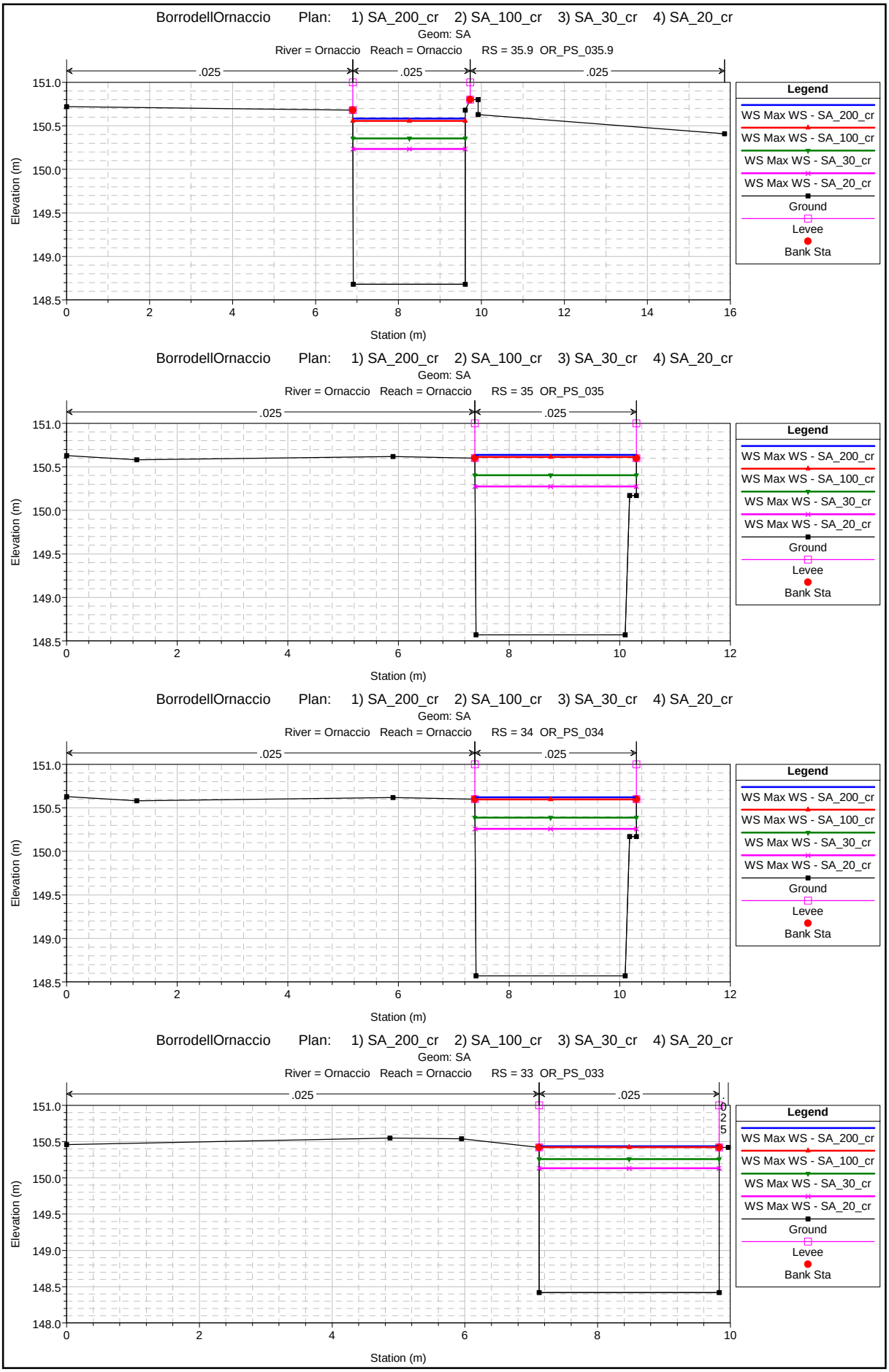

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 46 OR_PS_046
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 45.5 OR_PS_045.5
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 45 OR_PS_045
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 44 OR_PS_044
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

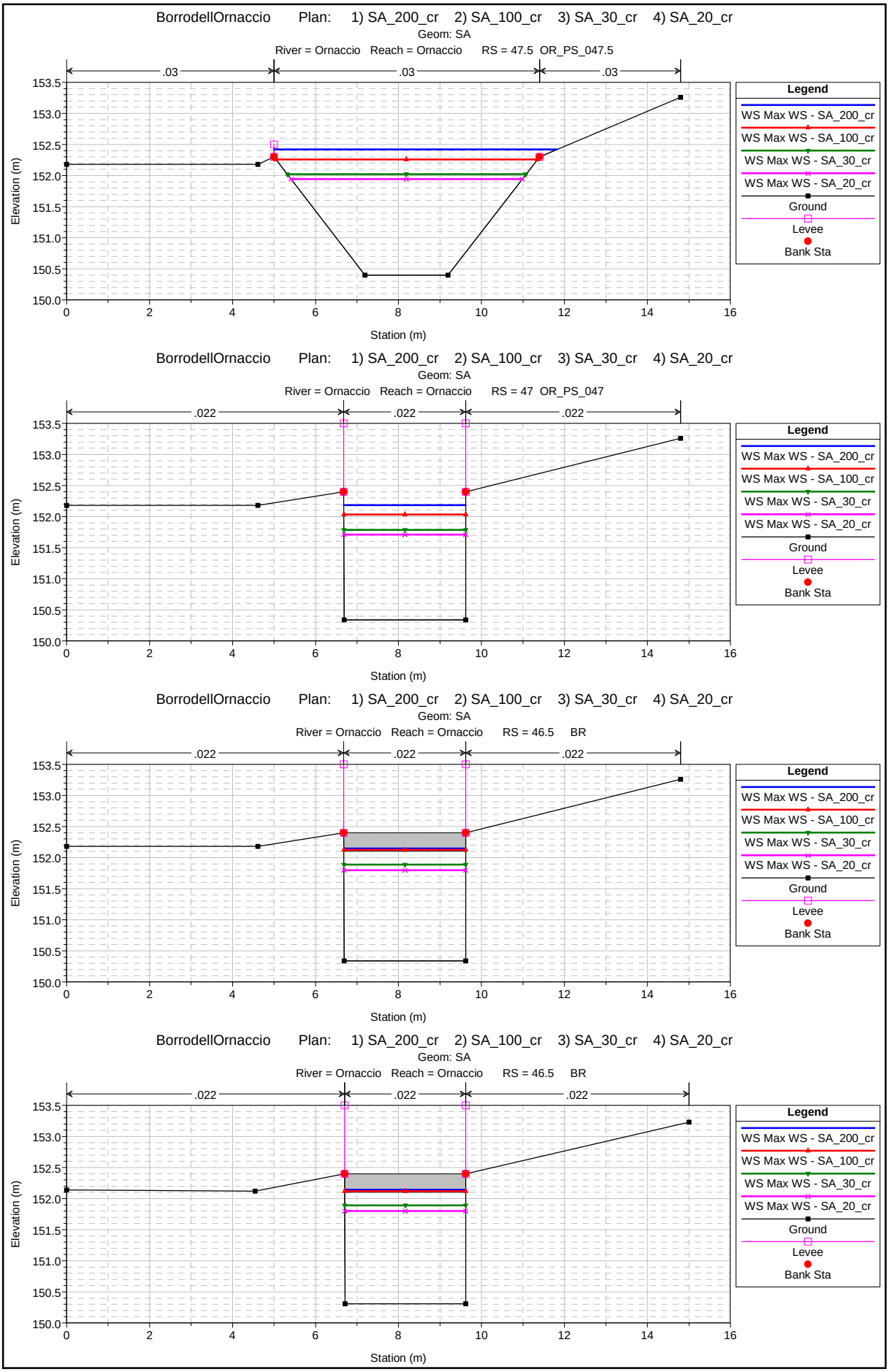

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 49.5 OR_PS_049.5
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 49.1 OR_PS_049.1
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 49 OR_PS_049
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 48 OR_PS_048
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

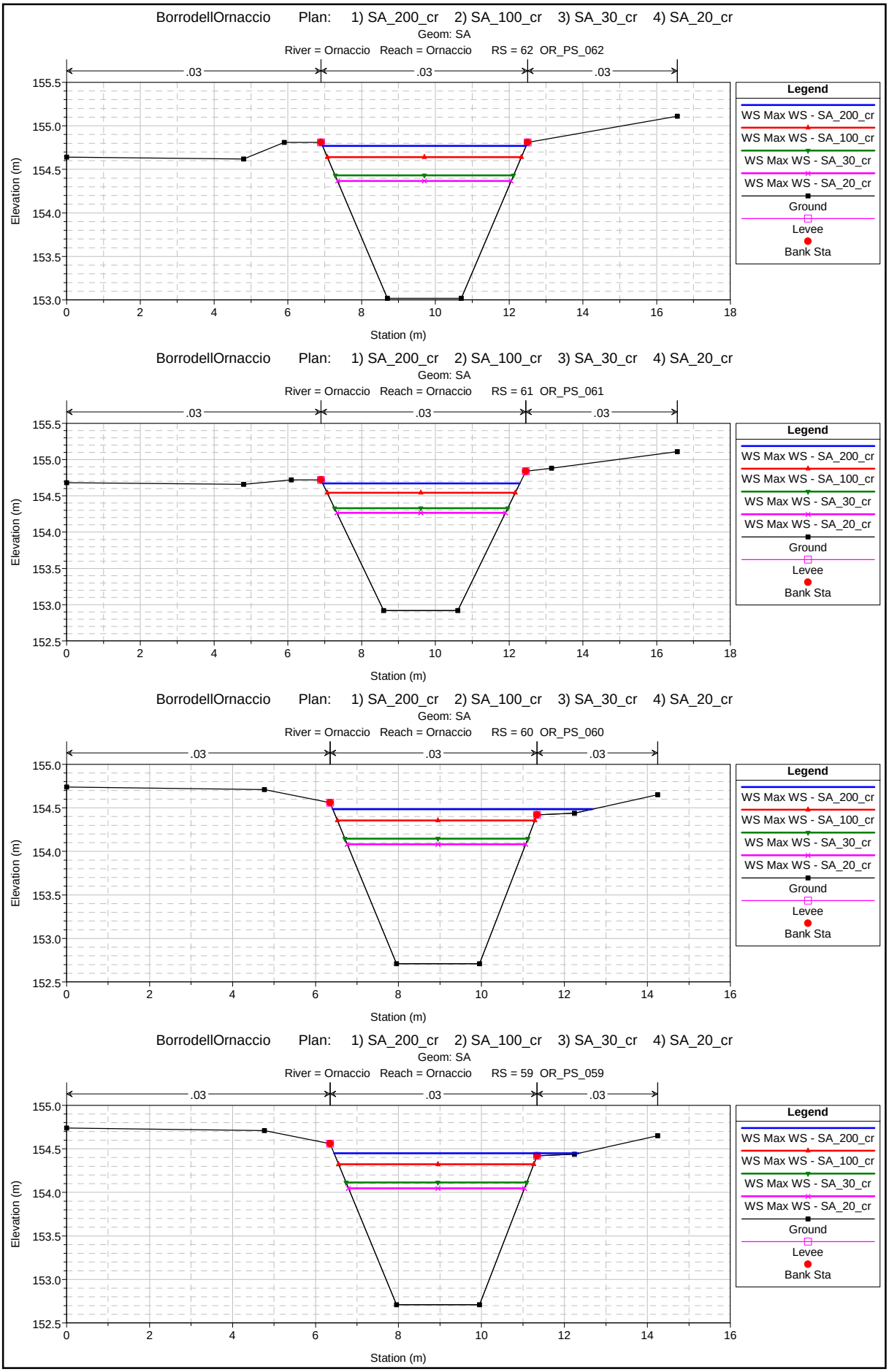

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 51 OR_PS_051
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 50.5 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 50.5 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 50 OR_PS_050
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

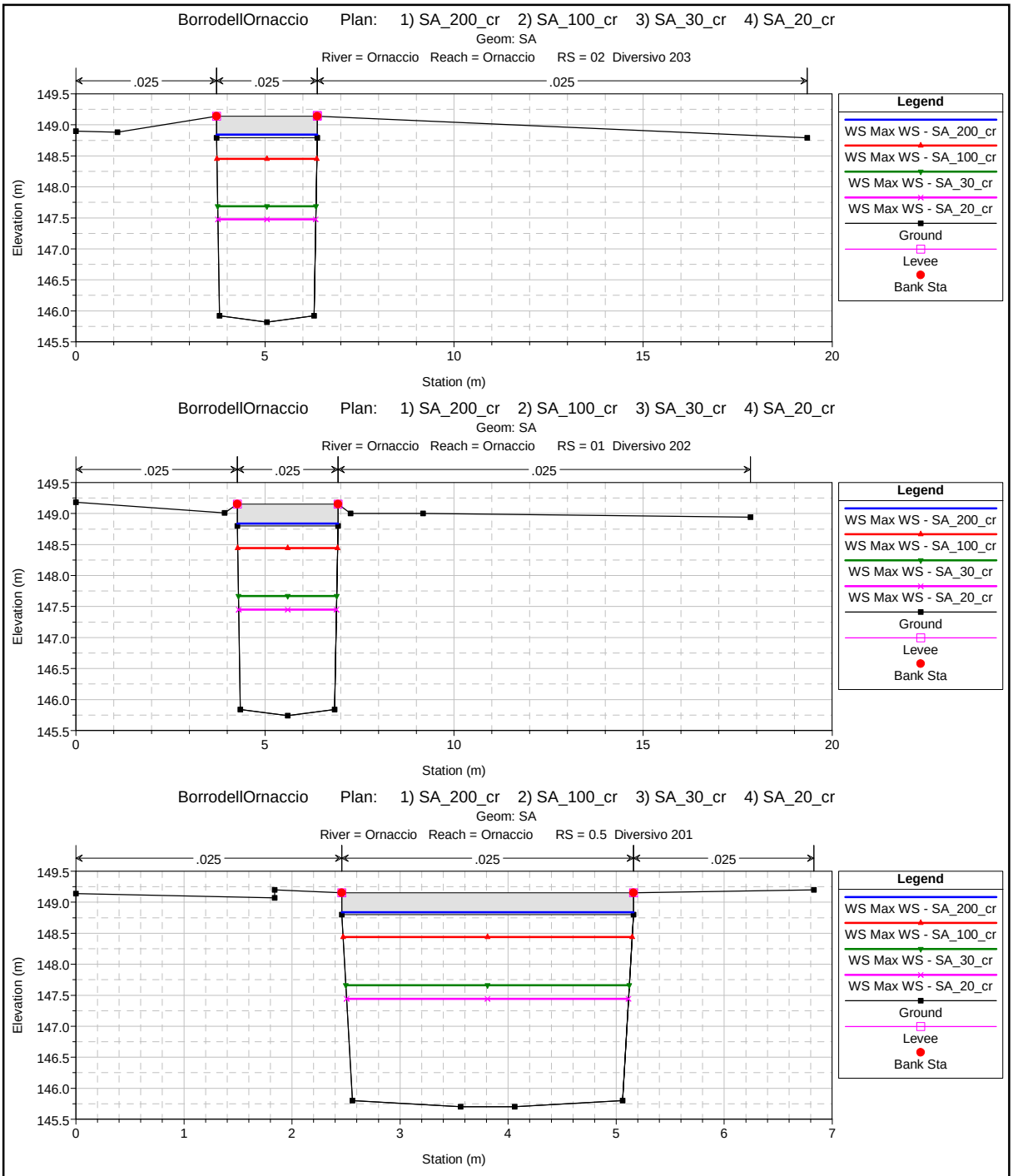

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 54 OR_PS_054
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 53 OR_PS_053
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 52 OR_PS_052
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 51.5 OR_PS_051.5
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

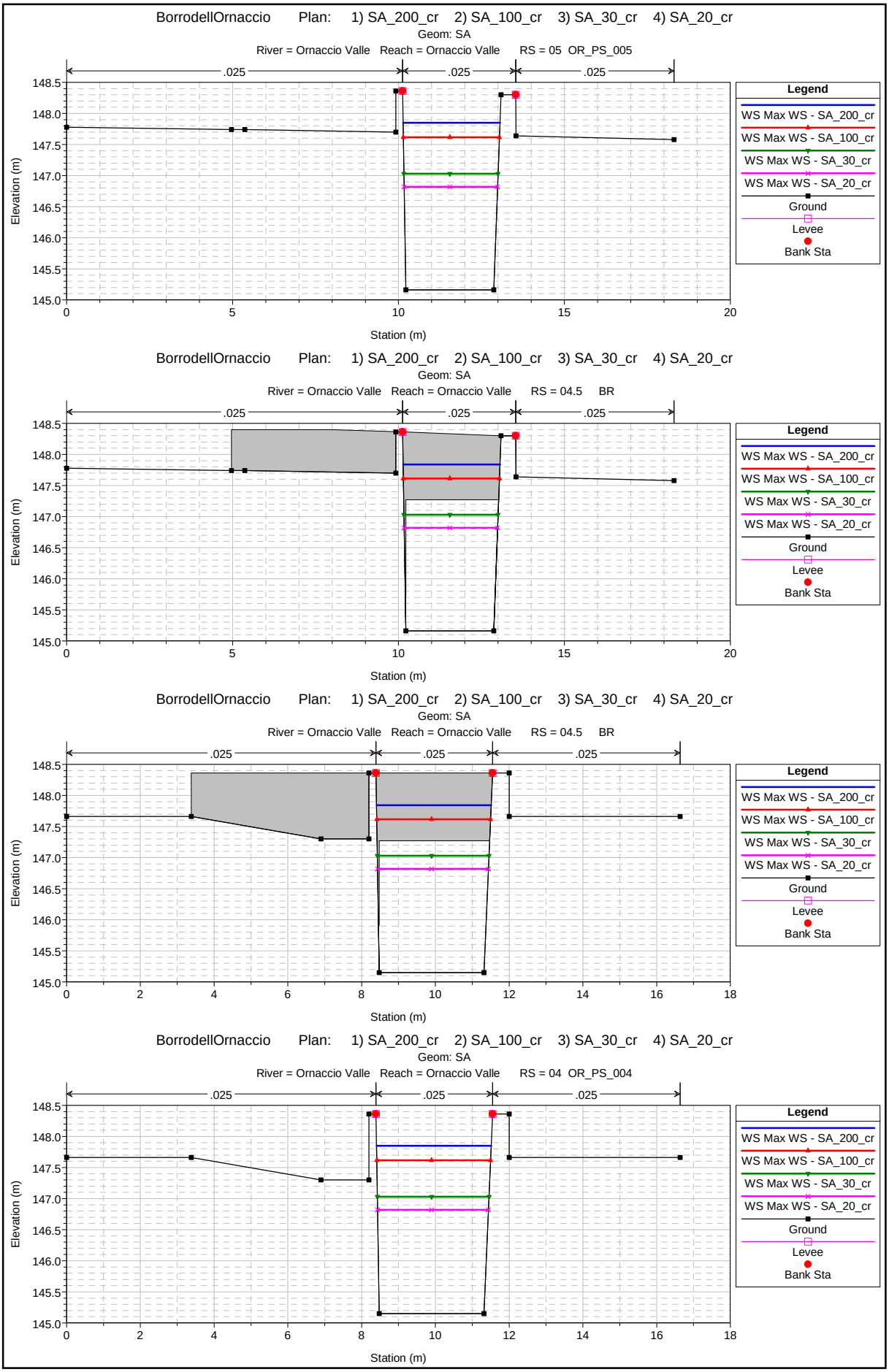

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 58 OR_PS_058
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 57 OR_PS_057
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 56 OR_PS_056
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 55 OR_PS_055
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

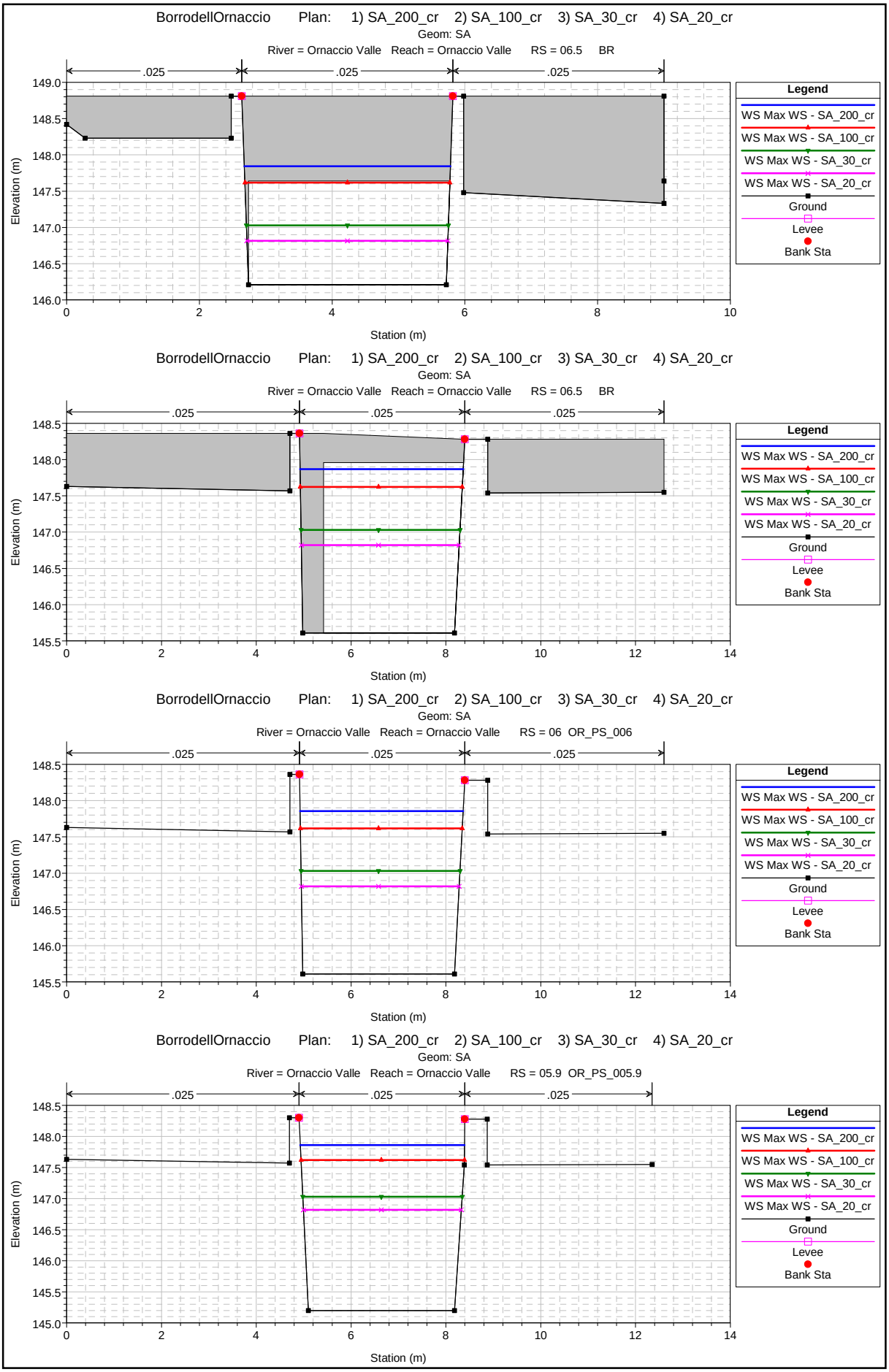

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 35.9 OR_PS_035.9
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 35 OR_PS_035
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 34 OR_PS_034
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 33 OR_PS_033
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

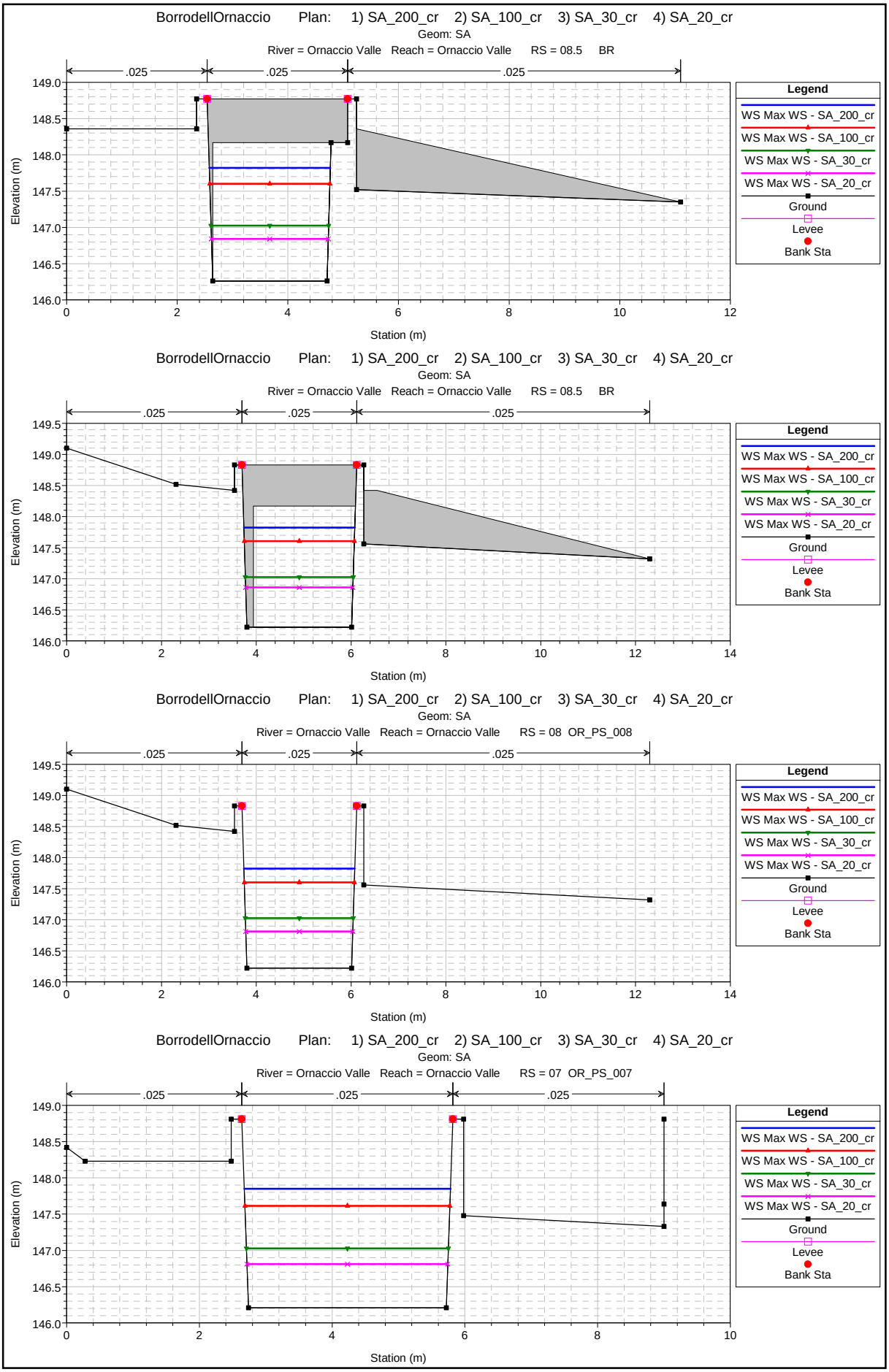

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 47.5 OR_PS_047.5
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 47 OR_PS_047
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 46.5 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 46.5 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

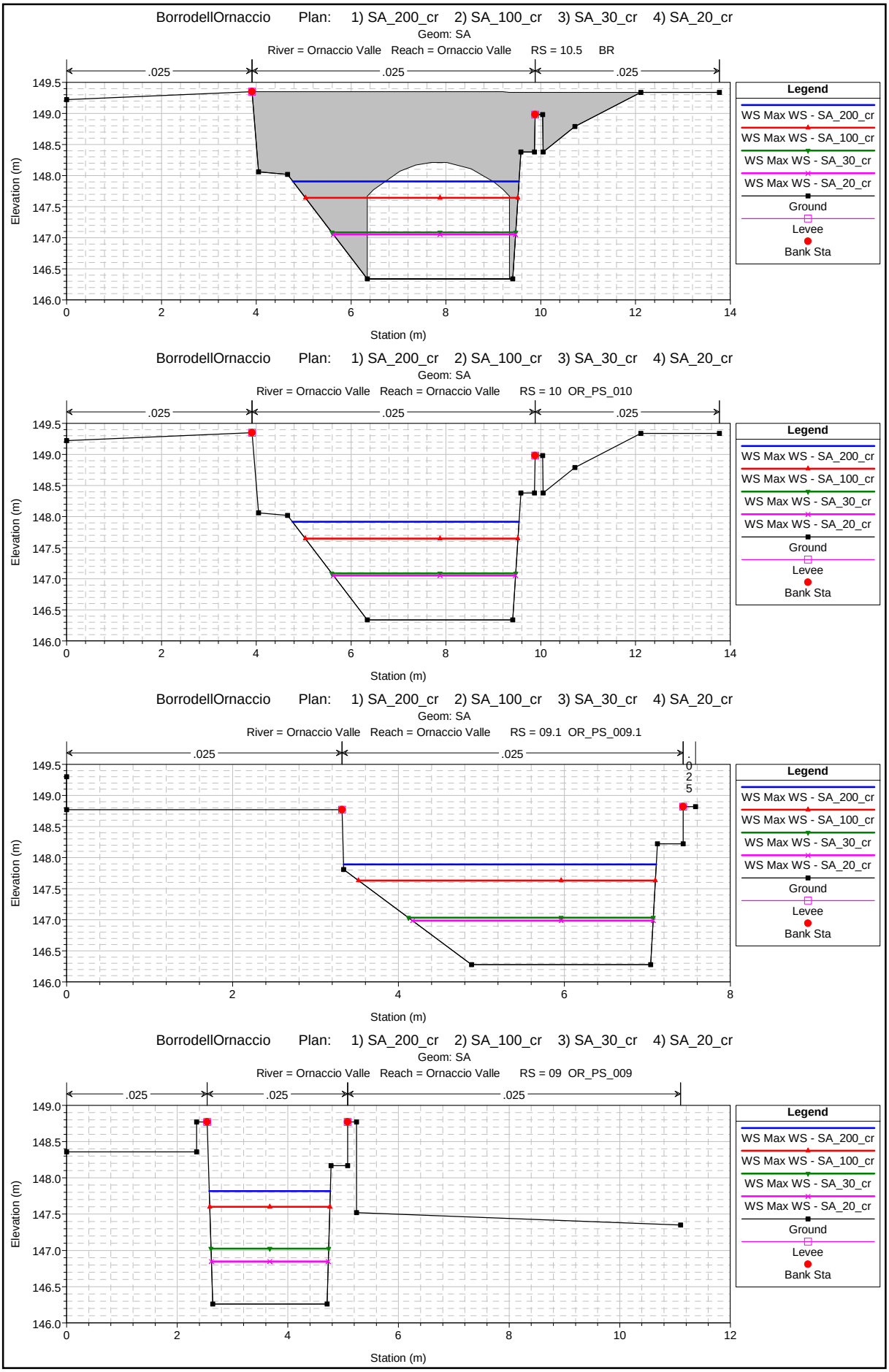

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 62 OR_PS_062
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 61 OR_PS_061
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 60 OR_PS_060
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 59 OR_PS_059
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

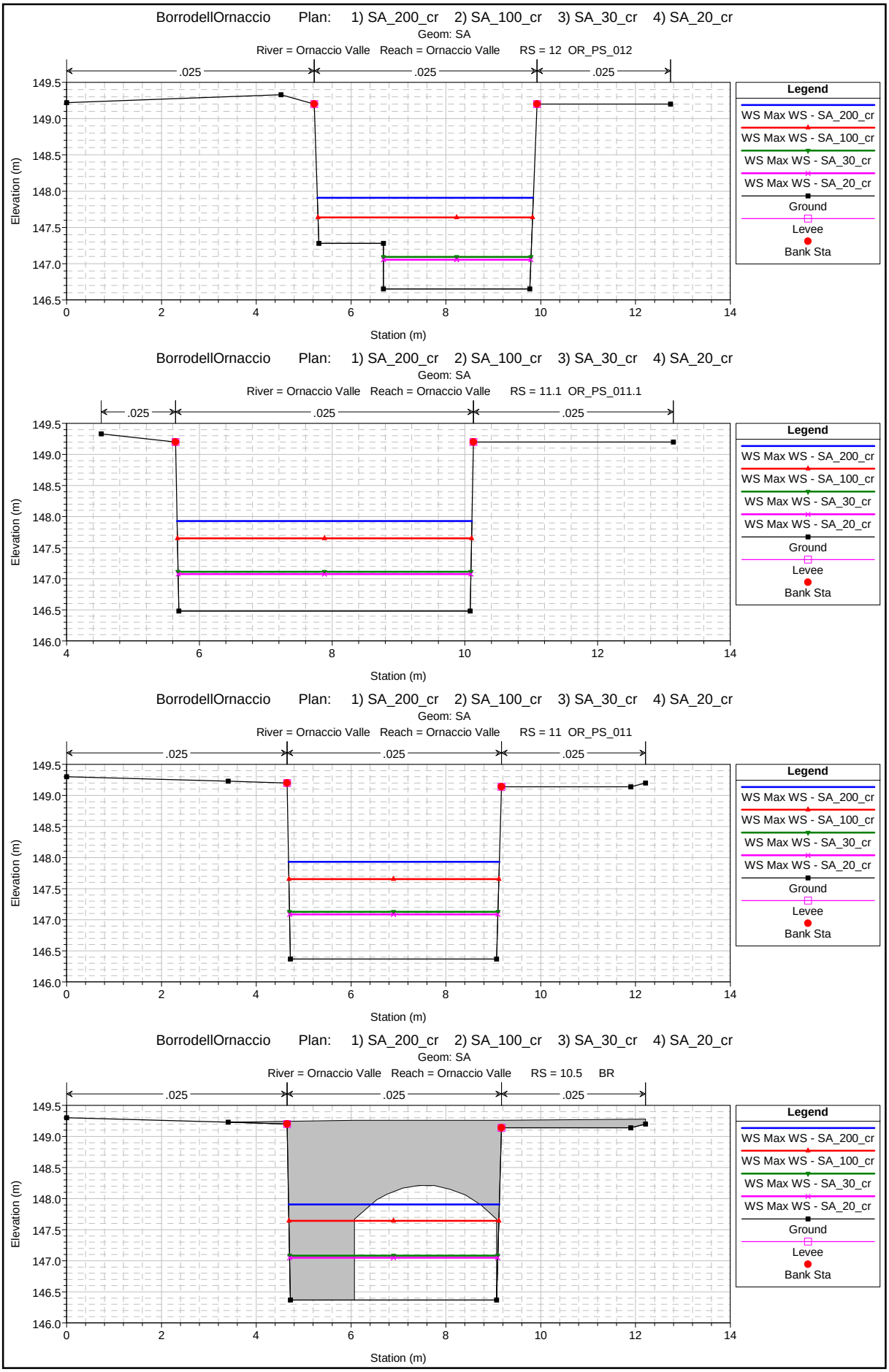

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 02 Diversivo 203
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 01 Diversivo 202
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Reach = Ornaccio RS = 0.5 Diversivo 201
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

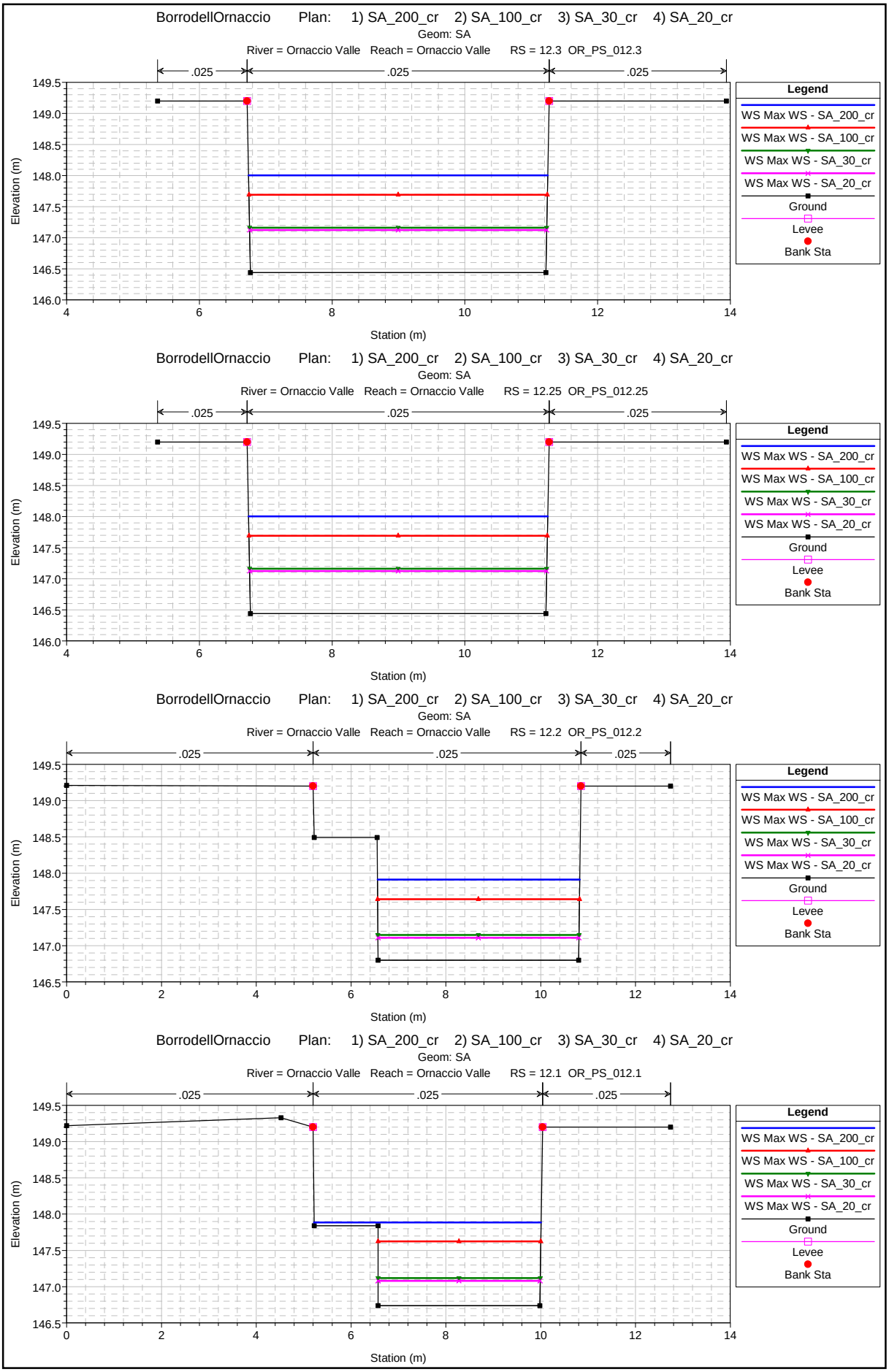

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 05 OR_PS_005
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 04.5 BR
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 04.5 BR
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 04 OR_PS_004
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

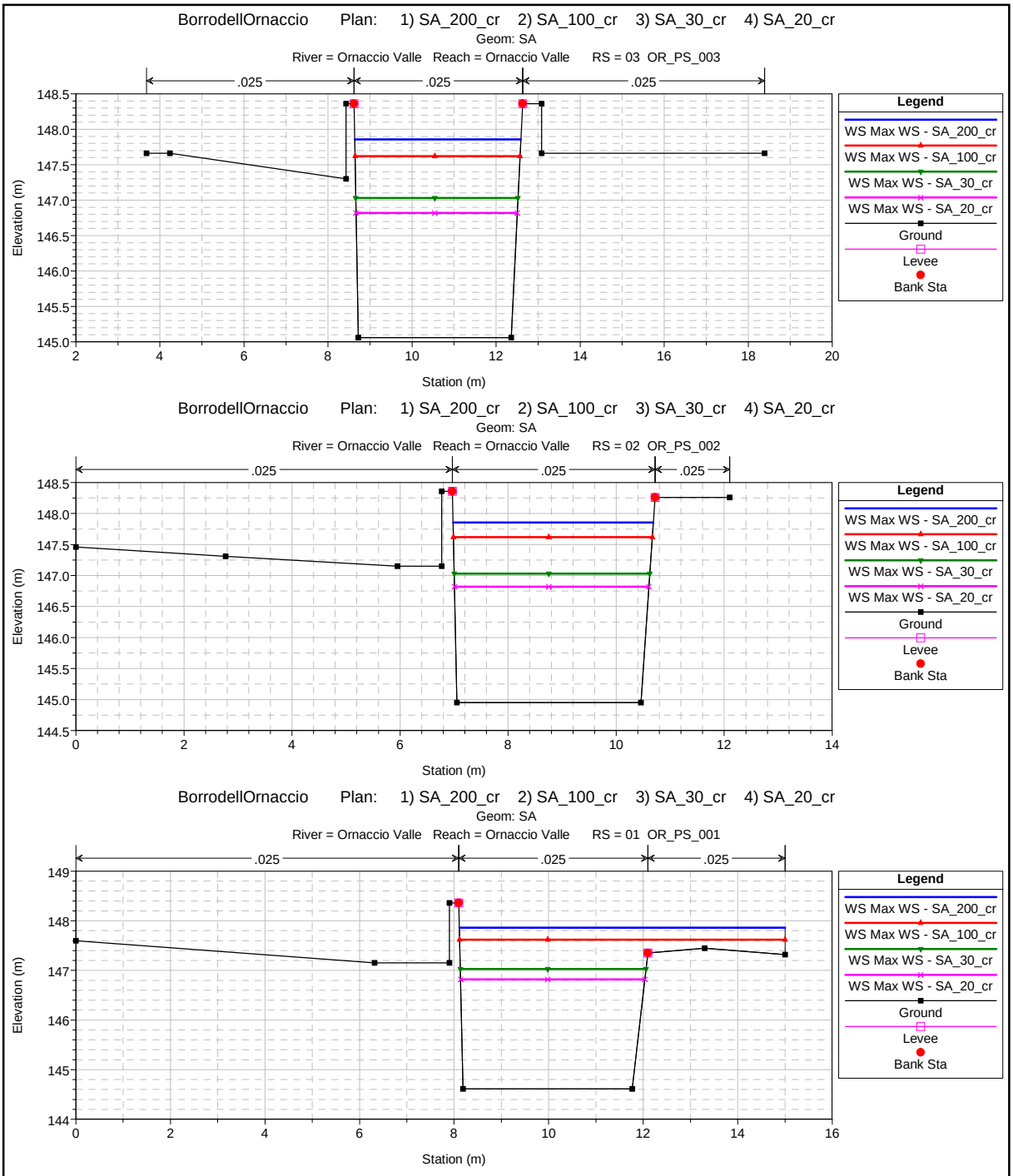

BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 06.5 BR
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 06.5 BR
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 06 OR_PS_006
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 05.9 OR_PS_005.9
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 08.5 BR
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 08.5 BR
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 08 OR_PS_008
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 07 OR_PS_007
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 10.5 BR
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 10 OR_PS_010
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 09.1 OR_PS_009.1
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 09 OR_PS_009
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 12 OR_PS_012
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 11.1 OR_PS_011.1
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 11 OR_PS_011
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 10.5 BR
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 12.3 OR_PS_012.3
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 12.25 OR_PS_012.25
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 12.2 OR_PS_012.2
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 12.1 OR_PS_012.1
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 03 OR_PS_003
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 02 OR_PS_002
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
BorrodellOrnaccio Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ornaccio Valle Reach = Ornaccio Valle RS = 01 OR_PS_001
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

HEC-RAS River: Ornaccio Valle Reach: Ornaccio Valle Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio Valle	12.3	Max WS	SA_200_cr	1.00	146.44	148.00		148.01	0.000014	0.14	7.01	4.51	0.04
Ornaccio Valle	12.3	Max WS	SA_100_cr	1.00	146.44	147.69		147.69	0.000027	0.18	5.60	4.50	0.05
Ornaccio Valle	12.3	Max WS	SA_30_cr	1.00	146.44	147.16		147.17	0.000135	0.31	3.22	4.48	0.12
Ornaccio Valle	12.3	Max WS	SA_20_cr	1.00	146.44	147.12		147.13	0.000159	0.33	3.05	4.47	0.13
Ornaccio Valle	12.25	Max WS	SA_200_cr	1.00	146.44	148.00		148.01	0.000014	0.14	7.01	4.51	0.04
Ornaccio Valle	12.25	Max WS	SA_100_cr	1.00	146.44	147.69		147.69	0.000027	0.18	5.60	4.50	0.05
Ornaccio Valle	12.25	Max WS	SA_30_cr	1.00	146.44	147.16		147.17	0.000135	0.31	3.22	4.48	0.12
Ornaccio Valle	12.25	Max WS	SA_20_cr	1.00	146.44	147.12		147.13	0.000159	0.33	3.05	4.47	0.13
Ornaccio Valle	12.2	Max WS	SA_200_cr	5.05	146.80	147.91		147.97	0.001084	1.07	4.72	4.27	0.32
Ornaccio Valle	12.2	Max WS	SA_100_cr	2.96	146.80	147.64		147.68	0.000845	0.83	3.57	4.26	0.29
Ornaccio Valle	12.2	Max WS	SA_30_cr	2.93	146.80	147.15	147.17	147.35	0.012410	1.99	1.47	4.24	1.08
Ornaccio Valle	12.2	Max WS	SA_20_cr	2.55	146.80	147.11	147.13	147.30	0.013519	1.95	1.31	4.24	1.12
Ornaccio Valle	12.1	Max WS	SA_200_cr	5.05	146.74	147.89		147.97	0.002157	1.27	3.98	4.79	0.44
Ornaccio Valle	12.1	Max WS	SA_100_cr	2.96	146.74	147.62		147.67	0.001224	0.98	3.03	3.43	0.33
Ornaccio Valle	12.1	Max WS	SA_30_cr	2.93	146.74	147.12	147.16	147.38	0.015149	2.26	1.30	3.42	1.17
Ornaccio Valle	12.1	Max WS	SA_20_cr	2.55	146.74	147.08	147.12	147.33	0.016116	2.20	1.16	3.42	1.20
Ornaccio Valle	12	Max WS	SA_200_cr	5.05	146.65	147.91		147.96	0.001144	1.05	4.79	4.56	0.33
Ornaccio Valle	12	Max WS	SA_100_cr	2.96	146.65	147.64		147.67	0.000947	0.83	3.56	4.53	0.30
Ornaccio Valle	12	Max WS	SA_30_cr	2.61	146.65	147.09		147.28	0.009339	1.90	1.37	3.12	0.91
Ornaccio Valle	12	Max WS	SA_20_cr	2.55	146.65	147.05	147.06	147.27	0.011892	2.04	1.25	3.11	1.03
Ornaccio Valle	11.1	Max WS	SA_200_cr	5.05	146.48	147.93		147.96	0.000463	0.79	6.40	4.44	0.21
Ornaccio Valle	11.1	Max WS	SA_100_cr	2.96	146.48	147.65		147.67	0.000291	0.57	5.17	4.43	0.17
Ornaccio Valle	11.1	Max WS	SA_30_cr	2.93	146.48	147.11		147.17	0.001762	1.05	2.79	4.41	0.42
Ornaccio Valle	11.1	Max WS	SA_20_cr	2.55	146.48	147.08		147.12	0.001626	0.97	2.62	4.41	0.40
Ornaccio Valle	11	Max WS	SA_200_cr	5.05	146.37	147.93	146.89	147.96	0.000378	0.74	6.87	4.44	0.19
Ornaccio Valle	11	Max WS	SA_100_cr	2.96	146.37	147.65	146.73	147.67	0.000227	0.53	5.64	4.43	0.15
Ornaccio Valle	11	Max WS	SA_30_cr	2.93	146.37	147.13	146.73	147.17	0.001050	0.88	3.31	4.40	0.33
Ornaccio Valle	11	Max WS	SA_20_cr	2.55	146.37	147.09	146.70	147.12	0.000941	0.82	3.13	4.39	0.31
Ornaccio Valle	10.5			Bridge									
Ornaccio Valle	10	Max WS	SA_200_cr	5.05	146.34	147.92		147.95	0.000479	0.82	6.20	4.78	0.23

HEC-RAS River: Ornaccio Valle Reach: Ornaccio Valle Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio Valle	10	Max WS	SA_100_cr	2.96	146.34	147.65		147.67	0.000306	0.60	4.94	4.49	0.18
Ornaccio Valle	10	Max WS	SA_30_cr	2.93	146.34	147.09		147.15	0.001847	1.13	2.59	3.88	0.44
Ornaccio Valle	10	Max WS	SA_20_cr	2.55	146.34	147.05		147.11	0.001638	1.04	2.46	3.84	0.41
Ornaccio Valle	09.1	Max WS	SA_200_cr	5.05	146.28	147.89		147.95	0.000912	1.04	4.84	3.77	0.29
Ornaccio Valle	09.1	Max WS	SA_100_cr	2.96	146.28	147.63		147.66	0.000569	0.76	3.88	3.58	0.23
Ornaccio Valle	09.1	Max WS	SA_30_cr	1.00	146.28	147.03		147.05	0.000438	0.52	1.93	2.95	0.20
Ornaccio Valle	09.1	Max WS	SA_20_cr	2.55	146.28	146.98		147.09	0.003618	1.44	1.78	2.90	0.58
Ornaccio Valle	09	Max WS	SA_200_cr	5.05	146.26	147.82	147.10	147.94	0.002630	1.52	3.32	2.19	0.39
Ornaccio Valle	09	Max WS	SA_100_cr	2.96	146.26	147.60	146.85	147.66	0.001342	1.04	2.84	2.17	0.29
Ornaccio Valle	09	Max WS	SA_30_cr	0.99	146.26	147.02	146.55	147.04	0.000705	0.62	1.60	2.13	0.23
Ornaccio Valle	09	Max WS	SA_20_cr	2.55	146.26	146.85	146.80	147.07	0.009778	2.07	1.23	2.12	0.87
Ornaccio Valle	08.5			Bridge									
Ornaccio Valle	08	Max WS	SA_200_cr	5.05	146.22	147.82		147.92	0.002030	1.38	3.65	2.34	0.35
Ornaccio Valle	08	Max WS	SA_100_cr	2.96	146.22	147.60		147.65	0.001033	0.94	3.13	2.32	0.26
Ornaccio Valle	08	Max WS	SA_30_cr	0.99	146.22	147.02		147.04	0.000515	0.55	1.81	2.27	0.20
Ornaccio Valle	08	Max WS	SA_20_cr	2.01	146.22	146.81		146.93	0.005077	1.52	1.32	2.26	0.63
Ornaccio Valle	07	Max WS	SA_200_cr	5.05	146.21	147.85	146.87	147.90	0.000867	1.01	4.99	3.11	0.25
Ornaccio Valle	07	Max WS	SA_100_cr	2.96	146.21	147.61	146.67	147.64	0.000454	0.69	4.26	3.09	0.19
Ornaccio Valle	07	Max WS	SA_30_cr	0.99	146.21	147.03	146.43	147.04	0.000236	0.40	2.46	3.04	0.14
Ornaccio Valle	07	Max WS	SA_20_cr	1.00	146.21	146.81	146.43	146.83	0.000577	0.55	1.81	3.03	0.23
Ornaccio Valle	06.5			Bridge									
Ornaccio Valle	06	Max WS	SA_200_cr	5.05	145.61	147.86		147.88	0.000299	0.68	7.46	3.44	0.15
Ornaccio Valle	06	Max WS	SA_100_cr	2.95	145.61	147.62		147.63	0.000138	0.44	6.64	3.42	0.10
Ornaccio Valle	06	Max WS	SA_30_cr	0.98	145.61	147.03		147.03	0.000039	0.21	4.65	3.35	0.06
Ornaccio Valle	06	Max WS	SA_20_cr	0.98	145.61	146.82		146.82	0.000062	0.25	3.95	3.33	0.07
Ornaccio Valle	05.9	Max WS	SA_200_cr	5.05	145.20	147.86		147.88	0.000199	0.58	8.73	3.47	0.12
Ornaccio Valle	05.9	Max WS	SA_100_cr	2.95	145.20	147.62		147.63	0.000087	0.37	7.91	3.45	0.08
Ornaccio Valle	05.9	Max WS	SA_30_cr	0.98	145.20	147.03		147.03	0.000021	0.17	5.89	3.36	0.04
Ornaccio Valle	05.9	Max WS	SA_20_cr	0.98	145.20	146.82		146.82	0.000029	0.19	5.19	3.33	0.05

HEC-RAS River: Ornaccio Valle Reach: Ornaccio Valle Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio Valle	05	Max WS	SA_200_cr	5.02	145.16	147.85	145.87	147.87	0.000308	0.67	7.50	2.92	0.13
Ornaccio Valle	05	Max WS	SA_100_cr	2.95	145.16	147.62	145.66	147.63	0.000135	0.43	6.81	2.90	0.09
Ornaccio Valle	05	Max WS	SA_30_cr	0.97	145.16	147.03	145.40	147.03	0.000030	0.19	5.13	2.84	0.05
Ornaccio Valle	05	Max WS	SA_20_cr	0.98	145.16	146.82	145.40	146.82	0.000042	0.22	4.53	2.82	0.05
Ornaccio Valle	04.5			Bridge									
Ornaccio Valle	04	Max WS	SA_200_cr	5.02	145.15	147.85		147.87	0.000253	0.62	8.03	3.11	0.12
Ornaccio Valle	04	Max WS	SA_100_cr	2.95	145.15	147.62		147.63	0.000111	0.40	7.31	3.09	0.08
Ornaccio Valle	04	Max WS	SA_30_cr	0.97	145.15	147.03		147.03	0.000025	0.18	5.51	3.03	0.04
Ornaccio Valle	04	Max WS	SA_20_cr	0.98	145.15	146.82		146.82	0.000034	0.20	4.88	3.01	0.05
Ornaccio Valle	03	Max WS	SA_200_cr	5.05	145.06	147.86		147.87	0.000117	0.48	10.62	3.95	0.09
Ornaccio Valle	03	Max WS	SA_100_cr	2.95	145.06	147.62		147.62	0.000051	0.30	9.68	3.93	0.06
Ornaccio Valle	03	Max WS	SA_30_cr	0.97	145.06	147.03		147.03	0.000011	0.13	7.39	3.86	0.03
Ornaccio Valle	03	Max WS	SA_20_cr	0.97	145.06	146.82		146.82	0.000015	0.15	6.58	3.84	0.04
Ornaccio Valle	02	Max WS	SA_200_cr	5.02	144.95	147.86		147.87	0.000126	0.49	10.34	3.71	0.09
Ornaccio Valle	02	Max WS	SA_100_cr	2.95	144.95	147.62		147.62	0.000055	0.31	9.46	3.68	0.06
Ornaccio Valle	02	Max WS	SA_30_cr	0.97	144.95	147.03		147.03	0.000012	0.13	7.31	3.62	0.03
Ornaccio Valle	02	Max WS	SA_20_cr	0.97	144.95	146.82		146.82	0.000016	0.15	6.55	3.60	0.04
Ornaccio Valle	01	Max WS	SA_200_cr	5.01	144.61	147.86	145.19	147.87	0.000066	0.39	13.74	6.89	0.07
Ornaccio Valle	01	Max WS	SA_100_cr	2.93	144.61	147.62	145.02	147.62	0.000030	0.25	12.09	6.88	0.05
Ornaccio Valle	01	Max WS	SA_30_cr	0.97	144.61	147.03	144.81	147.03	0.000006	0.11	9.09	3.93	0.02
Ornaccio Valle	01	Max WS	SA_20_cr	0.97	144.61	146.82	144.81	146.82	0.000008	0.12	8.26	3.90	0.03

HEC-RAS River: Ornaccio Reach: Ornaccio Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio	62	Max WS	SA_200_cr	22.67	153.02	154.77	154.93	155.37	0.011503	3.44	6.58	5.52	1.01
Ornaccio	62	Max WS	SA_100_cr	19.40	153.02	154.64	154.63	155.19	0.011381	3.30	5.89	5.26	0.99
Ornaccio	62	Max WS	SA_30_cr	14.89	153.02	154.43	154.42	154.92	0.011503	3.09	4.82	4.84	0.99
Ornaccio	62	Max WS	SA_20_cr	13.62	153.02	154.37	154.35	154.83	0.011499	3.02	4.51	4.71	0.98
Ornaccio	61	Max WS	SA_200_cr	22.66	152.92	154.67	154.88	155.30	0.012053	3.51	6.45	5.35	1.02
Ornaccio	61	Max WS	SA_100_cr	19.40	152.92	154.54	154.55	155.12	0.011915	3.36	5.77	5.10	1.01
Ornaccio	61	Max WS	SA_30_cr	14.89	152.92	154.33	154.33	154.84	0.011995	3.15	4.73	4.69	1.00
Ornaccio	61	Max WS	SA_20_cr	13.62	152.92	154.27	154.27	154.75	0.011988	3.08	4.43	4.57	1.00
Ornaccio	60	Max WS	SA_200_cr	22.65	152.71	154.49	154.60	155.16	0.012948	3.65	6.25	6.26	1.04
Ornaccio	60	Max WS	SA_100_cr	19.39	152.71	154.36	154.38	154.97	0.012867	3.48	5.57	4.76	1.03
Ornaccio	60	Max WS	SA_30_cr	14.89	152.71	154.15	154.16	154.68	0.012674	3.24	4.60	4.41	1.01
Ornaccio	60	Max WS	SA_20_cr	13.61	152.71	154.08	154.09	154.59	0.012564	3.15	4.32	4.30	1.00
Ornaccio	59	Max WS	SA_200_cr	22.65	152.71	154.45	154.60	155.17	0.014095	3.76	6.04	5.90	1.08
Ornaccio	59	Max WS	SA_100_cr	19.39	152.71	154.32	154.38	154.98	0.013925	3.59	5.41	4.71	1.07
Ornaccio	59	Max WS	SA_30_cr	14.89	152.71	154.11	154.15	154.68	0.013835	3.34	4.46	4.35	1.05
Ornaccio	59	Max WS	SA_20_cr	13.61	152.71	154.05	154.09	154.59	0.013764	3.26	4.18	4.24	1.05
Ornaccio	58	Max WS	SA_200_cr	22.64	152.59	154.32	154.54	154.97	0.012628	3.57	6.33	5.31	1.04
Ornaccio	58	Max WS	SA_100_cr	19.38	152.59	154.19	154.22	154.79	0.012428	3.41	5.68	5.07	1.03
Ornaccio	58	Max WS	SA_30_cr	14.89	152.59	153.98	154.00	154.50	0.012522	3.20	4.66	4.67	1.02
Ornaccio	58	Max WS	SA_20_cr	13.61	152.59	153.92	153.93	154.42	0.012497	3.12	4.36	4.55	1.02
Ornaccio	57	Max WS	SA_200_cr	22.64	152.51	154.24	154.29	154.88	0.012648	3.55	6.37	5.46	1.05
Ornaccio	57	Max WS	SA_100_cr	19.38	152.51	154.11	154.14	154.70	0.012384	3.40	5.70	5.16	1.03
Ornaccio	57	Max WS	SA_30_cr	14.89	152.51	153.90	153.92	154.42	0.012409	3.19	4.67	4.70	1.02
Ornaccio	57	Max WS	SA_20_cr	13.61	152.51	153.84	153.85	154.33	0.012389	3.11	4.38	4.58	1.01
Ornaccio	56	Max WS	SA_200_cr	22.62	152.22	153.94	153.97	154.57	0.012154	3.51	6.44	5.48	1.03
Ornaccio	56	Max WS	SA_100_cr	19.36	152.22	153.82	153.83	154.39	0.011866	3.34	5.79	5.23	1.01
Ornaccio	56	Max WS	SA_30_cr	14.89	152.22	153.61	153.62	154.11	0.012130	3.15	4.73	4.80	1.01
Ornaccio	56	Max WS	SA_20_cr	13.61	152.22	153.54	153.55	154.03	0.012176	3.08	4.42	4.67	1.01
Ornaccio	55	Max WS	SA_200_cr	22.59	151.97	153.72	153.73	154.32	0.011455	3.44	6.57	5.50	1.00
Ornaccio	55	Max WS	SA_100_cr	19.36	151.97	153.60	153.59	154.15	0.011234	3.28	5.90	5.25	0.99
Ornaccio	55	Max WS	SA_30_cr	14.88	151.97	153.38	153.37	153.87	0.011512	3.09	4.81	4.82	0.99

HEC-RAS River: Ornaccio Reach: Ornaccio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio	55	Max WS	SA_20_cr	13.60	151.97	153.32	153.31	153.78	0.011570	3.03	4.50	4.69	0.99
Ornaccio	54	Max WS	SA_200_cr	22.57	151.74	153.50	153.50	154.09	0.011314	3.42	6.60	5.51	1.00
Ornaccio	54	Max WS	SA_100_cr	19.36	151.74	153.37	153.36	153.92	0.011149	3.27	5.92	5.26	0.98
Ornaccio	54	Max WS	SA_30_cr	14.88	151.74	153.15	153.14	153.64	0.011644	3.10	4.79	4.81	0.99
Ornaccio	54	Max WS	SA_20_cr	13.60	151.74	153.08	153.07	153.55	0.011821	3.05	4.46	4.67	1.00
Ornaccio	53	Max WS	SA_200_cr	22.56	151.55	153.33	153.30	153.90	0.010651	3.34	6.75	5.58	0.97
Ornaccio	53	Max WS	SA_100_cr	19.36	151.55	153.21	153.17	153.73	0.010264	3.17	6.11	5.34	0.95
Ornaccio	53	Max WS	SA_30_cr	14.88	151.55	152.98	152.95	153.45	0.010934	3.03	4.91	4.87	0.96
Ornaccio	53	Max WS	SA_20_cr	13.60	151.55	152.90	152.88	153.36	0.011204	2.99	4.55	4.72	0.97
Ornaccio	52.99			Lat Struct									
Ornaccio	52	Max WS	SA_200_cr	22.36	151.26	153.14		153.61	0.008344	3.07	7.30	5.72	0.87
Ornaccio	52	Max WS	SA_100_cr	19.35	151.26	153.04		153.46	0.007800	2.86	6.76	5.59	0.83
Ornaccio	52	Max WS	SA_30_cr	14.87	151.26	152.77		153.17	0.008889	2.81	5.30	5.04	0.87
Ornaccio	52	Max WS	SA_20_cr	13.60	151.26	152.68		153.08	0.009399	2.80	4.86	4.86	0.89
Ornaccio	51.99			Lat Struct									
Ornaccio	51.5	Max WS	SA_200_cr	21.47	151.06	153.23		153.51	0.004212	2.36	9.12	6.00	0.61
Ornaccio	51.5	Max WS	SA_100_cr	19.21	151.06	153.10		153.37	0.004349	2.30	8.33	6.00	0.62
Ornaccio	51.5	Max WS	SA_30_cr	14.87	151.06	152.79		153.05	0.005101	2.28	6.52	5.54	0.67
Ornaccio	51.5	Max WS	SA_20_cr	13.60	151.06	152.68		152.95	0.005450	2.29	5.95	5.32	0.69
Ornaccio	51	Max WS	SA_200_cr	21.16	150.99	152.87	152.71	153.58	0.008632	3.75	5.65	3.01	0.87
Ornaccio	51	Max WS	SA_100_cr	19.17	150.99	152.75	152.59	153.42	0.008417	3.63	5.29	3.01	0.87
Ornaccio	51	Max WS	SA_30_cr	14.87	150.99	152.50	152.34	153.05	0.007573	3.28	4.54	3.01	0.85
Ornaccio	51	Max WS	SA_20_cr	13.60	150.99	152.42	152.27	152.93	0.007335	3.16	4.30	3.01	0.85
Ornaccio	50.5			Bridge									
Ornaccio	50	Max WS	SA_200_cr	21.15	150.94	152.81		153.53	0.008664	3.75	5.64	3.01	0.87
Ornaccio	50	Max WS	SA_100_cr	19.17	150.94	152.70		153.37	0.008359	3.62	5.30	3.01	0.87
Ornaccio	50	Max WS	SA_30_cr	14.87	150.94	152.46		153.00	0.007364	3.24	4.59	3.01	0.84
Ornaccio	50	Max WS	SA_20_cr	13.60	150.94	152.39		152.88	0.007069	3.12	4.36	3.01	0.83

HEC-RAS River: Ornaccio Reach: Ornaccio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio	49.5	Max WS	SA_200_cr	21.15	150.88	152.67		153.46	0.018069	3.92	5.40	3.01	0.93
Ornaccio	49.5	Max WS	SA_100_cr	19.17	150.88	152.56		153.29	0.017510	3.78	5.07	3.01	0.93
Ornaccio	49.5	Max WS	SA_30_cr	14.87	150.88	152.34		152.92	0.015415	3.39	4.39	3.01	0.90
Ornaccio	49.5	Max WS	SA_20_cr	13.59	150.88	152.27		152.81	0.014754	3.26	4.17	3.01	0.88
Ornaccio	49.1	Max WS	SA_200_cr	20.74	150.72	152.54		153.27	0.016895	3.80	5.45	3.01	0.90
Ornaccio	49.1	Max WS	SA_100_cr	19.17	150.72	152.43		153.14	0.016850	3.73	5.14	3.01	0.91
Ornaccio	49.1	Max WS	SA_30_cr	14.87	150.72	152.26		152.79	0.013560	3.23	4.60	3.01	0.83
Ornaccio	49.1	Max WS	SA_20_cr	13.59	150.72	152.20		152.68	0.012522	3.07	4.43	3.01	0.81
Ornaccio	49	Max WS	SA_200_cr	21.18	150.66	152.53		153.08	0.010248	3.28	6.46	4.94	0.91
Ornaccio	49	Max WS	SA_100_cr	19.17	150.66	152.41		152.95	0.010677	3.24	5.91	4.73	0.93
Ornaccio	49	Max WS	SA_30_cr	14.87	150.66	152.20		152.66	0.010357	3.01	4.95	4.40	0.90
Ornaccio	49	Max WS	SA_20_cr	13.59	150.66	152.14		152.57	0.010216	2.92	4.65	4.30	0.90
Ornaccio	48.99			Lat Struct									
Ornaccio	48	Max WS	SA_200_cr	20.83	150.51	152.39		152.81	0.007246	2.84	7.33	5.70	0.80
Ornaccio	48	Max WS	SA_100_cr	19.16	150.51	152.22		152.68	0.008969	3.01	6.37	5.44	0.89
Ornaccio	48	Max WS	SA_30_cr	14.87	150.51	152.00		152.42	0.009254	2.85	5.22	5.00	0.89
Ornaccio	48	Max WS	SA_20_cr	13.59	150.51	151.93		152.33	0.009395	2.80	4.85	4.85	0.89
Ornaccio	47.5	Max WS	SA_200_cr	21.42	150.40	152.42		152.73	0.004731	2.45	8.77	6.83	0.67
Ornaccio	47.5	Max WS	SA_100_cr	19.11	150.40	152.26		152.57	0.005477	2.47	7.73	6.31	0.71
Ornaccio	47.5	Max WS	SA_30_cr	14.87	150.40	152.02		152.31	0.005760	2.36	6.29	5.76	0.72
Ornaccio	47.5	Max WS	SA_20_cr	13.59	150.40	151.94		152.22	0.005880	2.33	5.84	5.57	0.73
Ornaccio	47	Max WS	SA_200_cr	21.55	150.34	152.18	152.10	152.99	0.010057	3.99	5.41	2.94	0.94
Ornaccio	47	Max WS	SA_100_cr	18.95	150.34	152.03	151.96	152.77	0.009682	3.81	4.97	2.94	0.94
Ornaccio	47	Max WS	SA_30_cr	14.87	150.34	151.79	151.72	152.41	0.009059	3.50	4.24	2.94	0.93
Ornaccio	47	Max WS	SA_20_cr	13.59	150.34	151.71	151.64	152.29	0.008735	3.38	4.02	2.94	0.92
Ornaccio	46.5			Bridge									
Ornaccio	46	Max WS	SA_200_cr	21.54	150.31	152.12	152.08	152.97	0.010699	4.08	5.28	2.92	0.97
Ornaccio	46	Max WS	SA_100_cr	18.94	150.31	151.99	151.94	152.75	0.010109	3.87	4.89	2.92	0.96
Ornaccio	46	Max WS	SA_30_cr	14.87	150.31	151.74	151.70	152.39	0.009485	3.56	4.17	2.92	0.95
Ornaccio	46	Max WS	SA_20_cr	13.59	150.31	151.67	151.62	152.27	0.009144	3.44	3.95	2.92	0.94

HEC-RAS River: Ornaccio Reach: Ornaccio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio	45.5	Max WS	SA_200_cr	21.59	150.25	152.05		152.56	0.009496	3.17	6.82	5.59	0.92
Ornaccio	45.5	Max WS	SA_100_cr	19.17	150.25	151.96		152.42	0.009151	3.03	6.33	5.41	0.89
Ornaccio	45.5	Max WS	SA_30_cr	14.87	150.25	151.74		152.16	0.009367	2.86	5.19	4.98	0.89
Ornaccio	45.5	Max WS	SA_20_cr	13.59	150.25	151.66		152.07	0.009545	2.82	4.82	4.83	0.90
Ornaccio	45.49			Lat Struct									
Ornaccio	45	Max WS	SA_200_cr	21.57	150.12	152.00		152.45	0.007963	2.97	7.26	5.66	0.84
Ornaccio	45	Max WS	SA_100_cr	19.17	150.12	151.92		152.32	0.007463	2.81	6.82	5.58	0.81
Ornaccio	45	Max WS	SA_30_cr	14.86	150.12	151.70		152.05	0.007497	2.64	5.64	5.14	0.80
Ornaccio	45	Max WS	SA_20_cr	13.59	150.12	151.62		151.96	0.007657	2.60	5.23	4.98	0.81
Ornaccio	44	Max WS	SA_200_cr	21.19	149.91	151.75	151.74	152.31	0.011066	3.32	6.38	5.50	0.98
Ornaccio	44	Max WS	SA_100_cr	19.17	149.91	151.67	151.65	152.20	0.011027	3.23	5.94	5.36	0.98
Ornaccio	44	Max WS	SA_30_cr	14.86	149.91	151.45	151.44	151.94	0.011525	3.08	4.83	4.87	0.99
Ornaccio	44	Max WS	SA_20_cr	13.59	149.91	151.38	151.37	151.85	0.011869	3.04	4.46	4.70	1.00
Ornaccio	43	Max WS	SA_200_cr	20.95	149.72	151.57		152.01	0.007830	2.93	7.16	5.69	0.83
Ornaccio	43	Max WS	SA_100_cr	19.16	149.72	151.49		151.91	0.007786	2.85	6.72	5.59	0.83
Ornaccio	43	Max WS	SA_30_cr	14.86	149.72	151.25		151.63	0.008251	2.73	5.45	5.10	0.84
Ornaccio	43	Max WS	SA_20_cr	13.59	149.72	151.16		151.54	0.008805	2.73	4.98	4.91	0.87
Ornaccio	42.5	Max WS	SA_200_cr	20.71	149.59	151.60		151.93	0.005210	2.52	8.22	6.12	0.69
Ornaccio	42.5	Max WS	SA_100_cr	19.16	149.59	151.50		151.82	0.005647	2.53	7.59	5.95	0.71
Ornaccio	42.5	Max WS	SA_30_cr	14.86	149.59	151.25		151.55	0.005919	2.41	6.17	5.43	0.72
Ornaccio	42.5	Max WS	SA_20_cr	13.58	149.59	151.14		151.44	0.006412	2.42	5.60	5.21	0.75
Ornaccio	42	Max WS	SA_200_cr	20.67	149.52	151.30	151.21	152.06	0.009477	3.86	5.35	3.00	0.92
Ornaccio	42	Max WS	SA_100_cr	19.16	149.52	151.21	151.13	151.94	0.009324	3.77	5.08	3.00	0.92
Ornaccio	42	Max WS	SA_30_cr	14.86	149.52	150.99	150.88	151.57	0.008213	3.38	4.40	3.00	0.89
Ornaccio	42	Max WS	SA_20_cr	13.58	149.52	150.90	150.80	151.45	0.008043	3.27	4.15	3.00	0.89
Ornaccio	41.5			Bridge									
Ornaccio	41	Max WS	SA_200_cr	20.67	149.44	151.19	151.13	151.98	0.010018	3.94	5.24	3.00	0.95
Ornaccio	41	Max WS	SA_100_cr	19.16	149.44	151.12		151.86	0.009554	3.80	5.04	3.00	0.94
Ornaccio	41	Max WS	SA_30_cr	14.86	149.44	150.91		151.49	0.008224	3.38	4.40	3.00	0.89

HEC-RAS River: Ornaccio Reach: Ornaccio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio	41	Max WS	SA_20_cr	13.58	149.44	150.83		151.37	0.008012	3.27	4.15	3.00	0.89
Ornaccio	40.5	Max WS	SA_200_cr	20.67	149.38	151.20		151.67	0.008549	3.02	6.85	5.52	0.87
Ornaccio	40.5	Max WS	SA_100_cr	19.16	149.38	151.17		151.59	0.007906	2.88	6.66	5.45	0.83
Ornaccio	40.5	Max WS	SA_30_cr	14.85	149.38	150.97		151.33	0.007507	2.64	5.62	5.07	0.80
Ornaccio	40.5	Max WS	SA_20_cr	13.58	149.38	150.85		151.22	0.008405	2.69	5.04	4.85	0.84
Ornaccio	40.49			Lat Struct									
Ornaccio	40.48			Lat Struct									
Ornaccio	40	Max WS	SA_200_cr	20.67	149.24	151.21		151.57	0.006058	2.65	7.79	5.87	0.74
Ornaccio	40	Max WS	SA_100_cr	19.15	149.24	151.18		151.50	0.005474	2.50	7.65	5.84	0.70
Ornaccio	40	Max WS	SA_30_cr	14.85	149.24	150.98		151.25	0.005067	2.28	6.52	5.48	0.67
Ornaccio	40	Max WS	SA_20_cr	13.57	149.24	150.86		151.13	0.005688	2.32	5.84	5.22	0.70
Ornaccio	39	Max WS	SA_200_cr	20.10	148.99	151.20		151.44	0.003581	2.18	9.24	6.10	0.56
Ornaccio	39	Max WS	SA_100_cr	18.78	148.99	151.17		151.39	0.003319	2.08	9.04	6.10	0.54
Ornaccio	39	Max WS	SA_30_cr	14.85	148.99	150.95		151.13	0.003233	1.93	7.70	5.88	0.54
Ornaccio	39	Max WS	SA_20_cr	13.57	148.99	150.81		151.00	0.003607	1.96	6.91	5.60	0.56
Ornaccio	38	Max WS	SA_200_cr	18.99	148.81	150.87		151.39	0.007865	3.19	5.95	3.08	0.73
Ornaccio	38	Max WS	SA_100_cr	18.02	148.81	150.85		151.33	0.007296	3.06	5.88	3.08	0.71
Ornaccio	38	Max WS	SA_30_cr	14.85	148.81	150.64		151.05	0.006702	2.83	5.24	3.08	0.69
Ornaccio	38	Max WS	SA_20_cr	13.57	148.81	150.52		150.91	0.006859	2.80	4.85	3.07	0.71
Ornaccio	37	Max WS	SA_200_cr	18.80	148.71	150.75		151.31	0.008892	3.31	5.67	2.92	0.76
Ornaccio	37	Max WS	SA_100_cr	17.92	148.71	150.73		151.25	0.008349	3.20	5.60	2.92	0.74
Ornaccio	37	Max WS	SA_30_cr	14.84	148.71	150.53		150.97	0.007612	2.96	5.02	2.91	0.72
Ornaccio	37	Max WS	SA_20_cr	13.57	148.71	150.40		150.83	0.007756	2.91	4.66	2.91	0.73
Ornaccio	36	Max WS	SA_200_cr	18.68	148.68	150.71		151.29	0.009511	3.38	5.53	2.83	0.77
Ornaccio	36	Max WS	SA_100_cr	17.85	148.68	150.68		151.23	0.008997	3.27	5.46	2.83	0.75
Ornaccio	36	Max WS	SA_30_cr	14.84	148.68	150.48		150.95	0.008335	3.04	4.88	2.83	0.74
Ornaccio	36	Max WS	SA_20_cr	13.57	148.68	150.35		150.81	0.008476	3.00	4.53	2.83	0.76
Ornaccio	35.9	Max WS	SA_200_cr	18.58	148.68	150.58		151.25	0.011134	3.61	5.15	2.71	0.84
Ornaccio	35.9	Max WS	SA_100_cr	17.78	148.68	150.56		151.18	0.010567	3.50	5.08	2.71	0.82

HEC-RAS River: Ornaccio Reach: Ornaccio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio	35.9	Max WS	SA_30_cr	14.84	148.68	150.36		150.90	0.009844	3.27	4.53	2.71	0.81
Ornaccio	35.9	Max WS	SA_20_cr	13.57	148.68	150.24		150.77	0.009999	3.22	4.21	2.71	0.83
Ornaccio	35	Max WS	SA_200_cr	18.58	148.57	150.64		151.17	0.008363	3.23	5.76	2.92	0.73
Ornaccio	35	Max WS	SA_100_cr	17.78	148.57	150.61		151.11	0.007916	3.13	5.69	2.92	0.72
Ornaccio	35	Max WS	SA_30_cr	14.84	148.57	150.40		150.84	0.007406	2.92	5.08	2.92	0.71
Ornaccio	35	Max WS	SA_20_cr	13.57	148.57	150.27		150.70	0.007586	2.89	4.70	2.92	0.73
Ornaccio	34	Max WS	SA_200_cr	18.57	148.57	150.62		151.16	0.008533	3.25	5.71	2.92	0.74
Ornaccio	34	Max WS	SA_100_cr	17.78	148.57	150.60		151.10	0.008084	3.15	5.64	2.92	0.72
Ornaccio	34	Max WS	SA_30_cr	14.84	148.57	150.39		150.83	0.007568	2.95	5.04	2.92	0.72
Ornaccio	34	Max WS	SA_20_cr	13.57	148.57	150.26		150.69	0.007783	2.92	4.65	2.92	0.74
Ornaccio	33	Max WS	SA_200_cr	18.52	148.42	150.44		151.02	0.009489	3.39	5.47	2.71	0.76
Ornaccio	33	Max WS	SA_100_cr	17.78	148.42	150.42		150.97	0.008889	3.27	5.43	2.71	0.74
Ornaccio	33	Max WS	SA_30_cr	14.84	148.42	150.26		150.71	0.007711	2.98	4.98	2.71	0.70
Ornaccio	33	Max WS	SA_20_cr	13.57	148.42	150.13		150.57	0.007731	2.92	4.64	2.71	0.71
Ornaccio	32	Max WS	SA_200_cr	18.34	148.25	150.31		150.86	0.008831	3.29	5.58	2.71	0.73
Ornaccio	32	Max WS	SA_100_cr	17.66	148.25	150.31		150.82	0.008262	3.18	5.56	2.71	0.71
Ornaccio	32	Max WS	SA_30_cr	14.84	148.25	150.15		150.58	0.007125	2.89	5.14	2.71	0.67
Ornaccio	32	Max WS	SA_20_cr	13.56	148.25	150.03		150.43	0.007078	2.82	4.80	2.71	0.68
Ornaccio	31	Max WS	SA_200_cr	18.04	148.16	150.23		150.79	0.009172	3.34	5.41	2.72	0.76
Ornaccio	31	Max WS	SA_100_cr	17.45	148.16	150.21		150.75	0.008743	3.25	5.37	2.72	0.74
Ornaccio	31	Max WS	SA_30_cr	14.84	148.16	150.03		150.50	0.008069	3.04	4.88	2.71	0.72
Ornaccio	31	Max WS	SA_20_cr	13.56	148.16	149.90		150.36	0.008110	2.99	4.54	2.69	0.73
Ornaccio	30	Max WS	SA_200_cr	17.99	148.12	150.13		150.75	0.010502	3.50	5.14	2.62	0.80
Ornaccio	30	Max WS	SA_100_cr	17.42	148.12	150.12		150.71	0.010015	3.41	5.11	2.62	0.78
Ornaccio	30	Max WS	SA_30_cr	14.84	148.12	149.95		150.46	0.009144	3.18	4.67	2.61	0.76
Ornaccio	30	Max WS	SA_20_cr	13.56	148.12	149.82		150.32	0.009164	3.12	4.35	2.60	0.77
Ornaccio	29	Max WS	SA_200_cr	17.94	147.99	150.03		150.61	0.009404	3.37	5.33	2.72	0.77
Ornaccio	29	Max WS	SA_100_cr	17.39	147.99	150.02		150.57	0.008919	3.28	5.31	2.72	0.75
Ornaccio	29	Max WS	SA_30_cr	14.84	147.99	149.86		150.33	0.008076	3.04	4.87	2.71	0.72
Ornaccio	29	Max WS	SA_20_cr	13.56	147.99	149.74		150.19	0.008137	2.99	4.53	2.69	0.74

HEC-RAS River: Ornaccio Reach: Ornaccio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio	28	Max WS	SA_200_cr	17.70	147.87	149.91		150.50	0.009745	3.39	5.23	2.62	0.77
Ornaccio	28	Max WS	SA_100_cr	17.21	147.87	149.91		150.46	0.009279	3.30	5.21	2.62	0.75
Ornaccio	28	Max WS	SA_30_cr	14.84	147.87	149.73		150.22	0.008756	3.13	4.75	2.61	0.74
Ornaccio	28	Max WS	SA_20_cr	13.56	147.87	149.60		150.08	0.008767	3.07	4.42	2.60	0.75
Ornaccio	27	Max WS	SA_200_cr	17.65	147.85	149.90		150.48	0.009611	3.36	5.25	2.62	0.76
Ornaccio	27	Max WS	SA_100_cr	17.18	147.85	149.89		150.44	0.009176	3.29	5.23	2.62	0.74
Ornaccio	27	Max WS	SA_30_cr	14.84	147.85	149.71		150.21	0.008717	3.12	4.75	2.61	0.74
Ornaccio	27	Max WS	SA_20_cr	13.56	147.85	149.59		150.06	0.008721	3.06	4.43	2.60	0.75
Ornaccio	26	Max WS	SA_200_cr	17.48	147.74	149.80		150.38	0.009793	3.37	5.19	2.54	0.75
Ornaccio	26	Max WS	SA_100_cr	17.04	147.74	149.79		150.34	0.009406	3.30	5.17	2.54	0.74
Ornaccio	26	Max WS	SA_30_cr	14.84	147.74	149.58		150.10	0.009343	3.19	4.65	2.54	0.75
Ornaccio	26	Max WS	SA_20_cr	13.56	147.74	149.46		149.96	0.009283	3.12	4.34	2.53	0.76
Ornaccio	25	Max WS	SA_200_cr	16.98	147.69	149.74		150.29	0.009334	3.28	5.17	2.54	0.73
Ornaccio	25	Max WS	SA_100_cr	17.01	147.69	149.73		150.29	0.009483	3.30	5.15	2.54	0.74
Ornaccio	25	Max WS	SA_30_cr	14.84	147.69	149.52		150.05	0.009586	3.23	4.60	2.54	0.76
Ornaccio	25	Max WS	SA_20_cr	13.56	147.69	149.40		149.90	0.009538	3.16	4.30	2.53	0.77
Ornaccio	24	Max WS	SA_200_cr	17.21	147.54	149.60		150.17	0.009657	3.33	5.17	2.51	0.74
Ornaccio	24	Max WS	SA_100_cr	16.89	147.54	149.58		150.14	0.009526	3.30	5.12	2.51	0.74
Ornaccio	24	Max WS	SA_30_cr	14.84	147.54	149.33		149.89	0.010251	3.31	4.49	2.51	0.79
Ornaccio	24	Max WS	SA_20_cr	13.56	147.54	149.21		149.75	0.010183	3.23	4.19	2.51	0.80
Ornaccio	23	Max WS	SA_200_cr	16.53	147.40	149.58		150.03	0.007492	2.99	5.52	2.56	0.65
Ornaccio	23	Max WS	SA_100_cr	16.80	147.40	149.48		149.99	0.008712	3.19	5.26	2.56	0.71
Ornaccio	23	Max WS	SA_30_cr	14.83	147.40	149.17		149.73	0.010228	3.31	4.48	2.55	0.80
Ornaccio	23	Max WS	SA_20_cr	13.56	147.40	149.05		149.59	0.010229	3.25	4.18	2.55	0.81
Ornaccio	22	Max WS	SA_200_cr	16.24	147.19	149.55		149.93	0.006113	2.74	5.92	2.52	0.57
Ornaccio	22	Max WS	SA_100_cr	16.64	147.19	149.27		149.79	0.008743	3.18	5.23	2.52	0.70
Ornaccio	22	Max WS	SA_30_cr	14.83	147.19	148.81		149.49	0.013272	3.66	4.06	2.52	0.92
Ornaccio	22	Max WS	SA_20_cr	13.56	147.19	148.69		149.35	0.013376	3.59	3.77	2.52	0.94
Ornaccio	21	Max WS	SA_200_cr	19.49	146.88	149.31	148.49	149.66	0.003581	2.62	7.44	3.10	0.54
Ornaccio	21	Max WS	SA_100_cr	18.22	146.88	149.21	148.42	149.54	0.003502	2.56	7.12	3.10	0.54
Ornaccio	21	Max WS	SA_30_cr	14.83	146.88	148.88	148.23	149.18	0.003440	2.43	6.10	3.09	0.55

HEC-RAS River: Ornaccio Reach: Ornaccio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio	21	Max WS	SA_20_cr	13.55	146.88	148.74	148.15	149.03	0.003497	2.40	5.66	3.08	0.56
Ornaccio	20.5			Bridge									
Ornaccio	20	Max WS	SA_200_cr	19.49	146.74	149.07		149.41	0.003301	2.58	7.55	3.46	0.56
Ornaccio	20	Max WS	SA_100_cr	18.22	146.74	149.01		149.32	0.003109	2.48	7.34	3.45	0.54
Ornaccio	20	Max WS	SA_30_cr	14.83	146.74	148.80		149.06	0.002685	2.24	6.62	3.43	0.51
Ornaccio	20	Max WS	SA_20_cr	13.55	146.74	148.71		148.94	0.002555	2.15	6.30	3.41	0.50
Ornaccio	19.98			Lat Struct									
Ornaccio	19	Max WS	SA_200_cr	19.28	146.71	148.99		149.39	0.005540	2.80	6.89	3.05	0.59
Ornaccio	19	Max WS	SA_100_cr	18.12	146.71	148.92		149.30	0.005265	2.71	6.69	3.04	0.58
Ornaccio	19	Max WS	SA_30_cr	14.83	146.71	148.73		149.03	0.004460	2.43	6.11	3.04	0.55
Ornaccio	19	Max WS	SA_20_cr	13.55	146.71	148.65		148.92	0.004172	2.32	5.84	3.04	0.53
Ornaccio	18	Max WS	SA_200_cr	19.28	146.69	148.99		149.37	0.005120	2.73	7.07	3.14	0.58
Ornaccio	18	Max WS	SA_100_cr	18.12	146.69	148.93		149.28	0.004874	2.64	6.87	3.13	0.57
Ornaccio	18	Max WS	SA_30_cr	14.83	146.69	148.73		149.02	0.004147	2.37	6.26	3.12	0.53
Ornaccio	18	Max WS	SA_20_cr	13.55	146.69	148.65		148.91	0.003883	2.26	5.99	3.12	0.52
Ornaccio	17.9	Max WS	SA_200_cr	19.28	146.69	148.95		149.35	0.005364	2.78	6.94	3.14	0.60
Ornaccio	17.9	Max WS	SA_100_cr	18.12	146.69	148.89		149.26	0.005095	2.68	6.75	3.13	0.58
Ornaccio	17.9	Max WS	SA_30_cr	14.83	146.69	148.70		149.00	0.004312	2.41	6.16	3.12	0.55
Ornaccio	17.9	Max WS	SA_20_cr	13.55	146.69	148.62		148.89	0.004033	2.30	5.90	3.12	0.53
Ornaccio	17	Max WS	SA_200_cr	5.01	146.64	148.80		148.83	0.000592	0.86	5.82	2.70	0.19
Ornaccio	17	Max WS	SA_100_cr	18.11	146.64	148.68		149.23	0.008923	3.29	5.51	2.70	0.74
Ornaccio	17	Max WS	SA_30_cr	14.83	146.64	148.55		148.97	0.007070	2.88	5.15	2.70	0.66
Ornaccio	17	Max WS	SA_20_cr	13.54	146.64	148.48		148.86	0.006445	2.72	4.98	2.70	0.64
Ornaccio	16	Max WS	SA_200_cr	5.01	146.63	148.80		148.83	0.000574	0.85	5.89	2.72	0.18
Ornaccio	16	Max WS	SA_100_cr	18.10	146.63	148.66		149.21	0.008862	3.28	5.51	2.72	0.74
Ornaccio	16	Max WS	SA_30_cr	14.83	146.63	148.54		148.95	0.006966	2.86	5.18	2.72	0.66
Ornaccio	16	Max WS	SA_20_cr	13.54	146.63	148.47		148.84	0.006336	2.70	5.01	2.72	0.64
Ornaccio	15.6	Max WS	SA_200_cr	19.28	146.60	148.85		149.23	0.005786	2.75	7.00	3.91	0.66
Ornaccio	15.6	Max WS	SA_100_cr	18.11	146.60	148.79		149.15	0.005539	2.67	6.78	3.82	0.64

HEC-RAS River: Ornaccio Reach: Ornaccio Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio	15.6	Max WS	SA_30_cr	14.83	146.60	148.62		148.92	0.004722	2.41	6.16	3.57	0.59
Ornaccio	15.6	Max WS	SA_20_cr	13.54	146.60	148.54		148.81	0.004022	2.29	5.91	3.08	0.53
Ornaccio	15.5	Max WS	SA_200_cr	19.28	146.60	148.92		149.20	0.003579	2.34	8.23	4.82	0.57
Ornaccio	15.5	Max WS	SA_100_cr	18.11	146.60	148.86		149.12	0.003485	2.29	7.92	4.70	0.56
Ornaccio	15.5	Max WS	SA_30_cr	14.83	146.60	148.67		148.89	0.003136	2.10	7.06	4.34	0.53
Ornaccio	15.5	Max WS	SA_20_cr	13.54	146.60	148.58		148.79	0.002742	2.02	6.71	3.76	0.48
Ornaccio	15	Max WS	SA_200_cr	19.28	146.54	149.03		149.18	0.001644	1.75	11.02	6.70	0.44
Ornaccio	15	Max WS	SA_100_cr	18.11	146.54	148.95		149.10	0.001628	1.72	10.55	6.52	0.43
Ornaccio	15	Max WS	SA_30_cr	14.83	146.54	148.74		148.87	0.001549	1.61	9.22	5.99	0.41
Ornaccio	15	Max WS	SA_20_cr	13.55	146.54	148.65		148.77	0.001512	1.56	8.68	5.77	0.41
Ornaccio	14	Max WS	SA_200_cr	19.27	146.48	148.90		149.15	0.003101	2.22	8.70	4.99	0.54
Ornaccio	14	Max WS	SA_100_cr	18.11	146.48	148.83		149.07	0.003014	2.16	8.38	4.87	0.53
Ornaccio	14	Max WS	SA_30_cr	14.83	146.48	148.64		148.84	0.002692	1.98	7.49	4.52	0.49
Ornaccio	14	Max WS	SA_20_cr	13.55	146.48	148.56		148.74	0.002552	1.90	7.12	4.37	0.48
Ornaccio	13.1	Max WS	SA_200_cr	19.26	146.44	148.87		149.11	0.003024	2.19	8.80	5.11	0.53
Ornaccio	13.1	Max WS	SA_100_cr	18.11	146.44	148.80		149.04	0.002944	2.14	8.48	4.99	0.52
Ornaccio	13.1	Max WS	SA_30_cr	14.83	146.44	148.62		148.81	0.002632	1.96	7.58	4.63	0.49
Ornaccio	13.1	Max WS	SA_20_cr	13.54	146.44	148.54		148.72	0.002492	1.88	7.21	4.47	0.47
Ornaccio	13.01			Lat Struct									
Ornaccio	13	Max WS	SA_200_cr	3.00	146.44	148.82		148.84	0.000206	0.50	5.97	2.51	0.10
Ornaccio	13	Max WS	SA_100_cr	16.70	146.44	148.59		149.08	0.008253	3.11	5.37	2.51	0.68
Ornaccio	13	Max WS	SA_30_cr	13.84	146.44	148.45		148.83	0.006693	2.75	5.03	2.51	0.62
Ornaccio	13	Max WS	SA_20_cr	12.75	146.44	148.38		148.73	0.006182	2.62	4.86	2.51	0.60
Ornaccio	12	Max WS	SA_200_cr	16.14	146.38	148.91		149.18	0.004260	2.28	7.09	4.54	0.58
Ornaccio	12	Max WS	SA_100_cr	15.30	146.38	148.83		149.09	0.004423	2.28	6.71	4.37	0.59
Ornaccio	12	Max WS	SA_30_cr	12.90	146.38	148.58		148.84	0.004845	2.27	5.69	3.87	0.60
Ornaccio	12	Max WS	SA_20_cr	11.99	146.38	148.47		148.73	0.005093	2.27	5.28	3.65	0.60
Ornaccio	11	Max WS	SA_200_cr	0.96	146.31	148.84		148.84	0.000015	0.13	7.12	4.57	0.03
Ornaccio	11	Max WS	SA_100_cr	15.30	146.31	148.73		149.00	0.004602	2.31	6.61	4.34	0.60
Ornaccio	11	Max WS	SA_30_cr	12.89	146.31	148.46		148.74	0.005217	2.33	5.53	3.81	0.62

HEC-RAS River: Ornaccio Reach: Ornaccio Profile: Max WS (Continued)

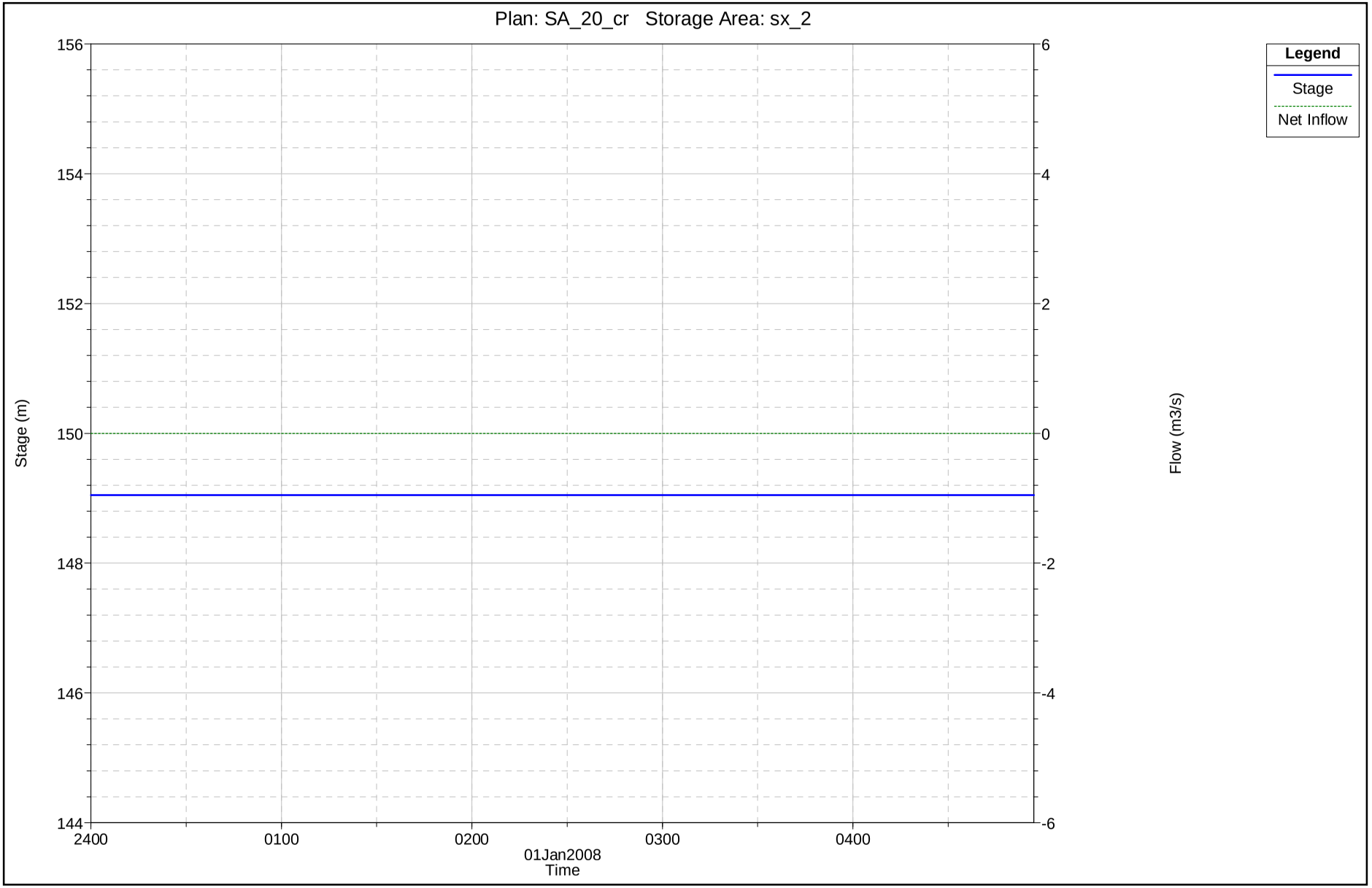
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio	11	Max WS	SA_20_cr	11.99	146.31	148.36		148.63	0.005496	2.34	5.13	3.59	0.62
Ornaccio	10	Max WS	SA_200_cr	0.96	146.27	148.84		148.84	0.000014	0.13	7.31	4.65	0.03
Ornaccio	10	Max WS	SA_100_cr	15.30	146.27	148.68		148.96	0.004669	2.33	6.58	4.33	0.60
Ornaccio	10	Max WS	SA_30_cr	12.89	146.27	148.41		148.69	0.005396	2.36	5.46	3.77	0.63
Ornaccio	10	Max WS	SA_20_cr	11.99	146.27	148.30		148.58	0.005683	2.37	5.07	3.55	0.63
Ornaccio	09	Max WS	SA_200_cr	0.96	146.25	148.84		148.84	0.000013	0.13	7.40	4.68	0.03
Ornaccio	09	Max WS	SA_100_cr	15.30	146.25	148.65		148.93	0.004717	2.34	6.54	4.30	0.61
Ornaccio	09	Max WS	SA_30_cr	12.89	146.25	148.37		148.66	0.005521	2.38	5.41	3.74	0.63
Ornaccio	09	Max WS	SA_20_cr	11.99	146.25	148.26		148.55	0.005769	2.38	5.03	3.53	0.64
Ornaccio	08	Max WS	SA_200_cr	0.96	146.22	148.84		148.84	0.000013	0.13	7.53	4.74	0.03
Ornaccio	08	Max WS	SA_100_cr	15.30	146.22	148.63		148.91	0.004646	2.32	6.59	4.32	0.60
Ornaccio	08	Max WS	SA_30_cr	12.89	146.22	148.35		148.63	0.005492	2.38	5.42	3.74	0.63
Ornaccio	08	Max WS	SA_20_cr	11.99	146.22	148.24		148.53	0.005794	2.39	5.02	3.52	0.64
Ornaccio	07	Max WS	SA_200_cr	0.95	146.15	148.84		148.84	0.000015	0.14	6.73	2.60	0.03
Ornaccio	07	Max WS	SA_100_cr	5.03	146.15	148.48		148.52	0.000599	0.87	5.81	2.58	0.18
Ornaccio	07	Max WS	SA_30_cr	12.89	146.15	148.19		148.52	0.005588	2.55	5.05	2.57	0.58
Ornaccio	07	Max WS	SA_20_cr	11.99	146.15	148.10		148.41	0.005469	2.50	4.80	2.57	0.58
Ornaccio	06	Max WS	SA_200_cr	0.95	146.07	148.84	146.37	148.84	0.000021	0.14	6.82		0.03
Ornaccio	06	Max WS	SA_100_cr	5.03	146.07	148.47	146.87	148.51	0.000558	0.84	5.98	2.59	0.18
Ornaccio	06	Max WS	SA_30_cr	12.89	146.07	148.05	147.51	148.41	0.006069	2.64	4.88	2.57	0.61
Ornaccio	06	Max WS	SA_20_cr	11.99	146.07	147.96	147.45	148.30	0.005933	2.58	4.65	2.56	0.61
Ornaccio	05	Max WS	SA_200_cr	0.95	145.99	148.84	146.29	148.84	0.000020	0.14	7.02		0.03
Ornaccio	05	Max WS	SA_100_cr	5.03	145.99	148.47	146.78	148.50	0.000519	0.82	6.16	2.58	0.17
Ornaccio	05	Max WS	SA_30_cr	12.89	145.99	147.89	147.43	148.28	0.006782	2.76	4.68	2.56	0.65
Ornaccio	05	Max WS	SA_20_cr	11.99	145.99	147.80	147.37	148.17	0.006618	2.69	4.46	2.56	0.65
Ornaccio	04	Max WS	SA_200_cr	0.95	145.87	148.84	146.17	148.84	0.000018	0.13	7.33		0.02
Ornaccio	04	Max WS	SA_100_cr	5.03	145.87	148.45	146.66	148.49	0.000466	0.78	6.43	2.58	0.16
Ornaccio	04	Max WS	SA_30_cr	5.00	145.87	147.69	146.66	147.76	0.001135	1.11	4.48	2.55	0.27
Ornaccio	04	Max WS	SA_20_cr	4.98	145.87	147.49	146.66	147.57	0.001554	1.26	3.95	2.55	0.32
Ornaccio	03	Max WS	SA_200_cr	0.95	145.85	148.84	146.15	148.84	0.000017	0.13	7.48		0.02

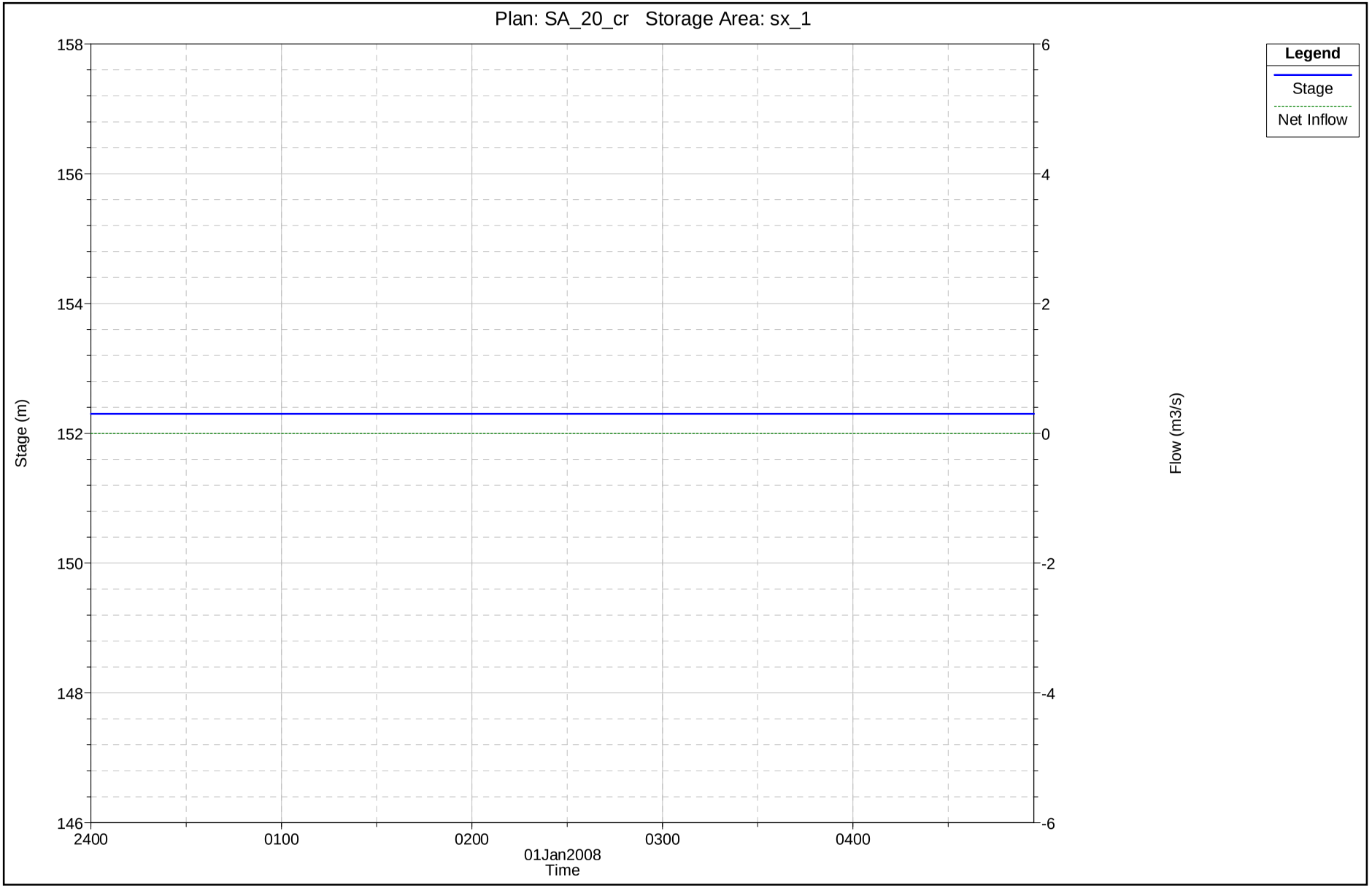
HEC-RAS River: Ornaccio Reach: Ornaccio Profile: Max WS (Continued)

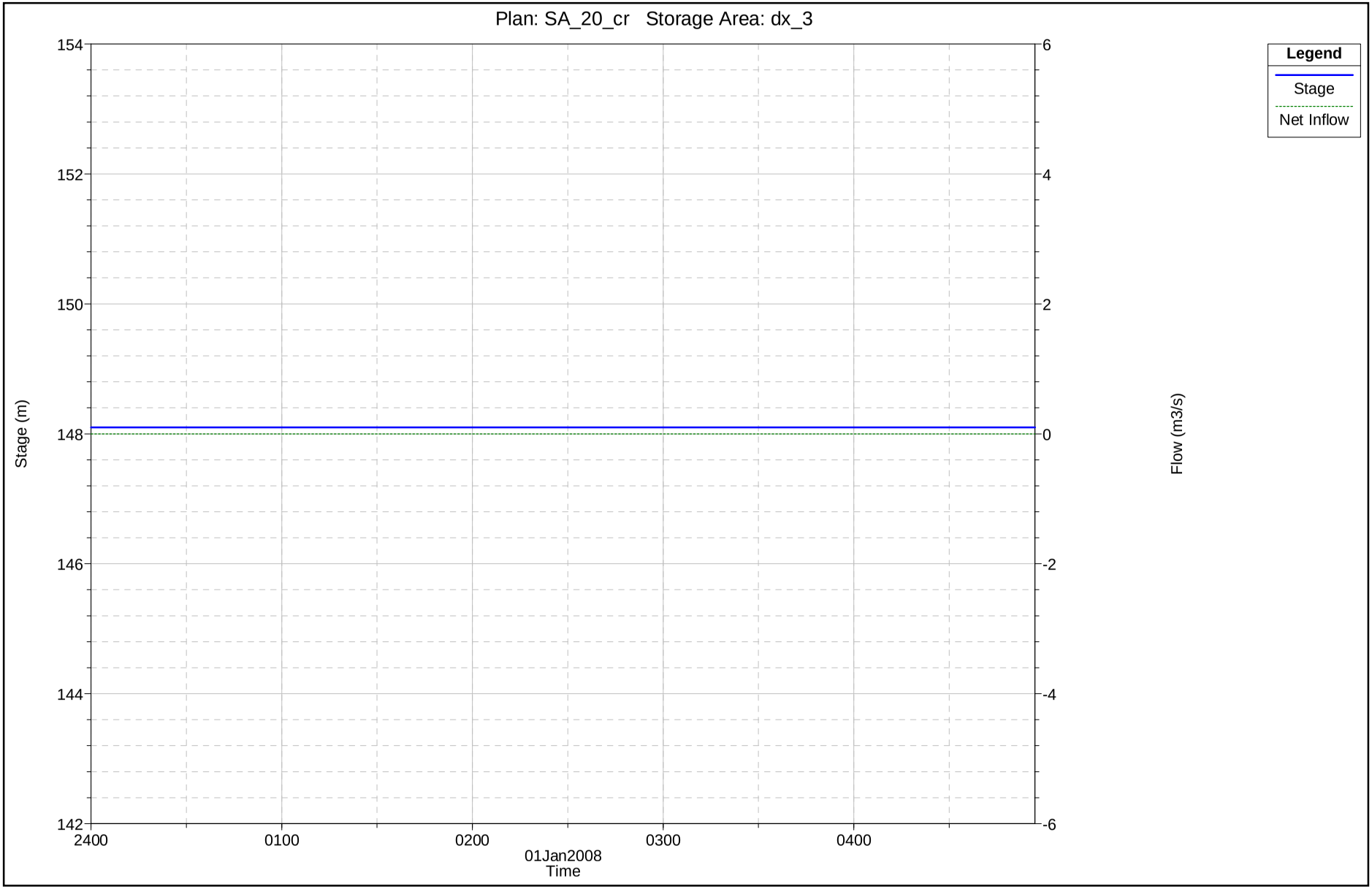
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Ornaccio	03	Max WS	SA_100_cr	5.03	145.85	148.45	146.64	148.48	0.000441	0.77	6.56	2.64	0.16
Ornaccio	03	Max WS	SA_30_cr	4.99	145.85	147.69	146.64	147.75	0.001077	1.09	4.56	2.60	0.26
Ornaccio	03	Max WS	SA_20_cr	4.98	145.85	147.48	146.64	147.56	0.001481	1.24	4.02	2.59	0.32
Ornaccio	02	Max WS	SA_200_cr	0.95	145.82	148.84	146.12	148.84	0.000016	0.13	7.53		0.02
Ornaccio	02	Max WS	SA_100_cr	5.03	145.82	148.45	146.61	148.48	0.000429	0.76	6.63	2.64	0.15
Ornaccio	02	Max WS	SA_30_cr	4.99	145.82	147.69	146.61	147.75	0.001038	1.08	4.63	2.60	0.26
Ornaccio	02	Max WS	SA_20_cr	4.97	145.82	147.48	146.61	147.55	0.001420	1.22	4.08	2.59	0.31
Ornaccio	01	Max WS	SA_200_cr	0.95	145.74	148.84	146.04	148.84	0.000015	0.12	7.75		0.02
Ornaccio	01	Max WS	SA_100_cr	5.02	145.74	148.44	146.53	148.47	0.000401	0.74	6.80	2.64	0.15
Ornaccio	01	Max WS	SA_30_cr	5.00	145.74	147.67	146.53	147.72	0.000961	1.05	4.77	2.59	0.25
Ornaccio	01	Max WS	SA_20_cr	4.97	145.74	147.45	146.53	147.52	0.001310	1.18	4.21	2.58	0.29
Ornaccio	0.5	Max WS	SA_200_cr	0.91	145.70	148.84	145.98	148.84	0.000013	0.12	7.95		0.02
Ornaccio	0.5	Max WS	SA_100_cr	4.96	145.70	148.44	146.48	148.47	0.000365	0.71	6.98	2.68	0.14
Ornaccio	0.5	Max WS	SA_30_cr	4.96	145.70	147.66	146.48	147.71	0.000873	1.01	4.92	2.62	0.24
Ornaccio	0.5	Max WS	SA_20_cr	4.97	145.70	147.44	146.48	147.51	0.001204	1.15	4.34	2.61	0.28

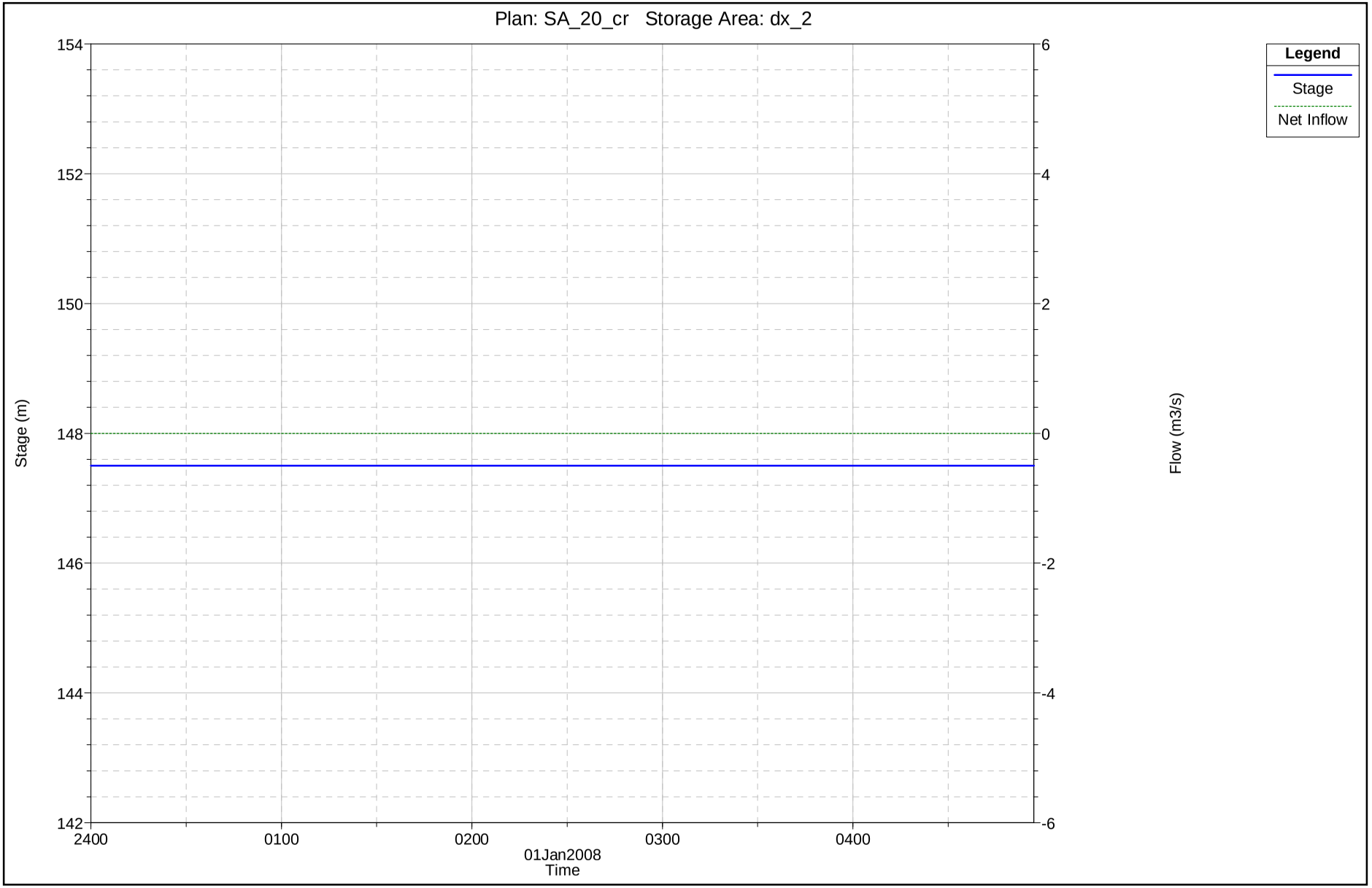
HEC-RAS Profile: Max WS

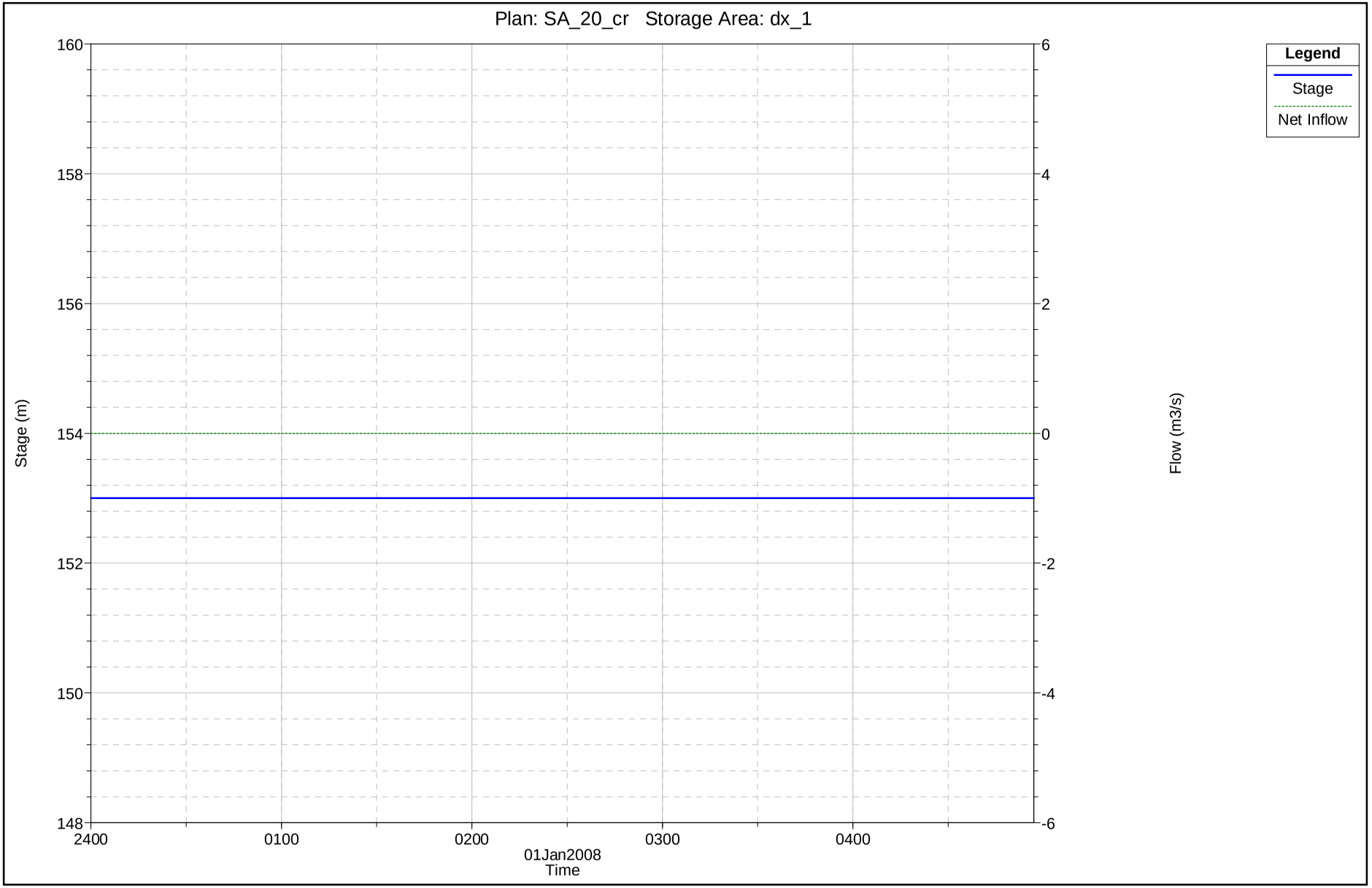
Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
dx_1	Max WS	SA_200_cr	153.07	153.00	0.10	2.50	0.16
dx_1	Max WS	SA_100_cr	153.00	153.00	0.01	2.50	0.00
dx_1	Max WS	SA_30_cr	153.00	153.00	0.00	2.50	0.00
dx_1	Max WS	SA_20_cr	153.00	153.00	0.00	2.50	0.00
dx_2	Max WS	SA_200_cr	147.65	147.50	2.42	15.00	2.20
dx_2	Max WS	SA_100_cr	147.53	147.50	0.55	15.00	0.50
dx_2	Max WS	SA_30_cr	147.50	147.50	0.00	15.00	0.00
dx_2	Max WS	SA_20_cr	147.50	147.50	0.00	15.00	0.00
dx_3	Max WS	SA_200_cr	148.41	148.10	0.21	1.00	0.31
dx_3	Max WS	SA_100_cr	148.20	148.10	0.10	1.00	0.10
dx_3	Max WS	SA_30_cr	148.10	148.10	0.00	1.00	0.00
dx_3	Max WS	SA_20_cr	148.10	148.10	0.00	1.00	0.00
sx_1	Max WS	SA_200_cr	152.43	152.30	0.50	5.25	0.70
sx_1	Max WS	SA_100_cr	152.31	152.30	0.15	5.25	0.07
sx_1	Max WS	SA_30_cr	152.30	152.30	0.00	5.25	0.00
sx_1	Max WS	SA_20_cr	152.30	152.30	0.00	5.25	0.00
sx_2	Max WS	SA_200_cr	149.52	149.05	5.62	2.44	1.14
sx_2	Max WS	SA_100_cr	149.28	149.05	0.30	2.44	0.55
sx_2	Max WS	SA_30_cr	149.05	149.05	0.00	2.44	0.00
sx_2	Max WS	SA_20_cr	149.05	149.05	0.00	2.44	0.00

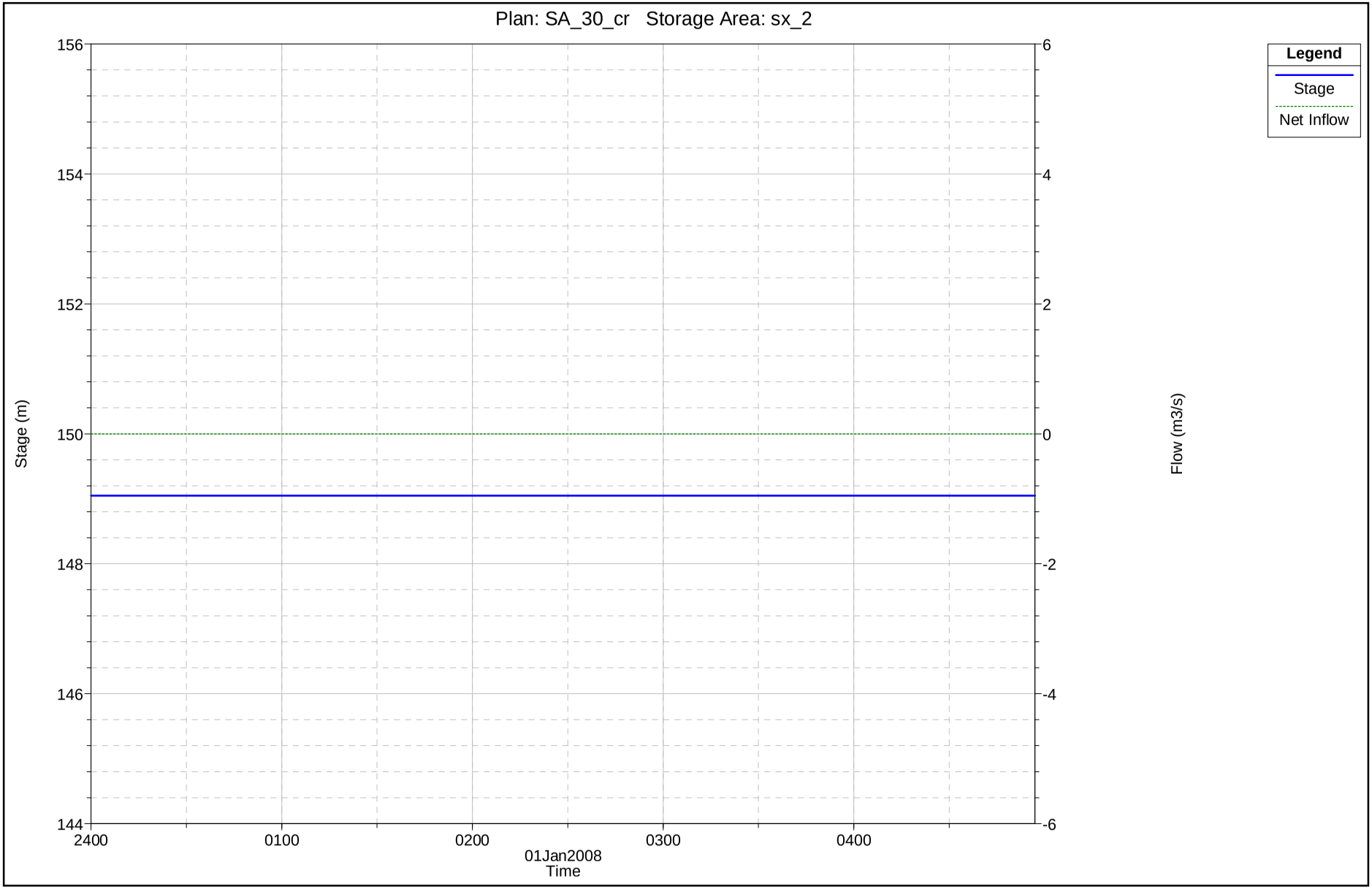

Plan: SA_20_cr Storage Area: sx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
156
154
152
150
148
146
144
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
01Jan2008
Time

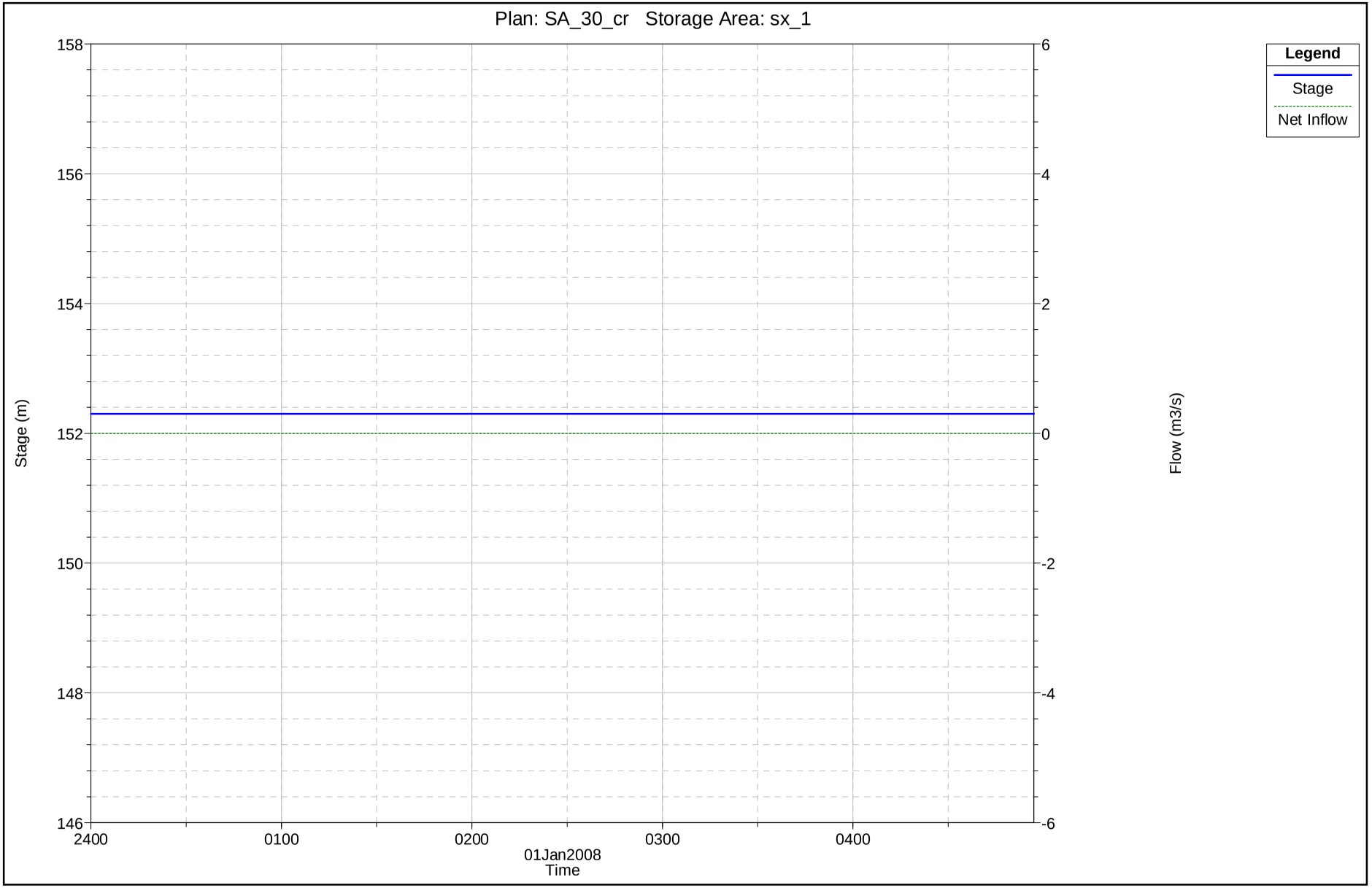

Plan: SA_20_cr Storage Area: sx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
158
156
154
152
150
148
146
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
01Jan2008
Time

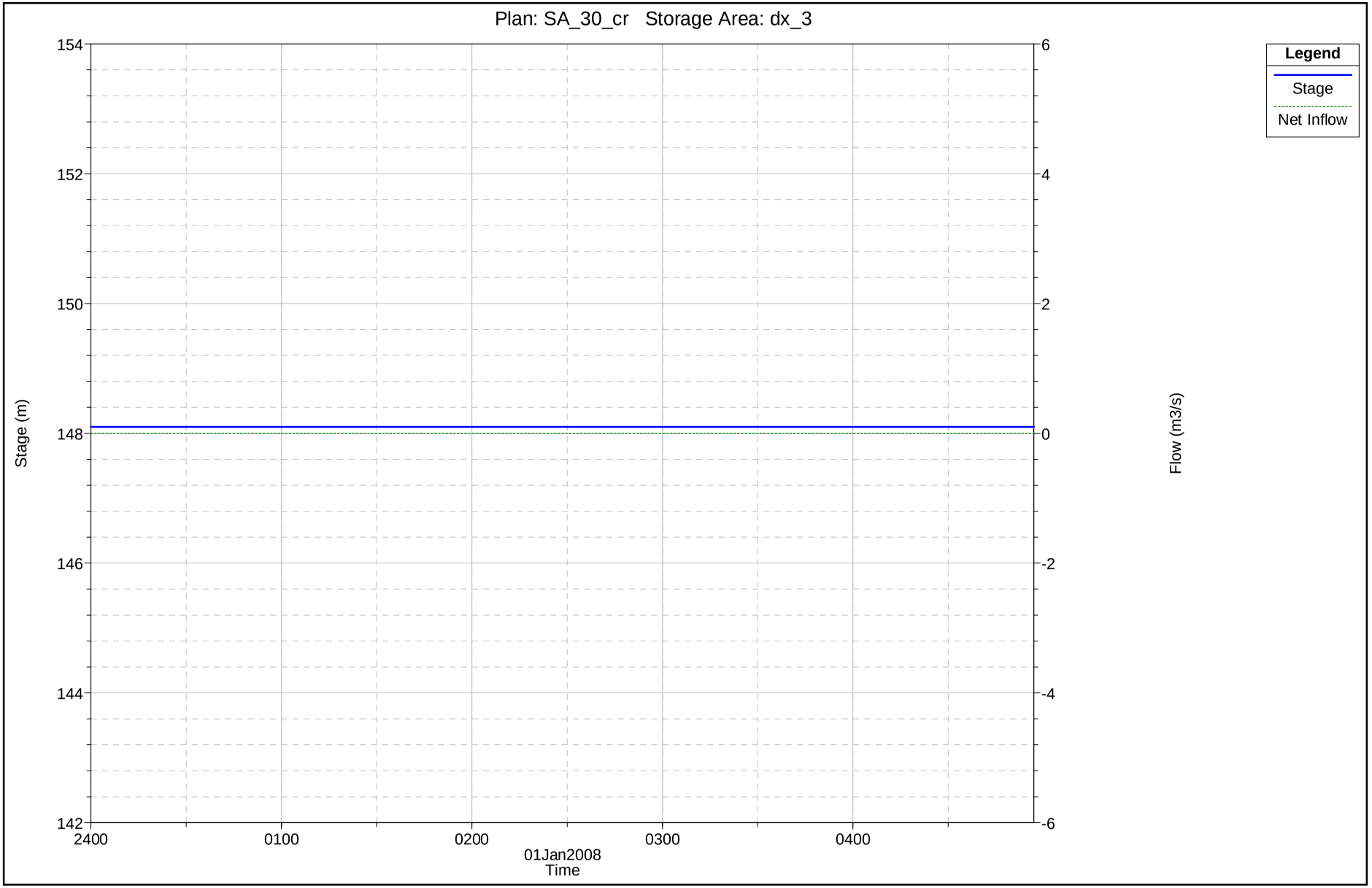

Plan: SA_20_cr Storage Area: dx_3
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
01Jan2008
Time

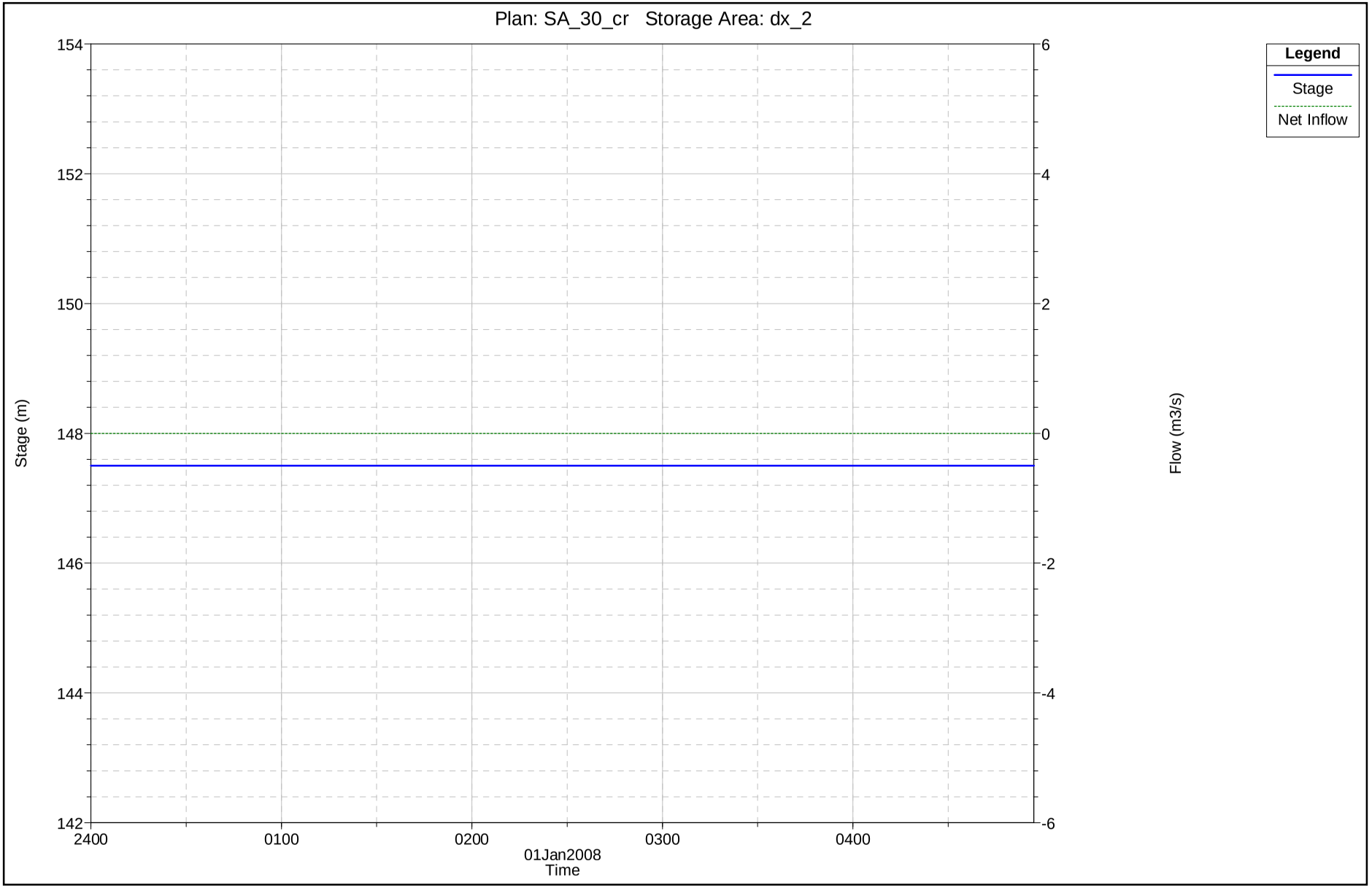

Plan: SA_20_cr Storage Area: dx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
01Jan2008
Time

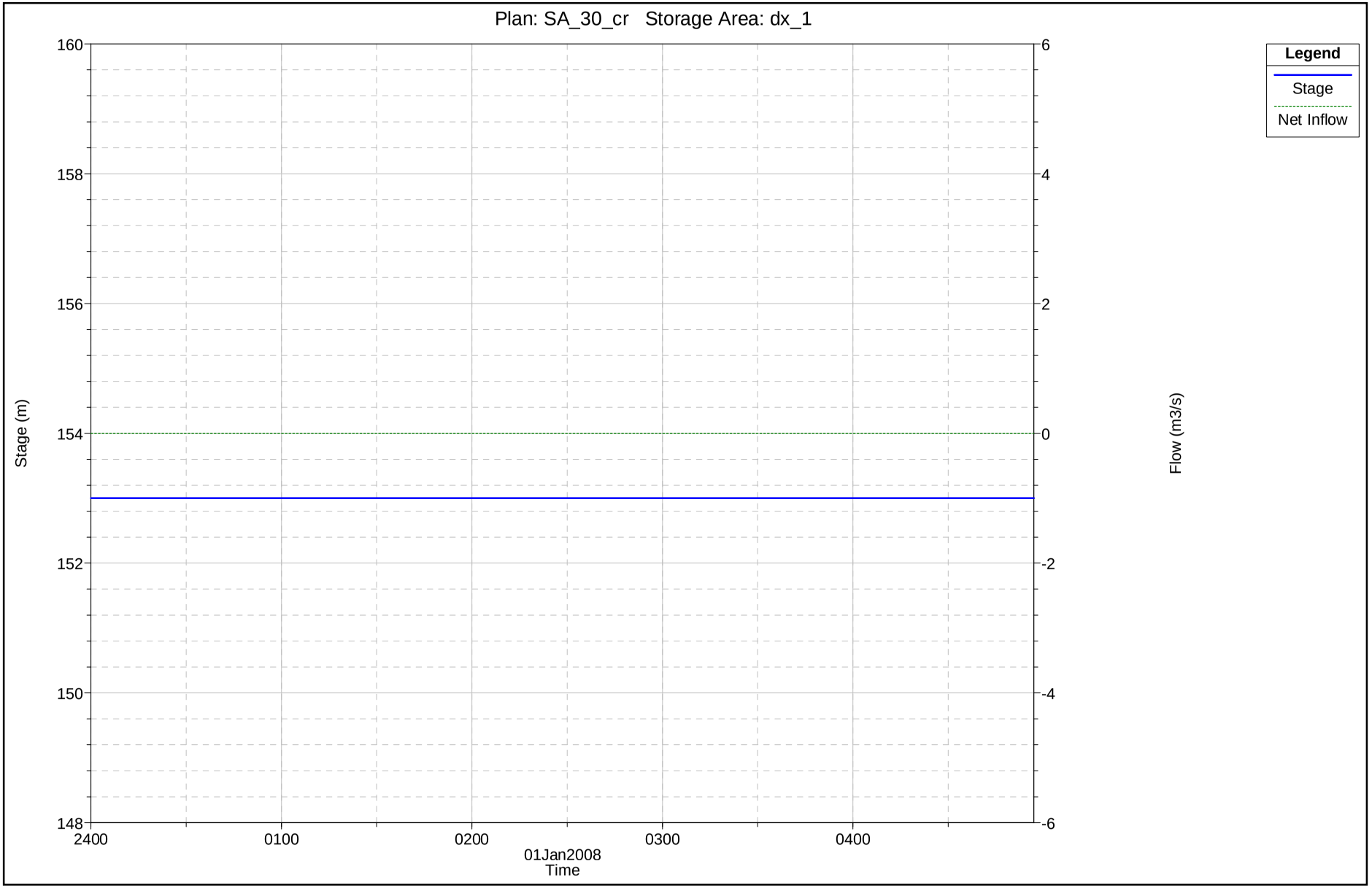

Plan: SA_20_cr Storage Area: dx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
160
158
156
154
152
150
148
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
01Jan2008
Time

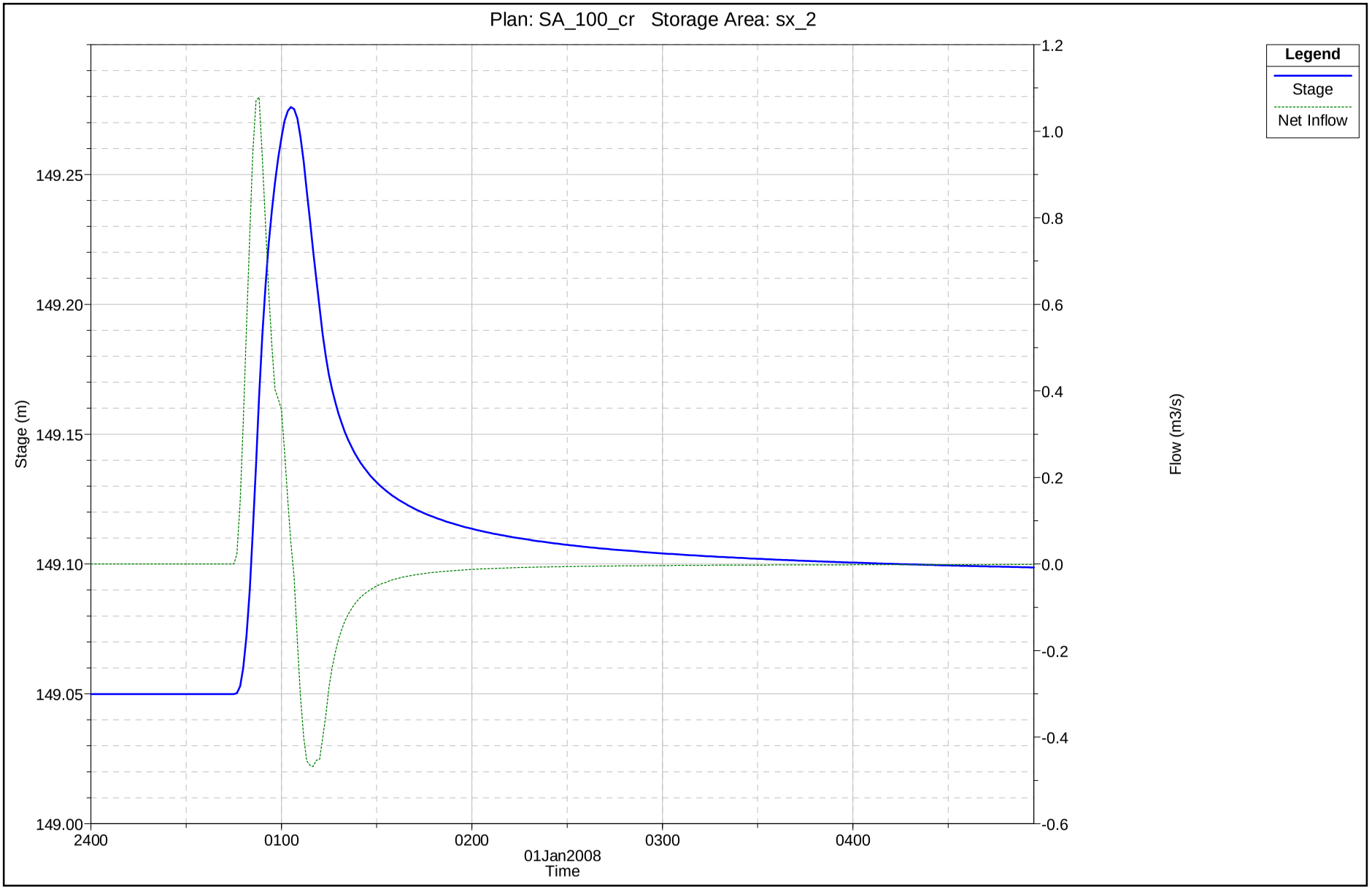

Plan: SA_30_cr Storage Area: sx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
156
154
152
150
148
146
144
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
01Jan2008
Time

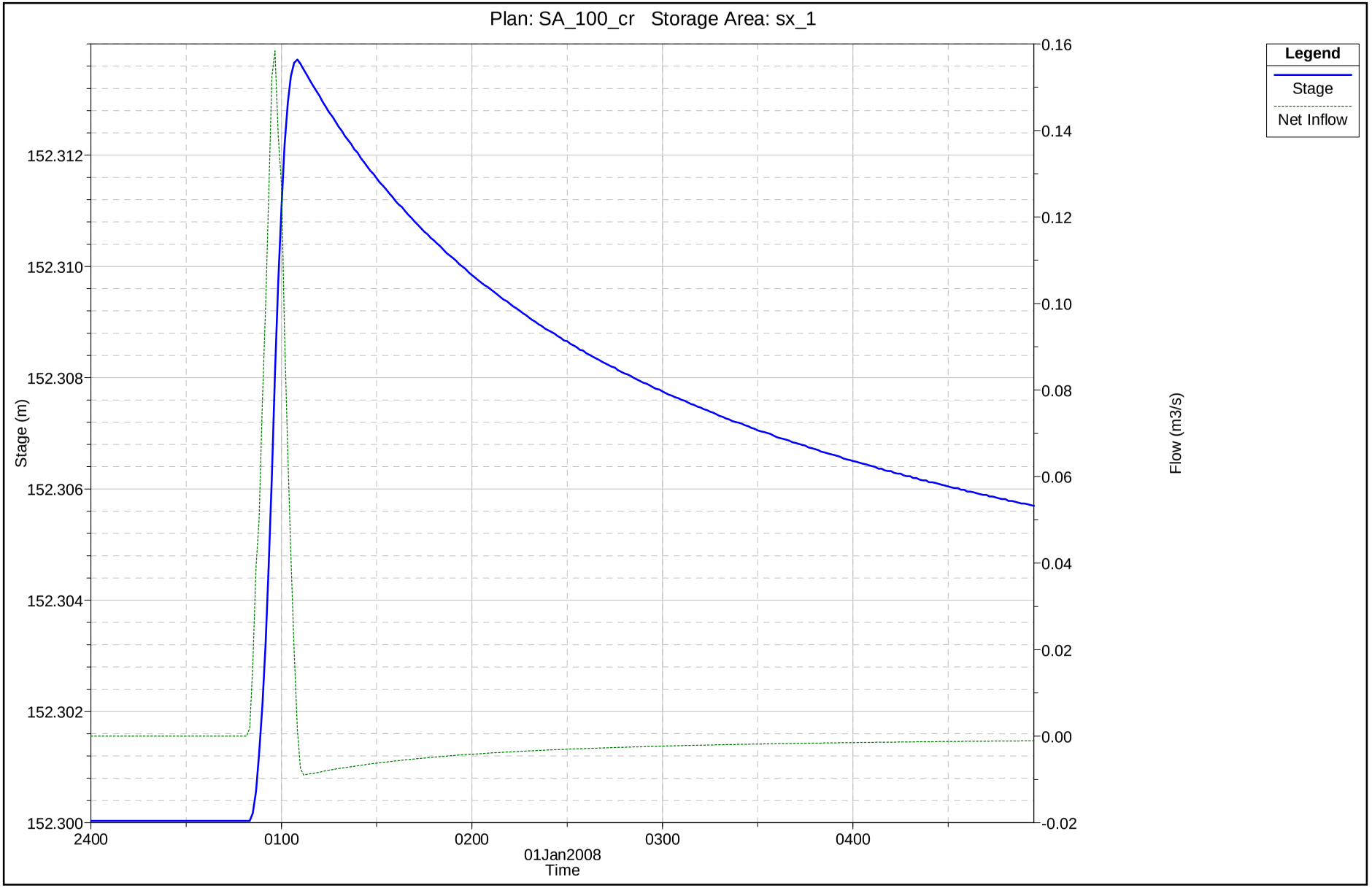

Plan: SA_30_cr Storage Area: sx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
158
156
154
152
150
148
146
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
01Jan2008
Time

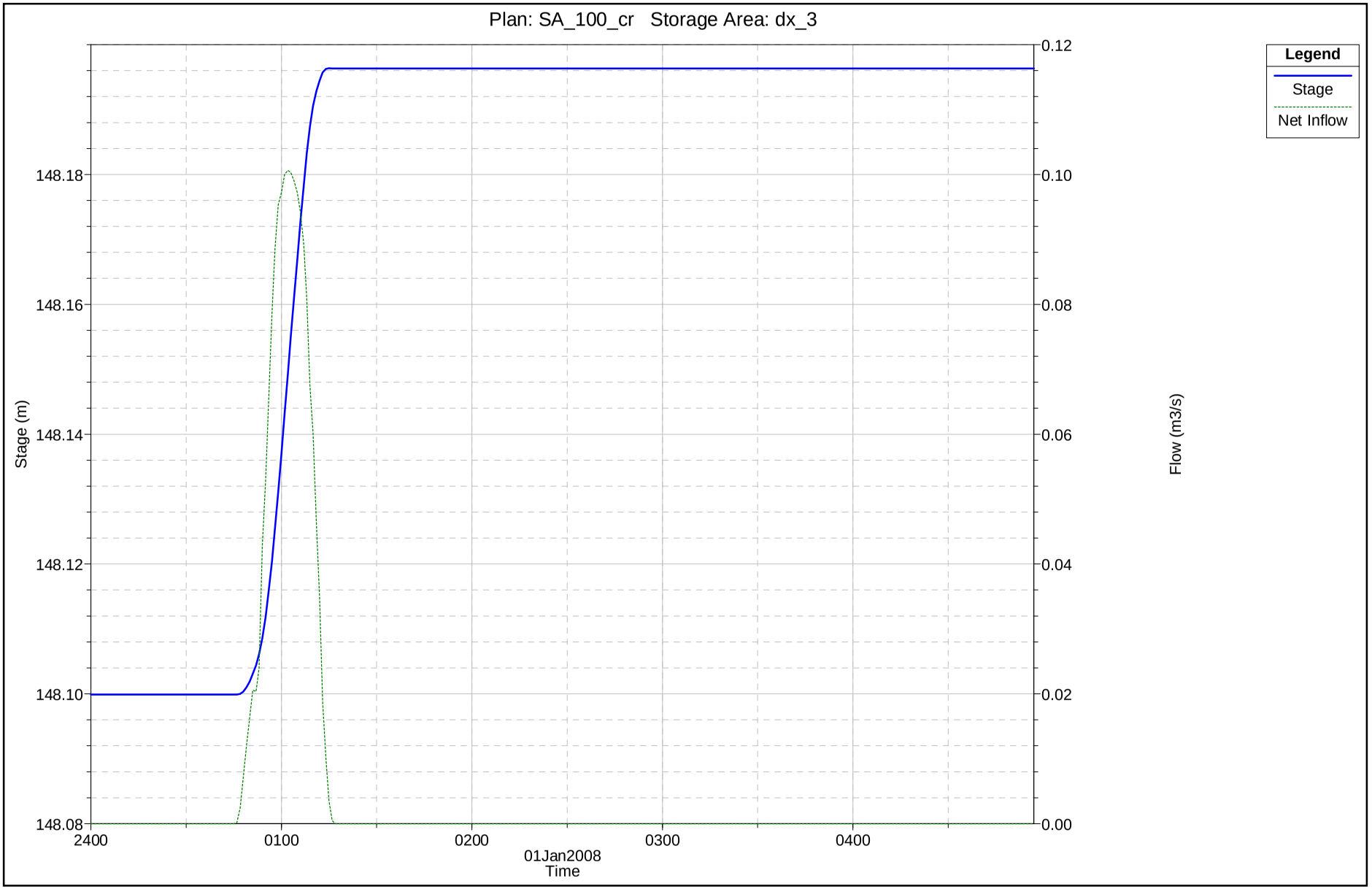

Plan: SA_30_cr Storage Area: dx_3
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
01Jan2008
Time

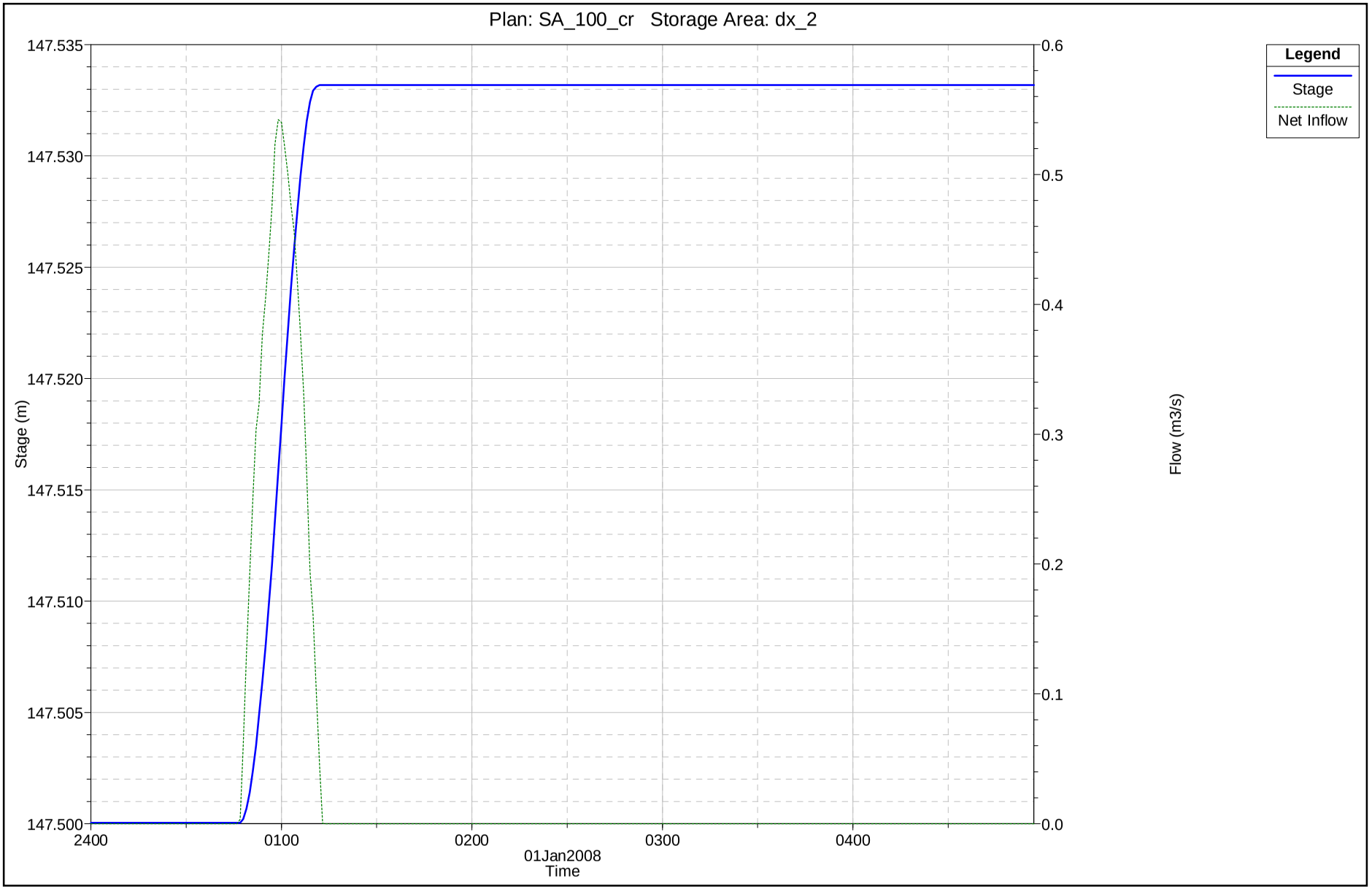

Plan: SA_30_cr Storage Area: dx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
01Jan2008
Time

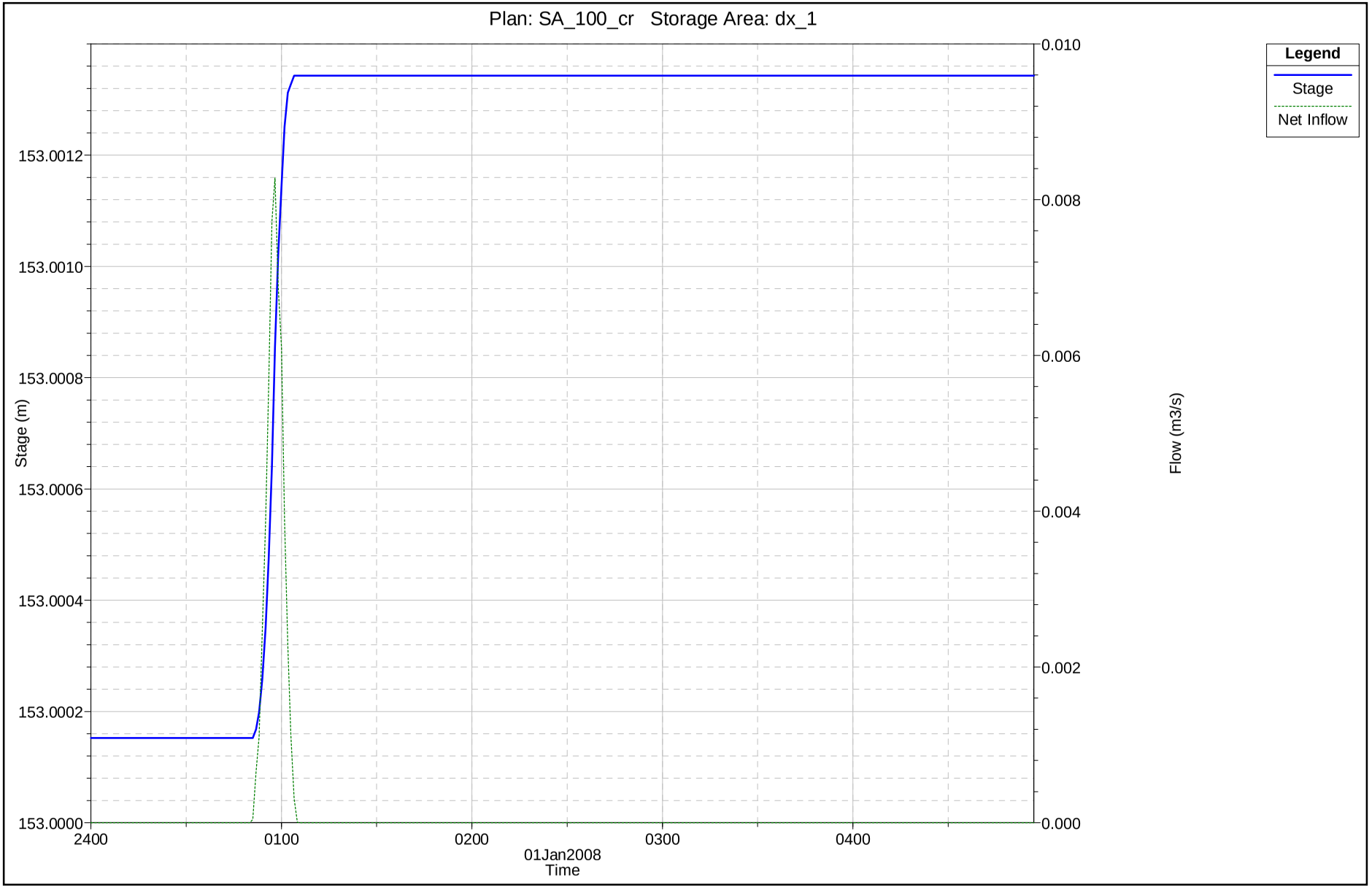

Plan: SA_30_cr Storage Area: dx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
160
158
156
154
152
150
148
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
01Jan2008
Time

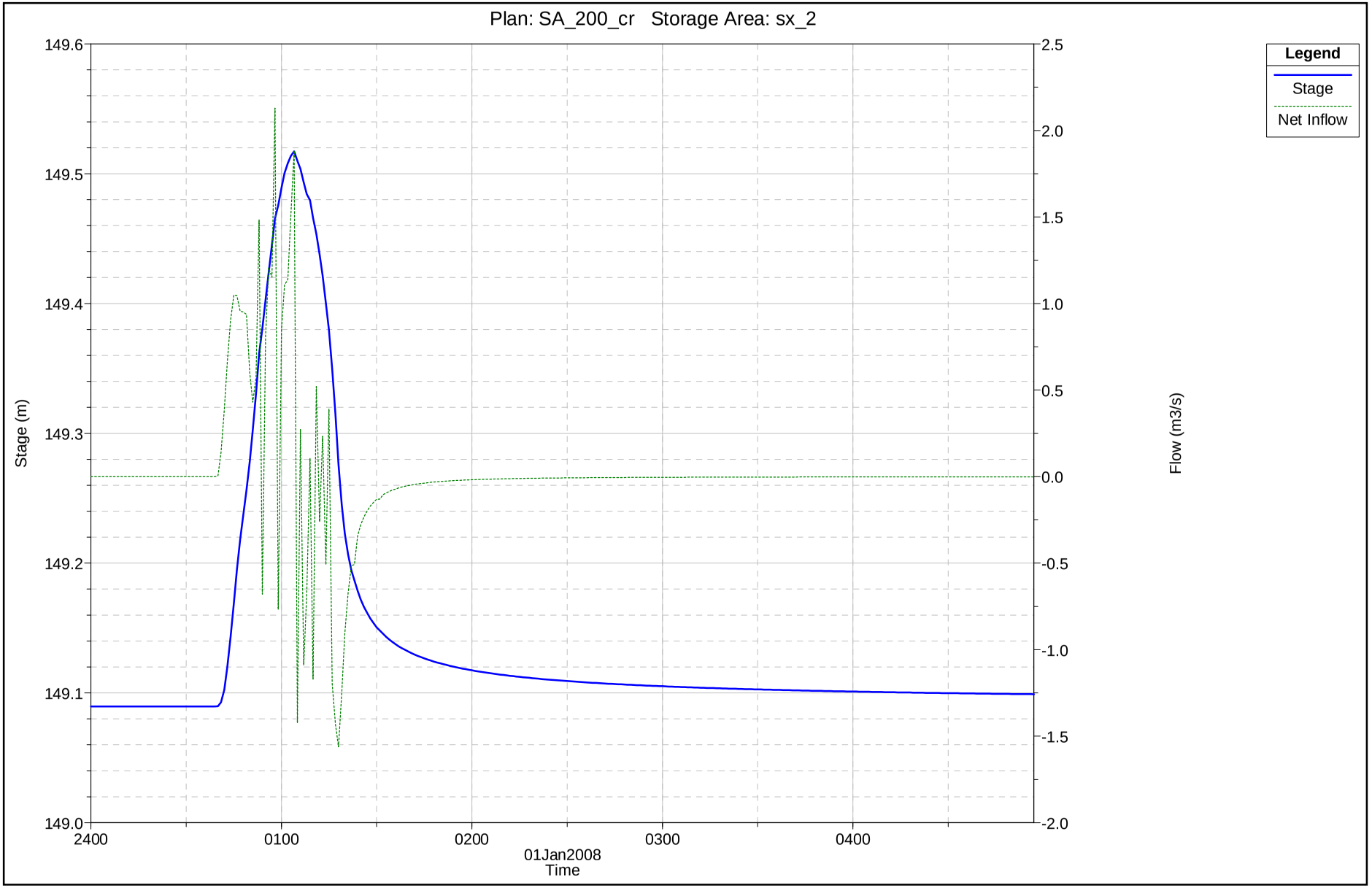

Plan: SA_100_cr Storage Area: sx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
149.25
149.20
149.15
149.10
149.05
149.00
1.2
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
2400
0100
0200
0300
0400
01Jan2008
Time

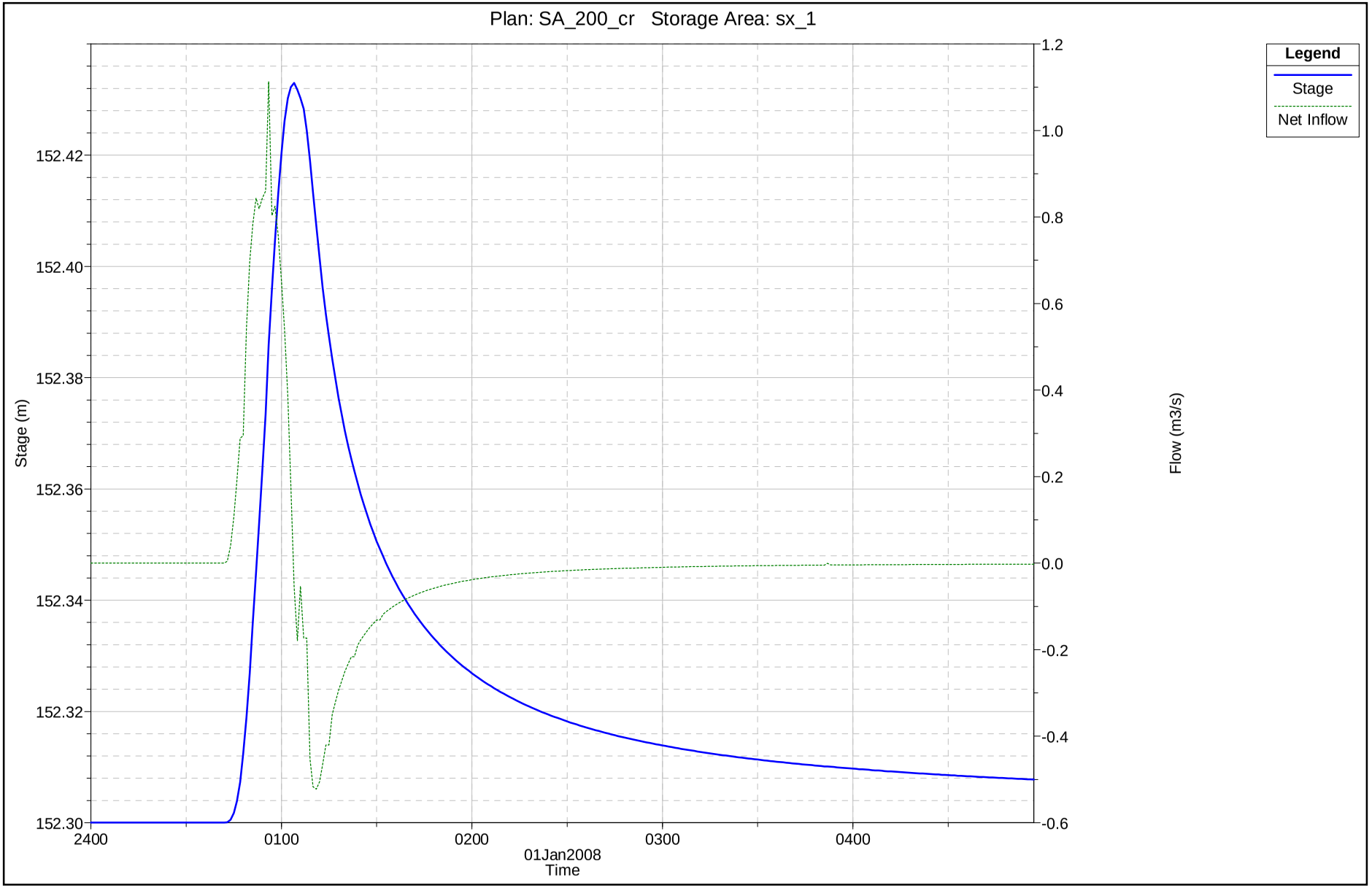

Plan: SA_100_cr Storage Area: sx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
152.312
152.310
152.308
152.306
152.304
152.302
152.300
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-0.02
2400
0100
0200
0300
0400
01Jan2008
Time

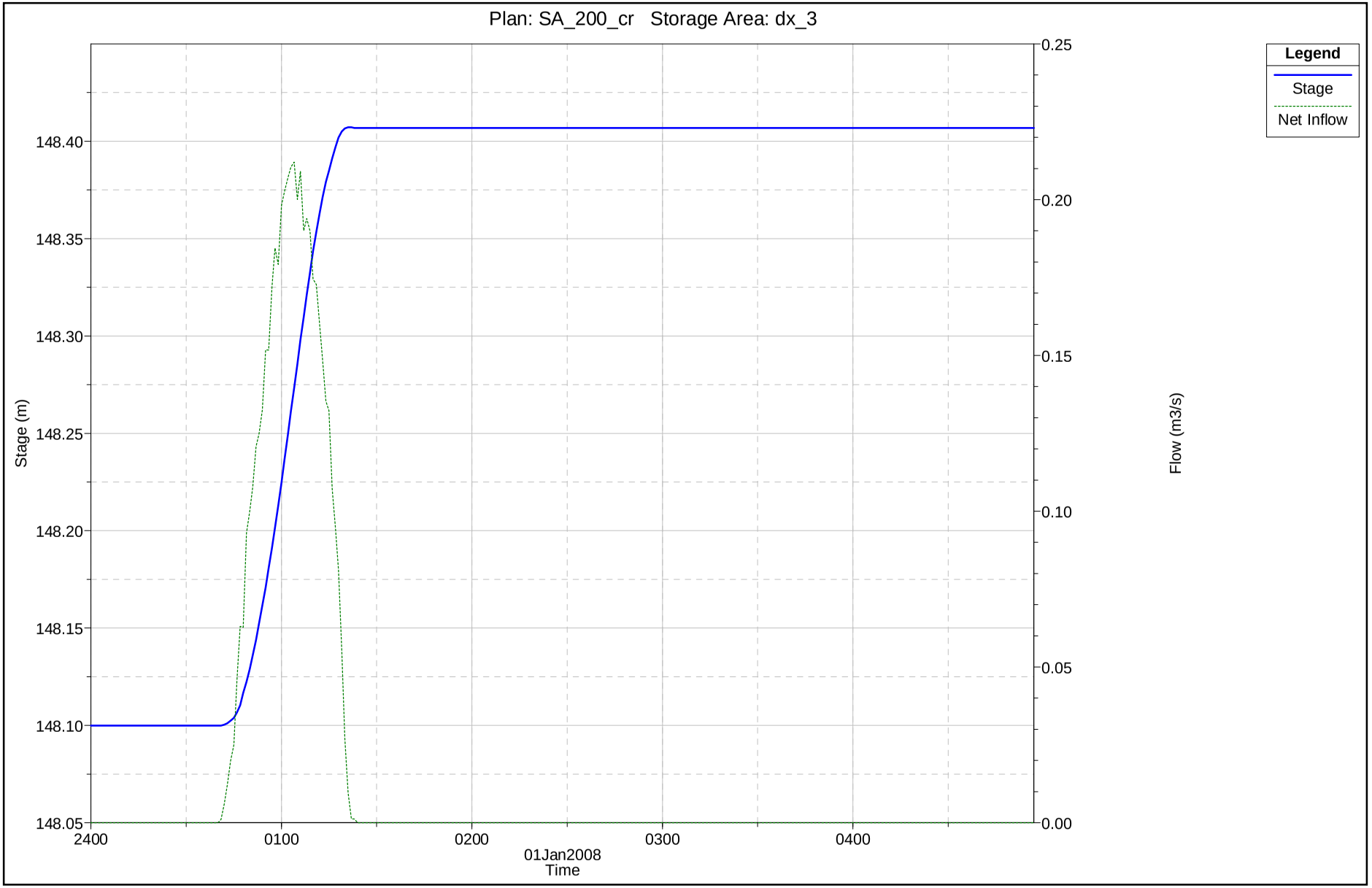

Plan: SA_100_cr Storage Area: dx_3
Legend
Stage
Net Inflow
Stage (m)
148.18
148.16
148.14
148.12
148.10
148.08
Flow (m3/s)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
2400
0100
0200
0300
0400
01Jan2008
Time

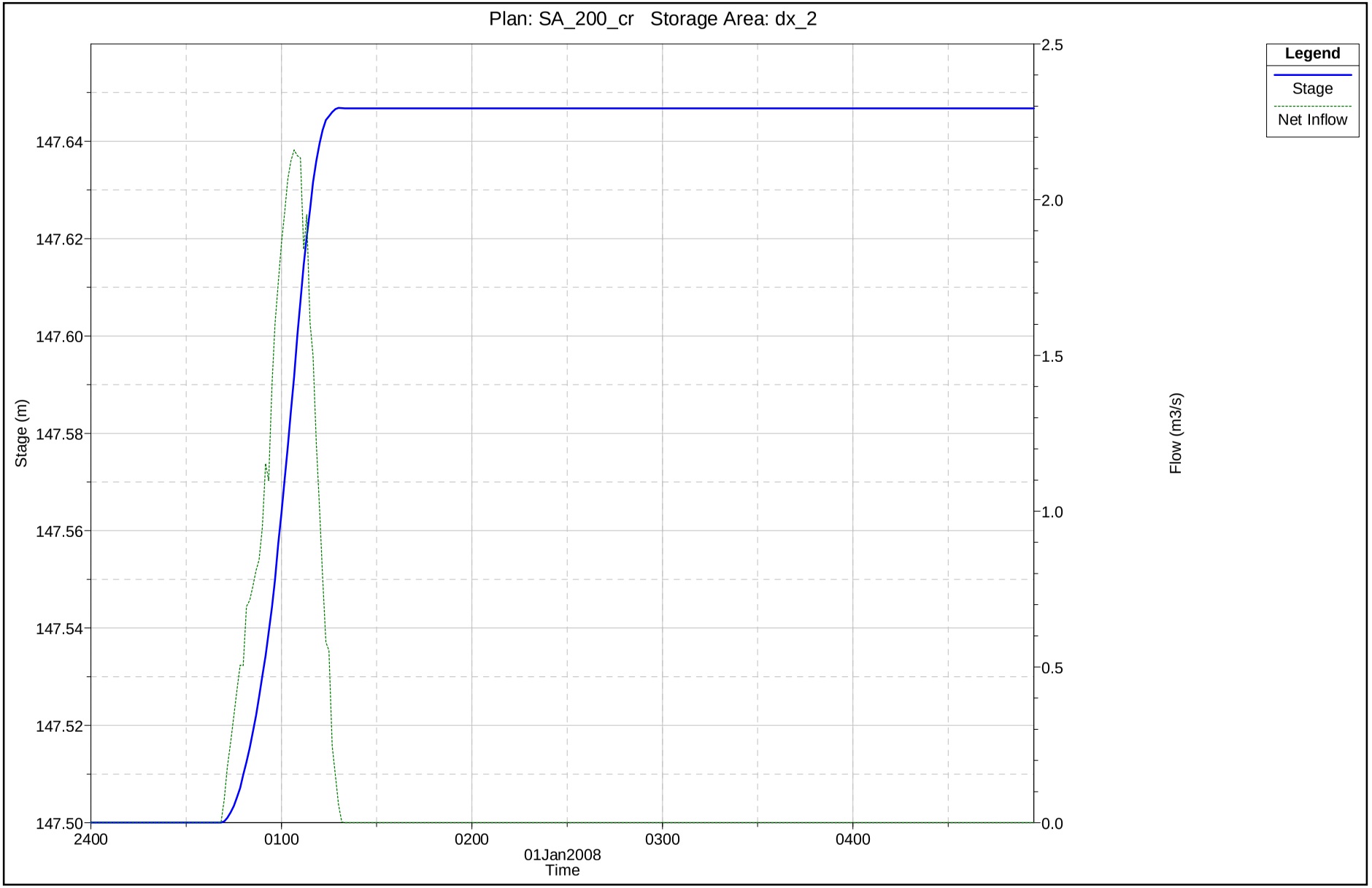

Plan: SA_100_cr Storage Area: dx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
147.535
147.530
147.525
147.520
147.515
147.510
147.505
147.500
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
01Jan2008
Time

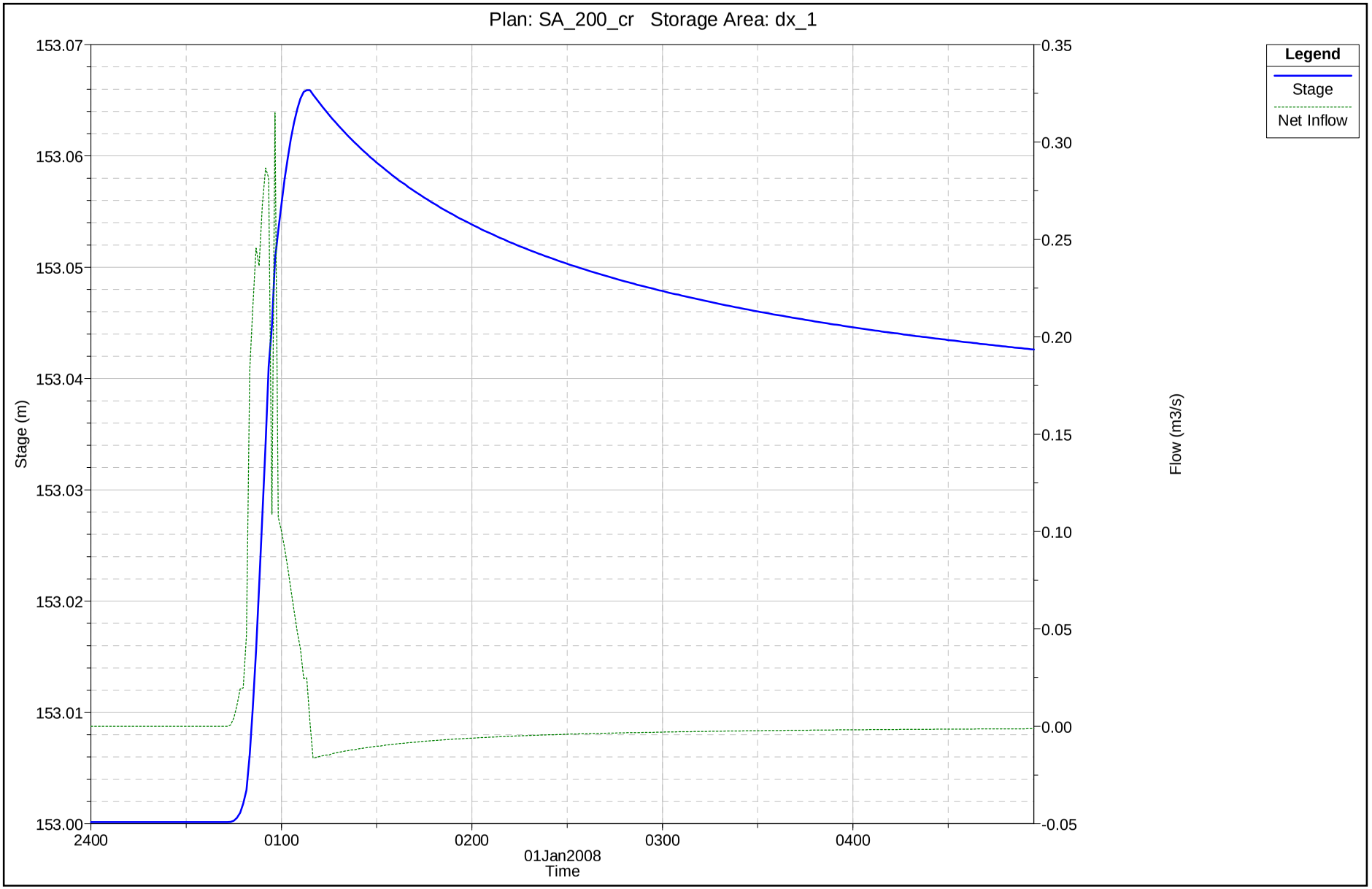

Plan: SA_100_cr Storage Area: dx_1
Legend
Stage
Net Inflow
Stage (m)
153.0012
153.0010
153.0008
153.0006
153.0004
153.0002
153.0000
Flow (m3/s)
0.010
0.008
0.006
0.004
0.002
0.000
2400
0100
0200
0300
0400
01Jan2008
Time


Plan: SA_200_cr Storage Area: sx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
149.6
149.5
149.4
149.3
149.2
149.1
149.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
-2.0
2400
0100
0200
0300
0400
01Jan2008
Time


Plan: SA_200_cr Storage Area: sx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
152.42
152.40
152.38
152.36
152.34
152.32
152.30
1.2
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
2400
0100
0200
0300
0400
01Jan2008
Time


Plan: SA_200_cr Storage Area: dx_3
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148.40
148.35
148.30
148.25
148.20
148.15
148.10
148.05
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
01Jan2008
Time


Plan: SA_200_cr Storage Area: dx_2
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
147.64
147.62
147.60
147.58
147.56
147.54
147.52
147.50
2.5
2.0
1.5
1.0
0.5
0.0
2400
0100
0200
0300
0400
01Jan2008
Time


Plan: SA_200_cr Storage Area: dx_1
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
153.07
153.06
153.05
153.04
153.03
153.02
153.01
153.00
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
2400
0100
0200
0300
0400
01Jan2008
Time



comune di montevarchi - provincia di arezzo

avvio del procedimento Del.C.C. n.55 del 15.05.2008
valutazione iniziale Del.G.C. n.171 del 17.07.2008
valutazione intermedia e rapporto ambientale preliminare Del.C.C. n.47 del 29.05.2009
relazione di sintesi finale - rapporto ambientale Del.G.C. n.251del 29.10.2009
rapporto ambientale - relazione di sintesi non tecnica Del.C.C. n..... del .....
adozione Del.C.C. n..... del .....

variante di adeguamento
alla disciplina urbanistica regionale e ai contenuti dell'art.55 co.6 della L.R.1/2005

RELAZIONE IDRAULICA - ALLEGATO 2 - VOLUME III

PIANO STRUTTURALE

dicembre 2009



comune di montevarchi - provincia di arezzo

Sindaco	*Giorgio Valentini*
Assessore	*Moreno Grassi*
Responsabile del procedimento	*Domenico Scrascia*
Garante della comunicazione	*Francesca Barucci*
Progetto	*Stefania Fanfani*
	Domenico Scrascia
Sistema informativo	*Ugo Fabbri*
Ufficio di piano	*Gabriele Banchetti*
	Stefano Borchi
Indagini geologiche ed idrauliche	*Claudia Lombardi*
	Roberto Nevini
	Michele Sani

RELAZIONE IDRAULICA - ALLEGATO 2 - VOLUME III

PIANO STRUTTURALE

dicembre 2009

verifiche idrauliche stato attuale

volume I

borro del Quercio
borro dello Spedaluzzo
borro del Giglio

volume II

borro della Sabina
borro del Caspri
borro della Dogana
borro dell'Ornaccio

volume III

borro del Valdilago
torrente Caposelvi (loc. Mercatale)
torrente Caposelvi
torrente Ambra

verifiche idrauliche stato attuale - volume III

- borro del Valdilago
- torrente Caposelvi (loc. Mercatale)
- torrente Caposelvi
- torrente Ambra

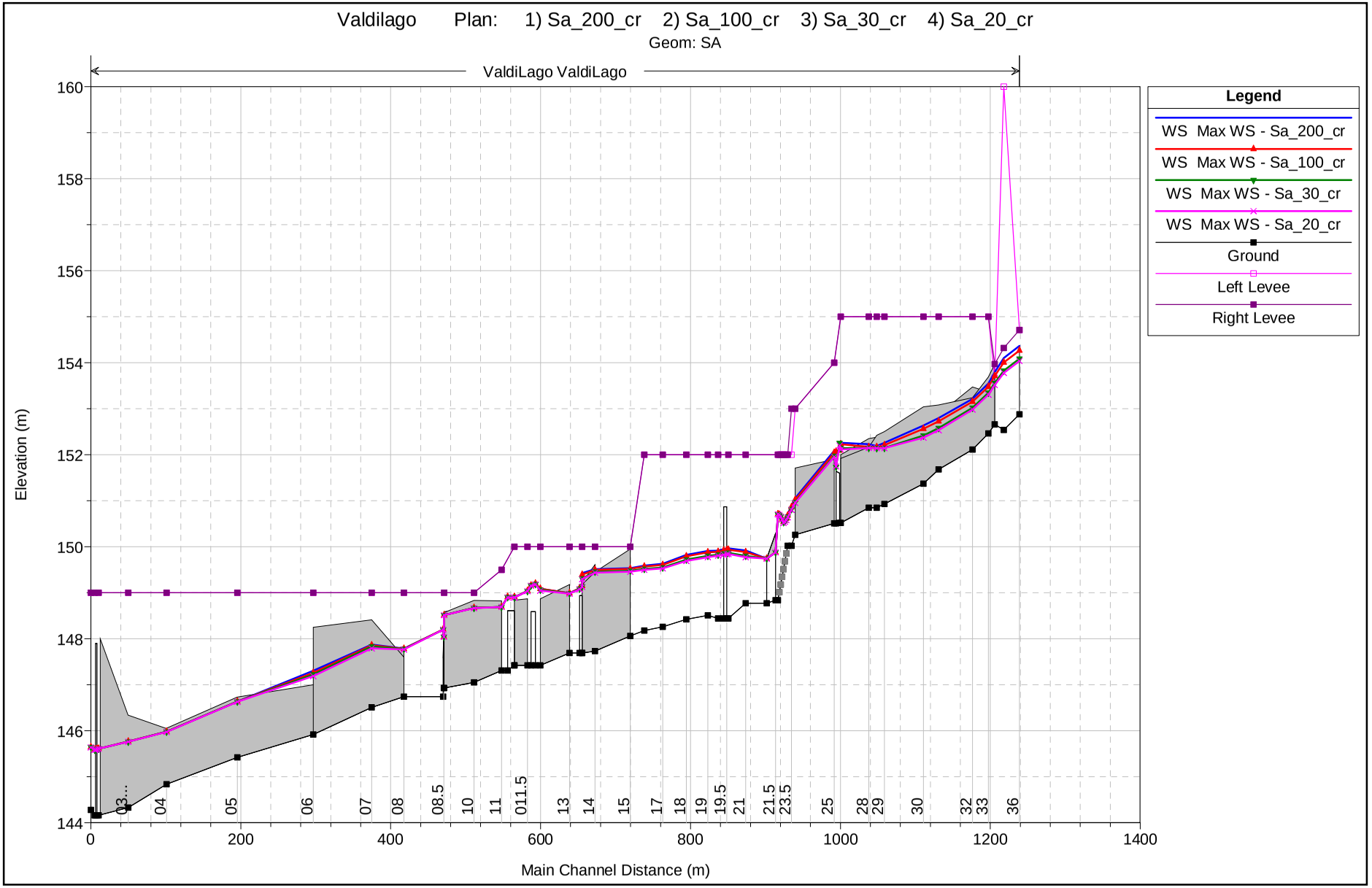
borro di Valdilago

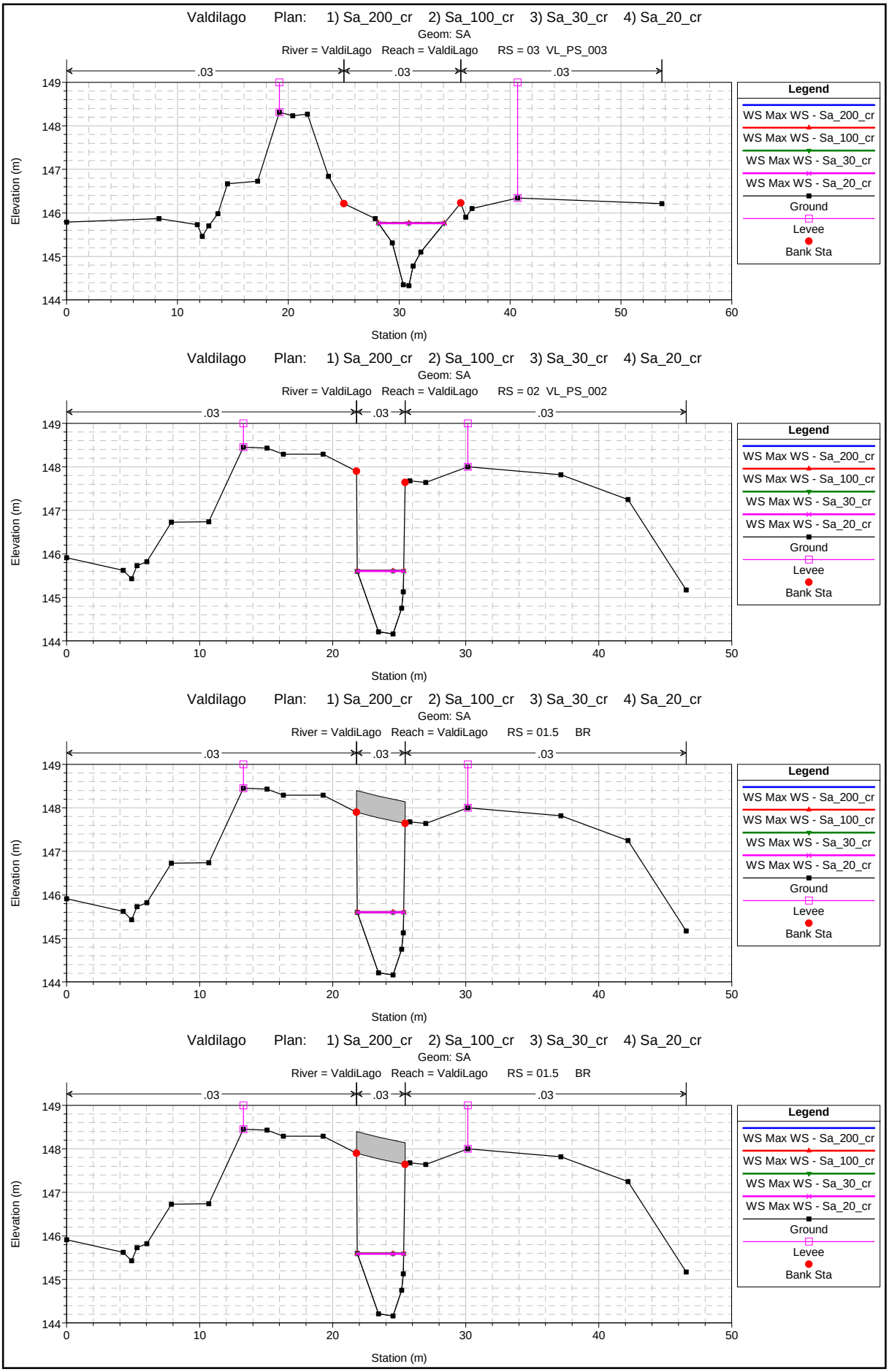
verifiche con Tpioggia critico per il Borro di Valdilago

- moto vario
  Tr=200, 100, 30 e 20 anni
  profilo
  livelli idrici nelle sezioni di verifica
  tabella di output del software Hec-ras 4.0
  livelli e portate in ingresso alle aree di accumulo

verifiche con Tpioggia critico per il fiume Arno

- moto permanente
  Tr=200, 100, 30 e 20 anni
  profilo
  livelli idrici nelle sezioni di verifica
  tabella di output del software Hec-ras 4.0

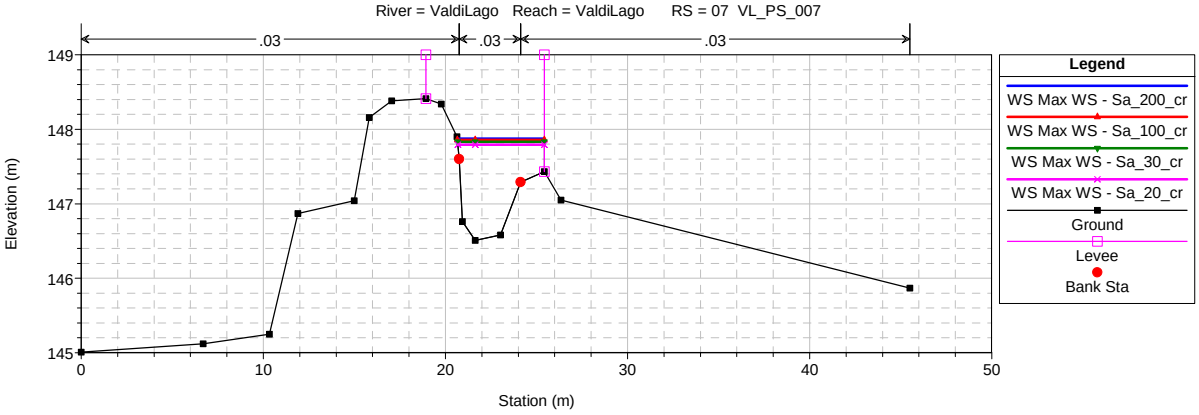

Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
ValdiLago ValdiLago
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
160
158
156
154
152
150
148
146
144
0
200
400
600
800
1000
1200
1400
03...
04
05
06
07
08
08.5
10
11
011.5
13
14
15
17
18
19
19.5
21
21.5
23.5
25
28
29
30
32
33
36


Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 03 VL_PS_003
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 02 VL_PS_002
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 01.5 BR
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 01.5 BR
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta

Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

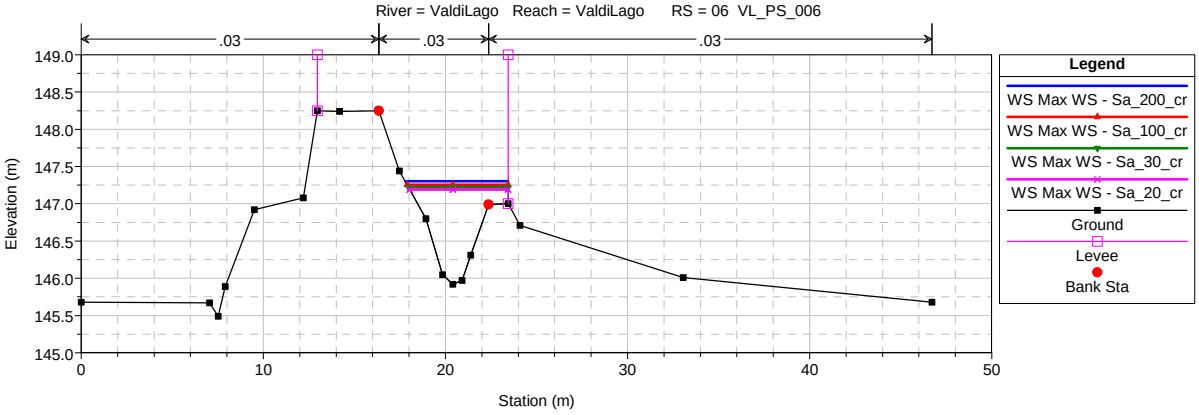
River = ValdiLago Reach = ValdiLago RS = 07 VL_PS_007



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

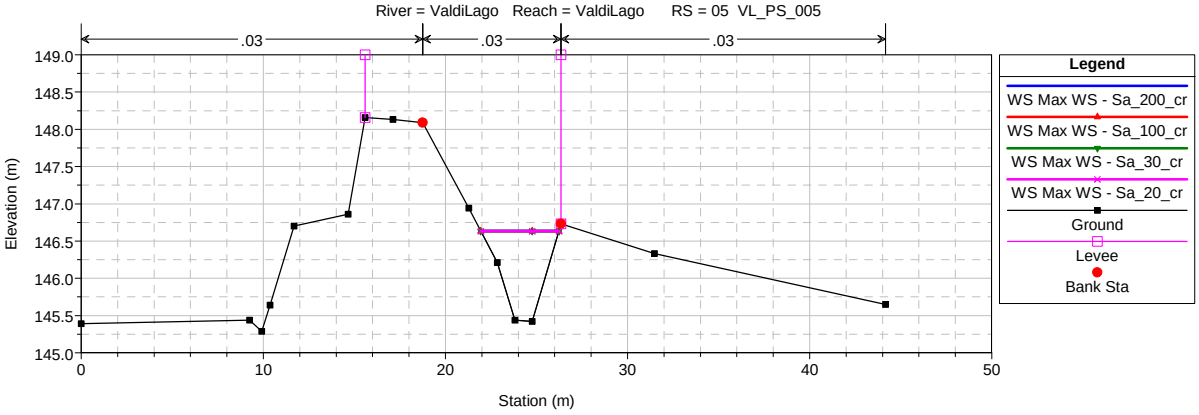
River = ValdiLago Reach = ValdiLago RS = 06 VL_PS_006



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

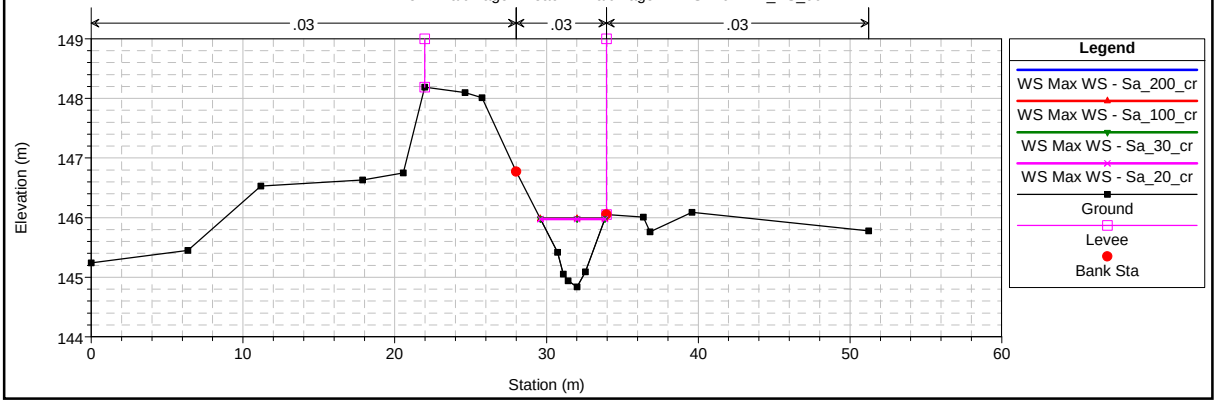
River = ValdiLago Reach = ValdiLago RS = 05 VL_PS_005



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

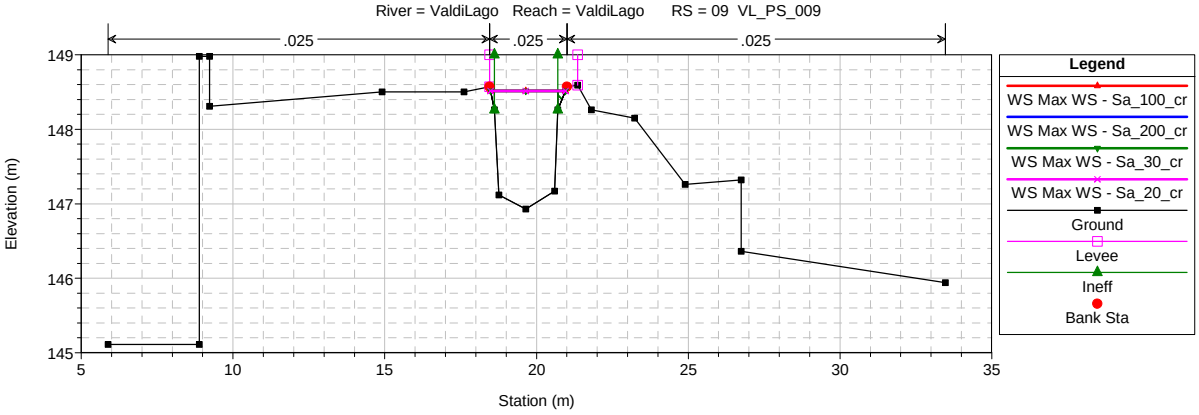
River = ValdiLago Reach = ValdiLago RS = 04 VL_PS_004



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

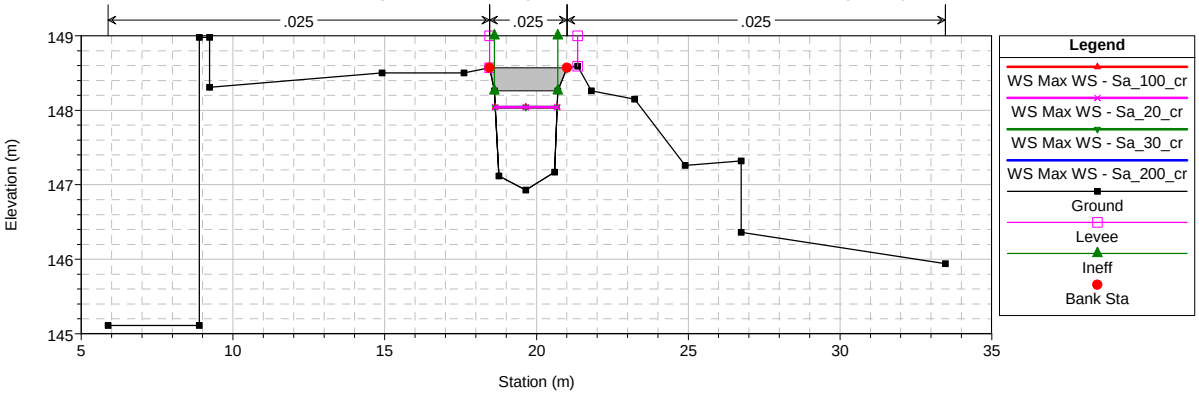
River = ValdiLago Reach = ValdiLago RS = 09 VL_PS_009



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

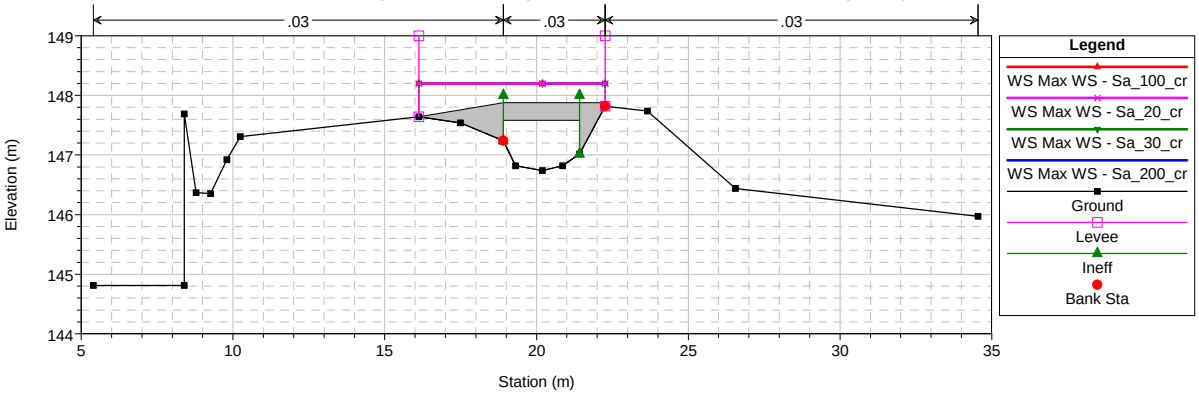
River = ValdiLago Reach = ValdiLago RS = 08.5 BR Tratto tombato Valdilago di Sopra



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

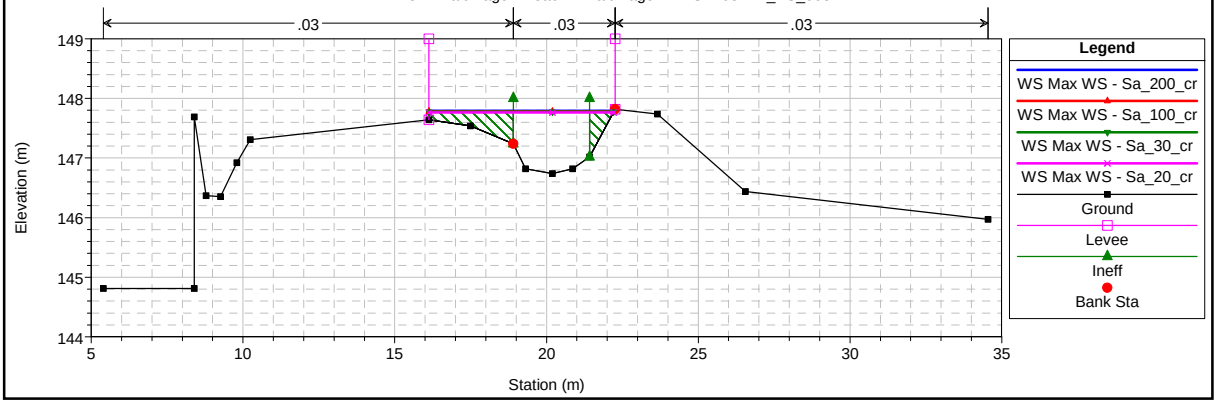
River = ValdiLago Reach = ValdiLago RS = 08.5 BR Tratto tombato Valdilago di Sopra



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

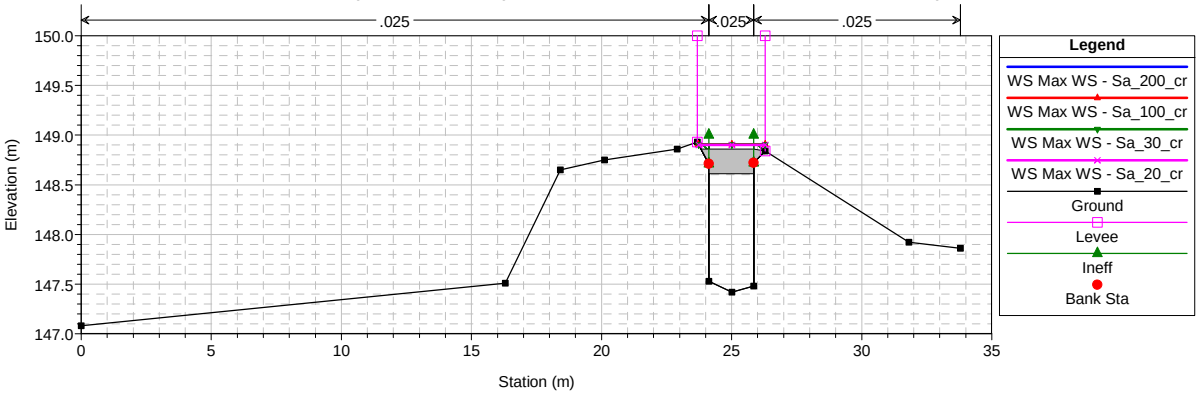
River = ValdiLago Reach = ValdiLago RS = 08 VL_PS_008



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

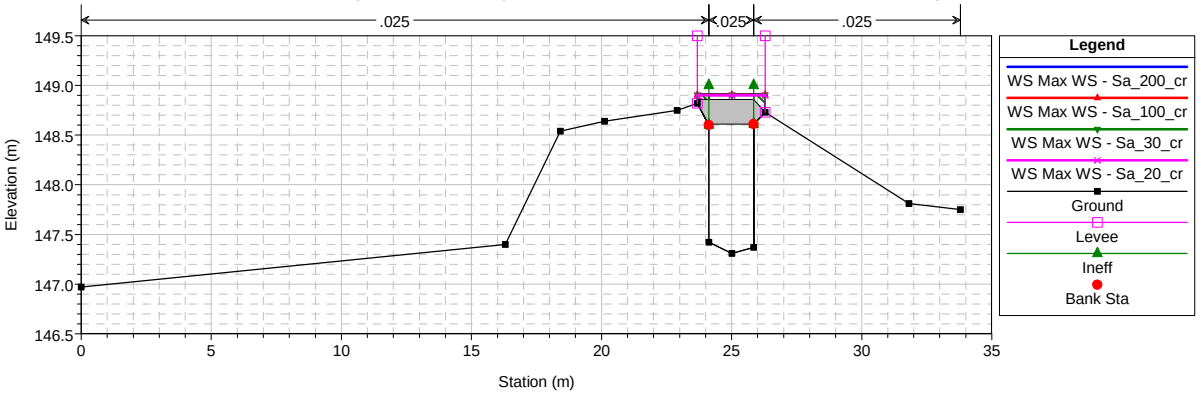
River = ValdiLago Reach = ValdiLago RS = 11.2 BR tratto tombato a valle del Canale Battagli



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

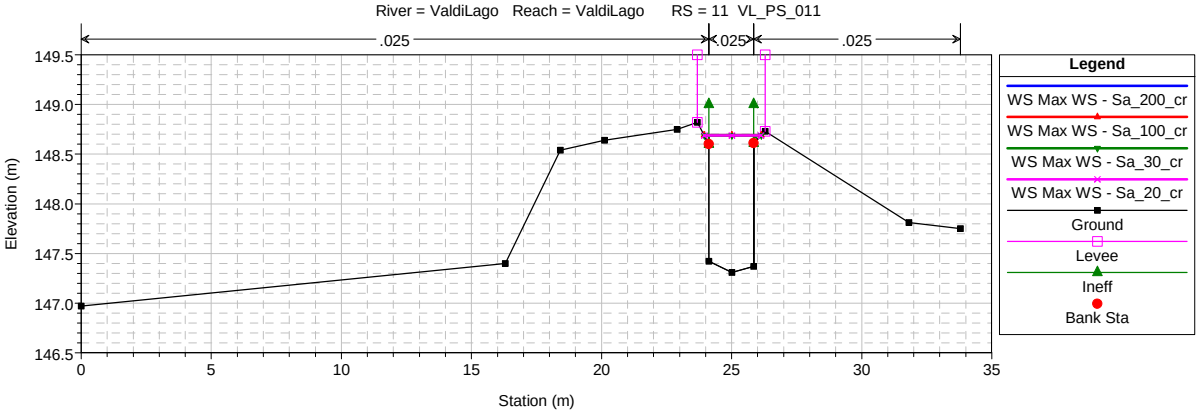
River = ValdiLago Reach = ValdiLago RS = 11.2 BR tratto tombato a valle del Canale Battagli



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

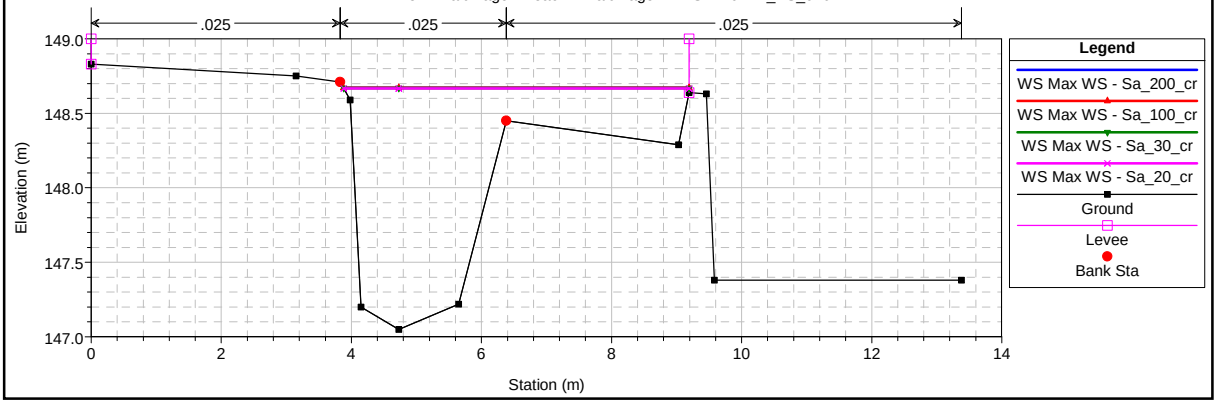
River = ValdiLago Reach = ValdiLago RS = 11 VL_PS_011

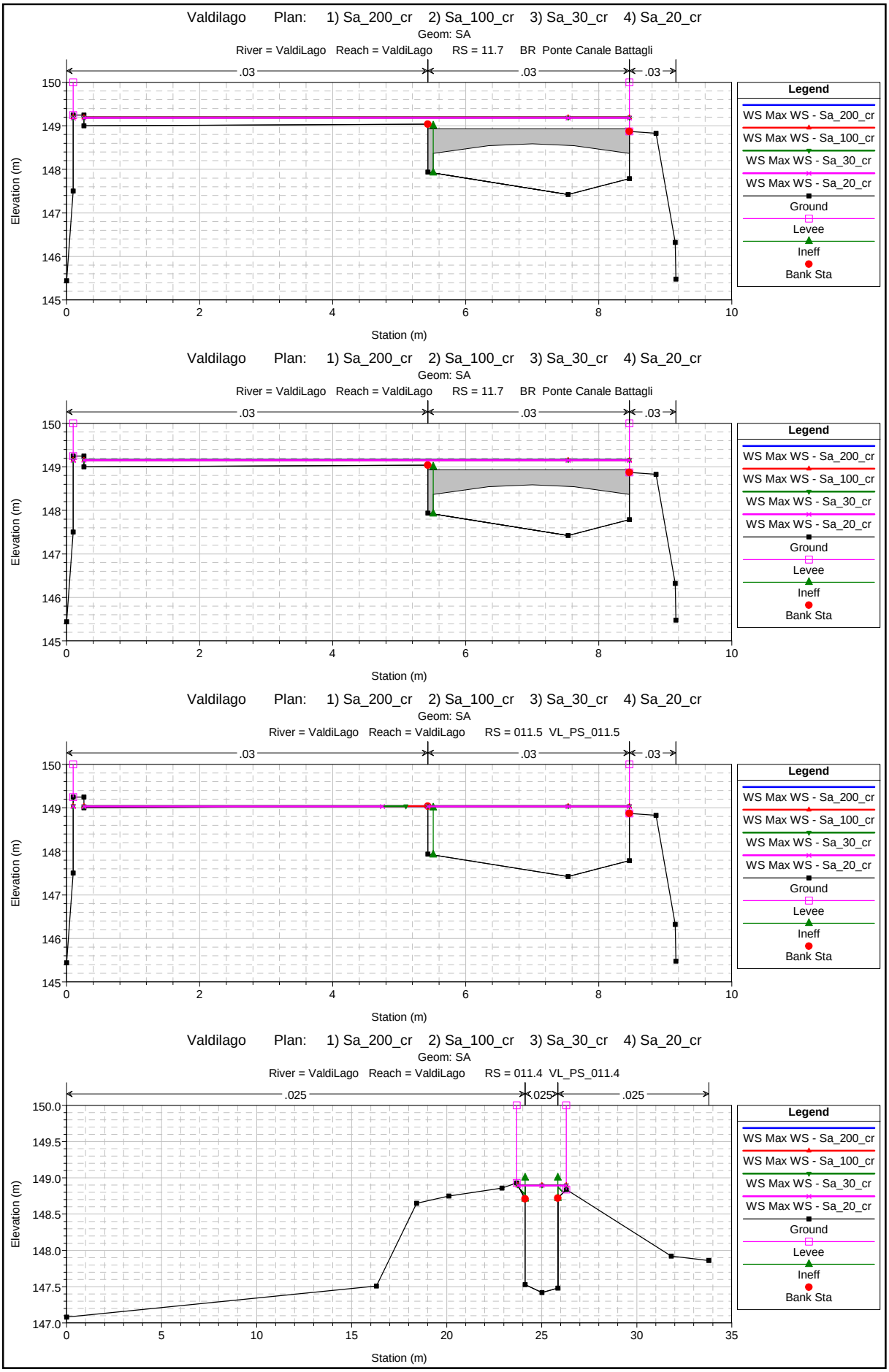


Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

River = ValdiLago Reach = ValdiLago RS = 10 VL_PS_010

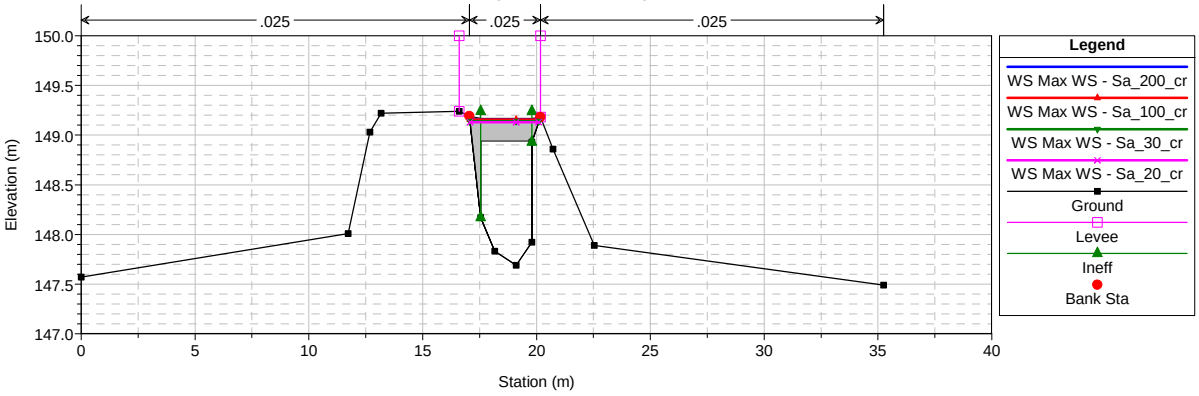



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 11.7 BR Ponte Canale Battagli
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 11.7 BR Ponte Canale Battagli
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 011.5 VL_PS_011.5
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 011.4 VL_PS_011.4
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Ineff
Bank Sta

Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

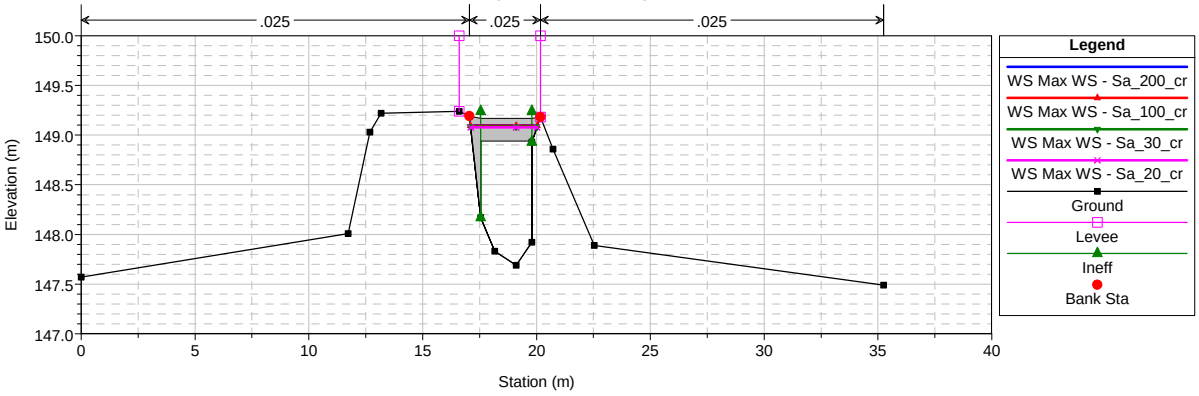
River = ValdiLago Reach = ValdiLago RS = 13.5 BR



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

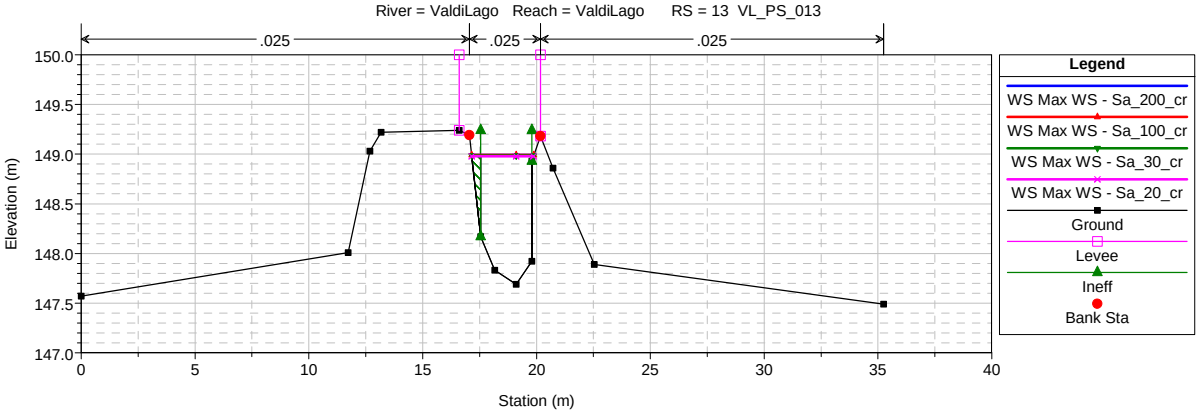
River = ValdiLago Reach = ValdiLago RS = 13.5 BR



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

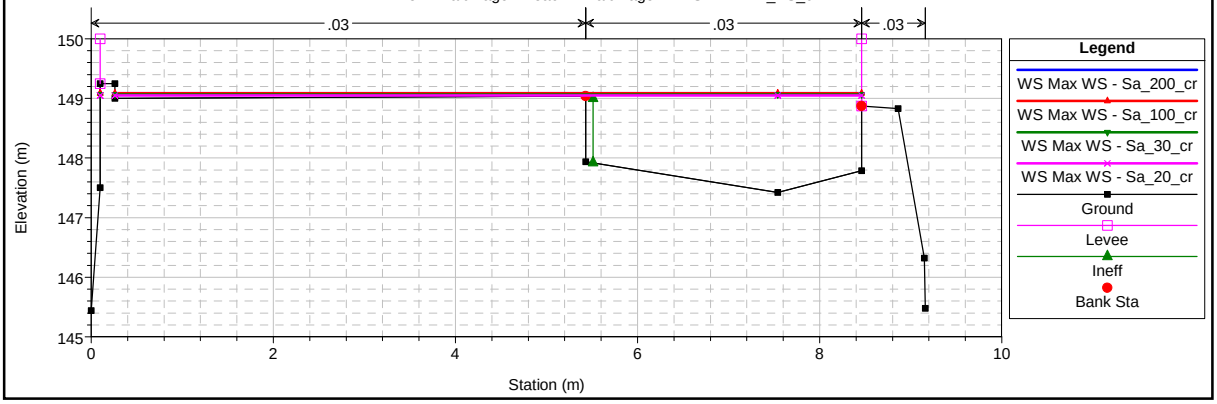
River = ValdiLago Reach = ValdiLago RS = 13 VL_PS_013

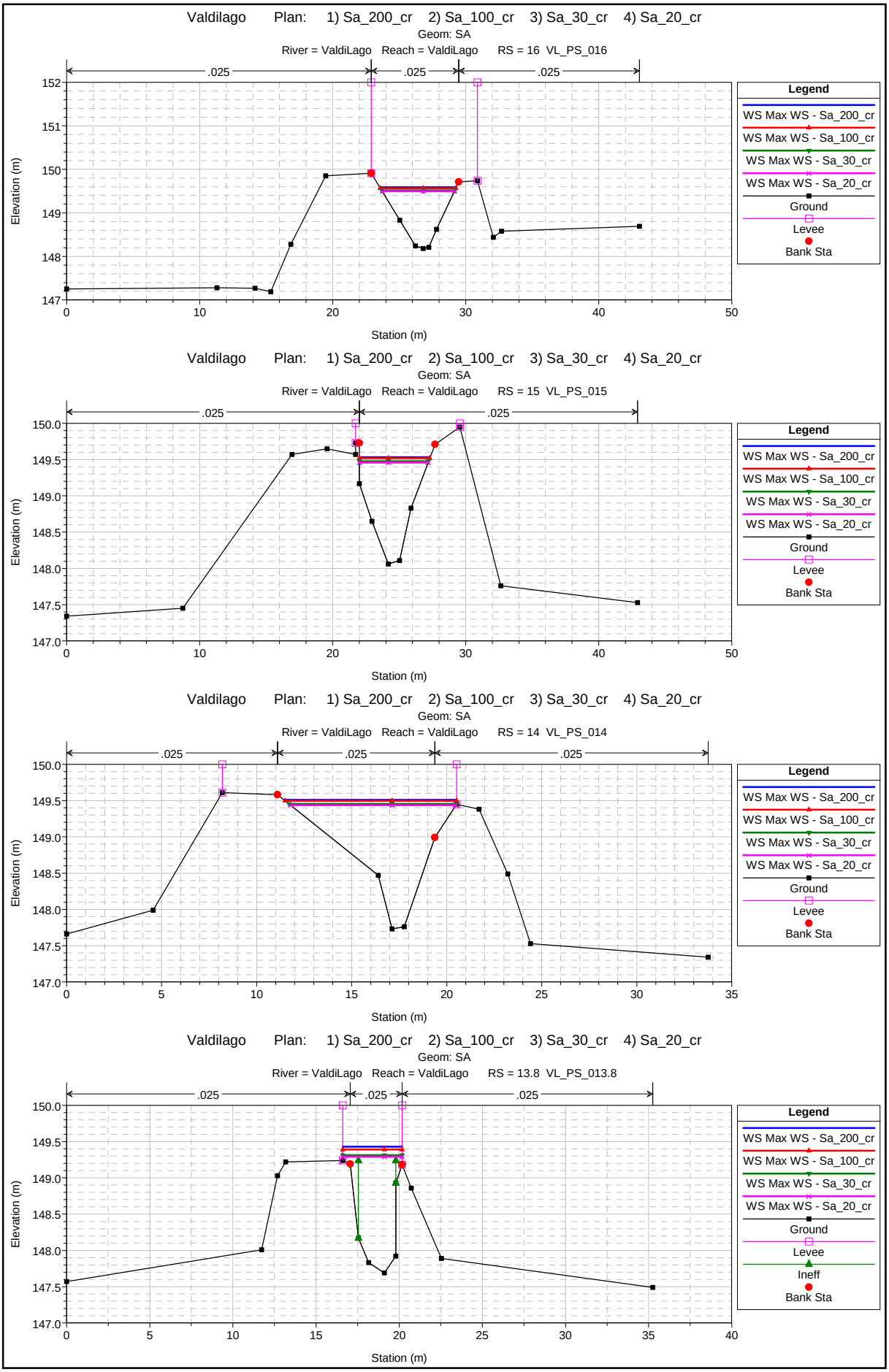


Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

River = ValdiLago Reach = ValdiLago RS = 12 VL_PS_012

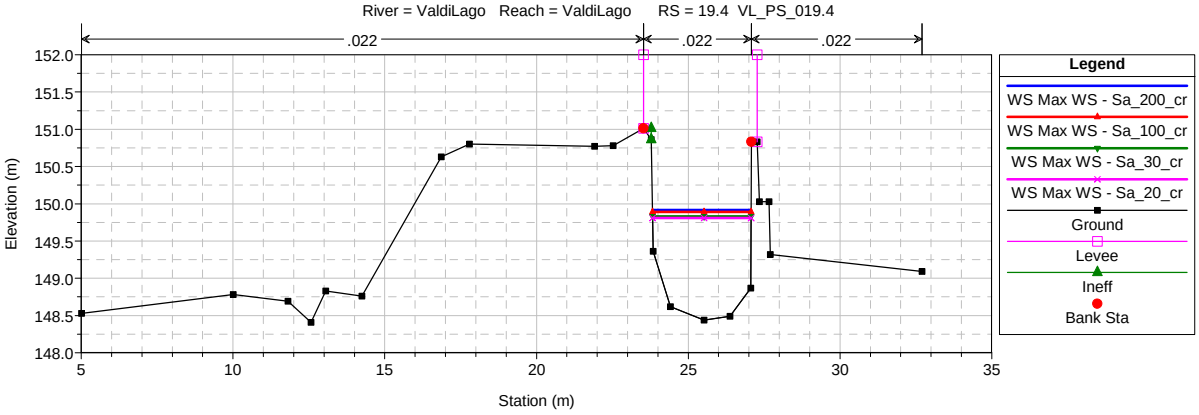



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 16 VL_PS_016
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 15 VL_PS_015
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 14 VL_PS_014
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 13.8 VL_PS_013.8
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Ineff
Bank Sta

Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

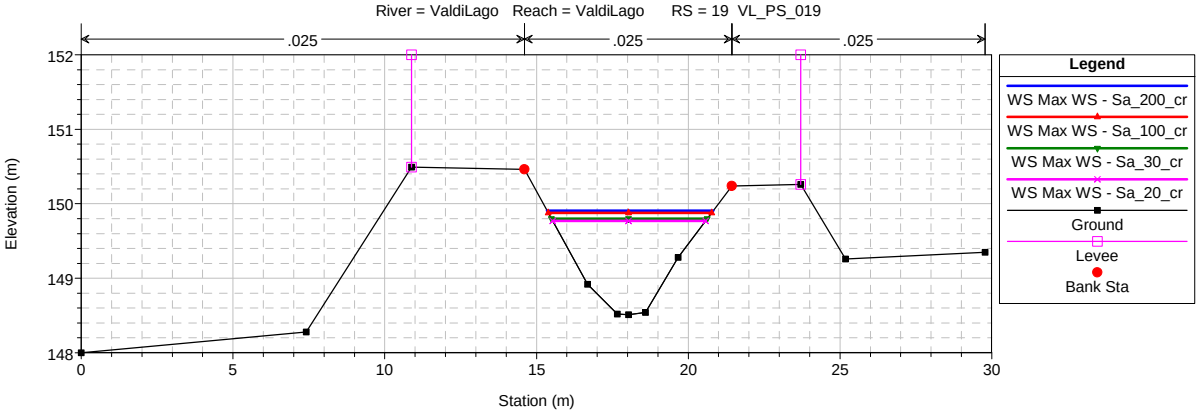
River = ValdiLago Reach = ValdiLago RS = 19.4 VL_PS_019.4



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

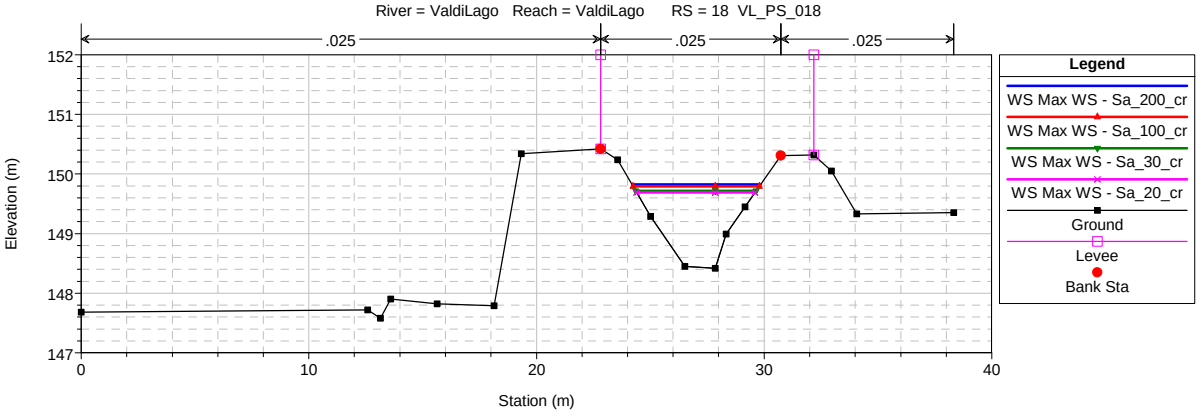
River = ValdiLago Reach = ValdiLago RS = 19 VL_PS_019



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

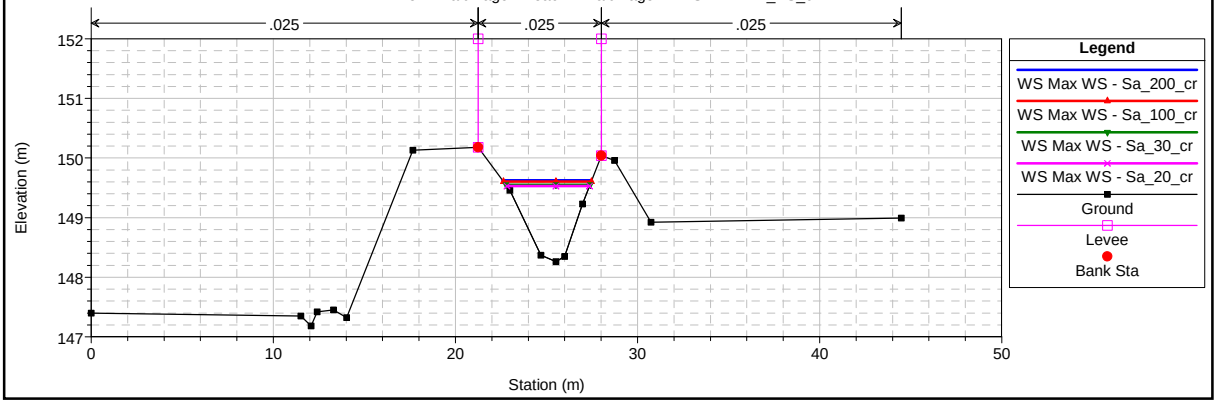
River = ValdiLago Reach = ValdiLago RS = 18 VL_PS_018



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

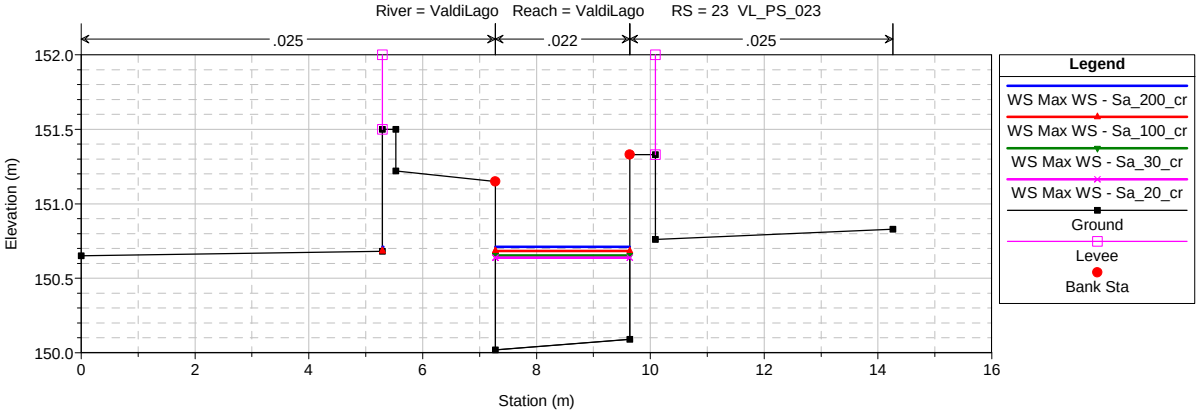
River = ValdiLago Reach = ValdiLago RS = 17 VL_PS_017



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

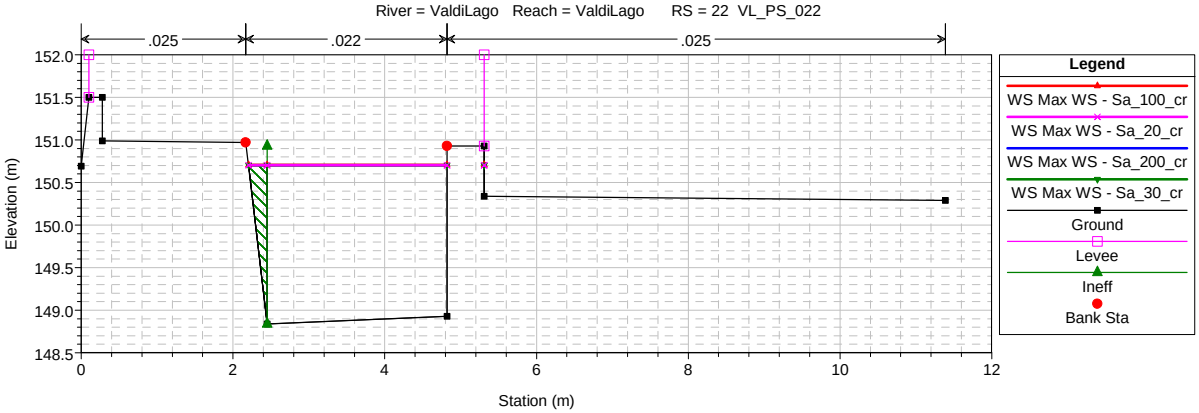
River = ValdiLago Reach = ValdiLago RS = 23 VL_PS_023



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

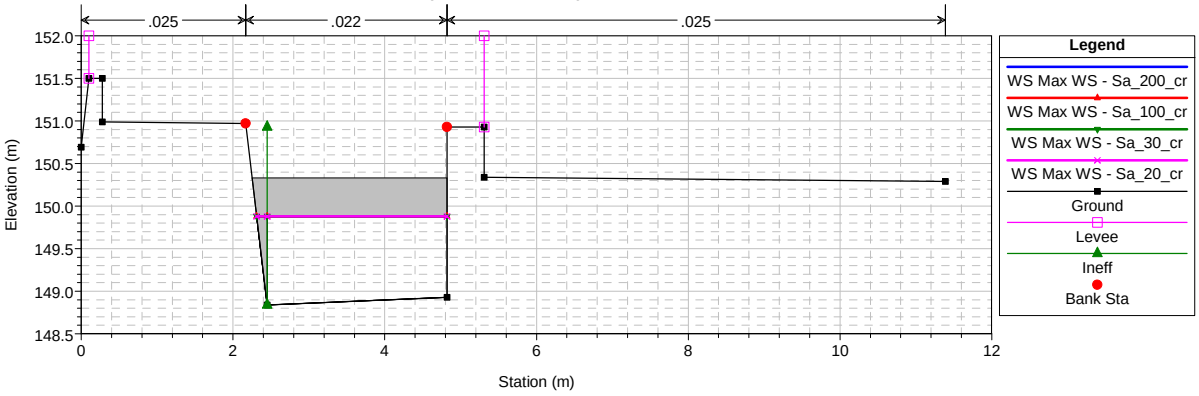
River = ValdiLago Reach = ValdiLago RS = 22 VL_PS_022



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

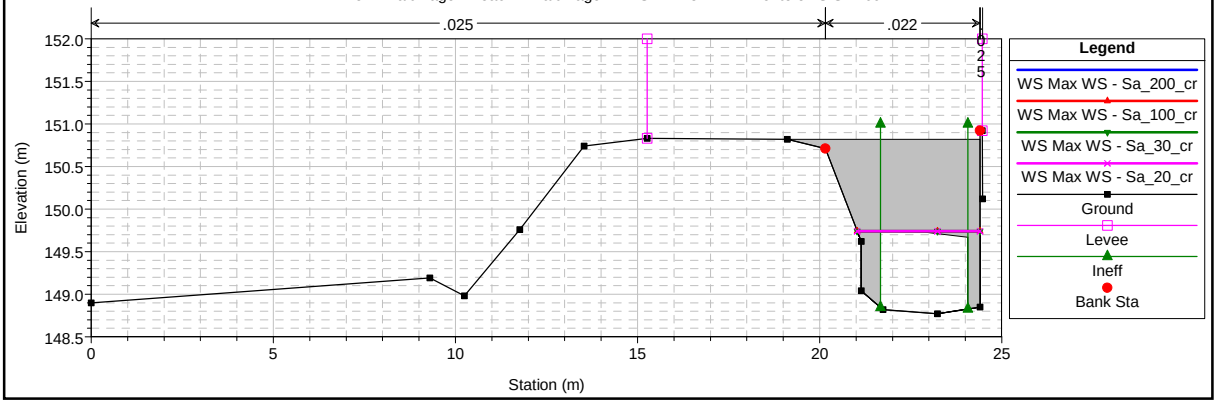
River = ValdiLago Reach = ValdiLago RS = 21.5 BR Ponte ex S.S. n°69

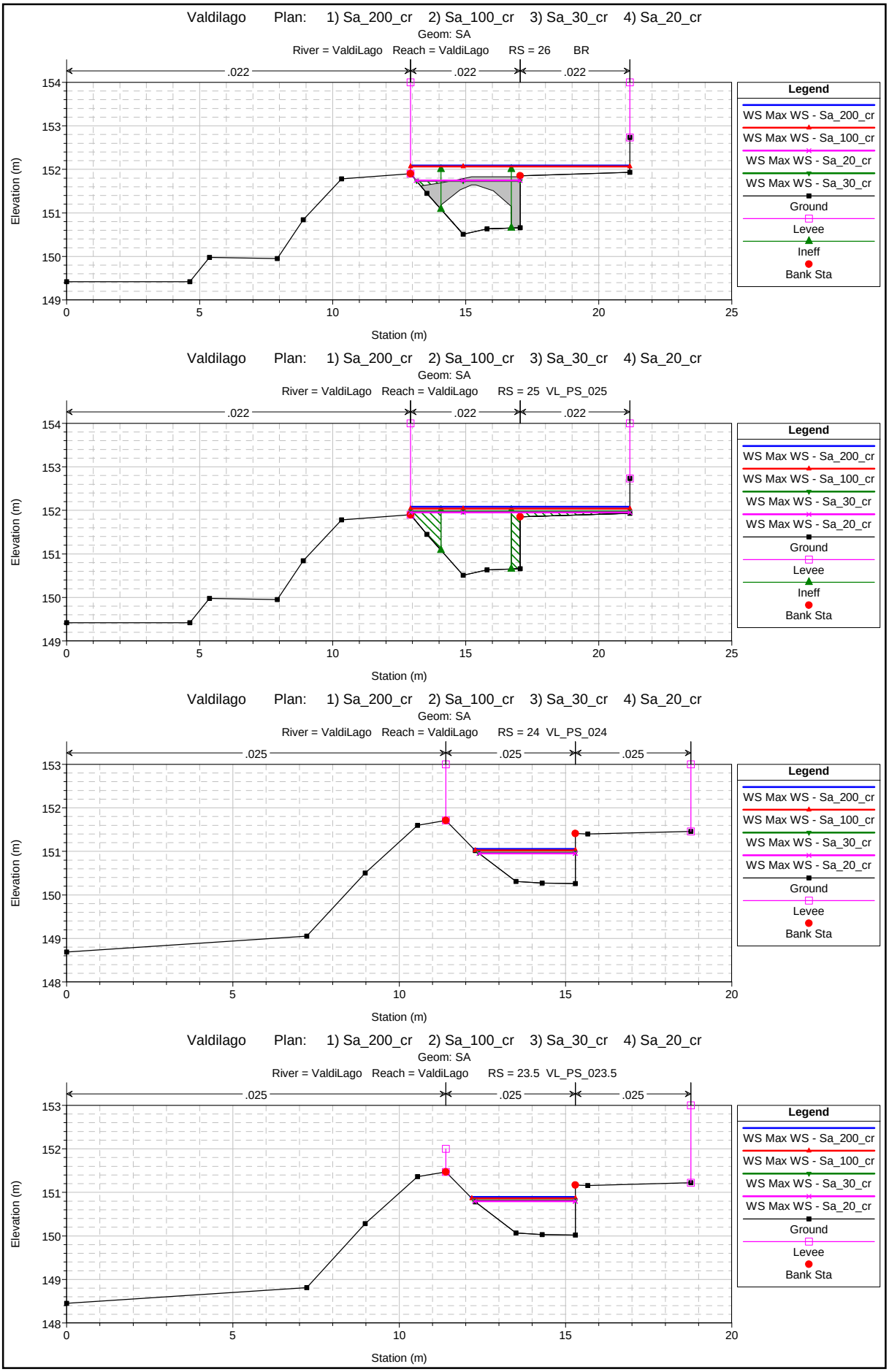


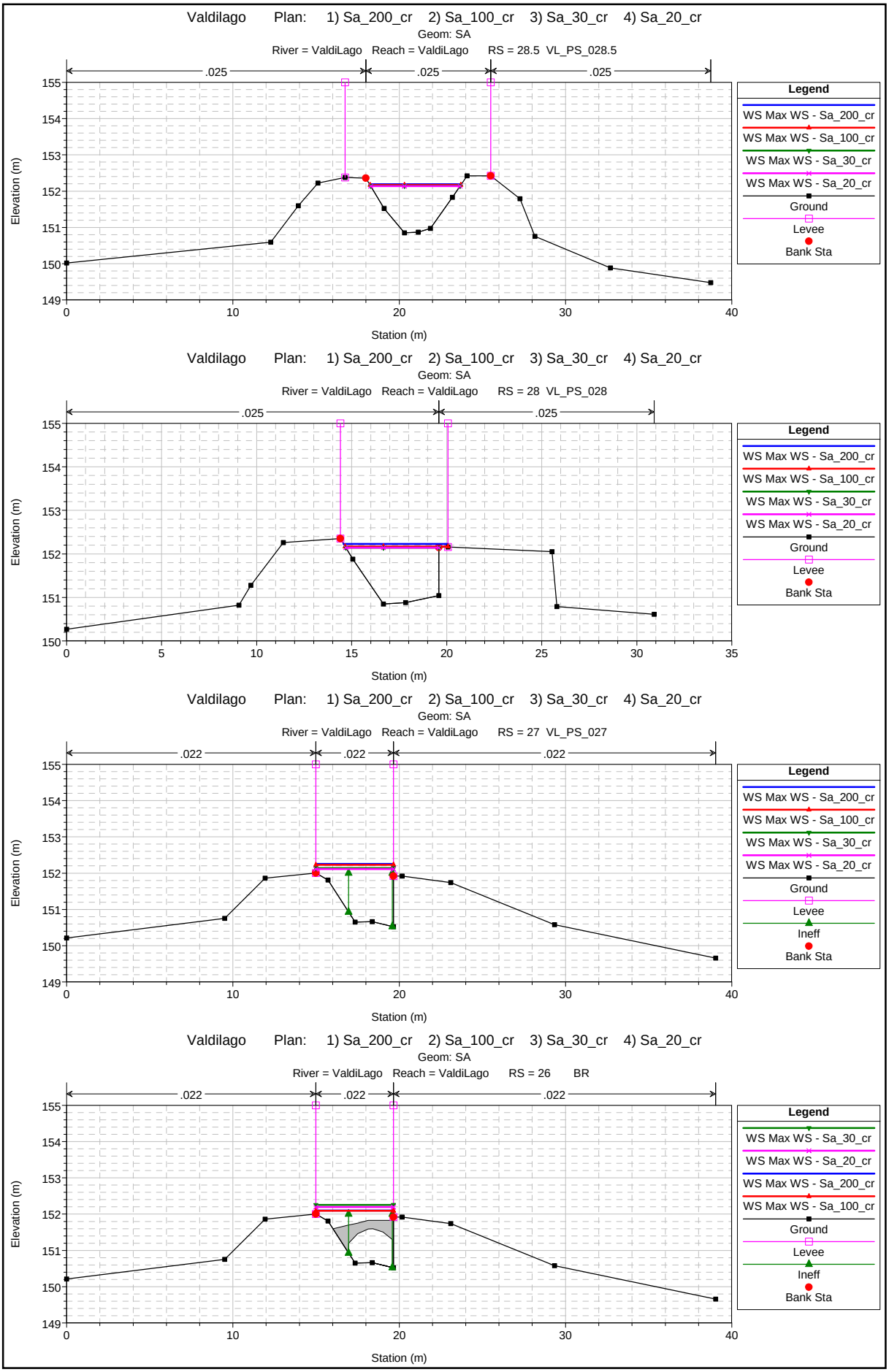
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

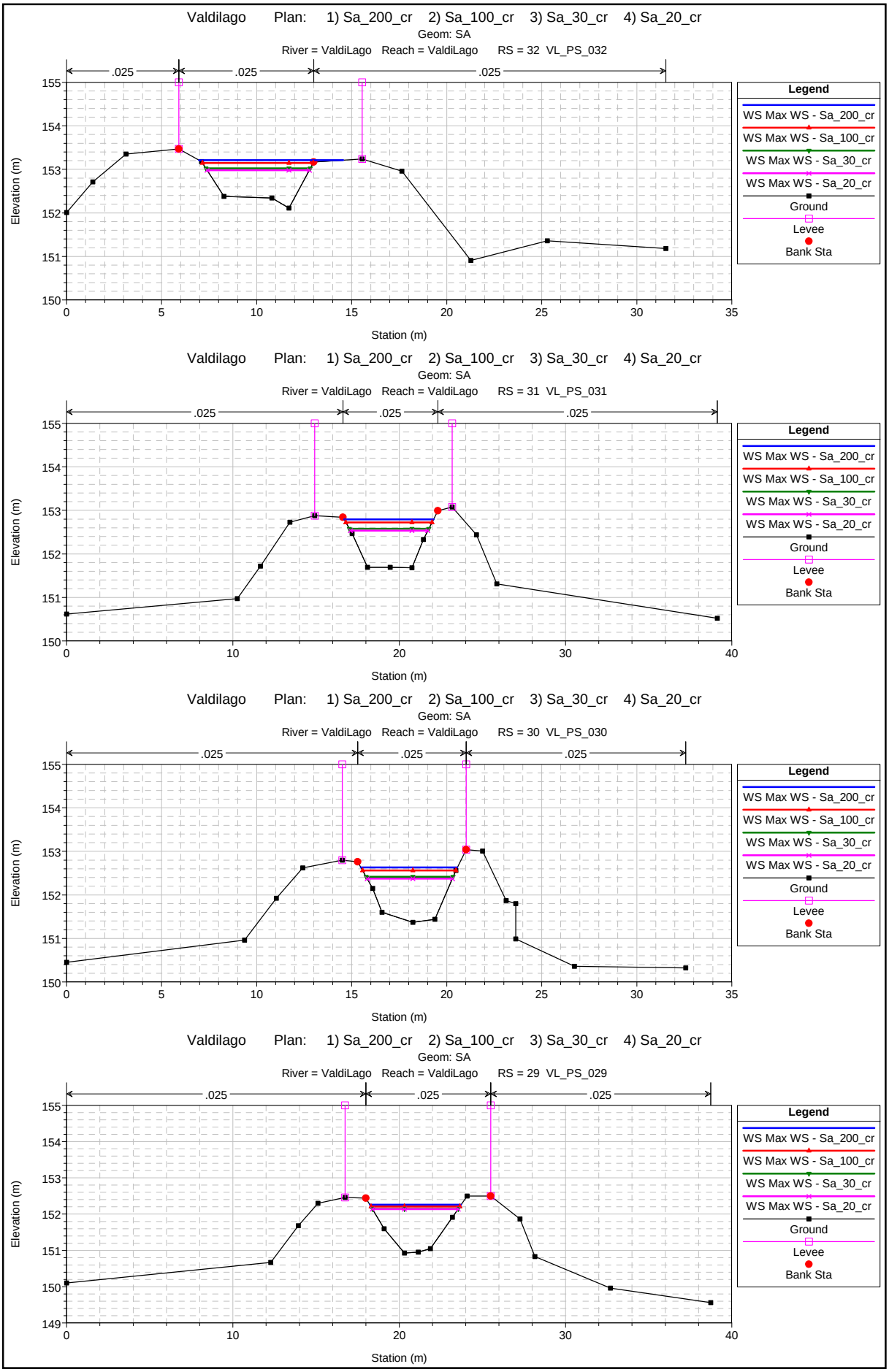
Geom: SA

River = ValdiLago Reach = ValdiLago RS = 21.5 BR Ponte ex S.S. n°69




Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 26 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_20_cr
WS Max WS - Sa_30_cr
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 25 VL_PS_025
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 24 VL_PS_024
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 23.5 VL_PS_023.5
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta

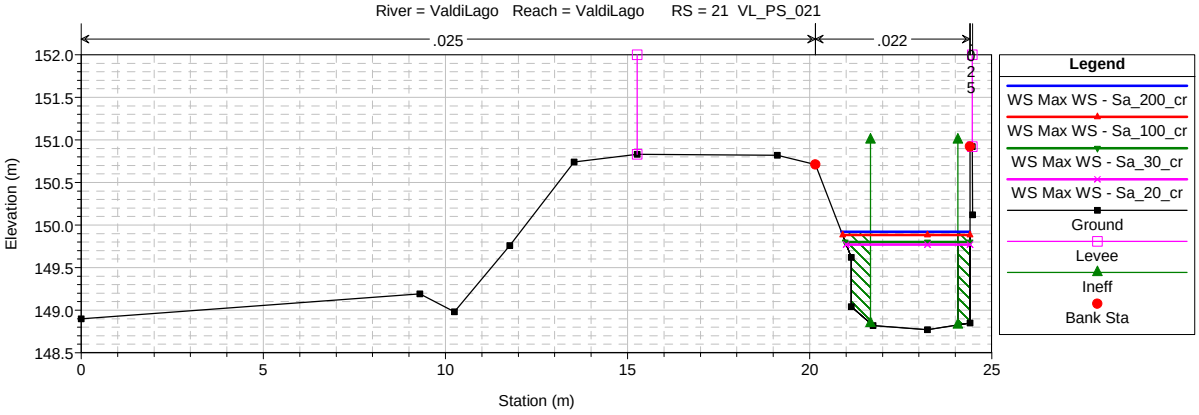

Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 28.5 VL_PS_028.5
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 28 VL_PS_028
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 27 VL_PS_027
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 26 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
Ground
Levee
Ineff
Bank Sta


Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 32 VL_PS_032
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 31 VL_PS_031
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 30 VL_PS_030
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta
Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 29 VL_PS_029
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta

Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

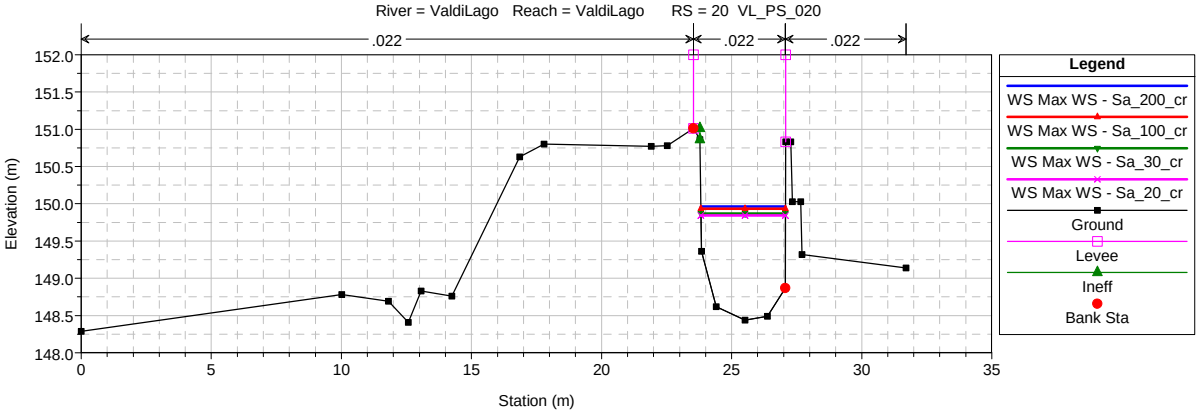
River = ValdiLago Reach = ValdiLago RS = 21 VL_PS_021



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

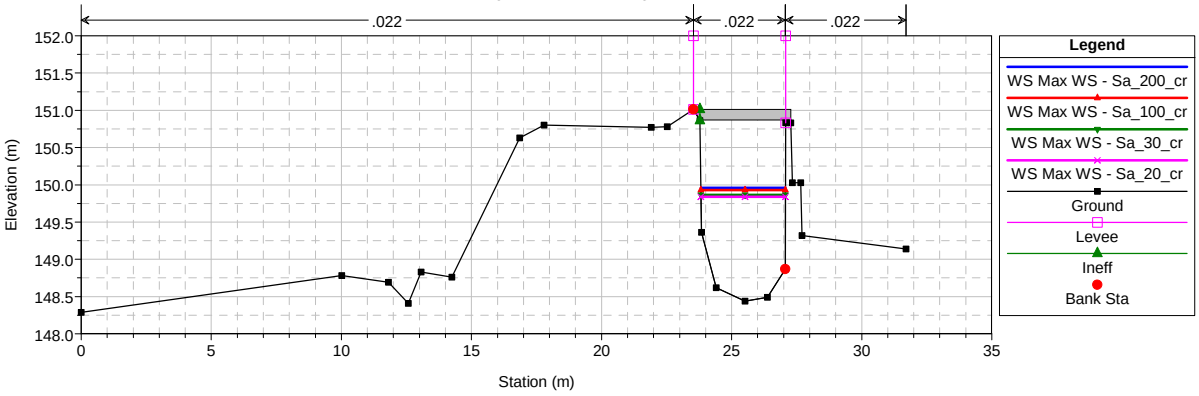
River = ValdiLago Reach = ValdiLago RS = 20 VL_PS_020



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

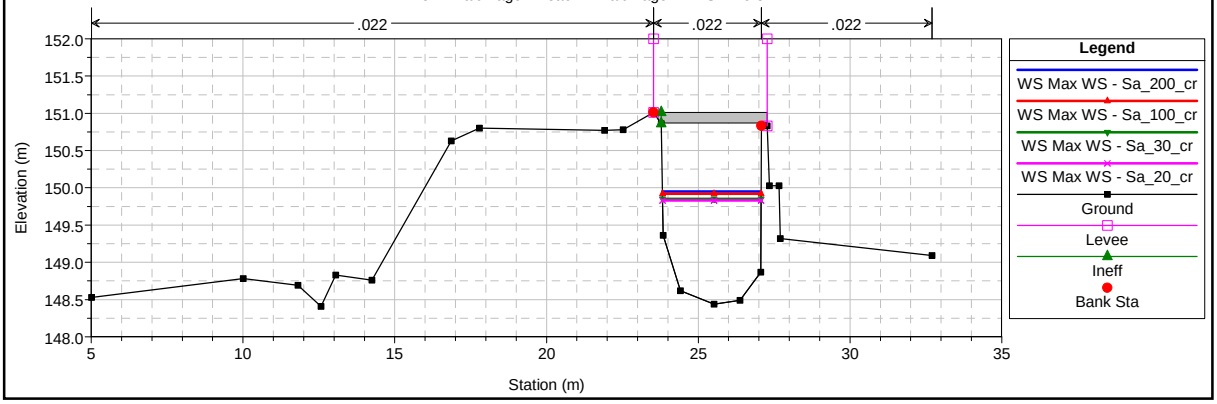
River = ValdiLago Reach = ValdiLago RS = 19.5 BR



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

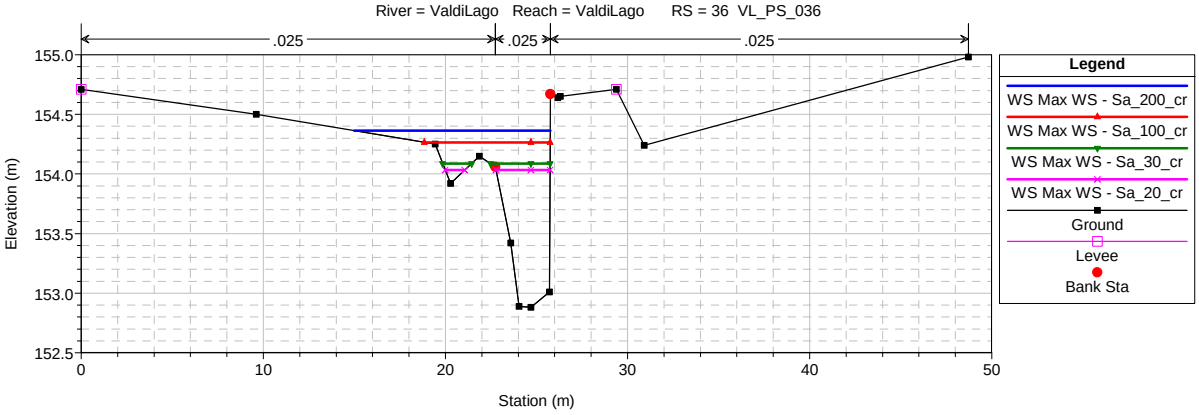
River = ValdiLago Reach = ValdiLago RS = 19.5 BR



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

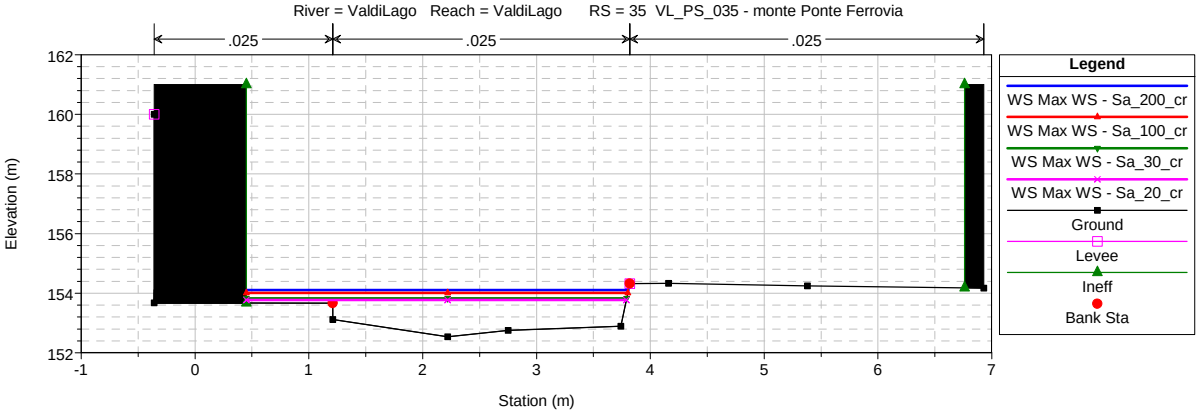
River = ValdiLago Reach = ValdiLago RS = 36 VL_PS_036



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

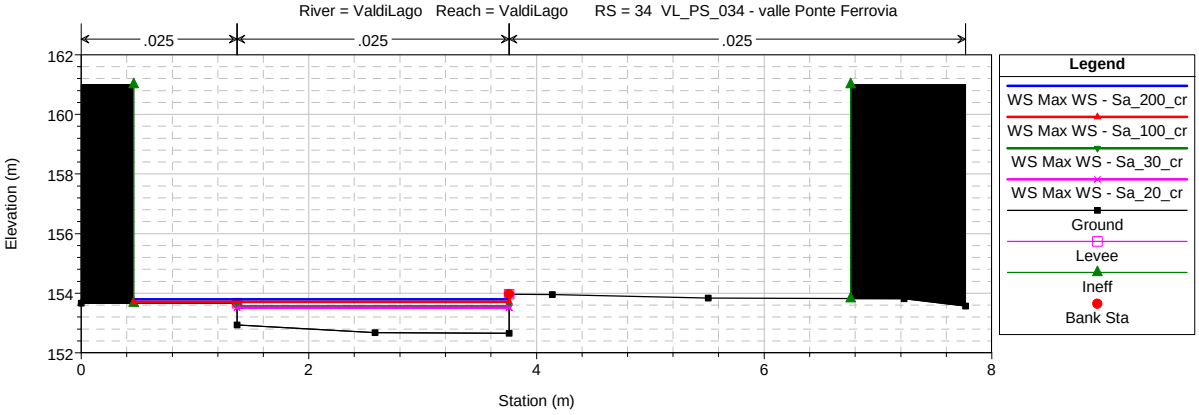
River = ValdiLago Reach = ValdiLago RS = 35 VL_PS_035 - monte Ponte Ferrovia



Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

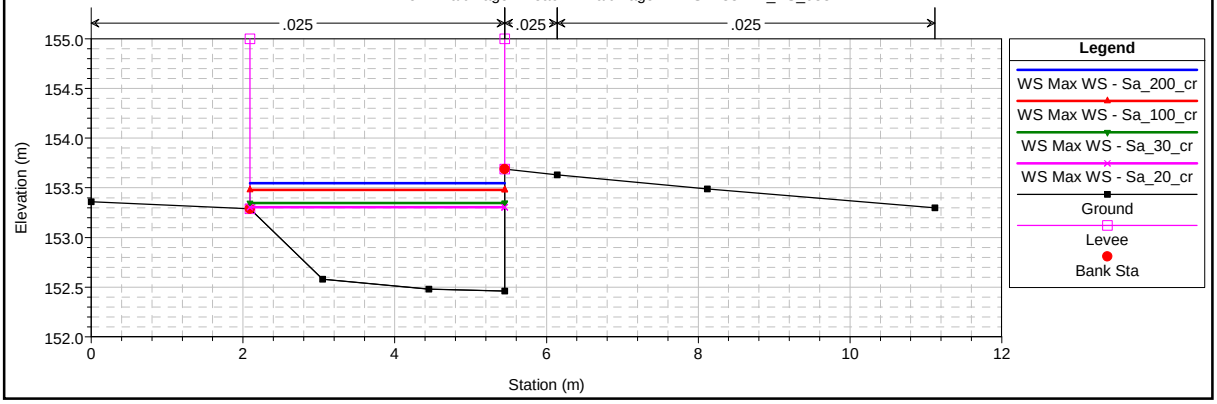
River = ValdiLago Reach = ValdiLago RS = 34 VL_PS_034 - valle Ponte Ferrovia

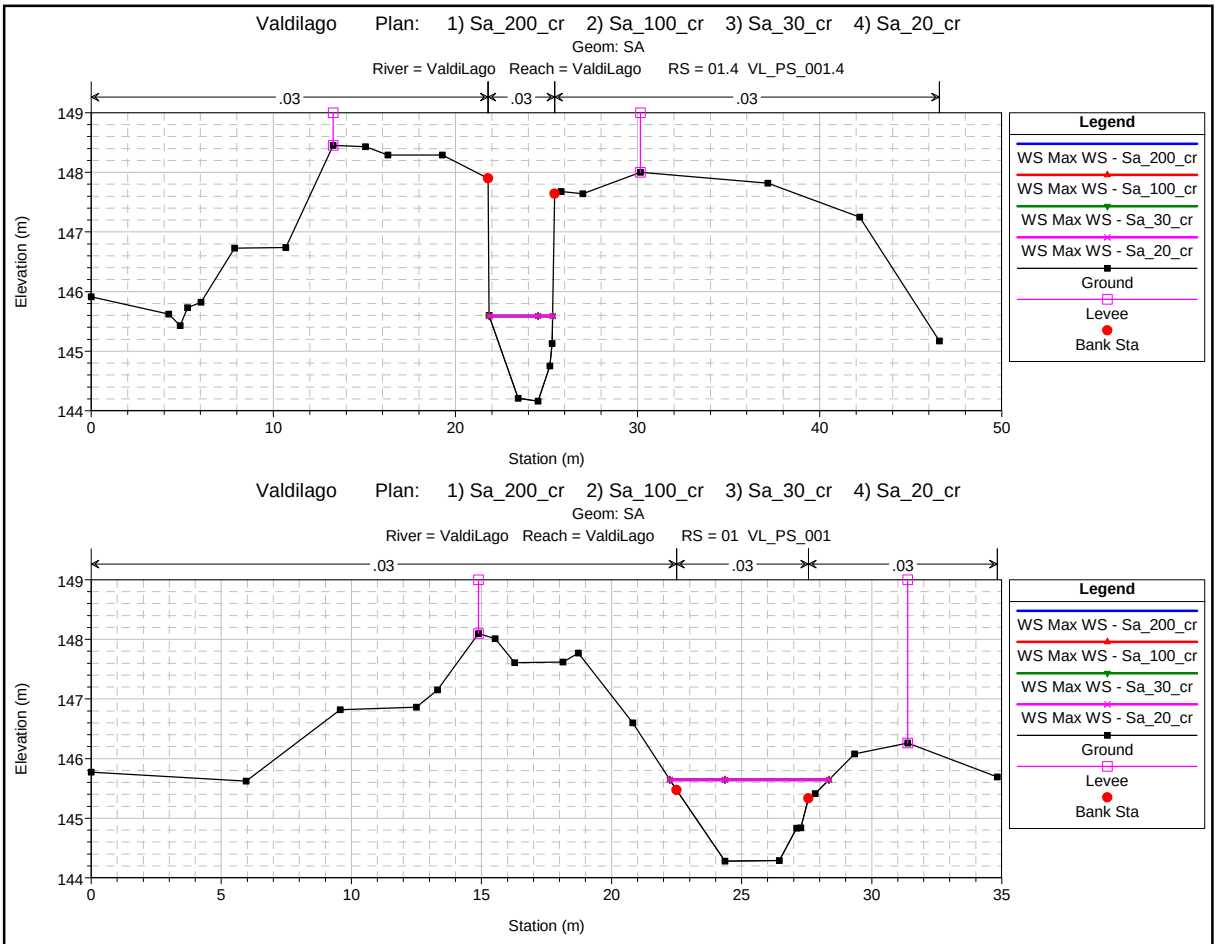


Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr

Geom: SA

River = ValdiLago Reach = ValdiLago RS = 33 VL_PS_033




Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 01.4 VL_PS_001.4
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta

Valdilago Plan: 1) Sa_200_cr 2) Sa_100_cr 3) Sa_30_cr 4) Sa_20_cr
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 01 VL_PS_001
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Max WS - Sa_200_cr
WS Max WS - Sa_100_cr
WS Max WS - Sa_30_cr
WS Max WS - Sa_20_cr
Ground
Levee
Bank Sta

HEC-RAS River: ValdiLago Reach: ValdiLago Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	36	Max WS	Sa_200_cr	13.77	152.88	154.36	154.59	154.92	0.011420	3.48	4.75	10.77	1.03
ValdiLago	36	Max WS	Sa_100_cr	11.79	152.88	154.27	154.50	154.81	0.011858	3.39	3.88	6.91	1.05
ValdiLago	36	Max WS	Sa_30_cr	8.81	152.88	154.09	154.25	154.61	0.013039	3.24	2.82	4.86	1.09
ValdiLago	36	Max WS	Sa_20_cr	8.03	152.88	154.03	154.21	154.54	0.013179	3.17	2.58	4.03	1.09
ValdiLago	35	Max WS	Sa_200_cr	13.76	152.54	154.10	154.22	154.85	0.014003	3.90	3.69	3.36	1.09
ValdiLago	35	Max WS	Sa_100_cr	11.78	152.54	154.00	154.10	154.66	0.013184	3.65	3.36	3.35	1.06
ValdiLago	35	Max WS	Sa_30_cr	8.81	152.54	153.83	153.90	154.36	0.012399	3.27	2.77	3.34	1.03
ValdiLago	35	Max WS	Sa_20_cr	8.03	152.54	153.77	153.84	154.28	0.012212	3.16	2.60	3.34	1.02
ValdiLago	34	Max WS	Sa_200_cr	13.76	152.66	153.79	154.26	155.26	0.037189	5.40	2.62	3.30	1.68
ValdiLago	34	Max WS	Sa_100_cr	11.78	152.66	153.71	154.17	155.01	0.035422	5.07	2.36	3.30	1.64
ValdiLago	34	Max WS	Sa_30_cr	8.81	152.66	153.56	153.91	154.59	0.032047	4.49	1.96	2.39	1.58
ValdiLago	34	Max WS	Sa_20_cr	8.02	152.66	153.51	153.85	154.47	0.031206	4.34	1.85	2.39	1.57
ValdiLago	33.9			Lat Struct									
ValdiLago	33.8			Lat Struct									
ValdiLago	33	Max WS	Sa_200_cr	13.21	152.46	153.55	153.79	154.48	0.021373	4.28	3.09	3.36	1.42
ValdiLago	33	Max WS	Sa_100_cr	11.58	152.46	153.48	153.69	154.31	0.020519	4.05	2.86	3.36	1.40
ValdiLago	33	Max WS	Sa_30_cr	8.81	152.46	153.35	153.52	154.03	0.019380	3.65	2.41	3.36	1.38
ValdiLago	33	Max WS	Sa_20_cr	8.02	152.46	153.30	153.46	153.94	0.019104	3.53	2.27	3.36	1.37
ValdiLago	32	Max WS	Sa_200_cr	12.88	152.11	153.21	153.33	153.67	0.010134	3.00	4.33	7.59	1.13
ValdiLago	32	Max WS	Sa_100_cr	11.47	152.11	153.15	153.26	153.59	0.010398	2.92	3.92	5.83	1.14
ValdiLago	32	Max WS	Sa_30_cr	8.80	152.11	153.02	153.08	153.41	0.011008	2.75	3.20	5.49	1.15
ValdiLago	32	Max WS	Sa_20_cr	8.02	152.11	152.98	153.04	153.35	0.011241	2.69	2.98	5.38	1.15
ValdiLago	31	Max WS	Sa_200_cr	12.87	151.68	152.79	152.82	153.23	0.008488	2.93	4.39	5.38	1.04
ValdiLago	31	Max WS	Sa_100_cr	11.46	151.68	152.72	152.75	153.14	0.008582	2.85	4.02	5.19	1.04
ValdiLago	31	Max WS	Sa_30_cr	8.81	151.68	152.58	152.59	152.94	0.008757	2.68	3.29	4.78	1.03
ValdiLago	31	Max WS	Sa_20_cr	8.02	151.68	152.53	152.54	152.88	0.008763	2.61	3.07	4.65	1.02
ValdiLago	30	Max WS	Sa_200_cr	12.87	151.37	152.63	152.61	153.05	0.007455	2.85	4.51	5.08	0.97
ValdiLago	30	Max WS	Sa_100_cr	11.46	151.37	152.56	152.53	152.95	0.007383	2.76	4.16	4.91	0.96
ValdiLago	30	Max WS	Sa_30_cr	8.81	151.37	152.42		152.75	0.007174	2.54	3.47	4.58	0.93
ValdiLago	30	Max WS	Sa_20_cr	8.02	151.37	152.37		152.68	0.007039	2.46	3.26	4.48	0.92

HEC-RAS River: ValdiLago Reach: ValdiLago Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	29	Max WS	Sa_200_cr	12.87	150.93	152.26	152.23	152.65	0.007127	2.77	4.65	5.49	0.96
ValdiLago	29	Max WS	Sa_100_cr	11.46	150.93	152.21		152.56	0.006728	2.63	4.36	5.34	0.93
ValdiLago	29	Max WS	Sa_30_cr	8.72	150.93	152.15		152.38	0.004788	2.16	4.04	5.17	0.78
ValdiLago	29	Max WS	Sa_20_cr	7.94	150.93	152.14		152.34	0.004061	1.98	4.01	5.15	0.72
ValdiLago	28.5	Max WS	Sa_200_cr	12.87	150.85	152.19	152.16	152.57	0.006933	2.74	4.69	5.51	0.95
ValdiLago	28.5	Max WS	Sa_100_cr	8.48	150.85	152.17		152.34	0.003228	1.85	4.57	5.45	0.65
ValdiLago	28.5	Max WS	Sa_30_cr	7.94	150.85	152.14		152.31	0.003081	1.79	4.43	5.38	0.63
ValdiLago	28.5	Max WS	Sa_20_cr	7.89	150.85	152.14		152.30	0.003055	1.78	4.43	5.38	0.63
ValdiLago	28	Max WS	Sa_200_cr	10.45	150.85	152.23		152.43	0.003232	1.97	5.33	5.49	0.61
ValdiLago	28	Max WS	Sa_100_cr	8.43	150.85	152.17		152.31	0.002516	1.69	4.99	5.40	0.54
ValdiLago	28	Max WS	Sa_30_cr	7.91	150.85	152.15		152.28	0.002361	1.62	4.88	4.90	0.52
ValdiLago	28	Max WS	Sa_20_cr	7.86	150.85	152.14		152.28	0.002332	1.61	4.88	4.90	0.52
ValdiLago	27	Max WS	Sa_200_cr	8.81	150.52	152.26	151.69	152.38	0.001528	1.54	5.71	4.67	0.45
ValdiLago	27	Max WS	Sa_100_cr	8.22	150.52	152.23	151.65	152.34	0.001429	1.48	5.57	4.67	0.43
ValdiLago	27	Max WS	Sa_30_cr	6.98	150.52	152.14	151.54	152.23	0.001282	1.35	5.17	4.67	0.41
ValdiLago	27	Max WS	Sa_20_cr	6.62	150.52	152.11	151.51	152.20	0.001240	1.31	5.04	4.67	0.40
ValdiLago	26			Bridge									
ValdiLago	25	Max WS	Sa_200_cr	6.68	150.51	152.08		152.16	0.001024	1.28	5.72	8.24	0.37
ValdiLago	25	Max WS	Sa_100_cr	8.22	150.51	152.04		152.18	0.001797	1.66	5.36	8.24	0.50
ValdiLago	25	Max WS	Sa_30_cr	7.06	150.51	151.97		152.19	0.001554	2.05	3.45	8.24	0.57
ValdiLago	25	Max WS	Sa_20_cr	6.68	150.51	151.95		152.15	0.001460	1.96	3.40	8.24	0.55
ValdiLago	24.8			Lat Struct									
ValdiLago	24	Max WS	Sa_200_cr	8.09	150.26	151.05	151.35	152.01	0.032796	4.33	1.87	3.06	1.76
ValdiLago	24	Max WS	Sa_100_cr	8.01	150.26	151.02	151.35	152.07	0.037557	4.53	1.77	3.01	1.88
ValdiLago	24	Max WS	Sa_30_cr	7.02	150.26	150.97	151.27	151.93	0.037015	4.34	1.62	2.92	1.86
ValdiLago	24	Max WS	Sa_20_cr	6.68	150.26	150.95	151.24	151.88	0.036368	4.26	1.57	2.90	1.85
ValdiLago	23.5	Max WS	Sa_200_cr	8.02	150.02	150.89	151.11	151.63	0.022797	3.79	2.12	3.16	1.48
ValdiLago	23.5	Max WS	Sa_100_cr	8.01	150.02	150.86	151.11	151.66	0.025911	3.96	2.02	3.12	1.57
ValdiLago	23.5	Max WS	Sa_30_cr	7.02	150.02	150.82	151.03	151.53	0.024483	3.74	1.88	3.06	1.52

HEC-RAS River: ValdiLago Reach: ValdiLago Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	23.5	Max WS	Sa_20_cr	6.67	150.02	150.80	151.00	151.48	0.023802	3.65	1.83	3.04	1.50
ValdiLago	23	Max WS	Sa_200_cr	7.94	150.02	150.71	151.10	152.05	0.040360	5.13	1.55	2.36	2.02
ValdiLago	23	Max WS	Sa_100_cr	8.01	150.02	150.68	151.11	152.17	0.046591	5.41	1.48	2.36	2.18
ValdiLago	23	Max WS	Sa_30_cr	7.02	150.02	150.65	151.02	151.91	0.041127	4.98	1.41	2.36	2.05
ValdiLago	23	Max WS	Sa_20_cr	6.66	150.02	150.64	150.99	151.83	0.039632	4.83	1.38	2.36	2.02
ValdiLago	22	Max WS	Sa_200_cr	6.26	148.84	150.70	149.78	150.81	0.000967	1.45	4.31	2.62	0.34
ValdiLago	22	Max WS	Sa_100_cr	6.25	148.84	150.71	149.78	150.81	0.000963	1.45	4.32	2.62	0.34
ValdiLago	22	Max WS	Sa_30_cr	6.49	148.84	150.70	149.79	150.82	0.001041	1.51	4.31	2.62	0.36
ValdiLago	22	Max WS	Sa_20_cr	6.24	148.84	150.70	149.78	150.81	0.000962	1.45	4.31	2.62	0.34
ValdiLago	21.5			Bridge									
ValdiLago	21	Max WS	Sa_200_cr	8.48	148.77	149.92	149.88	150.42	0.004115	3.14	2.70	3.53	0.95
ValdiLago	21	Max WS	Sa_100_cr	8.01	148.77	149.88	149.84	150.36	0.004109	3.07	2.61	3.50	0.94
ValdiLago	21	Max WS	Sa_30_cr	7.01	148.77	149.80		150.23	0.004120	2.92	2.41	3.42	0.93
ValdiLago	21	Max WS	Sa_20_cr	6.69	148.77	149.77		150.19	0.004112	2.86	2.34	3.40	0.92
ValdiLago	20	Max WS	Sa_200_cr	8.49	148.44	149.96	149.52	150.16	0.001868	1.97	4.32	3.26	0.54
ValdiLago	20	Max WS	Sa_100_cr	8.02	148.44	149.93	149.48	150.12	0.001777	1.90	4.22	3.25	0.53
ValdiLago	20	Max WS	Sa_30_cr	7.01	148.44	149.87	149.41	150.02	0.001590	1.75	4.01	3.25	0.50
ValdiLago	20	Max WS	Sa_20_cr	6.68	148.44	149.84	149.38	149.99	0.001531	1.70	3.92	3.25	0.49
ValdiLago	19.5			Bridge									
ValdiLago	19.4	Max WS	Sa_200_cr	8.49	148.44	149.92		150.13	0.002773	2.04	4.16	3.25	0.57
ValdiLago	19.4	Max WS	Sa_100_cr	8.01	148.44	149.89		150.09	0.002611	1.96	4.08	3.25	0.56
ValdiLago	19.4	Max WS	Sa_30_cr	7.01	148.44	149.83		150.00	0.002286	1.81	3.88	3.25	0.53
ValdiLago	19.4	Max WS	Sa_20_cr	6.67	148.44	149.81		149.96	0.002181	1.75	3.81	3.25	0.52
ValdiLago	19	Max WS	Sa_200_cr	8.49	148.51	149.91		150.09	0.003314	1.86	4.56	5.49	0.65
ValdiLago	19	Max WS	Sa_100_cr	8.01	148.51	149.88		150.05	0.003287	1.83	4.38	5.38	0.65
ValdiLago	19	Max WS	Sa_30_cr	7.01	148.51	149.80		149.96	0.003244	1.76	3.98	5.14	0.64
ValdiLago	19	Max WS	Sa_20_cr	6.67	148.51	149.77		149.93	0.003241	1.74	3.84	5.05	0.64
ValdiLago	18	Max WS	Sa_200_cr	8.48	148.42	149.82		149.99	0.003189	1.81	4.68	5.65	0.64
ValdiLago	18	Max WS	Sa_100_cr	8.01	148.42	149.79		149.95	0.003159	1.78	4.50	5.54	0.63

HEC-RAS River: ValdiLago Reach: ValdiLago Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	18	Max WS	Sa_30_cr	7.01	148.42	149.72		149.87	0.003101	1.71	4.10	5.30	0.62
ValdiLago	18	Max WS	Sa_20_cr	6.65	148.42	149.69		149.83	0.003088	1.68	3.95	5.20	0.62
ValdiLago	17	Max WS	Sa_200_cr	8.48	148.26	149.63		149.87	0.005016	2.18	3.89	4.91	0.78
ValdiLago	17	Max WS	Sa_100_cr	8.01	148.26	149.61		149.83	0.004818	2.12	3.77	4.83	0.77
ValdiLago	17	Max WS	Sa_30_cr	7.00	148.26	149.55		149.75	0.004416	1.99	3.52	4.62	0.73
ValdiLago	17	Max WS	Sa_20_cr	6.64	148.26	149.53		149.72	0.004290	1.95	3.41	4.54	0.72
ValdiLago	16	Max WS	Sa_200_cr	8.48	148.18	149.59		149.76	0.003348	1.84	4.61	5.76	0.66
ValdiLago	16	Max WS	Sa_100_cr	8.01	148.18	149.57		149.73	0.003185	1.78	4.50	5.69	0.64
ValdiLago	16	Max WS	Sa_30_cr	7.00	148.18	149.52		149.66	0.002897	1.66	4.21	5.51	0.61
ValdiLago	16	Max WS	Sa_20_cr	6.63	148.18	149.50		149.63	0.002807	1.62	4.09	5.43	0.60
ValdiLago	15	Max WS	Sa_200_cr	8.48	148.06	149.53		149.70	0.003143	1.82	4.66	5.31	0.62
ValdiLago	15	Max WS	Sa_100_cr	8.01	148.06	149.52		149.67	0.002919	1.74	4.59	5.29	0.60
ValdiLago	15	Max WS	Sa_30_cr	7.00	148.06	149.48		149.61	0.002541	1.60	4.38	5.20	0.56
ValdiLago	15	Max WS	Sa_20_cr	6.63	148.06	149.46		149.58	0.002424	1.55	4.28	5.16	0.54
ValdiLago	14.9			Lat Struct									
ValdiLago	14	Max WS	Sa_200_cr	8.44	147.73	149.51		149.59	0.001451	1.26	6.90	9.09	0.44
ValdiLago	14	Max WS	Sa_100_cr	7.98	147.73	149.50		149.57	0.001359	1.21	6.77	9.02	0.43
ValdiLago	14	Max WS	Sa_30_cr	6.99	147.73	149.46		149.52	0.001211	1.12	6.40	8.82	0.40
ValdiLago	14	Max WS	Sa_20_cr	6.63	147.73	149.44		149.50	0.001168	1.09	6.23	8.69	0.39
ValdiLago	13.88			Lat Struct									
ValdiLago	13.8	Max WS	Sa_200_cr	6.82	147.69	149.43	148.82	149.57	0.002392	1.66	4.18	3.56	0.46
ValdiLago	13.8	Max WS	Sa_100_cr	6.79	147.69	149.39	148.81	149.54	0.002593	1.70	4.04	3.56	0.48
ValdiLago	13.8	Max WS	Sa_30_cr	6.57	147.69	149.31	148.79	149.47	0.002961	1.76	3.76	3.56	0.51
ValdiLago	13.8	Max WS	Sa_20_cr	6.36	147.69	149.29	148.77	149.45	0.002924	1.73	3.69	3.56	0.51
ValdiLago	13.5			Bridge									
ValdiLago	13	Max WS	Sa_200_cr	6.84	147.69	148.99		149.35	0.006253	2.64	2.59	2.74	0.79
ValdiLago	13	Max WS	Sa_100_cr	6.80	147.69	148.99		149.34	0.006206	2.63	2.59	2.74	0.78
ValdiLago	13	Max WS	Sa_30_cr	6.58	147.69	148.98		149.32	0.005905	2.56	2.57	2.72	0.76
ValdiLago	13	Max WS	Sa_20_cr	6.36	147.69	148.98		149.29	0.005602	2.48	2.56	2.71	0.74

HEC-RAS River: ValdiLago Reach: ValdiLago Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	12.9			Lat Struct									
ValdiLago	12	Max WS	Sa_200_cr	5.90	147.42	149.09	148.39	149.18	0.002255	1.34	4.69	8.20	0.36
ValdiLago	12	Max WS	Sa_100_cr	5.89	147.42	149.09	148.39	149.18	0.002265	1.34	4.66	8.20	0.36
ValdiLago	12	Max WS	Sa_30_cr	5.83	147.42	149.07	148.39	149.16	0.002332	1.35	4.51	8.20	0.36
ValdiLago	12	Max WS	Sa_20_cr	5.76	147.42	149.05	148.38	149.14	0.002397	1.36	4.35	8.20	0.37
ValdiLago	11.7			Bridge									
ValdiLago	011.5	Max WS	Sa_200_cr	5.90	147.42	149.04		149.14	0.002558	1.40	4.30	8.20	0.38
ValdiLago	011.5	Max WS	Sa_100_cr	5.89	147.42	149.04		149.14	0.002554	1.40	4.30	8.20	0.38
ValdiLago	011.5	Max WS	Sa_30_cr	5.83	147.42	149.04		149.14	0.002512	1.39	4.27	7.88	0.38
ValdiLago	011.5	Max WS	Sa_20_cr	5.76	147.42	149.03		149.13	0.002468	1.38	4.25	7.53	0.37
ValdiLago	11.49			Lat Struct									
ValdiLago	011.4	Max WS	Sa_200_cr	5.14	147.42	148.90	148.43	149.12	0.005391	2.08	2.47	2.55	0.55
ValdiLago	011.4	Max WS	Sa_100_cr	5.13	147.42	148.90	148.43	149.12	0.005377	2.08	2.47	2.55	0.55
ValdiLago	011.4	Max WS	Sa_30_cr	5.08	147.42	148.90	148.42	149.11	0.005308	2.06	2.47	2.54	0.55
ValdiLago	011.4	Max WS	Sa_20_cr	5.04	147.42	148.90	148.42	149.11	0.005241	2.05	2.46	2.54	0.55
ValdiLago	11.2			Bridge									
ValdiLago	11	Max WS	Sa_200_cr	5.13	147.31	148.69		148.94	0.006819	2.23	2.30	2.20	0.62
ValdiLago	11	Max WS	Sa_100_cr	5.13	147.31	148.69		148.94	0.006815	2.23	2.30	2.20	0.62
ValdiLago	11	Max WS	Sa_30_cr	5.08	147.31	148.69		148.94	0.006718	2.21	2.30	2.19	0.61
ValdiLago	11	Max WS	Sa_20_cr	5.04	147.31	148.69		148.93	0.006626	2.19	2.30	2.18	0.61
ValdiLago	10.9			Lat Struct									
ValdiLago	10.8			Lat Struct									
ValdiLago	10	Max WS	Sa_200_cr	5.10	147.05	148.67		148.77	0.002206	1.45	3.89	5.31	0.42
ValdiLago	10	Max WS	Sa_100_cr	5.09	147.05	148.67		148.77	0.002204	1.45	3.89	5.31	0.42
ValdiLago	10	Max WS	Sa_30_cr	5.05	147.05	148.67		148.77	0.002186	1.45	3.88	5.31	0.42
ValdiLago	10	Max WS	Sa_20_cr	5.01	147.05	148.67		148.76	0.002168	1.44	3.86	5.31	0.42

HEC-RAS River: ValdiLago Reach: ValdiLago Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	09	Max WS	Sa_200_cr	4.74	146.93	148.51	147.90	148.65	0.002621	1.62	2.92	2.47	0.44
ValdiLago	09	Max WS	Sa_100_cr	4.75	146.93	148.51	147.91	148.65	0.002635	1.63	2.92	2.47	0.44
ValdiLago	09	Max WS	Sa_30_cr	4.74	146.93	148.51	147.91	148.65	0.002624	1.62	2.92	2.47	0.44
ValdiLago	09	Max WS	Sa_20_cr	4.74	146.93	148.51	147.91	148.65	0.002629	1.63	2.92	2.47	0.44
ValdiLago	08.5			Bridge									
ValdiLago	08	Max WS	Sa_200_cr	5.05	146.74	147.79		148.02	0.005044	2.14	2.35	6.11	0.71
ValdiLago	08	Max WS	Sa_100_cr	5.01	146.74	147.78		148.02	0.005097	2.14	2.34	6.10	0.71
ValdiLago	08	Max WS	Sa_30_cr	4.94	146.74	147.78		148.01	0.005065	2.13	2.32	6.09	0.71
ValdiLago	08	Max WS	Sa_20_cr	4.98	146.74	147.77		148.01	0.005317	2.17	2.30	6.08	0.72
ValdiLago	7.9			Lat Struct									
ValdiLago	7.8			Lat Struct									
ValdiLago	07	Max WS	Sa_200_cr	3.84	146.51	147.87		147.91	0.000849	0.90	4.55	4.78	0.27
ValdiLago	07	Max WS	Sa_100_cr	3.99	146.51	147.86		147.90	0.000958	0.95	4.48	4.77	0.29
ValdiLago	07	Max WS	Sa_30_cr	4.21	146.51	147.83		147.88	0.001168	1.03	4.35	4.76	0.31
ValdiLago	07	Max WS	Sa_20_cr	4.55	146.51	147.79		147.86	0.001554	1.17	4.16	4.75	0.36
ValdiLago	06	Max WS	Sa_200_cr	10.35	145.92	147.30	147.30	147.65	0.010224	2.66	4.06	5.66	0.94
ValdiLago	06	Max WS	Sa_100_cr	9.36	145.92	147.26	147.25	147.58	0.010016	2.57	3.79	5.55	0.93
ValdiLago	06	Max WS	Sa_30_cr	8.46	145.92	147.22		147.52	0.009434	2.45	3.59	5.47	0.90
ValdiLago	06	Max WS	Sa_20_cr	7.65	145.92	147.19		147.46	0.008767	2.32	3.42	5.40	0.86
ValdiLago	05	Max WS	Sa_200_cr	5.27	145.42	146.64		146.79	0.005548	1.75	3.01	4.30	0.67
ValdiLago	05	Max WS	Sa_100_cr	5.27	145.42	146.63		146.79	0.005546	1.75	3.01	4.30	0.67
ValdiLago	05	Max WS	Sa_30_cr	5.26	145.42	146.63		146.79	0.005544	1.75	3.01	4.30	0.67
ValdiLago	05	Max WS	Sa_20_cr	5.23	145.42	146.63		146.79	0.005538	1.74	3.00	4.29	0.67
ValdiLago	04	Max WS	Sa_200_cr	5.27	144.84	145.98		146.18	0.007695	1.96	2.69	4.26	0.79
ValdiLago	04	Max WS	Sa_100_cr	5.27	144.84	145.98		146.18	0.007686	1.96	2.69	4.26	0.79
ValdiLago	04	Max WS	Sa_30_cr	5.26	144.84	145.98		146.17	0.007688	1.96	2.69	4.26	0.79
ValdiLago	04	Max WS	Sa_20_cr	5.23	144.84	145.98		146.17	0.007689	1.96	2.67	4.25	0.79
ValdiLago	03	Max WS	Sa_200_cr	5.27	144.33	145.76		145.87	0.004169	1.43	3.68	5.95	0.58
ValdiLago	03	Max WS	Sa_100_cr	5.27	144.33	145.76		145.87	0.004167	1.43	3.68	5.95	0.58

HEC-RAS River: ValdiLago Reach: ValdiLago Profile: Max WS (Continued)

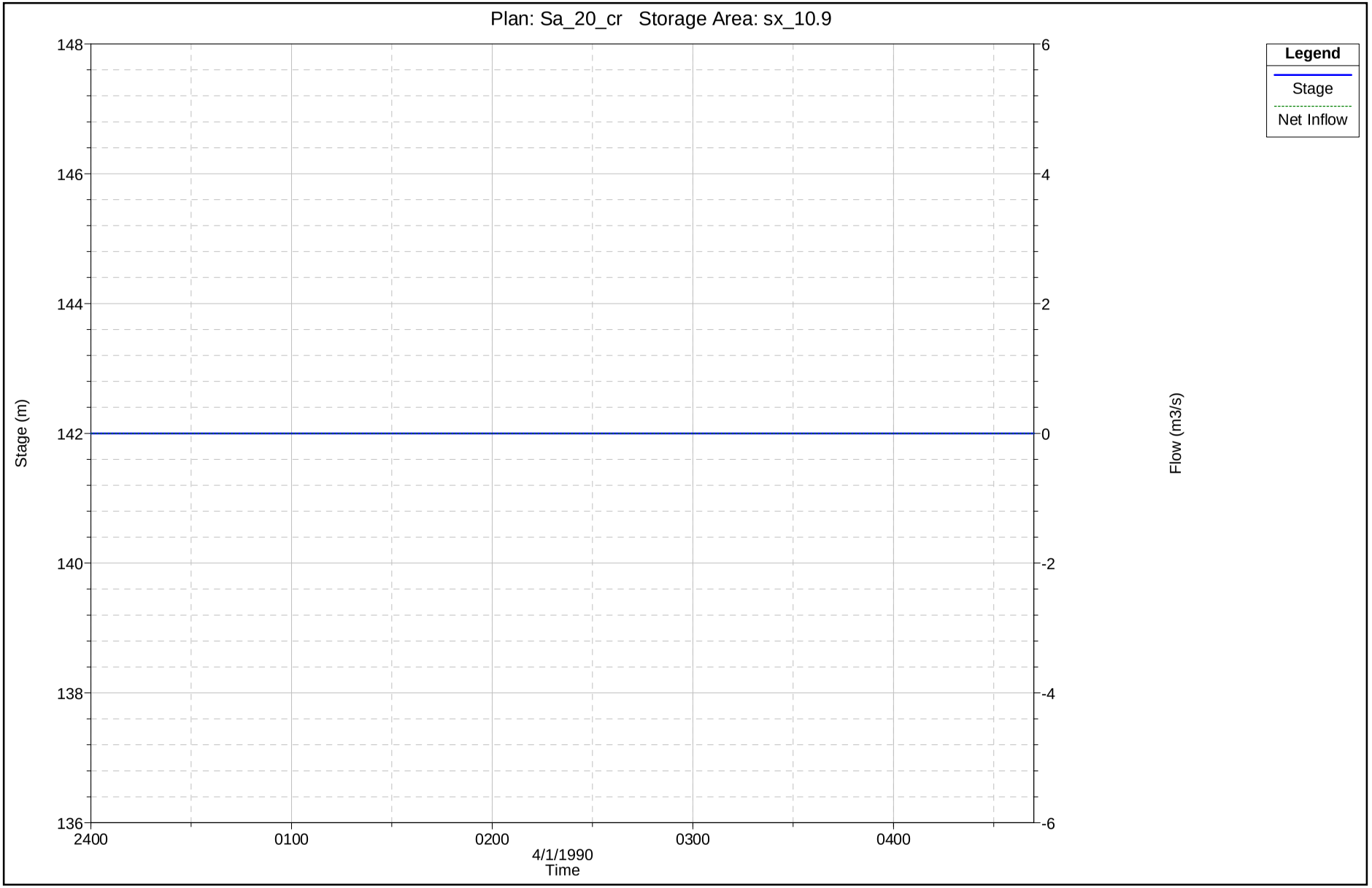
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	03	Max WS	Sa_30_cr	5.26	144.33	145.76		145.87	0.004174	1.43	3.68	5.95	0.58
ValdiLago	03	Max WS	Sa_20_cr	5.23	144.33	145.76		145.86	0.004190	1.43	3.66	5.93	0.58
ValdiLago	02	Max WS	Sa_200_cr	5.27	144.16	145.61	145.15	145.72	0.003183	1.49	3.53	3.50	0.47
ValdiLago	02	Max WS	Sa_100_cr	5.27	144.16	145.61	145.15	145.72	0.003181	1.49	3.53	3.50	0.47
ValdiLago	02	Max WS	Sa_30_cr	5.26	144.16	145.61	145.14	145.72	0.003180	1.49	3.53	3.50	0.47
ValdiLago	02	Max WS	Sa_20_cr	5.23	144.16	145.61	145.14	145.72	0.003173	1.49	3.51	3.50	0.47
ValdiLago	01.5			Bridge									
ValdiLago	01.4	Max WS	Sa_200_cr	5.27	144.16	145.59		145.71	0.003357	1.52	3.46	3.49	0.49
ValdiLago	01.4	Max WS	Sa_100_cr	5.27	144.16	145.59		145.71	0.003358	1.52	3.46	3.48	0.49
ValdiLago	01.4	Max WS	Sa_30_cr	5.26	144.16	145.59		145.71	0.003356	1.52	3.46	3.48	0.49
ValdiLago	01.4	Max WS	Sa_20_cr	5.23	144.16	145.59		145.70	0.003345	1.52	3.45	3.48	0.49
ValdiLago	01	Max WS	Sa_200_cr	5.27	144.28	145.65	145.01	145.69	0.001011	0.99	5.45	6.12	0.31
ValdiLago	01	Max WS	Sa_100_cr	5.27	144.28	145.65	145.01	145.69	0.001011	0.99	5.45	6.12	0.31
ValdiLago	01	Max WS	Sa_30_cr	5.26	144.28	145.64	145.01	145.69	0.001011	0.99	5.44	6.12	0.31
ValdiLago	01	Max WS	Sa_20_cr	5.23	144.28	145.64	145.01	145.69	0.001011	0.98	5.42	6.11	0.31

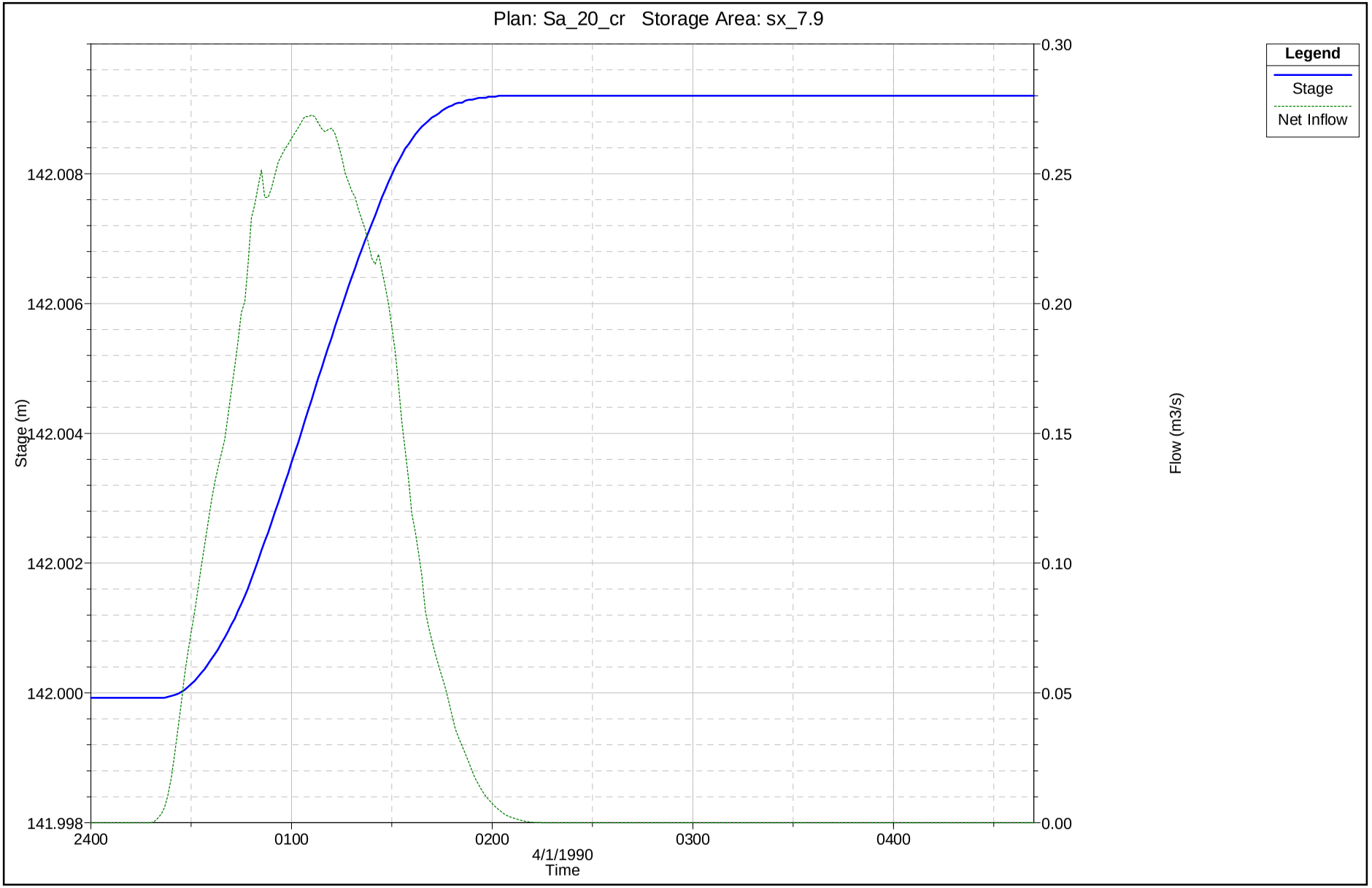
HEC-RAS Profile: Max WS

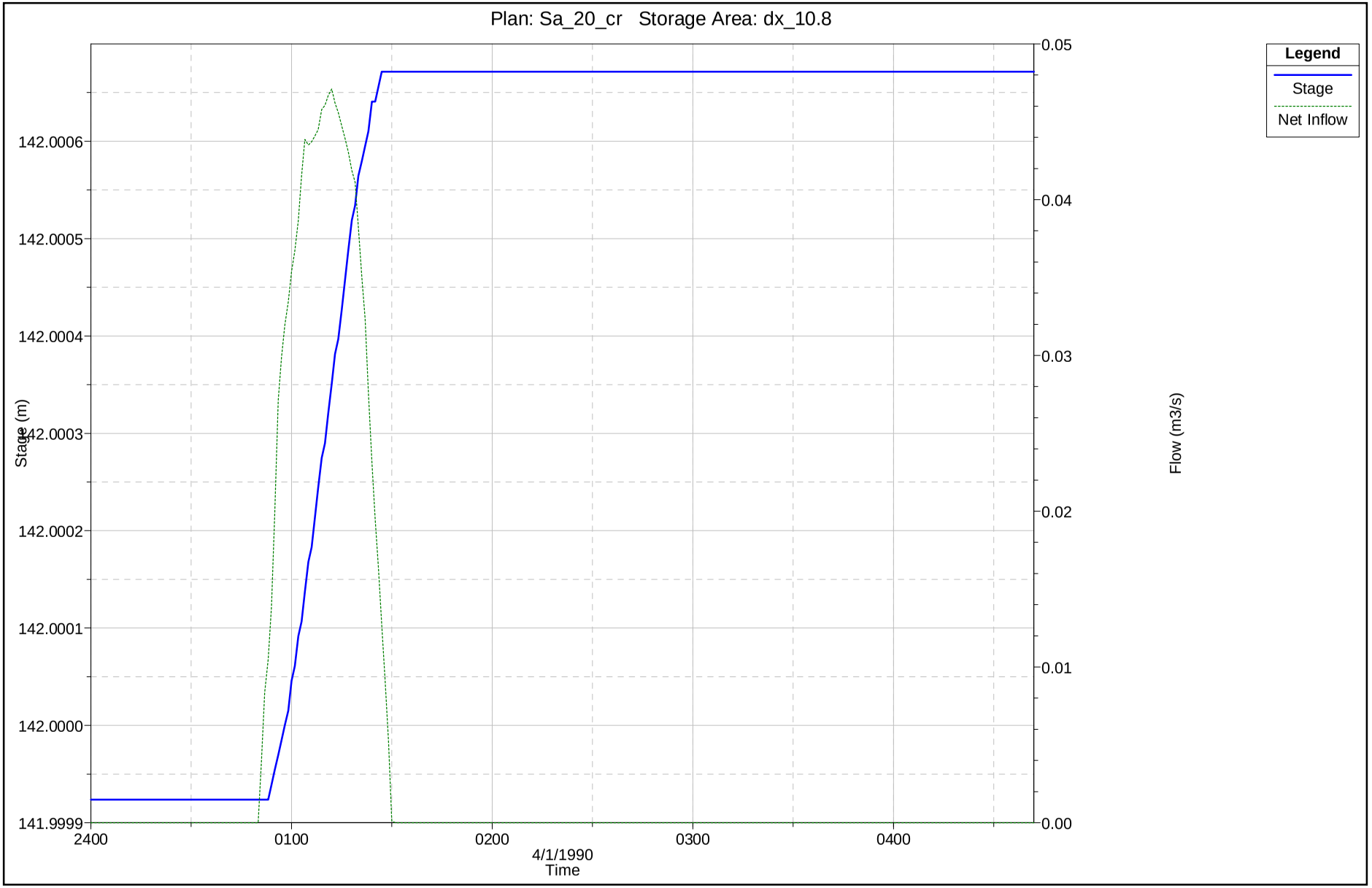
Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
11.49_DX	Max WS	Sa_200_cr	142.05	142.00	0.77	100.00	4.82
11.49_DX	Max WS	Sa_100_cr	142.05	142.00	0.76	100.00	4.57
11.49_DX	Max WS	Sa_30_cr	142.04	142.00	0.74	100.00	4.08
11.49_DX	Max WS	Sa_20_cr	142.04	142.00	0.72	100.00	4.15
12.9_DX	Max WS	Sa_200_cr	142.04	142.00	0.94	100.00	3.66
12.9_DX	Max WS	Sa_100_cr	142.03	142.00	0.91	100.00	3.23
12.9_DX	Max WS	Sa_30_cr	142.02	142.00	0.75	100.00	2.35
12.9_DX	Max WS	Sa_20_cr	142.02	142.00	0.60	100.00	2.16
13.88_SX	Max WS	Sa_200_cr	142.01	142.00	0.40	100.00	0.61
13.88_SX	Max WS	Sa_100_cr	142.00	142.00	0.25	100.00	0.31
13.88_SX	Max WS	Sa_30_cr	142.00	142.00	0.05	100.00	0.03
13.88_SX	Max WS	Sa_20_cr	142.00	142.00	0.02	100.00	0.00
14.9_DX	Max WS	Sa_200_cr	142.02	142.00	1.24	100.00	2.32
14.9_DX	Max WS	Sa_100_cr	142.01	142.00	0.94	100.00	1.49
14.9_DX	Max WS	Sa_30_cr	142.00	142.00	0.38	100.00	0.43
14.9_DX	Max WS	Sa_20_cr	142.00	142.00	0.25	100.00	0.24
24.8_SX	Max WS	Sa_200_cr	142.01	142.00	0.40	100.00	0.52
24.8_SX	Max WS	Sa_100_cr	142.00	142.00	0.21	100.00	0.27
24.8_SX	Max WS	Sa_30_cr	142.00	142.00	0.04	100.00	0.03
24.8_SX	Max WS	Sa_20_cr	142.00	142.00	0.02	100.00	0.03
33.8_SX	Max WS	Sa_200_cr	142.03	142.00	2.33	100.00	3.14
33.8_SX	Max WS	Sa_100_cr	142.02	142.00	1.29	100.00	1.65
33.8_SX	Max WS	Sa_30_cr	142.00	142.00	0.35	100.00	0.37
33.8_SX	Max WS	Sa_20_cr	142.00	142.00	0.22	100.00	0.24
33.9_DX	Max WS	Sa_200_cr	142.07	142.00	3.99	100.00	6.58
33.9_DX	Max WS	Sa_100_cr	142.05	142.00	2.87	100.00	4.85
33.9_DX	Max WS	Sa_30_cr	142.02	142.00	1.59	100.00	2.22
33.9_DX	Max WS	Sa_20_cr	142.02	142.00	1.29	100.00	1.98

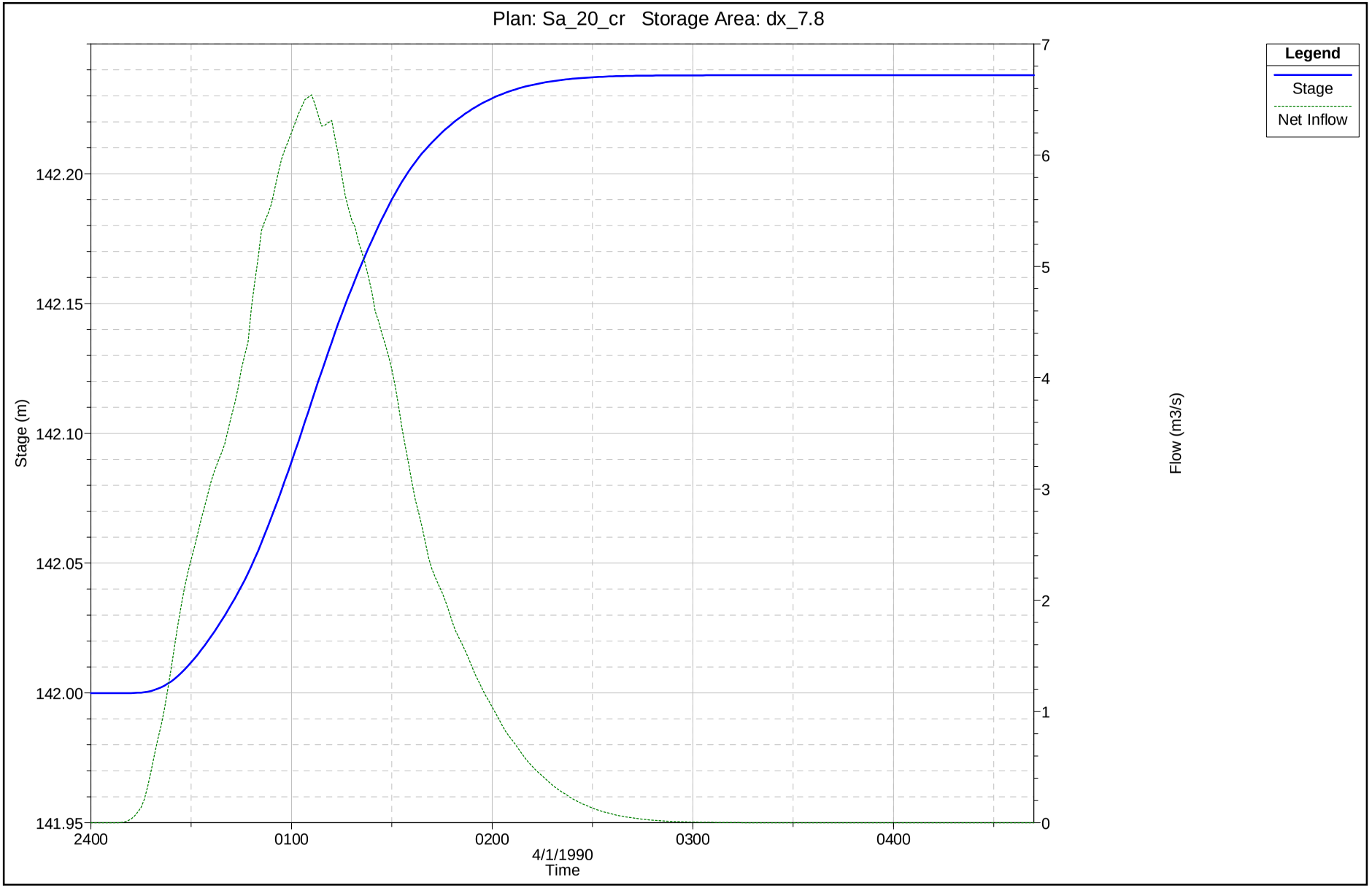
HEC-RAS Profile: Max WS (Continued)

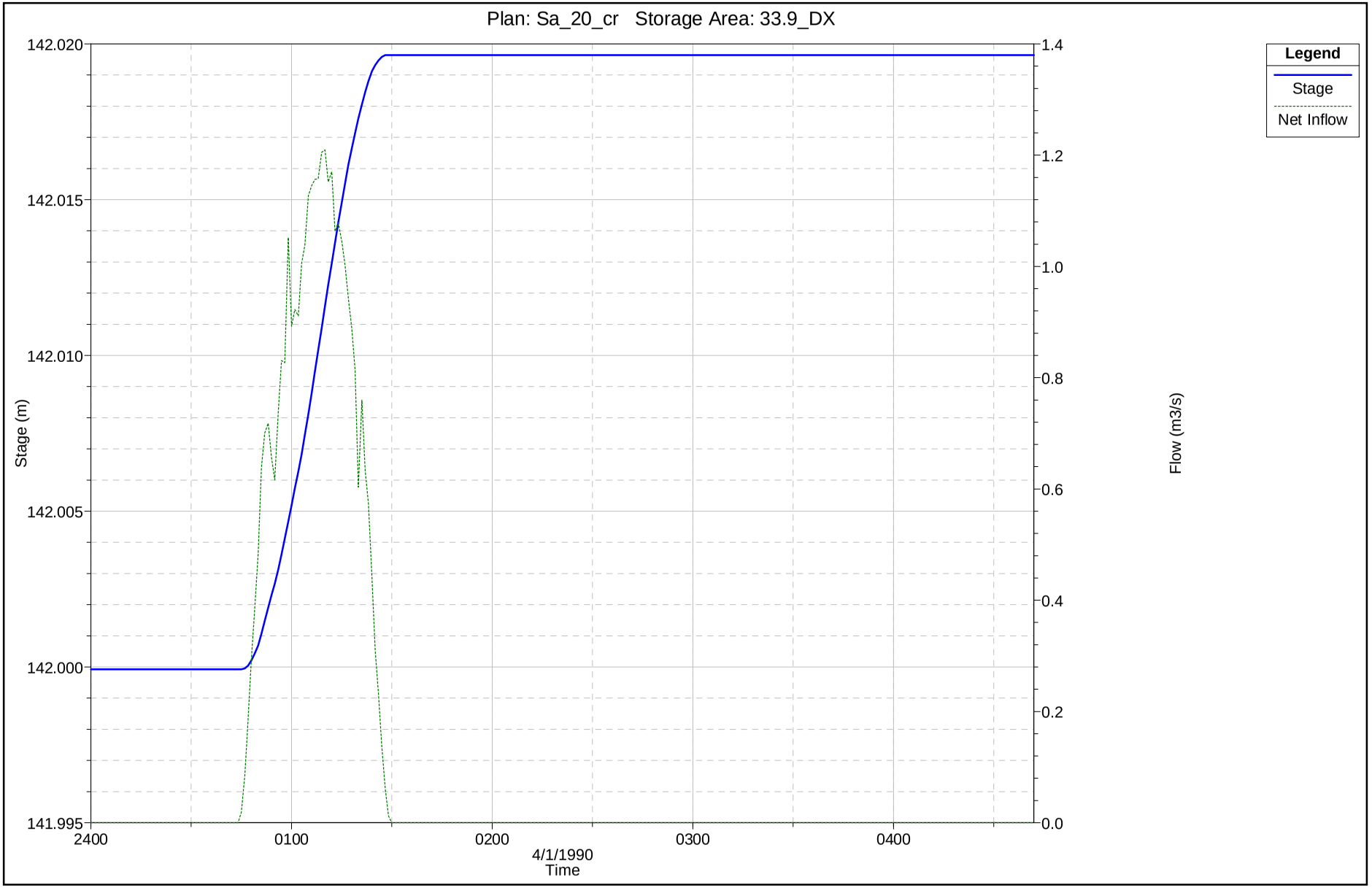
Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
dx_10.8	Max WS	Sa_200_cr	142.00	142.00	0.07	100.00	0.18
dx_10.8	Max WS	Sa_100_cr	142.00	142.00	0.07	100.00	0.15
dx_10.8	Max WS	Sa_30_cr	142.00	142.00	0.06	100.00	0.09
dx_10.8	Max WS	Sa_20_cr	142.00	142.00	0.05	100.00	0.06
dx_7.8	Max WS	Sa_200_cr	142.48	142.00	15.72	100.00	47.91
dx_7.8	Max WS	Sa_100_cr	142.40	142.00	12.26	100.00	40.36
dx_7.8	Max WS	Sa_30_cr	142.30	142.00	9.28	100.00	29.78
dx_7.8	Max WS	Sa_20_cr	142.24	142.00	6.54	100.00	23.81
sx_10.9	Max WS	Sa_200_cr	142.00	142.00	0.00	100.00	0.00
sx_10.9	Max WS	Sa_100_cr	142.00	142.00	0.00	100.00	0.00
sx_10.9	Max WS	Sa_30_cr	142.00	142.00	0.00	100.00	0.00
sx_10.9	Max WS	Sa_20_cr	142.00	142.00	0.00	100.00	0.00
sx_7.9	Max WS	Sa_200_cr	142.02	142.00	0.40	100.00	1.59
sx_7.9	Max WS	Sa_100_cr	142.01	142.00	0.36	100.00	1.43
sx_7.9	Max WS	Sa_30_cr	142.01	142.00	0.32	100.00	1.13
sx_7.9	Max WS	Sa_20_cr	142.01	142.00	0.27	100.00	0.91

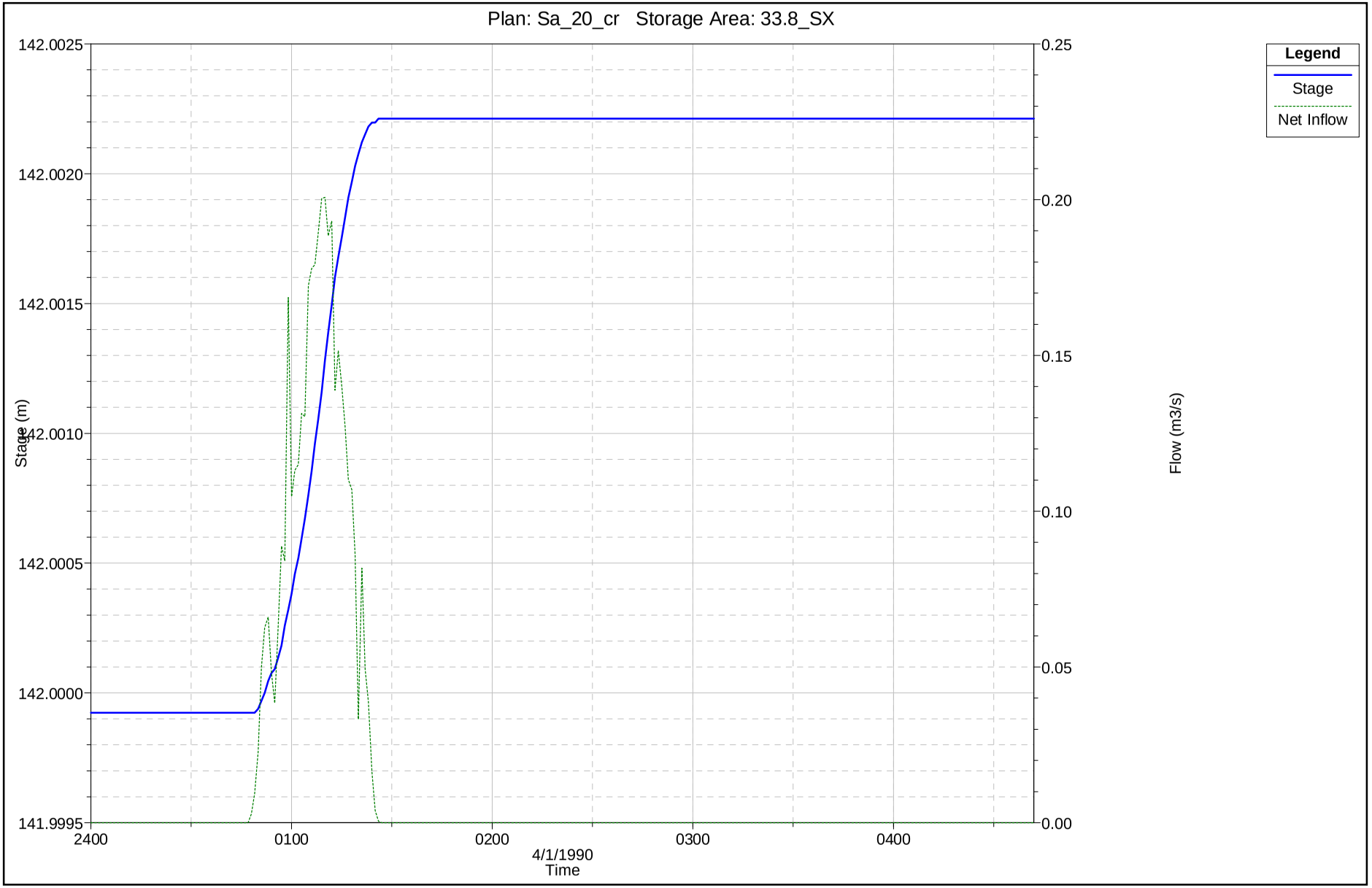

Plan: Sa_20_cr Storage Area: sx_10.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148
146
144
142
140
138
136
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
4/1/1990
Time

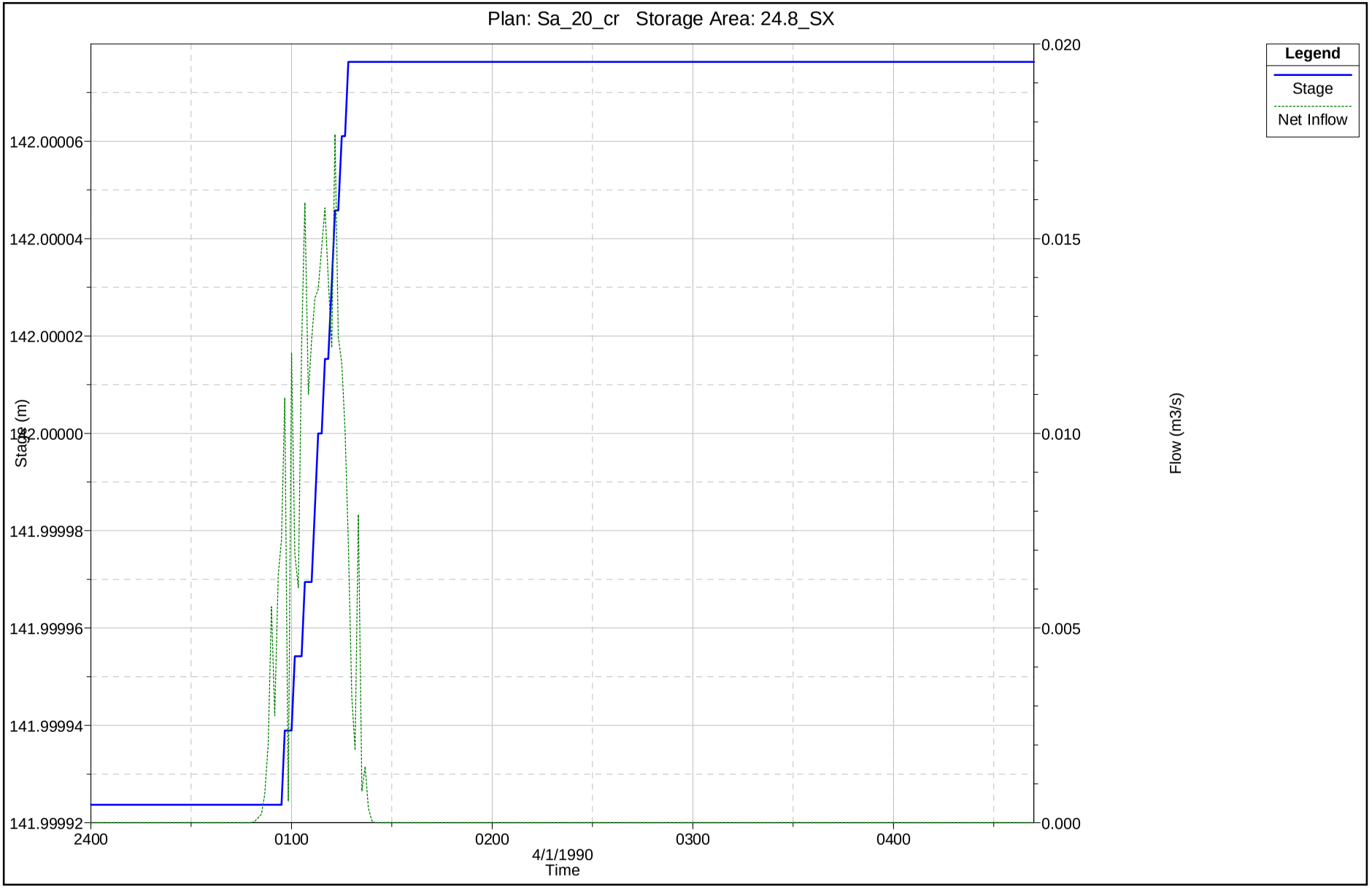

Plan: Sa_20_cr Storage Area: sx_7.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.008
142.006
142.004
142.002
142.000
141.998
0.30
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

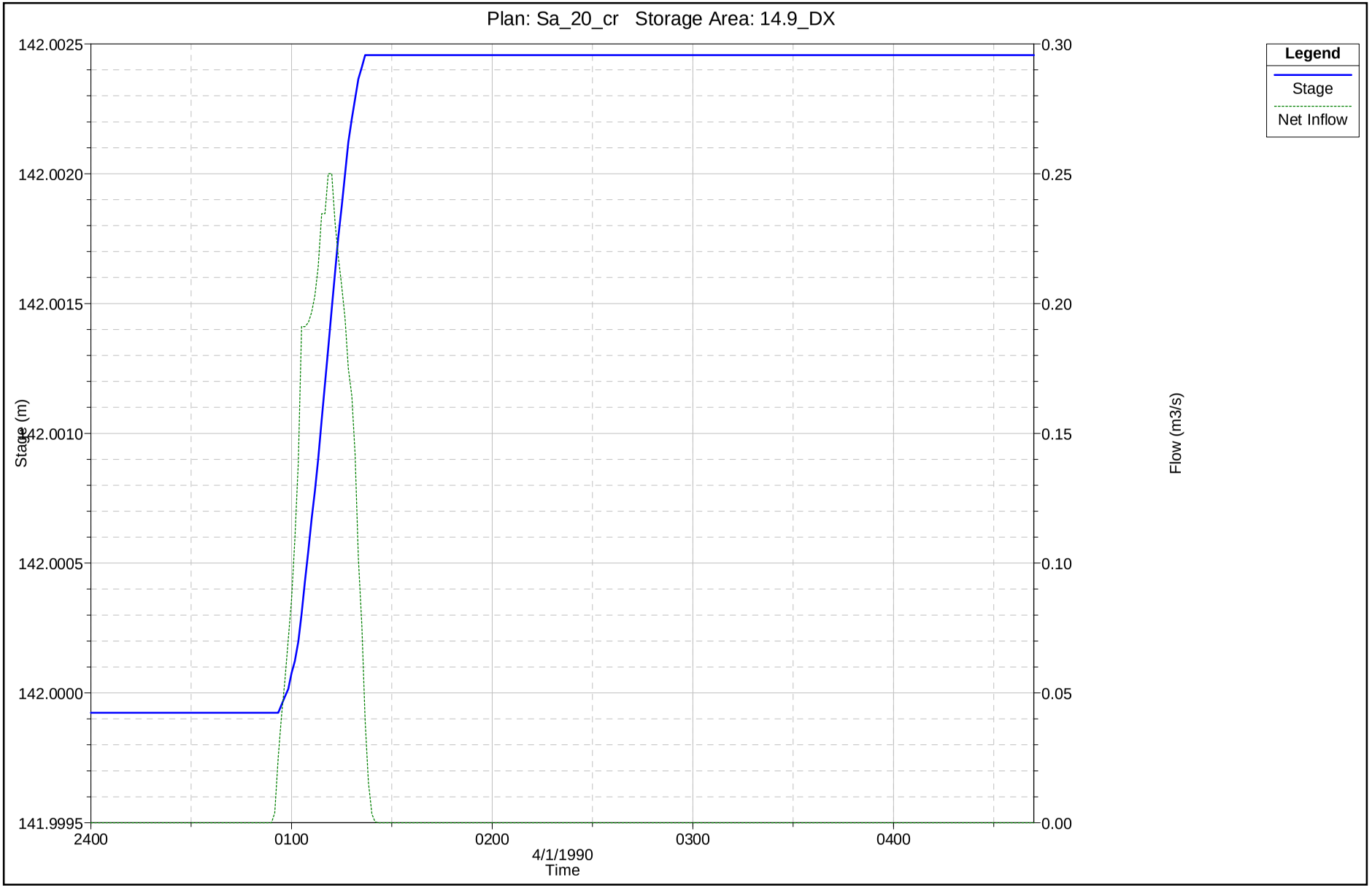

Plan: Sa_20_cr Storage Area: dx_10.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.0006
142.0005
142.0004
142.0003
142.0002
142.0001
142.0000
141.9999
0.05
0.04
0.03
0.02
0.01
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

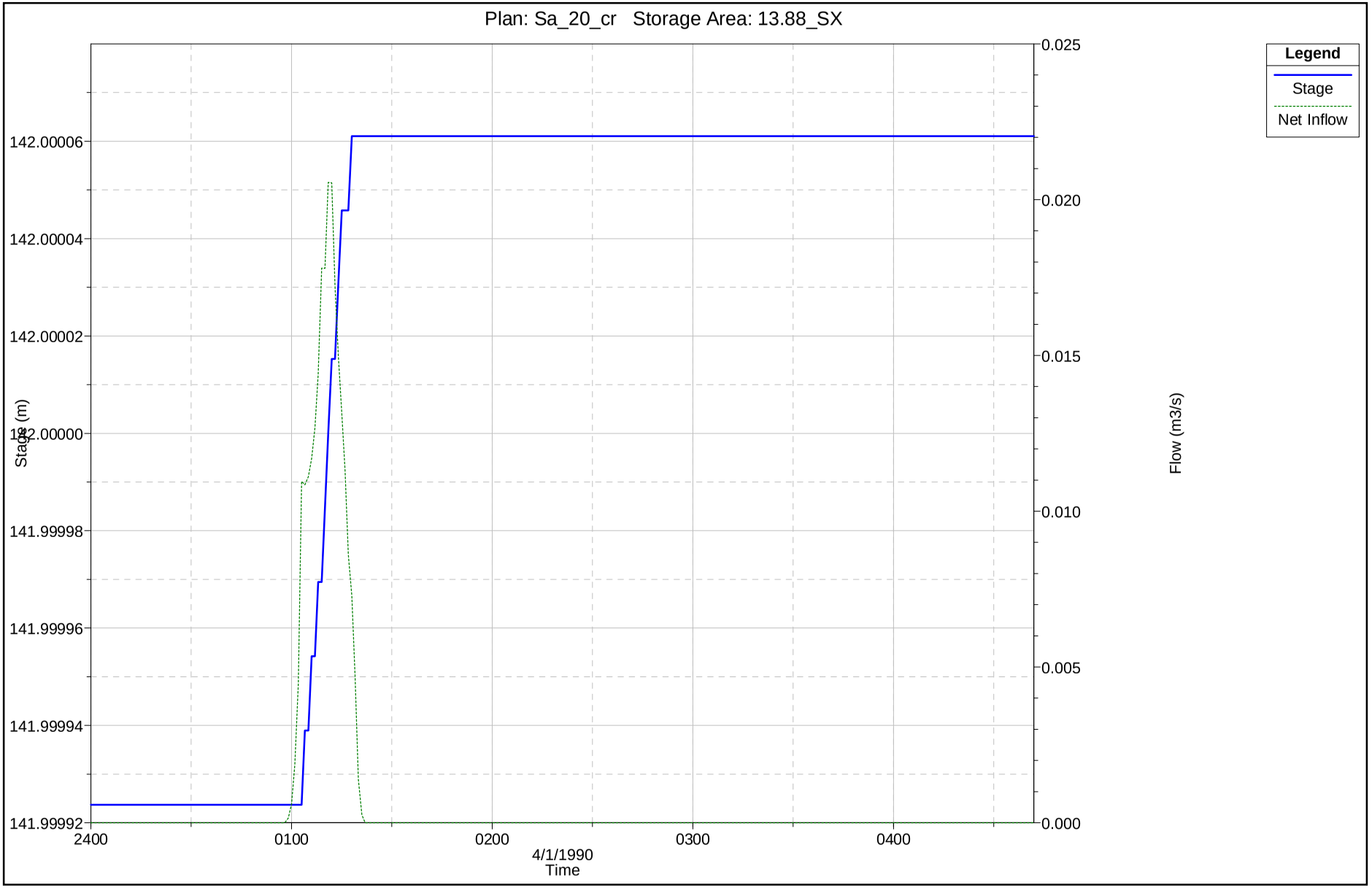

Plan: Sa_20_cr Storage Area: dx_7.8
Legend
Stage
Net Inflow
Stage (m)
142.20
142.15
142.10
142.05
142.00
141.95
Flow (m3/s)
7
6
5
4
3
2
1
0
2400
0100
0200
0300
0400
4/1/1990
Time

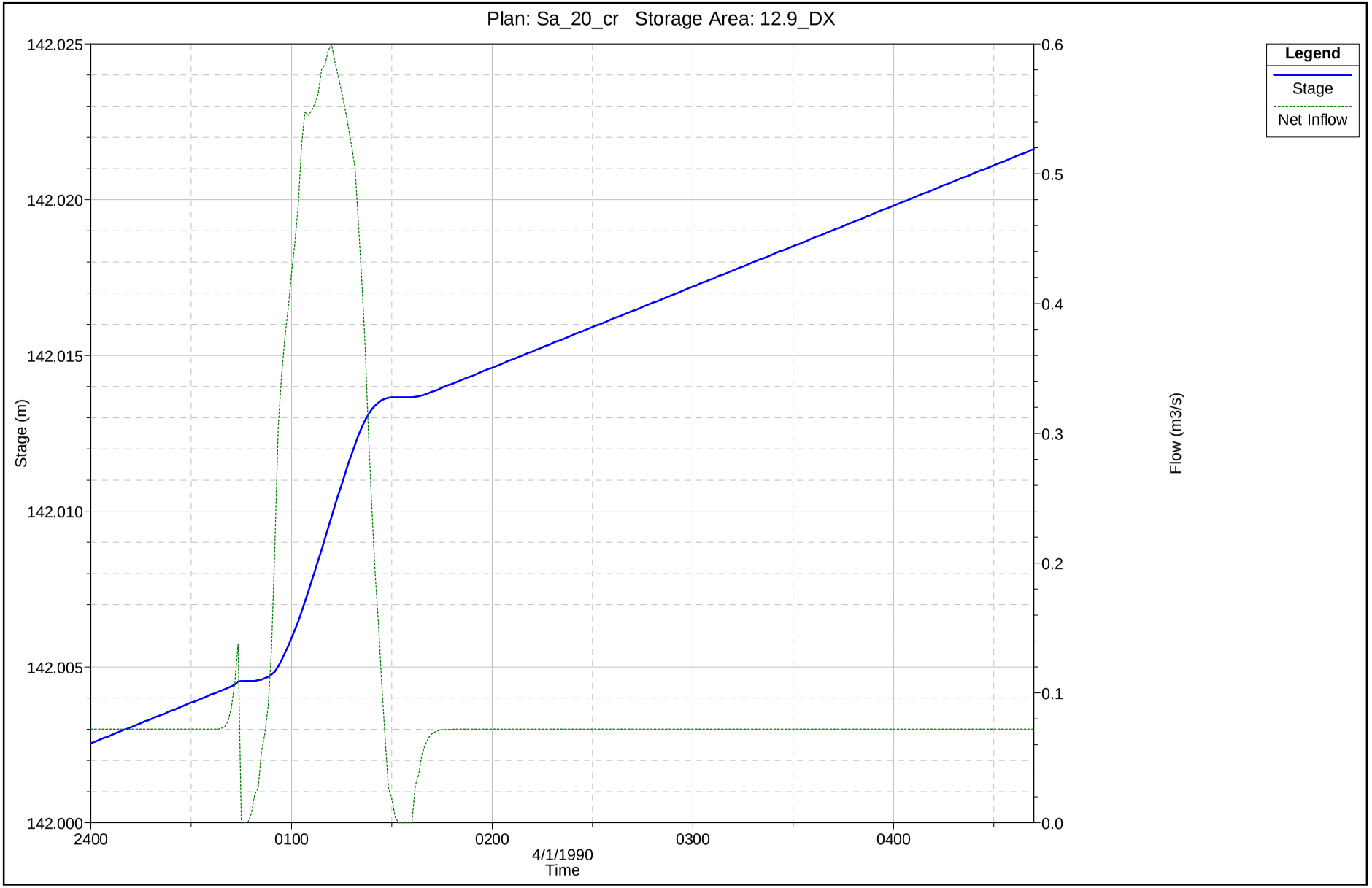

Plan: Sa_20_cr Storage Area: 33.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.020
142.015
142.010
142.005
142.000
141.995
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

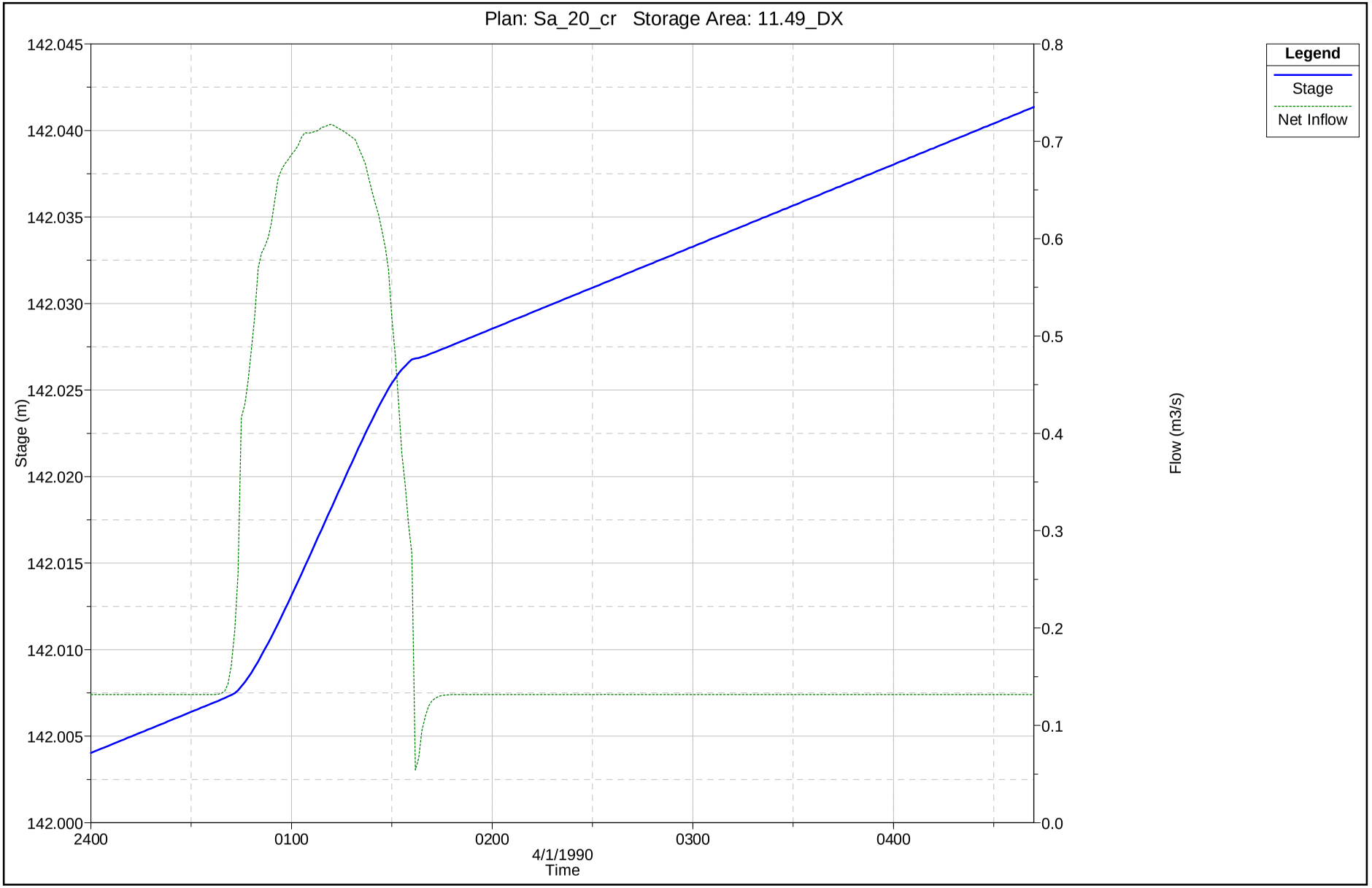

Plan: Sa_20_cr Storage Area: 33.8_SX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.0025
142.0020
142.0015
142.0010
142.0005
142.0000
141.9995
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

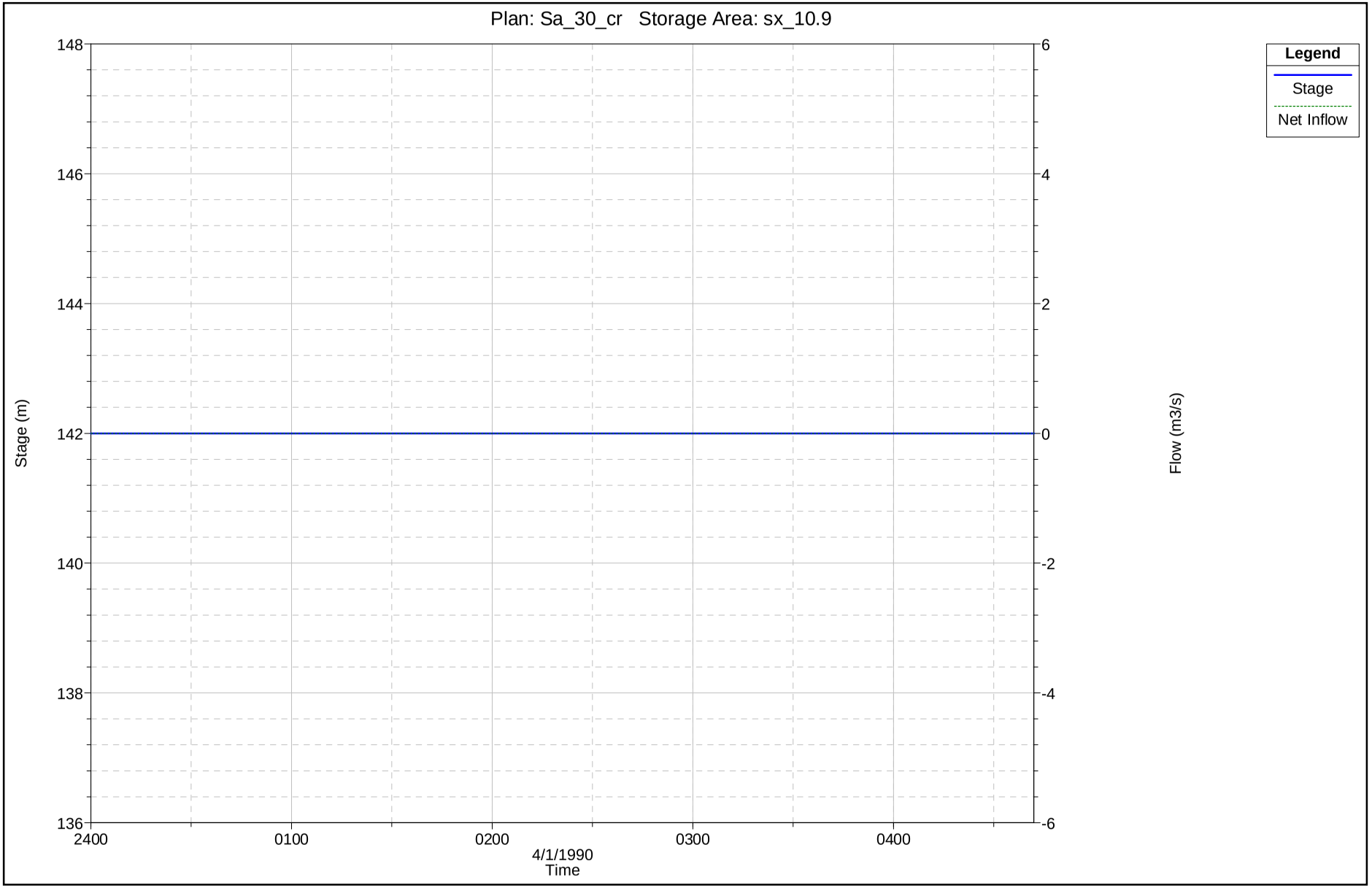

Plan: Sa_20_cr Storage Area: 24.8_SX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.00006
142.00004
142.00002
142.00000
141.99998
141.99996
141.99994
141.99992
0.020
0.015
0.010
0.005
0.000
2400
0100
0200
0300
0400
4/1/1990
Time

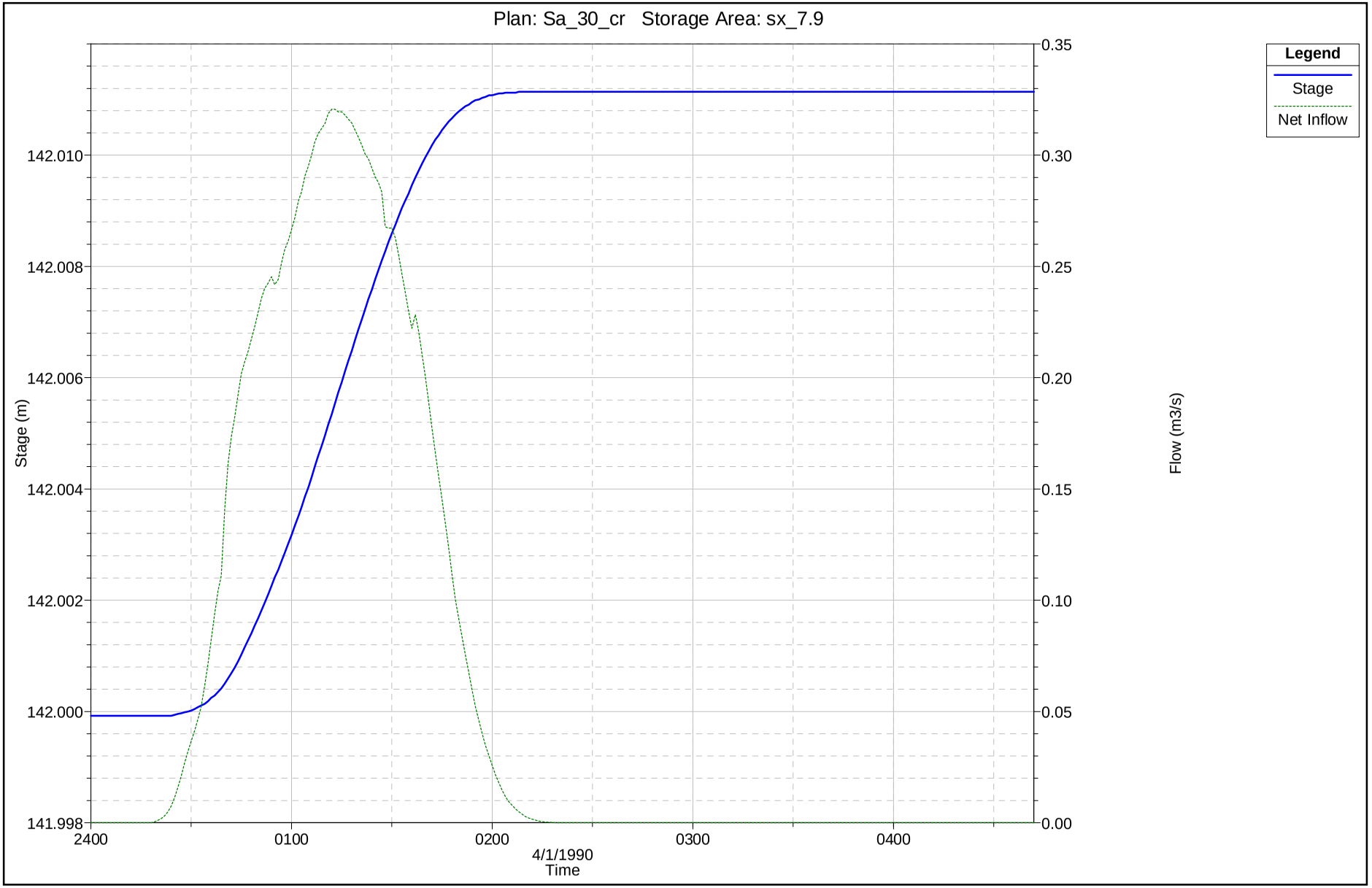

Plan: Sa_20_cr Storage Area: 14.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.0025
142.0020
142.0015
142.0010
142.0005
142.0000
141.9995
0.30
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

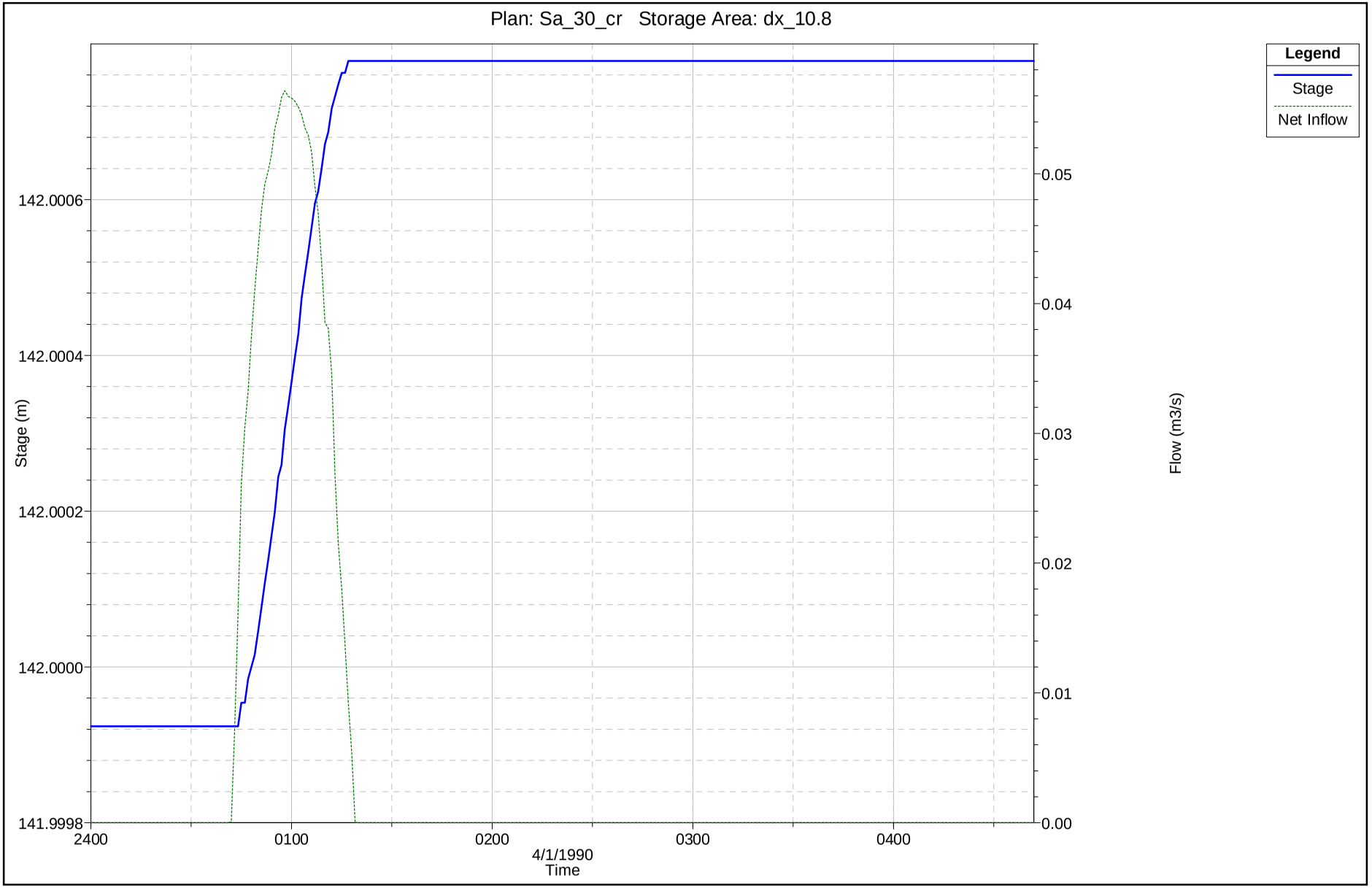

Plan: Sa_20_cr Storage Area: 13.88_SX
Legend
Stage
Net Inflow
142.00006
142.00004
142.00002
142.00000
141.99998
141.99996
141.99994
141.99992
Stage (m)
0.025
0.020
0.015
0.010
0.005
0.000
Flow (m3/s)
2400
0100
0200
0300
0400
4/1/1990
Time

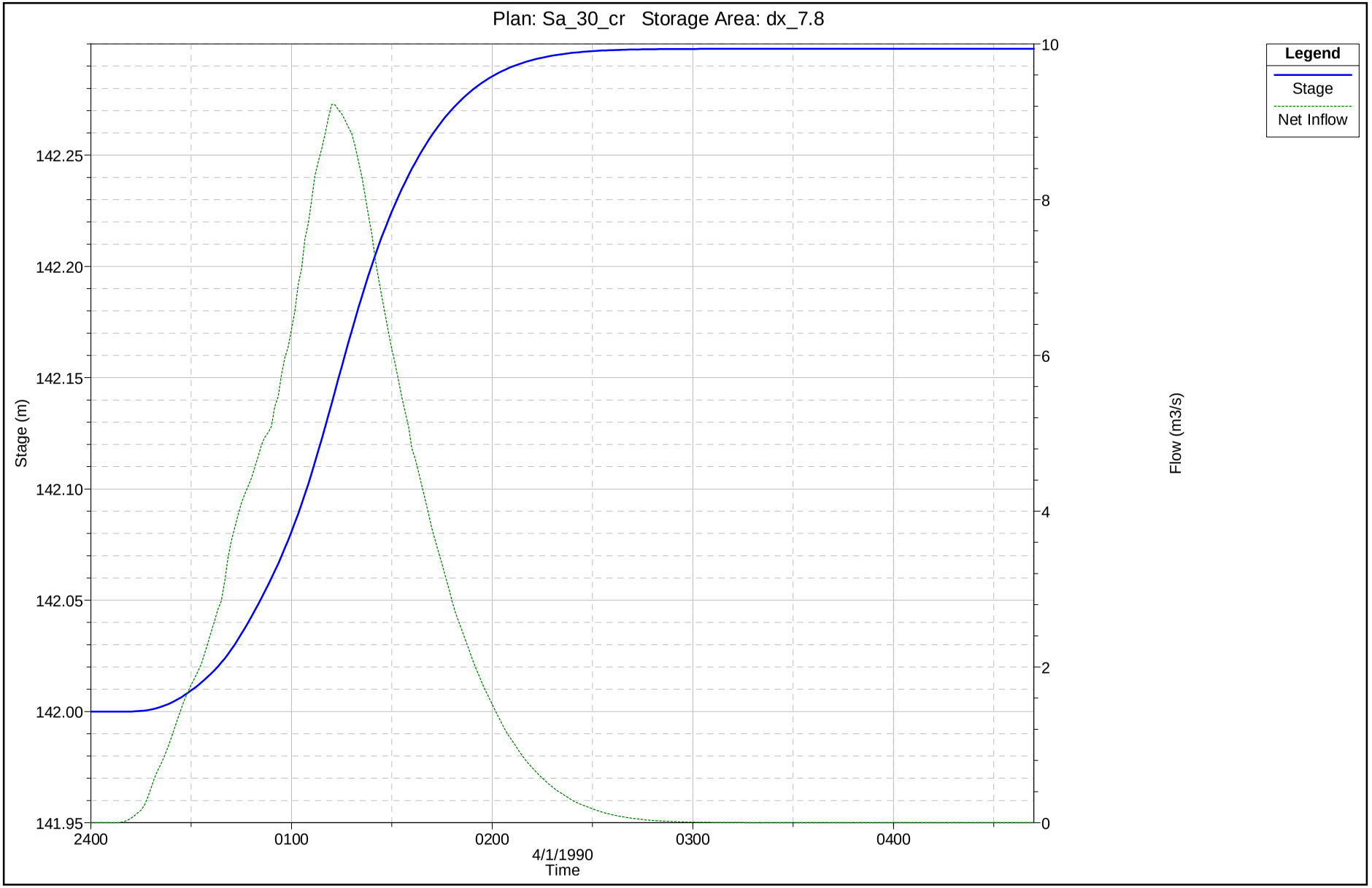

Plan: Sa_20_cr Storage Area: 12.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.025
142.020
142.015
142.010
142.005
142.000
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

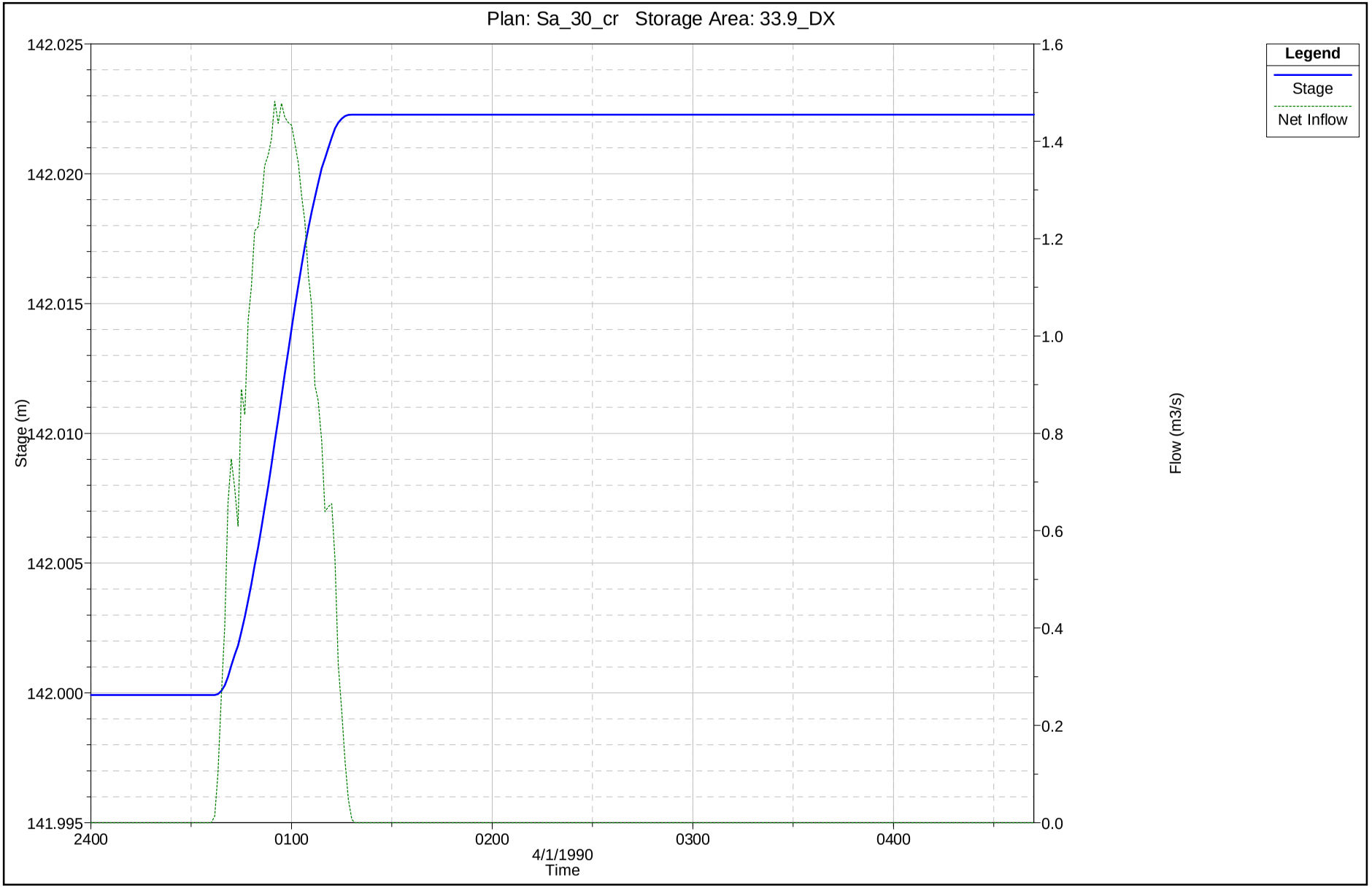

Plan: Sa_20_cr Storage Area: 11.49_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.045
142.040
142.035
142.030
142.025
142.020
142.015
142.010
142.005
142.000
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

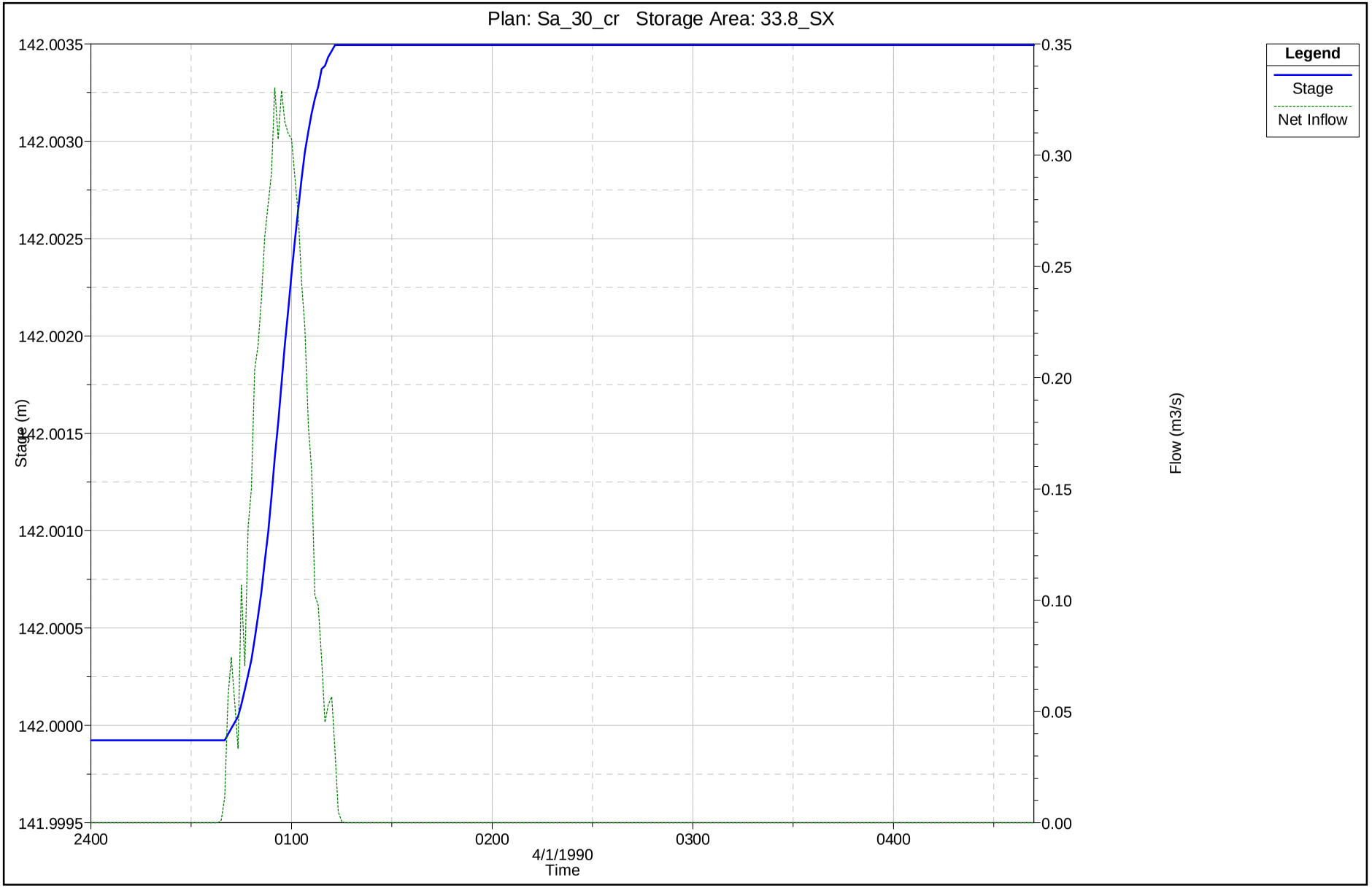

Plan: Sa_30_cr Storage Area: sx_10.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148
146
144
142
140
138
136
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
4/1/1990
Time

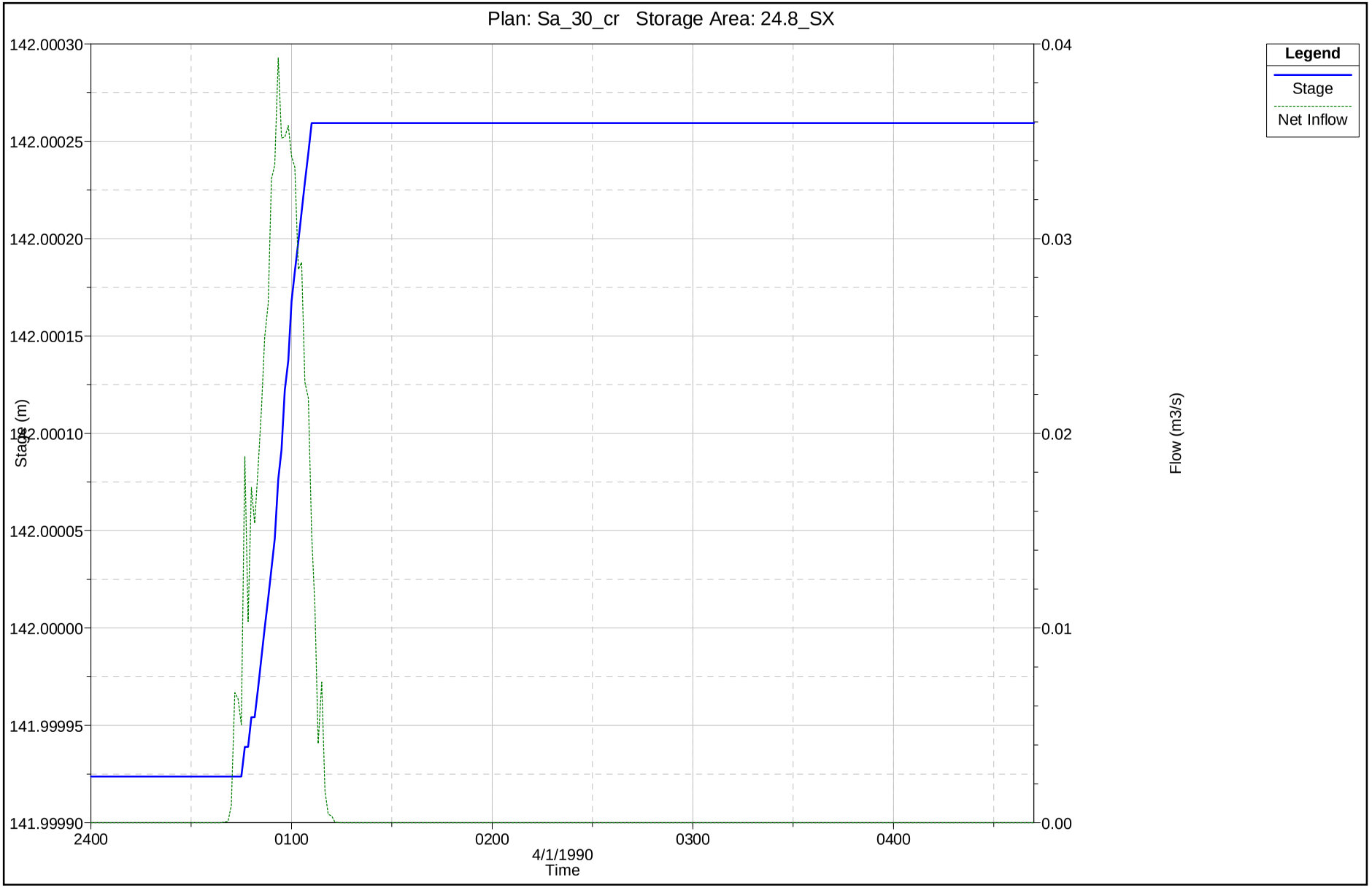

Plan: Sa_30_cr Storage Area: sx_7.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.010
142.008
142.006
142.004
142.002
142.000
141.998
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

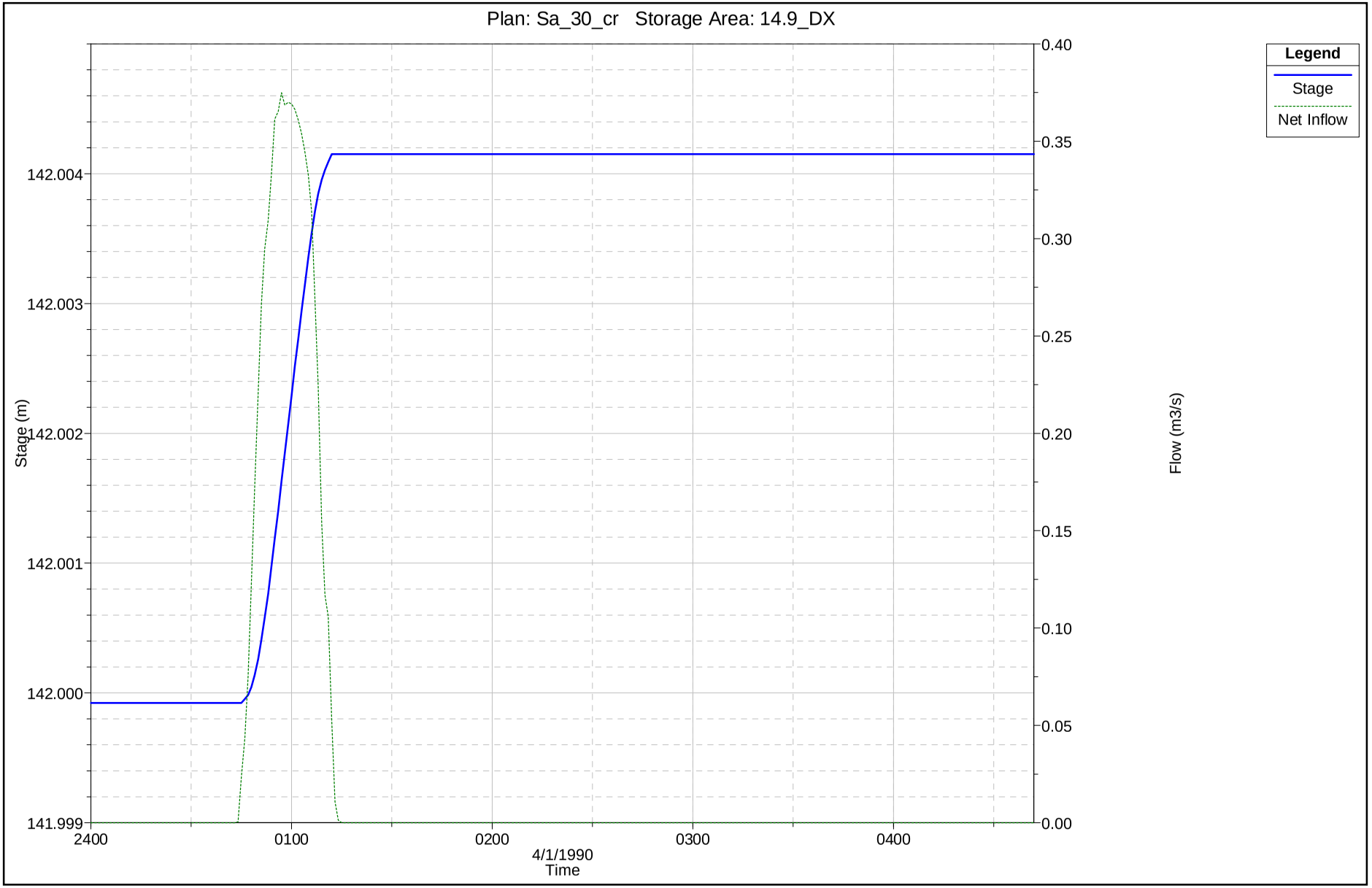

Plan: Sa_30_cr Storage Area: dx_10.8
Legend
Stage
Net Inflow
142.0006
142.0004
142.0002
142.0000
141.9998
Stage (m)
0.05
0.04
0.03
0.02
0.01
0.00
Flow (m3/s)
2400
0100
0200
0300
0400
4/1/1990
Time

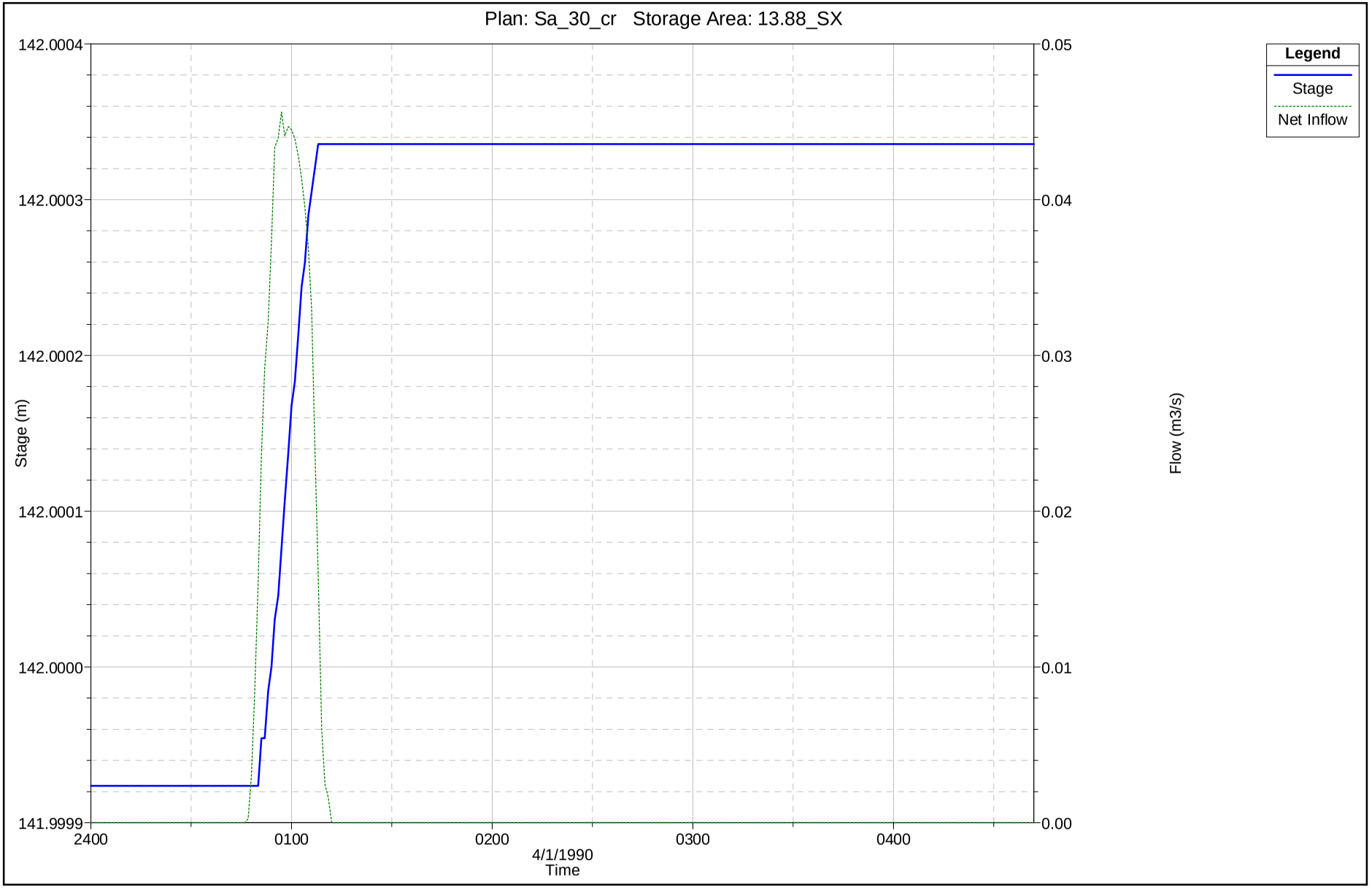

Plan: Sa_30_cr Storage Area: dx_7.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.25
142.20
142.15
142.10
142.05
142.00
141.95
10
8
6
4
2
0
2400
0100
0200
0300
0400
4/1/1990
Time

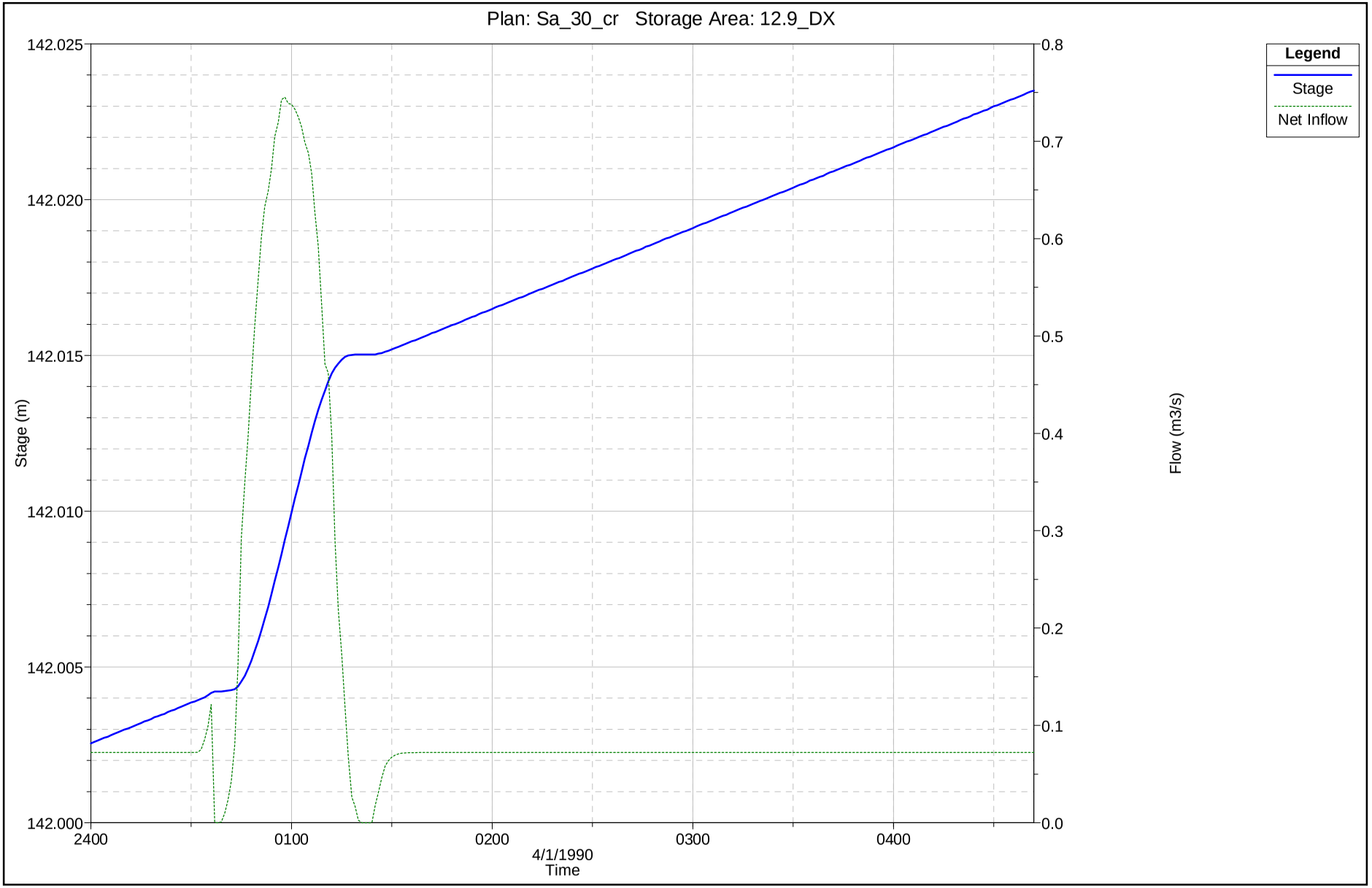

Plan: Sa_30_cr Storage Area: 33.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.025
142.020
142.015
142.010
142.005
142.000
141.995
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

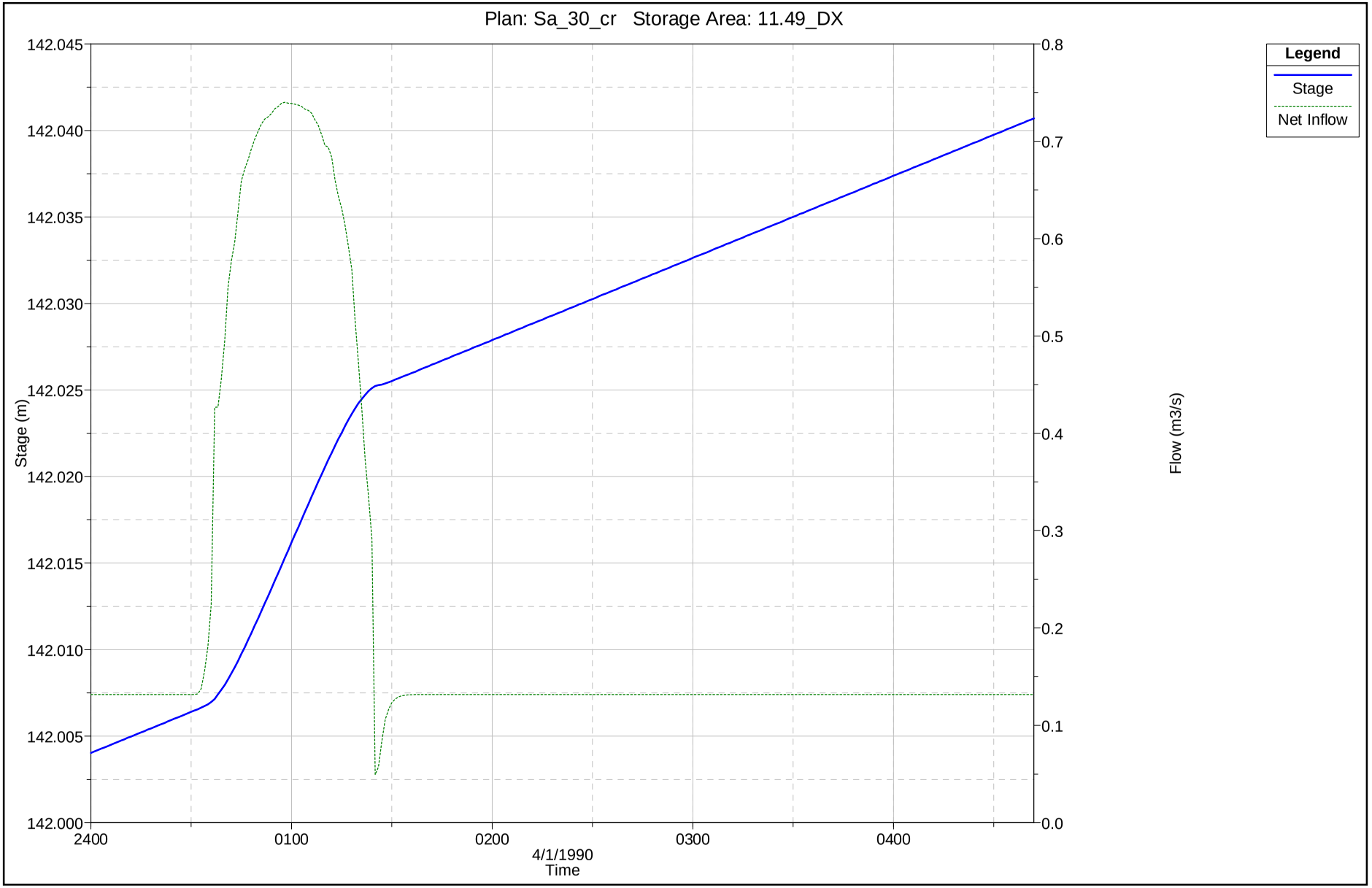

Plan: Sa_30_cr Storage Area: 33.8_SX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.0035
142.0030
142.0025
142.0020
142.0015
142.0010
142.0005
142.0000
141.9995
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

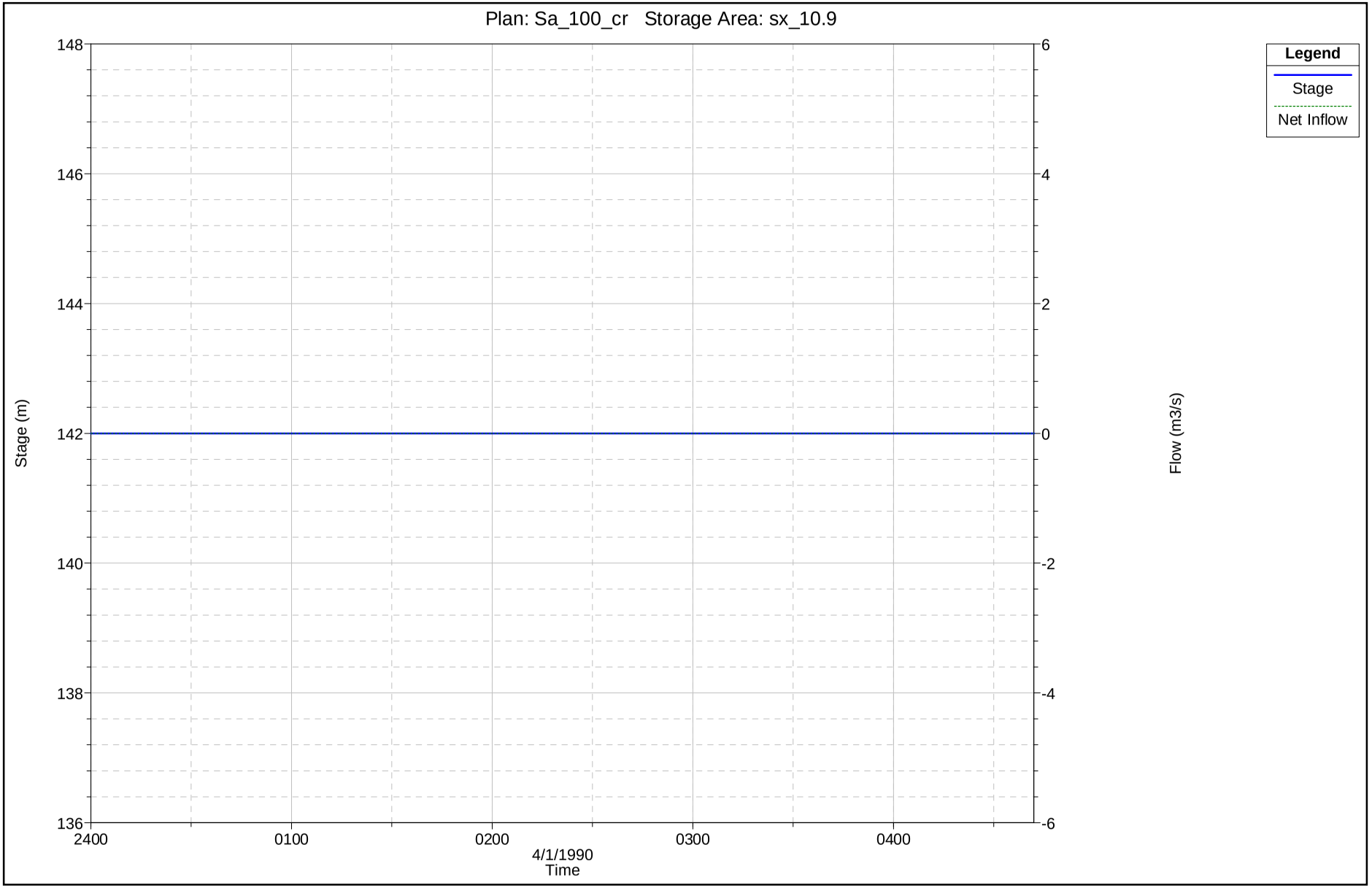

Plan: Sa_30_cr Storage Area: 24.8_SX
Legend
Stage
Net Inflow
142.00030
142.00025
142.00020
142.00015
142.00010
142.00005
142.00000
141.99995
141.99990
Stage (m)
0.04
0.03
0.02
0.01
0.00
Flow (m3/s)
2400
0100
0200
0300
0400
4/1/1990
Time

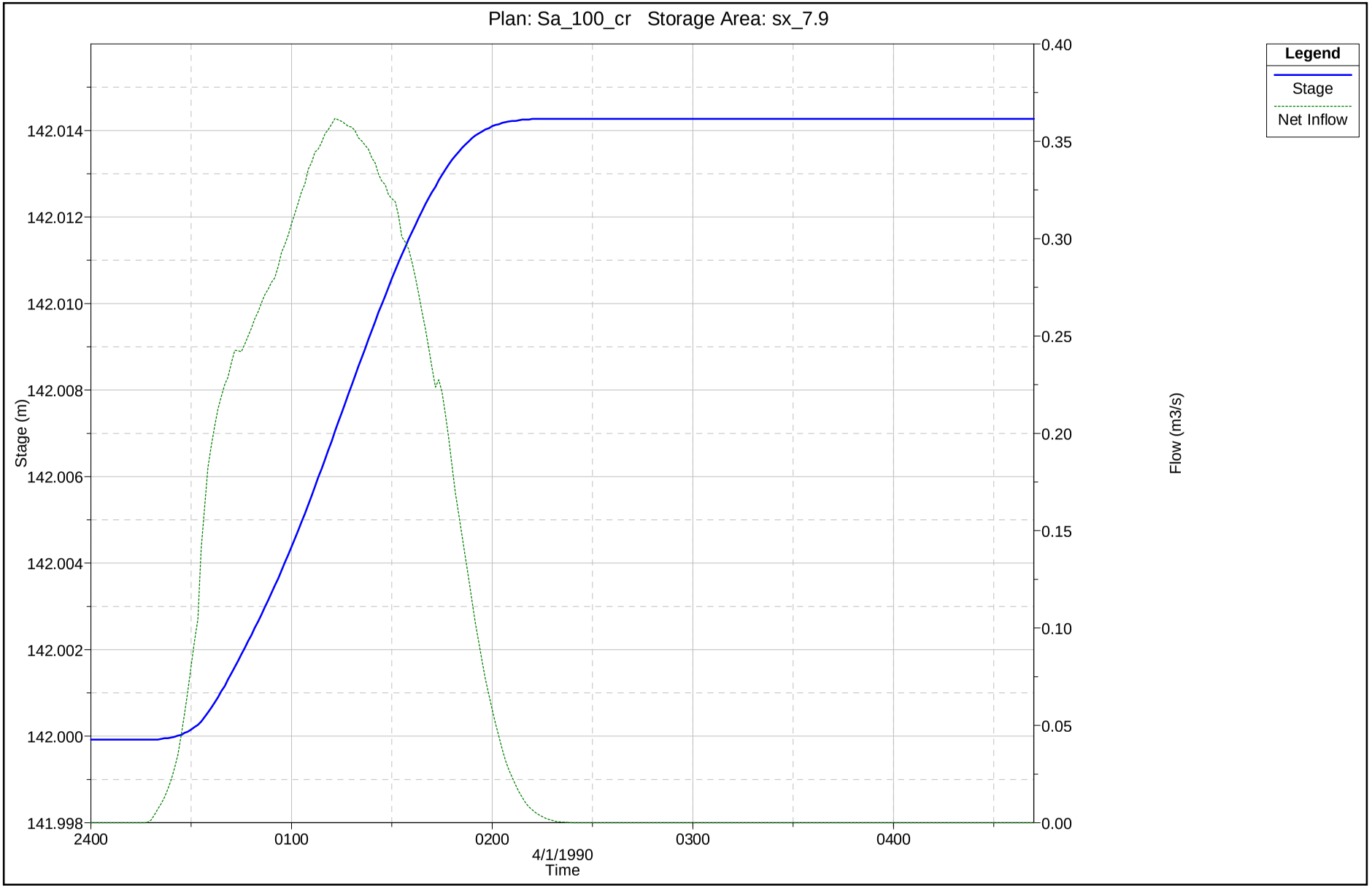

Plan: Sa_30_cr Storage Area: 14.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.004
142.003
142.002
142.001
142.000
141.999
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

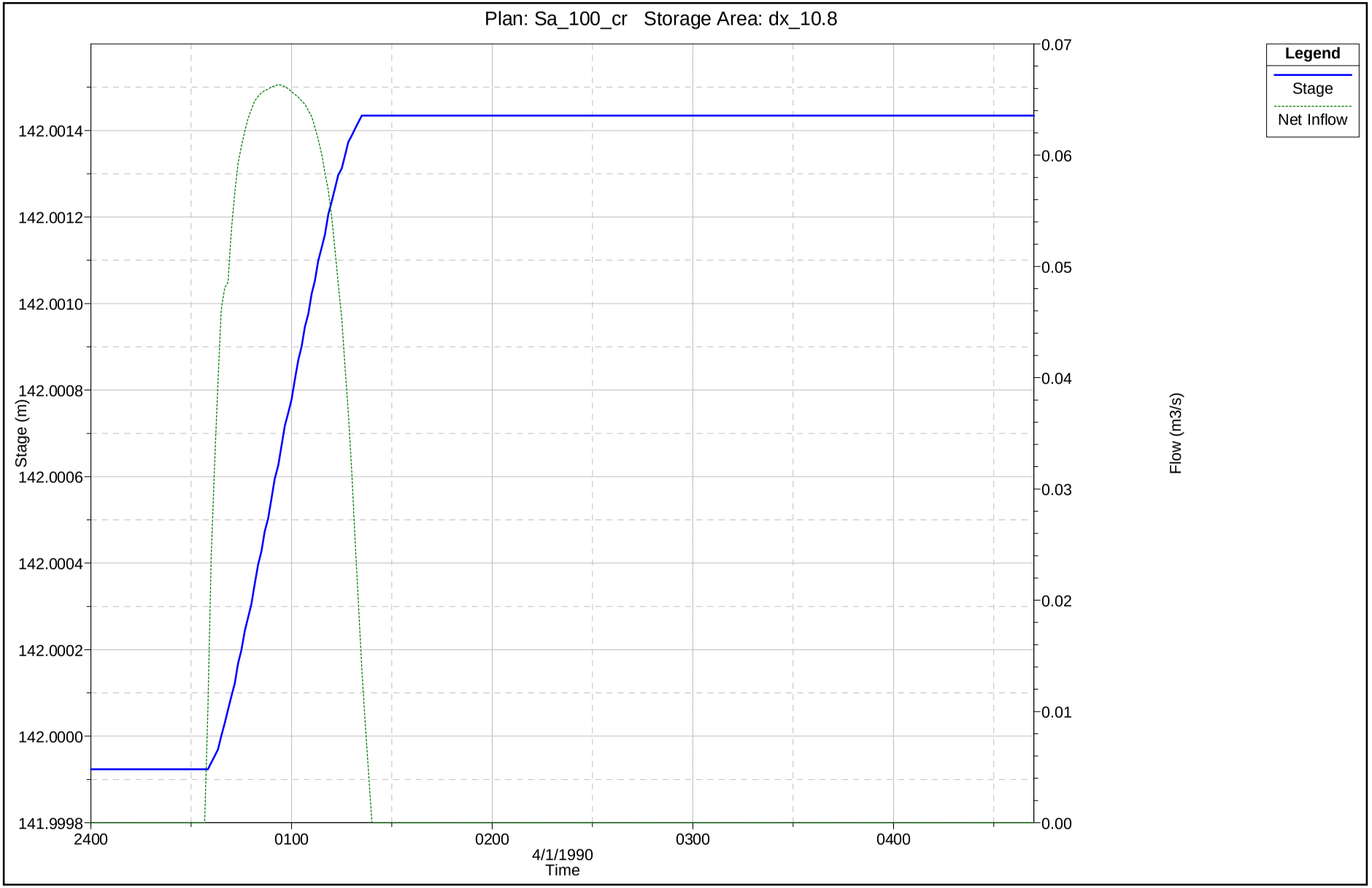

Plan: Sa_30_cr Storage Area: 13.88_SX
142.0004
142.0003
142.0002
142.0001
142.0000
141.9999
Stage (m)
0.05
0.04
0.03
0.02
0.01
0.00
Flow (m3/s)
2400
0100
0200
0300
0400
4/1/1990
Time
Legend
Stage
Net Inflow

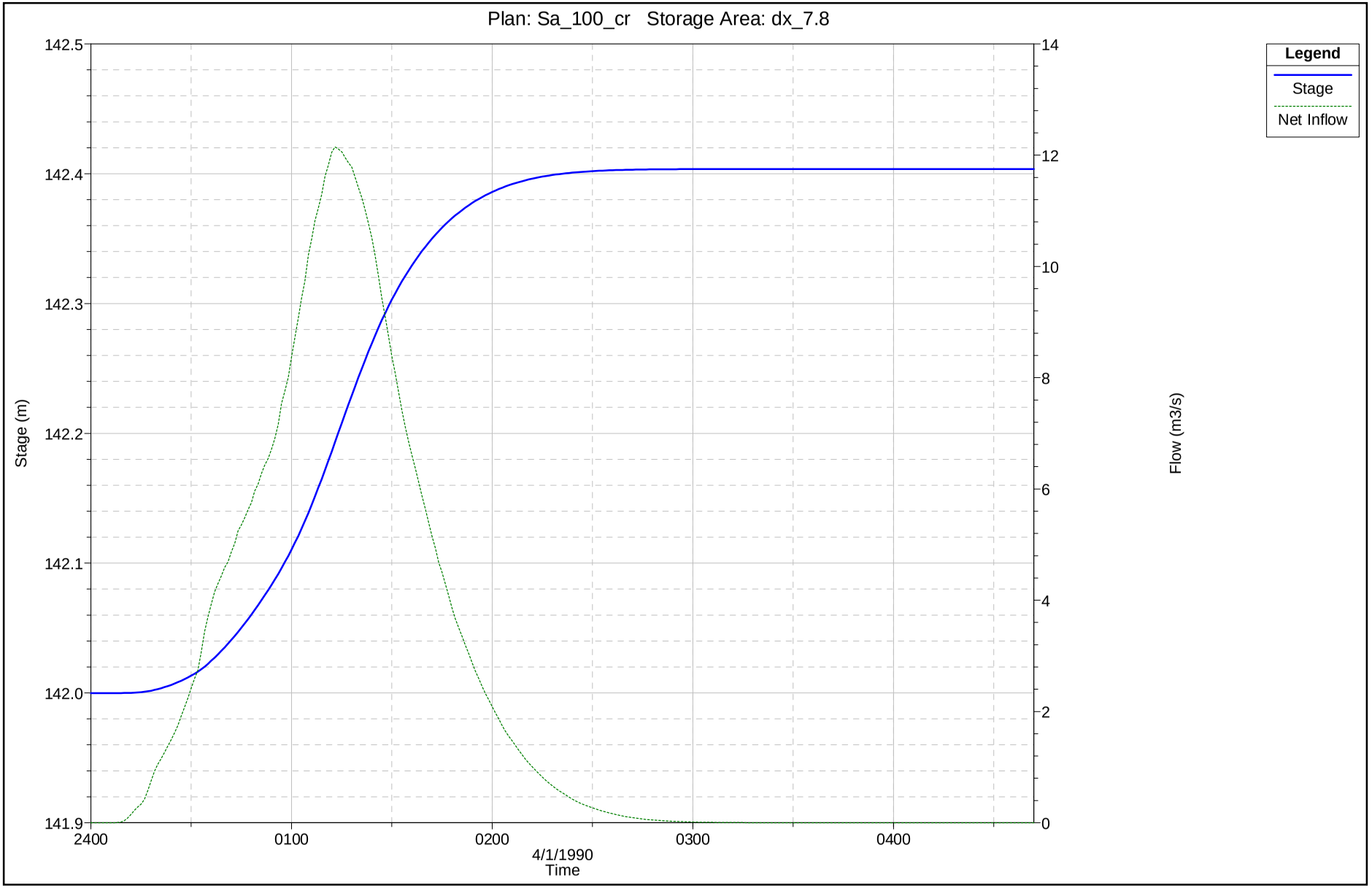

Plan: Sa_30_cr Storage Area: 12.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.025
142.020
142.015
142.010
142.005
142.000
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

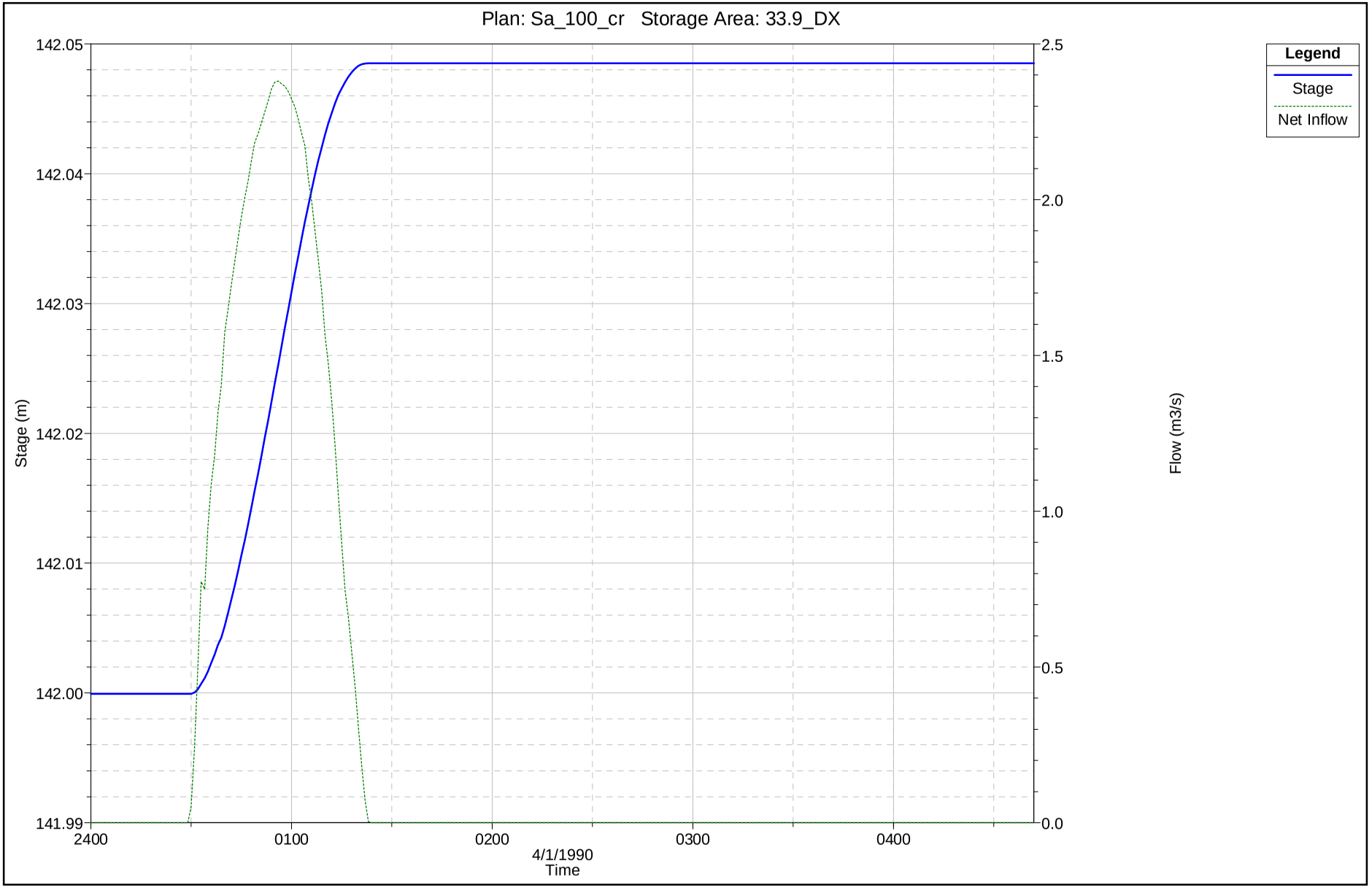

Plan: Sa_30_cr Storage Area: 11.49_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.045
142.040
142.035
142.030
142.025
142.020
142.015
142.010
142.005
142.000
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

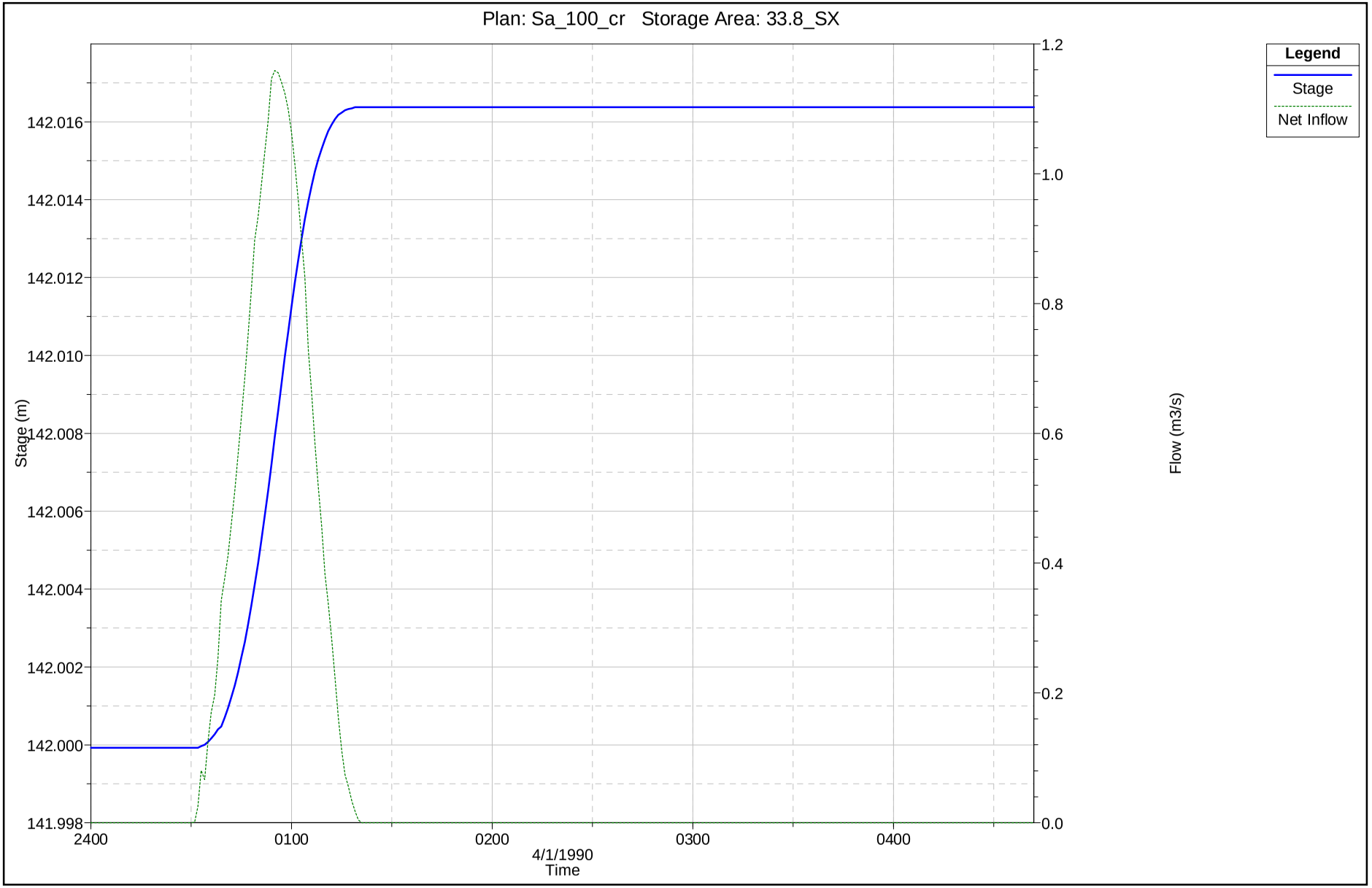

Plan: Sa_100_cr Storage Area: sx_10.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148
146
144
142
140
138
136
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
4/1/1990
Time

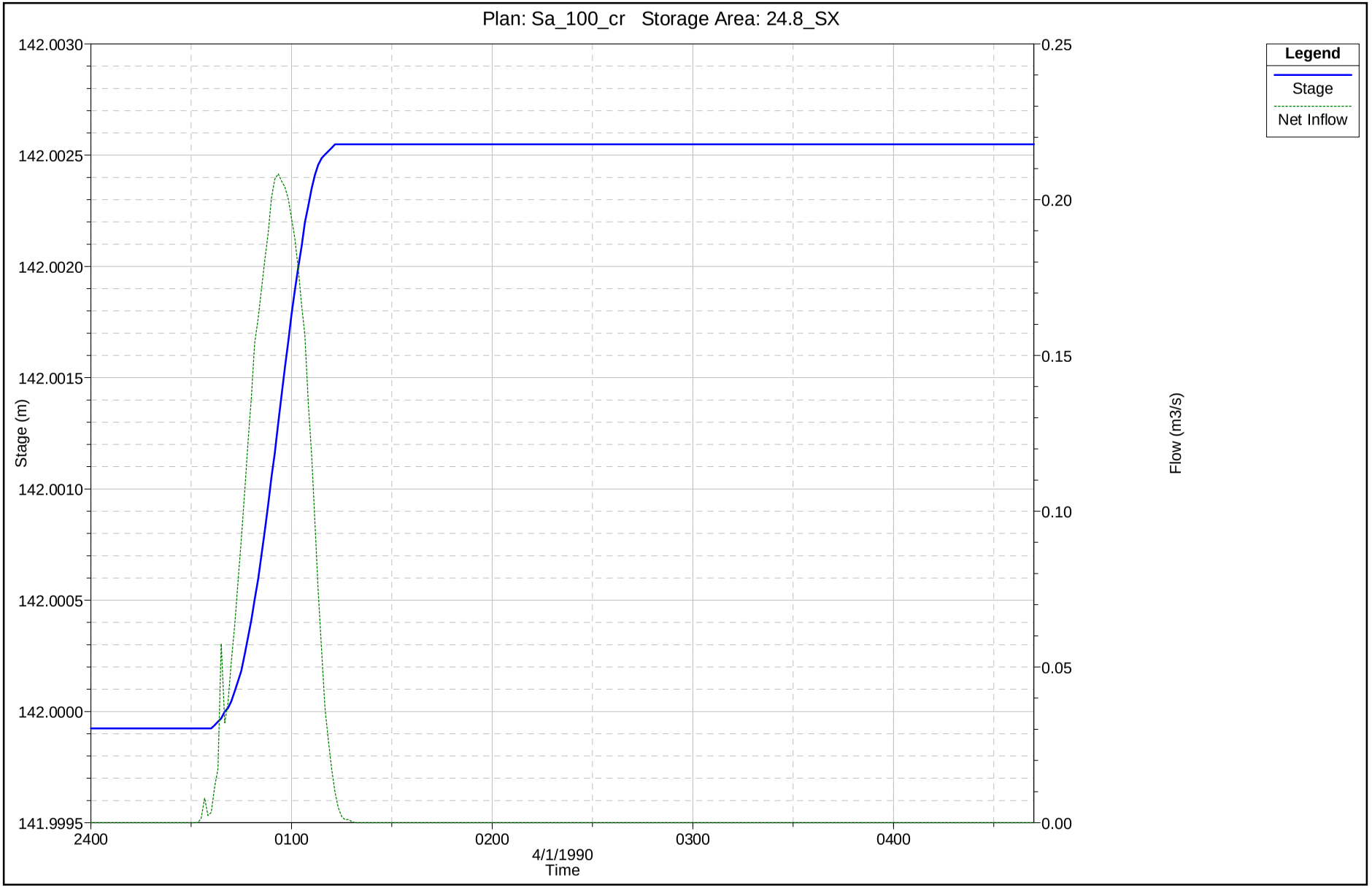

Plan: Sa_100_cr Storage Area: sx_7.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.014
142.012
142.010
142.008
142.006
142.004
142.002
142.000
141.998
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

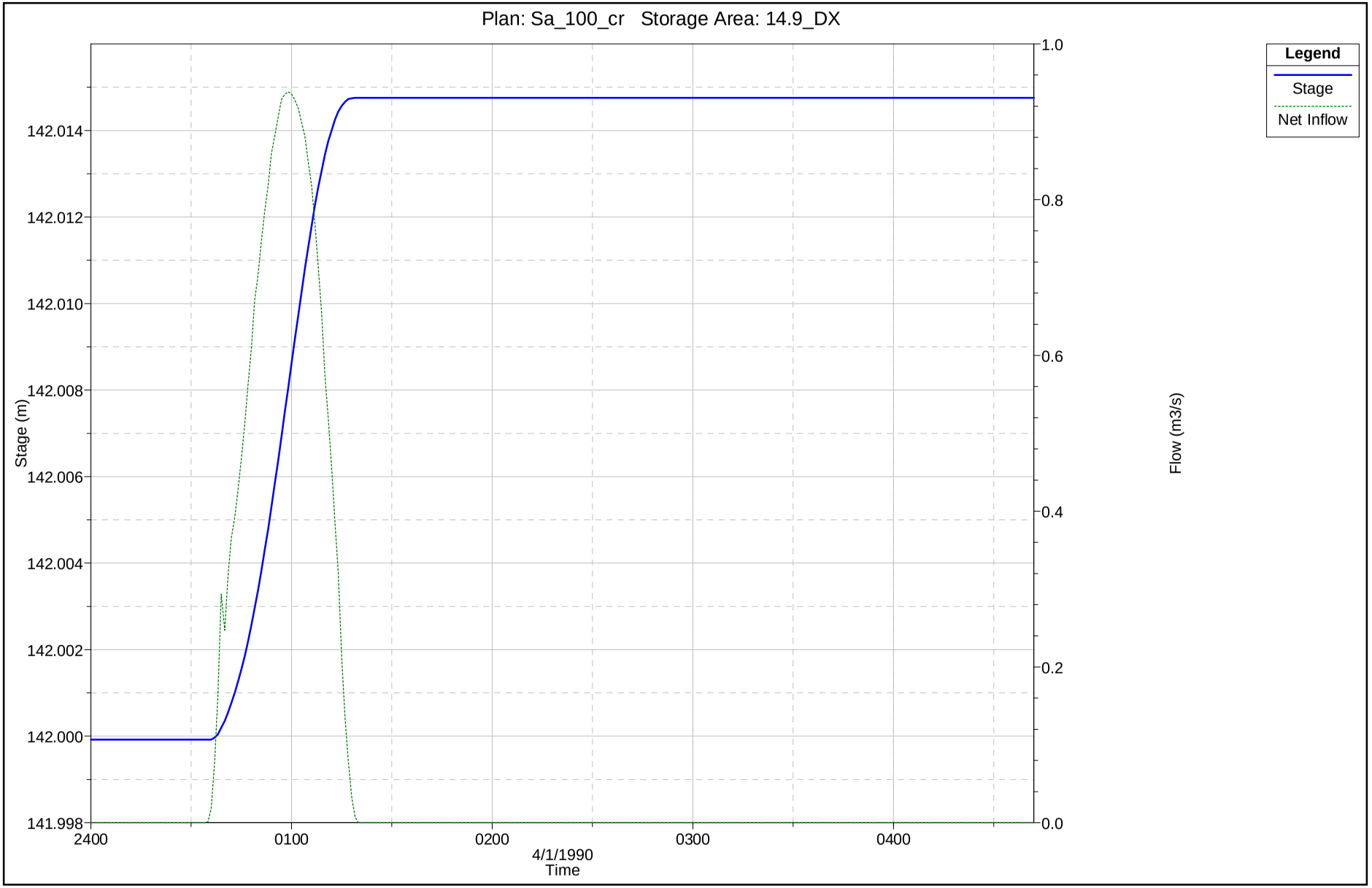

Plan: Sa_100_cr Storage Area: dx_10.8
Legend
Stage
Net Inflow
Stage (m)
142.0014
142.0012
142.0010
142.0008
142.0006
142.0004
142.0002
142.0000
141.9998
Flow (m3/s)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

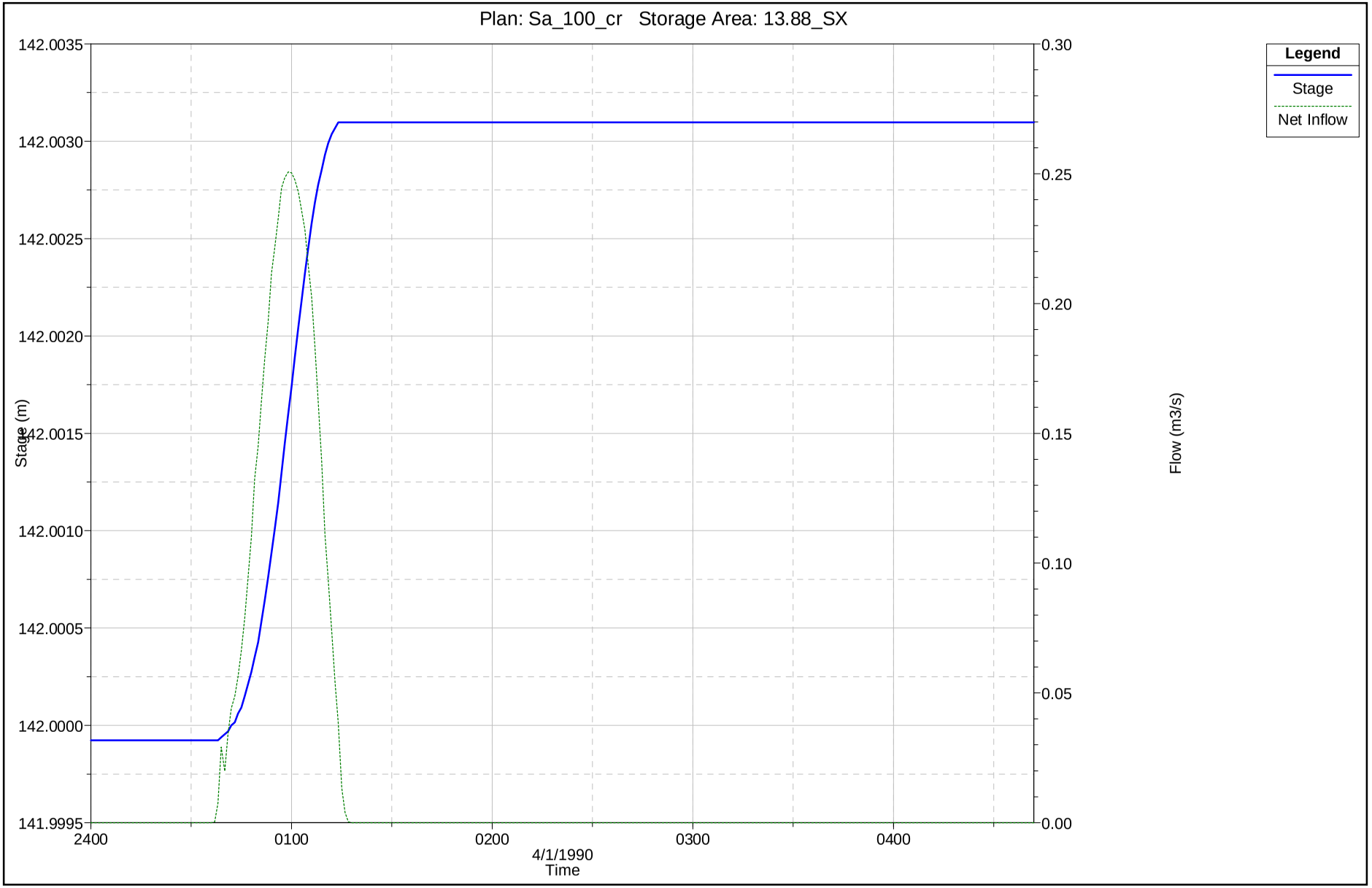

Plan: Sa_100_cr Storage Area: dx_7.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.5
142.4
142.3
142.2
142.1
142.0
141.9
14
12
10
8
6
4
2
0
2400
0100
0200
0300
0400
4/1/1990
Time

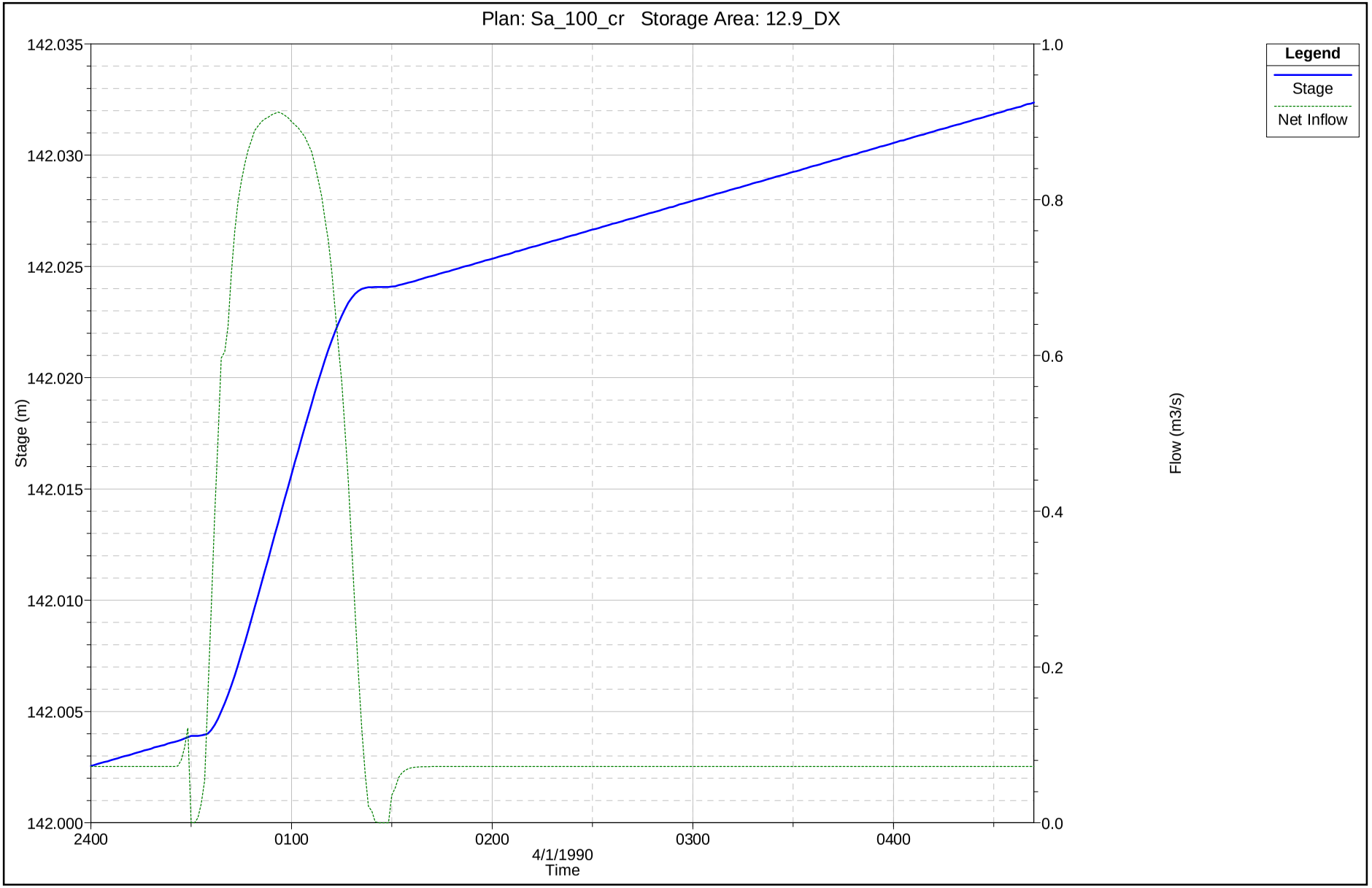

Plan: Sa_100_cr Storage Area: 33.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.05
142.04
142.03
142.02
142.01
142.00
141.99
2.5
2.0
1.5
1.0
0.5
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

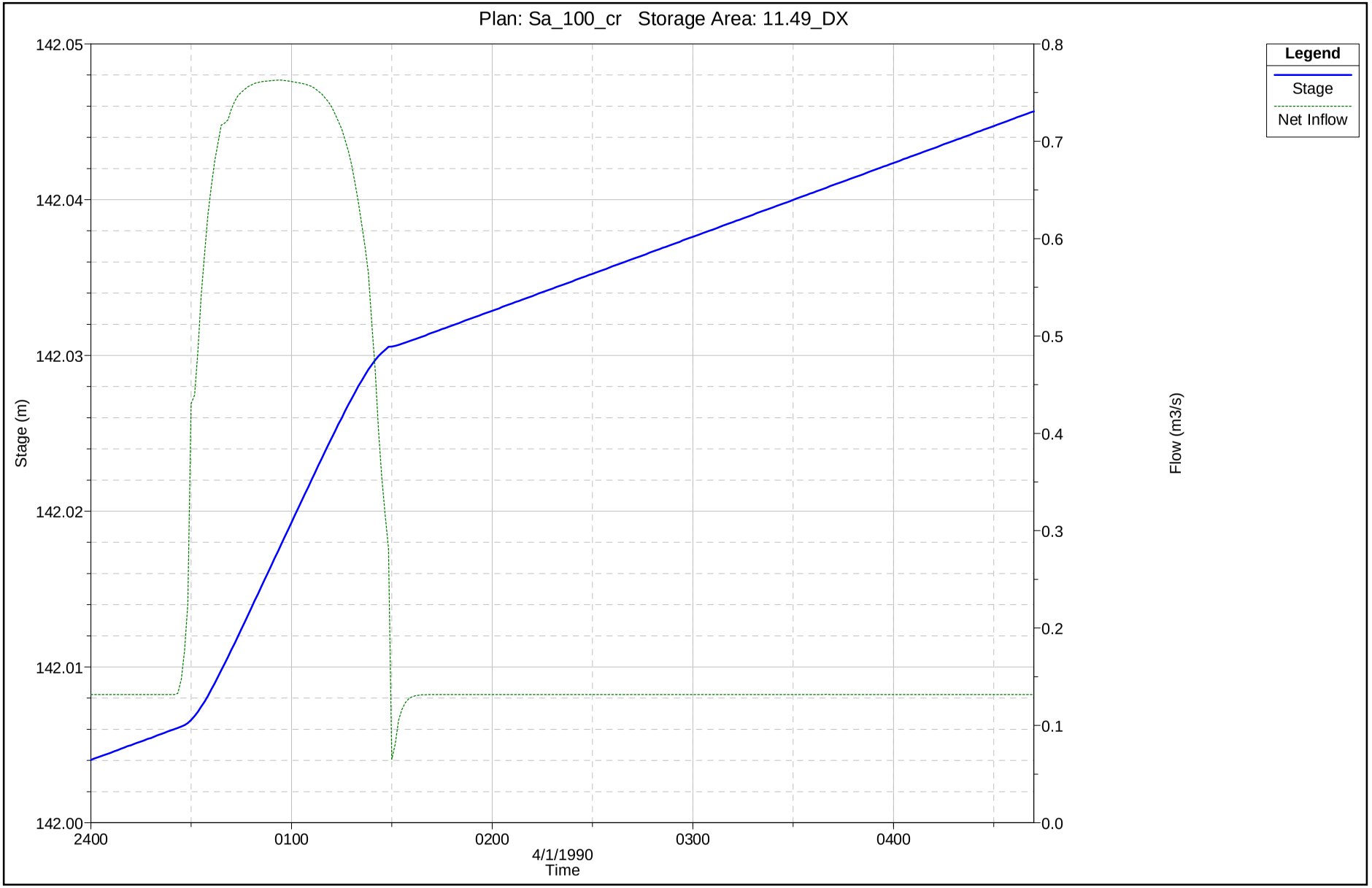

Plan: Sa_100_cr Storage Area: 33.8_SX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.016
142.014
142.012
142.010
142.008
142.006
142.004
142.002
142.000
141.998
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

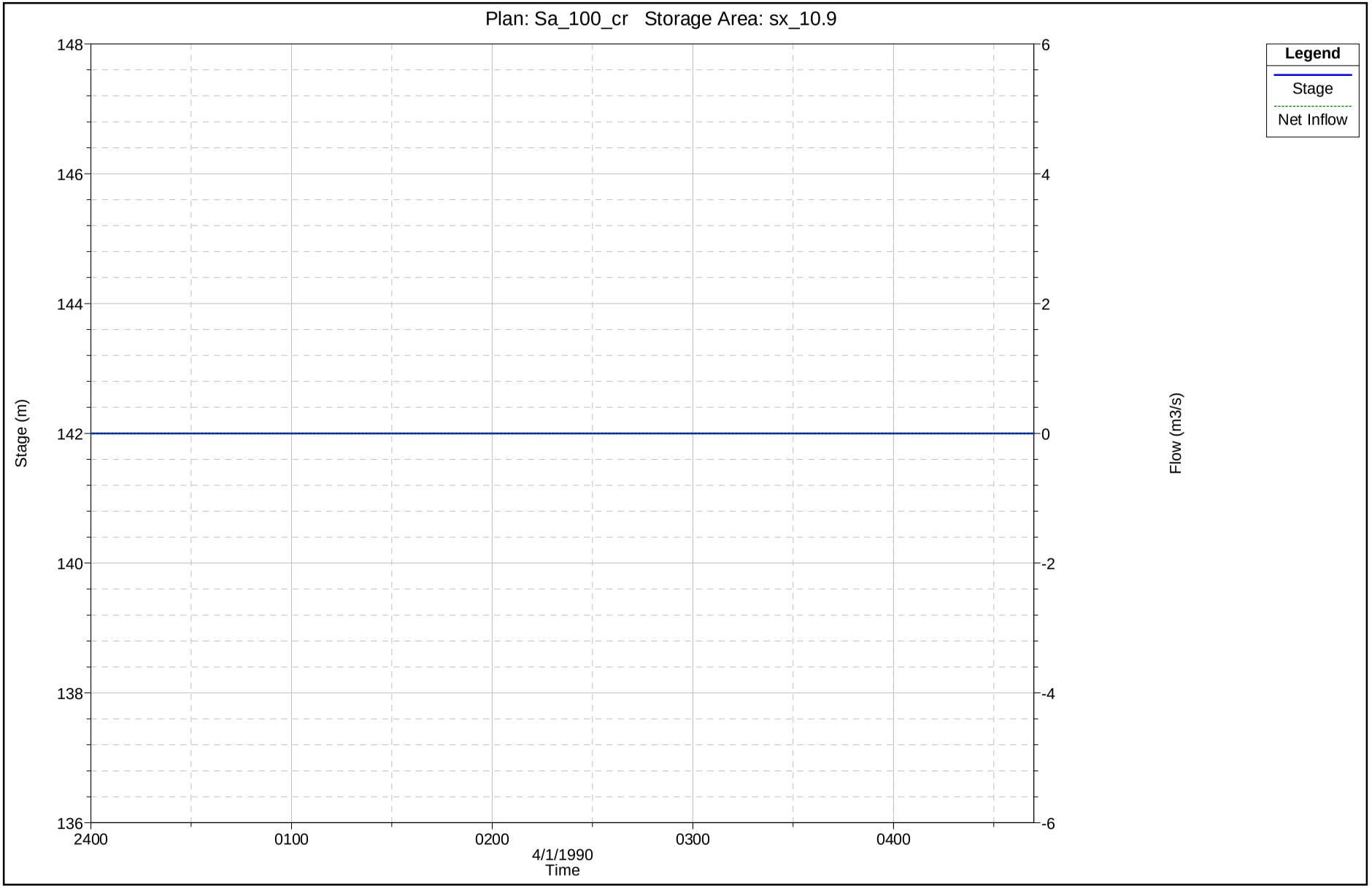

Plan: Sa_100_cr Storage Area: 24.8_SX
142.0030
142.0025
142.0020
142.0015
142.0010
142.0005
142.0000
141.9995
Stage (m)
0.25
0.20
0.15
0.10
0.05
0.00
Flow (m3/s)
2400
0100
0200
0300
0400
4/1/1990
Time
Legend
Stage
Net Inflow

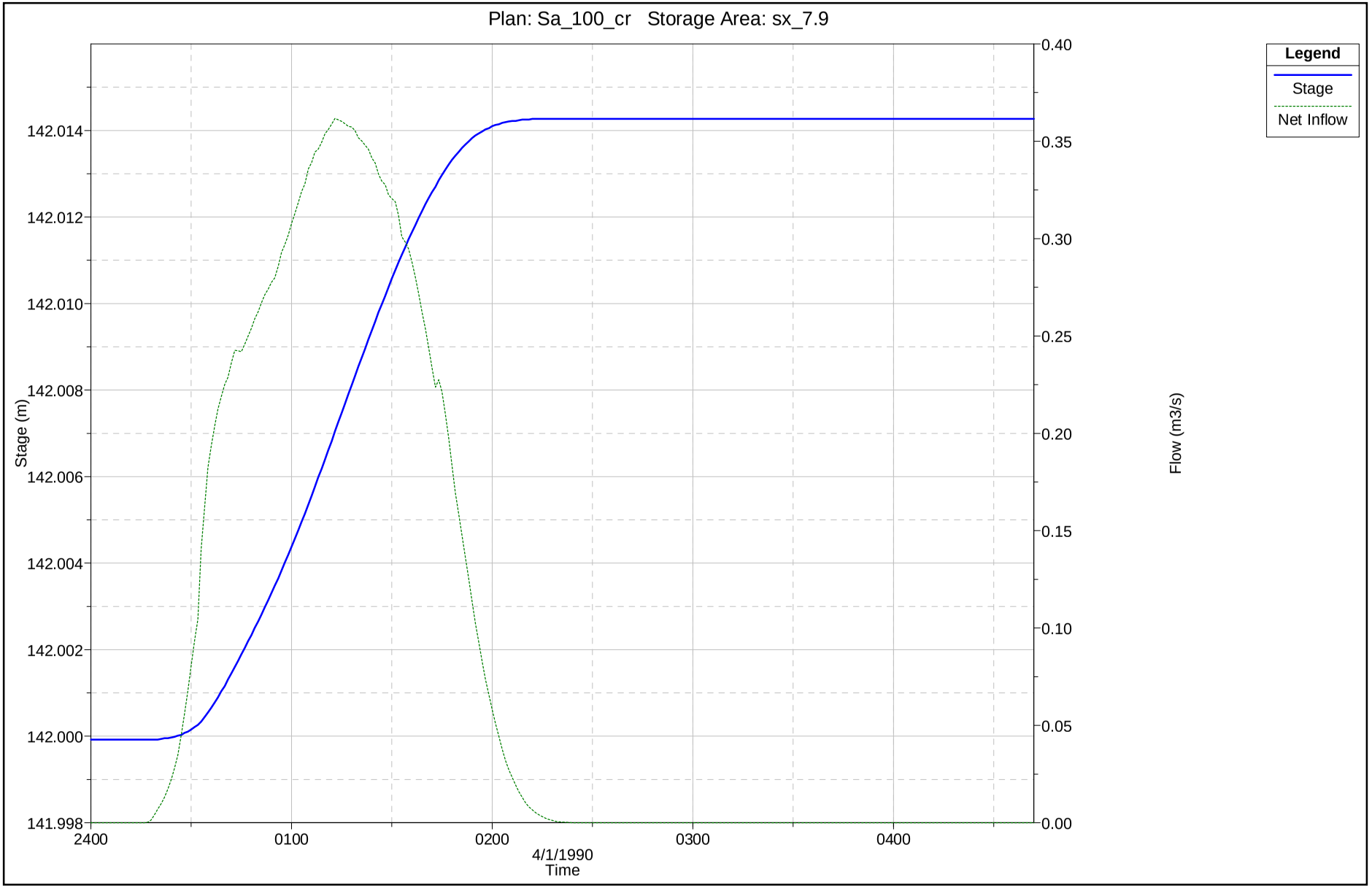

Plan: Sa_100_cr Storage Area: 14.9_DX
Legend
Stage
Net Inflow
Stage (m)
142.014
142.012
142.010
142.008
142.006
142.004
142.002
142.000
141.998
Flow (m3/s)
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

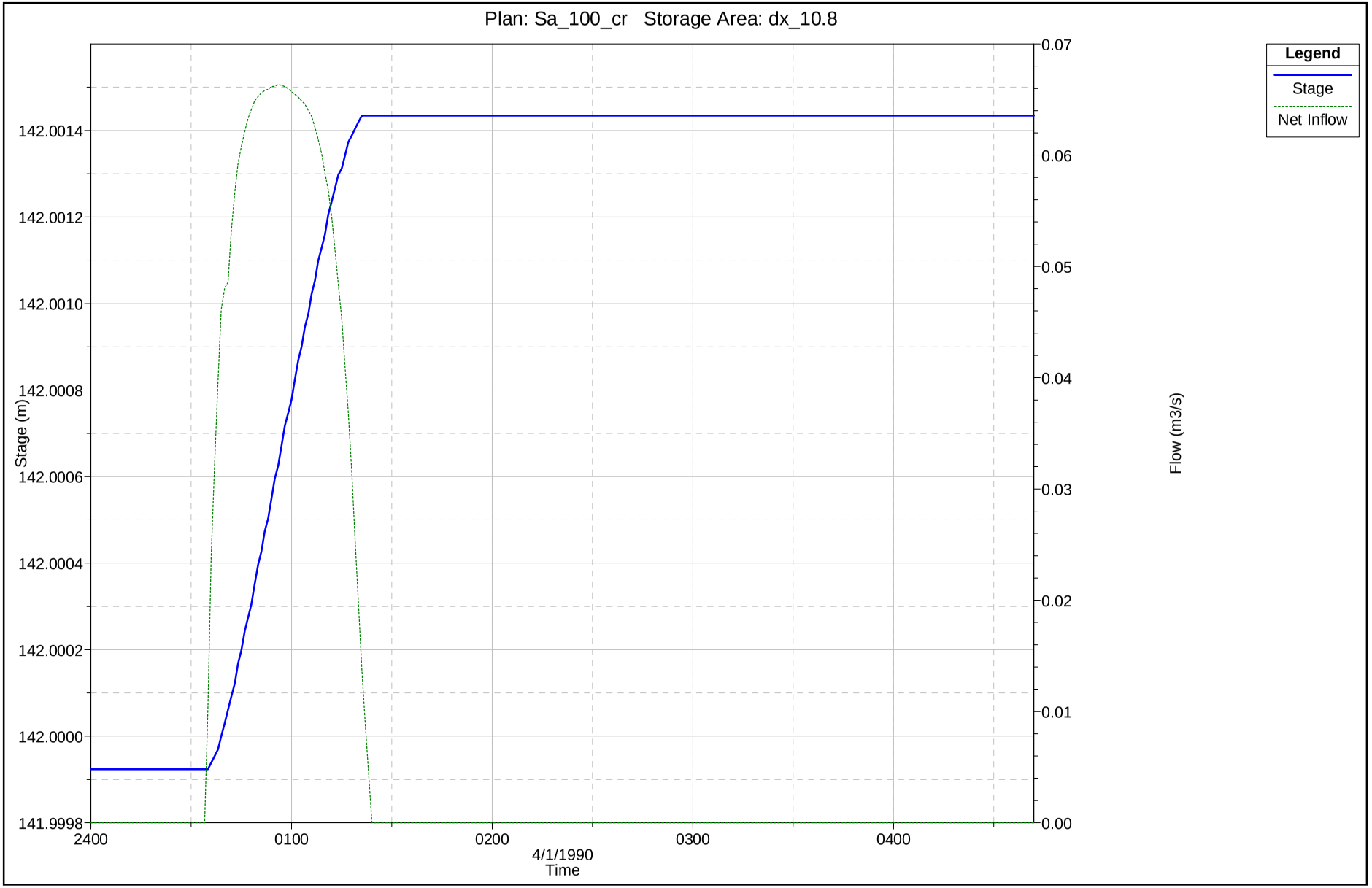

Plan: Sa_100_cr Storage Area: 13.88_SX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.0035
142.0030
142.0025
142.0020
142.0015
142.0010
142.0005
142.0000
141.9995
0.30
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

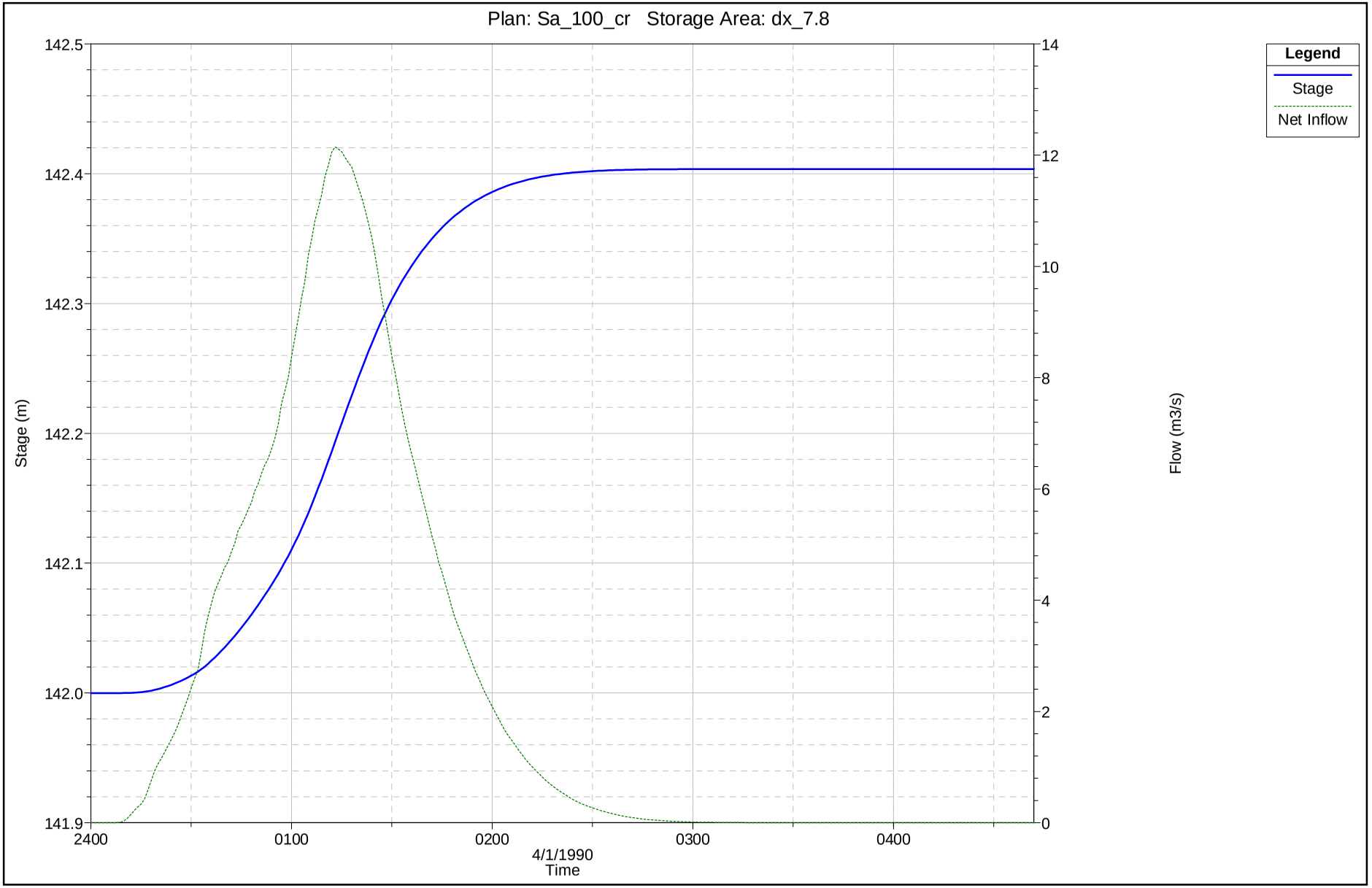

Plan: Sa_100_cr Storage Area: 12.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.035
142.030
142.025
142.020
142.015
142.010
142.005
142.000
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

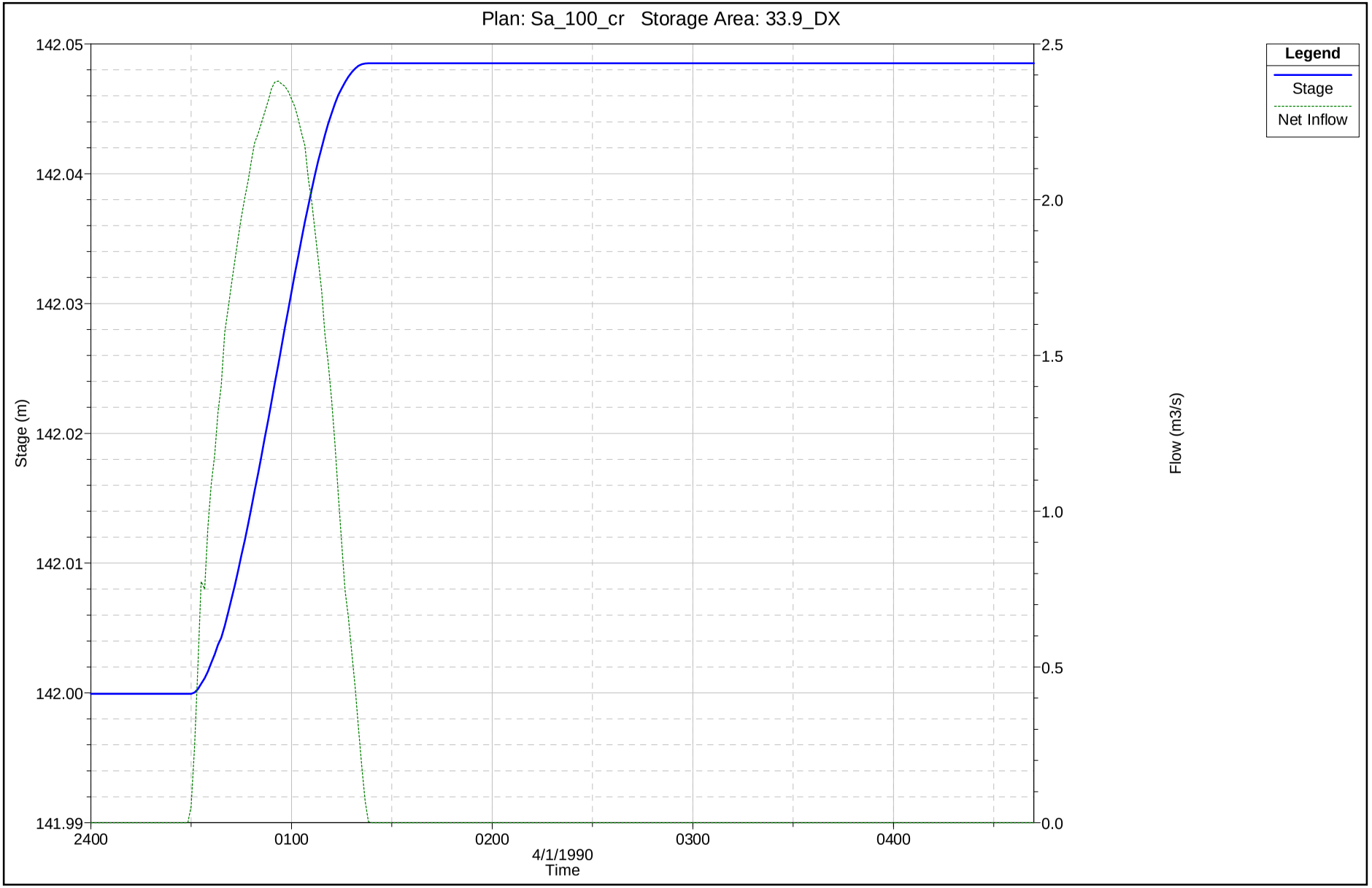

Plan: Sa_100_cr Storage Area: 11.49_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.05
142.04
142.03
142.02
142.01
142.00
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

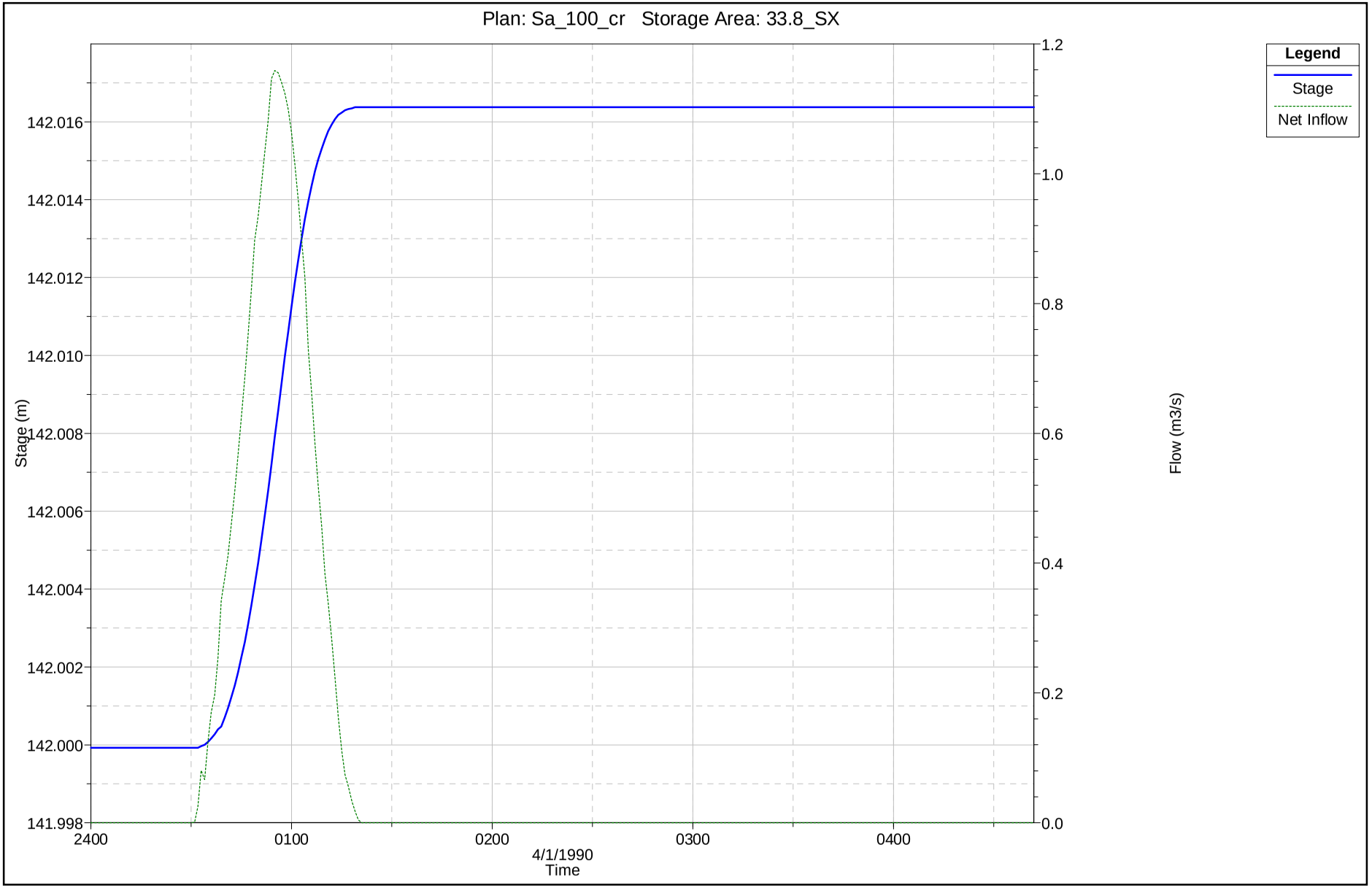

Plan: Sa_100_cr Storage Area: sx_10.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148
146
144
142
140
138
136
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
4/1/1990
Time

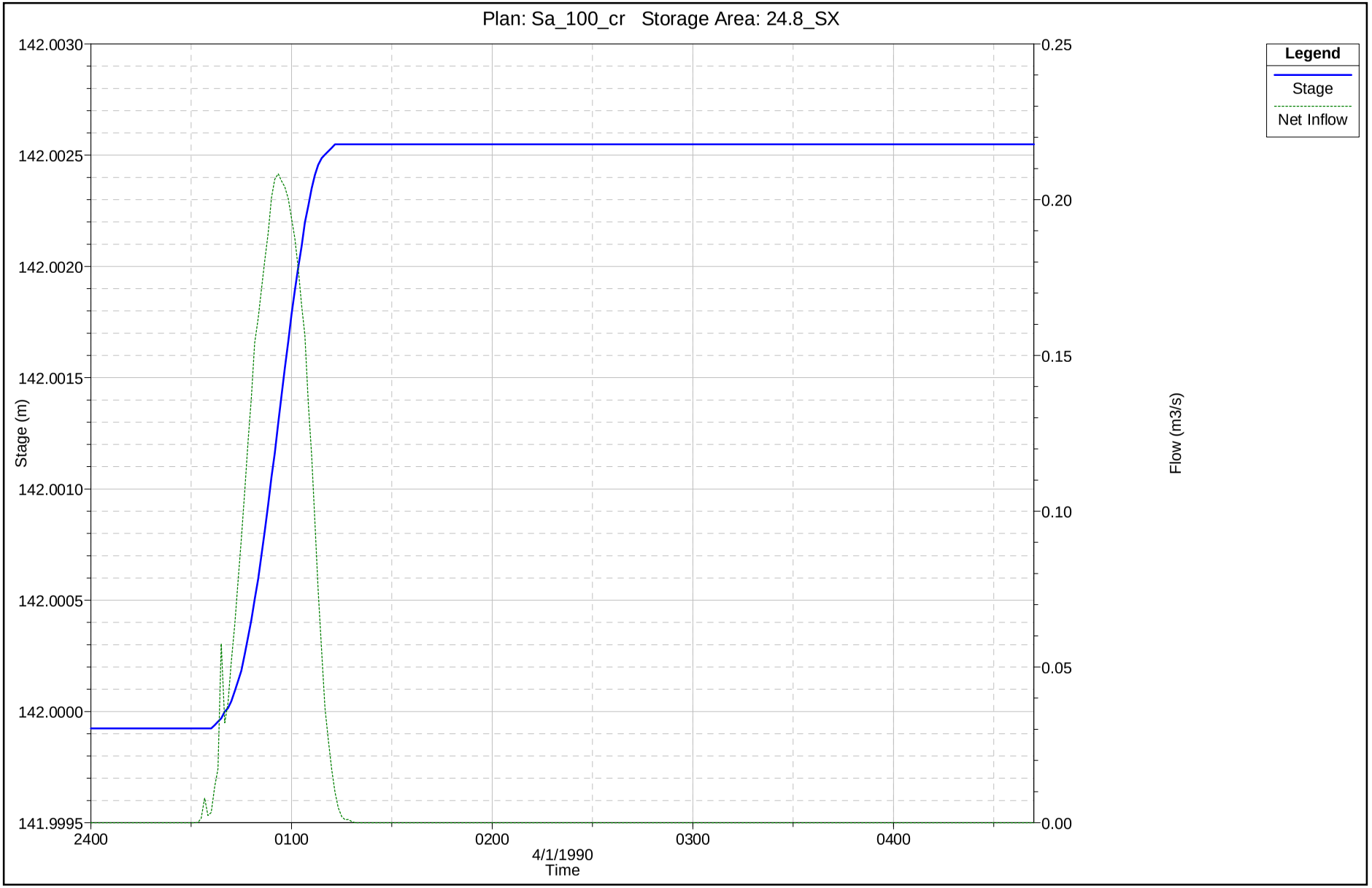

Plan: Sa_100_cr Storage Area: sx_7.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.014
142.012
142.010
142.008
142.006
142.004
142.002
142.000
141.998
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

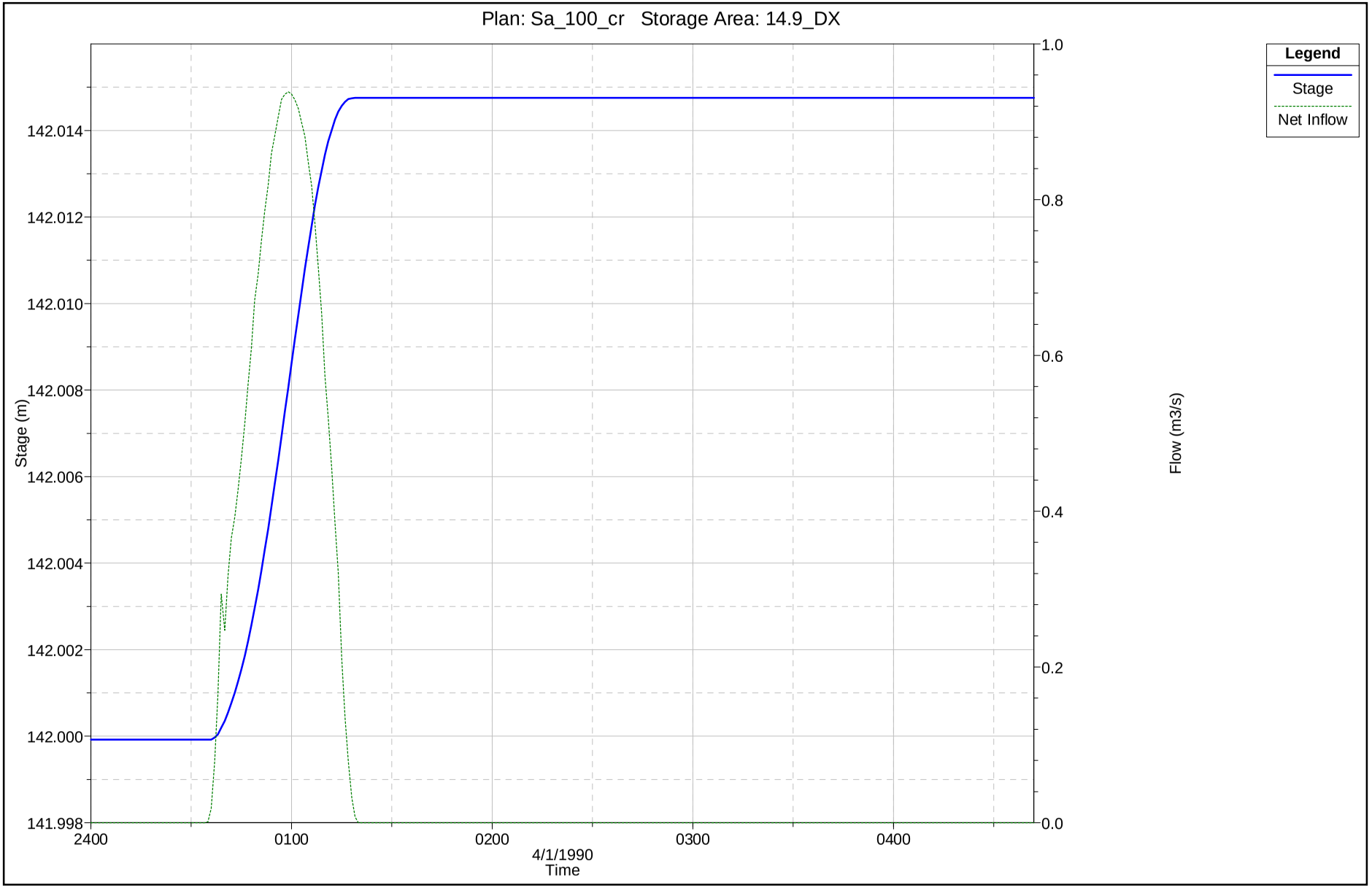

Plan: Sa_100_cr Storage Area: dx_10.8
Legend
Stage
Net Inflow
Stage (m)
142.0014
142.0012
142.0010
142.0008
142.0006
142.0004
142.0002
142.0000
141.9998
Flow (m3/s)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

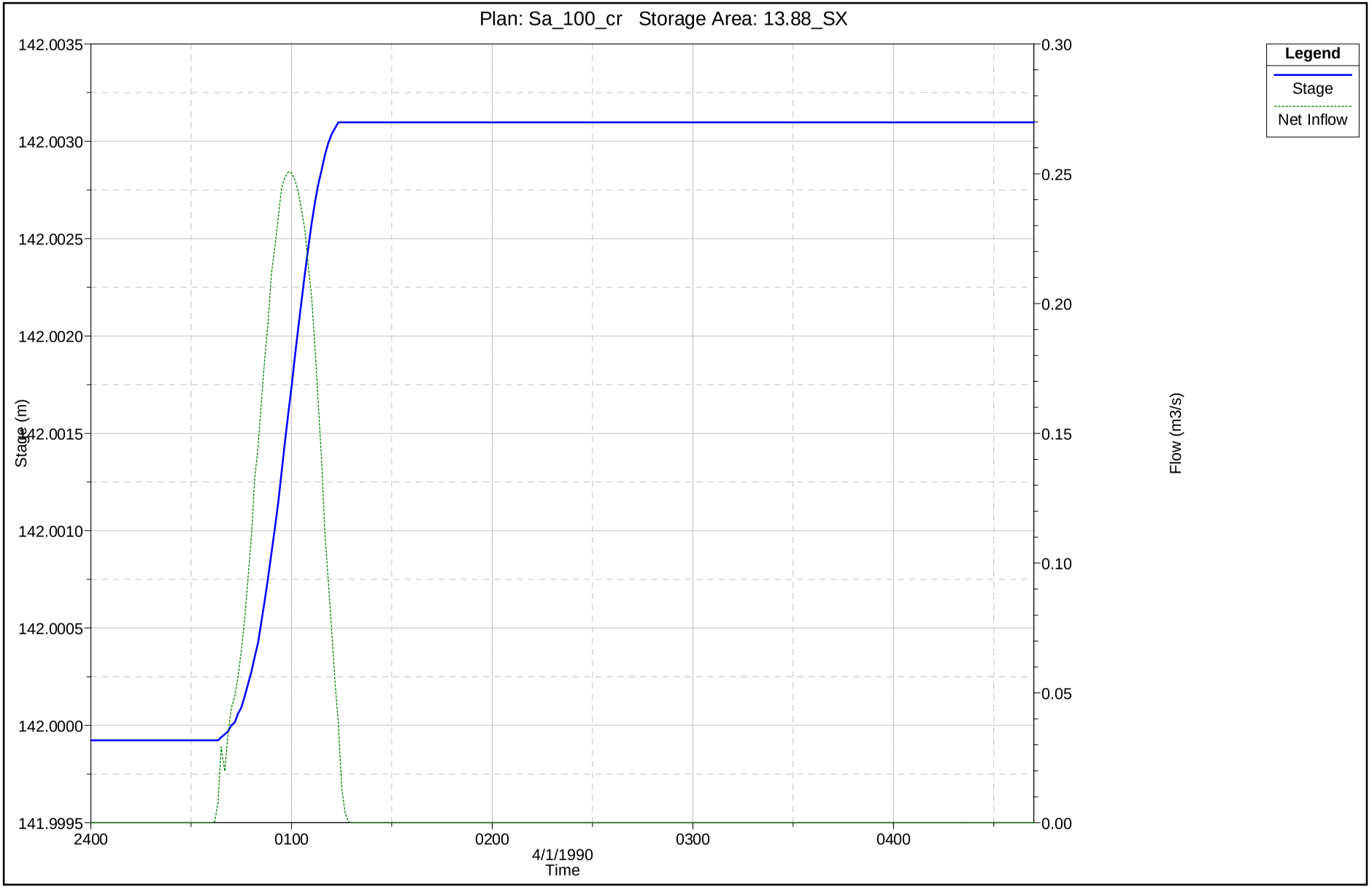

Plan: Sa_100_cr Storage Area: dx_7.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.5
142.4
142.3
142.2
142.1
142.0
141.9
14
12
10
8
6
4
2
0
2400
0100
0200
0300
0400
4/1/1990
Time

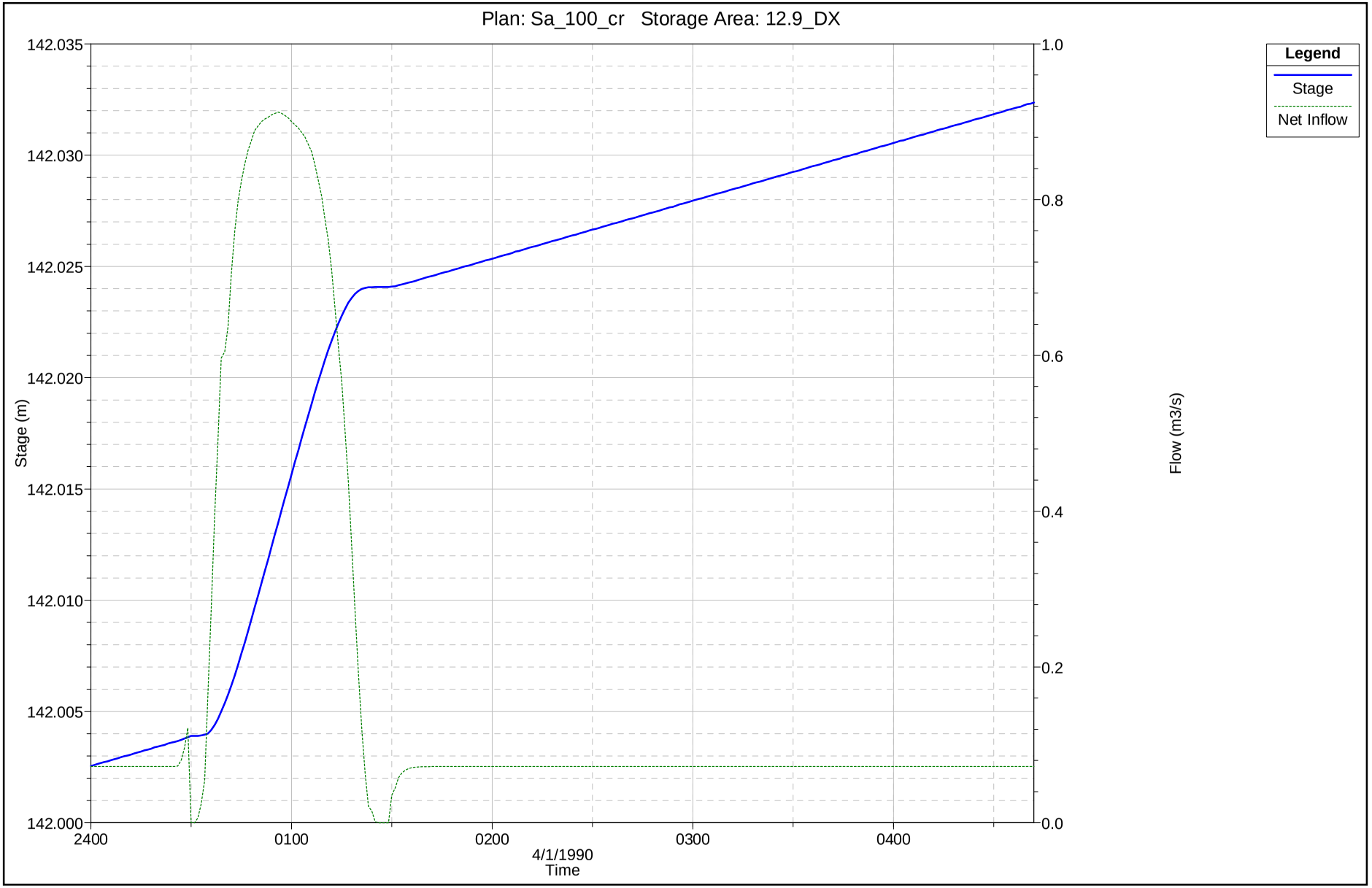

Plan: Sa_100_cr Storage Area: 33.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.05
142.04
142.03
142.02
142.01
142.00
141.99
2.5
2.0
1.5
1.0
0.5
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

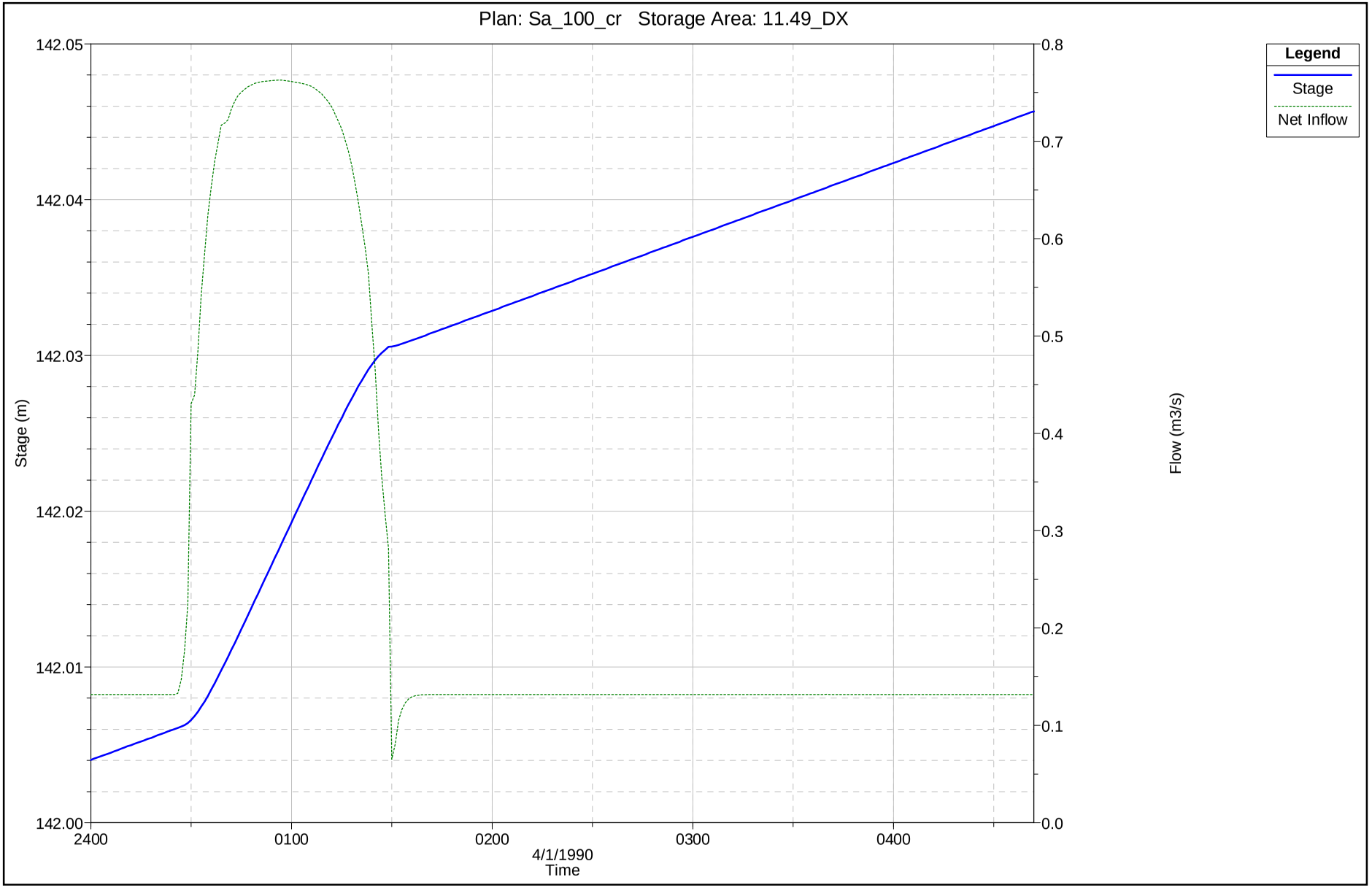

Plan: Sa_100_cr Storage Area: 33.8_SX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.016
142.014
142.012
142.010
142.008
142.006
142.004
142.002
142.000
141.998
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

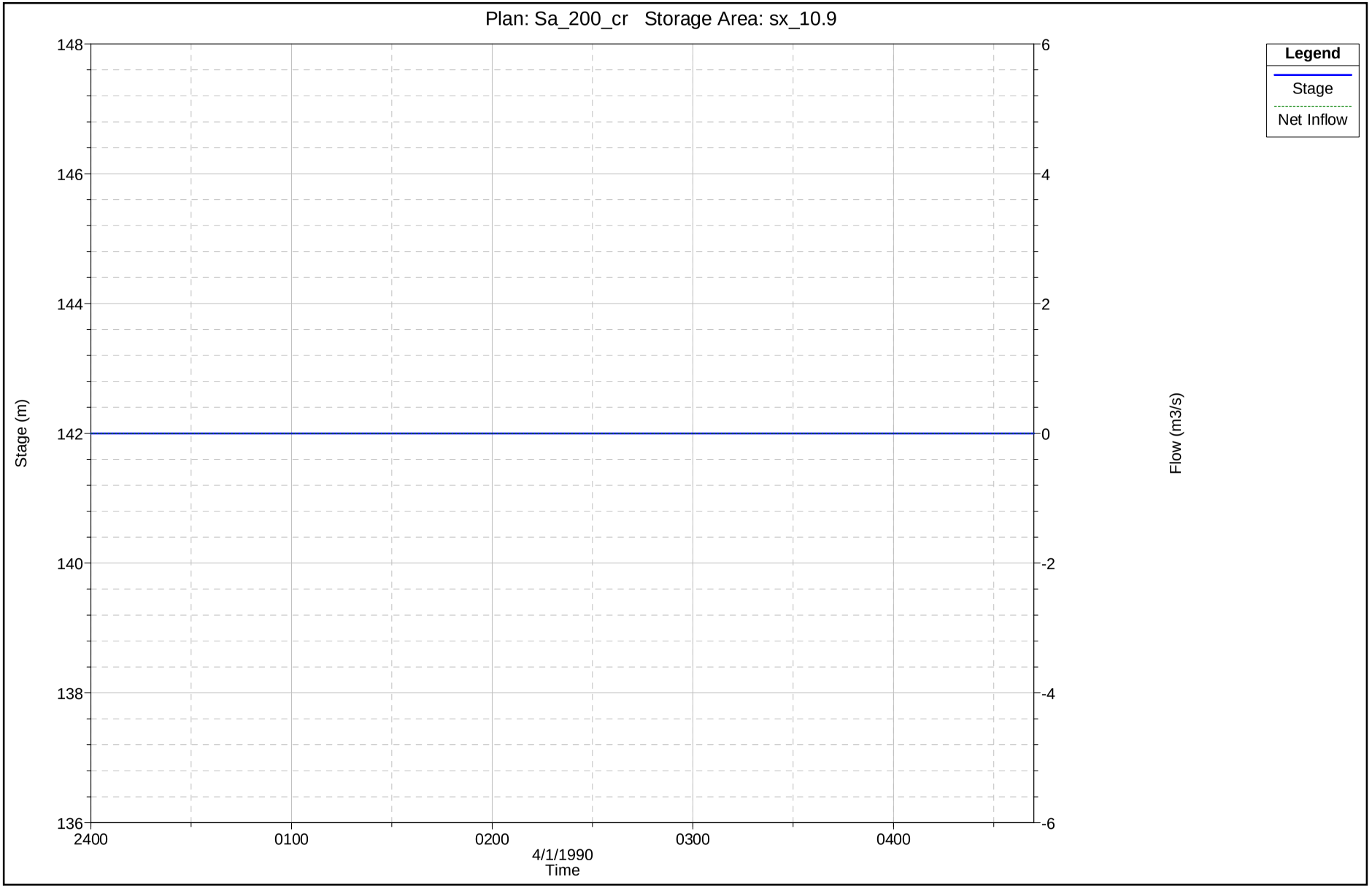

Plan: Sa_100_cr Storage Area: 24.8_SX
142.0030
142.0025
142.0020
142.0015
142.0010
142.0005
142.0000
141.9995
Stage (m)
0.25
0.20
0.15
0.10
0.05
0.00
Flow (m3/s)
2400
0100
0200
0300
0400
4/1/1990
Time
Legend
Stage
Net Inflow

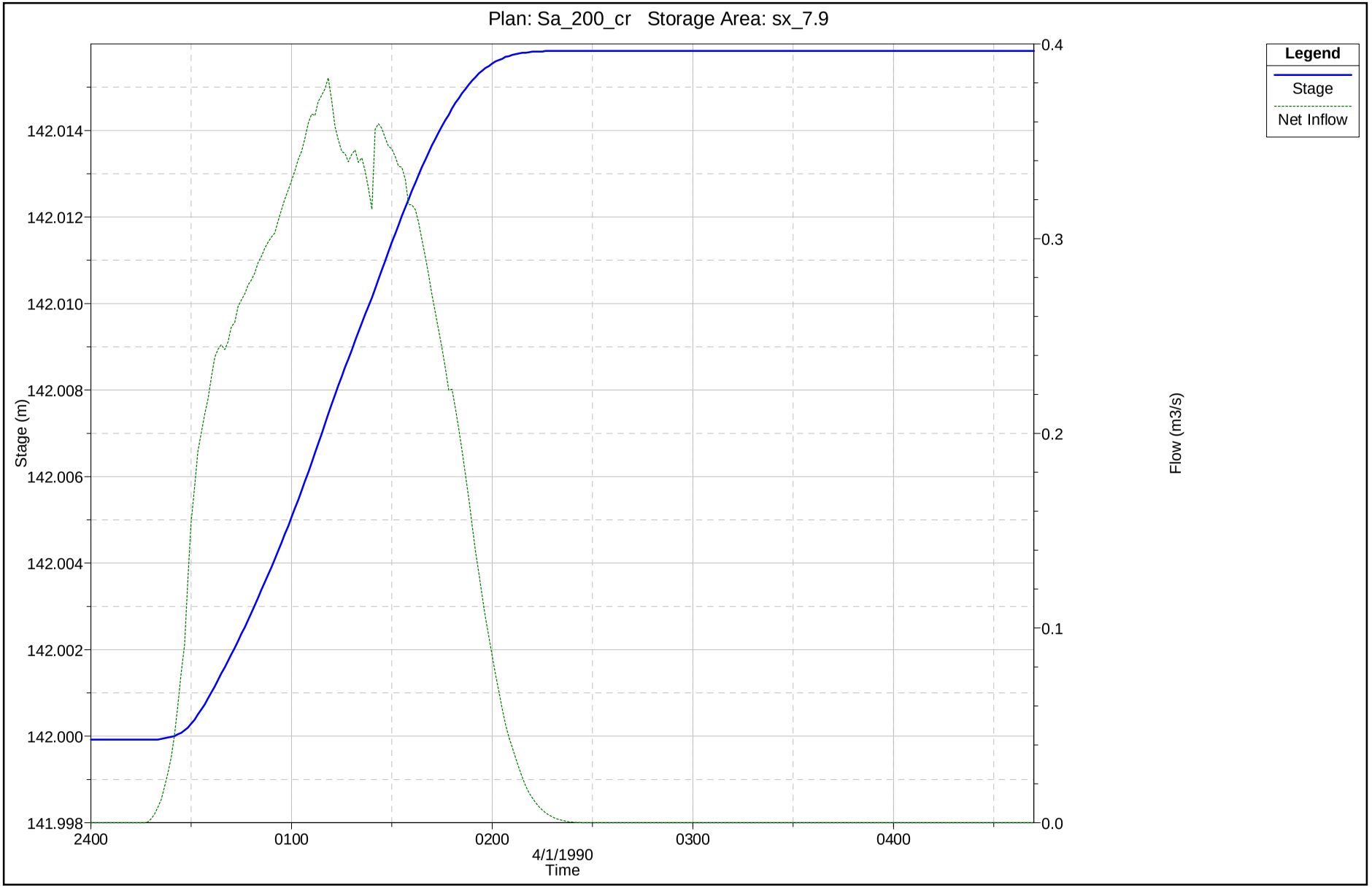

Plan: Sa_100_cr Storage Area: 14.9_DX
Legend
Stage
Net Inflow
Stage (m)
142.014
142.012
142.010
142.008
142.006
142.004
142.002
142.000
141.998
Flow (m3/s)
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

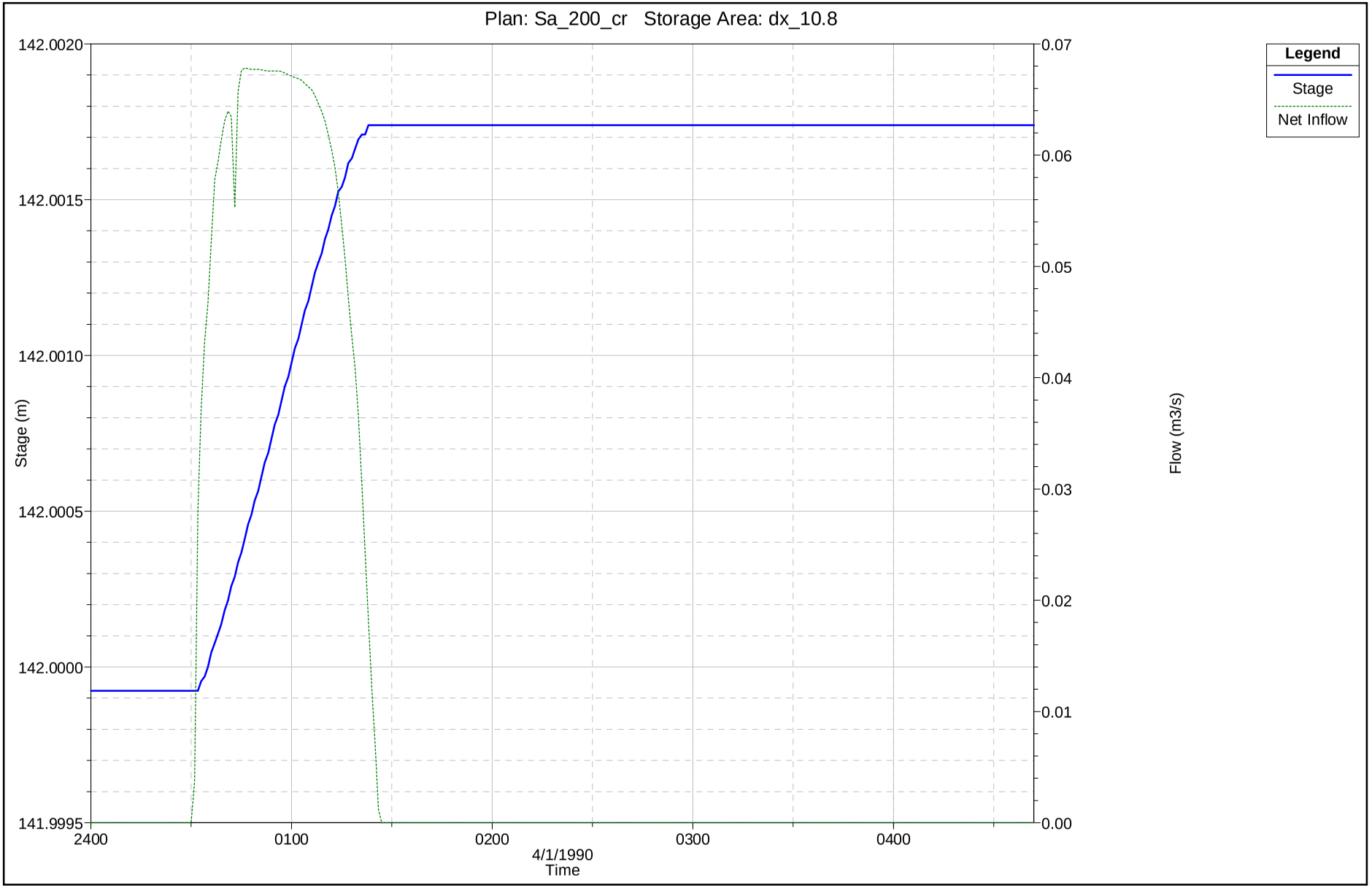

Plan: Sa_100_cr Storage Area: 13.88_SX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.0035
142.0030
142.0025
142.0020
142.0015
142.0010
142.0005
142.0000
141.9995
0.30
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

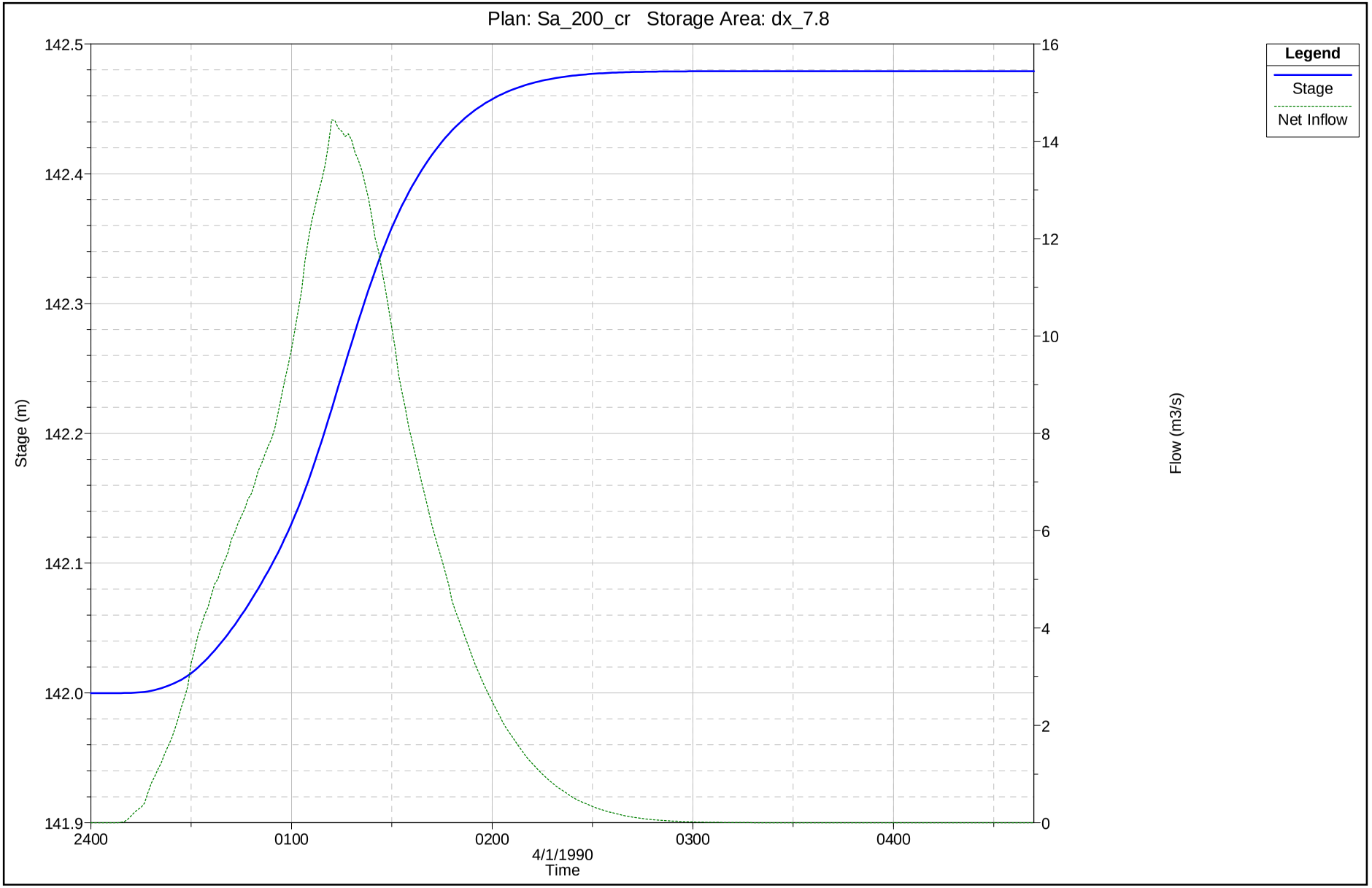

Plan: Sa_100_cr Storage Area: 12.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.035
142.030
142.025
142.020
142.015
142.010
142.005
142.000
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

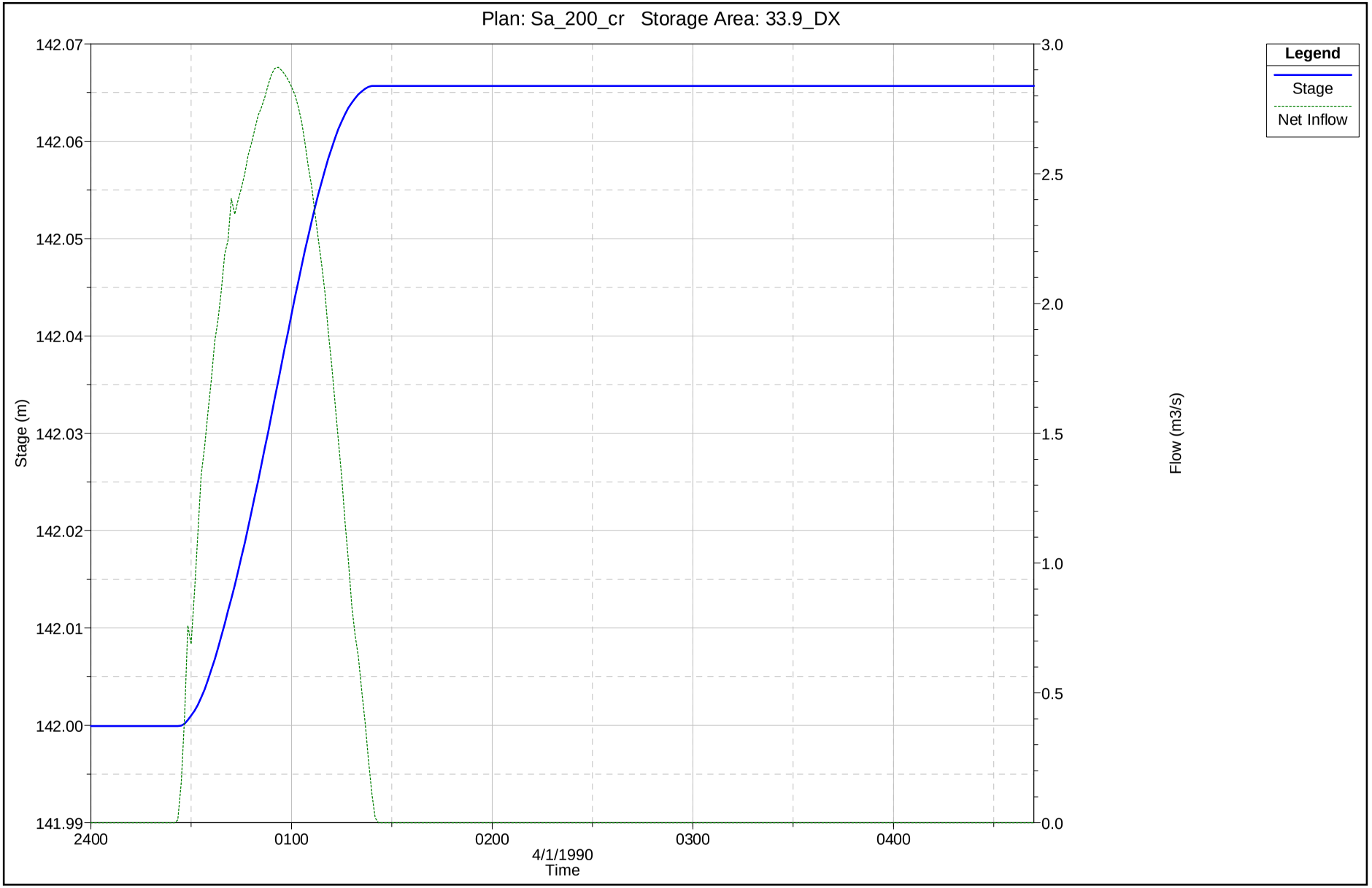

Plan: Sa_100_cr Storage Area: 11.49_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.05
142.04
142.03
142.02
142.01
142.00
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

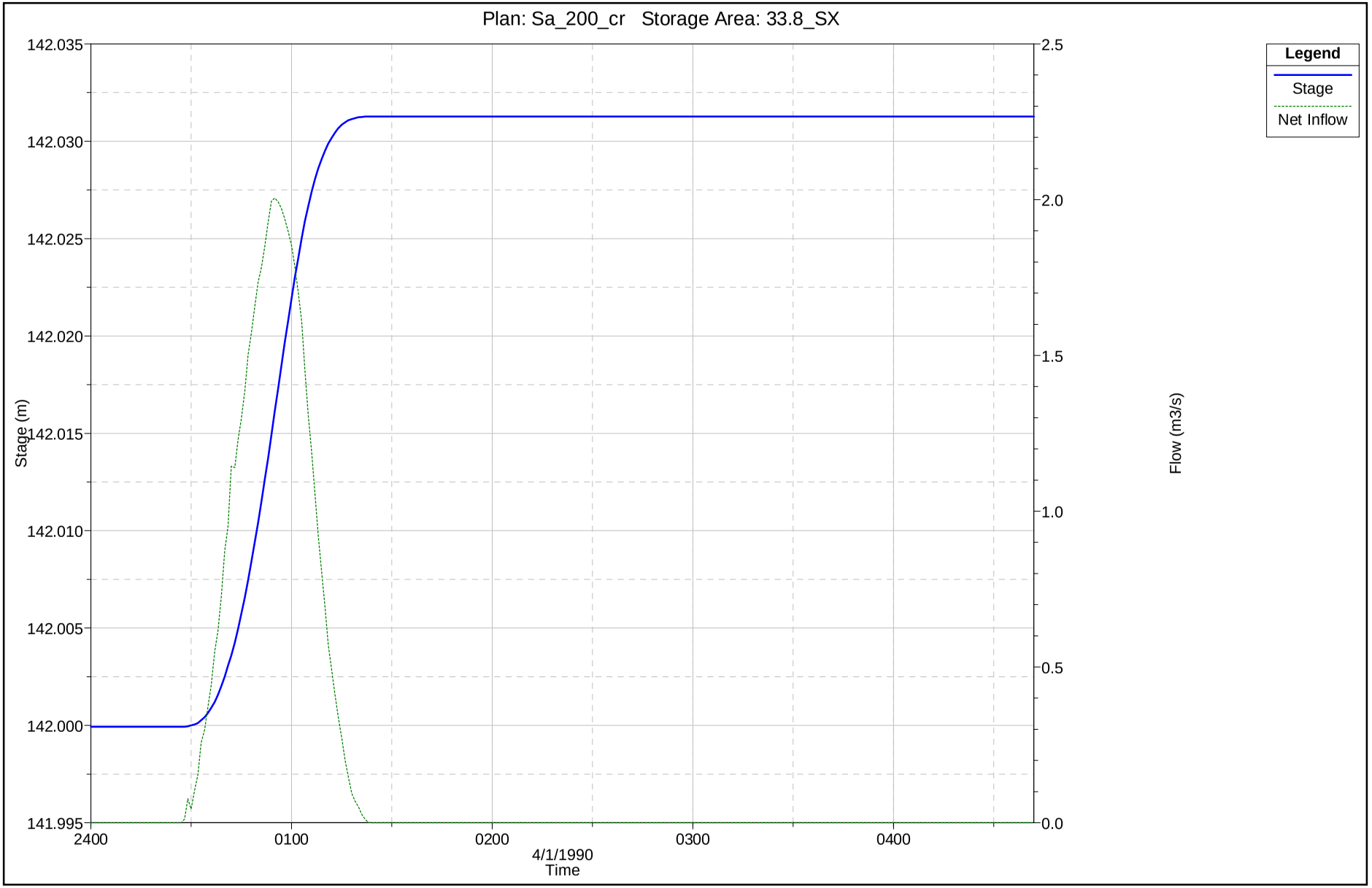

Plan: Sa_200_cr Storage Area: sx_10.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148
146
144
142
140
138
136
6
4
2
0
-2
-4
-6
2400
0100
0200
0300
0400
4/1/1990
Time

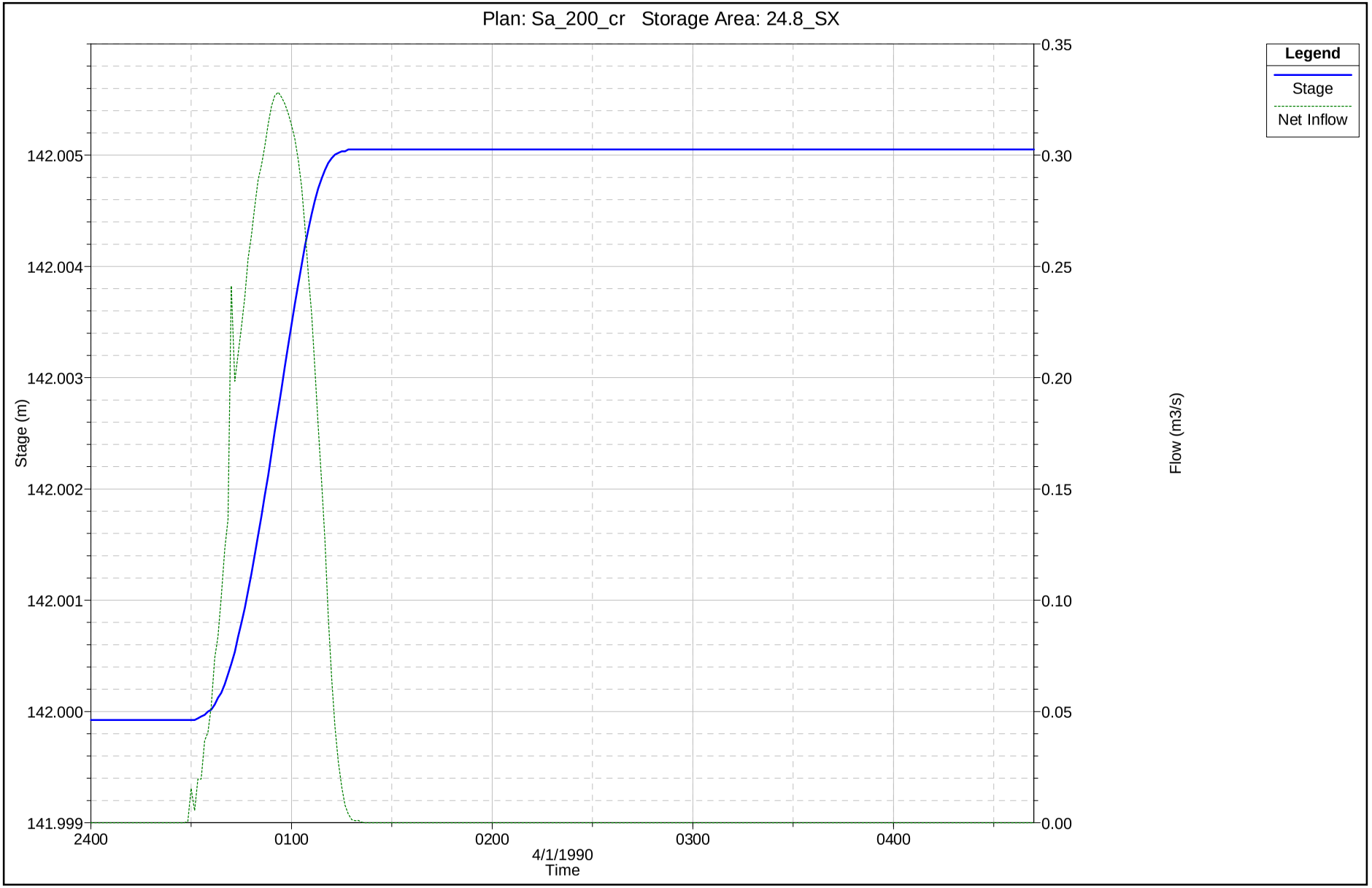

Plan: Sa_200_cr Storage Area: sx_7.9
Legend
Stage
Net Inflow
Stage (m)
142.014
142.012
142.010
142.008
142.006
142.004
142.002
142.000
141.998
Flow (m3/s)
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

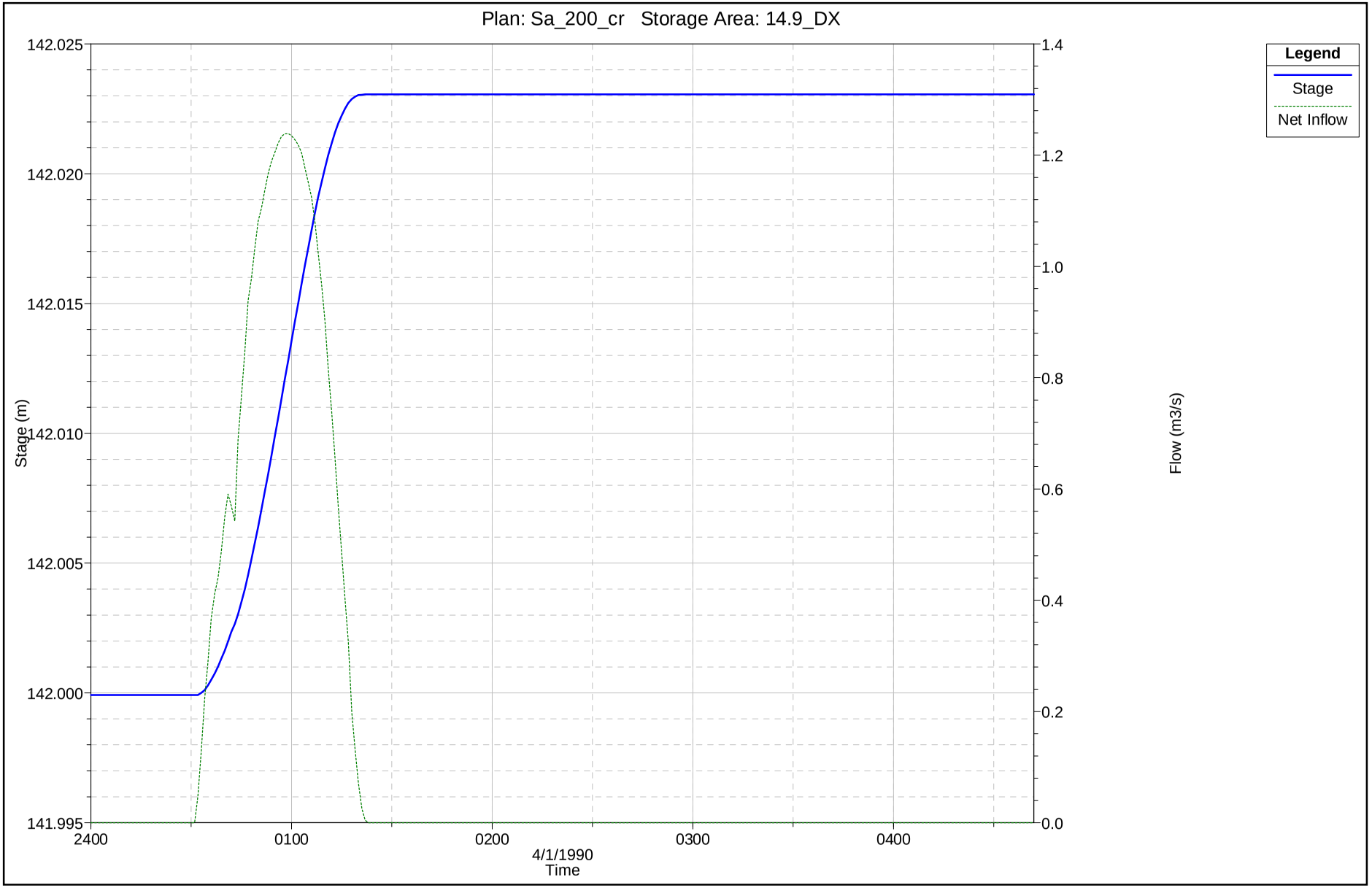

Plan: Sa_200_cr Storage Area: dx_10.8
142.0020
142.0015
142.0010
142.0005
142.0000
141.9995
Stage (m)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
Flow (m3/s)
2400
0100
0200
0300
0400
4/1/1990
Time
Legend
Stage
Net Inflow

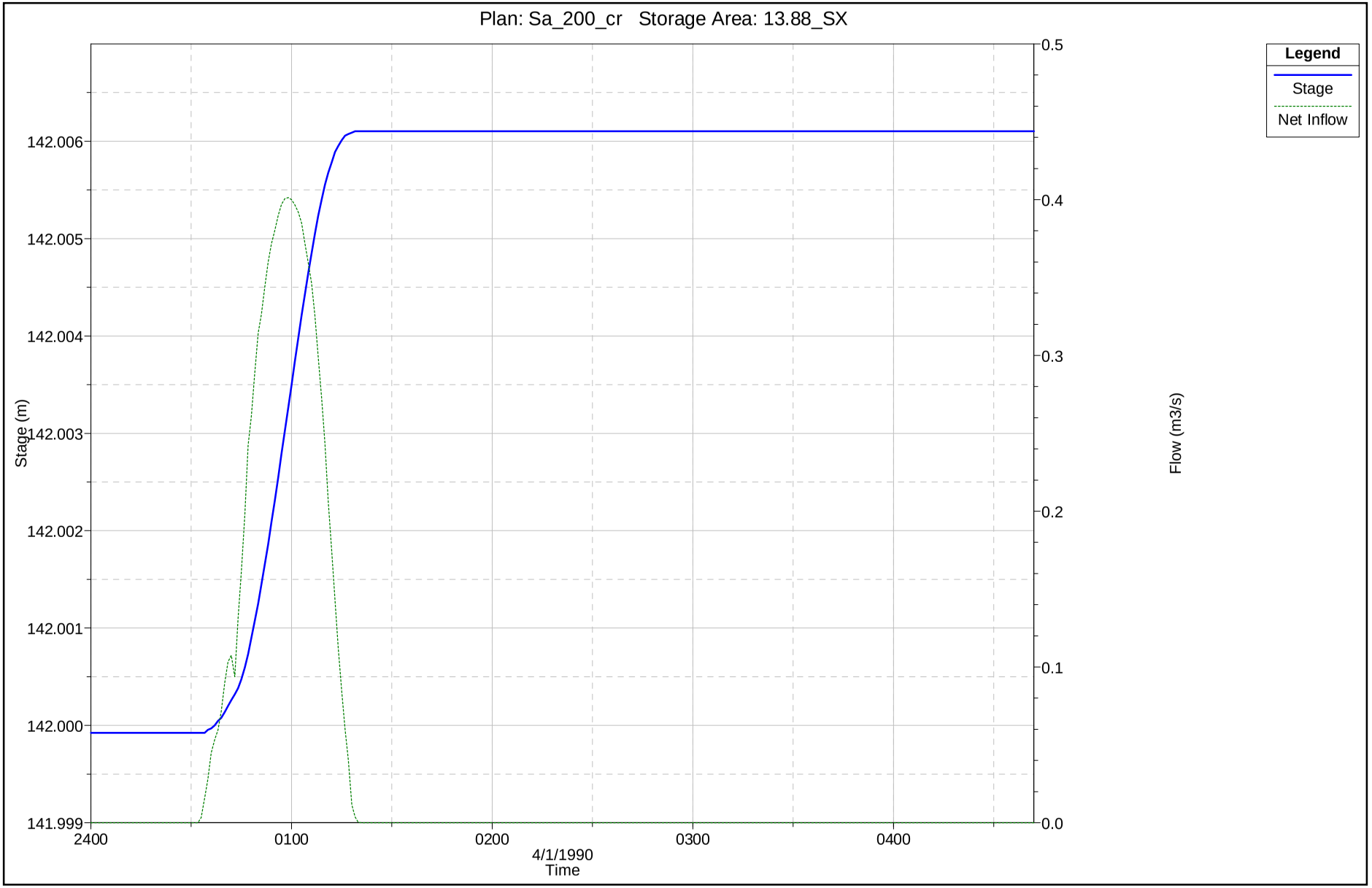

Plan: Sa_200_cr Storage Area: dx_7.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.5
142.4
142.3
142.2
142.1
142.0
141.9
16
14
12
10
8
6
4
2
0
2400
0100
0200
0300
0400
4/1/1990
Time

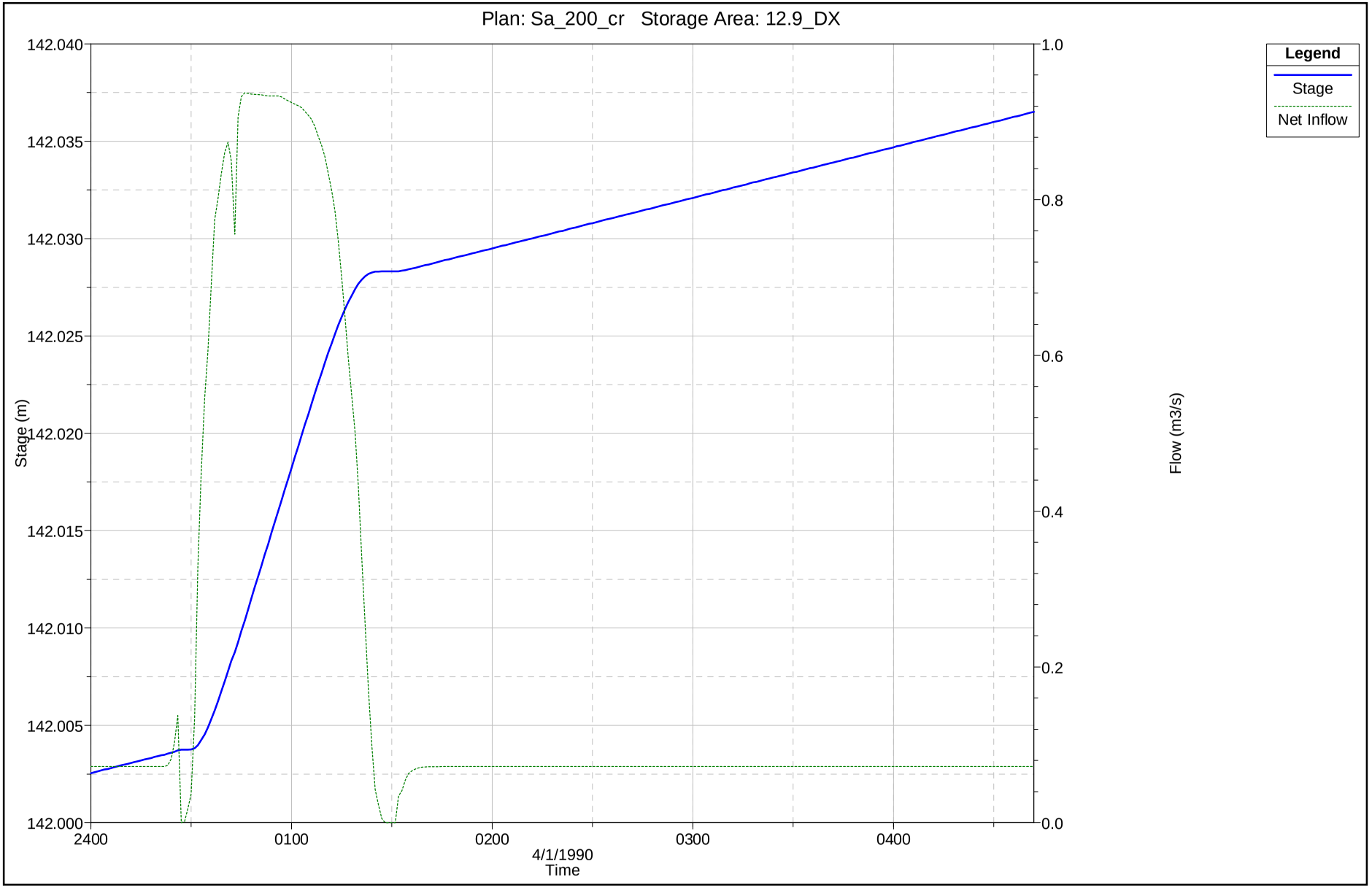

Plan: Sa_200_cr Storage Area: 33.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.07
142.06
142.05
142.04
142.03
142.02
142.01
142.00
141.99
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

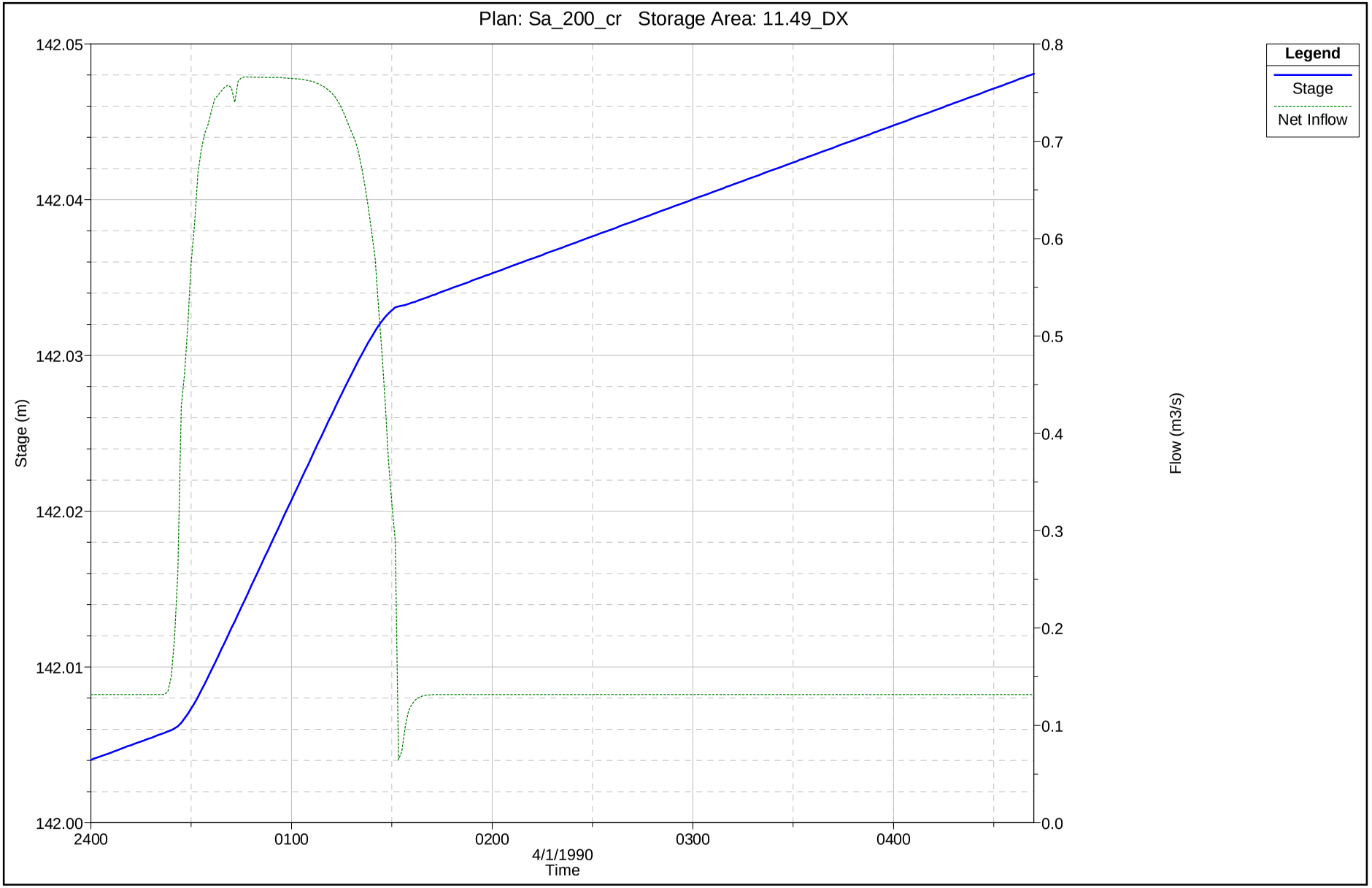

Plan: Sa_200_cr Storage Area: 33.8_SX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.035
142.030
142.025
142.020
142.015
142.010
142.005
142.000
141.995
2.5
2.0
1.5
1.0
0.5
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

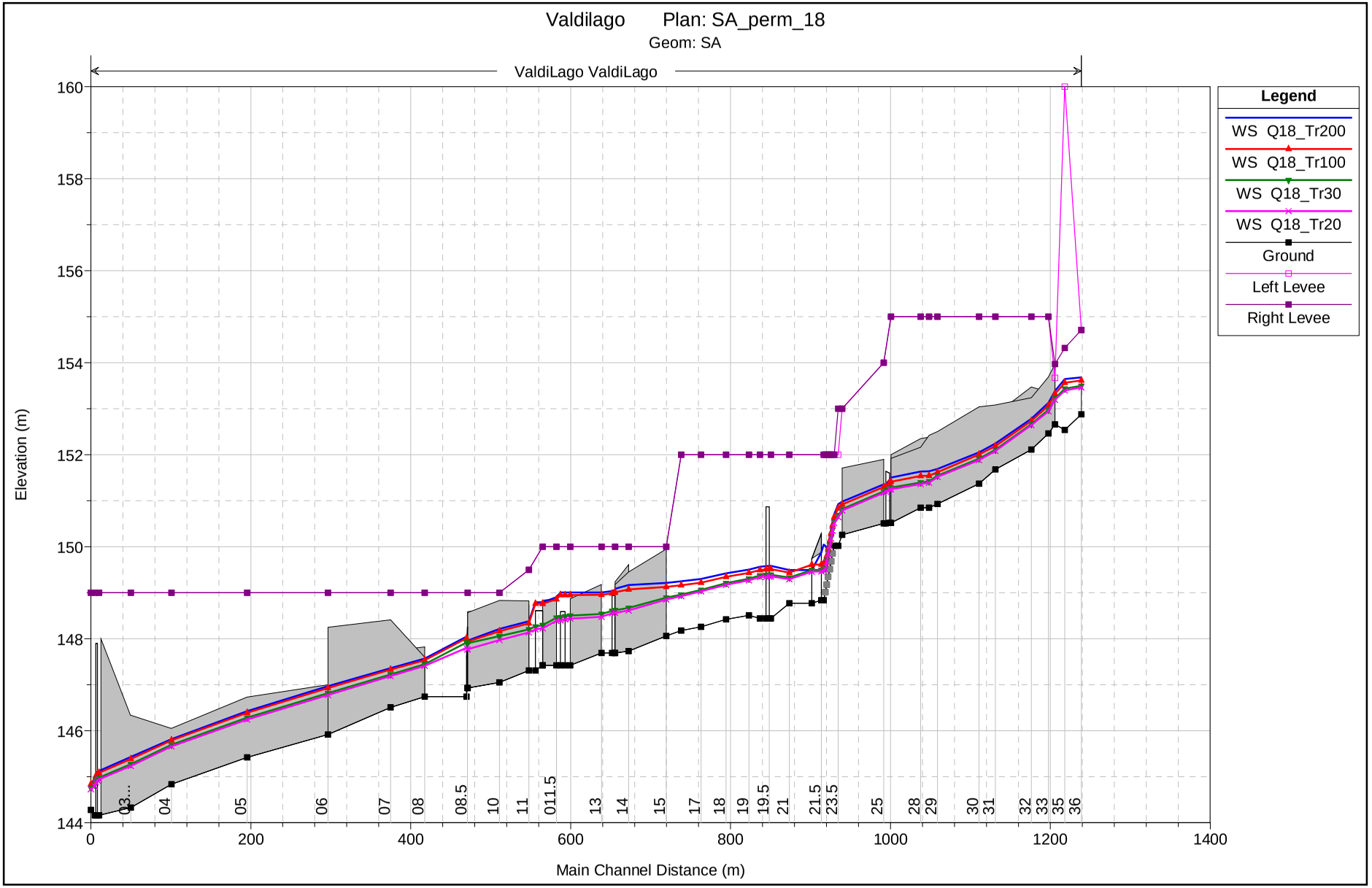

Plan: Sa_200_cr Storage Area: 24.8_SX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.005
142.004
142.003
142.002
142.001
142.000
141.999
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
2400
0100
0200
0300
0400
4/1/1990
Time

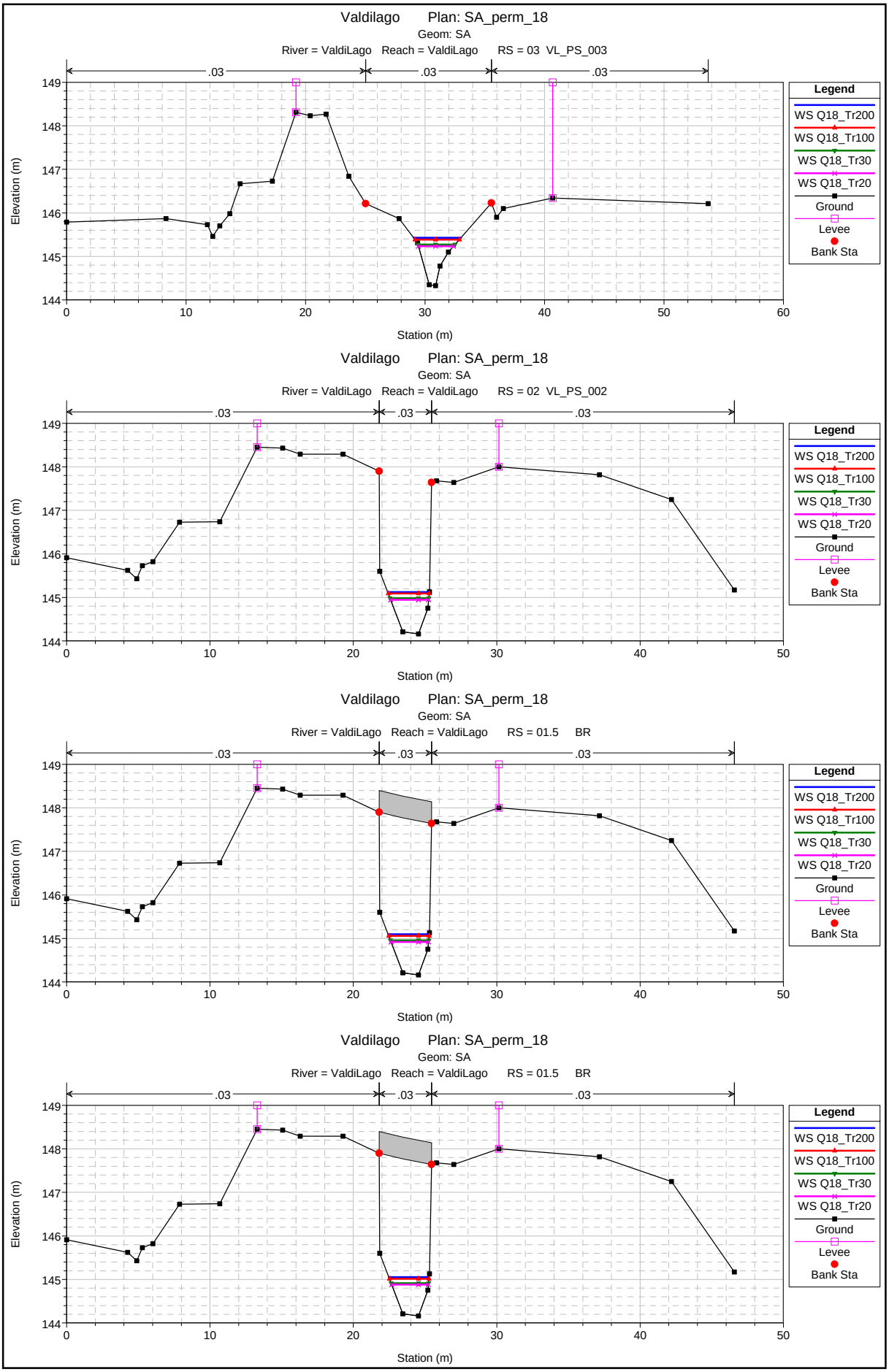

Plan: Sa_200_cr Storage Area: 14.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.025
142.020
142.015
142.010
142.005
142.000
141.995
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

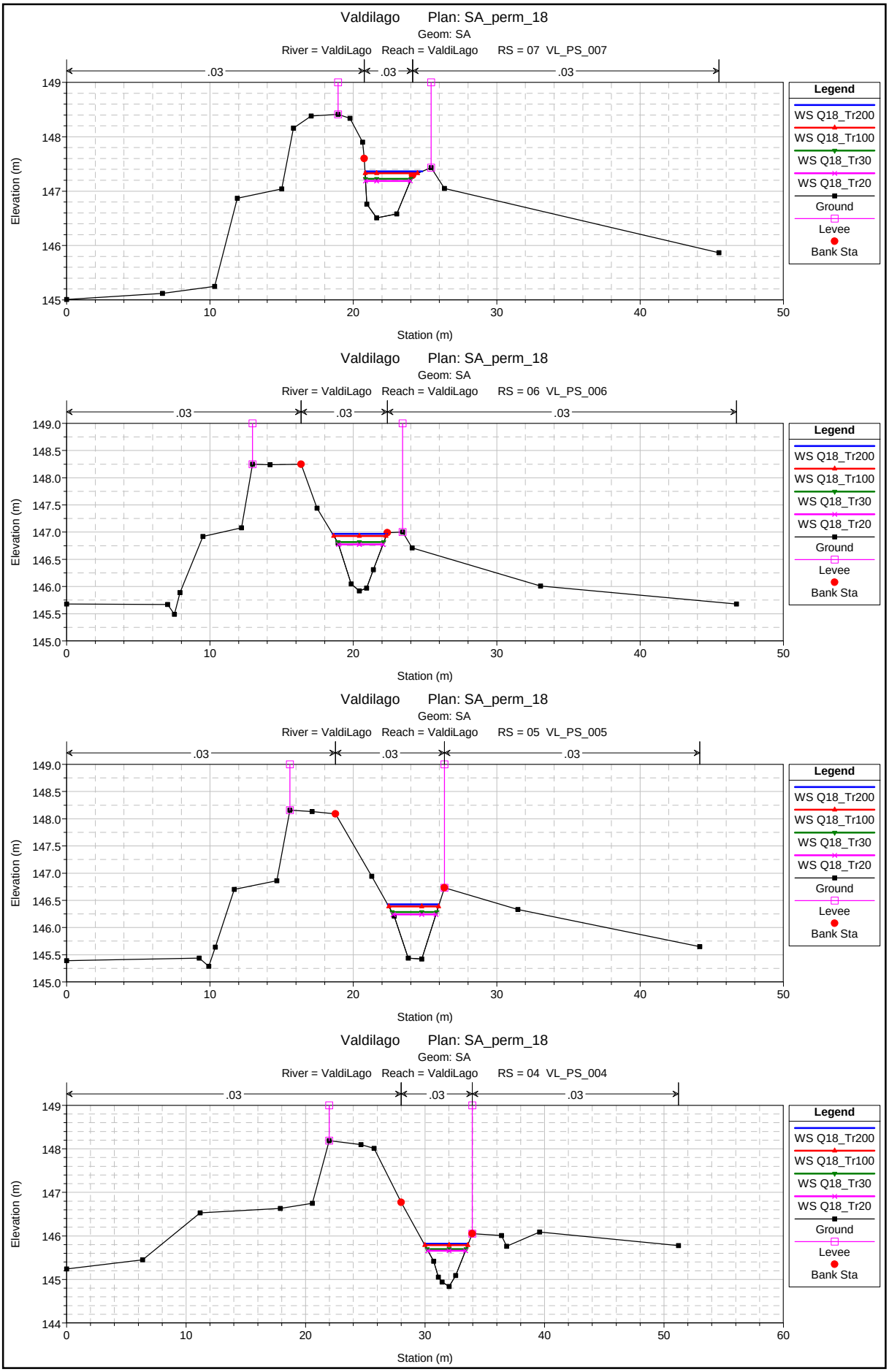

Plan: Sa_200_cr Storage Area: 13.88_SX
Legend
Stage
Net Inflow
Stage (m)
142.006
142.005
142.004
142.003
142.002
142.001
142.000
141.999
Flow (m3/s)
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

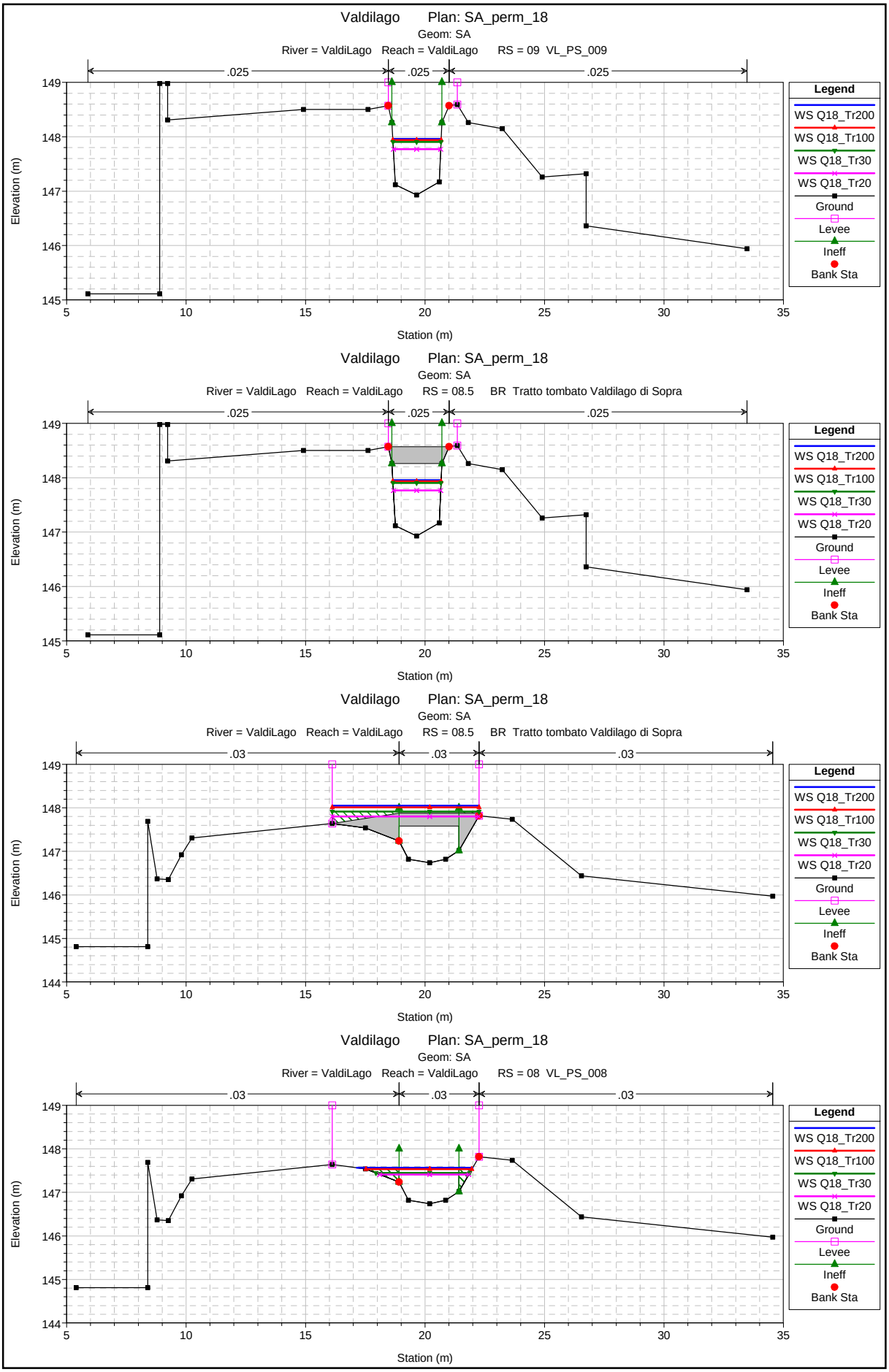

Plan: Sa_200_cr Storage Area: 12.9_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.040
142.035
142.030
142.025
142.020
142.015
142.010
142.005
142.000
1.0
0.8
0.6
0.4
0.2
0.0
2400
0100
0200
0300
0400
4/1/1990
Time


Plan: Sa_200_cr Storage Area: 11.49_DX
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
142.05
142.04
142.03
142.02
142.01
142.00
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
2400
0100
0200
0300
0400
4/1/1990
Time

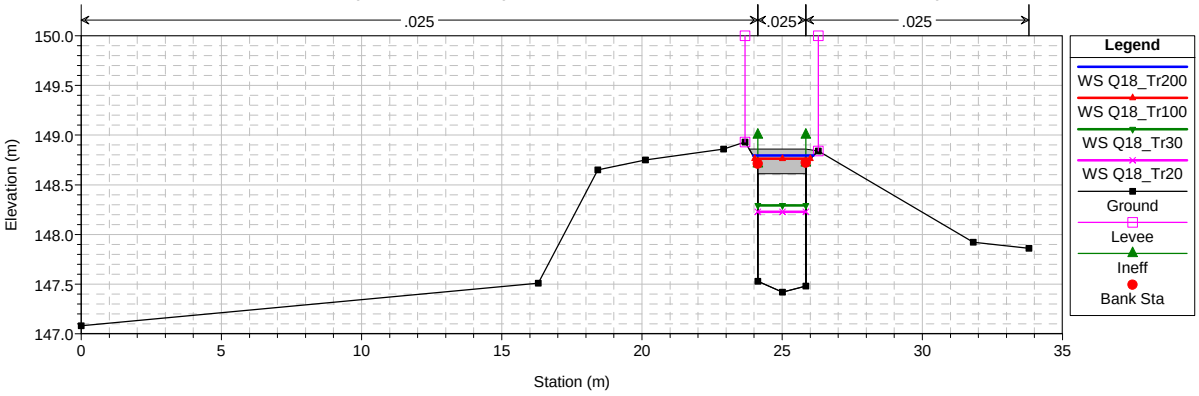

Valdilago Plan: SA_perm_18
Geom: SA
ValdiLago ValdiLago
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
160
158
156
154
152
150
148
146
144
0
200
400
600
800
1000
1200
1400
03...
04
05
06
07
08
08.5
10
11
011.5
13
14
15
17
18
19
19.5
21
21.5
23.5
25
28
29
30
31
32
33
35
36


Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 03 VL_PS_003
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 02 VL_PS_002
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 01.5 BR
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 01.5 BR
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta

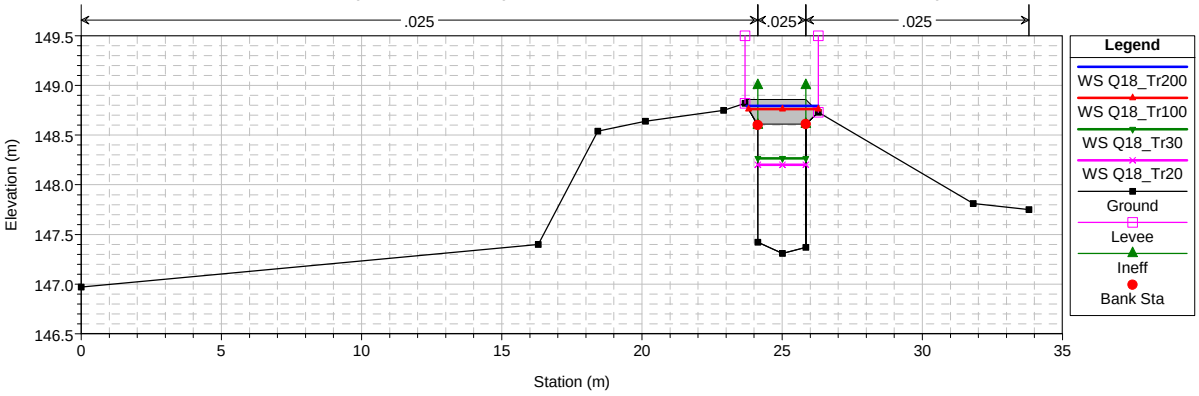

Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 07 VL_PS_007
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 06 VL_PS_006
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 05 VL_PS_005
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 04 VL_PS_004
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta


Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 09 VL_PS_009
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 08.5 BR Tratto tombato Valdilago di Sopra
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 08.5 BR Tratto tombato Valdilago di Sopra
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 08 VL_PS_008
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta

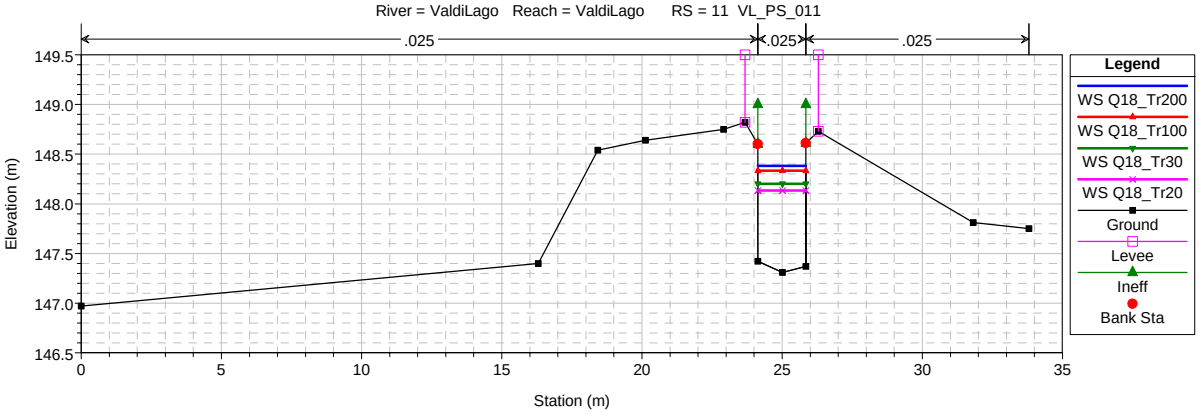
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 11.2 BR tratto tombato a valle del Canale Battagli



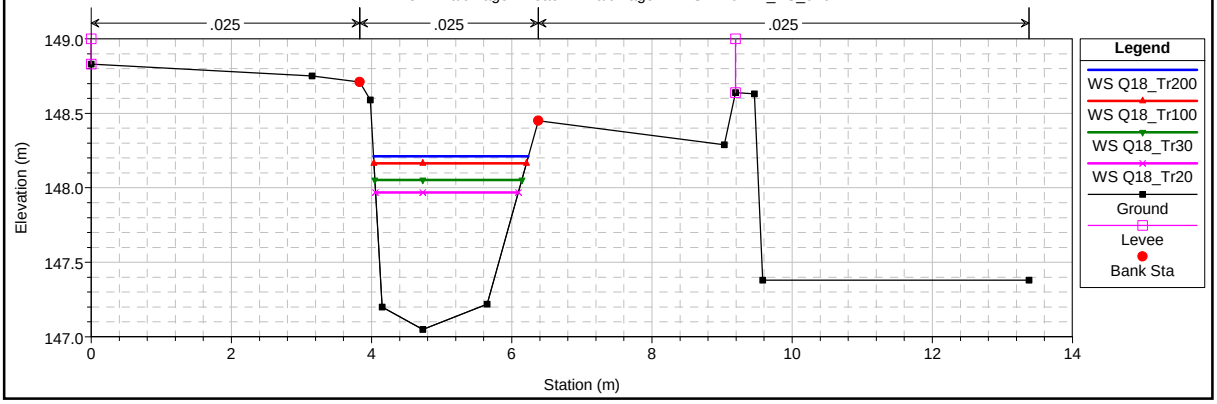
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 11.2 BR tratto tombato a valle del Canale Battagli

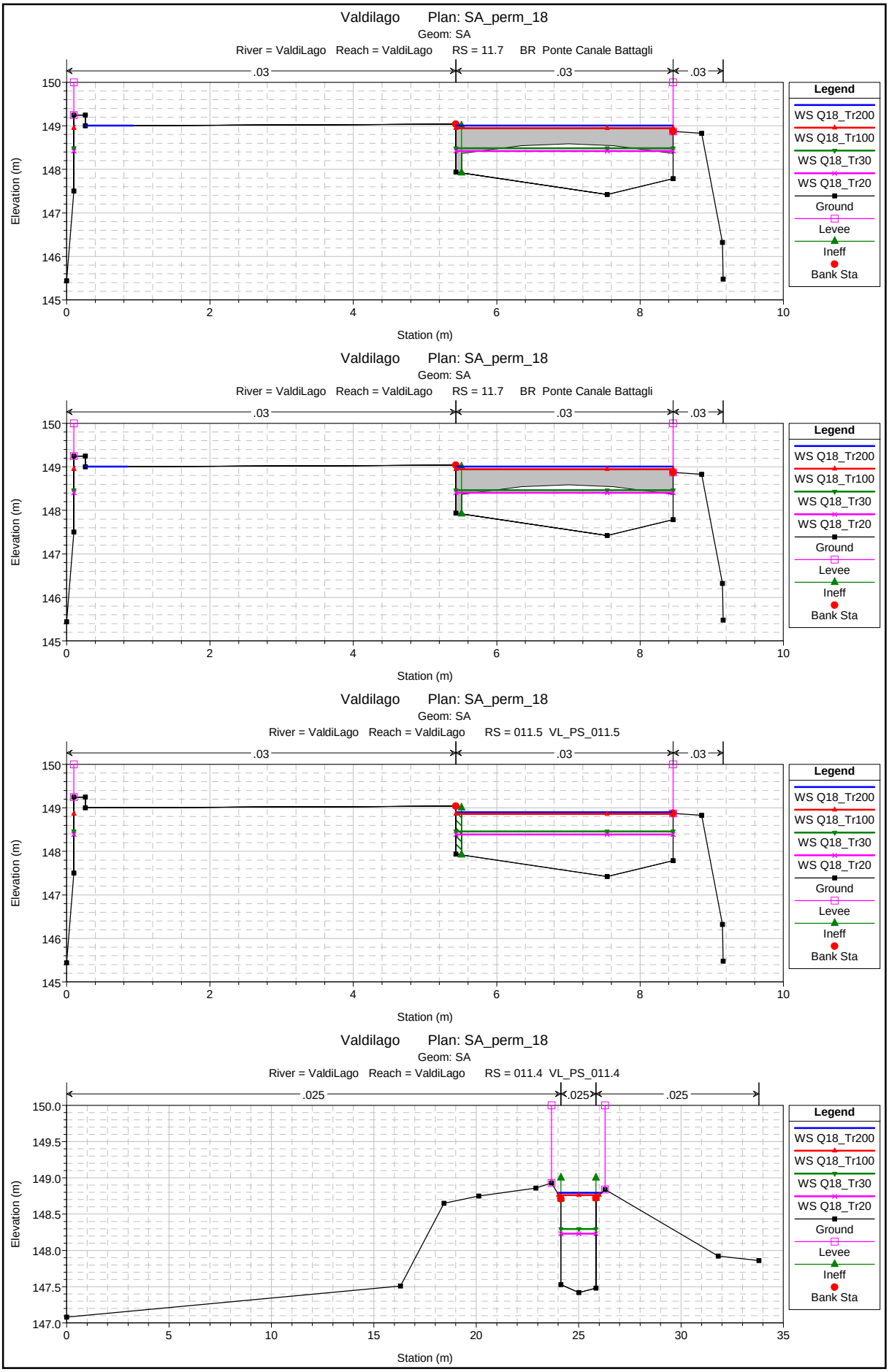


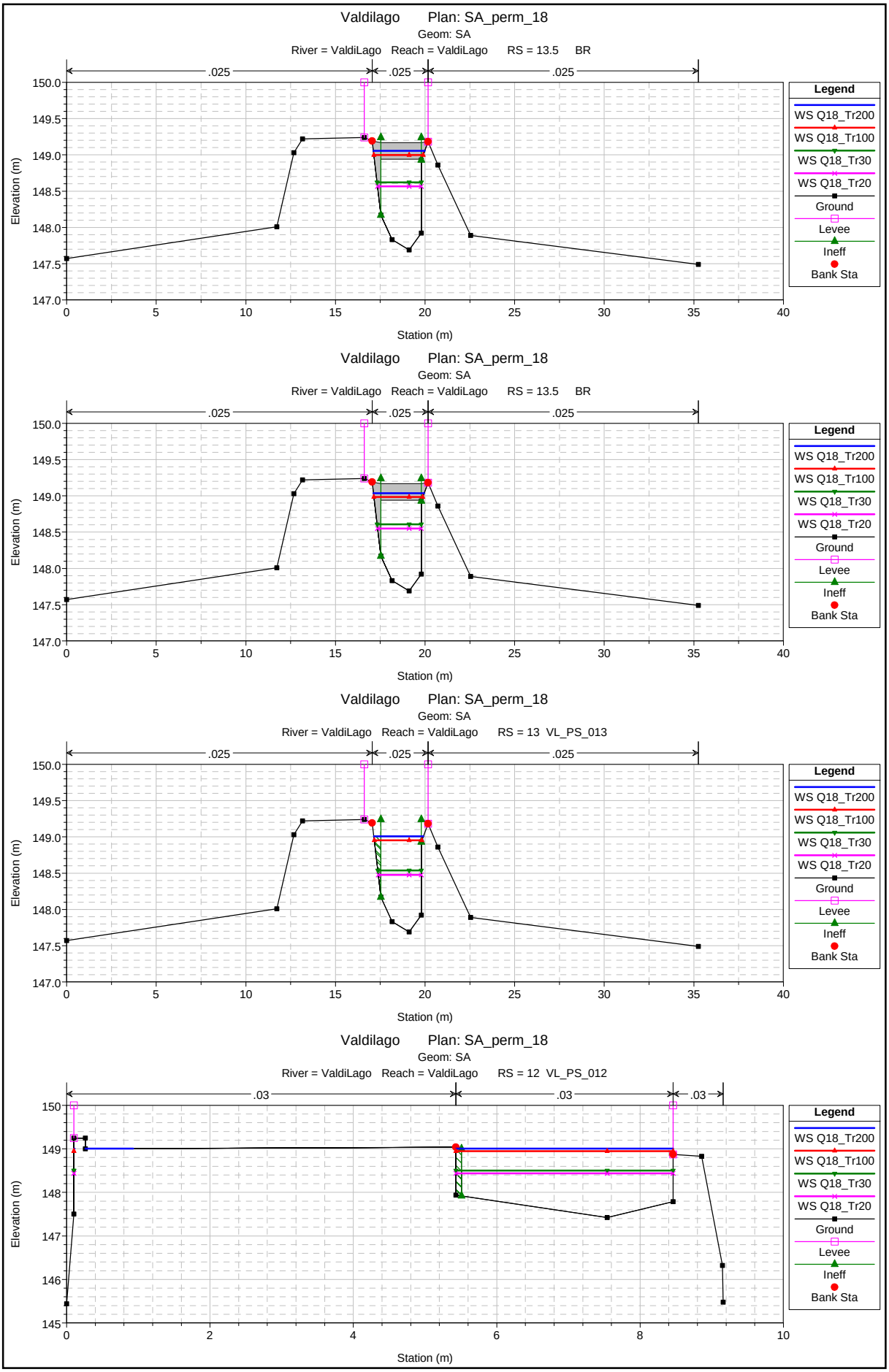
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 11 VL_PS_011

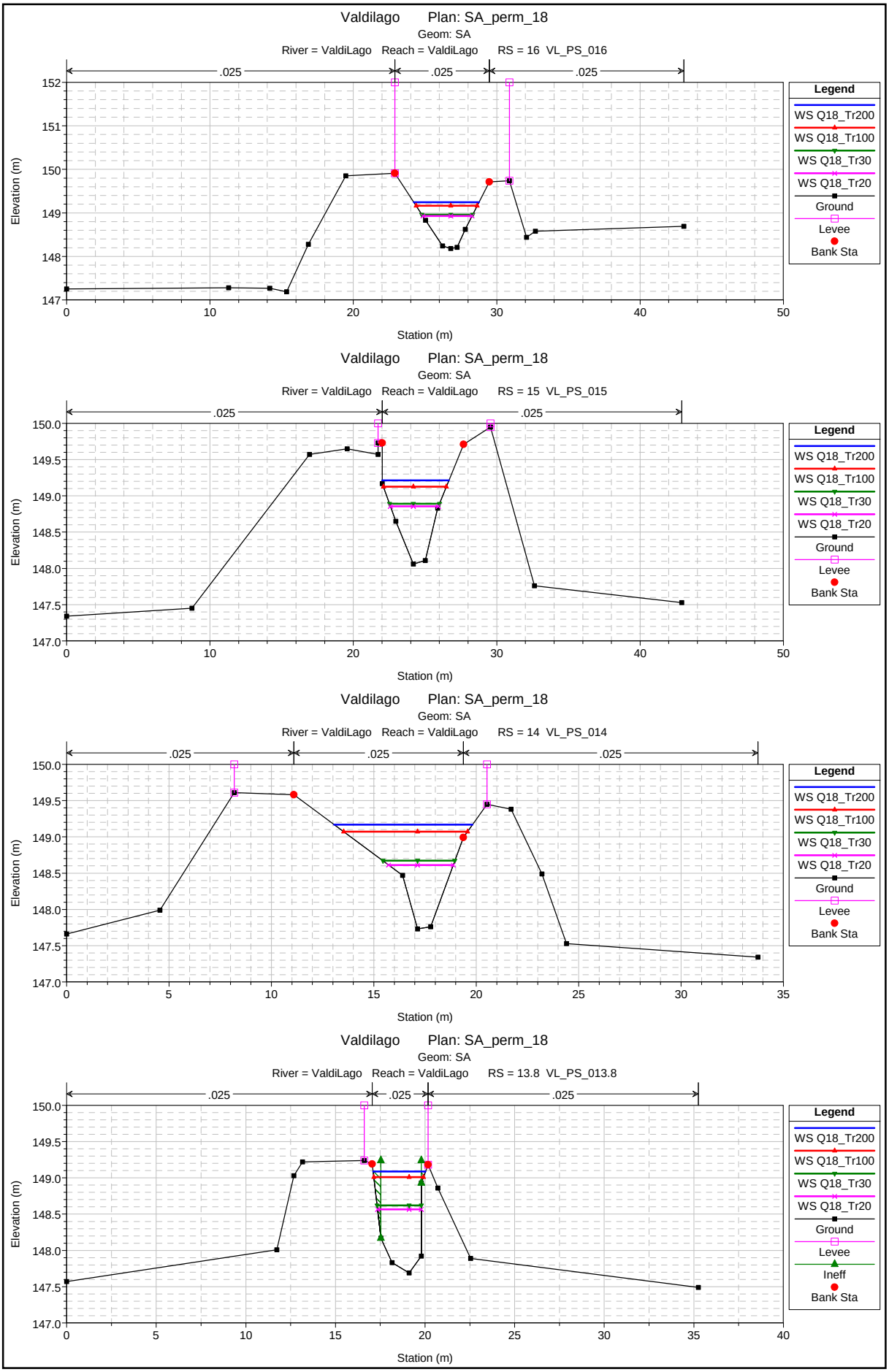


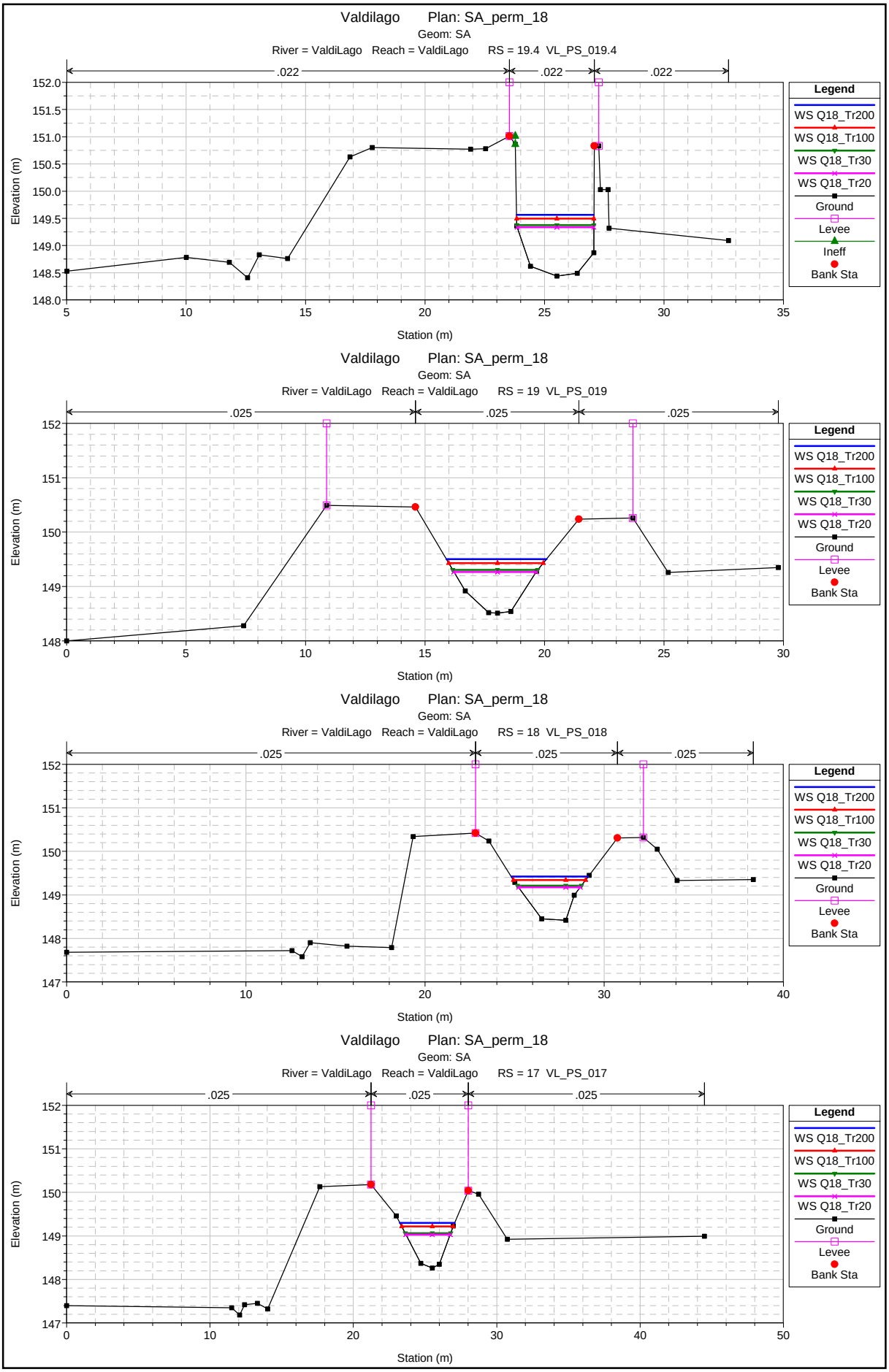
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 10 VL_PS_010




Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 11.7 BR Ponte Canale Battagli
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 11.7 BR Ponte Canale Battagli
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 011.5 VL_PS_011.5
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 011.4 VL_PS_011.4
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta


Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 13.5 BR
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 13.5 BR
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 13 VL_PS_013
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 12 VL_PS_012
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta

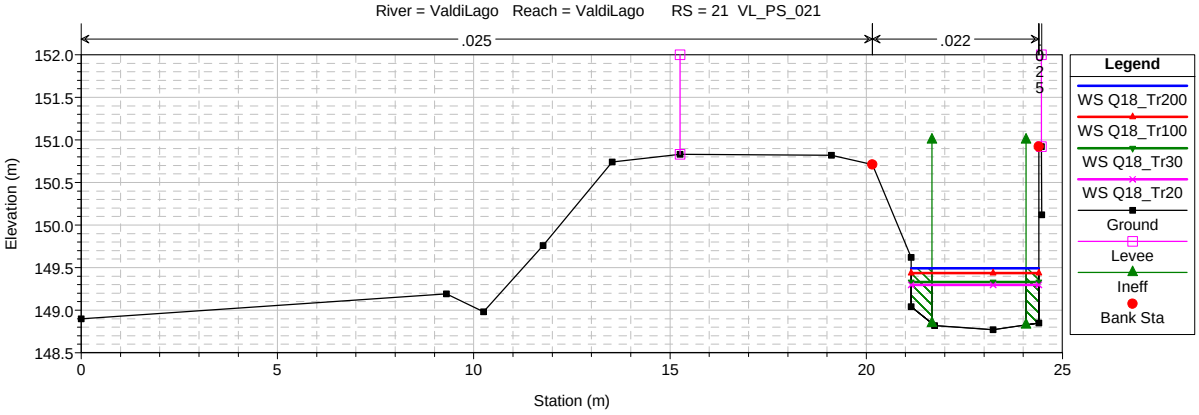

Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 16 VL_PS_016
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 15 VL_PS_015
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 14 VL_PS_014
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 13.8 VL_PS_013.8
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta


Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 19.4 VL_PS_019.4
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 19 VL_PS_019
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 18 VL_PS_018
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 17 VL_PS_017
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta

Valdilago Plan: SA_perm_18

Geom: SA

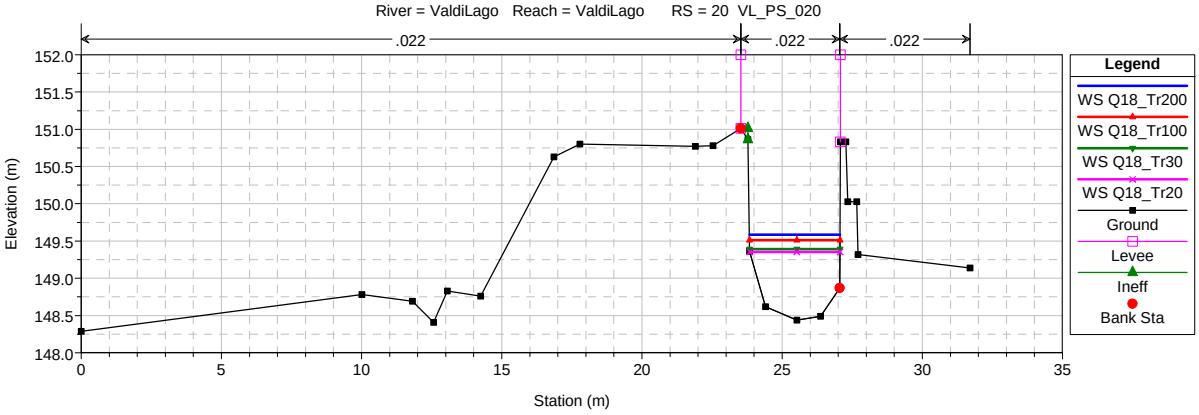
River = ValdiLago Reach = ValdiLago RS = 21 VL_PS_021



Valdilago Plan: SA_perm_18

Geom: SA

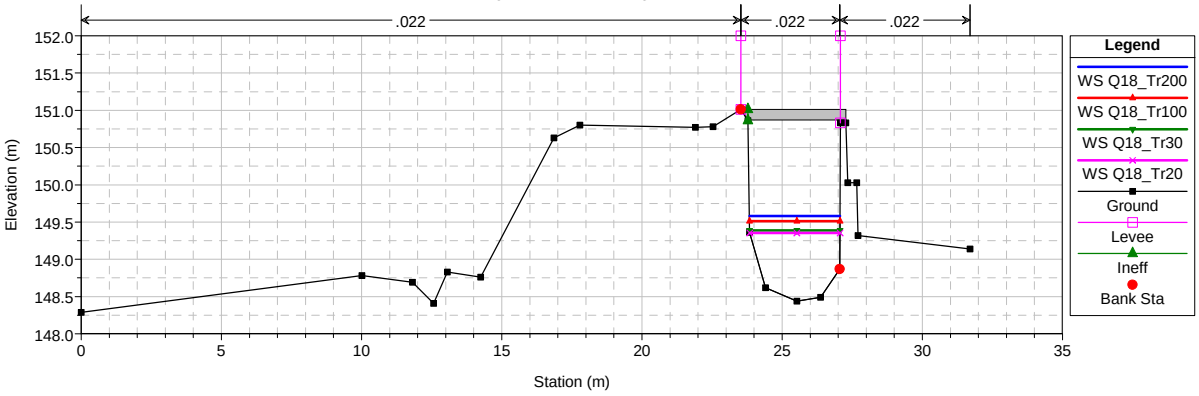
River = ValdiLago Reach = ValdiLago RS = 20 VL_PS_020



Valdilago Plan: SA_perm_18

Geom: SA

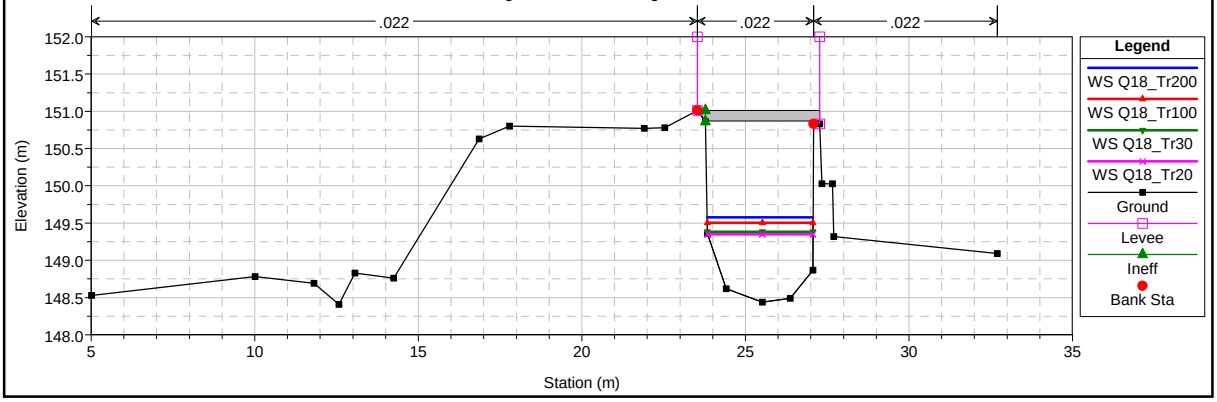
River = ValdiLago Reach = ValdiLago RS = 19.5 BR

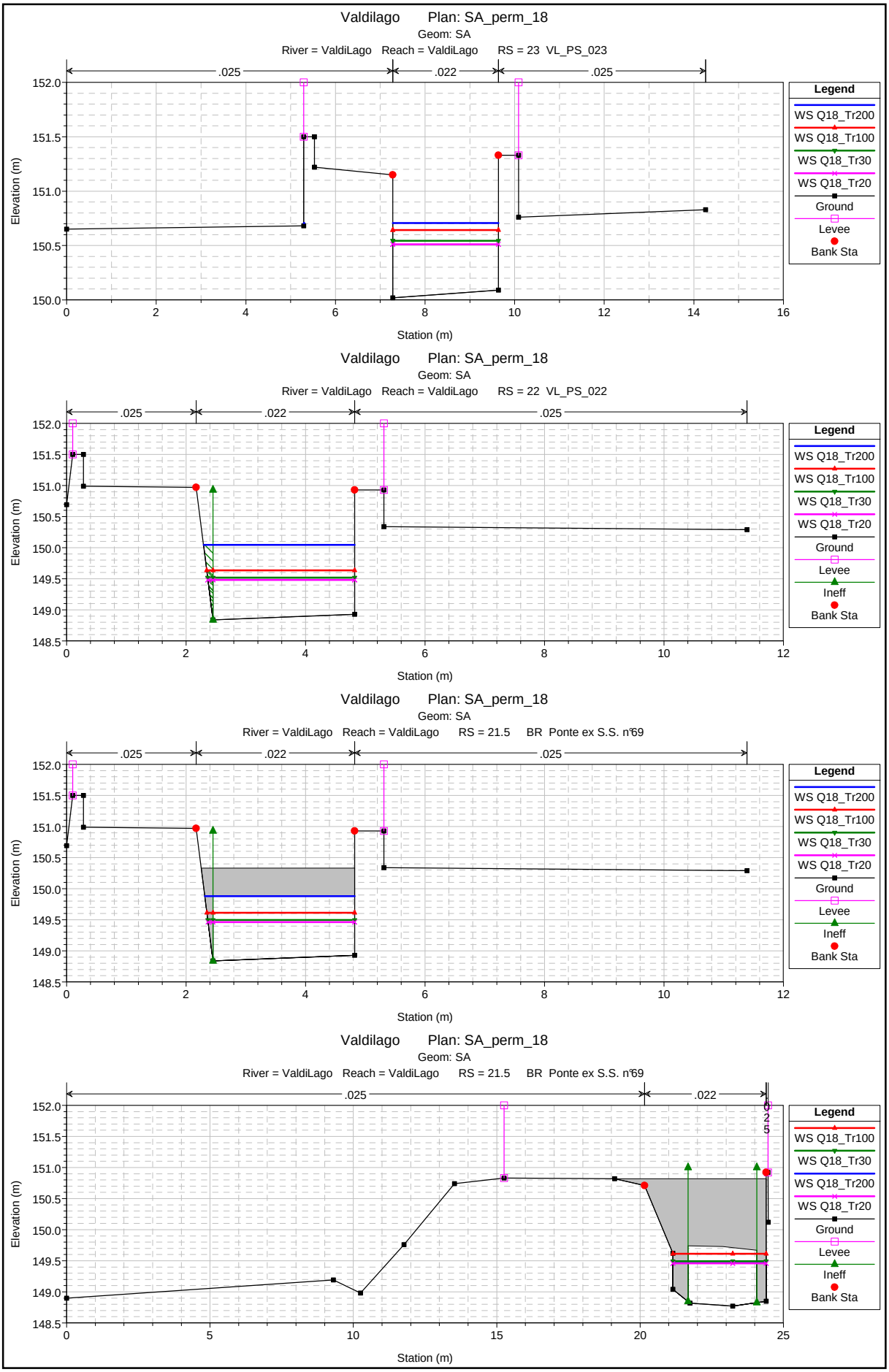


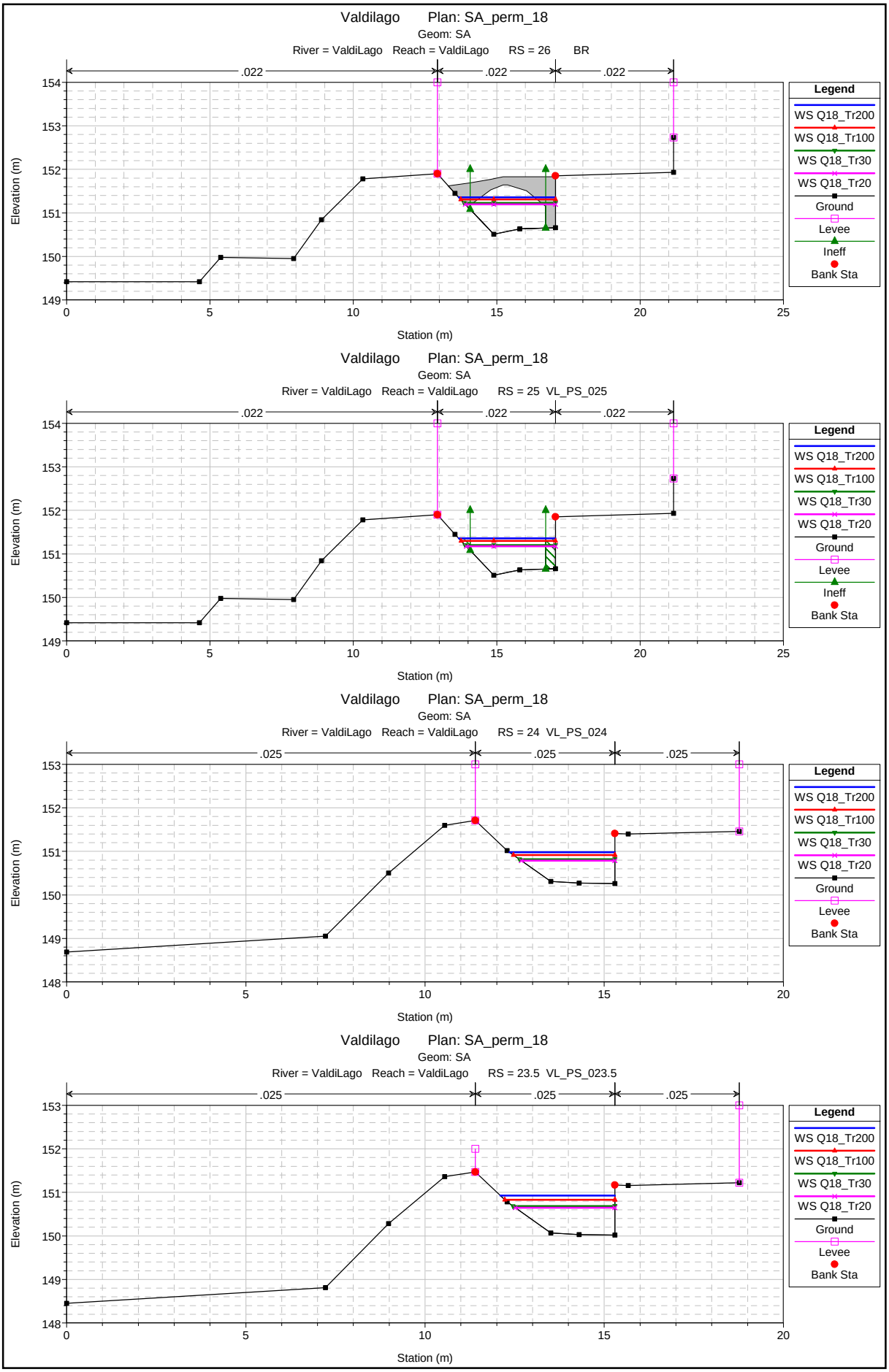
Valdilago Plan: SA_perm_18

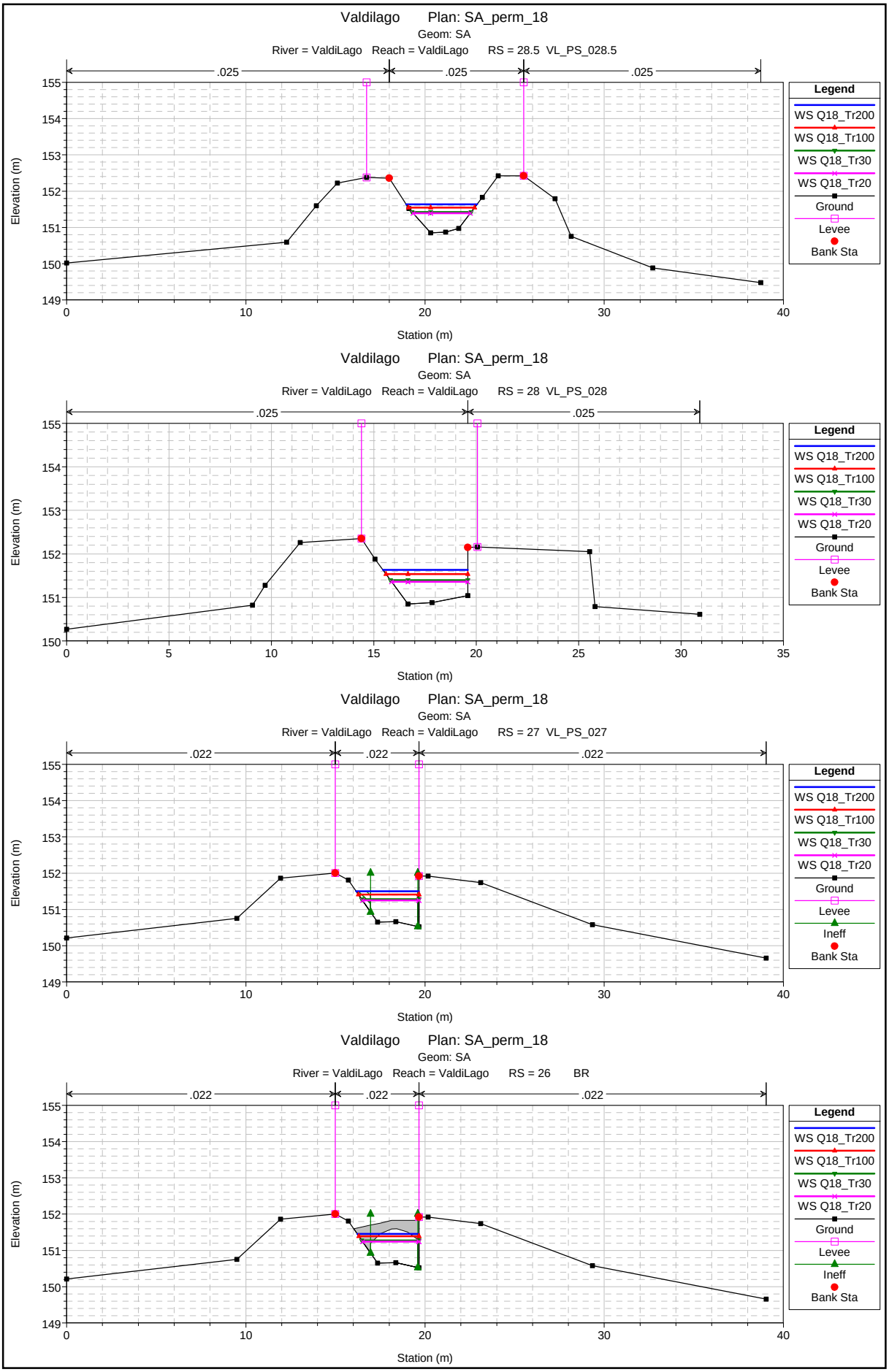
Geom: SA

River = ValdiLago Reach = ValdiLago RS = 19.5 BR




Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 23 VL_PS_023
.025
.022
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 22 VL_PS_022
.025
.022
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 21.5 BR Ponte ex S.S. n°69
.025
.022
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 21.5 BR Ponte ex S.S. n°69
.025
.022
Elevation (m)
Station (m)
Legend
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr200
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta

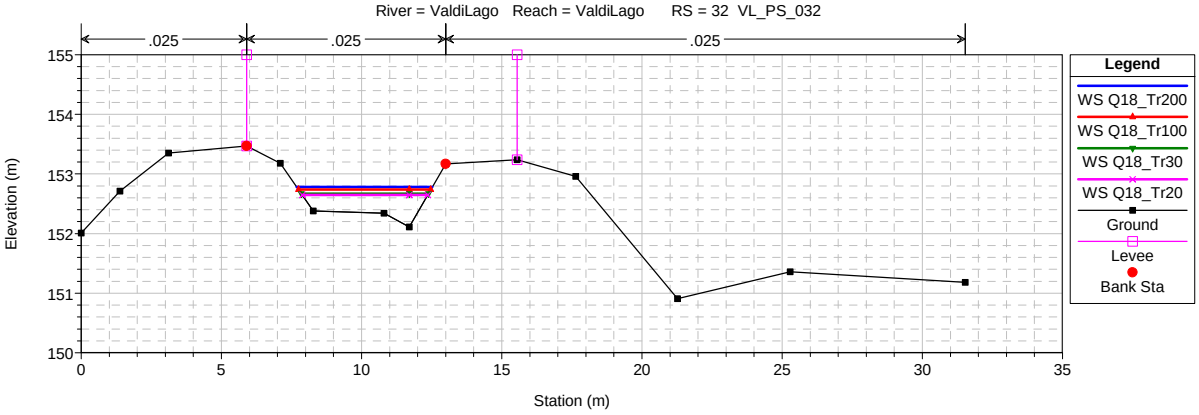

Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 26 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 25 VL_PS_025
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 24 VL_PS_024
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 23.5 VL_PS_023.5
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta


Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 28.5 VL_PS_028.5
.025
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 28 VL_PS_028
.025
.025
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 27 VL_PS_027
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 26 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta

Valdilago Plan: SA_perm_18

Geom: SA

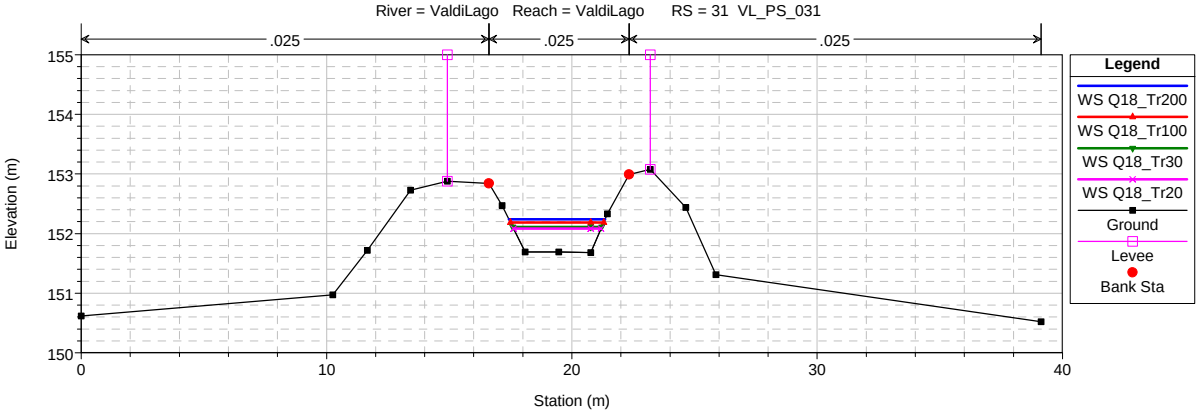
River = ValdiLago Reach = ValdiLago RS = 32 VL_PS_032



Valdilago Plan: SA_perm_18

Geom: SA

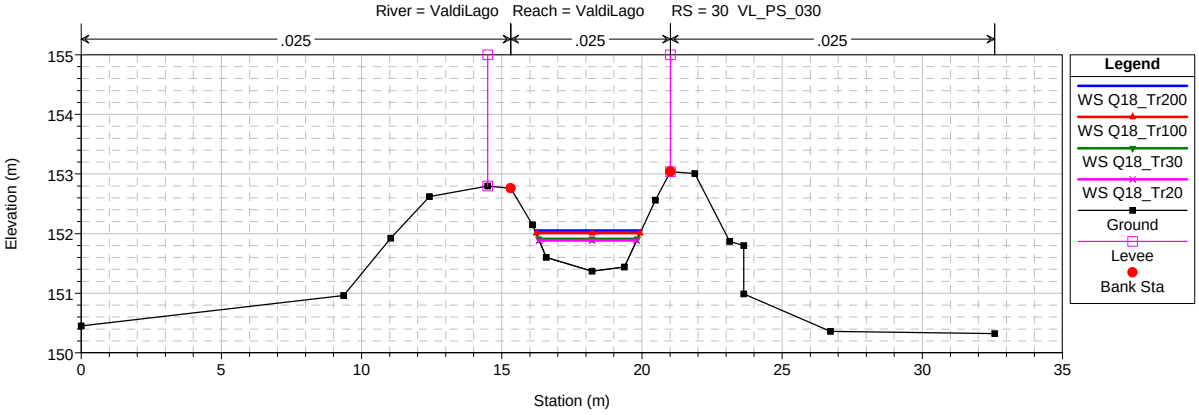
River = ValdiLago Reach = ValdiLago RS = 31 VL_PS_031



Valdilago Plan: SA_perm_18

Geom: SA

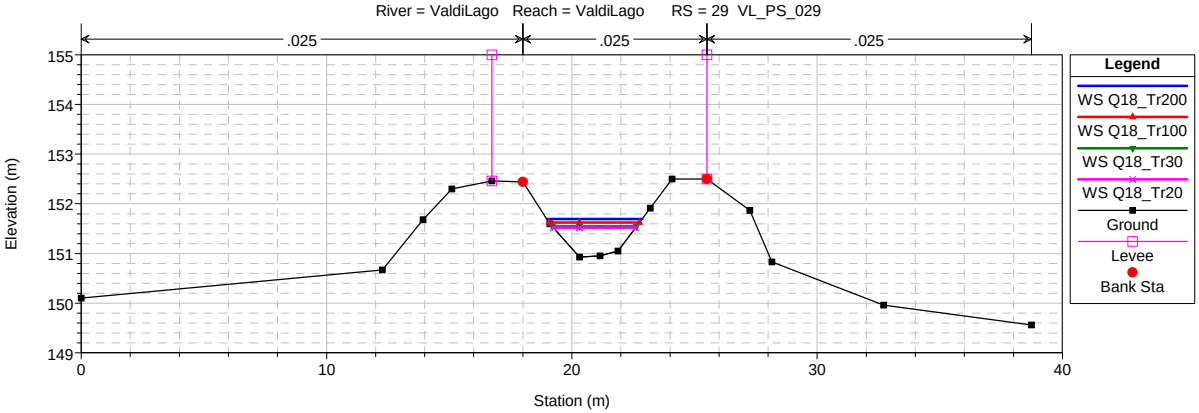
River = ValdiLago Reach = ValdiLago RS = 30 VL_PS_030



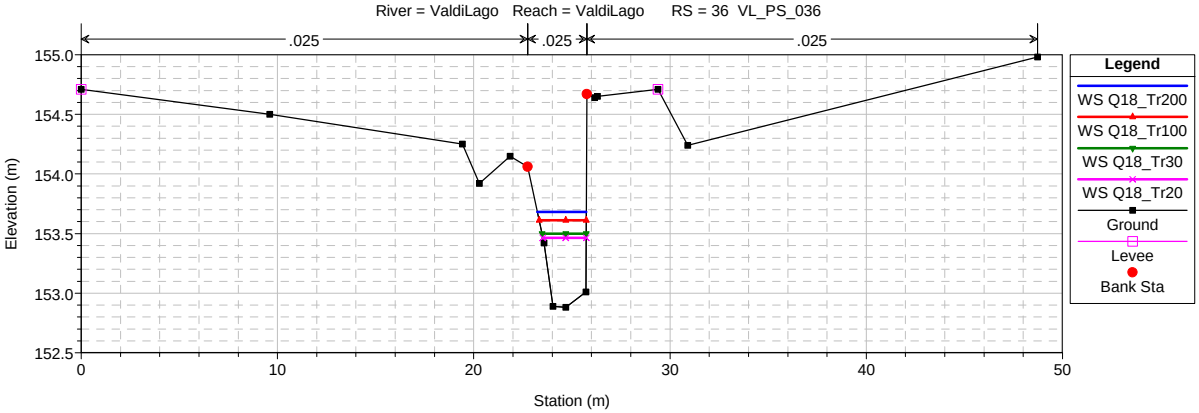
Valdilago Plan: SA_perm_18

Geom: SA

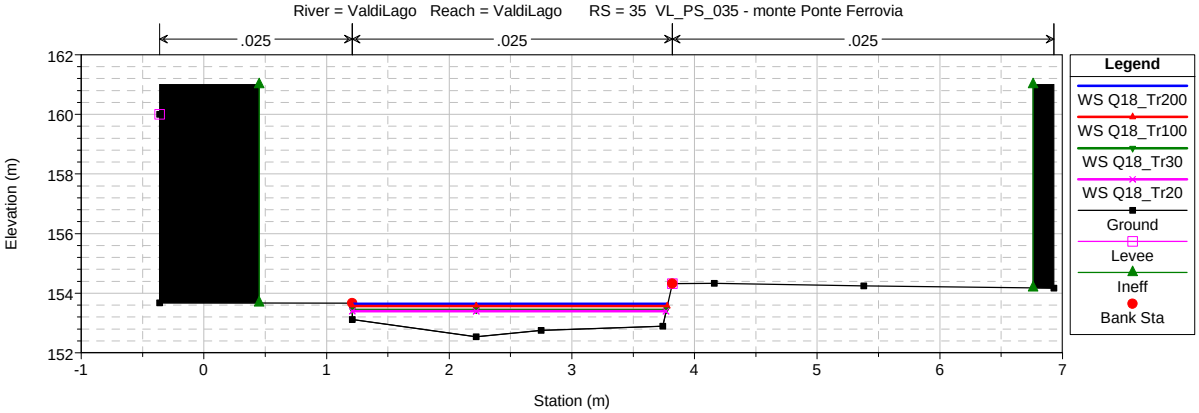
River = ValdiLago Reach = ValdiLago RS = 29 VL_PS_029



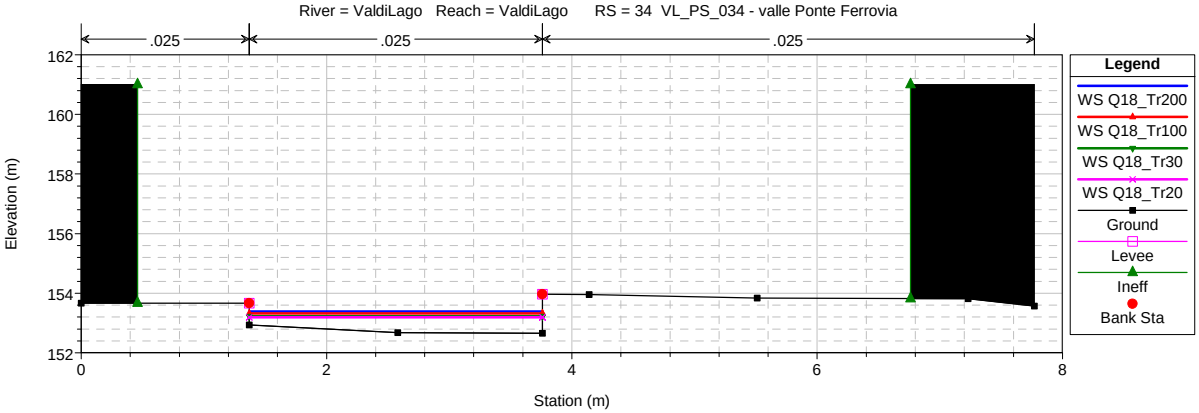
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 36 VL_PS_036



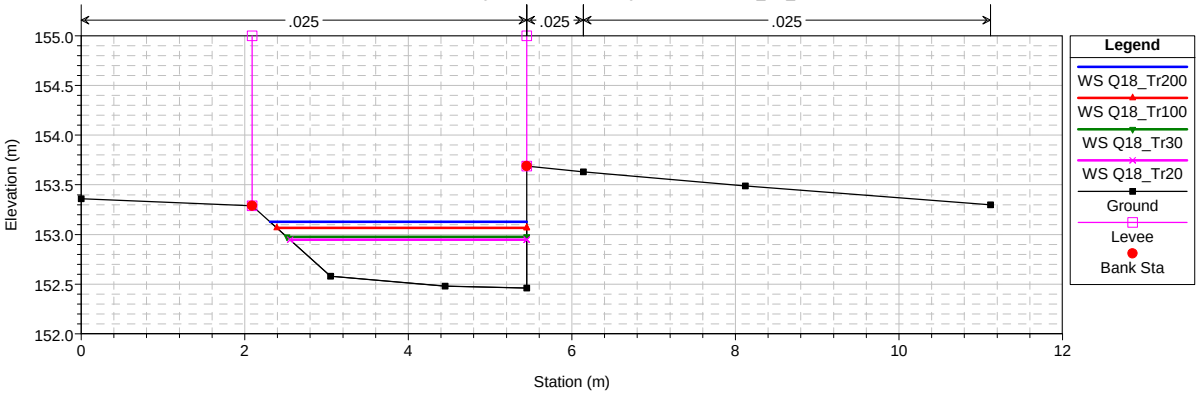
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 35 VL_PS_035 - monte Ponte Ferrovia

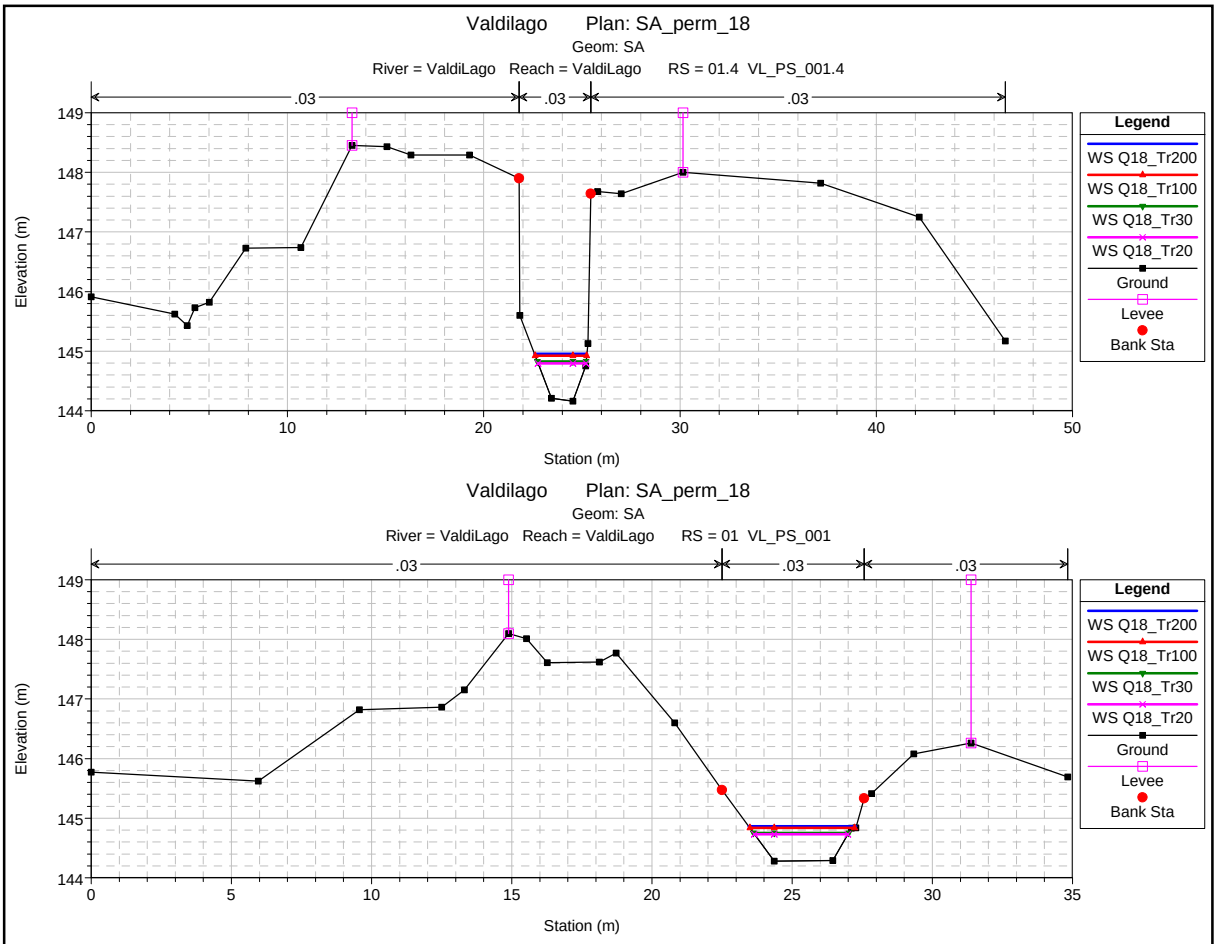


Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 34 VL_PS_034 - valle Ponte Ferrovia



Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 33 VL_PS_033




Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 01.4 VL_PS_001.4
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Valdilago Plan: SA_perm_18
Geom: SA
River = ValdiLago Reach = ValdiLago RS = 01 VL_PS_001
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta

HEC-RAS Plan: Sa_perm_18 River: ValdiLago Reach: ValdiLago

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	36	Q18_Tr200	3.89	152.88	153.68	153.68	154.00	0.011224	2.49	1.56	2.49	1.00
ValdiLago	36	Q18_Tr100	3.32	152.88	153.61	153.61	153.90	0.011188	2.38	1.39	2.40	1.00
ValdiLago	36	Q18_Tr30	2.51	152.88	153.50	153.50	153.75	0.011265	2.22	1.13	2.25	1.00
ValdiLago	36	Q18_Tr20	2.28	152.88	153.46	153.46	153.70	0.011330	2.16	1.05	2.20	1.00
ValdiLago	35	Q18_Tr200	3.89	152.54	153.65	153.41	153.81	0.004422	1.78	2.19	2.57	0.61
ValdiLago	35	Q18_Tr100	3.32	152.54	153.56	153.35	153.71	0.004296	1.68	1.98	2.57	0.61
ValdiLago	35	Q18_Tr30	2.51	152.54	153.44	153.25	153.55	0.004097	1.52	1.65	2.56	0.61
ValdiLago	35	Q18_Tr20	2.28	152.54	153.40	153.22	153.51	0.004051	1.47	1.55	2.56	0.60
ValdiLago	34	Q18_Tr200	3.89	152.66	153.39	153.39	153.71	0.012171	2.51	1.55	2.39	1.00
ValdiLago	34	Q18_Tr100	3.32	152.66	153.32	153.32	153.61	0.012024	2.39	1.39	2.39	1.00
ValdiLago	34	Q18_Tr30	2.51	152.66	153.22	153.22	153.46	0.011789	2.17	1.16	2.39	1.00
ValdiLago	34	Q18_Tr20	2.28	152.66	153.19	153.19	153.42	0.011607	2.09	1.09	2.39	0.99
ValdiLago	33.9		Lat Struct									
ValdiLago	33.8		Lat Struct									
ValdiLago	33	Q18_Tr200	3.89	152.46	153.13	153.13	153.40	0.010329	2.30	1.69	3.14	1.00
ValdiLago	33	Q18_Tr100	3.32	152.46	153.07	153.07	153.31	0.010496	2.20	1.51	3.06	1.00
ValdiLago	33	Q18_Tr30	2.51	152.46	152.98	152.98	153.19	0.010709	2.03	1.23	2.93	1.00
ValdiLago	33	Q18_Tr20	2.28	152.46	152.95	152.95	153.15	0.010848	1.98	1.15	2.90	1.00
ValdiLago	32	Q18_Tr200	3.89	152.11	152.78	152.78	152.98	0.009137	1.99	1.96	4.84	1.00
ValdiLago	32	Q18_Tr100	3.32	152.11	152.74	152.74	152.92	0.009420	1.90	1.74	4.71	1.00
ValdiLago	32	Q18_Tr30	2.51	152.11	152.67	152.67	152.83	0.009927	1.76	1.42	4.53	1.00
ValdiLago	32	Q18_Tr20	2.28	152.11	152.65	152.65	152.80	0.010055	1.71	1.33	4.47	1.00
ValdiLago	31	Q18_Tr200	3.89	151.68	152.24	152.24	152.47	0.008934	2.12	1.83	3.93	0.99
ValdiLago	31	Q18_Tr100	3.32	151.68	152.19	152.19	152.40	0.009317	2.05	1.62	3.80	1.00
ValdiLago	31	Q18_Tr30	2.51	151.68	152.11	152.11	152.29	0.009578	1.89	1.33	3.63	1.00
ValdiLago	31	Q18_Tr20	2.28	151.68	152.08	152.08	152.26	0.009688	1.84	1.24	3.57	1.00
ValdiLago	30	Q18_Tr200	3.89	151.37	152.05	152.01	152.26	0.007166	2.00	1.94	3.79	0.89

HEC-RAS Plan: Sa_perm_18 River: ValdiLago Reach: ValdiLago (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	30	Q18_Tr100	3.32	151.37	152.01	151.96	152.18	0.006758	1.87	1.78	3.70	0.86
ValdiLago	30	Q18_Tr30	2.51	151.37	151.91	151.88	152.07	0.007261	1.75	1.43	3.53	0.88
ValdiLago	30	Q18_Tr20	2.28	151.37	151.88	151.85	152.03	0.007350	1.71	1.34	3.47	0.88
ValdiLago	29	Q18_Tr200	3.89	150.93	151.69	151.65	151.89	0.006844	1.97	1.97	3.88	0.88
ValdiLago	29	Q18_Tr100	3.32	150.93	151.62	151.59	151.81	0.007469	1.95	1.71	3.68	0.91
ValdiLago	29	Q18_Tr30	2.51	150.93	151.55	151.50	151.70	0.006856	1.75	1.44	3.44	0.86
ValdiLago	29	Q18_Tr20	2.28	150.93	151.52	151.47	151.66	0.006786	1.69	1.35	3.35	0.85
ValdiLago	28.5	Q18_Tr200	3.89	150.85	151.64	151.56	151.82	0.005938	1.87	2.08	3.96	0.83
ValdiLago	28.5	Q18_Tr100	3.32	150.85	151.54	151.51	151.73	0.007343	1.93	1.72	3.69	0.91
ValdiLago	28.5	Q18_Tr30	2.51	150.85	151.42	151.42	151.61	0.009181	1.94	1.29	3.30	0.99
ValdiLago	28.5	Q18_Tr20	2.28	150.85	151.39	151.39	151.58	0.009389	1.91	1.20	3.20	0.99
ValdiLago	28	Q18_Tr200	3.89	150.85	151.63	151.45	151.75	0.003526	1.52	2.55	4.14	0.62
ValdiLago	28	Q18_Tr100	3.32	150.85	151.54	151.40	151.66	0.004162	1.54	2.16	3.99	0.67
ValdiLago	28	Q18_Tr30	2.51	150.85	151.40	151.32	151.52	0.005490	1.55	1.62	3.78	0.75
ValdiLago	28	Q18_Tr20	2.28	150.85	151.36	151.30	151.48	0.005899	1.54	1.48	3.72	0.78
ValdiLago	27	Q18_Tr200	3.89	150.52	151.50	151.25	151.65	0.001878	1.73	2.25	3.51	0.60
ValdiLago	27	Q18_Tr100	3.32	150.52	151.41	151.19	151.55	0.001971	1.65	2.01	3.38	0.60
ValdiLago	27	Q18_Tr30	2.51	150.52	151.28	151.10	151.40	0.002068	1.50	1.68	3.20	0.60
ValdiLago	27	Q18_Tr20	2.28	150.52	151.25	151.07	151.36	0.002052	1.44	1.59	3.15	0.59
ValdiLago	26		Bridge									
ValdiLago	25	Q18_Tr200	3.89	150.51	151.36	151.27	151.59	0.003948	2.13	1.82	3.37	0.82
ValdiLago	25	Q18_Tr100	3.32	150.51	151.30	151.21	151.50	0.003848	1.99	1.67	3.29	0.80
ValdiLago	25	Q18_Tr30	2.51	150.51	151.20	151.12	151.36	0.003787	1.77	1.42	3.15	0.77
ValdiLago	25	Q18_Tr20	2.28	150.51	151.17	151.09	151.32	0.003789	1.70	1.34	3.11	0.76
ValdiLago	24.8		Lat Struct									
ValdiLago	24	Q18_Tr200	3.89	150.26	150.98	150.98	151.26	0.010744	2.36	1.65	2.94	1.01
ValdiLago	24	Q18_Tr100	3.32	150.26	150.92	150.92	151.18	0.010863	2.27	1.47	2.83	1.01

HEC-RAS Plan: Sa_perm_18 River: ValdiLago Reach: ValdiLago (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	24	Q18_Tr30	2.51	150.26	150.82	150.82	151.04	0.010946	2.10	1.20	2.67	1.00
ValdiLago	24	Q18_Tr20	2.28	150.26	150.79	150.79	151.00	0.010966	2.04	1.12	2.61	1.00
ValdiLago	23.5	Q18_Tr200	3.89	150.02	150.93	150.74	151.08	0.004721	1.75	2.22	3.20	0.67
ValdiLago	23.5	Q18_Tr100	3.32	150.02	150.83	150.68	150.98	0.005143	1.73	1.92	3.08	0.70
ValdiLago	23.5	Q18_Tr30	2.51	150.02	150.69	150.58	150.83	0.005907	1.68	1.49	2.85	0.74
ValdiLago	23.5	Q18_Tr20	2.28	150.02	150.65	150.55	150.79	0.006092	1.66	1.38	2.78	0.75
ValdiLago	23	Q18_Tr200	3.89	150.02	150.71	150.71	151.03	0.009822	2.53	1.54	2.36	1.00
ValdiLago	23	Q18_Tr100	3.32	150.02	150.64	150.64	150.93	0.009674	2.39	1.39	2.36	1.00
ValdiLago	23	Q18_Tr30	2.51	150.02	150.54	150.54	150.79	0.009514	2.18	1.15	2.36	1.00
ValdiLago	23	Q18_Tr20	2.28	150.02	150.51	150.51	150.74	0.009549	2.12	1.08	2.36	1.00
ValdiLago	22	Q18_Tr200	3.89	148.84	150.04	149.53	150.15	0.001333	1.42	2.75	2.53	0.42
ValdiLago	22	Q18_Tr100	3.32	148.84	149.64	149.47	149.81	0.003503	1.87	1.78	2.47	0.69
ValdiLago	22	Q18_Tr30	2.51	148.84	149.52	149.37	149.66	0.003356	1.67	1.50	2.46	0.67
ValdiLago	22	Q18_Tr20	2.28	148.84	149.48	149.34	149.61	0.003330	1.61	1.41	2.45	0.67
ValdiLago	21.5		Bridge									
ValdiLago	21	Q18_Tr200	3.89	148.77	149.49	149.44	149.77	0.004286	2.33	1.67	3.26	0.89
ValdiLago	21	Q18_Tr100	3.32	148.77	149.43	149.38	149.67	0.004181	2.17	1.53	3.26	0.87
ValdiLago	21	Q18_Tr30	2.51	148.77	149.33	149.28	149.53	0.004361	1.97	1.28	3.26	0.86
ValdiLago	21	Q18_Tr20	2.28	148.77	149.30	149.25	149.48	0.004466	1.91	1.20	3.26	0.86
ValdiLago	20	Q18_Tr200	3.89	148.44	149.59	149.14	149.67	0.001054	1.26	3.09	3.24	0.41
ValdiLago	20	Q18_Tr100	3.32	148.44	149.51	149.09	149.58	0.000976	1.16	2.86	3.23	0.39
ValdiLago	20	Q18_Tr30	2.51	148.44	149.39	148.99	149.44	0.000875	1.02	2.46	3.23	0.37
ValdiLago	20	Q18_Tr20	2.28	148.44	149.35	148.97	149.40	0.000843	0.97	2.34	3.22	0.36
ValdiLago	19.5		Bridge									
ValdiLago	19.4	Q18_Tr200	3.89	148.44	149.56	149.14	149.65	0.001400	1.29	3.02	3.24	0.42
ValdiLago	19.4	Q18_Tr100	3.32	148.44	149.49	149.08	149.57	0.001271	1.19	2.80	3.23	0.41
ValdiLago	19.4	Q18_Tr30	2.51	148.44	149.37	148.99	149.43	0.001106	1.04	2.41	3.23	0.38

HEC-RAS Plan: Sa_perm_18 River: ValdiLago Reach: ValdiLago (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	19.4	Q18_Tr20	2.28	148.44	149.34	148.97	149.39	0.001053	0.99	2.29	3.21	0.38
ValdiLago	19	Q18_Tr200	3.89	148.51	149.50	149.28	149.62	0.003112	1.49	2.60	4.19	0.61
ValdiLago	19	Q18_Tr100	3.32	148.51	149.43	149.22	149.54	0.003166	1.44	2.30	3.95	0.60
ValdiLago	19	Q18_Tr30	2.51	148.51	149.31	149.13	149.40	0.003317	1.37	1.83	3.56	0.61
ValdiLago	19	Q18_Tr20	2.28	148.51	149.27	149.10	149.36	0.003331	1.34	1.70	3.45	0.61
ValdiLago	18	Q18_Tr200	3.89	148.42	149.42	149.19	149.53	0.003002	1.46	2.67	4.30	0.59
ValdiLago	18	Q18_Tr100	3.32	148.42	149.34	149.12	149.44	0.003098	1.42	2.35	4.04	0.59
ValdiLago	18	Q18_Tr30	2.51	148.42	149.21	149.02	149.31	0.003369	1.36	1.84	3.58	0.61
ValdiLago	18	Q18_Tr20	2.28	148.42	149.17	148.99	149.26	0.003375	1.33	1.71	3.44	0.60
ValdiLago	17	Q18_Tr200	3.89	148.26	149.30	149.09	149.43	0.003493	1.59	2.45	3.82	0.63
ValdiLago	17	Q18_Tr100	3.32	148.26	149.22	149.02	149.34	0.003570	1.54	2.16	3.60	0.63
ValdiLago	17	Q18_Tr30	2.51	148.26	149.06	148.92	149.18	0.004346	1.54	1.63	3.18	0.68
ValdiLago	17	Q18_Tr20	2.28	148.26	149.03	148.89	149.14	0.004302	1.49	1.53	3.09	0.68
ValdiLago	16	Q18_Tr200	3.89	148.18	149.25	148.99	149.34	0.002549	1.37	2.85	4.56	0.55
ValdiLago	16	Q18_Tr100	3.32	148.18	149.16	148.93	149.25	0.002709	1.34	2.47	4.26	0.56
ValdiLago	16	Q18_Tr30	2.51	148.18	148.96	148.83	149.07	0.004296	1.49	1.69	3.55	0.69
ValdiLago	16	Q18_Tr20	2.28	148.18	148.93	148.80	149.03	0.004359	1.46	1.56	3.43	0.69
ValdiLago	15	Q18_Tr200	3.89	148.06	149.21	148.89	149.30	0.002083	1.27	3.07	4.66	0.50
ValdiLago	15	Q18_Tr100	3.32	148.06	149.13	148.83	149.20	0.002213	1.24	2.67	4.40	0.51
ValdiLago	15	Q18_Tr30	2.51	148.06	148.89	148.73	149.00	0.003840	1.44	1.75	3.49	0.65
ValdiLago	15	Q18_Tr20	2.28	148.06	148.86	148.70	148.96	0.003825	1.40	1.62	3.35	0.64
ValdiLago	14.9		Lat Struct									
ValdiLago	14	Q18_Tr200	3.89	147.73	149.17	148.71	149.21	0.001141	0.94	4.17	6.75	0.37
ValdiLago	14	Q18_Tr100	3.32	147.73	149.07	148.64	149.12	0.001270	0.94	3.55	6.05	0.38
ValdiLago	14	Q18_Tr30	2.51	147.73	148.67	148.52	148.79	0.004998	1.53	1.65	3.52	0.71
ValdiLago	14	Q18_Tr20	2.28	147.73	148.61	148.47	148.74	0.005544	1.57	1.45	3.16	0.74
ValdiLago	13.88		Lat Struct									

HEC-RAS Plan: Sa_perm_18 River: ValdiLago Reach: ValdiLago (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	13.8	Q18_Tr200	3.89	147.69	149.09	148.51	149.19	0.001544	1.39	2.81	2.93	0.40
ValdiLago	13.8	Q18_Tr100	3.32	147.69	149.01	148.45	149.09	0.001397	1.26	2.63	2.77	0.37
ValdiLago	13.8	Q18_Tr30	2.51	147.69	148.62	148.34	148.72	0.002707	1.43	1.76	2.47	0.52
ValdiLago	13.8	Q18_Tr20	2.28	147.69	148.57	148.31	148.66	0.002781	1.40	1.63	2.44	0.52
ValdiLago	13.5		Bridge									
ValdiLago	13	Q18_Tr200	3.89	147.69	149.01	148.51	149.12	0.001934	1.48	2.62	2.77	0.44
ValdiLago	13	Q18_Tr100	3.32	147.69	148.95	148.45	149.04	0.001652	1.33	2.50	2.66	0.40
ValdiLago	13	Q18_Tr30	2.51	147.69	148.54	148.34	148.67	0.003793	1.60	1.57	2.43	0.61
ValdiLago	13	Q18_Tr20	2.28	147.69	148.48	148.31	148.60	0.004159	1.59	1.43	2.40	0.64
ValdiLago	12.9		Lat Struct									
ValdiLago	12	Q18_Tr200	3.52	147.42	149.01	148.17	149.04	0.000978	0.86	4.09	3.71	0.24
ValdiLago	12	Q18_Tr100	3.22	147.42	148.95	148.15	148.98	0.000730	0.84	3.83	3.03	0.24
ValdiLago	12	Q18_Tr30	2.51	147.42	148.50	148.07	148.55	0.001544	1.00	2.52	3.03	0.34
ValdiLago	12	Q18_Tr20	2.28	147.42	148.43	148.04	148.48	0.001646	0.98	2.32	3.03	0.35
ValdiLago	11.7		Bridge									
ValdiLago	011.5	Q18_Tr200	3.52	147.42	148.90	148.17	148.95	0.000966	0.95	3.69	3.03	0.27
ValdiLago	011.5	Q18_Tr100	3.22	147.42	148.86	148.15	148.90	0.000898	0.90	3.57	3.03	0.26
ValdiLago	011.5	Q18_Tr30	2.51	147.42	148.46	148.07	148.51	0.001835	1.05	2.38	3.03	0.37
ValdiLago	011.5	Q18_Tr20	2.28	147.42	148.39	148.04	148.45	0.001962	1.04	2.19	3.03	0.39
ValdiLago	11.49		Lat Struct									
ValdiLago	011.4	Q18_Tr200	3.50	147.42	148.79	148.21	148.91	0.003223	1.53	2.29	2.16	0.42
ValdiLago	011.4	Q18_Tr100	3.22	147.42	148.76	148.17	148.87	0.002958	1.44	2.24	1.99	0.40
ValdiLago	011.4	Q18_Tr30	2.51	147.42	148.29	148.06	148.45	0.005894	1.76	1.43	1.72	0.61
ValdiLago	011.4	Q18_Tr20	2.28	147.42	148.23	148.03	148.38	0.006036	1.73	1.32	1.72	0.63
ValdiLago	11.2		Bridge									

HEC-RAS Plan: Sa_perm_18 River: ValdiLago Reach: ValdiLago (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	11	Q18_Tr200	3.50	147.31	148.38	148.10	148.58	0.006516	1.97	1.77	1.72	0.62
ValdiLago	11	Q18_Tr100	3.22	147.31	148.33	148.06	148.52	0.006297	1.91	1.69	1.72	0.62
ValdiLago	11	Q18_Tr30	2.51	147.31	148.20	147.95	148.35	0.005575	1.72	1.46	1.72	0.60
ValdiLago	11	Q18_Tr20	2.28	147.31	148.14	147.92	148.28	0.005720	1.69	1.35	1.72	0.61
ValdiLago	10.9		Lat Struct									
ValdiLago	10.8		Lat Struct									
ValdiLago	10	Q18_Tr200	3.50	147.05	148.21	147.92	148.37	0.004545	1.77	1.97	2.21	0.60
ValdiLago	10	Q18_Tr100	3.22	147.05	148.16	147.88	148.32	0.004450	1.72	1.87	2.18	0.59
ValdiLago	10	Q18_Tr30	2.51	147.05	148.05	147.77	148.17	0.003859	1.54	1.63	2.10	0.56
ValdiLago	10	Q18_Tr20	2.28	147.05	147.97	147.73	148.09	0.004329	1.56	1.46	2.04	0.59
ValdiLago	09	Q18_Tr200	3.50	146.93	147.96	147.75	148.16	0.006081	1.97	1.77	2.02	0.67
ValdiLago	09	Q18_Tr100	3.22	146.93	147.94	147.71	148.12	0.005534	1.86	1.73	2.02	0.64
ValdiLago	09	Q18_Tr30	2.51	146.93	147.91	147.61	148.02	0.003734	1.51	1.66	2.01	0.53
ValdiLago	09	Q18_Tr20	2.28	146.93	147.77	147.58	147.91	0.004968	1.64	1.39	1.98	0.62
ValdiLago	08.5		Bridge									
ValdiLago	08	Q18_Tr200	3.50	146.74	147.57	147.43	147.76	0.005991	1.95	1.79	4.85	0.74
ValdiLago	08	Q18_Tr100	3.22	146.74	147.54	147.40	147.71	0.005887	1.88	1.72	4.44	0.72
ValdiLago	08	Q18_Tr30	2.51	146.74	147.45	147.32	147.59	0.005715	1.68	1.49	3.92	0.70
ValdiLago	08	Q18_Tr20	2.28	146.74	147.41	147.29	147.55	0.005693	1.62	1.41	3.73	0.69
ValdiLago	7.9		Lat Struct									
ValdiLago	7.8		Lat Struct									
ValdiLago	07	Q18_Tr200	3.50	146.51	147.36	147.18	147.50	0.005502	1.62	2.18	3.99	0.64
ValdiLago	07	Q18_Tr100	3.22	146.51	147.33	147.15	147.45	0.005562	1.58	2.05	3.66	0.64
ValdiLago	07	Q18_Tr30	2.51	146.51	147.22	147.07	147.33	0.005734	1.48	1.70	3.19	0.65
ValdiLago	07	Q18_Tr20	2.28	146.51	147.19	147.04	147.29	0.005807	1.44	1.58	3.12	0.65

HEC-RAS Plan: Sa_perm_18 River: ValdiLago Reach: ValdiLago (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	06	Q18_Tr200	3.50	145.92	146.97	146.75	147.09	0.004882	1.51	2.32	3.80	0.62
ValdiLago	06	Q18_Tr100	3.22	145.92	146.93	146.71	147.04	0.004892	1.48	2.17	3.65	0.61
ValdiLago	06	Q18_Tr30	2.51	145.92	146.82	146.62	146.92	0.004933	1.41	1.78	3.22	0.61
ValdiLago	06	Q18_Tr20	2.28	145.92	146.77	146.59	146.87	0.004966	1.39	1.65	3.10	0.61
ValdiLago	05	Q18_Tr200	3.50	145.42	146.43	146.23	146.56	0.005586	1.60	2.19	3.60	0.65
ValdiLago	05	Q18_Tr100	3.22	145.42	146.39	146.19	146.51	0.005589	1.57	2.06	3.47	0.65
ValdiLago	05	Q18_Tr30	2.51	145.42	146.28	146.10	146.39	0.005470	1.47	1.71	3.12	0.63
ValdiLago	05	Q18_Tr20	2.28	145.42	146.24	146.06	146.35	0.005460	1.44	1.59	2.98	0.63
ValdiLago	04	Q18_Tr200	3.50	144.84	145.82	145.69	145.97	0.006948	1.71	2.05	3.71	0.73
ValdiLago	04	Q18_Tr100	3.22	144.84	145.79	145.66	145.93	0.006813	1.66	1.94	3.60	0.72
ValdiLago	04	Q18_Tr30	2.51	144.84	145.70	145.57	145.82	0.006681	1.55	1.62	3.28	0.71
ValdiLago	04	Q18_Tr20	2.28	144.84	145.66	145.53	145.78	0.006647	1.51	1.51	3.16	0.70
ValdiLago	03	Q18_Tr200	3.50	144.33	145.43	145.31	145.58	0.008228	1.72	2.03	3.97	0.77
ValdiLago	03	Q18_Tr100	3.22	144.33	145.39	145.28	145.54	0.008559	1.73	1.86	3.72	0.78
ValdiLago	03	Q18_Tr30	2.51	144.33	145.27	145.18	145.42	0.009068	1.70	1.48	3.10	0.78
ValdiLago	03	Q18_Tr20	2.28	144.33	145.23	145.14	145.38	0.009239	1.68	1.36	2.93	0.79
ValdiLago	02	Q18_Tr200	3.50	144.16	145.12	144.96	145.29	0.006771	1.78	1.97	2.92	0.69
ValdiLago	02	Q18_Tr100	3.22	144.16	145.09	144.92	145.24	0.006691	1.73	1.86	2.86	0.69
ValdiLago	02	Q18_Tr30	2.51	144.16	144.98	144.83	145.11	0.006504	1.60	1.56	2.71	0.67
ValdiLago	02	Q18_Tr20	2.28	144.16	144.95	144.80	145.07	0.006421	1.56	1.47	2.65	0.67
ValdiLago	01.5		Bridge									
ValdiLago	01.4	Q18_Tr200	3.50	144.16	144.96	144.96	145.24	0.014337	2.34	1.49	2.67	1.00
ValdiLago	01.4	Q18_Tr100	3.22	144.16	144.92	144.92	145.19	0.014467	2.30	1.40	2.62	1.00
ValdiLago	01.4	Q18_Tr30	2.51	144.16	144.83	144.83	145.06	0.014591	2.15	1.17	2.48	1.00
ValdiLago	01.4	Q18_Tr20	2.28	144.16	144.80	144.80	145.02	0.014788	2.10	1.09	2.43	1.00
ValdiLago	01	Q18_Tr200	3.50	144.28	144.87	144.87	145.08	0.013150	2.07	1.69	3.84	1.00
ValdiLago	01	Q18_Tr100	3.22	144.28	144.84	144.84	145.05	0.013315	2.04	1.58	3.74	1.00

HEC-RAS Plan: Sa_perm_18 River: ValdiLago Reach: ValdiLago (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ValdiLago	01	Q18_Tr30	2.51	144.28	144.75	144.75	144.95	0.013956	1.95	1.29	3.40	1.01
ValdiLago	01	Q18_Tr20	2.28	144.28	144.73	144.73	144.91	0.013786	1.88	1.21	3.33	1.00

HEC-RAS Plan: Sa_perm_18

Storage Area	Profile	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
		(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
11.49_DX	Q18_Tr200	142.00	142.00	0.02	100.00	0.00
11.49_DX	Q18_Tr100	142.00	142.00	0.00	100.00	0.00
11.49_DX	Q18_Tr30	142.00	142.00	0.00	100.00	0.00
11.49_DX	Q18_Tr20	142.00	142.00	0.00	100.00	0.00
12.9_DX	Q18_Tr200	142.00	142.00	0.37	100.00	0.00
12.9_DX	Q18_Tr100	142.00	142.00	0.10	100.00	0.00
12.9_DX	Q18_Tr30	142.00	142.00	0.00	100.00	0.00
12.9_DX	Q18_Tr20	142.00	142.00	0.00	100.00	0.00
13.88_SX	Q18_Tr200	142.00	142.00	0.00	100.00	0.00
13.88_SX	Q18_Tr100	142.00	142.00	0.00	100.00	0.00
13.88_SX	Q18_Tr30	142.00	142.00	0.00	100.00	0.00
13.88_SX	Q18_Tr20	142.00	142.00	0.00	100.00	0.00
14.9_DX	Q18_Tr200	142.00	142.00	0.00	100.00	0.00
14.9_DX	Q18_Tr100	142.00	142.00	0.00	100.00	0.00
14.9_DX	Q18_Tr30	142.00	142.00	0.00	100.00	0.00
14.9_DX	Q18_Tr20	142.00	142.00	0.00	100.00	0.00
24.8_SX	Q18_Tr200	142.00	142.00	0.00	100.00	0.00
24.8_SX	Q18_Tr100	142.00	142.00	0.00	100.00	0.00
24.8_SX	Q18_Tr30	142.00	142.00	0.00	100.00	0.00
24.8_SX	Q18_Tr20	142.00	142.00	0.00	100.00	0.00
33.8_SX	Q18_Tr200	142.00	142.00	0.00	100.00	0.00
33.8_SX	Q18_Tr100	142.00	142.00	0.00	100.00	0.00
33.8_SX	Q18_Tr30	142.00	142.00	0.00	100.00	0.00
33.8_SX	Q18_Tr20	142.00	142.00	0.00	100.00	0.00
33.9_DX	Q18_Tr200	142.00	142.00	0.00	100.00	0.00
33.9_DX	Q18_Tr100	142.00	142.00	0.00	100.00	0.00
33.9_DX	Q18_Tr30	142.00	142.00	0.00	100.00	0.00
33.9_DX	Q18_Tr20	142.00	142.00	0.00	100.00	0.00

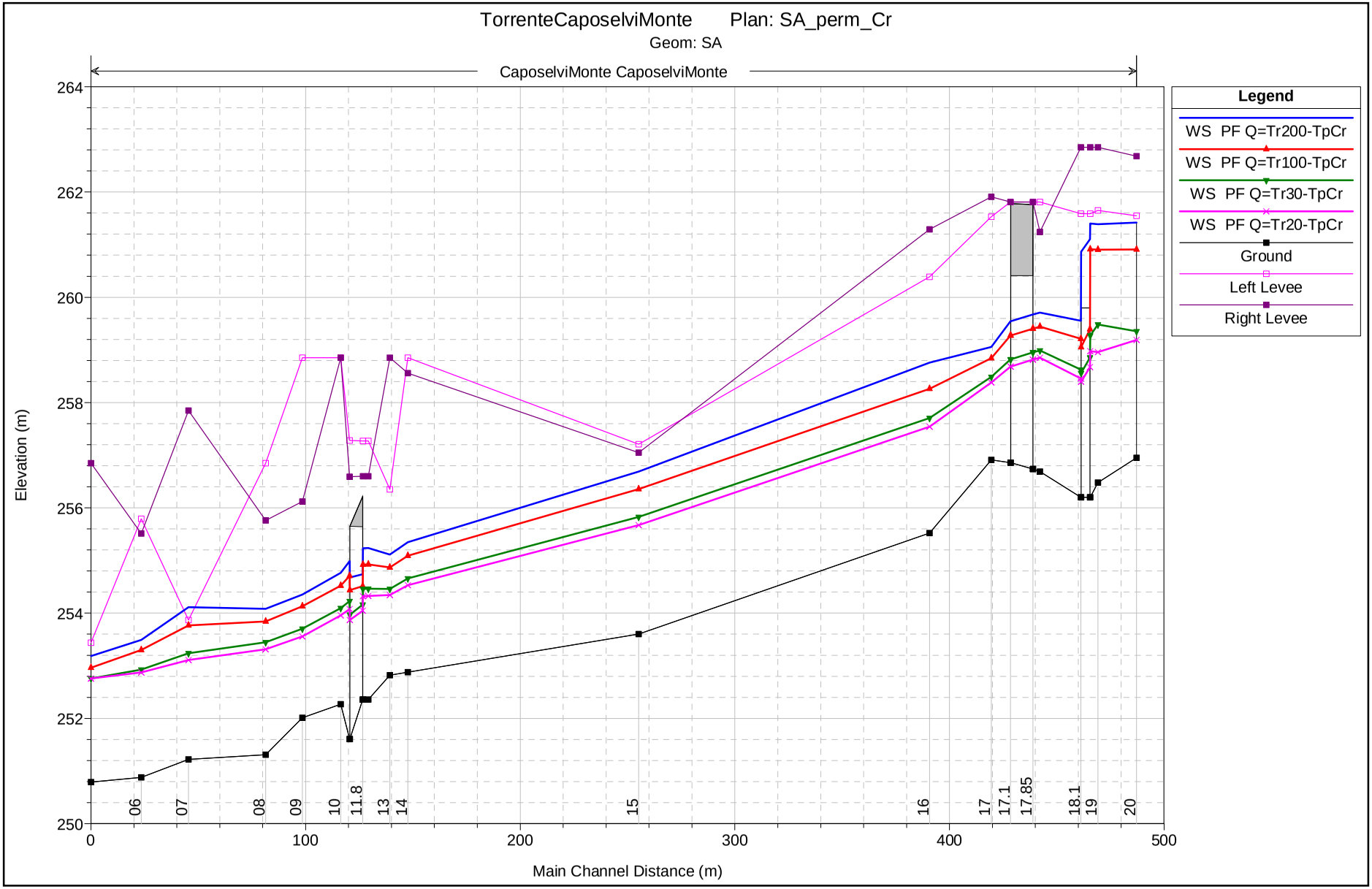
HEC-RAS Plan: Sa_perm_18 (Continued)

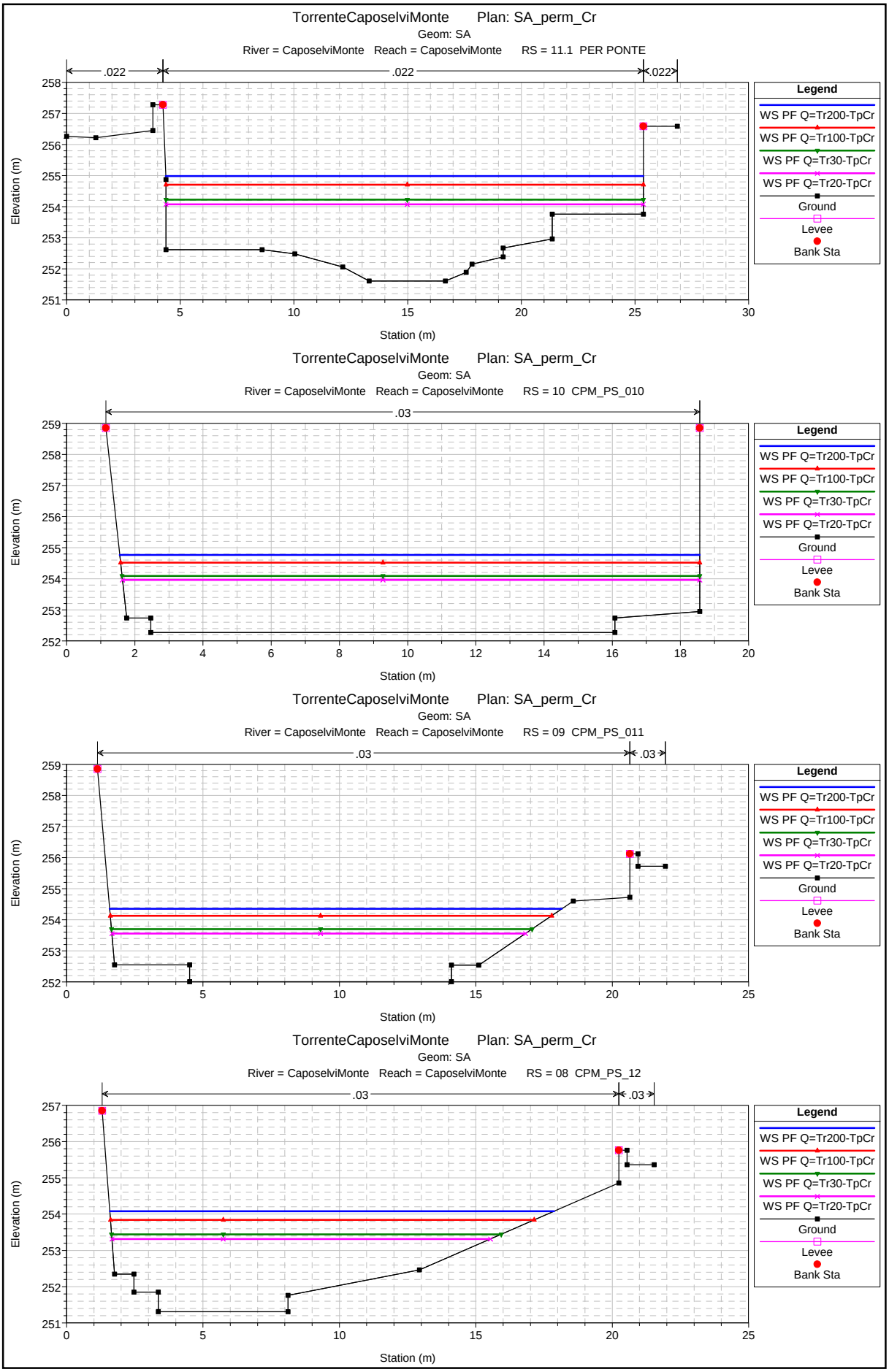
Storage Area	Profile	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
		(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
dx_10.8	Q18_Tr200	142.00	142.00	0.00	100.00	0.00
dx_10.8	Q18_Tr100	142.00	142.00	0.00	100.00	0.00
dx_10.8	Q18_Tr30	142.00	142.00	0.00	100.00	0.00
dx_10.8	Q18_Tr20	142.00	142.00	0.00	100.00	0.00
dx_7.8	Q18_Tr200	142.00	142.00	0.00	100.00	0.00
dx_7.8	Q18_Tr100	142.00	142.00	0.00	100.00	0.00
dx_7.8	Q18_Tr30	142.00	142.00	0.00	100.00	0.00
dx_7.8	Q18_Tr20	142.00	142.00	0.00	100.00	0.00
sx_10.9	Q18_Tr200	142.00	142.00	0.00	100.00	0.00
sx_10.9	Q18_Tr100	142.00	142.00	0.00	100.00	0.00
sx_10.9	Q18_Tr30	142.00	142.00	0.00	100.00	0.00
sx_10.9	Q18_Tr20	142.00	142.00	0.00	100.00	0.00
sx_7.9	Q18_Tr200	142.00	142.00	0.00	100.00	0.00
sx_7.9	Q18_Tr100	142.00	142.00	0.00	100.00	0.00
sx_7.9	Q18_Tr30	142.00	142.00	0.00	100.00	0.00
sx_7.9	Q18_Tr20	142.00	142.00	0.00	100.00	0.00

torrente Caposelvi (loc. Mercatale)

verifiche con Tpioggia critico per il Torrente Caposelvi (loc. Mercatale)

- moto permanente
  Tr=200, 100, 30 e 20 anni
  profilo
  livelli idrici nelle sezioni di verifica
  tabella di output del software Hec-ras 4.0

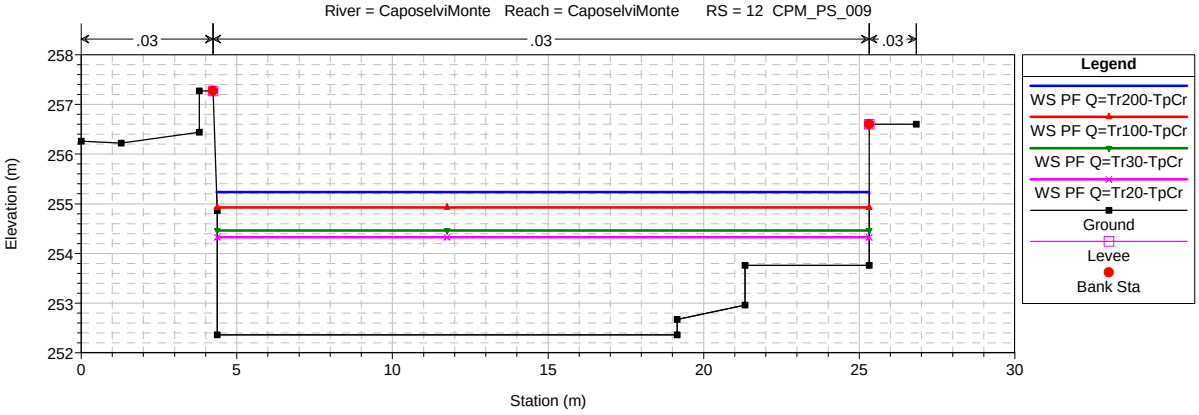

TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
CaposelviMonte CaposelviMonte
Legend
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WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Left Levee
Right Levee
Elevation (m)
264
262
260
258
256
254
252
250
0
100
200
300
400
500
Main Channel Distance (m)
06
07
08
09
10
11.8
13
14
15
16
17
17.1
17.85
18.1
19
20


TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 11.1 PER PONTE
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 10 CPM_PS_010
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 09 CPM_PS_011
.03
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 08 CPM_PS_12
.03
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta

TorrenteCaposelviMonte Plan: SA_perm_Cr

Geom: SA

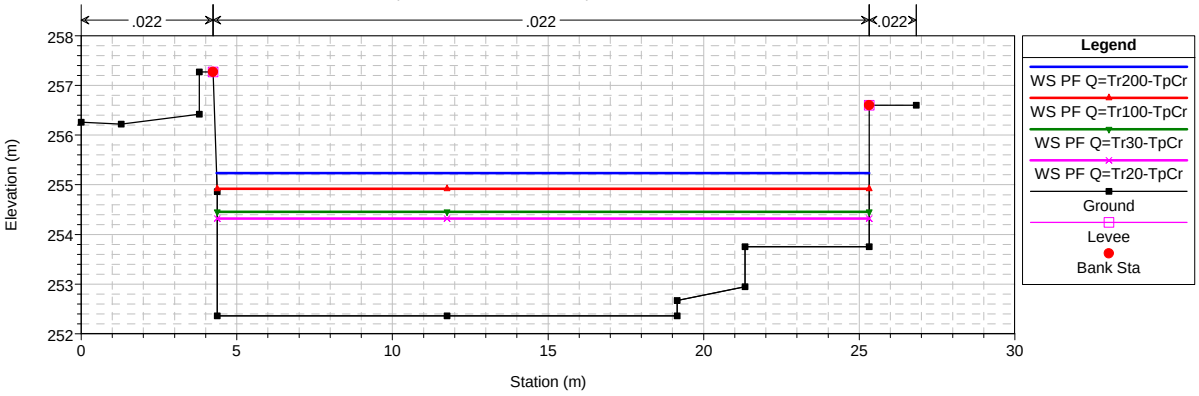
River = CaposelviMonte Reach = CaposelviMonte RS = 12 CPM_PS_009



TorrenteCaposelviMonte Plan: SA_perm_Cr

Geom: SA

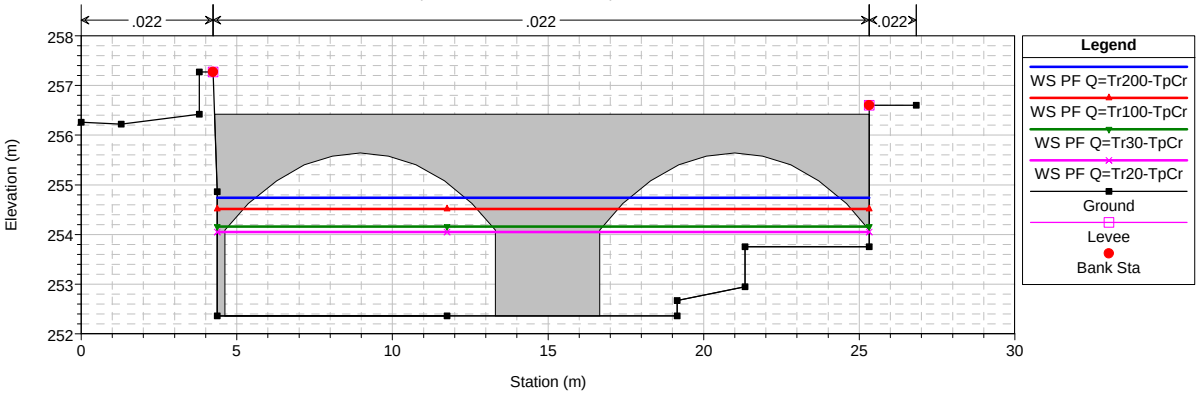
River = CaposelviMonte Reach = CaposelviMonte RS = 11.9 PER PONTE



TorrenteCaposelviMonte Plan: SA_perm_Cr

Geom: SA

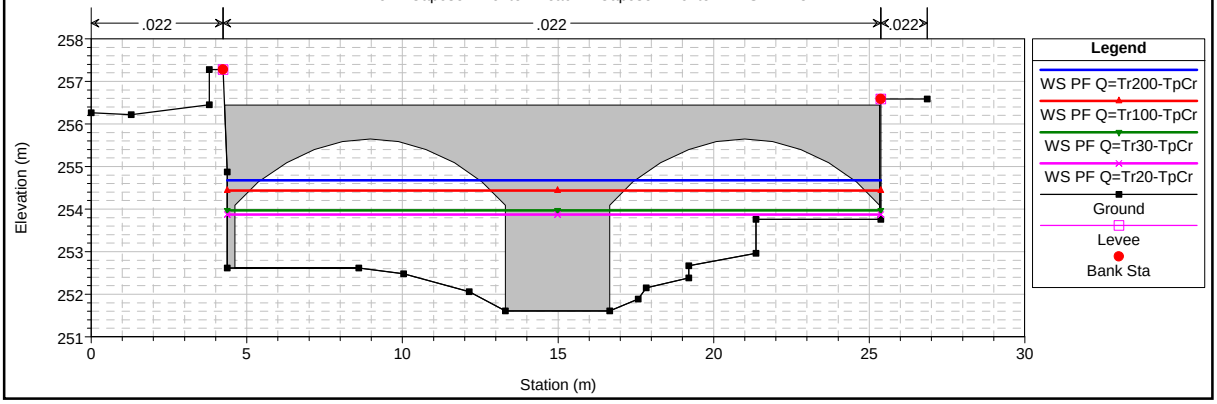
River = CaposelviMonte Reach = CaposelviMonte RS = 11.8 BR

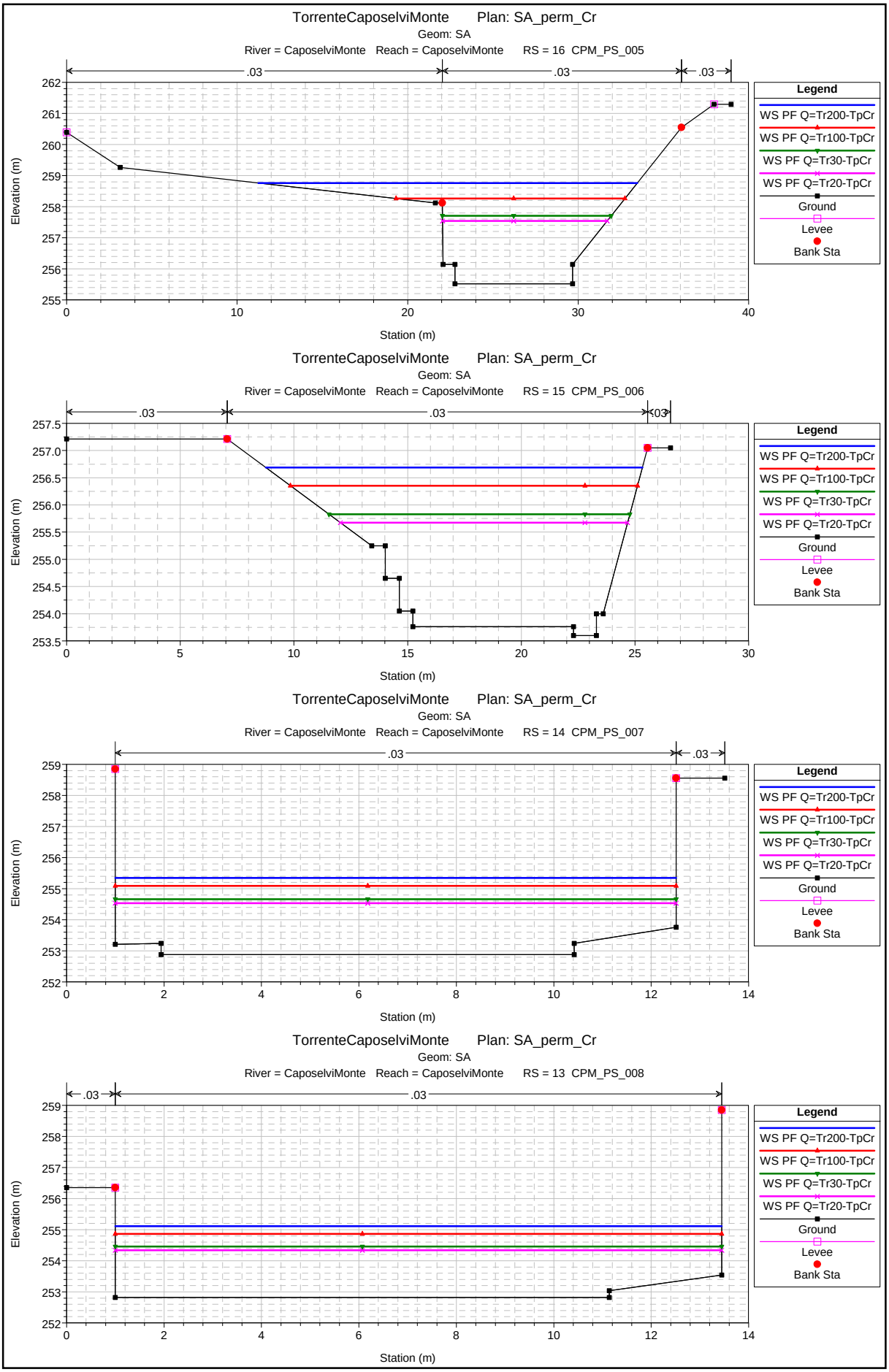


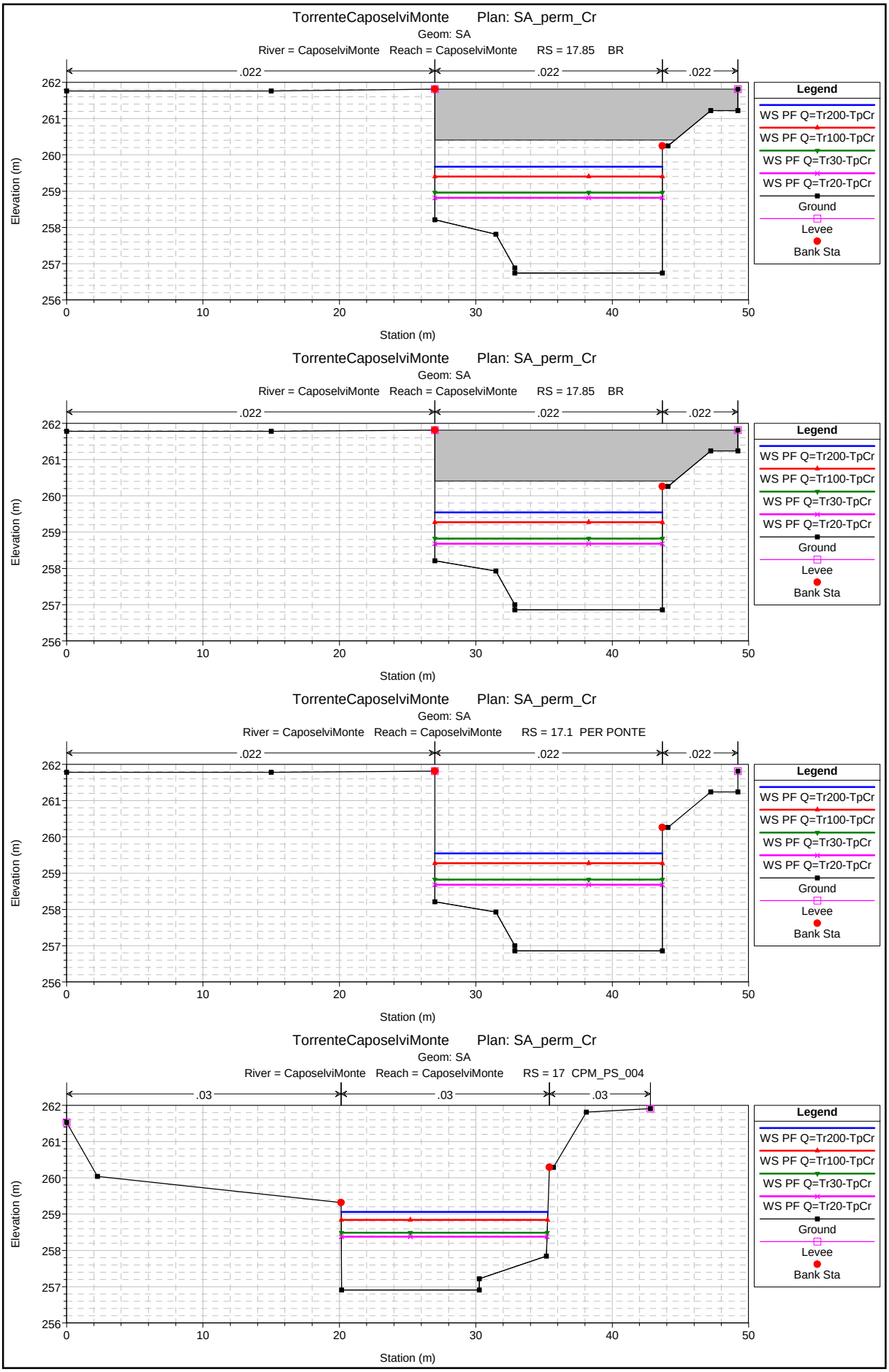
TorrenteCaposelviMonte Plan: SA_perm_Cr

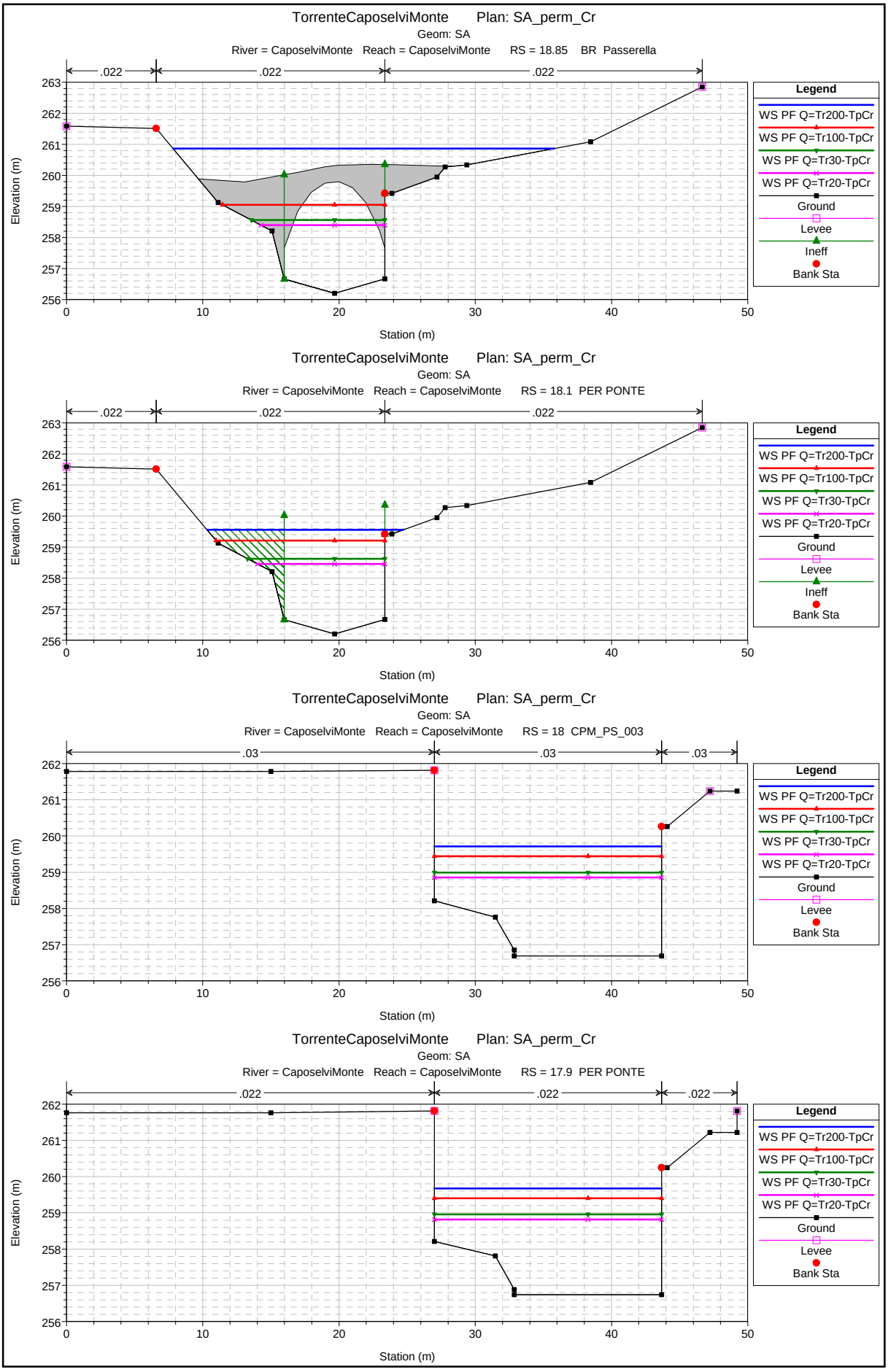
Geom: SA

River = CaposelviMonte Reach = CaposelviMonte RS = 11.8 BR




TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 16 CPM_PS_005
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 15 CPM_PS_006
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 14 CPM_PS_007
.03
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 13 CPM_PS_008
.03
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta

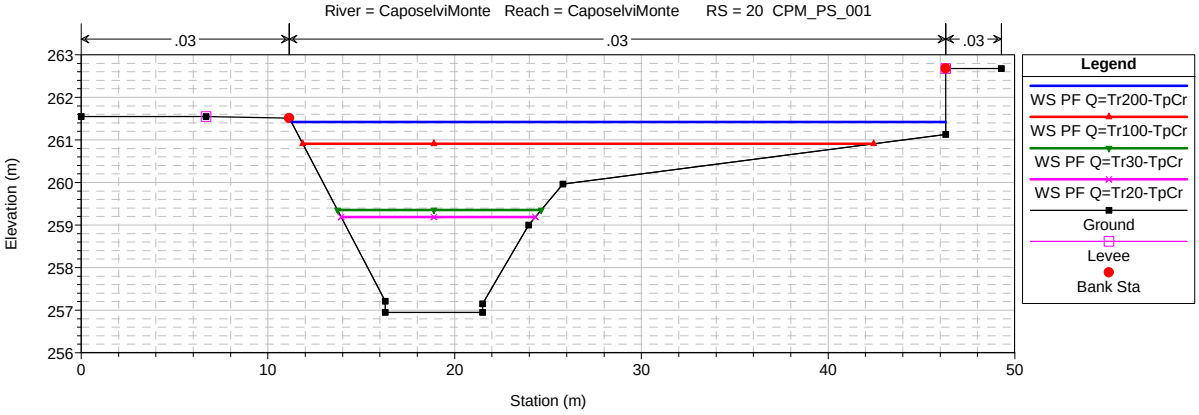

TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 17.85 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 17.85 BR
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 17.1 PER PONTE
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 17 CPM_PS_004
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta


TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 18.85 BR Passerella
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Ineff
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 18.1 PER PONTE
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Ineff
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 18 CPM_PS_003
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta
TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 17.9 PER PONTE
.022
.022
.022
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta

TorrenteCaposelviMonte Plan: SA_perm_Cr

Geom: SA

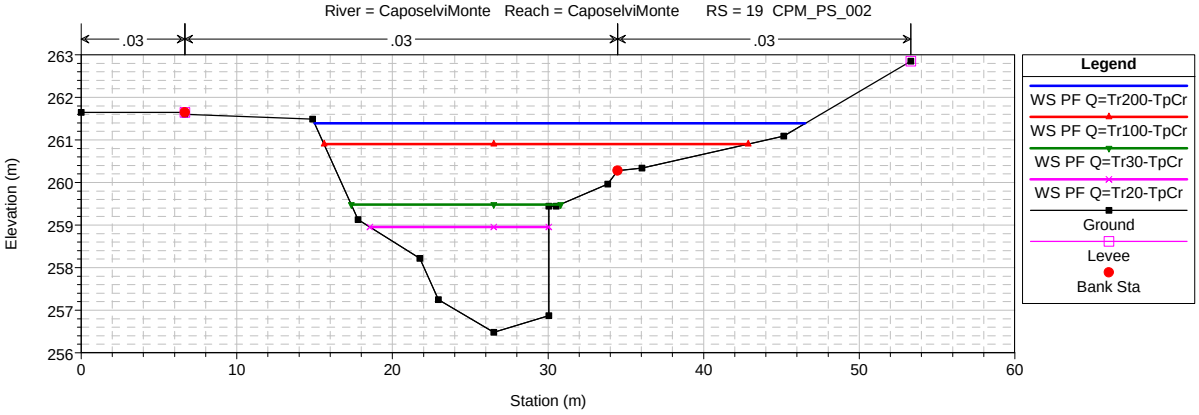
River = CaposelviMonte Reach = CaposelviMonte RS = 20 CPM_PS_001



TorrenteCaposelviMonte Plan: SA_perm_Cr

Geom: SA

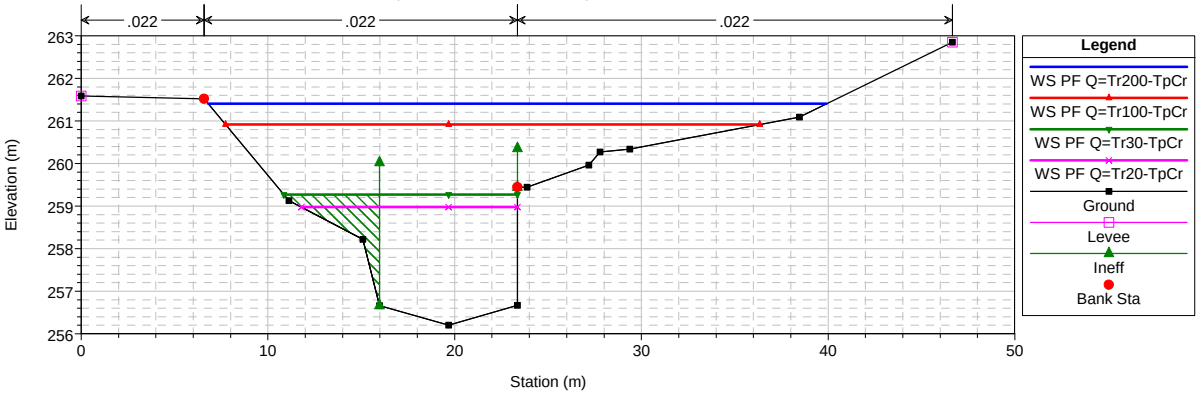
River = CaposelviMonte Reach = CaposelviMonte RS = 19 CPM_PS_002



TorrenteCaposelviMonte Plan: SA_perm_Cr

Geom: SA

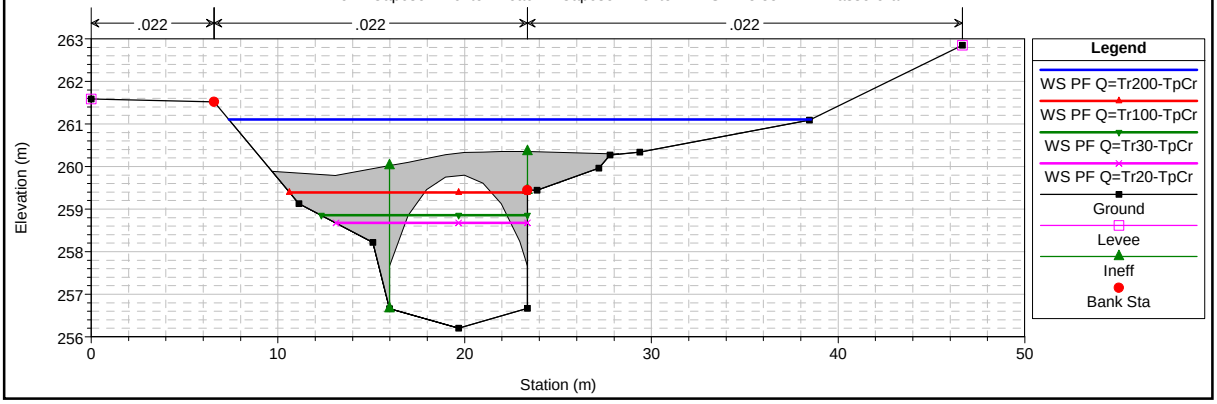
River = CaposelviMonte Reach = CaposelviMonte RS = 18.9 PER PONTE

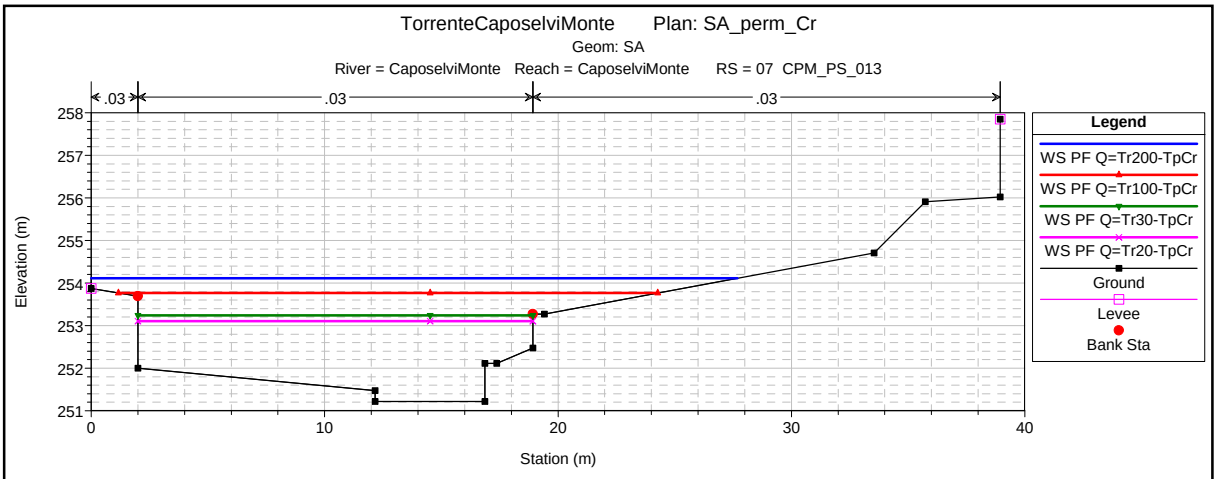


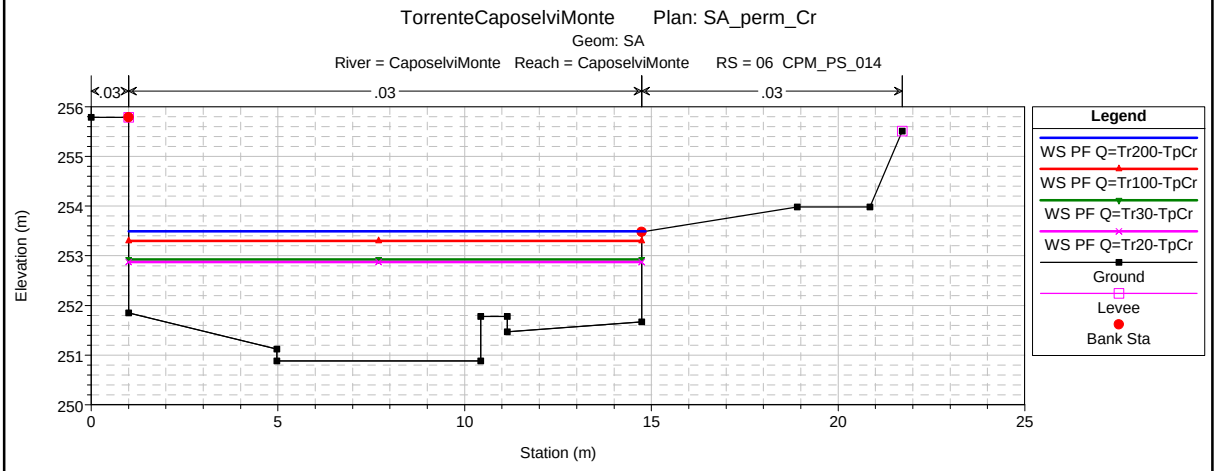
TorrenteCaposelviMonte Plan: SA_perm_Cr

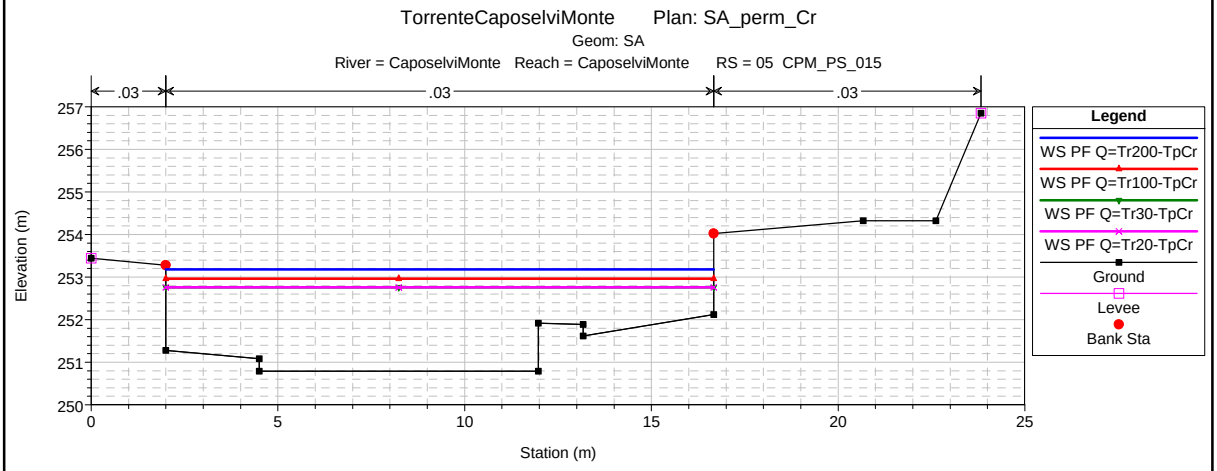
Geom: SA

River = CaposelviMonte Reach = CaposelviMonte RS = 18.85 BR Passerella




TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 07 CPM_PS_013
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta


TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 06 CPM_PS_014
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta


TorrenteCaposelviMonte Plan: SA_perm_Cr
Geom: SA
River = CaposelviMonte Reach = CaposelviMonte RS = 05 CPM_PS_015
.03
.03
.03
Elevation (m)
Station (m)
Legend
WS PF Q=Tr200-TpCr
WS PF Q=Tr100-TpCr
WS PF Q=Tr30-TpCr
WS PF Q=Tr20-TpCr
Ground
Levee
Bank Sta

HEC-RAS Plan: SA_perm_Cr River: CaposelviMonte Reach: CaposelviMonte

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
CaposelviMonte	20	PF Q=Tr200-TpCr	127.51	256.95	261.42	260.36	261.62	0.001837	2.01	63.55	35.03	0.48
CaposelviMonte	20	PF Q=Tr100-TpCr	107.07	256.95	260.91	259.85	261.18	0.003090	2.31	46.33	30.58	0.60
CaposelviMonte	20	PF Q=Tr30-TpCr	75.71	256.95	259.35	259.35	260.20	0.009238	4.09	18.52	10.90	1.00
CaposelviMonte	20	PF Q=Tr20-TpCr	66.79	256.95	259.19	259.19	260.00	0.009383	3.98	16.77	10.39	1.00
CaposelviMonte	19	PF Q=Tr200-TpCr	127.51	256.48	261.39	259.84	261.60	0.001141	2.07	66.45	31.53	0.38
CaposelviMonte	19	PF Q=Tr100-TpCr	107.07	256.48	260.90	259.53	261.13	0.001488	2.15	51.89	27.25	0.43
CaposelviMonte	19	PF Q=Tr30-TpCr	75.71	256.48	259.48	259.04	259.96	0.005045	3.07	24.67	13.46	0.72
CaposelviMonte	19	PF Q=Tr20-TpCr	66.79	256.48	258.96	258.87	259.65	0.008709	3.68	18.16	11.51	0.93
CaposelviMonte	18.9	PF Q=Tr200-TpCr	127.51	256.20	261.40	259.55	261.59	0.000522	2.00	71.66	33.13	0.35
CaposelviMonte	18.9	PF Q=Tr100-TpCr	107.07	256.20	260.91	259.21	261.12	0.000646	2.08	56.36	28.62	0.38
CaposelviMonte	18.9	PF Q=Tr30-TpCr	75.71	256.20	259.27	258.63	259.93	0.002350	3.60	21.02	12.52	0.68
CaposelviMonte	18.9	PF Q=Tr20-TpCr	66.79	256.20	258.98	258.46	259.62	0.002542	3.55	18.82	11.58	0.71
CaposelviMonte	18.85		Bridge									
CaposelviMonte	18.1	PF Q=Tr200-TpCr	127.51	256.20	259.55	259.55	261.11	0.004970	5.52	23.09	14.39	1.00
CaposelviMonte	18.1	PF Q=Tr100-TpCr	107.07	256.20	259.21	259.21	260.59	0.005025	5.21	20.55	12.40	1.00
CaposelviMonte	18.1	PF Q=Tr30-TpCr	75.71	256.20	258.63	258.63	259.73	0.005087	4.66	16.24	10.08	1.00
CaposelviMonte	18.1	PF Q=Tr20-TpCr	66.79	256.20	258.46	258.46	259.47	0.005063	4.46	14.97	9.34	1.00
CaposelviMonte	18	PF Q=Tr200-TpCr	127.51	256.69	259.71	258.90	260.14	0.002991	2.91	43.77	16.69	0.57
CaposelviMonte	18	PF Q=Tr100-TpCr	107.07	256.69	259.44	258.70	259.82	0.002928	2.73	39.27	16.69	0.57
CaposelviMonte	18	PF Q=Tr30-TpCr	75.71	256.69	258.99	258.37	259.28	0.002811	2.39	31.73	16.69	0.55
CaposelviMonte	18	PF Q=Tr20-TpCr	66.79	256.69	258.85	258.27	259.11	0.002762	2.27	29.42	16.69	0.55
CaposelviMonte	17.9	PF Q=Tr200-TpCr	127.51	256.74	259.67	258.94	260.13	0.001769	3.01	42.43	16.69	0.60
CaposelviMonte	17.9	PF Q=Tr100-TpCr	107.07	256.74	259.41	258.75	259.81	0.001749	2.82	37.95	16.69	0.60
CaposelviMonte	17.9	PF Q=Tr30-TpCr	75.71	256.74	258.96	258.41	259.27	0.001719	2.49	30.45	16.69	0.59
CaposelviMonte	17.9	PF Q=Tr20-TpCr	66.79	256.74	258.82	258.31	259.11	0.001705	2.37	28.16	16.69	0.58
CaposelviMonte	17.85		Bridge									
CaposelviMonte	17.1	PF Q=Tr200-TpCr	127.51	256.86	259.54	259.05	260.10	0.002379	3.31	38.54	16.69	0.70
CaposelviMonte	17.1	PF Q=Tr100-TpCr	107.07	256.86	259.27	258.85	259.78	0.002453	3.15	34.03	16.69	0.70
CaposelviMonte	17.1	PF Q=Tr30-TpCr	75.71	256.86	258.82	258.52	259.24	0.002676	2.86	26.45	16.69	0.73
CaposelviMonte	17.1	PF Q=Tr20-TpCr	66.79	256.86	258.68	258.41	259.07	0.002773	2.77	24.14	16.69	0.73

HEC-RAS Plan: SA_perm_Cr River: CaposelviMonte Reach: CaposelviMonte (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
CaposelviMonte	17	PF Q=Tr200-TpCr	127.51	256.91	259.06	259.06	260.02	0.009394	4.35	29.30	15.15	1.00
CaposelviMonte	17	PF Q=Tr100-TpCr	107.07	256.91	258.85	258.85	259.70	0.009474	4.11	26.07	15.13	1.00
CaposelviMonte	17	PF Q=Tr30-TpCr	75.71	256.91	258.49	258.49	259.17	0.009710	3.66	20.69	15.10	1.00
CaposelviMonte	17	PF Q=Tr20-TpCr	66.79	256.91	258.38	258.38	259.01	0.009808	3.51	19.04	15.08	1.00
CaposelviMonte	16	PF Q=Tr200-TpCr	127.51	255.52	258.76	258.76	259.63	0.006781	4.20	32.80	22.22	0.84
CaposelviMonte	16	PF Q=Tr100-TpCr	107.07	255.52	258.26	258.26	259.30	0.009549	4.51	23.93	13.42	0.97
CaposelviMonte	16	PF Q=Tr30-TpCr	75.71	255.52	257.70	257.70	258.61	0.010558	4.22	17.96	9.90	1.00
CaposelviMonte	16	PF Q=Tr20-TpCr	66.79	255.52	257.54	257.54	258.39	0.010682	4.08	16.37	9.66	1.00
CaposelviMonte	15	PF Q=Tr200-TpCr	127.51	253.60	256.69	256.41	257.41	0.006388	3.75	33.96	16.57	0.84
CaposelviMonte	15	PF Q=Tr100-TpCr	107.07	253.60	256.35	256.16	257.07	0.007162	3.74	28.64	15.27	0.87
CaposelviMonte	15	PF Q=Tr30-TpCr	75.71	253.60	255.83	255.71	256.48	0.008179	3.58	21.16	13.23	0.90
CaposelviMonte	15	PF Q=Tr20-TpCr	66.79	253.60	255.67	255.55	256.29	0.008369	3.49	19.15	12.63	0.90
CaposelviMonte	14	PF Q=Tr200-TpCr	127.51	252.88	255.35	255.35	256.50	0.010306	4.76	26.76	11.51	1.00
CaposelviMonte	14	PF Q=Tr100-TpCr	107.07	252.88	255.09	255.09	256.12	0.010264	4.50	23.82	11.51	1.00
CaposelviMonte	14	PF Q=Tr30-TpCr	75.71	252.88	254.66	254.66	255.48	0.010310	4.01	18.88	11.51	1.00
CaposelviMonte	14	PF Q=Tr20-TpCr	66.79	252.88	254.53	254.53	255.28	0.010326	3.84	17.38	11.51	1.00
CaposelviMonte	13	PF Q=Tr200-TpCr	127.51	252.82	255.11	255.11	256.21	0.009901	4.64	27.47	12.45	1.00
CaposelviMonte	13	PF Q=Tr100-TpCr	107.07	252.82	254.87	254.87	255.85	0.009953	4.39	24.40	12.45	1.00
CaposelviMonte	13	PF Q=Tr30-TpCr	75.71	252.82	254.46	254.46	255.24	0.010090	3.92	19.33	12.45	1.00
CaposelviMonte	13	PF Q=Tr20-TpCr	66.79	252.82	254.34	254.34	255.05	0.010010	3.74	17.86	12.45	1.00
CaposelviMonte	12	PF Q=Tr200-TpCr	127.51	252.36	255.24	254.23	255.52	0.001974	2.38	53.69	20.97	0.47
CaposelviMonte	12	PF Q=Tr100-TpCr	107.07	252.36	254.93	254.06	255.19	0.002073	2.27	47.19	20.95	0.48
CaposelviMonte	12	PF Q=Tr30-TpCr	75.71	252.36	254.46	253.69	254.67	0.002130	2.02	37.46	20.95	0.48
CaposelviMonte	12	PF Q=Tr20-TpCr	66.79	252.36	254.33	253.59	254.52	0.002130	1.93	34.60	20.95	0.48
CaposelviMonte	11.9	PF Q=Tr200-TpCr	127.51	252.36	255.23	254.23	255.52	0.001064	2.38	53.65	20.97	0.47
CaposelviMonte	11.9	PF Q=Tr100-TpCr	107.07	252.36	254.92	254.06	255.18	0.001118	2.27	47.15	20.95	0.48
CaposelviMonte	11.9	PF Q=Tr30-TpCr	75.71	252.36	254.46	253.69	254.67	0.001150	2.02	37.42	20.95	0.48
CaposelviMonte	11.9	PF Q=Tr20-TpCr	66.79	252.36	254.32	253.58	254.51	0.001150	1.93	34.56	20.95	0.48
CaposelviMonte	11.8		Bridge									

HEC-RAS Plan: SA_perm_Cr River: CaposelviMonte Reach: CaposelviMonte (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
CaposelviMonte	11.1	PF Q=Tr200-TpCr	127.51	251.61	254.99	254.10	255.30	0.001210	2.49	51.28	21.01	0.51
CaposelviMonte	11.1	PF Q=Tr100-TpCr	107.07	251.61	254.71	253.93	254.99	0.001242	2.36	45.43	21.00	0.51
CaposelviMonte	11.1	PF Q=Tr30-TpCr	75.71	251.61	254.23	253.52	254.46	0.001360	2.14	35.36	21.00	0.53
CaposelviMonte	11.1	PF Q=Tr20-TpCr	66.79	251.61	254.08	253.42	254.30	0.001421	2.07	32.21	21.00	0.53
CaposelviMonte	10	PF Q=Tr200-TpCr	127.51	252.27	254.77	254.18	255.27	0.003885	3.15	40.43	17.01	0.65
CaposelviMonte	10	PF Q=Tr100-TpCr	107.07	252.27	254.52	253.98	254.97	0.003818	2.95	36.26	16.99	0.65
CaposelviMonte	10	PF Q=Tr30-TpCr	75.71	252.27	254.09	253.65	254.44	0.003810	2.61	28.98	16.95	0.64
CaposelviMonte	10	PF Q=Tr20-TpCr	66.79	252.27	253.96	253.55	254.28	0.003823	2.50	26.71	16.93	0.64
CaposelviMonte	09	PF Q=Tr200-TpCr	127.51	252.01	254.35	254.22	255.15	0.007389	3.96	32.17	16.57	0.91
CaposelviMonte	09	PF Q=Tr100-TpCr	107.07	252.01	254.13	254.01	254.85	0.007419	3.75	28.55	16.18	0.90
CaposelviMonte	09	PF Q=Tr30-TpCr	75.71	252.01	253.70	253.64	254.32	0.008345	3.48	21.78	15.42	0.93
CaposelviMonte	09	PF Q=Tr20-TpCr	66.79	252.01	253.56	253.52	254.15	0.008944	3.41	19.59	15.16	0.96
CaposelviMonte	08	PF Q=Tr200-TpCr	127.51	251.31	254.08	254.08	255.00	0.009208	4.24	30.04	16.28	1.00
CaposelviMonte	08	PF Q=Tr100-TpCr	107.07	251.31	253.84	253.84	254.69	0.009478	4.08	26.26	15.54	1.00
CaposelviMonte	08	PF Q=Tr30-TpCr	75.71	251.31	253.44	253.44	254.15	0.009831	3.73	20.32	14.28	1.00
CaposelviMonte	08	PF Q=Tr20-TpCr	66.79	251.31	253.32	253.32	253.98	0.010023	3.61	18.49	13.87	1.00
CaposelviMonte	07	PF Q=Tr200-TpCr	127.51	251.22	254.11	253.48	254.54	0.003070	2.95	46.18	27.68	0.60
CaposelviMonte	07	PF Q=Tr100-TpCr	107.07	251.22	253.77	253.25	254.21	0.003787	2.96	37.22	23.11	0.65
CaposelviMonte	07	PF Q=Tr30-TpCr	75.71	251.22	253.24	252.92	253.64	0.004877	2.82	26.85	16.93	0.71
CaposelviMonte	07	PF Q=Tr20-TpCr	66.79	251.22	253.11	252.82	253.48	0.004985	2.71	24.61	16.93	0.72
CaposelviMonte	06	PF Q=Tr200-TpCr	127.51	250.88	253.49	253.35	254.39	0.008321	4.20	30.37	13.84	0.90
CaposelviMonte	06	PF Q=Tr100-TpCr	107.07	250.88	253.30	253.12	254.06	0.007738	3.86	27.72	13.74	0.87
CaposelviMonte	06	PF Q=Tr30-TpCr	75.71	250.88	252.93	252.74	253.50	0.007260	3.35	22.57	13.74	0.84
CaposelviMonte	06	PF Q=Tr20-TpCr	66.79	250.88	252.87	252.62	253.35	0.006219	3.05	21.88	13.74	0.77
CaposelviMonte	05	PF Q=Tr200-TpCr	127.51	250.79	253.18	253.18	254.17	0.010145	4.40	29.01	14.67	1.00
CaposelviMonte	05	PF Q=Tr100-TpCr	107.07	250.79	252.96	252.96	253.84	0.010246	4.15	25.81	14.67	1.00
CaposelviMonte	05	PF Q=Tr30-TpCr	75.71	250.79	252.76	252.60	253.32	0.007516	3.32	22.81	14.67	0.85
CaposelviMonte	05	PF Q=Tr20-TpCr	66.79	250.79	252.76	252.49	253.20	0.005849	2.93	22.81	14.67	0.75

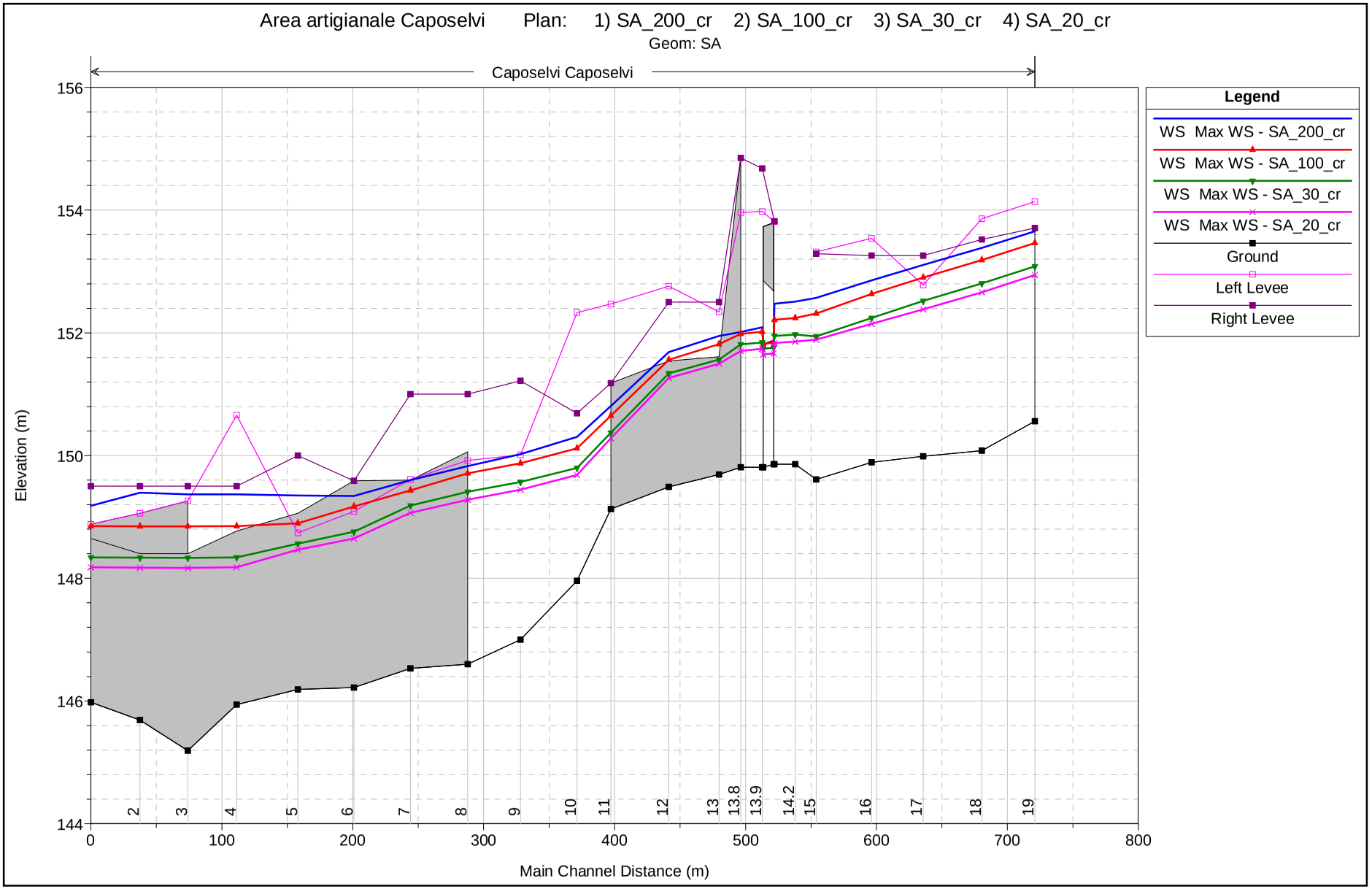
torrente Caposelvi

verifiche con Tpioggia critico per il Torrente Caposelvi

- moto vario
  Tr=200, 100, 30 e 20 anni
  profilo
  livelli idrici nelle sezioni di verifica
  tabella di output del software Hec-ras 4.0
  livelli e portate in ingresso alle aree di accumulo

verifiche con Tpioggia critico per il fiume Arno

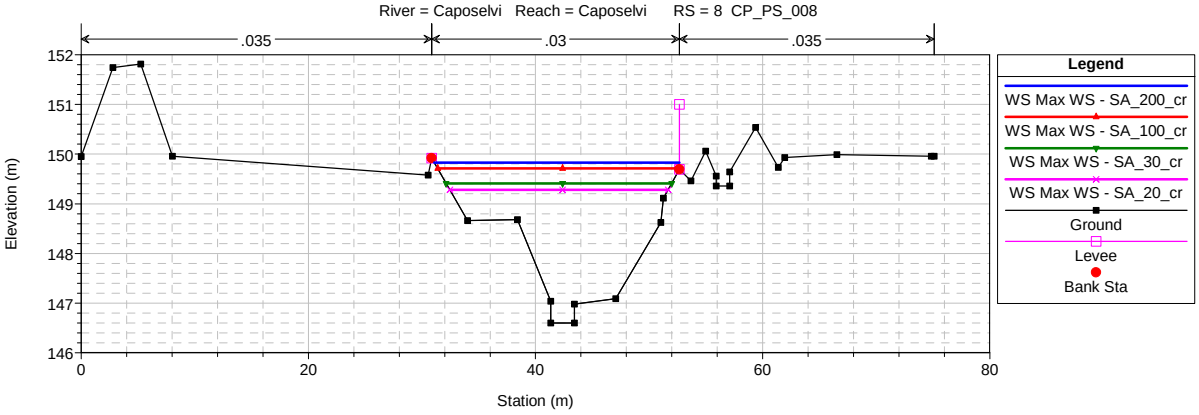
- moto permanente
  Tr=200, 100, 30 e 20 anni
  profilo
  livelli idrici nelle sezioni di verifica
  tabella di output del software Hec-ras 4.0


Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
Caposelvi Caposelvi
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
156
154
152
150
148
146
144
0
100
200
300
400
500
600
700
800
2
3
4
5
6
7
8
9
10
11
12
13
13.8
13.9
14.2
15
16
17
18
19

Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

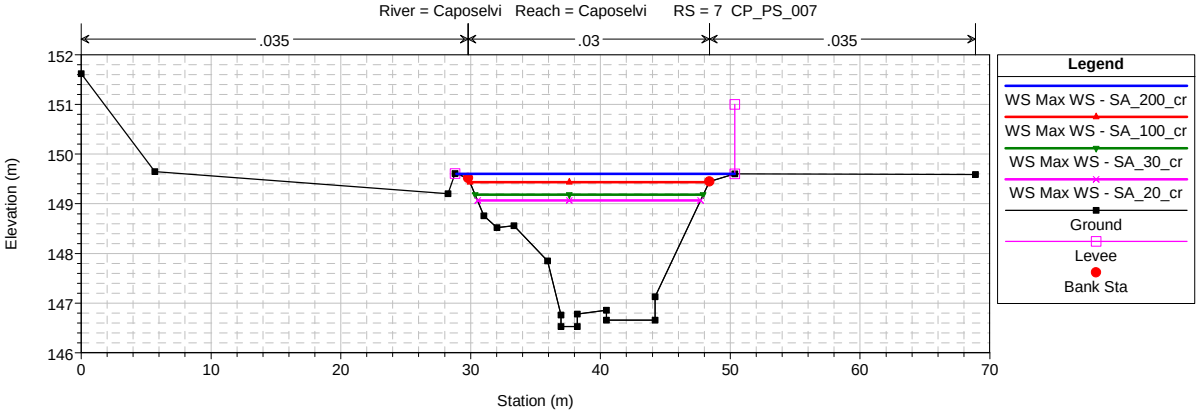
River = Caposelvi Reach = Caposelvi RS = 8 CP_PS_008



Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

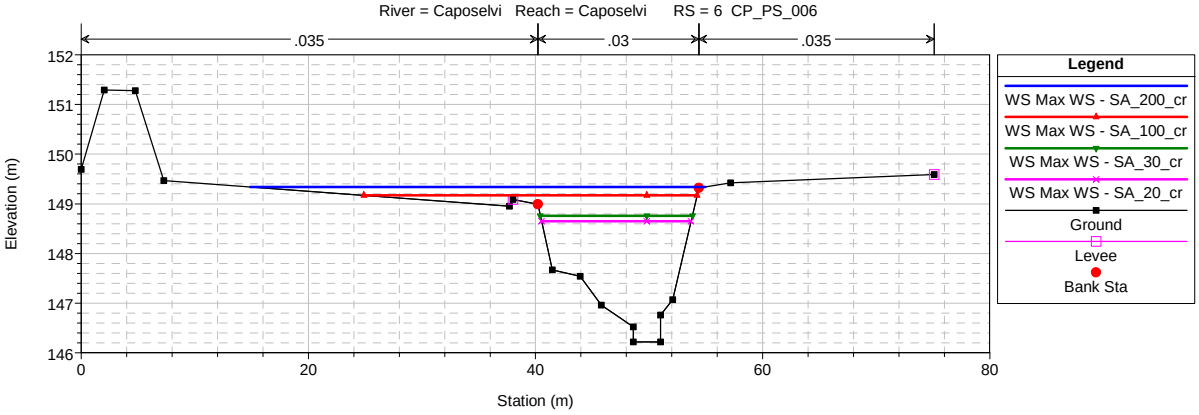
River = Caposelvi Reach = Caposelvi RS = 7 CP_PS_007



Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

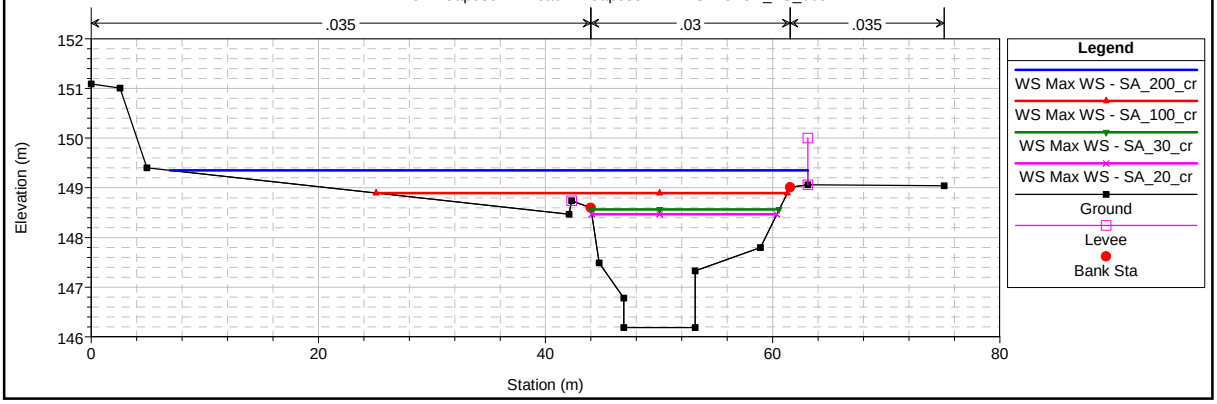
River = Caposelvi Reach = Caposelvi RS = 6 CP_PS_006



Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

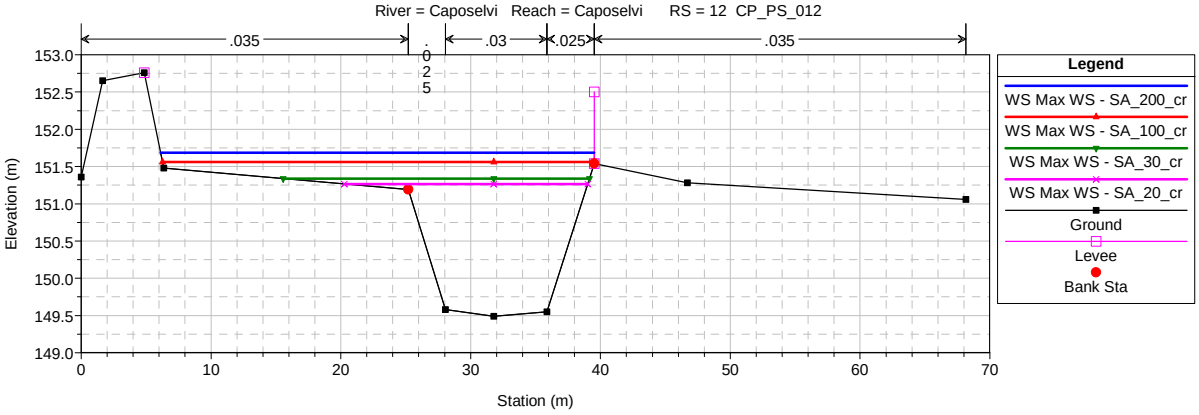
River = Caposelvi Reach = Caposelvi RS = 5 CP_PS_005



Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

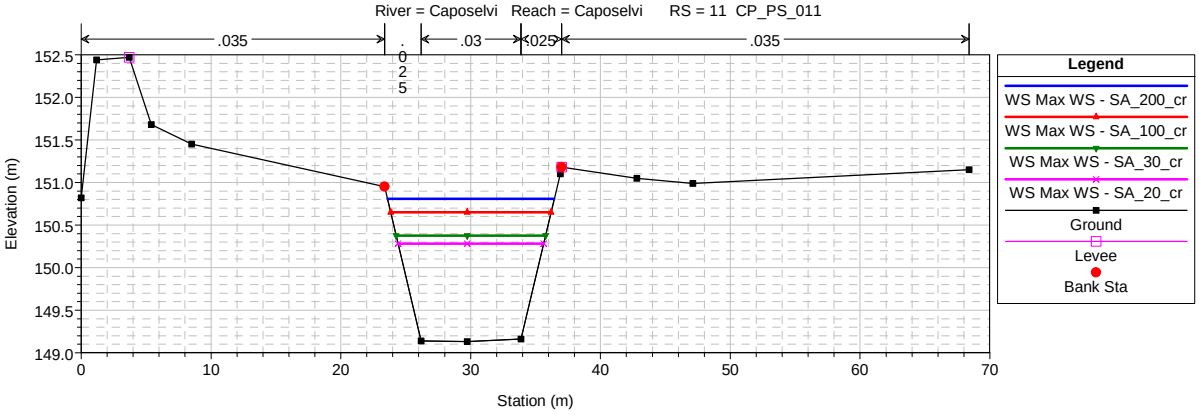
River = Caposelvi Reach = Caposelvi RS = 12 CP_PS_012



Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

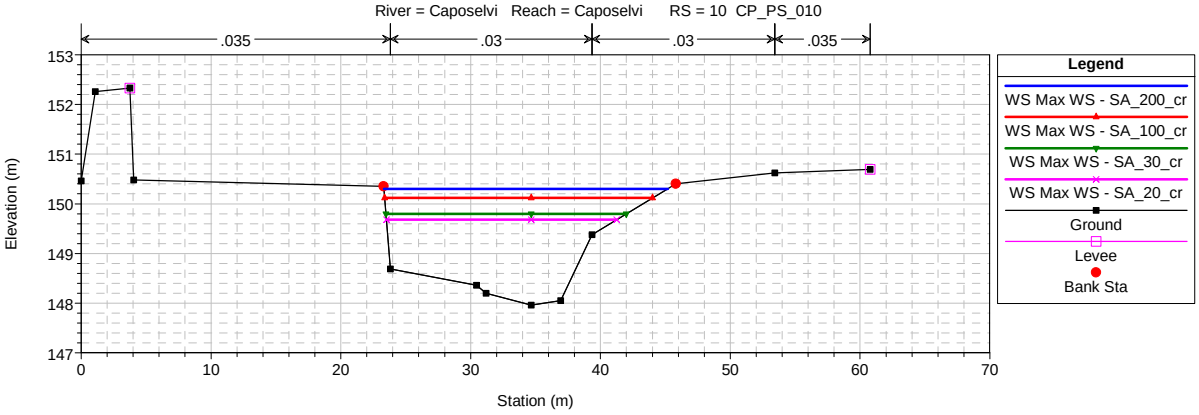
River = Caposelvi Reach = Caposelvi RS = 11 CP_PS_011



Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

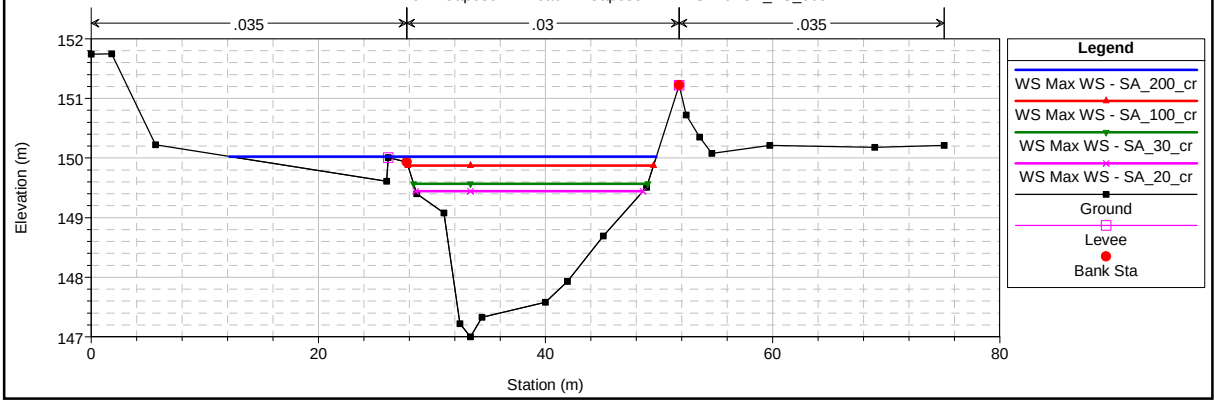
River = Caposelvi Reach = Caposelvi RS = 10 CP_PS_010

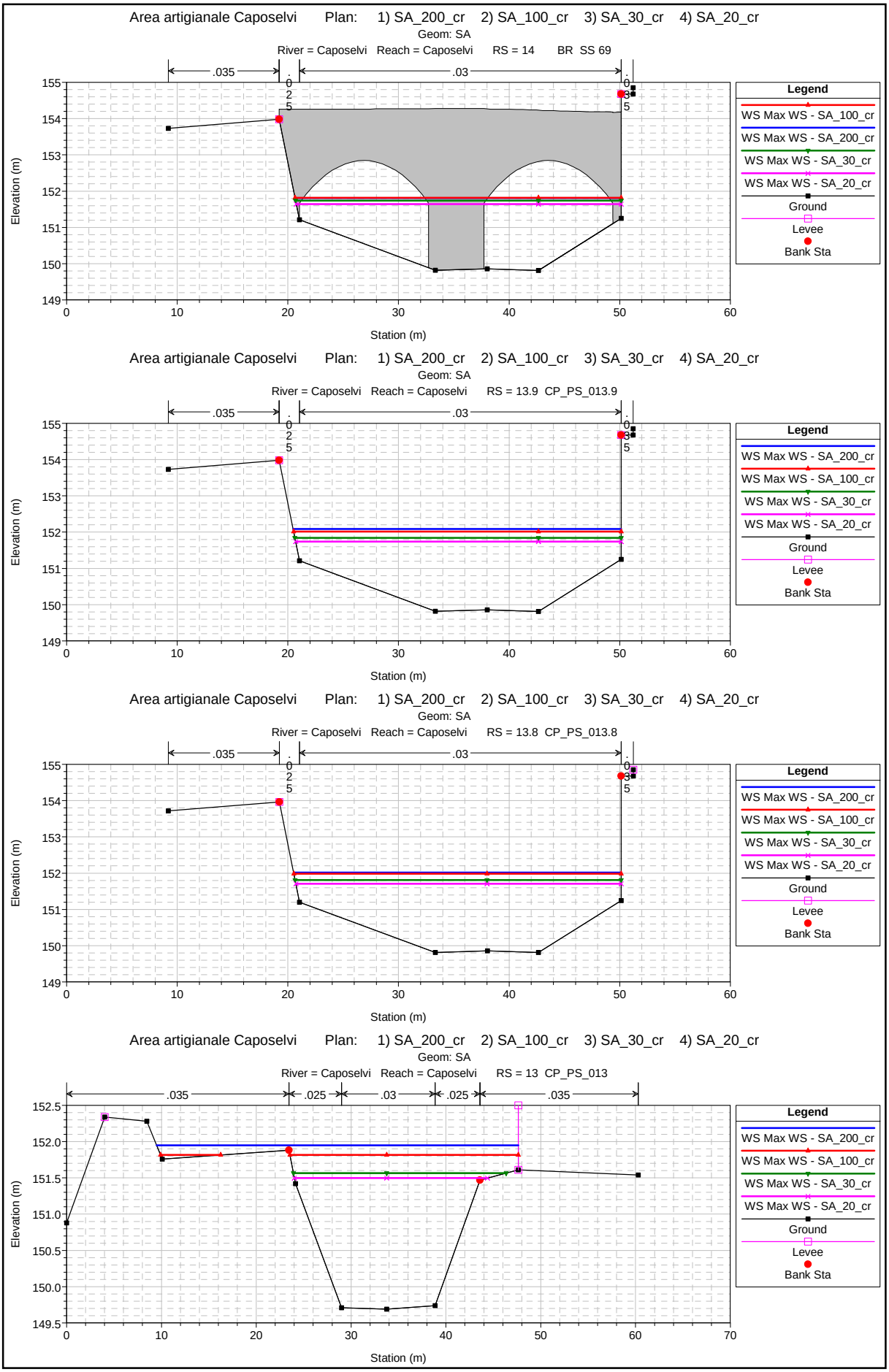


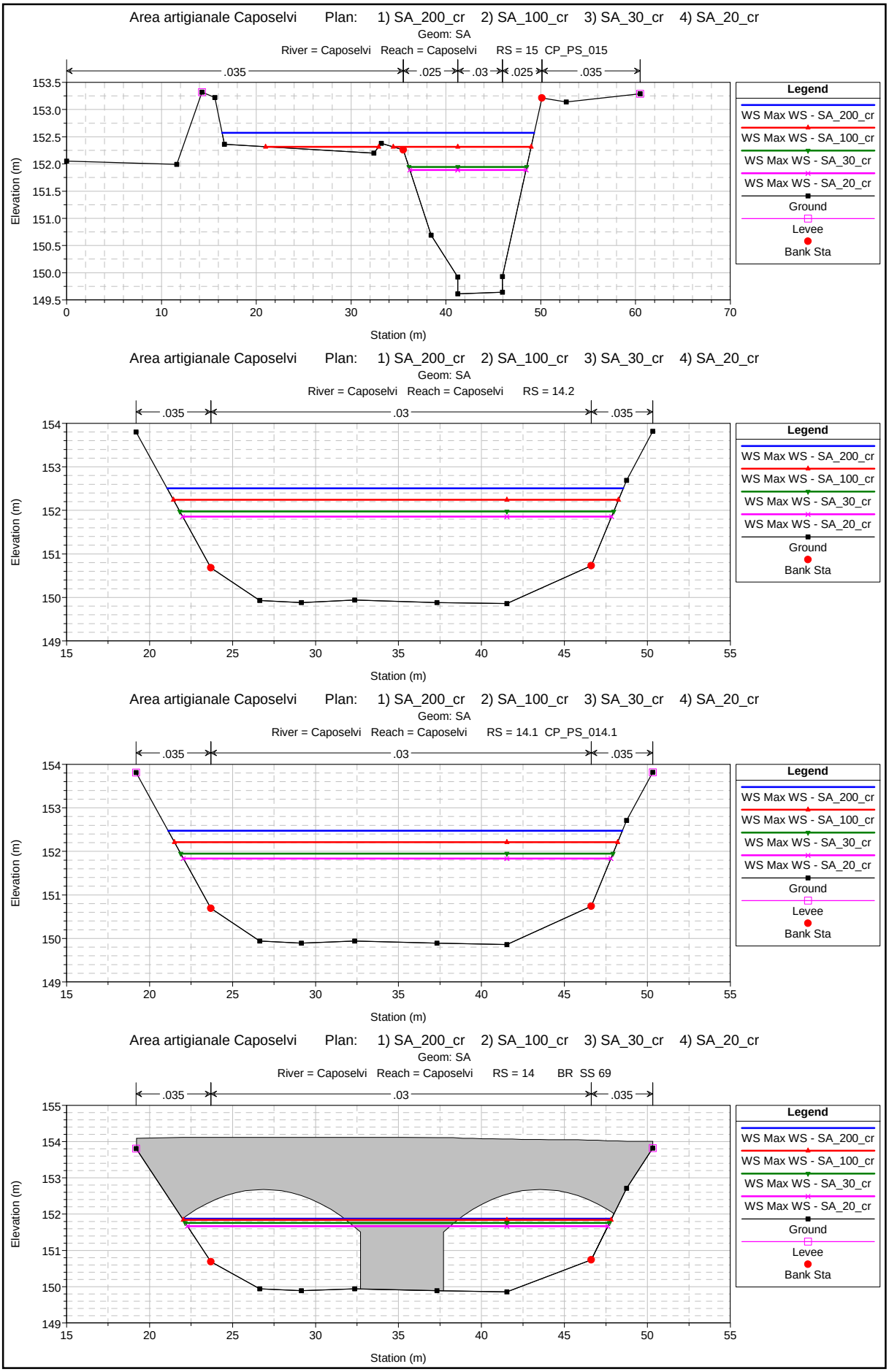
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

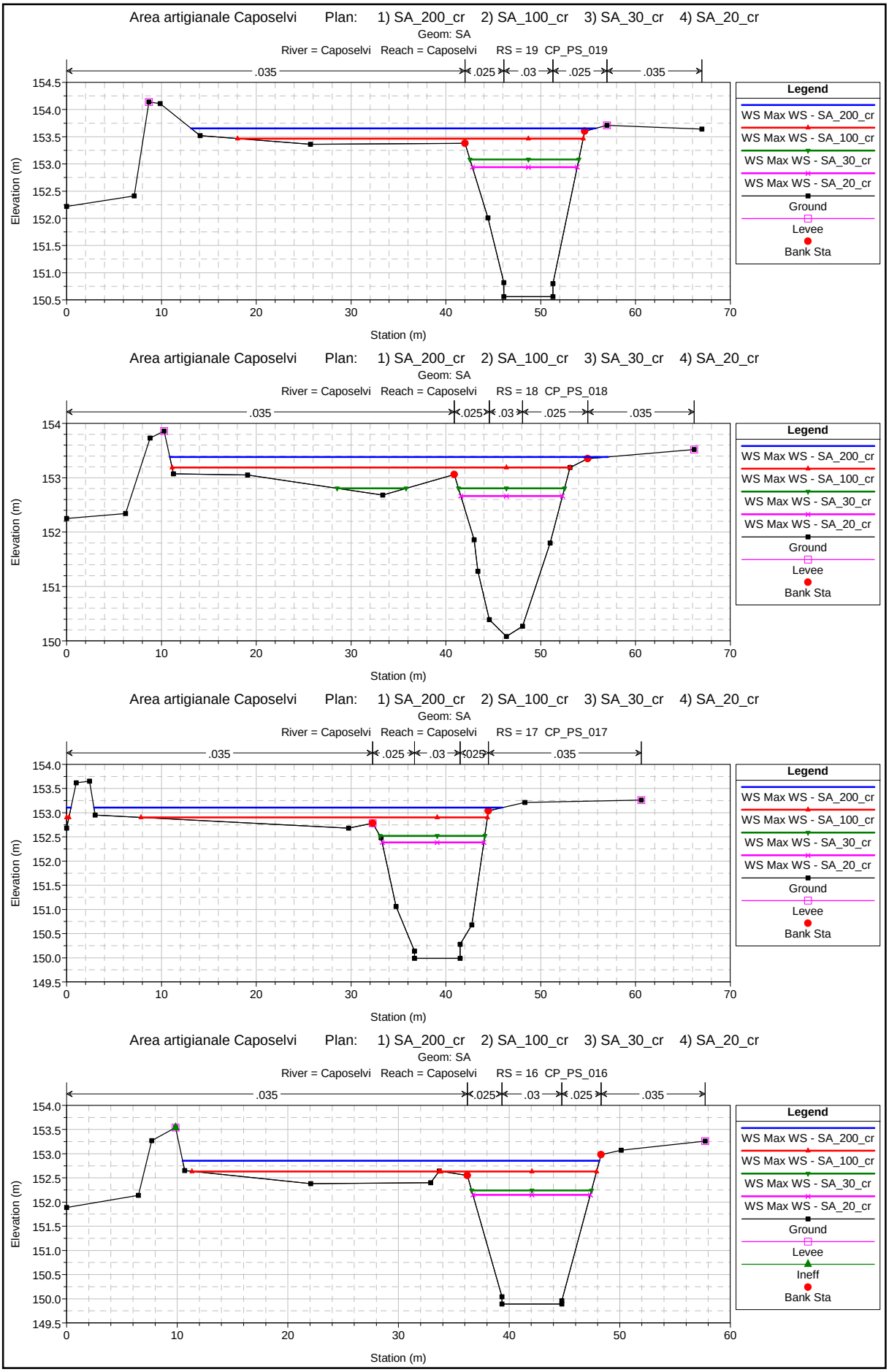
Geom: SA

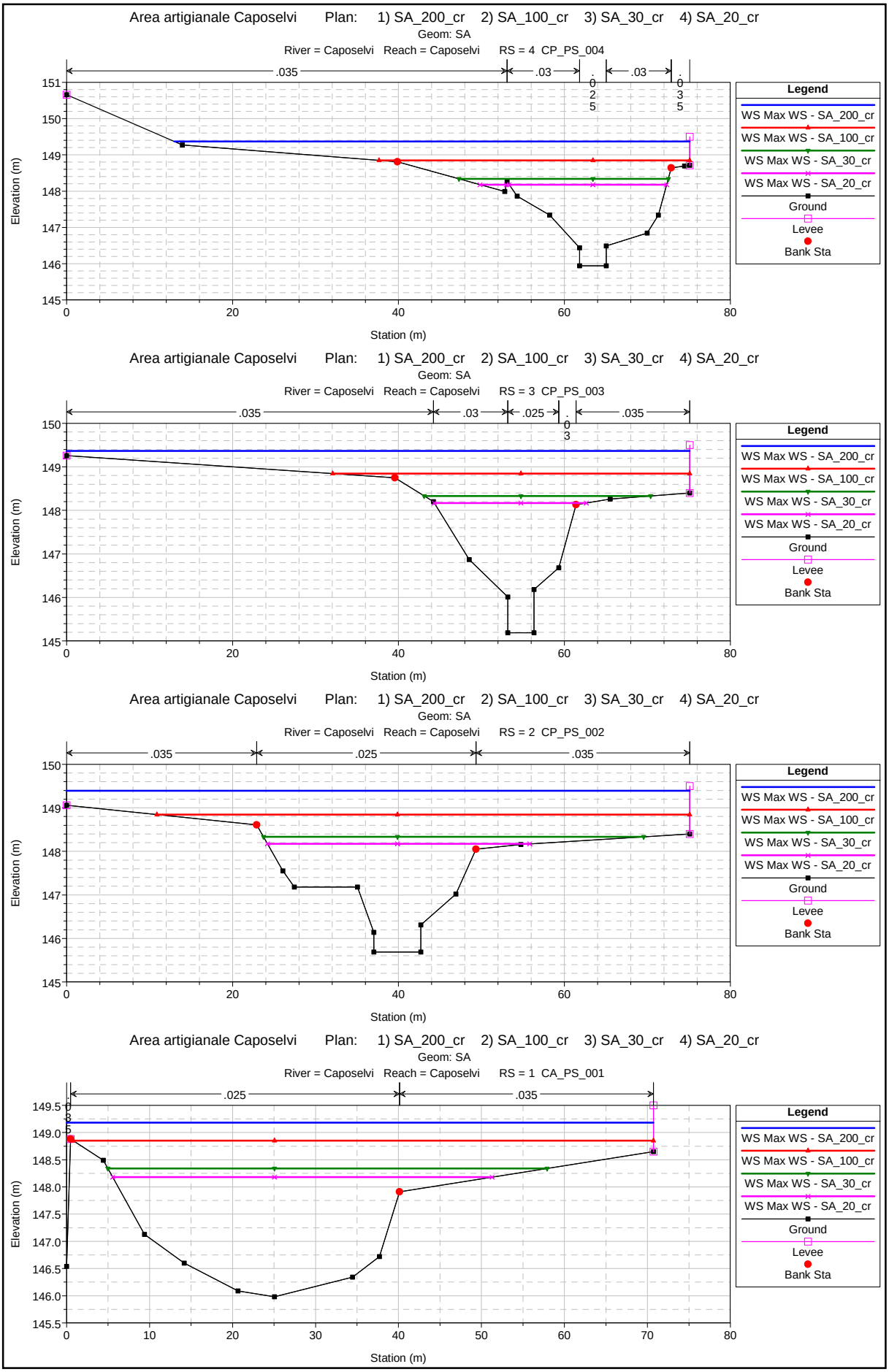
River = Caposelvi Reach = Caposelvi RS = 9 CP_PS_009




Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 14 BR SS 69
.035
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_100_cr
WS Max WS - SA_200_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 13.9 CP_PS_013.9
.035
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 13.8 CP_PS_013.8
.035
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 13 CP_PS_013
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 15 CP_PS_015
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 14.2
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 14.1 CP_PS_014.1
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 14 BR SS 69
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 19 CP_PS_019
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 18 CP_PS_018
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 17 CP_PS_017
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 16 CP_PS_016
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta


Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 4 CP_PS_004
.035
.03
.025
.03
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 3 CP_PS_003
.035
.03
.025
.035
.03
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 2 CP_PS_002
.035
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 1 CA_PS_001
.025
.035
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

HEC-RAS River: Caposelvi Reach: Caposelvi Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caposelvi	19	Max WS	SA_200_cr	130.29	150.56	153.65	154.01	154.67	0.006916	4.58	34.16	42.67	1.00
Caposelvi	19	Max WS	SA_100_cr	108.62	150.56	153.47	153.85	154.44	0.007025	4.38	26.54	36.44	1.00
Caposelvi	19	Max WS	SA_30_cr	77.73	150.56	153.08	153.00	153.85	0.006583	3.89	20.00	11.48	0.94
Caposelvi	19	Max WS	SA_20_cr	68.99	150.56	152.94	152.85	153.66	0.006549	3.75	18.39	11.06	0.93
Caposelvi	18	Max WS	SA_200_cr	130.28	150.08	153.38	153.52	154.20	0.006638	4.31	39.63	46.22	1.02
Caposelvi	18	Max WS	SA_100_cr	108.60	150.08	153.19	153.47	154.09	0.006649	4.35	31.20	41.96	1.01
Caposelvi	18	Max WS	SA_30_cr	77.72	150.08	152.80	153.05	153.68	0.007246	4.15	19.13	18.47	1.03
Caposelvi	18	Max WS	SA_20_cr	68.99	150.08	152.66	152.69	153.49	0.007265	4.03	17.12	10.73	1.02
Caposelvi	17	Max WS	SA_200_cr	130.27	149.99	153.10	153.26	154.02	0.005900	4.38	36.66	43.53	0.93
Caposelvi	17	Max WS	SA_100_cr	108.59	149.99	152.90	153.19	153.80	0.006141	4.23	28.21	36.78	0.93
Caposelvi	17	Max WS	SA_30_cr	77.71	149.99	152.52	152.32	153.23	0.005531	3.73	20.86	11.05	0.87
Caposelvi	17	Max WS	SA_20_cr	67.09	149.99	152.38	152.14	152.99	0.005057	3.46	19.39	10.73	0.82
Caposelvi	16	Max WS	SA_200_cr	130.26	149.89	152.86	153.14	153.82	0.006789	4.56	35.76	37.68	0.99
Caposelvi	16	Max WS	SA_100_cr	108.59	149.89	152.63	152.97	153.65	0.007497	4.53	27.45	36.41	1.03
Caposelvi	16	Max WS	SA_30_cr	77.71	149.89	152.24	152.24	153.11	0.007493	4.13	18.82	10.84	1.00
Caposelvi	16	Max WS	SA_20_cr	66.97	149.89	152.15	152.05	152.87	0.006511	3.76	17.80	10.61	0.93
Caposelvi	15	Max WS	SA_200_cr	130.25	149.61	152.57	152.83	153.55	0.006730	4.48	33.29	32.92	1.01
Caposelvi	15	Max WS	SA_100_cr	108.59	149.61	152.32	152.63	153.32	0.007674	4.44	25.10	26.48	1.05
Caposelvi	15	Max WS	SA_30_cr	77.70	149.61	151.94	151.96	152.75	0.007443	3.98	19.54	12.41	1.01
Caposelvi	15	Max WS	SA_20_cr	66.72	149.61	151.89	151.78	152.53	0.006062	3.54	18.87	12.24	0.91
Caposelvi	14.2	Max WS	SA_200_cr	130.24	149.86	152.51	151.53	152.76	0.001367	2.24	60.72	27.49	0.46
Caposelvi	14.2	Max WS	SA_100_cr	108.59	149.86	152.24	151.36	152.46	0.001398	2.10	53.58	26.82	0.45
Caposelvi	14.2	Max WS	SA_30_cr	77.70	149.86	151.97	151.09	152.12	0.001120	1.72	46.41	26.14	0.40
Caposelvi	14.2	Max WS	SA_20_cr	68.98	149.86	151.86	151.02	151.99	0.001086	1.63	43.43	25.85	0.39
Caposelvi	14.1	Max WS	SA_200_cr	130.24	149.86	152.48	151.54	152.73	0.001439	2.28	59.69	27.38	0.47
Caposelvi	14.1	Max WS	SA_100_cr	108.59	149.86	152.21	151.37	152.44	0.001483	2.14	52.56	26.71	0.46
Caposelvi	14.1	Max WS	SA_30_cr	77.69	149.86	151.95	151.10	152.10	0.001181	1.75	45.62	26.05	0.41
Caposelvi	14.1	Max WS	SA_20_cr	68.97	149.86	151.84	151.02	151.97	0.001147	1.66	42.68	25.76	0.40
Caposelvi	14			Bridge									
Caposelvi	13.9	Max WS	SA_200_cr	130.24	149.81	152.09	151.57	152.41	0.002787	2.49	52.21	29.65	0.60

HEC-RAS River: Caposelvi Reach: Caposelvi Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caposelvi	13.9	Max WS	SA_100_cr	94.24	149.81	152.02	151.32	152.20	0.001665	1.88	50.09	29.60	0.46
Caposelvi	13.9	Max WS	SA_30_cr	77.69	149.81	151.84	151.20	152.00	0.001597	1.73	44.98	29.49	0.45
Caposelvi	13.9	Max WS	SA_20_cr	68.97	149.81	151.74	151.11	151.88	0.001587	1.65	41.85	29.42	0.44
Caposelvi	13.8	Max WS	SA_200_cr	130.24	149.81	152.01	151.57	152.36	0.003160	2.59	50.19	29.61	0.64
Caposelvi	13.8	Max WS	SA_100_cr	94.19	149.81	151.98	151.32	152.17	0.001754	1.91	49.27	29.59	0.47
Caposelvi	13.8	Max WS	SA_30_cr	77.69	149.81	151.81	151.19	151.97	0.001688	1.76	44.21	29.47	0.46
Caposelvi	13.8	Max WS	SA_20_cr	68.97	149.81	151.71	151.11	151.85	0.001683	1.68	41.09	29.40	0.45
Caposelvi	13.7			Lat Struct									
Caposelvi	13	Max WS	SA_200_cr	130.08	149.69	151.95	151.92	152.60	0.004832	3.60	38.81	38.15	0.87
Caposelvi	13	Max WS	SA_100_cr	108.54	149.69	151.82	151.65	152.36	0.004454	3.29	33.98	30.44	0.82
Caposelvi	13	Max WS	SA_30_cr	77.69	149.69	151.57	151.29	151.97	0.003909	2.80	27.87	22.44	0.75
Caposelvi	13	Max WS	SA_20_cr	59.04	149.69	151.50	151.06	151.75	0.002646	2.24	26.41	20.36	0.61
Caposelvi	12	Max WS	SA_200_cr	124.93	149.49	151.68	151.99	152.73	0.008912	4.69	31.37	33.41	1.14
Caposelvi	12	Max WS	SA_100_cr	106.78	149.49	151.56	151.85	152.54	0.008806	4.46	27.26	33.27	1.12
Caposelvi	12	Max WS	SA_30_cr	77.68	149.49	151.34	151.57	152.11	0.007940	3.90	20.54	23.60	1.05
Caposelvi	12	Max WS	SA_20_cr	68.97	149.49	151.27	151.33	151.95	0.007410	3.66	19.00	18.75	1.00
Caposelvi	11	Max WS	SA_200_cr	124.63	149.13	150.81	151.69	153.51	0.030908	7.28	17.12	12.84	2.01
Caposelvi	11	Max WS	SA_100_cr	106.78	149.13	150.65	151.58	153.19	0.032695	7.06	15.11	12.35	2.04
Caposelvi	11	Max WS	SA_30_cr	77.69	149.13	150.37	151.07	152.57	0.035829	6.57	11.83	11.50	2.07
Caposelvi	11	Max WS	SA_20_cr	68.96	149.13	150.28	150.92	152.37	0.037493	6.41	10.76	11.21	2.09
Caposelvi	10	Max WS	SA_200_cr	124.63	147.96	150.30	150.27	151.02	0.008250	3.76	33.14	21.86	0.97
Caposelvi	10	Max WS	SA_100_cr	106.78	147.96	150.12	150.10	150.80	0.008512	3.66	29.19	20.63	0.98
Caposelvi	10	Max WS	SA_30_cr	77.69	147.96	149.80	149.77	150.38	0.008605	3.38	22.96	18.51	0.97
Caposelvi	10	Max WS	SA_20_cr	68.96	147.96	149.68	149.66	150.24	0.008770	3.30	20.87	17.75	0.97
Caposelvi	9	Max WS	SA_200_cr	124.62	147.00	150.02	149.74	150.54	0.004781	3.20	41.38	37.59	0.77
Caposelvi	9	Max WS	SA_100_cr	103.41	147.00	149.87	149.55	150.32	0.004477	2.95	35.09	21.64	0.74
Caposelvi	9	Max WS	SA_30_cr	77.69	147.00	149.57	149.24	149.94	0.004641	2.71	28.63	20.62	0.74
Caposelvi	9	Max WS	SA_20_cr	68.96	147.00	149.44	149.10	149.80	0.004775	2.64	26.11	20.02	0.74
Caposelvi	8	Max WS	SA_200_cr	124.62	146.60	149.83	149.53	150.37	0.005166	3.27	38.11	21.60	0.79
Caposelvi	8	Max WS	SA_100_cr	103.32	146.60	149.71	149.32	150.14	0.004359	2.90	35.58	21.30	0.72

HEC-RAS River: Caposelvi Reach: Caposelvi Profile: Max WS (Continued)

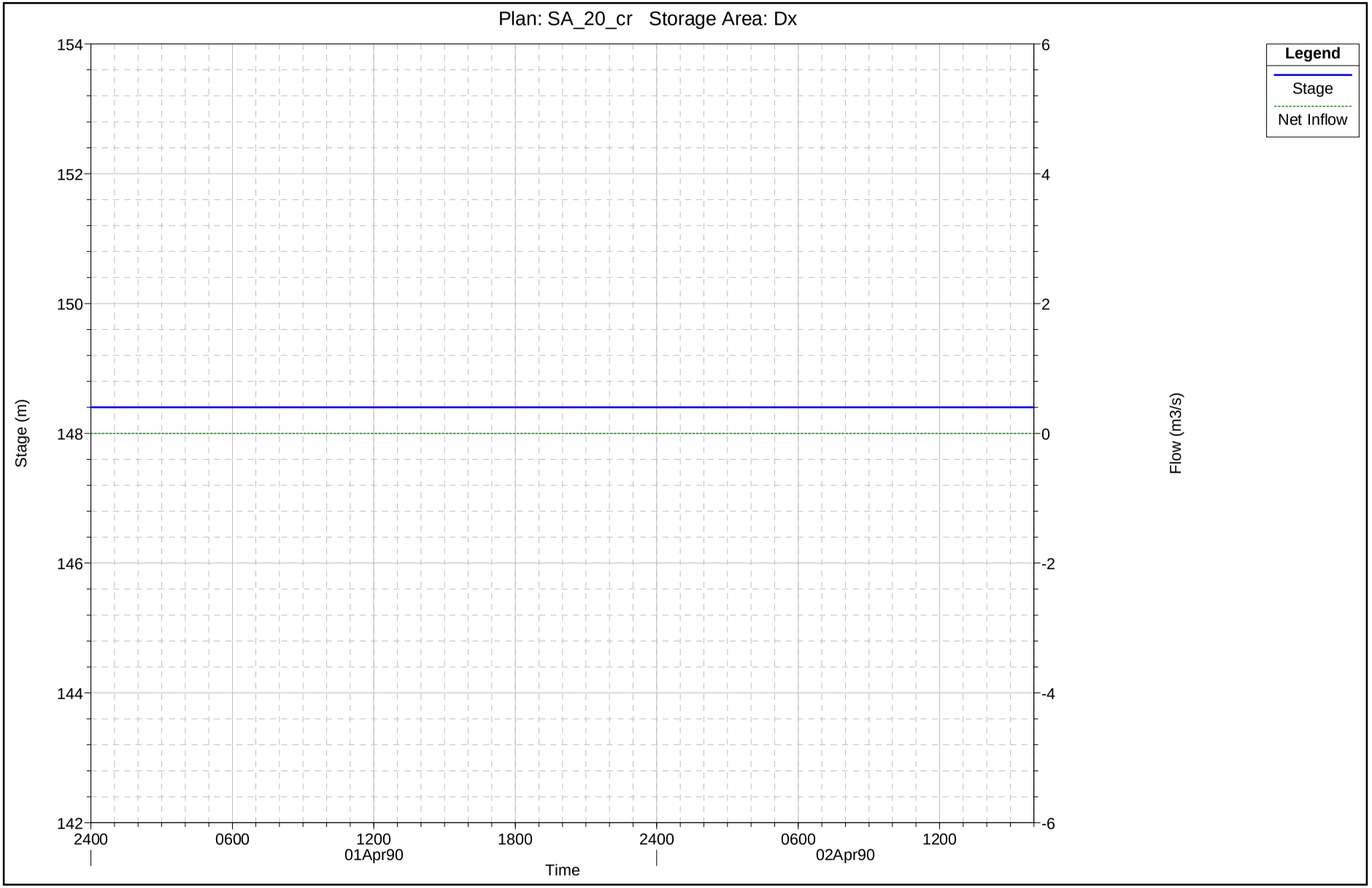
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caposelvi	8	Max WS	SA_30_cr	77.69	146.60	149.41	149.04	149.77	0.004226	2.64	29.44	19.87	0.69
Caposelvi	8	Max WS	SA_20_cr	68.95	146.60	149.28	148.94	149.62	0.004307	2.56	26.90	19.23	0.69
Caposelvi	7.8			Lat Struct									
Caposelvi	7	Max WS	SA_200_cr	124.52	146.53	149.60	149.33	150.23	0.005515	3.50	35.74	21.44	0.81
Caposelvi	7	Max WS	SA_100_cr	106.61	146.53	149.43	149.14	149.98	0.005422	3.29	32.45	18.42	0.79
Caposelvi	7	Max WS	SA_30_cr	77.68	146.53	149.18	148.81	149.58	0.004447	2.78	27.93	17.56	0.70
Caposelvi	7	Max WS	SA_20_cr	68.94	146.53	149.07	148.69	149.43	0.004357	2.66	25.92	17.17	0.69
Caposelvi	6	Max WS	SA_200_cr	122.58	146.22	149.34	149.59	150.13	0.006777	4.01	34.70	40.08	0.89
Caposelvi	6	Max WS	SA_100_cr	106.60	146.22	149.17	149.23	149.94	0.007058	3.90	28.80	29.35	0.90
Caposelvi	6	Max WS	SA_30_cr	77.68	146.22	148.76	148.66	149.43	0.007689	3.62	21.45	13.39	0.91
Caposelvi	6	Max WS	SA_20_cr	68.92	146.22	148.65	148.53	149.26	0.007467	3.45	19.98	13.17	0.89
Caposelvi	5	Max WS	SA_200_cr	64.62	146.19	149.35	148.19	149.45	0.000830	1.47	55.62	56.18	0.32
Caposelvi	5	Max WS	SA_100_cr	106.07	146.19	148.90	148.83	149.46	0.005910	3.39	34.44	36.21	0.82
Caposelvi	5	Max WS	SA_30_cr	77.68	146.19	148.56	148.36	149.07	0.006281	3.13	24.78	16.56	0.82
Caposelvi	5	Max WS	SA_20_cr	68.92	146.19	148.47	148.24	148.92	0.006036	2.97	23.17	16.28	0.80
Caposelvi	4	Max WS	SA_200_cr	61.82	145.94	149.37	147.93	149.41	0.000463	0.98	69.94	62.12	0.23
Caposelvi	4	Max WS	SA_100_cr	24.73	145.94	148.85	147.30	148.87	0.000251	0.58	43.22	37.45	0.16
Caposelvi	4	Max WS	SA_30_cr	20.65	145.94	148.34	147.21	148.37	0.000494	0.74	27.77	25.23	0.23
Caposelvi	4	Max WS	SA_20_cr	20.86	145.94	148.18	147.21	148.22	0.000676	0.87	23.93	22.17	0.27
Caposelvi	3	Max WS	SA_200_cr	58.86	145.19	149.37	147.54	149.41	0.000277	0.93	80.95	75.10	0.19
Caposelvi	3	Max WS	SA_100_cr	23.82	145.19	148.85	146.86	148.86	0.000133	0.55	48.37	43.04	0.13
Caposelvi	3	Max WS	SA_30_cr	20.65	145.19	148.33	146.78	148.36	0.000239	0.69	30.59	27.29	0.17
Caposelvi	3	Max WS	SA_20_cr	20.84	145.19	148.17	146.79	148.20	0.000306	0.77	27.03	18.34	0.20
Caposelvi	2.99			Lat Struct									
Caposelvi	2	Max WS	SA_200_cr	44.38	145.69	149.39	147.40	149.41	0.000058	0.54	108.71	75.10	0.11
Caposelvi	2	Max WS	SA_100_cr	25.75	145.69	148.85	146.96	148.86	0.000057	0.45	68.69	64.22	0.10
Caposelvi	2	Max WS	SA_30_cr	20.63	145.69	148.33	146.81	148.35	0.000114	0.53	40.85	45.82	0.14
Caposelvi	2	Max WS	SA_20_cr	20.83	145.69	148.17	146.82	148.19	0.000168	0.61	34.59	31.63	0.17
Caposelvi	1	Max WS	SA_200_cr	37.62	145.98	149.18	146.89	149.19	0.000027	0.36	121.82	70.72	0.08

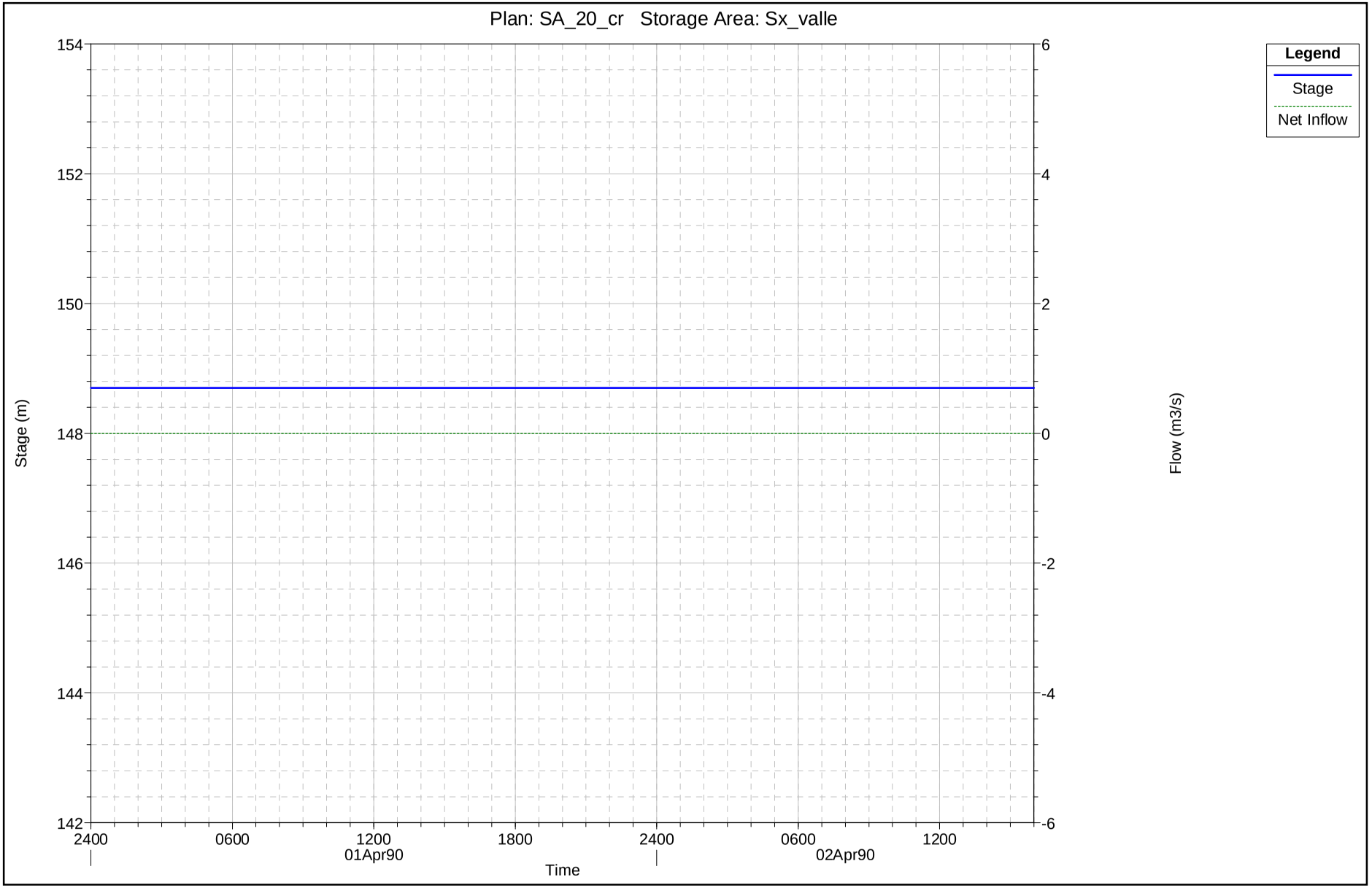
HEC-RAS River: Caposelvi Reach: Caposelvi Profile: Max WS (Continued)

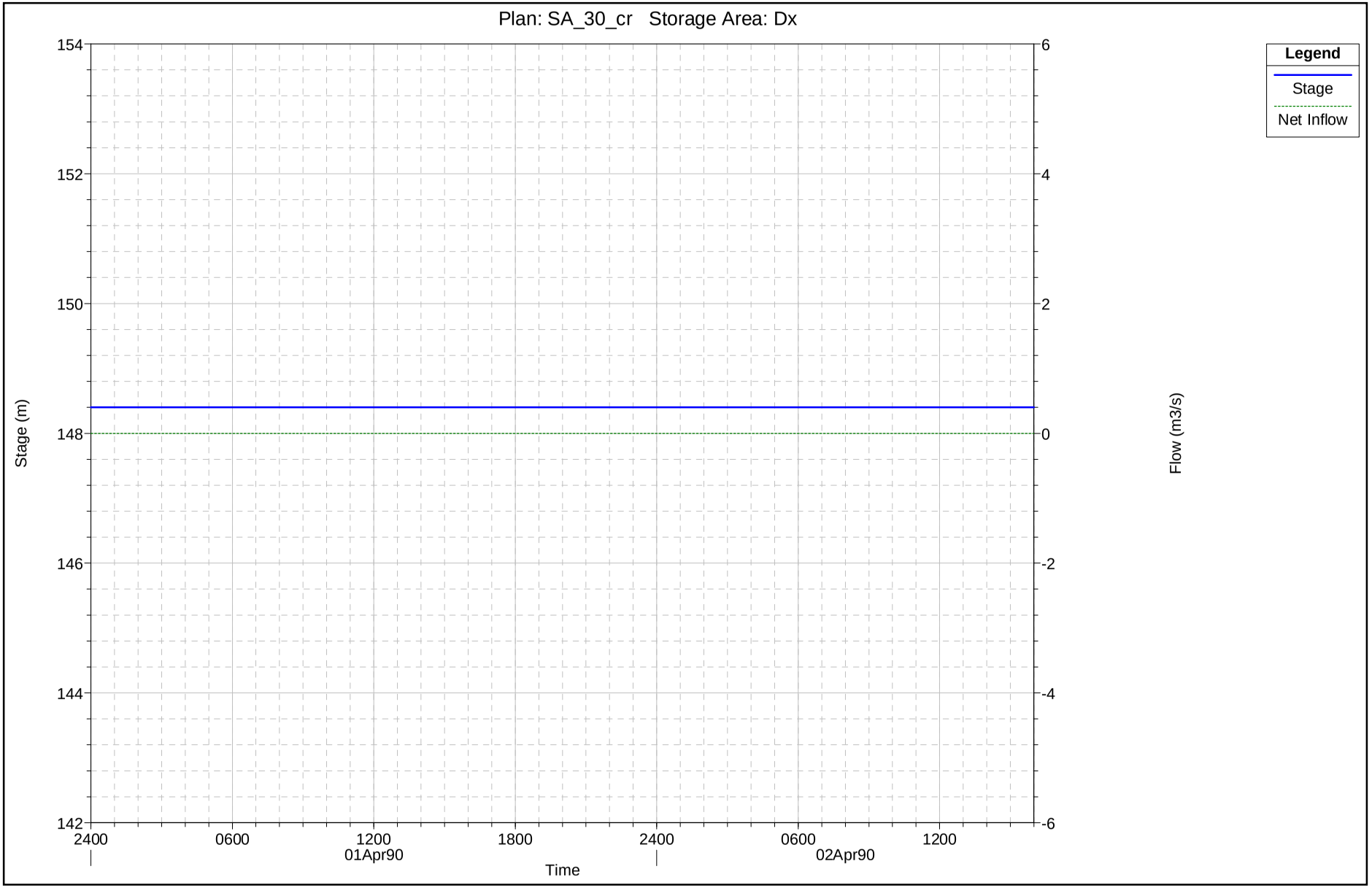
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caposelvi	1	Max WS	SA_100_cr	24.60	145.98	148.85	146.73	148.85	0.000020	0.29	97.94	69.95	0.06
Caposelvi	1	Max WS	SA_30_cr	20.62	145.98	148.34	146.66	148.35	0.000033	0.33	65.50	52.94	0.08
Caposelvi	1	Max WS	SA_20_cr	20.80	145.98	148.18	146.67	148.19	0.000046	0.37	57.61	45.75	0.09

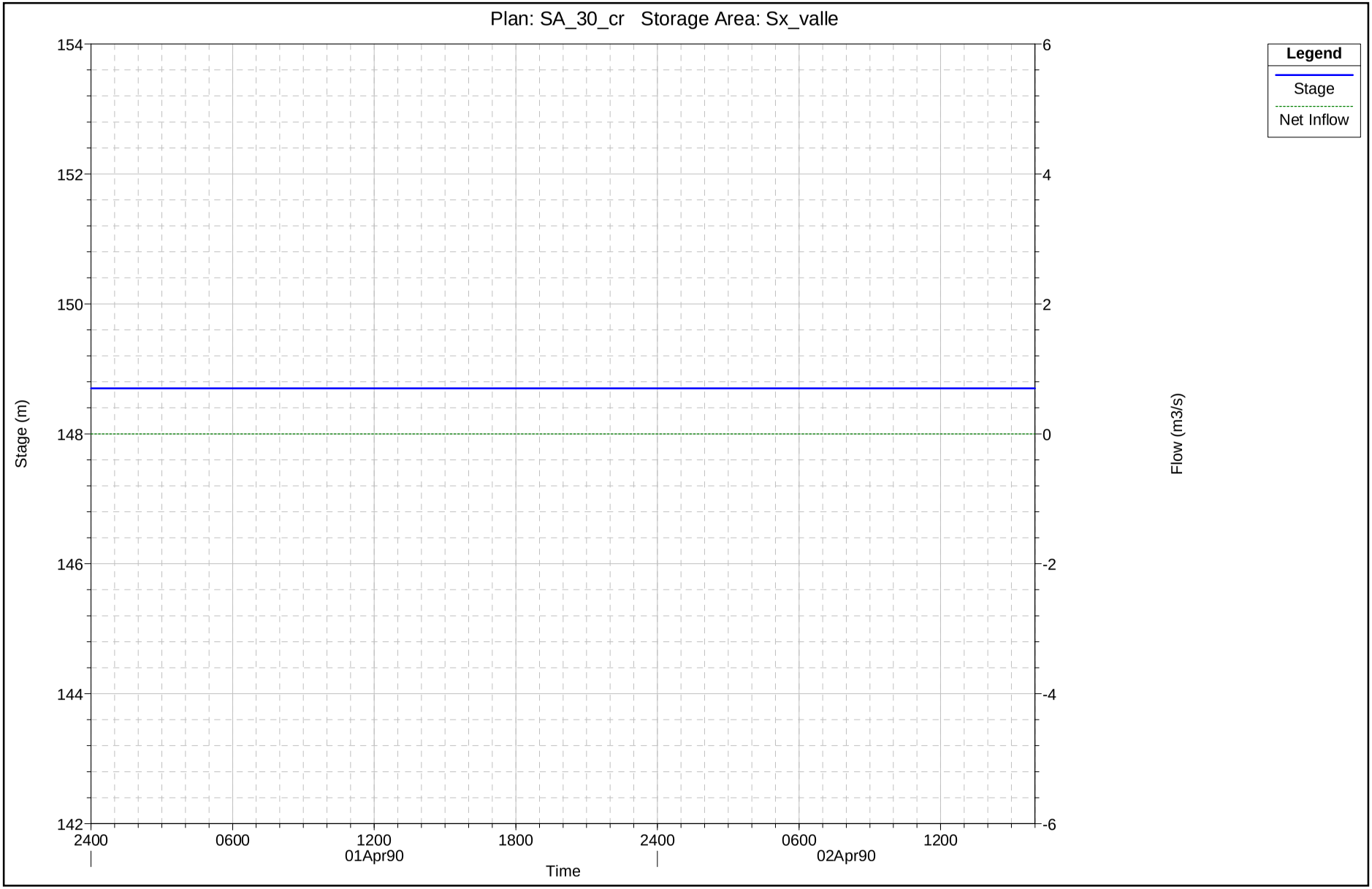
HEC-RAS Profile: Max WS

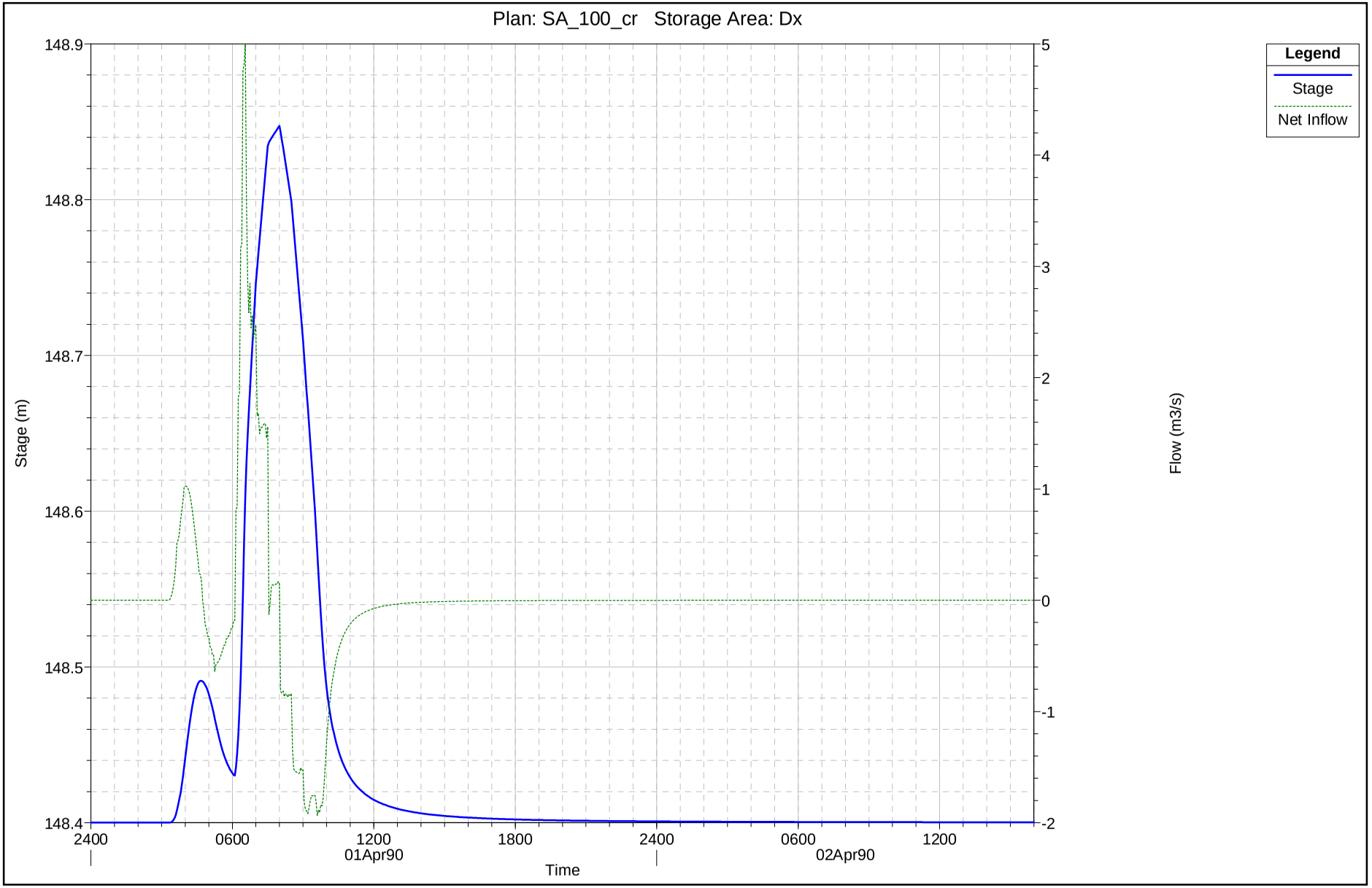
Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
Dx	Max WS	SA_200_cr	149.33	148.40	49.31	30.63	28.46
Dx	Max WS	SA_100_cr	148.85	148.40	1.67	30.63	13.70
Dx	Max WS	SA_30_cr	148.40	148.40	0.00	30.63	0.00
Dx	Max WS	SA_20_cr	148.40	148.40	0.00	30.63	0.00
Sx_valle	Max WS	SA_200_cr	149.18	148.70	11.68	8.00	3.81
Sx_valle	Max WS	SA_100_cr	148.70	148.70	0.00	8.00	0.00
Sx_valle	Max WS	SA_30_cr	148.70	148.70	0.00	8.00	0.00
Sx_valle	Max WS	SA_20_cr	148.70	148.70	0.00	8.00	0.00

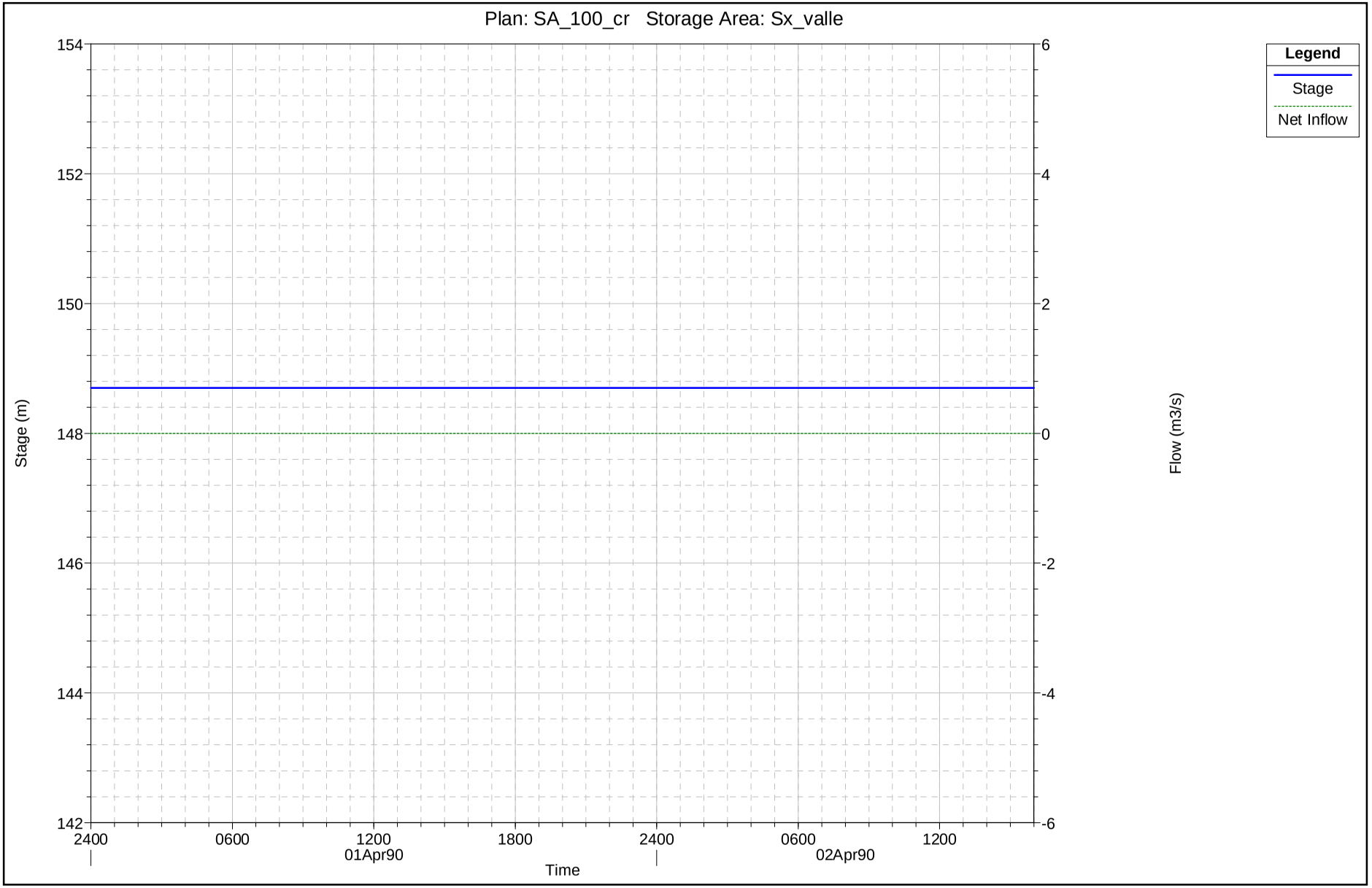

Plan: SA_20_cr Storage Area: Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
01Apr90
02Apr90
Time

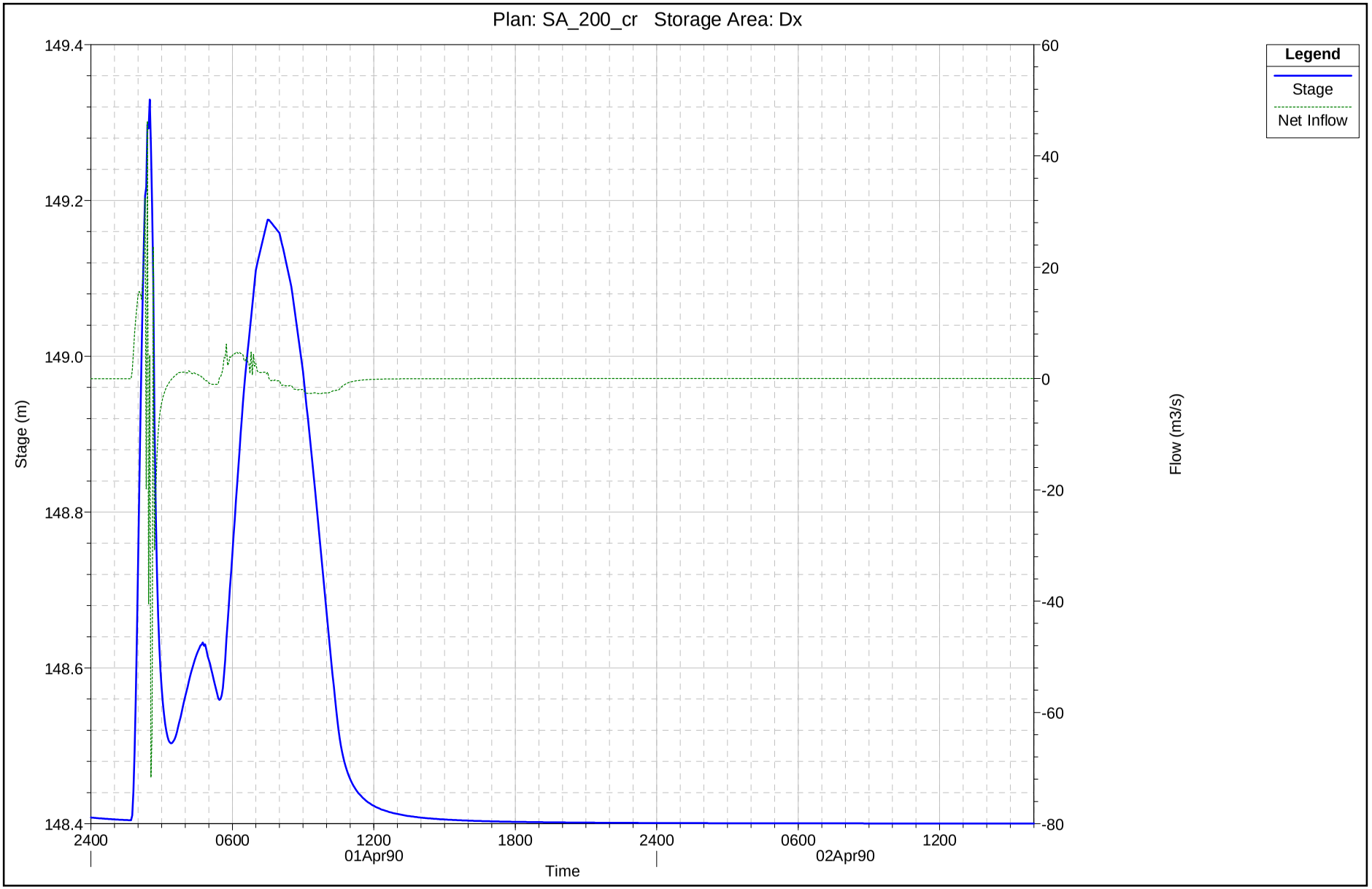

Plan: SA_20_cr Storage Area: Sx_valle
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
01Apr90
02Apr90
Time

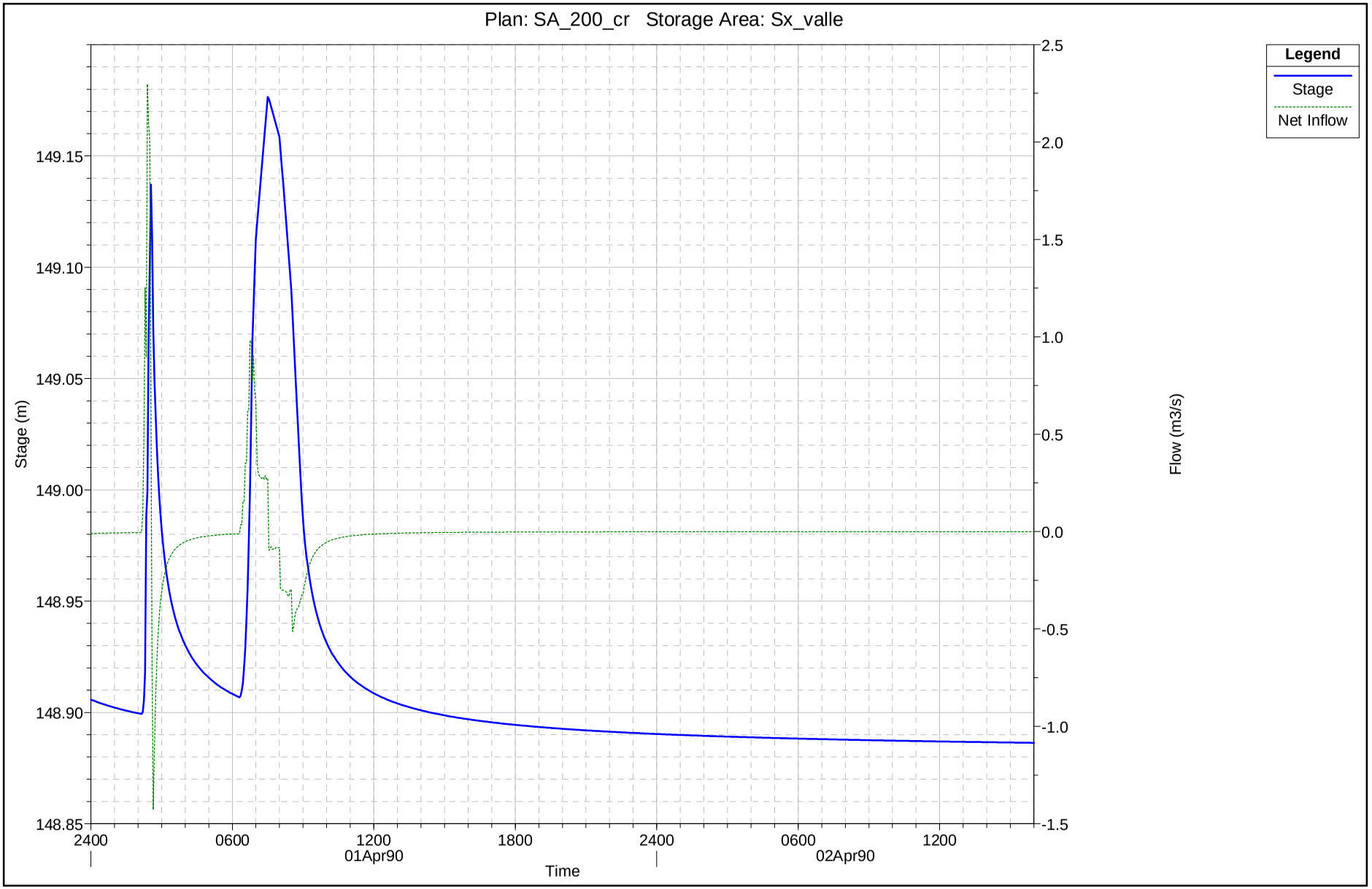

Plan: SA_30_cr Storage Area: Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
01Apr90
02Apr90
Time

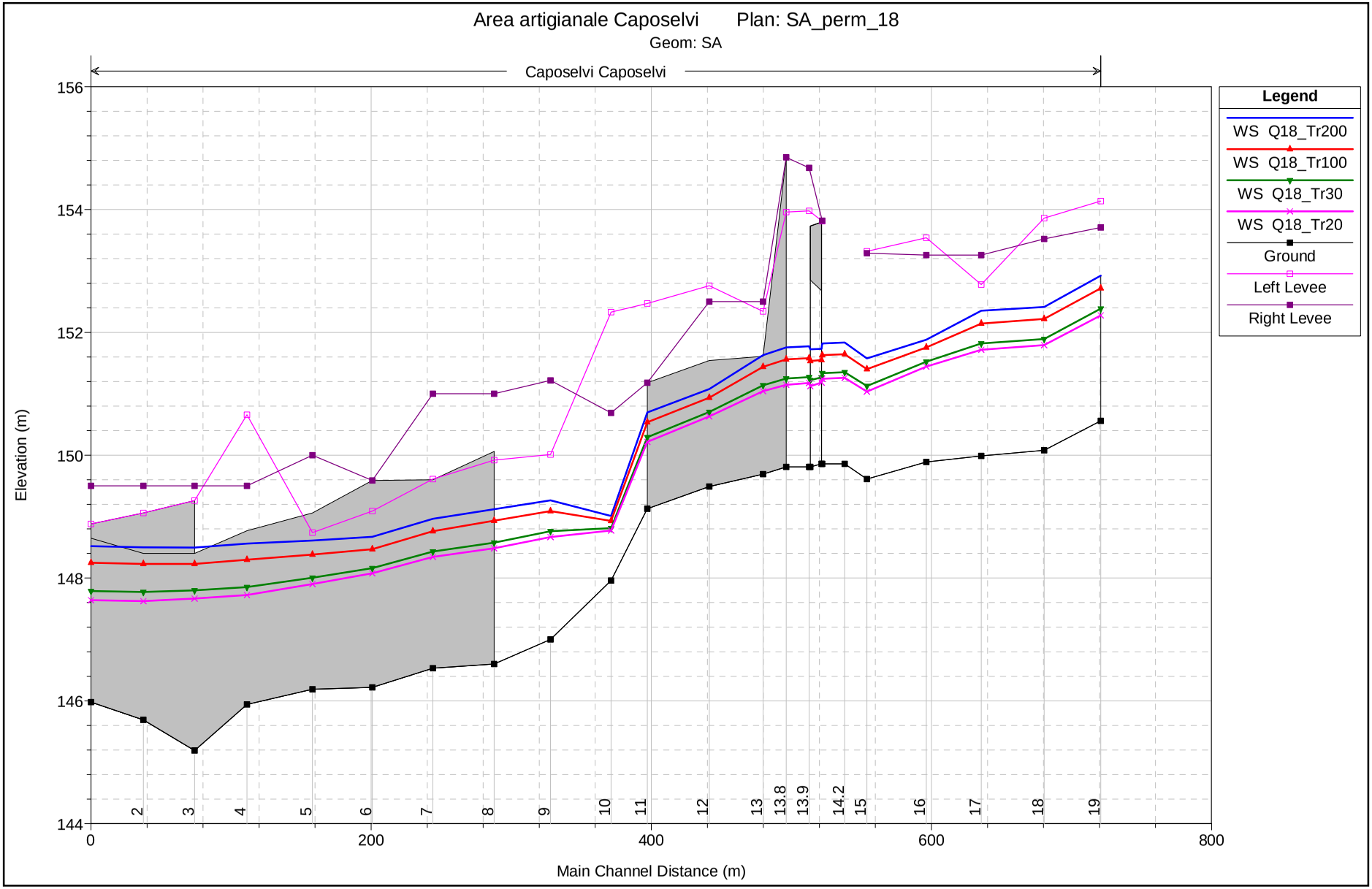

Plan: SA_30_cr Storage Area: Sx_valle
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
01Apr90
02Apr90
Time

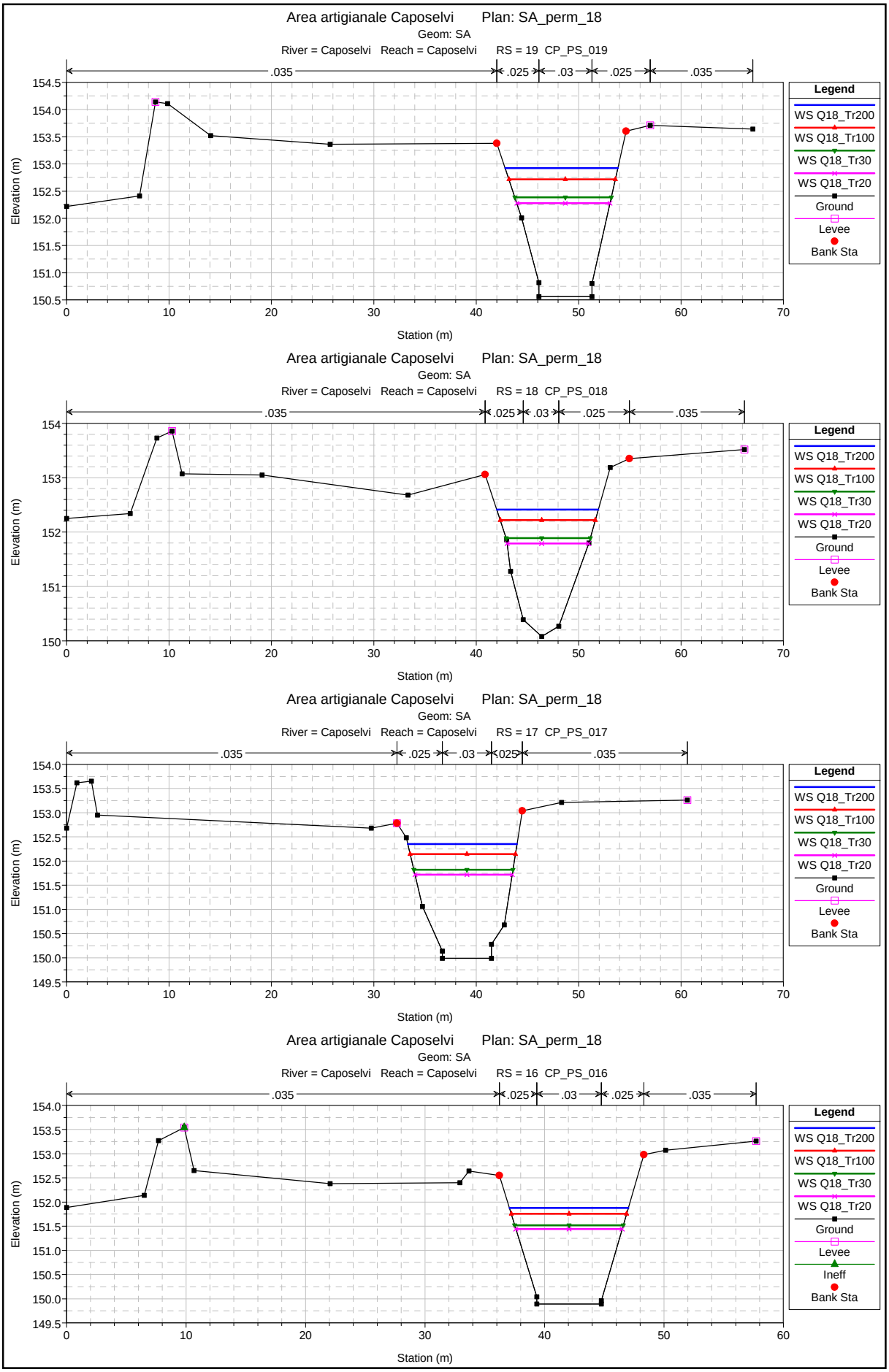

Plan: SA_100_cr Storage Area: Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148.9
148.8
148.7
148.6
148.5
148.4
5
4
3
2
1
0
-1
-2
2400
0600
1200
1800
2400
0600
1200
01Apr90
02Apr90
Time

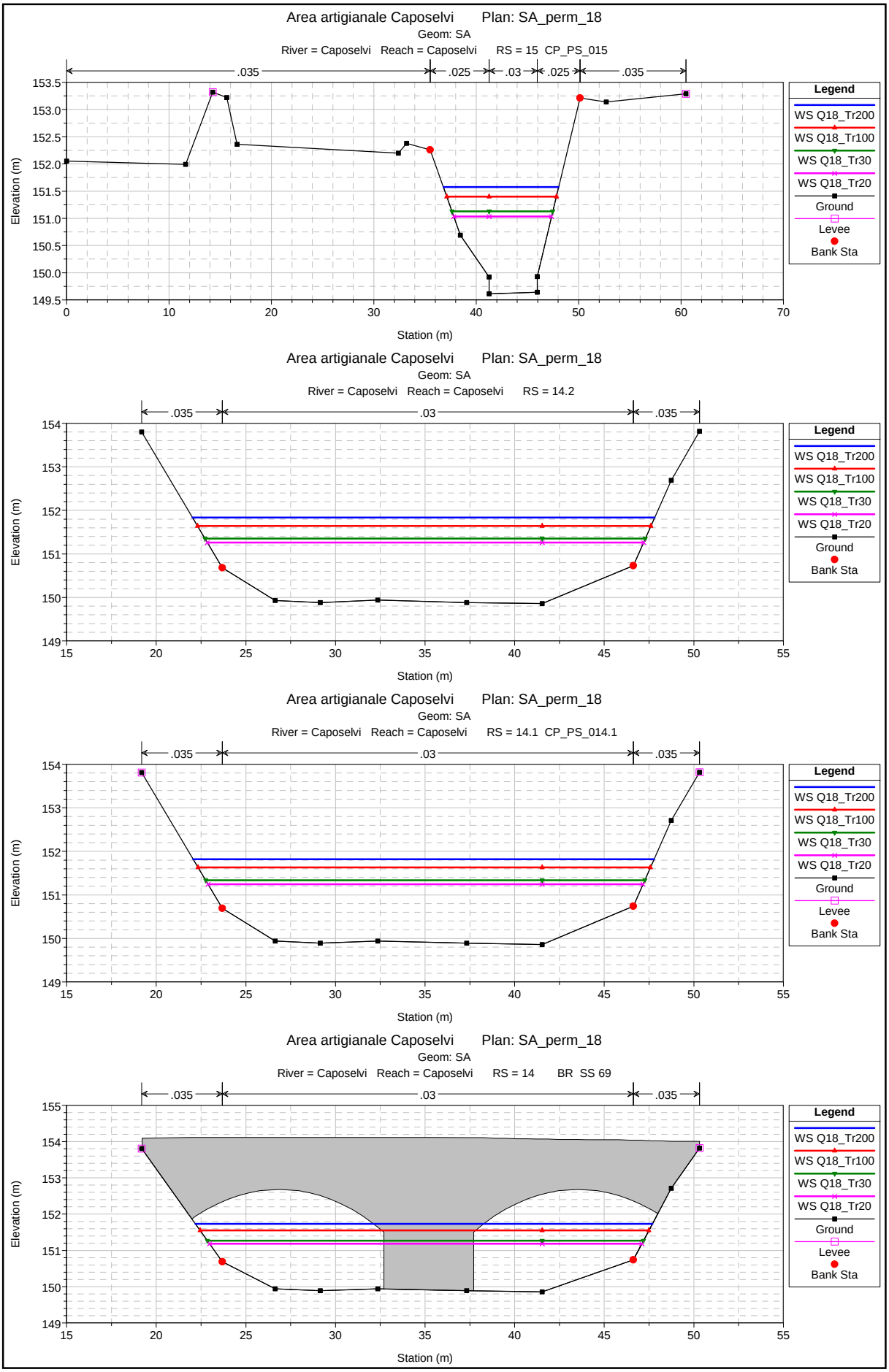

Plan: SA_100_cr Storage Area: Sx_valle
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
01Apr90
02Apr90
Time

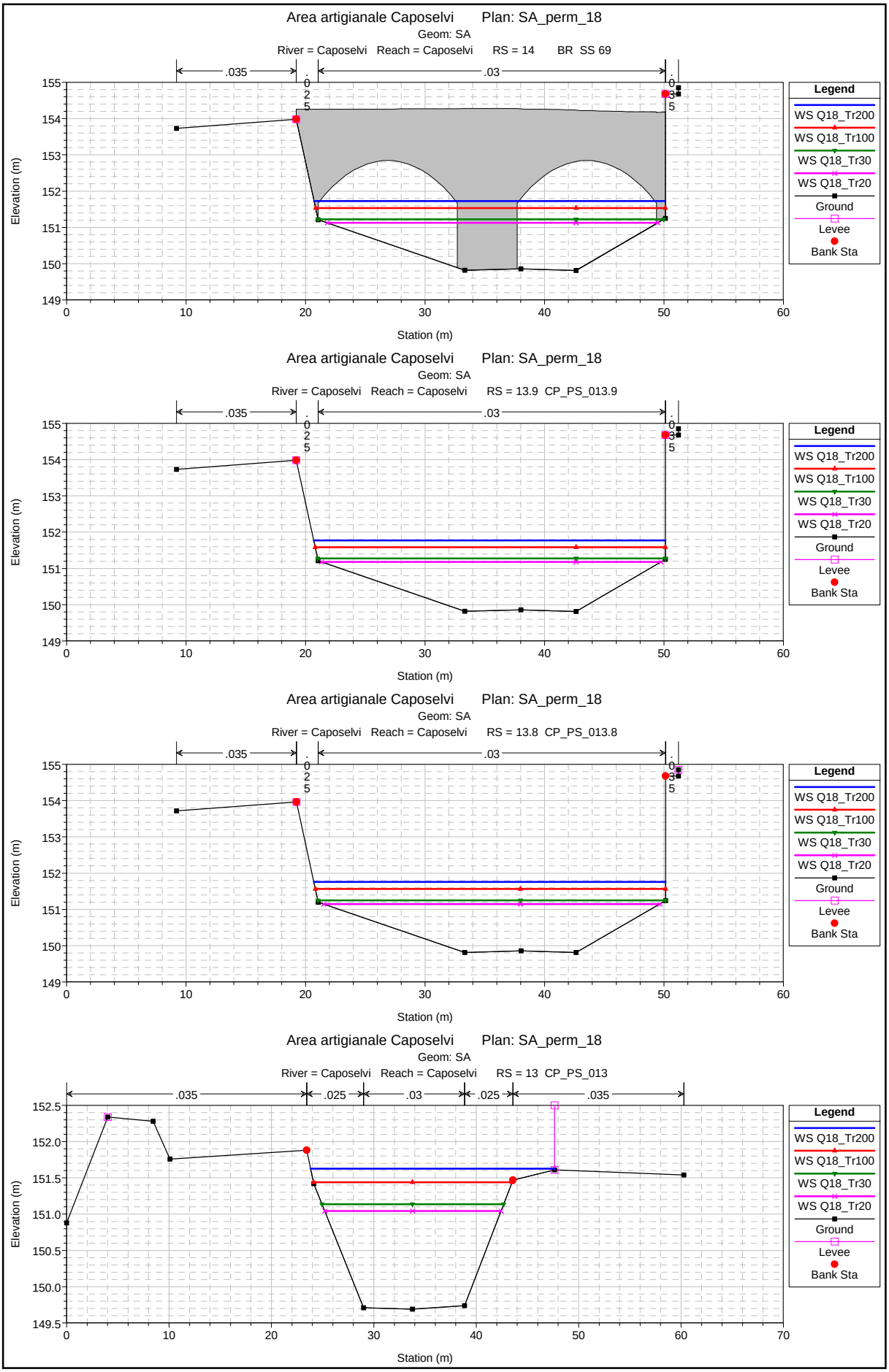

Plan: SA_200_cr Storage Area: Dx
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
149.4
149.2
149.0
148.8
148.6
148.4
60
40
20
0
-20
-40
-60
-80
2400
0600
1200
1800
2400
0600
1200
01Apr90
02Apr90
Time

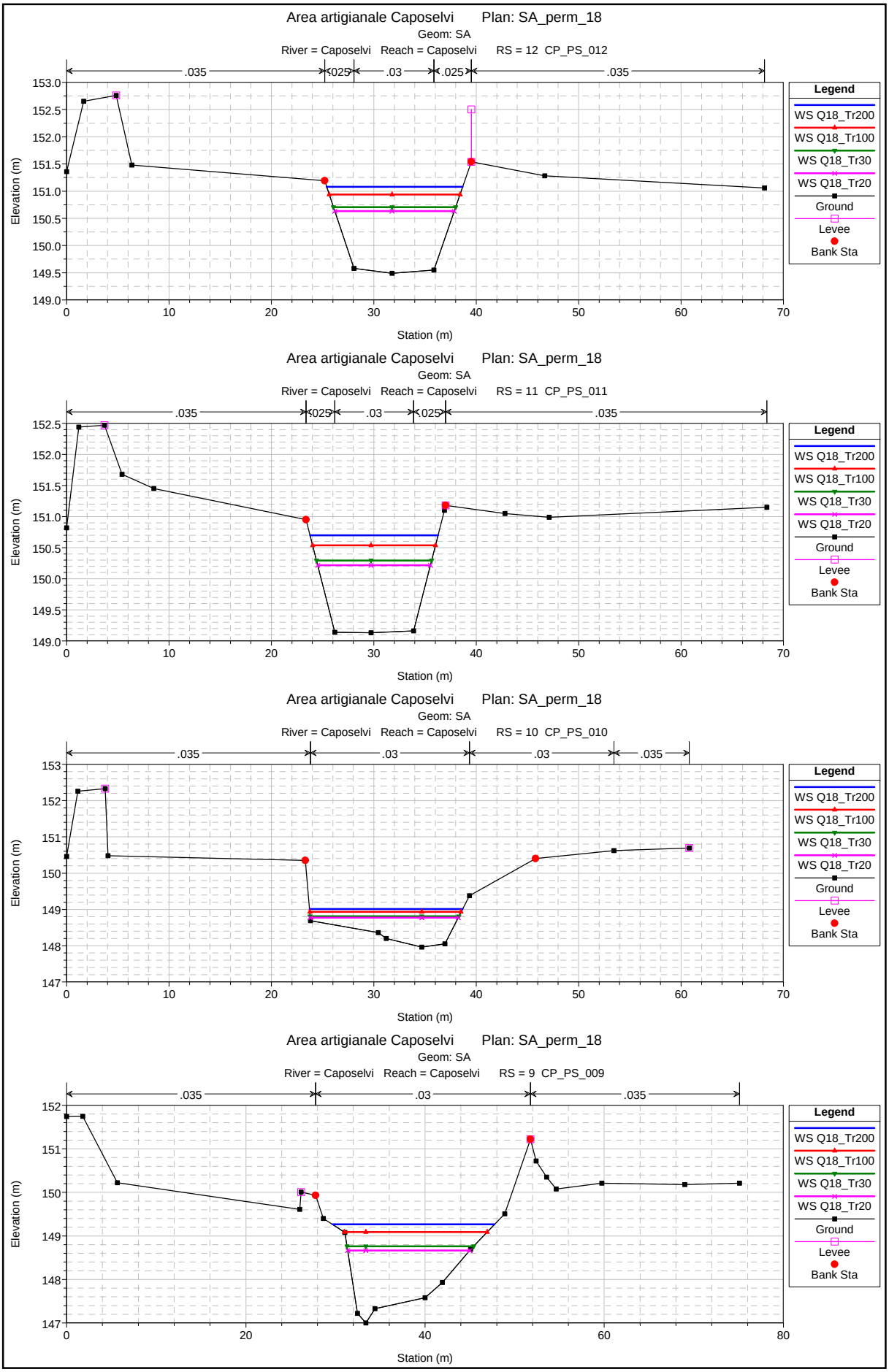

Plan: SA_200_cr Storage Area: Sx_valle
Legend
Stage
Net Inflow
Stage (m)
149.15
149.10
149.05
149.00
148.95
148.90
148.85
Flow (m3/s)
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
2400
0600
1200
1800
2400
0600
1200
01Apr90
02Apr90
Time

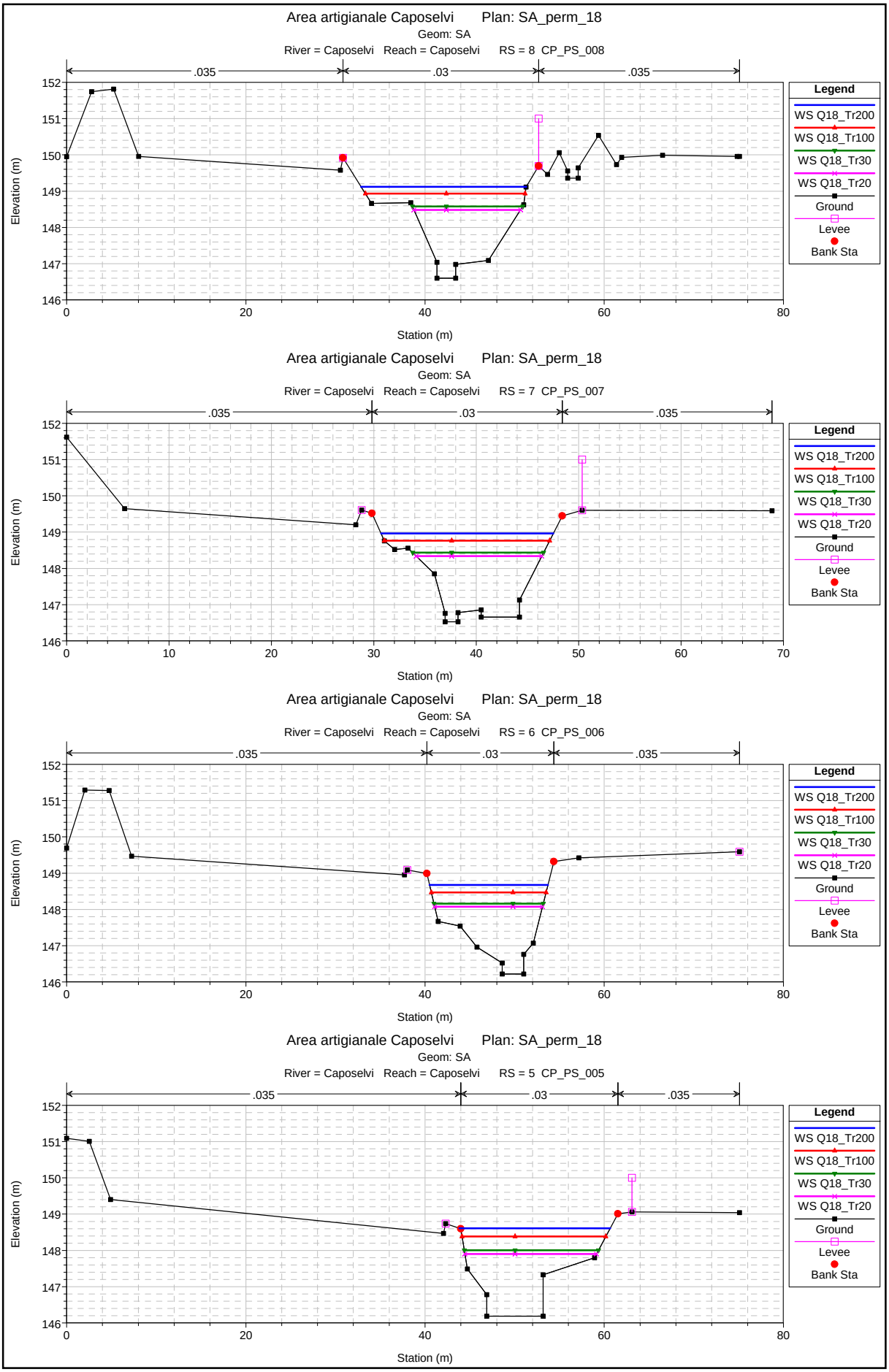

Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
Caposelvi Caposelvi
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
156
154
152
150
148
146
144
0
200
400
600
800
2
3
4
5
6
7
8
9
10
11
12
13
13.8
13.9
14.2
15
16
17
18
19

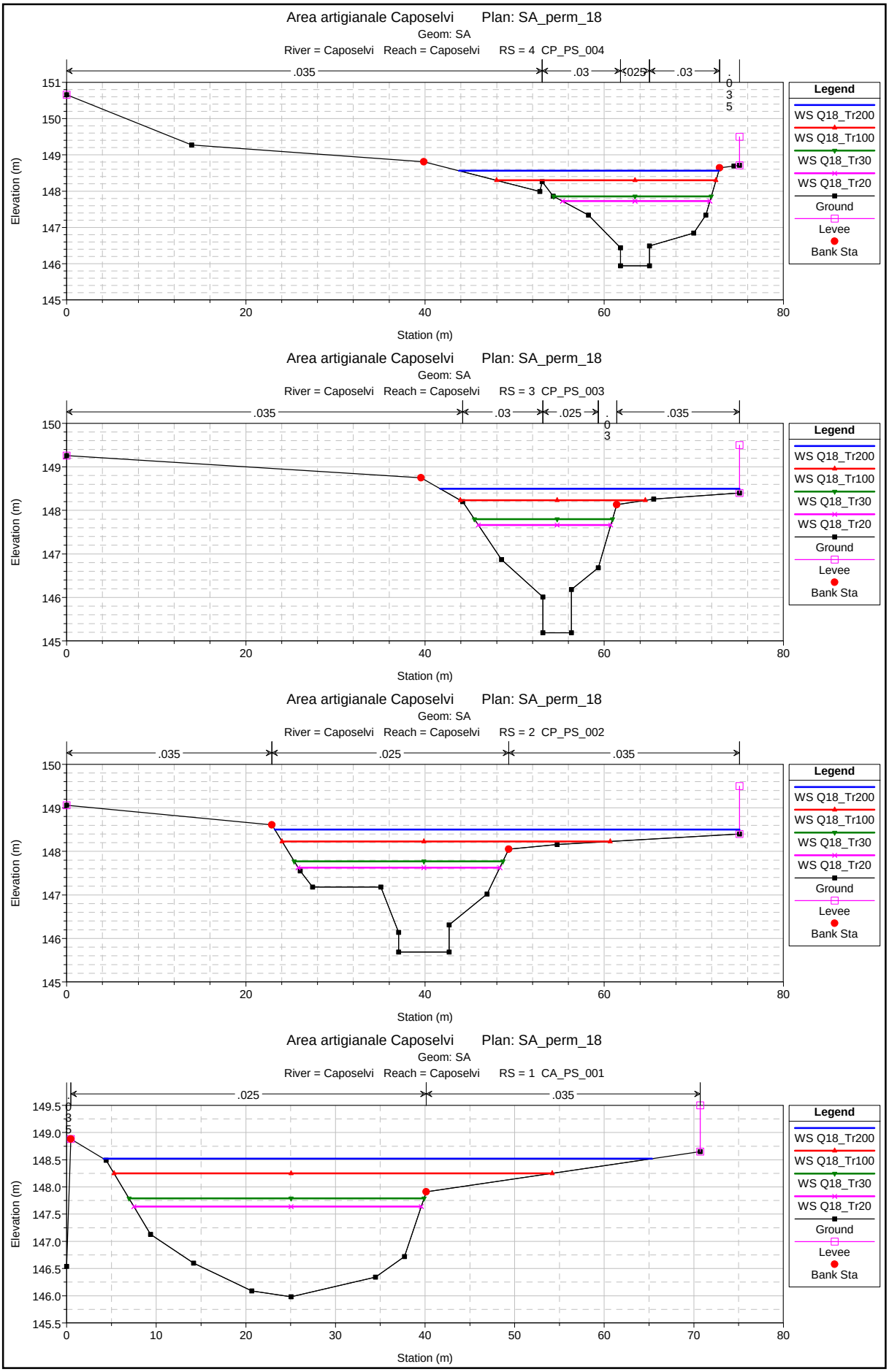

Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 19 CP_PS_019
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 18 CP_PS_018
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 17 CP_PS_017
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 16 CP_PS_016
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta


Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 15 CP_PS_015
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 14.2
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 14.1 CP_PS_014.1
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 14 BR SS 69
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta


Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 14 BR SS 69
.035
.025
.03
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 13.9 CP_PS_013.9
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 13.8 CP_PS_013.8
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 13 CP_PS_013


Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 12 CP_PS_012
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 11 CP_PS_011
.035
.025
.03
.025
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 10 CP_PS_010
.035
.03
.03
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 9 CP_PS_009
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta


Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 8 CP_PS_008
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 7 CP_PS_007
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 6 CP_PS_006
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 5 CP_PS_005
.035
.03
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta


Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 4 CP_PS_004
.035
.03
.025
.03
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 3 CP_PS_003
.035
.03
.025
.03
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 2 CP_PS_002
.035
.025
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Area artigianale Caposelvi Plan: SA_perm_18
Geom: SA
River = Caposelvi Reach = Caposelvi RS = 1 CA_PS_001
.025
.035
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta

HEC-RAS Plan: Sa_perm_18 River: Caposelvi Reach: Caposelvi

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caposelvi	19	Q18_Tr200	55.18	150.56	152.92	152.58	153.39	0.004319	3.03	18.19	11.01	0.75
Caposelvi	19	Q18_Tr100	46.27	150.56	152.72	152.38	153.15	0.004351	2.89	16.00	10.40	0.74
Caposelvi	19	Q18_Tr30	33.61	150.56	152.39	152.08	152.74	0.004400	2.65	12.70	9.41	0.73
Caposelvi	19	Q18_Tr20	30.03	150.56	152.28	151.98	152.61	0.004431	2.57	11.70	9.09	0.72
Caposelvi	18	Q18_Tr200	55.18	150.08	152.41	152.41	153.15	0.007256	3.80	14.54	9.92	1.00
Caposelvi	18	Q18_Tr100	46.27	150.08	152.22	152.22	152.90	0.007417	3.65	12.68	9.29	1.00
Caposelvi	18	Q18_Tr30	33.61	150.08	151.89	151.89	152.49	0.007898	3.42	9.81	8.23	1.00
Caposelvi	18	Q18_Tr20	30.03	150.08	151.79	151.79	152.36	0.008053	3.34	9.00	7.97	1.00
Caposelvi	17	Q18_Tr200	55.18	149.99	152.35	151.91	152.78	0.003594	2.90	19.06	10.67	0.69
Caposelvi	17	Q18_Tr100	46.27	149.99	152.14	151.73	152.53	0.003599	2.74	16.86	10.28	0.68
Caposelvi	17	Q18_Tr30	33.61	149.99	151.82	151.44	152.13	0.003535	2.47	13.63	9.68	0.66
Caposelvi	17	Q18_Tr20	30.03	149.99	151.72	151.36	152.00	0.003507	2.37	12.66	9.50	0.66
Caposelvi	16	Q18_Tr200	55.18	149.89	151.88	151.83	152.57	0.007140	3.67	15.04	9.96	0.95
Caposelvi	16	Q18_Tr100	46.27	149.89	151.75	151.64	152.33	0.006405	3.35	13.82	9.66	0.89
Caposelvi	16	Q18_Tr30	33.61	149.89	151.52	151.34	151.95	0.005559	2.89	11.62	9.09	0.82
Caposelvi	16	Q18_Tr20	30.03	149.89	151.44	151.24	151.83	0.005315	2.75	10.92	8.90	0.79
Caposelvi	15	Q18_Tr200	55.18	149.61	151.58	151.58	152.25	0.007709	3.64	15.18	11.25	1.00
Caposelvi	15	Q18_Tr100	46.27	149.61	151.40	151.40	152.02	0.008001	3.49	13.26	10.70	1.00
Caposelvi	15	Q18_Tr30	33.61	149.61	151.13	151.13	151.65	0.008421	3.22	10.45	9.84	1.00
Caposelvi	15	Q18_Tr20	30.03	149.61	151.04	151.04	151.54	0.008695	3.14	9.57	9.56	1.00
Caposelvi	14.2	Q18_Tr200	55.18	149.86	151.84	150.88	151.92	0.000726	1.32	42.84	25.79	0.31
Caposelvi	14.2	Q18_Tr100	46.27	149.86	151.64	150.79	151.72	0.000749	1.24	37.94	25.31	0.31
Caposelvi	14.2	Q18_Tr30	33.61	149.86	151.35	150.63	151.41	0.000781	1.11	30.63	24.57	0.31
Caposelvi	14.2	Q18_Tr20	30.03	149.86	151.26	150.58	151.32	0.000791	1.07	28.44	24.34	0.31
Caposelvi	14.1	Q18_Tr200	55.18	149.86	151.82	150.88	151.91	0.000755	1.34	42.30	25.73	0.32
Caposelvi	14.1	Q18_Tr100	46.27	149.86	151.63	150.79	151.71	0.000783	1.26	37.40	25.24	0.32
Caposelvi	14.1	Q18_Tr30	33.61	149.86	151.34	150.64	151.40	0.000826	1.13	30.09	24.50	0.32
Caposelvi	14.1	Q18_Tr20	30.03	149.86	151.25	150.59	151.31	0.000840	1.09	27.91	24.28	0.32

HEC-RAS Plan: Sa_perm_18 River: Caposelvi Reach: Caposelvi (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caposelvi	14		Bridge									
Caposelvi	13.9	Q18_Tr200	55.18	149.81	151.77	150.97	151.86	0.000938	1.29	42.89	29.44	0.34
Caposelvi	13.9	Q18_Tr100	46.27	149.81	151.58	150.87	151.66	0.001040	1.24	37.24	29.32	0.35
Caposelvi	13.9	Q18_Tr30	33.61	149.81	151.27	150.71	151.35	0.001342	1.19	28.24	29.11	0.39
Caposelvi	13.9	Q18_Tr20	30.03	149.81	151.18	150.65	151.25	0.001464	1.18	25.45	28.39	0.40
Caposelvi	13.8	Q18_Tr200	55.18	149.81	151.76	150.97	151.84	0.000961	1.30	42.58	29.44	0.34
Caposelvi	13.8	Q18_Tr100	46.27	149.81	151.56	150.87	151.64	0.001074	1.26	36.86	29.31	0.36
Caposelvi	13.8	Q18_Tr30	33.61	149.81	151.25	150.70	151.32	0.001436	1.21	27.66	29.10	0.40
Caposelvi	13.8	Q18_Tr20	30.03	149.81	151.15	150.65	151.22	0.001575	1.21	24.80	28.12	0.41
Caposelvi	13.7		Lat Struct									
Caposelvi	13	Q18_Tr200	55.18	149.69	151.63	151.01	151.81	0.001715	1.90	29.31	23.82	0.50
Caposelvi	13	Q18_Tr100	46.27	149.69	151.44	150.88	151.61	0.001858	1.83	25.27	19.40	0.51
Caposelvi	13	Q18_Tr30	33.61	149.69	151.14	150.67	151.29	0.002033	1.71	19.67	17.74	0.52
Caposelvi	13	Q18_Tr20	30.03	149.69	151.04	150.61	151.19	0.002095	1.67	18.03	17.22	0.52
Caposelvi	12	Q18_Tr200	55.18	149.49	151.08	151.06	151.66	0.007345	3.39	16.27	13.28	0.98
Caposelvi	12	Q18_Tr100	46.27	149.49	150.94	150.91	151.46	0.007355	3.21	14.42	12.77	0.96
Caposelvi	12	Q18_Tr30	33.61	149.49	150.70	150.66	151.14	0.007499	2.91	11.54	11.93	0.94
Caposelvi	12	Q18_Tr20	30.03	149.49	150.63	150.59	151.03	0.007555	2.81	10.68	11.67	0.94
Caposelvi	11	Q18_Tr200	55.18	149.13	150.70	150.70	151.33	0.007797	3.51	15.71	12.50	1.00
Caposelvi	11	Q18_Tr100	46.27	149.13	150.54	150.54	151.12	0.008134	3.37	13.74	12.00	1.00
Caposelvi	11	Q18_Tr30	33.61	149.13	150.29	150.29	150.78	0.008571	3.08	10.90	11.24	1.00
Caposelvi	11	Q18_Tr20	30.03	149.13	150.22	150.22	150.67	0.008696	2.98	10.06	11.01	1.00
Caposelvi	10	Q18_Tr200	55.18	147.96	149.01	149.47	150.52	0.047318	5.45	10.13	14.96	2.11
Caposelvi	10	Q18_Tr100	46.27	147.96	148.93	149.33	150.29	0.049112	5.17	8.95	14.79	2.12
Caposelvi	10	Q18_Tr30	33.61	147.96	148.81	149.14	149.93	0.052061	4.68	7.18	14.53	2.12
Caposelvi	10	Q18_Tr20	30.03	147.96	148.77	149.08	149.81	0.052981	4.51	6.66	14.46	2.12
Caposelvi	9	Q18_Tr200	55.18	147.00	149.26	148.89	149.57	0.004304	2.43	22.67	18.10	0.69

HEC-RAS Plan: Sa_perm_18 River: Caposelvi Reach: Caposelvi (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caposelvi	9	Q18_Tr100	46.27	147.00	149.09	148.74	149.37	0.004144	2.35	19.67	15.96	0.68
Caposelvi	9	Q18_Tr30	33.61	147.00	148.76	148.51	149.03	0.004807	2.28	14.77	14.15	0.71
Caposelvi	9	Q18_Tr20	30.03	147.00	148.67	148.44	148.92	0.004993	2.23	13.45	13.64	0.72
Caposelvi	8	Q18_Tr200	55.18	146.60	149.12	148.76	149.39	0.003887	2.31	23.88	18.43	0.65
Caposelvi	8	Q18_Tr100	46.27	146.60	148.93	148.50	149.19	0.004345	2.26	20.47	17.85	0.67
Caposelvi	8	Q18_Tr30	33.61	146.60	148.58	148.24	148.84	0.004305	2.28	14.73	12.33	0.67
Caposelvi	8	Q18_Tr20	30.03	146.60	148.48	148.15	148.73	0.004293	2.21	13.60	11.92	0.66
Caposelvi	7.8		Lat Struct									
Caposelvi	7	Q18_Tr200	55.18	146.53	148.97	148.42	149.23	0.003423	2.28	24.18	16.82	0.61
Caposelvi	7	Q18_Tr100	46.27	146.53	148.76	148.25	149.01	0.003735	2.22	20.83	16.13	0.62
Caposelvi	7	Q18_Tr30	33.61	146.53	148.43	147.96	148.66	0.003579	2.10	16.00	12.77	0.60
Caposelvi	7	Q18_Tr20	30.03	146.53	148.34	147.86	148.55	0.003481	2.02	14.86	12.27	0.59
Caposelvi	6	Q18_Tr200	55.18	146.22	148.67	148.32	149.05	0.004574	2.72	20.29	13.21	0.70
Caposelvi	6	Q18_Tr100	46.27	146.22	148.47	148.17	148.82	0.004854	2.62	17.66	12.81	0.71
Caposelvi	6	Q18_Tr30	33.61	146.22	148.16	147.94	148.46	0.005404	2.44	13.77	12.20	0.73
Caposelvi	6	Q18_Tr20	30.03	146.22	148.08	147.86	148.36	0.005426	2.35	12.77	12.03	0.73
Caposelvi	5	Q18_Tr200	55.18	146.19	148.61	148.06	148.85	0.002889	2.16	25.56	16.82	0.56
Caposelvi	5	Q18_Tr100	46.27	146.19	148.38	147.93	148.61	0.003256	2.12	21.81	16.05	0.58
Caposelvi	5	Q18_Tr30	33.61	146.19	148.01	147.69	148.23	0.004397	2.11	15.96	14.98	0.65
Caposelvi	5	Q18_Tr20	30.03	146.19	147.90	147.59	148.12	0.004753	2.08	14.45	14.70	0.67
Caposelvi	4	Q18_Tr200	55.18	145.94	148.56	147.85	148.70	0.002266	1.63	33.79	29.00	0.48
Caposelvi	4	Q18_Tr100	46.27	145.94	148.30	147.71	148.45	0.002702	1.73	26.69	24.50	0.53
Caposelvi	4	Q18_Tr30	33.61	145.94	147.85	147.49	148.04	0.003334	1.90	17.69	17.59	0.60
Caposelvi	4	Q18_Tr20	30.03	145.94	147.72	147.42	147.92	0.003808	1.94	15.46	16.44	0.64
Caposelvi	3	Q18_Tr200	55.18	145.19	148.50	147.48	148.63	0.001334	1.64	35.79	33.39	0.41
Caposelvi	3	Q18_Tr100	46.27	145.19	148.23	147.33	148.37	0.001372	1.65	28.22	20.64	0.41
Caposelvi	3	Q18_Tr30	33.61	145.19	147.80	147.09	147.93	0.001599	1.60	20.98	15.41	0.44
Caposelvi	3	Q18_Tr20	30.03	145.19	147.67	147.01	147.79	0.001688	1.58	18.95	14.79	0.45

HEC-RAS Plan: Sa_perm_18 River: Caposelvi Reach: Caposelvi (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Caposelvi	2.99		Lat Struct									
Caposelvi	2	Q18_Tr200	55.18	145.69	148.50	147.53	148.58	0.000557	1.25	49.27	51.87	0.31
Caposelvi	2	Q18_Tr100	46.27	145.69	148.23	147.42	148.31	0.000725	1.29	36.53	36.62	0.35
Caposelvi	2	Q18_Tr30	33.61	145.69	147.77	147.14	147.87	0.001207	1.37	24.48	23.30	0.43
Caposelvi	2	Q18_Tr20	30.03	145.69	147.62	147.06	147.73	0.001514	1.42	21.08	22.51	0.47
Caposelvi	1	Q18_Tr200	55.18	145.98	148.52	147.07	148.55	0.000171	0.79	75.76	61.22	0.18
Caposelvi	1	Q18_Tr100	46.27	145.98	148.25	146.98	148.28	0.000197	0.79	60.93	48.90	0.19
Caposelvi	1	Q18_Tr30	33.61	145.98	147.79	146.84	147.82	0.000274	0.78	42.90	32.92	0.22
Caposelvi	1	Q18_Tr20	30.03	145.98	147.64	146.80	147.67	0.000315	0.79	38.03	32.07	0.23

HEC-RAS Plan: Sa_perm_18

Storage Area	Profile	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
		(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
Dx	Q18_Tr200	148.40	148.40	1.62	30.63	0.00
Dx	Q18_Tr100	148.40	148.40	0.00	30.63	0.00
Dx	Q18_Tr30	148.40	148.40	0.00	30.63	0.00
Dx	Q18_Tr20	148.40	148.40	0.00	30.63	0.00
Sx_valle	Q18_Tr200	148.70	148.70	0.00	8.00	0.00
Sx_valle	Q18_Tr100	148.70	148.70	0.00	8.00	0.00
Sx_valle	Q18_Tr30	148.70	148.70	0.00	8.00	0.00
Sx_valle	Q18_Tr20	148.70	148.70	0.00	8.00	0.00

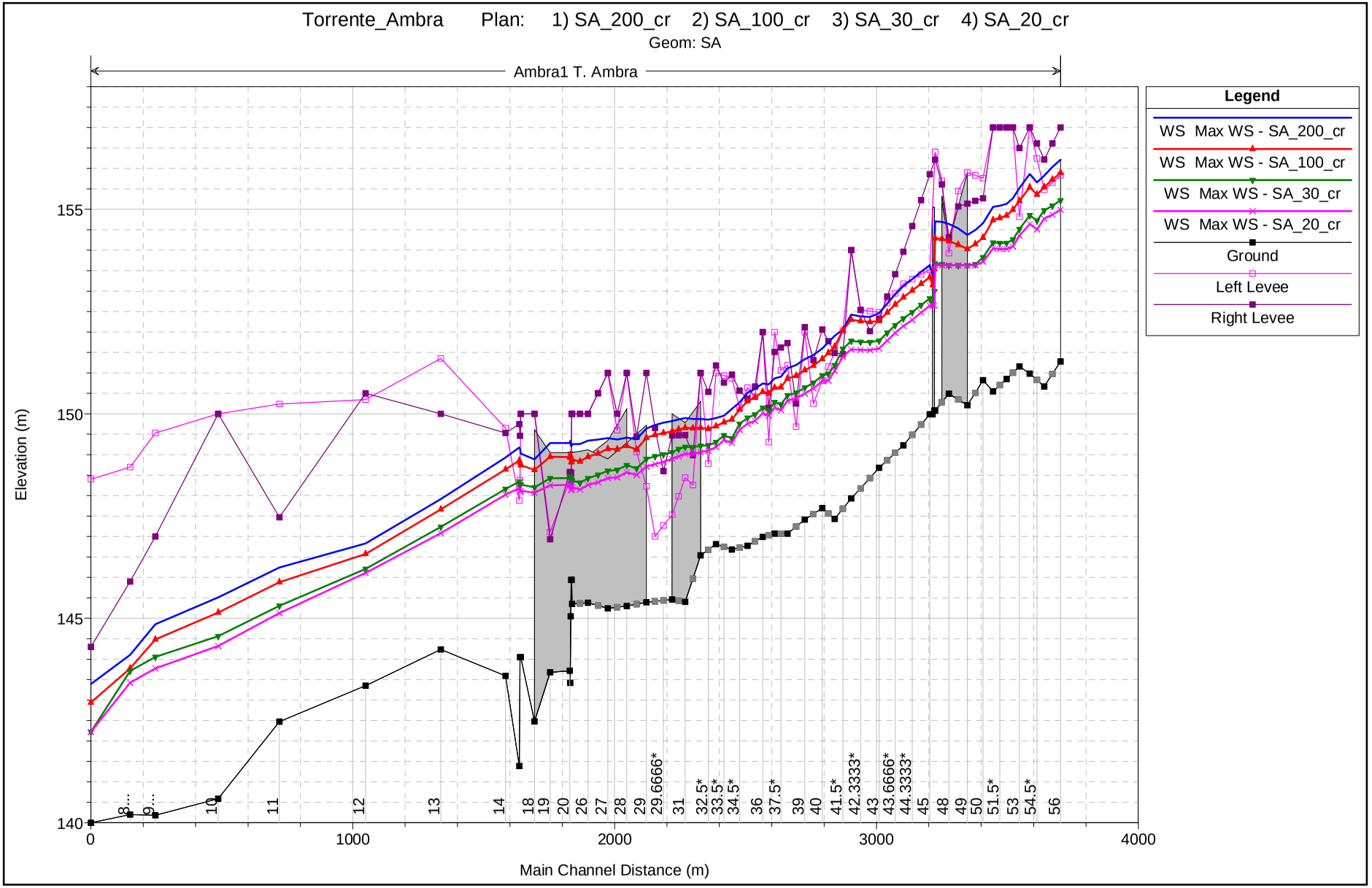
torrente Ambra

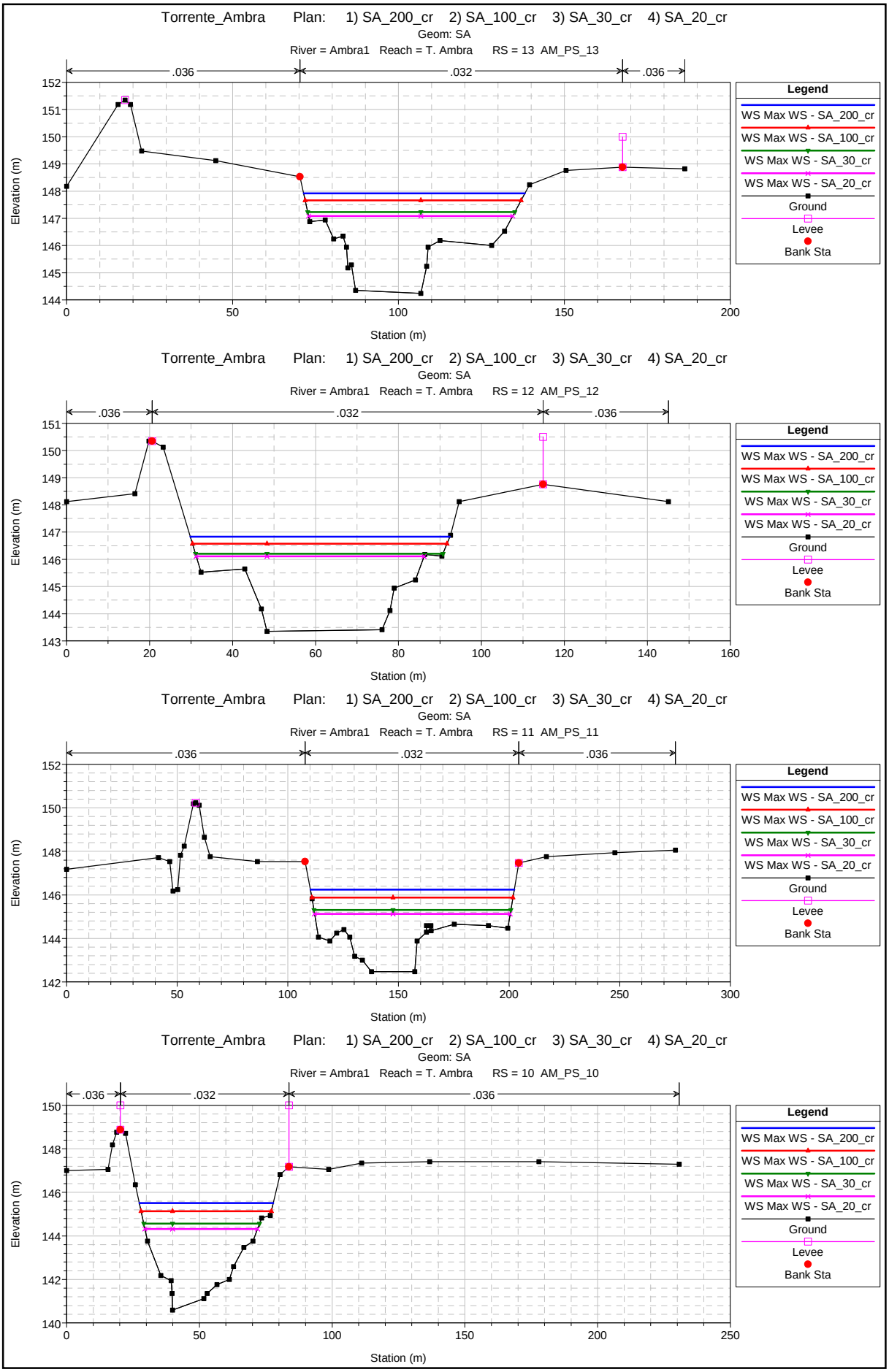
verifiche con Tpioggia critico per il Torrente Ambra

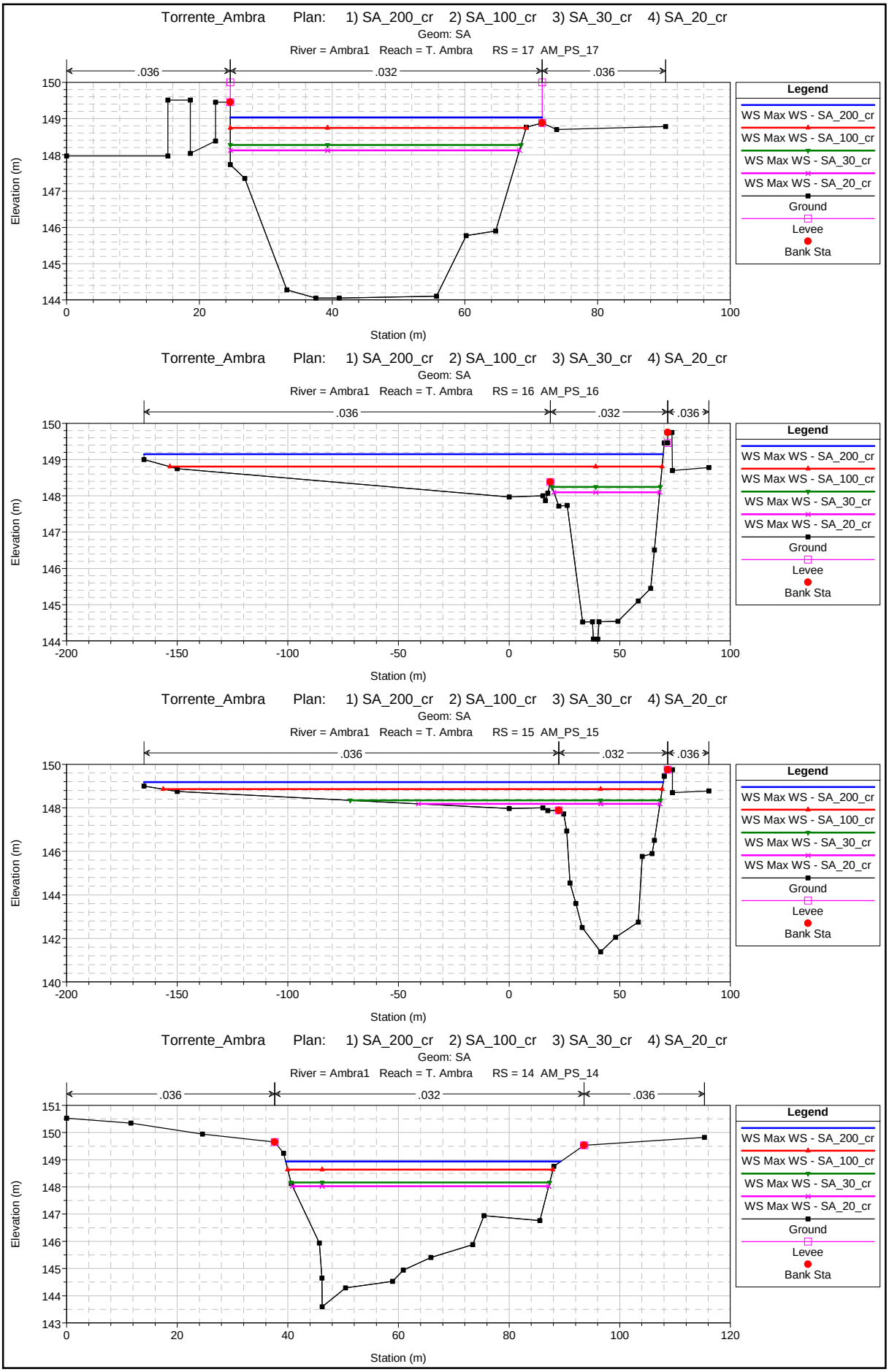
- moto vario
  Tr=200, 100, 30 e 20 anni
  profilo
  livelli idrici nelle sezioni di verifica
  tabella di output del software Hec-ras 4.0
  livelli e portate in ingresso alle aree di accumulo

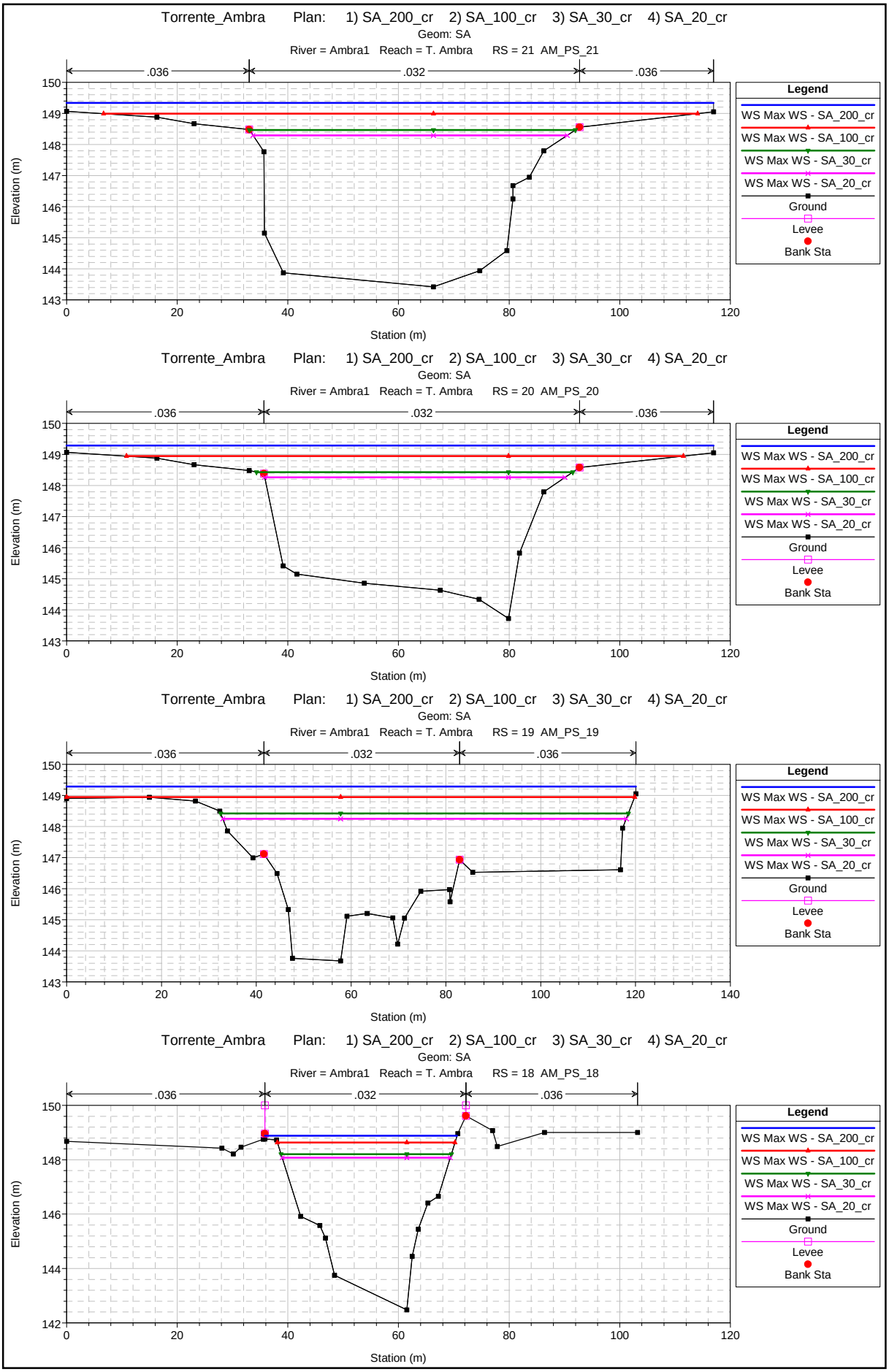
verifiche con Tpioggia critico per il fiume Arno

- moto permanente
  Tr=200, 100, 30 e 20 anni
  profilo
  livelli idrici nelle sezioni di verifica
  tabella di output del software Hec-ras 4.0


Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
Ambra1 T. Ambra
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Left Levee
Right Levee
Elevation (m)
155
150
145
140
0
1000
2000
3000
4000
Main Channel Distance (m)
8...
9...
10
11
12
13
14
18
19
20
26
27
28
29
29.6666*
31
32.5*
33.5*
34.5*
36
37.5*
39
40
41.5*
42.3333*
43
43.6666*
44.3333*
45
48
49
50
51.5*
53
54.5*
56


Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 13 AM_PS_13
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 12 AM_PS_12
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 11 AM_PS_11
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 10 AM_PS_10
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

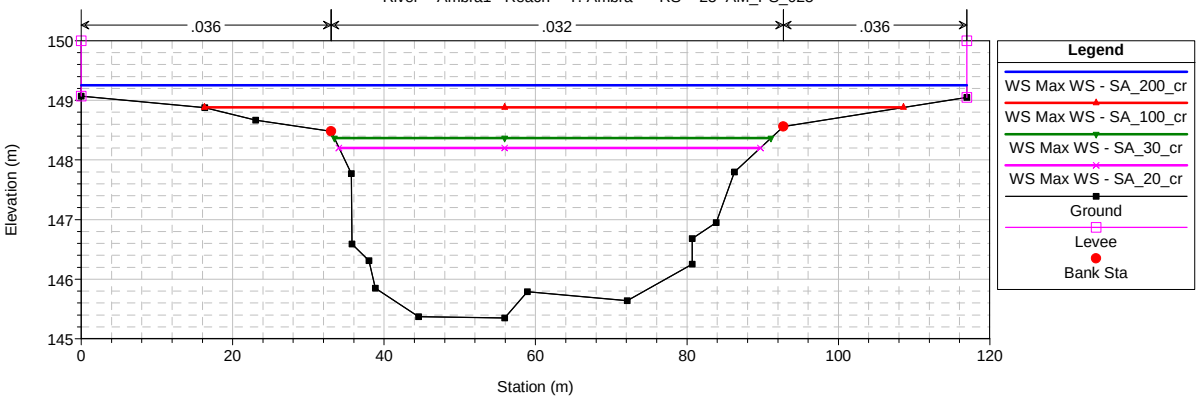

Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 17 AM_PS_17
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 16 AM_PS_16
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 15 AM_PS_15
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 14 AM_PS_14
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 21 AM_PS_21
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 20 AM_PS_20
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 19 AM_PS_19
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 18 AM_PS_18
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

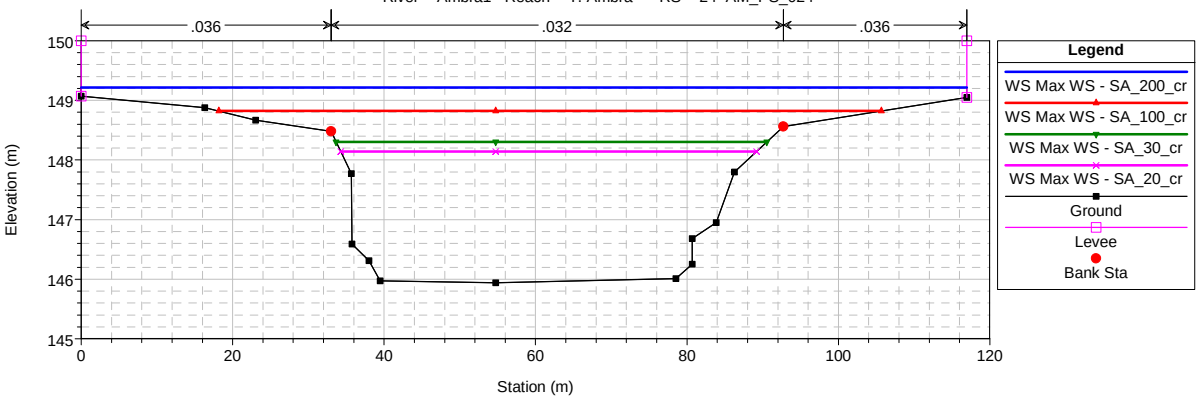
River = Ambra1 Reach = T. Ambra RS = 25 AM_PS_025



Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

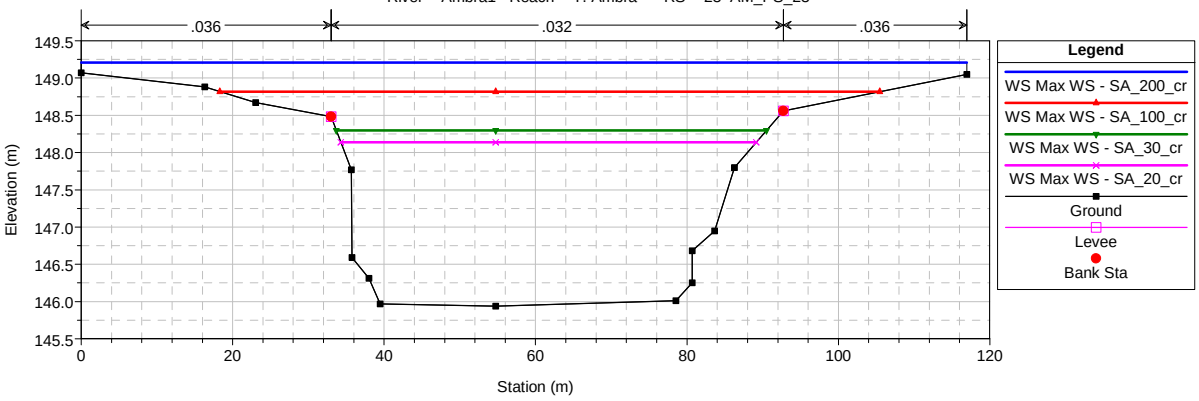
River = Ambra1 Reach = T. Ambra RS = 24 AM_PS_024



Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

Geom: SA

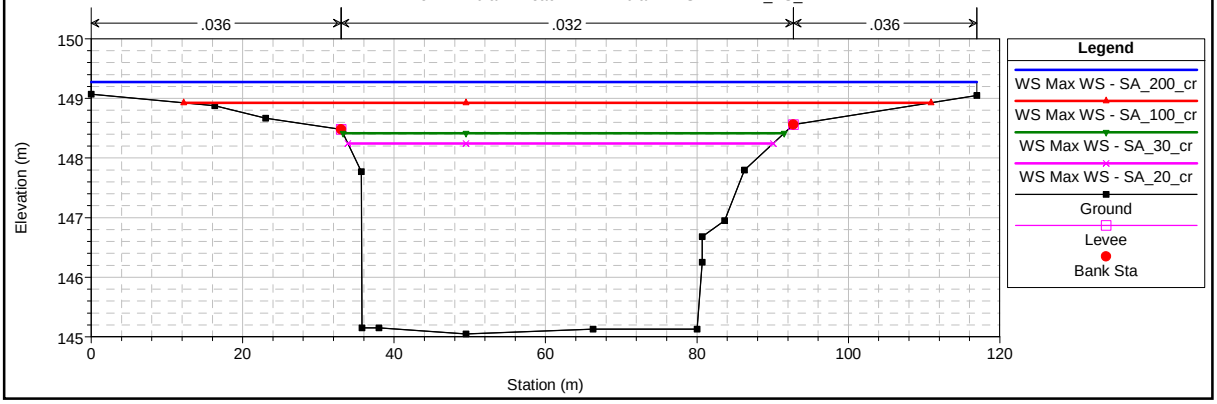
River = Ambra1 Reach = T. Ambra RS = 23 AM_PS_23

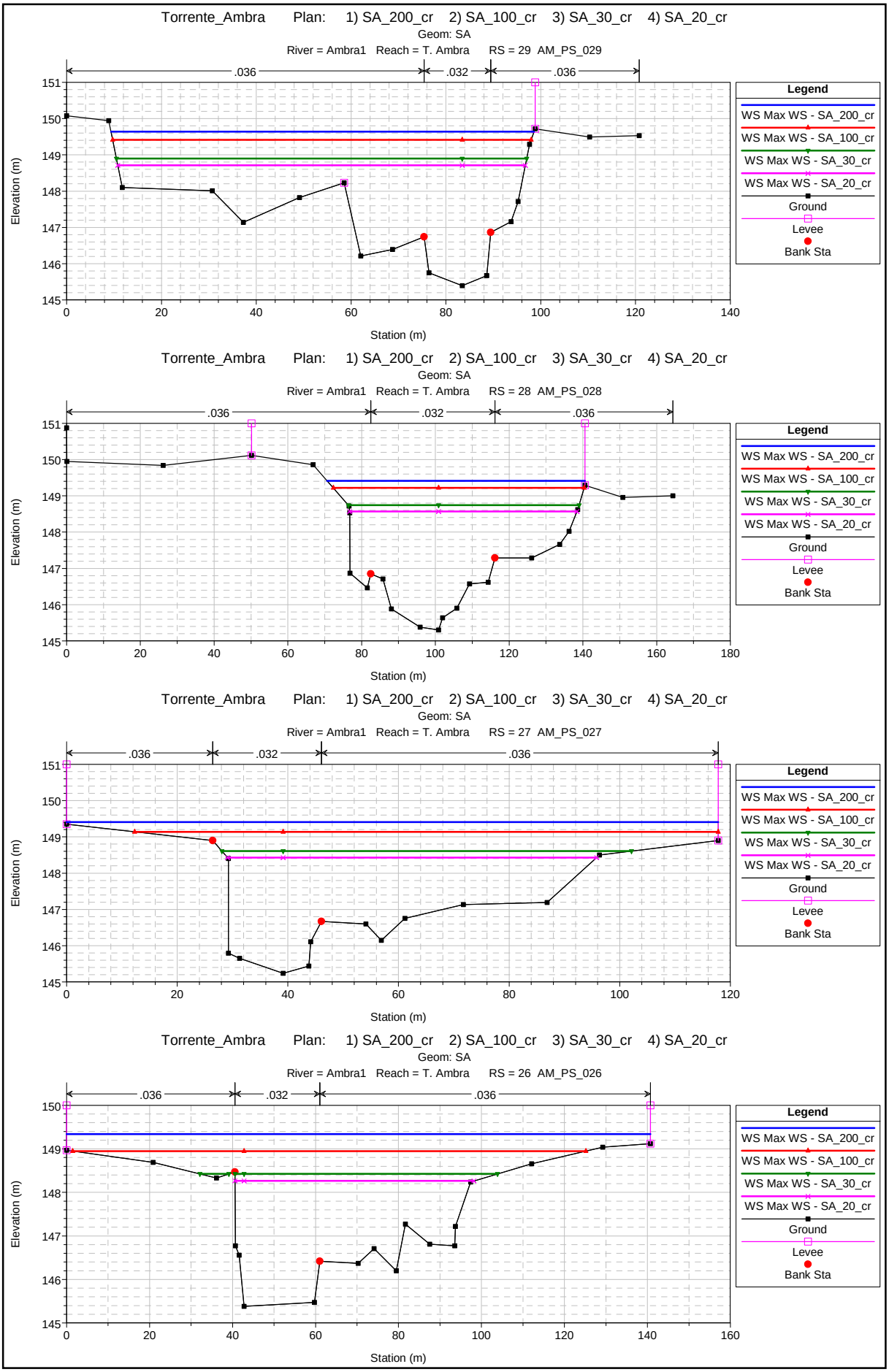


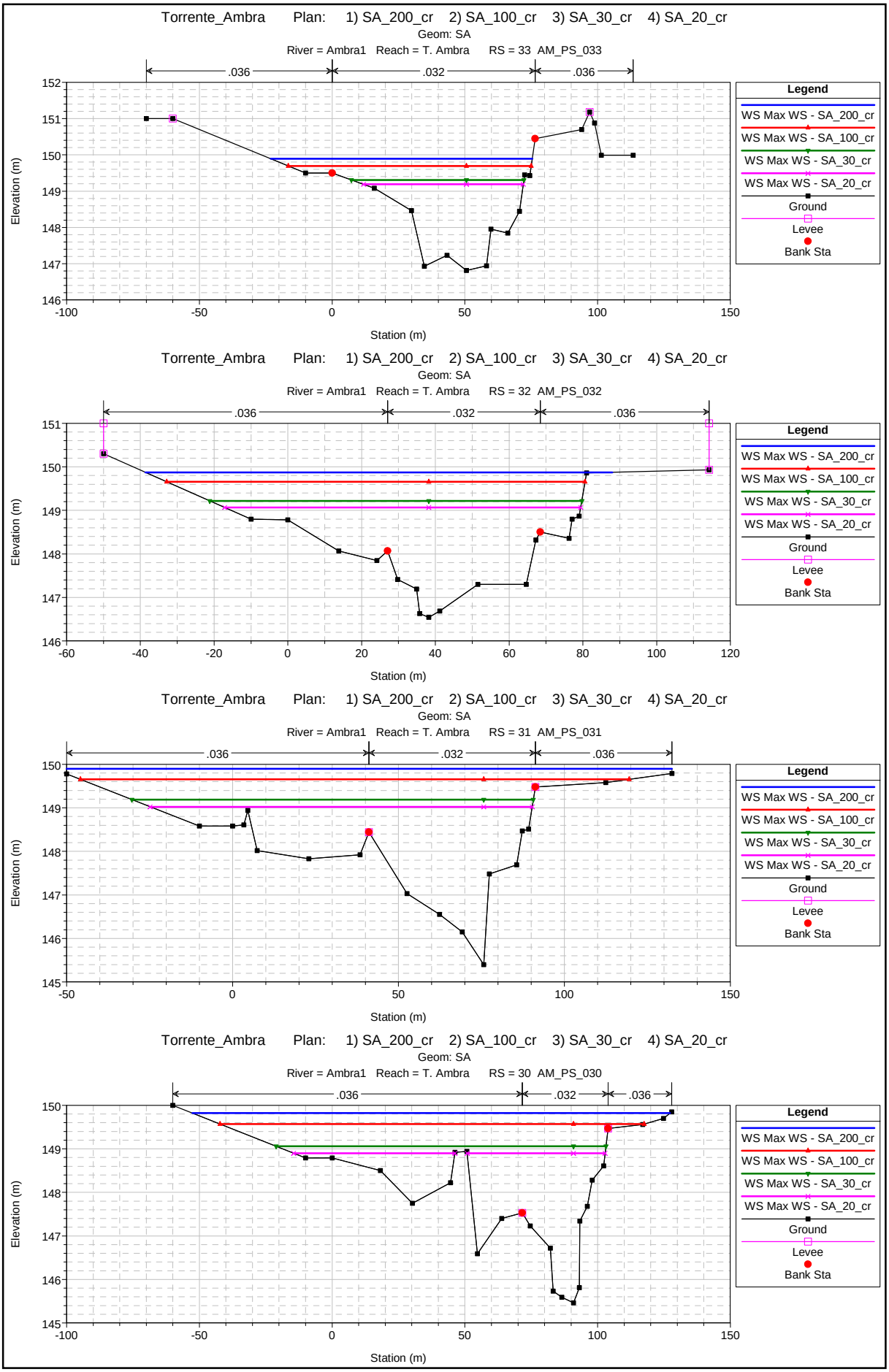
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr

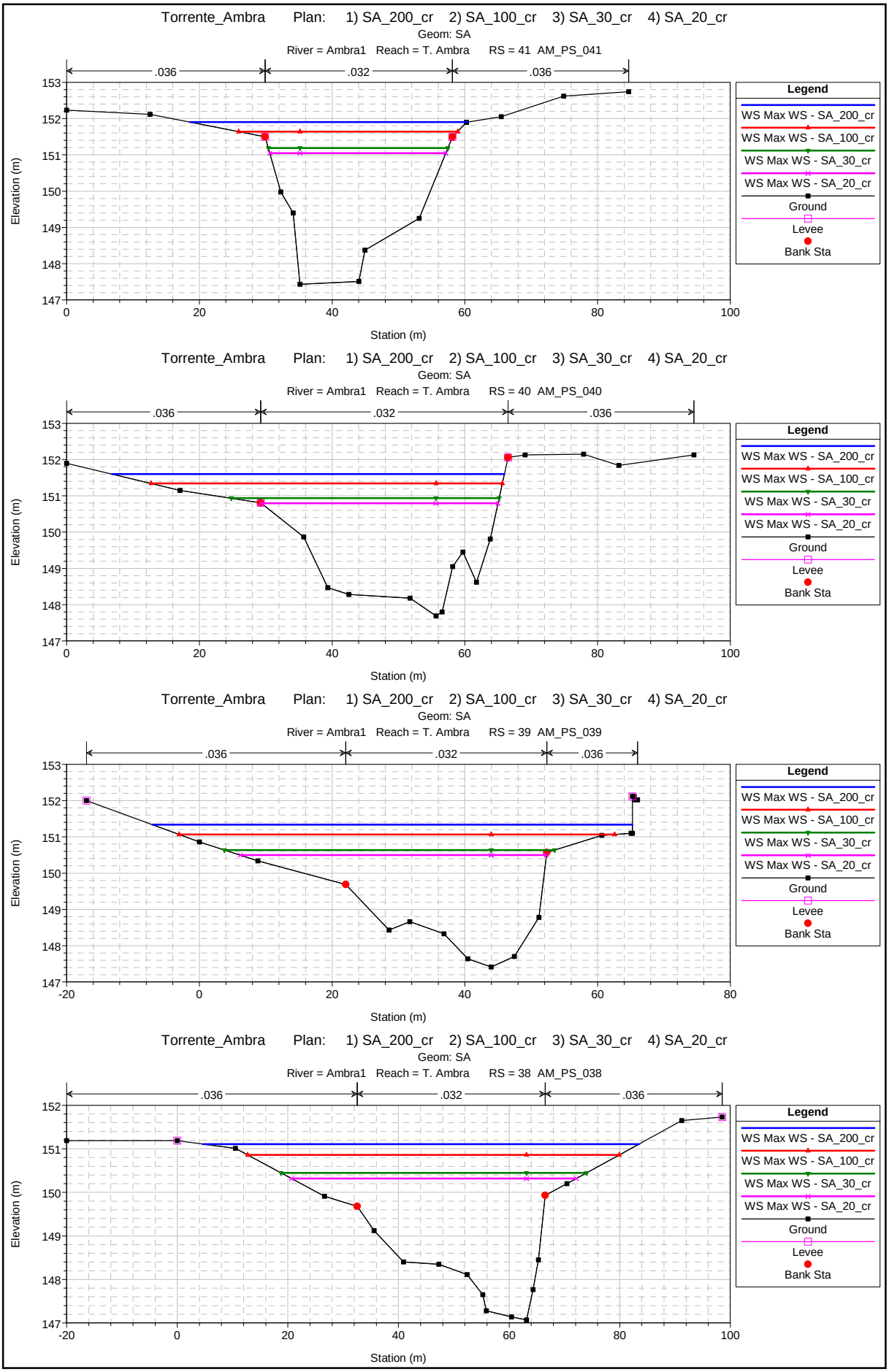
Geom: SA

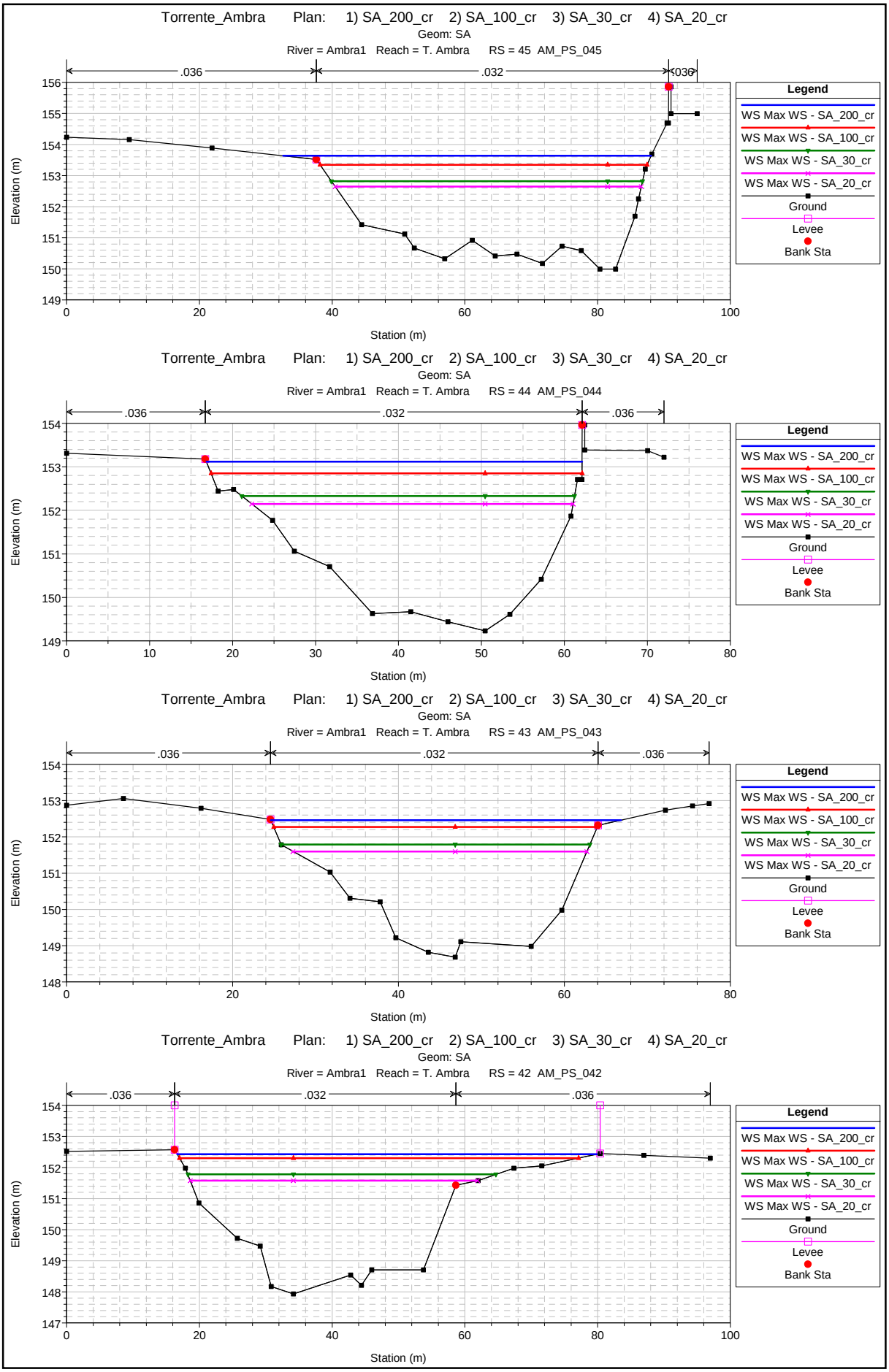
River = Ambra1 Reach = T. Ambra RS = 22 AM_PS_22

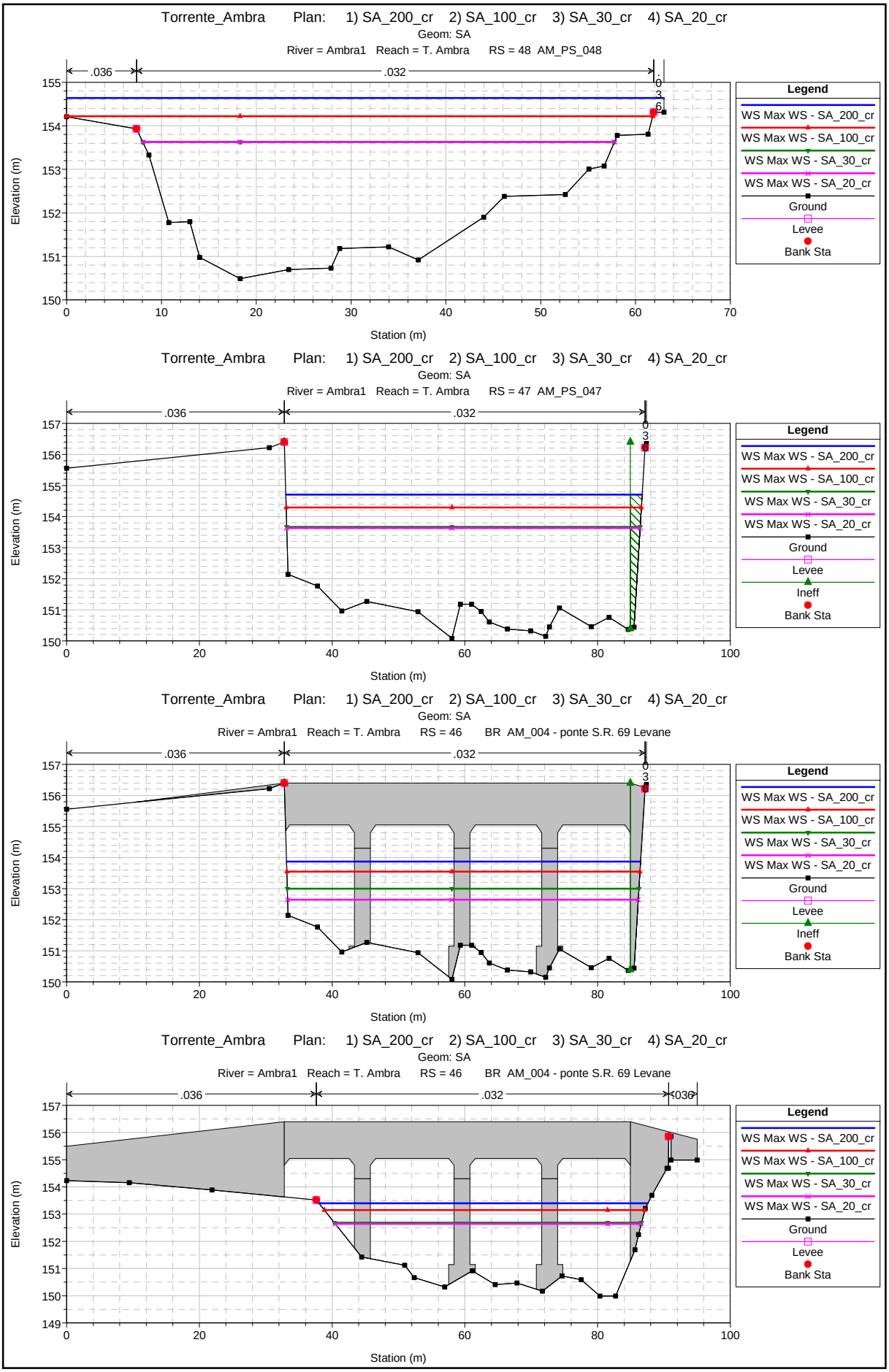


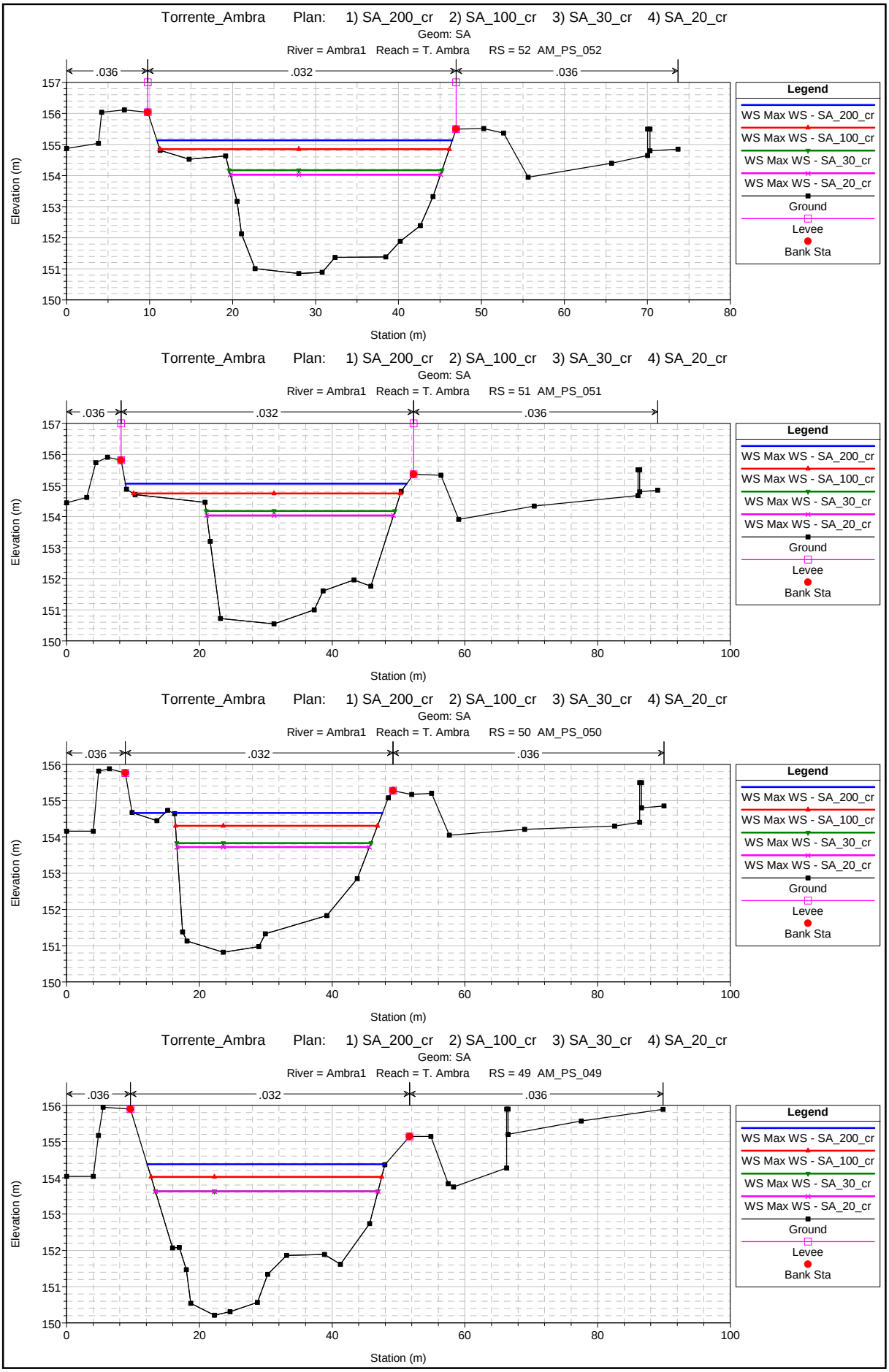

Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 29 AM_PS_029
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 28 AM_PS_028
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 27 AM_PS_027
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 26 AM_PS_026
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

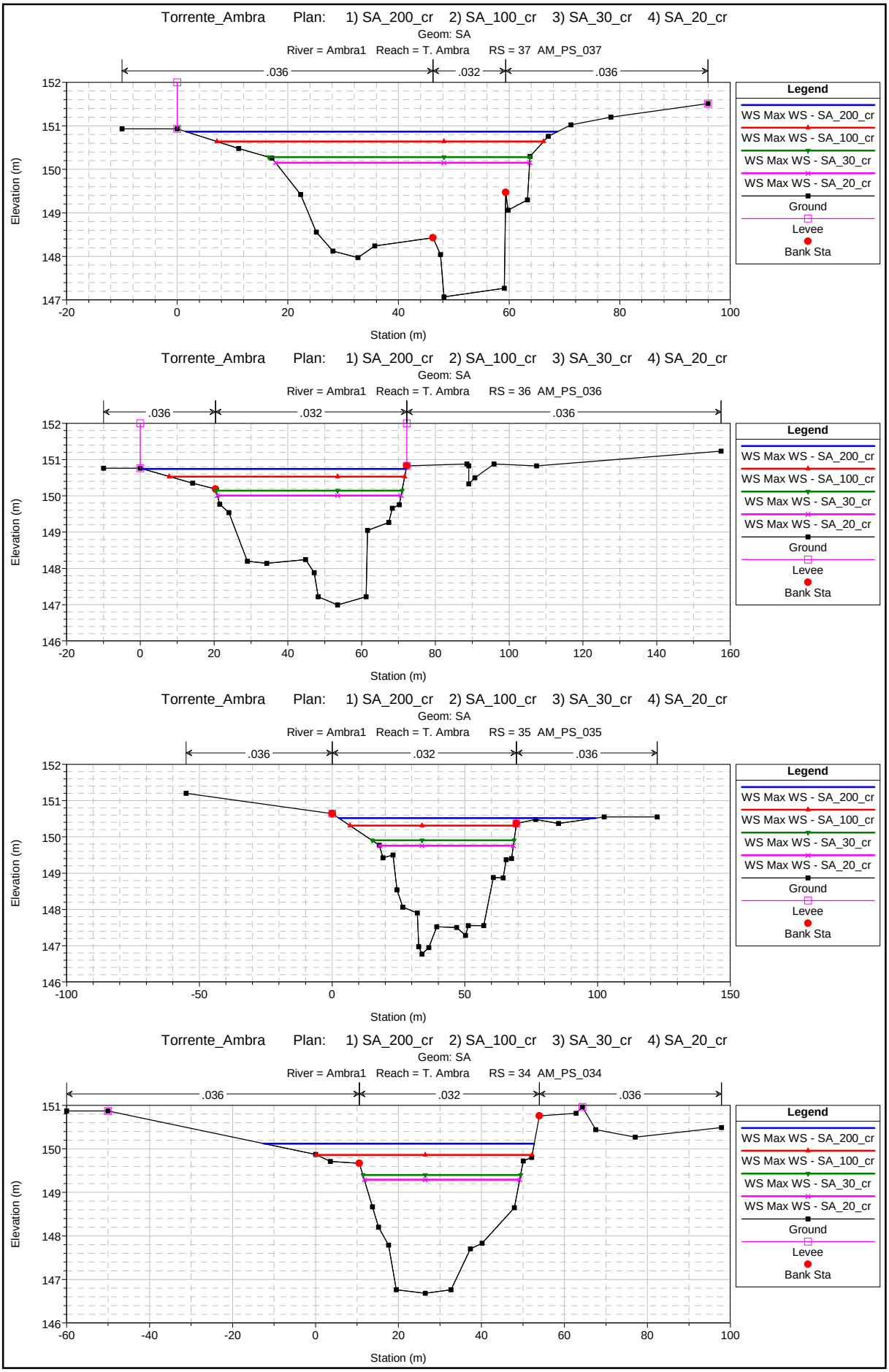

Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 33 AM_PS_033
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 32 AM_PS_032
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 31 AM_PS_031
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 30 AM_PS_030
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

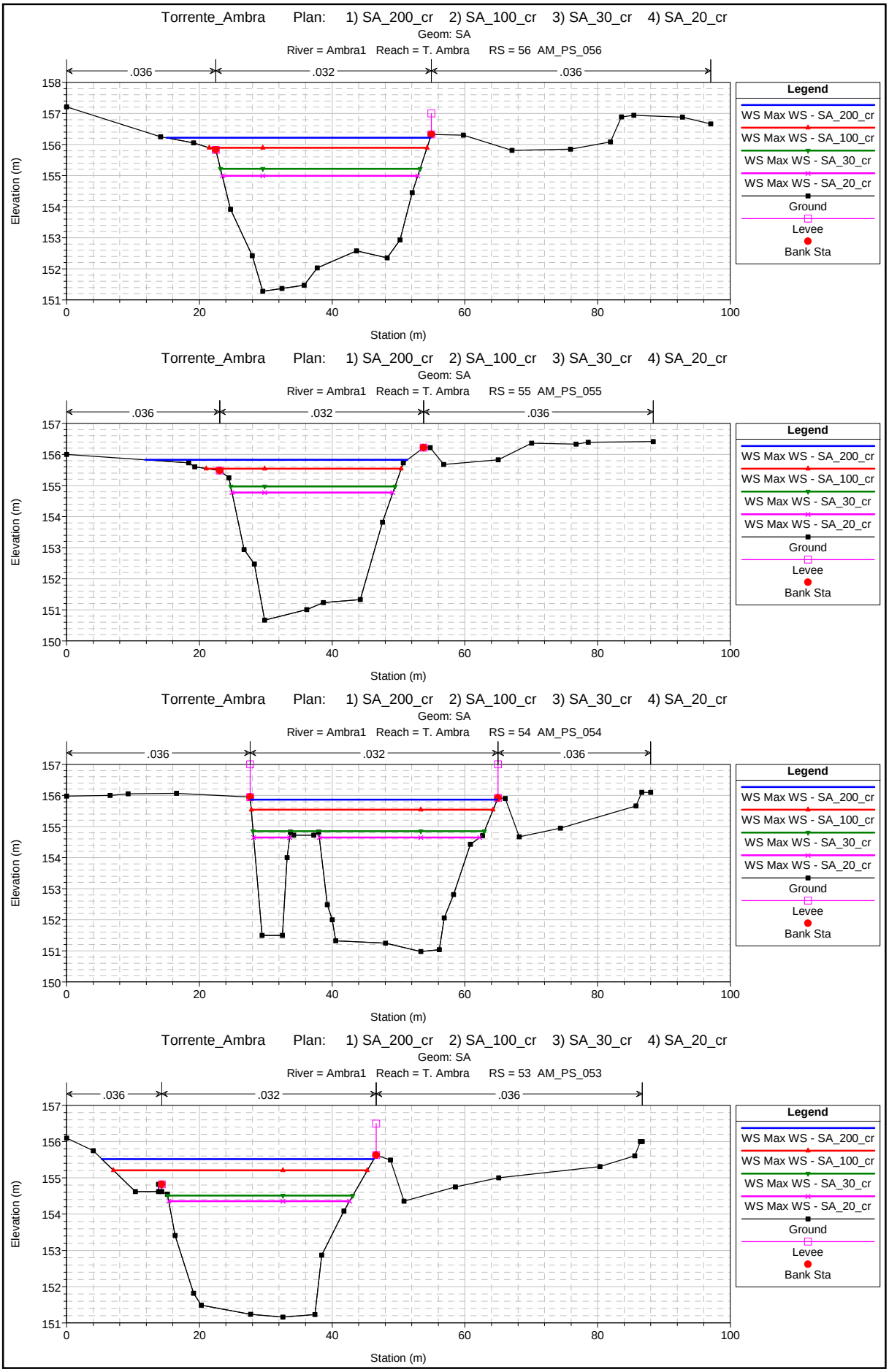

Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 41 AM_PS_041
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 40 AM_PS_040
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 39 AM_PS_039
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 38 AM_PS_038
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

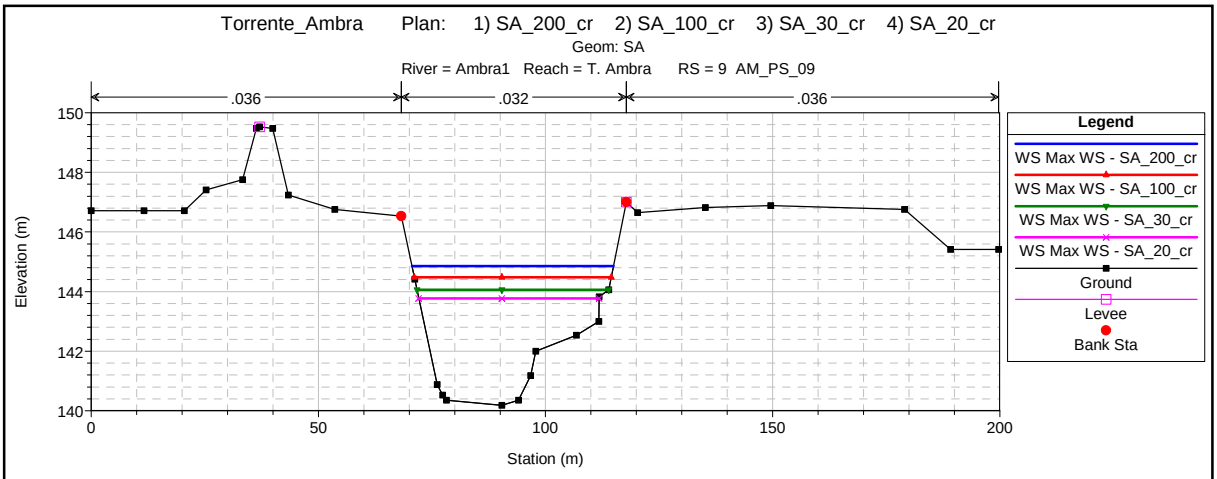

Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 45 AM_PS_045
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 44 AM_PS_044
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 43 AM_PS_043
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 42 AM_PS_042
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

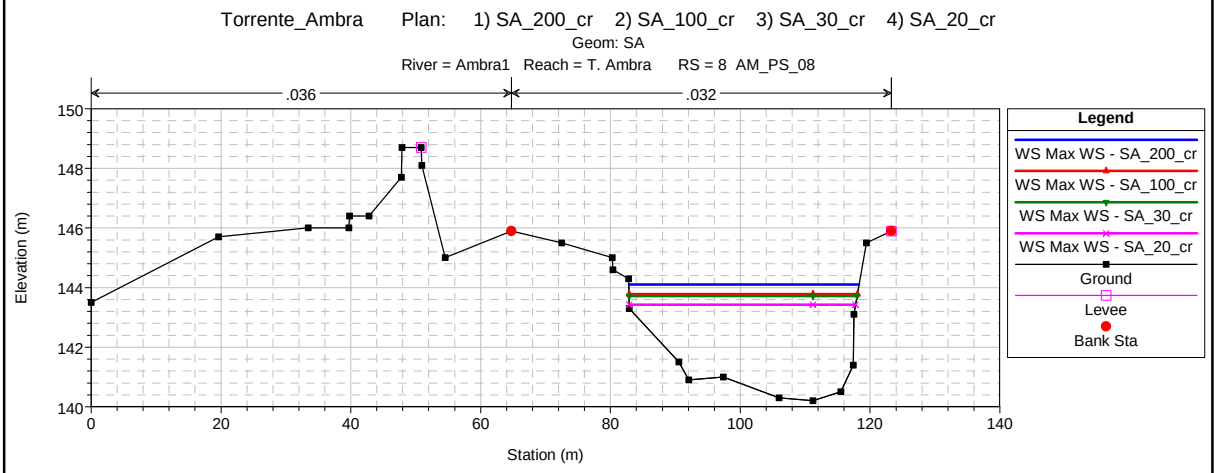

Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 48 AM_PS_048
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 47 AM_PS_047
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 46 BR AM_004 - ponte S.R. 69 Levane
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Ineff
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 46 BR AM_004 - ponte S.R. 69 Levane
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

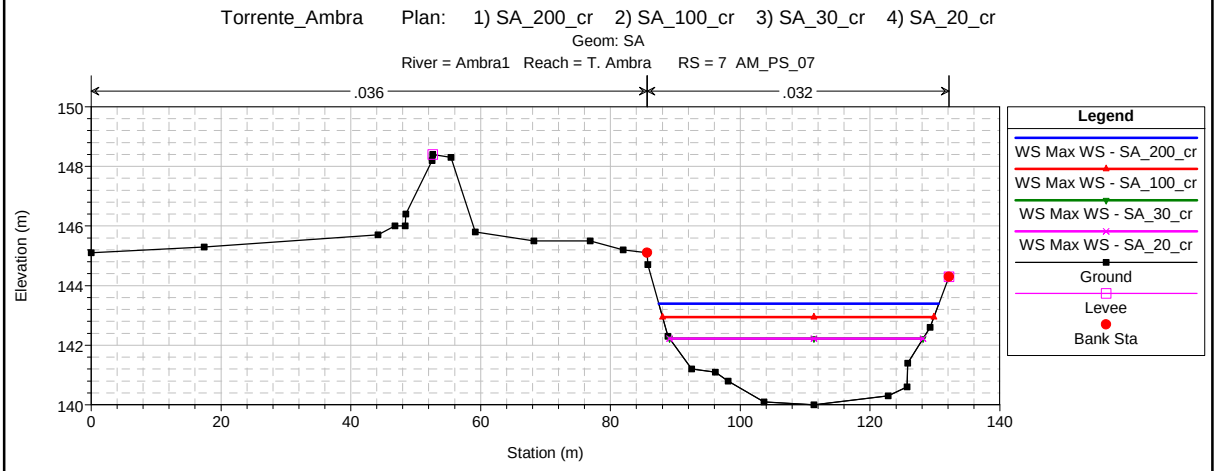

Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 52 AM_PS_052
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 51 AM_PS_051
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 50 AM_PS_050
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 49 AM_PS_049
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 37 AM_PS_037
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 36 AM_PS_036
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 35 AM_PS_035
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 34 AM_PS_034
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 56 AM_PS_056
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 55 AM_PS_055
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 54 AM_PS_054
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta
Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 53 AM_PS_053
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 9 AM_PS_09
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 8 AM_PS_08
.036
.032
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta


Torrente_Ambra Plan: 1) SA_200_cr 2) SA_100_cr 3) SA_30_cr 4) SA_20_cr
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 7 AM_PS_07
.036
.032
Elevation (m)
Station (m)
Legend
WS Max WS - SA_200_cr
WS Max WS - SA_100_cr
WS Max WS - SA_30_cr
WS Max WS - SA_20_cr
Ground
Levee
Bank Sta

HEC-RAS River: Ambra1 Reach: T. Ambra Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	56	Max WS	SA_200_cr	416.00	151.28	156.21		156.90	0.002881	3.67	114.48	39.77	0.63
T. Ambra	56	Max WS	SA_100_cr	347.48	151.28	155.89		156.47	0.002707	3.38	102.96	32.80	0.60
T. Ambra	56	Max WS	SA_30_cr	247.85	151.28	155.22		155.68	0.002692	3.02	82.00	30.07	0.58
T. Ambra	56	Max WS	SA_20_cr	218.92	151.28	154.99		155.42	0.002712	2.91	75.21	29.45	0.58
T. Ambra	55	Max WS	SA_200_cr	415.99	150.67	155.83		156.72	0.003928	4.20	100.46	39.49	0.72
T. Ambra	55	Max WS	SA_100_cr	347.47	150.67	155.54		156.29	0.003469	3.81	91.19	29.37	0.67
T. Ambra	55	Max WS	SA_30_cr	247.84	150.67	154.97		155.51	0.002787	3.25	76.35	24.75	0.59
T. Ambra	55	Max WS	SA_20_cr	218.93	150.67	154.78		155.25	0.002621	3.06	71.49	24.23	0.57
T. Ambra	54	Max WS	SA_200_cr	415.98	150.98	155.86		156.44	0.003133	3.38	123.13	37.19	0.59
T. Ambra	54	Max WS	SA_100_cr	347.47	150.98	155.54		156.04	0.002981	3.13	111.16	36.43	0.57
T. Ambra	54	Max WS	SA_30_cr	247.83	150.98	154.85		155.27	0.003244	2.86	86.70	34.85	0.58
T. Ambra	54	Max WS	SA_20_cr	218.93	150.98	154.64		155.03	0.002745	2.74	79.93	29.59	0.53
T. Ambra	53	Max WS	SA_200_cr	415.98	151.16	155.52		156.33	0.003928	4.03	107.26	40.98	0.72
T. Ambra	53	Max WS	SA_100_cr	347.47	151.16	155.21		155.92	0.003750	3.75	94.97	38.26	0.70
T. Ambra	53	Max WS	SA_30_cr	247.82	151.16	154.51		155.14	0.003953	3.49	71.02	27.89	0.70
T. Ambra	53	Max WS	SA_20_cr	218.92	151.16	154.36		154.91	0.003690	3.29	66.62	27.22	0.67
T. Ambra	52	Max WS	SA_200_cr	415.97	150.85	155.13		156.10	0.005817	4.37	95.28	35.60	0.85
T. Ambra	52	Max WS	SA_100_cr	347.46	150.85	154.85		155.69	0.005676	4.07	85.34	34.90	0.83
T. Ambra	52	Max WS	SA_30_cr	247.82	150.85	154.17		154.90	0.004660	3.78	65.60	25.67	0.75
T. Ambra	52	Max WS	SA_20_cr	218.92	150.85	154.03		154.67	0.004285	3.53	62.08	25.36	0.72
T. Ambra	51	Max WS	SA_200_cr	415.87	150.55	155.06		155.80	0.004619	3.80	109.42	42.40	0.76
T. Ambra	51	Max WS	SA_100_cr	347.46	150.55	154.74		155.41	0.004623	3.61	96.16	40.20	0.75
T. Ambra	51	Max WS	SA_30_cr	247.81	150.55	154.18		154.69	0.003010	3.16	78.35	28.43	0.61
T. Ambra	51	Max WS	SA_20_cr	218.92	150.55	154.04		154.48	0.002755	2.95	74.28	28.13	0.58
T. Ambra	50	Max WS	SA_200_cr	415.91	150.82	154.66		155.72	0.006956	4.57	91.08	36.31	0.92
T. Ambra	50	Max WS	SA_100_cr	347.46	150.82	154.31		155.28	0.006043	4.36	79.61	30.44	0.86
T. Ambra	50	Max WS	SA_30_cr	247.81	150.82	153.83		154.56	0.005551	3.79	65.35	29.26	0.81
T. Ambra	50	Max WS	SA_20_cr	218.91	150.82	153.72		154.35	0.005041	3.52	62.15	28.99	0.77
T. Ambra	49	Max WS	SA_200_cr	415.84	150.21	154.37		155.31	0.005373	4.28	97.20	35.86	0.83
T. Ambra	49	Max WS	SA_100_cr	347.46	150.21	154.03		154.88	0.005602	4.09	84.98	34.75	0.83
T. Ambra	49	Max WS	SA_30_cr	51.84	150.21	153.63		153.66	0.000212	0.73	71.32	33.53	0.16

HEC-RAS River: Ambra1 Reach: T. Ambra Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	49	Max WS	SA_20_cr	51.06	150.21	153.63		153.65	0.000206	0.72	71.32	33.53	0.16
T. Ambra	48.9			Lat Struct									
T. Ambra	48.8			Lat Struct									
T. Ambra	48	Max WS	SA_200_cr	418.16	150.49	154.64		155.00	0.001816	2.64	161.54	63.00	0.50
T. Ambra	48	Max WS	SA_100_cr	347.45	150.49	154.22		154.56	0.002142	2.59	135.23	61.82	0.53
T. Ambra	48	Max WS	SA_30_cr	51.71	150.49	153.63		153.64	0.000103	0.50	102.63	49.74	0.11
T. Ambra	48	Max WS	SA_20_cr	50.82	150.49	153.63		153.64	0.000099	0.50	102.63	49.74	0.11
T. Ambra	47	Max WS	SA_200_cr	415.80	150.08	154.70	152.77	154.93	0.000832	2.11	197.19	53.68	0.35
T. Ambra	47	Max WS	SA_100_cr	347.45	150.08	154.29	152.55	154.49	0.000843	1.98	175.80	53.51	0.34
T. Ambra	47	Max WS	SA_30_cr	247.81	150.08	153.67	152.22	153.82	0.000828	1.72	143.66	53.26	0.33
T. Ambra	47	Max WS	SA_20_cr	50.00	150.08	153.63	151.25	153.64	0.000035	0.35	141.60	53.24	0.07
T. Ambra	46			Bridge									
T. Ambra	45	Max WS	SA_200_cr	415.79	149.99	153.64		154.13	0.002811	3.10	134.25	55.47	0.61
T. Ambra	45	Max WS	SA_100_cr	347.44	149.99	153.34		153.78	0.002804	2.92	119.18	49.26	0.60
T. Ambra	45	Max WS	SA_30_cr	247.79	149.99	152.82		153.18	0.002905	2.63	94.24	46.87	0.59
T. Ambra	45	Max WS	SA_20_cr	218.93	149.99	152.65		152.98	0.003003	2.55	85.99	46.10	0.60
T. Ambra	44	Max WS	SA_200_cr	415.79	149.23	153.12		153.78	0.004009	3.61	115.33	45.28	0.72
T. Ambra	44	Max WS	SA_100_cr	347.43	149.23	152.85		153.43	0.003958	3.37	103.15	44.72	0.71
T. Ambra	44	Max WS	SA_30_cr	247.79	149.23	152.33		152.81	0.003904	3.07	80.73	40.09	0.69
T. Ambra	44	Max WS	SA_20_cr	218.91	149.23	152.15		152.60	0.003960	2.98	73.54	38.71	0.69
T. Ambra	43	Max WS	SA_200_cr	415.78	148.68	152.46		153.38	0.005785	4.25	97.99	42.20	0.86
T. Ambra	43	Max WS	SA_100_cr	344.21	148.68	152.27		153.01	0.005101	3.81	90.23	39.00	0.80
T. Ambra	43	Max WS	SA_30_cr	247.79	148.68	151.79		152.39	0.005257	3.45	71.91	37.21	0.79
T. Ambra	43	Max WS	SA_20_cr	218.89	148.68	151.60		152.18	0.005388	3.37	64.96	35.41	0.79
T. Ambra	42	Max WS	SA_200_cr	415.76	147.93	152.43		152.89	0.002113	3.04	144.35	63.25	0.54
T. Ambra	42	Max WS	SA_100_cr	344.10	147.93	152.30		152.65	0.001652	2.63	136.58	60.13	0.48
T. Ambra	42	Max WS	SA_30_cr	247.77	147.93	151.78		152.05	0.001536	2.30	108.95	46.41	0.45
T. Ambra	42	Max WS	SA_20_cr	218.90	147.93	151.58		151.82	0.001541	2.20	99.88	43.29	0.44

HEC-RAS River: Ambra1 Reach: T. Ambra Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	41	Max WS	SA_200_cr	415.76	147.43	151.91	151.69	153.07	0.005928	4.79	89.20	41.86	0.87
T. Ambra	41	Max WS	SA_100_cr	347.42	147.43	151.64		152.63	0.005631	4.39	79.39	32.99	0.84
T. Ambra	41	Max WS	SA_30_cr	247.77	147.43	151.19		151.90	0.004829	3.73	66.43	27.06	0.76
T. Ambra	41	Max WS	SA_20_cr	218.90	147.43	151.05		151.67	0.004462	3.50	62.63	26.52	0.73
T. Ambra	40	Max WS	SA_200_cr	415.75	147.69	151.60		152.46	0.005242	4.17	106.74	59.10	0.82
T. Ambra	40	Max WS	SA_100_cr	347.42	147.69	151.34		152.12	0.005232	3.92	92.33	52.94	0.81
T. Ambra	40	Max WS	SA_30_cr	247.77	147.69	150.93		151.52	0.004932	3.40	73.04	40.37	0.76
T. Ambra	40	Max WS	SA_20_cr	218.89	147.69	150.80		151.33	0.004805	3.22	67.88	35.68	0.75
T. Ambra	39	Max WS	SA_200_cr	415.74	147.41	151.33		152.10	0.004205	4.08	121.42	72.31	0.75
T. Ambra	39	Max WS	SA_100_cr	347.41	147.41	151.07		151.78	0.004328	3.88	102.63	65.62	0.75
T. Ambra	39	Max WS	SA_30_cr	247.77	147.41	150.64		151.22	0.004271	3.44	78.11	49.72	0.73
T. Ambra	39	Max WS	SA_20_cr	218.89	147.41	150.50		151.03	0.004193	3.27	71.46	46.13	0.71
T. Ambra	38	Max WS	SA_200_cr	415.74	147.07	151.11		151.79	0.003732	3.81	128.26	78.88	0.71
T. Ambra	38	Max WS	SA_100_cr	347.40	147.07	150.86		151.47	0.003673	3.56	110.33	67.21	0.69
T. Ambra	38	Max WS	SA_30_cr	247.77	147.07	150.45		150.93	0.003523	3.12	85.08	55.28	0.66
T. Ambra	38	Max WS	SA_20_cr	218.89	147.07	150.32		150.76	0.003411	2.95	78.13	51.51	0.64
T. Ambra	37	Max WS	SA_200_cr	415.73	147.07	150.87		151.58	0.005021	4.57	125.63	67.13	0.78
T. Ambra	37	Max WS	SA_100_cr	347.40	147.07	150.64		151.25	0.004552	4.17	111.51	59.07	0.73
T. Ambra	37	Max WS	SA_30_cr	247.76	147.07	150.28		150.70	0.003429	3.35	92.45	47.26	0.62
T. Ambra	37	Max WS	SA_20_cr	218.89	147.07	150.15		150.53	0.003211	3.15	86.41	45.93	0.60
T. Ambra	36	Max WS	SA_200_cr	415.71	146.99	150.74		151.29	0.003672	3.31	130.06	71.41	0.68
T. Ambra	36	Max WS	SA_100_cr	347.39	146.99	150.53		151.00	0.003465	3.04	116.03	63.84	0.65
T. Ambra	36	Max WS	SA_30_cr	247.76	146.99	150.15		150.50	0.003265	2.63	94.10	50.43	0.62
T. Ambra	36	Max WS	SA_20_cr	218.88	146.99	150.01		150.33	0.003219	2.51	87.29	49.82	0.60
T. Ambra	35	Max WS	SA_200_cr	415.68	146.77	150.52		151.03	0.004436	3.19	132.52	96.72	0.73
T. Ambra	35	Max WS	SA_100_cr	347.27	146.77	150.31		150.76	0.004088	2.98	116.70	62.60	0.70
T. Ambra	35	Max WS	SA_30_cr	247.75	146.77	149.90		150.26	0.003599	2.66	93.08	53.51	0.64
T. Ambra	35	Max WS	SA_20_cr	218.87	146.77	149.76		150.09	0.003449	2.56	85.52	50.47	0.63
T. Ambra	34	Max WS	SA_200_cr	415.63	146.68	150.12	150.00	151.00	0.005976	4.18	103.94	65.14	0.87
T. Ambra	34	Max WS	SA_100_cr	347.39	146.68	149.86	149.64	150.66	0.006133	3.96	89.01	52.05	0.87
T. Ambra	34	Max WS	SA_30_cr	247.69	146.68	149.40		150.05	0.006062	3.58	69.21	37.99	0.85

HEC-RAS River: Ambra1 Reach: T. Ambra Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	34	Max WS	SA_20_cr	218.86	146.68	149.29		149.87	0.005687	3.36	65.08	37.42	0.81
T. Ambra	33	Max WS	SA_200_cr	414.32	146.81	149.89		150.38	0.004822	3.12	137.79	98.50	0.75
T. Ambra	33	Max WS	SA_100_cr	346.91	146.81	149.69		150.14	0.005112	2.97	118.89	91.48	0.76
T. Ambra	33	Max WS	SA_30_cr	247.61	146.81	149.31		149.71	0.005405	2.80	88.49	65.02	0.77
T. Ambra	33	Max WS	SA_20_cr	218.78	146.81	149.19		149.56	0.005142	2.71	80.85	60.16	0.75
T. Ambra	32	Max WS	SA_200_cr	413.68	146.54	149.87		150.17	0.002108	2.73	197.02	126.62	0.53
T. Ambra	32	Max WS	SA_100_cr	345.75	146.54	149.66		149.93	0.002068	2.55	171.60	113.44	0.52
T. Ambra	32	Max WS	SA_30_cr	247.33	146.54	149.22		149.48	0.002451	2.44	124.66	100.88	0.55
T. Ambra	32	Max WS	SA_20_cr	218.43	146.54	149.07		149.33	0.002665	2.41	109.68	96.53	0.57
T. Ambra	31.9			Lat Struct									
T. Ambra	31.8			Lat Struct									
T. Ambra	31	Max WS	SA_200_cr	413.23	145.40	149.90		150.05	0.001112	2.01	268.64	182.42	0.39
T. Ambra	31	Max WS	SA_100_cr	345.80	145.40	149.65		149.81	0.001183	1.95	225.69	165.32	0.39
T. Ambra	31	Max WS	SA_30_cr	247.29	145.40	149.19		149.34	0.001392	1.87	162.85	120.99	0.41
T. Ambra	31	Max WS	SA_20_cr	218.34	145.40	149.02		149.17	0.001514	1.85	143.34	115.14	0.43
T. Ambra	30	Max WS	SA_200_cr	411.61	145.46	149.82		150.00	0.001458	2.30	256.57	179.93	0.43
T. Ambra	30	Max WS	SA_100_cr	345.62	145.46	149.57		149.75	0.001605	2.27	213.59	159.73	0.45
T. Ambra	30	Max WS	SA_30_cr	247.07	145.46	149.06		149.27	0.002243	2.36	143.76	124.25	0.51
T. Ambra	30	Max WS	SA_20_cr	218.09	145.46	148.90		149.09	0.002152	2.21	124.61	112.76	0.50
T. Ambra	29	Max WS	SA_200_cr	409.44	145.39	149.64		149.87	0.001361	2.77	211.25	89.24	0.44
T. Ambra	29	Max WS	SA_100_cr	340.13	145.39	149.42		149.62	0.001266	2.57	191.25	88.27	0.42
T. Ambra	29	Max WS	SA_30_cr	246.80	145.39	148.90		149.10	0.001479	2.52	146.16	86.53	0.45
T. Ambra	29	Max WS	SA_20_cr	217.31	145.39	148.71		148.91	0.001612	2.53	129.86	85.96	0.46
T. Ambra	28.8			Lat Struct									
T. Ambra	28	Max WS	SA_200_cr	402.51	145.30	149.42		149.74	0.001525	2.73	175.23	69.94	0.47
T. Ambra	28	Max WS	SA_100_cr	339.00	145.30	149.22		149.49	0.001365	2.48	161.55	68.03	0.44
T. Ambra	28	Max WS	SA_30_cr	246.42	145.30	148.74		148.95	0.001320	2.19	130.46	62.55	0.42
T. Ambra	28	Max WS	SA_20_cr	216.67	145.30	148.57		148.77	0.001309	2.09	119.80	61.67	0.42

HEC-RAS River: Ambra1 Reach: T. Ambra Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	27.9			Lat Struct									
T. Ambra	27	Max WS	SA_200_cr	386.08	145.24	149.41		149.62	0.001514	2.49	207.61	117.82	0.43
T. Ambra	27	Max WS	SA_100_cr	335.75	145.24	149.14		149.36	0.001741	2.52	177.51	105.53	0.46
T. Ambra	27	Max WS	SA_30_cr	245.75	145.24	148.61		148.82	0.001920	2.47	129.62	74.03	0.47
T. Ambra	27	Max WS	SA_20_cr	215.34	145.24	148.43		148.63	0.001795	2.37	117.35	66.76	0.45
T. Ambra	26	Max WS	SA_200_cr	362.25	145.38	149.34		149.54	0.001234	2.48	223.72	140.71	0.41
T. Ambra	26	Max WS	SA_100_cr	334.34	145.38	148.95		149.23	0.001855	2.82	170.43	123.69	0.49
T. Ambra	26	Max WS	SA_30_cr	244.01	145.38	148.43		148.68	0.001901	2.56	120.61	70.35	0.48
T. Ambra	26	Max WS	SA_20_cr	213.08	145.38	148.26		148.48	0.001742	2.37	110.50	57.62	0.46
T. Ambra	25	Max WS	SA_200_cr	368.98	145.35	149.26		149.44	0.000919	1.95	208.12	116.96	0.36
T. Ambra	25	Max WS	SA_100_cr	332.75	145.35	148.88		149.10	0.001223	2.06	166.53	92.31	0.40
T. Ambra	25	Max WS	SA_30_cr	243.24	145.35	148.37		148.55	0.001277	1.87	129.77	57.67	0.40
T. Ambra	25	Max WS	SA_20_cr	211.82	145.35	148.20		148.36	0.001184	1.76	120.48	55.66	0.38
T. Ambra	24	Max WS	SA_200_cr	368.76	145.94	149.22		149.44	0.001254	2.14	189.46	116.96	0.41
T. Ambra	24	Max WS	SA_100_cr	331.84	145.94	148.82		149.09	0.001795	2.32	147.10	87.51	0.48
T. Ambra	24	Max WS	SA_30_cr	242.12	145.94	148.30		148.54	0.002025	2.16	111.97	56.89	0.49
T. Ambra	24	Max WS	SA_20_cr	210.15	145.94	148.14		148.36	0.001924	2.04	103.01	54.92	0.48
T. Ambra	23	Max WS	SA_200_cr	369.14	145.94	149.21		149.44	0.001279	2.16	188.07	116.96	0.41
T. Ambra	23	Max WS	SA_100_cr	331.85	145.94	148.82		149.09	0.001811	2.32	146.61	87.17	0.48
T. Ambra	23	Max WS	SA_30_cr	242.06	145.94	148.30		148.54	0.002046	2.17	111.57	56.83	0.49
T. Ambra	23	Max WS	SA_20_cr	209.54	145.94	148.14		148.35	0.001933	2.04	102.63	54.86	0.48
T. Ambra	22	Max WS	SA_200_cr	371.39	145.05	149.28		149.42	0.000617	1.72	236.28	116.96	0.29
T. Ambra	22	Max WS	SA_100_cr	333.94	145.05	148.93		149.08	0.000742	1.76	196.73	98.74	0.32
T. Ambra	22	Max WS	SA_30_cr	243.66	145.05	148.41		148.54	0.000699	1.54	158.14	58.25	0.30
T. Ambra	22	Max WS	SA_20_cr	212.43	145.05	148.25		148.35	0.000626	1.43	148.49	56.17	0.28
T. Ambra	21	Max WS	SA_200_cr	372.36	143.42	149.33		149.42	0.000270	1.34	300.96	116.96	0.20
T. Ambra	21	Max WS	SA_100_cr	334.83	143.42	148.99		149.08	0.000294	1.33	261.24	107.40	0.21
T. Ambra	21	Max WS	SA_30_cr	244.14	143.42	148.47		148.53	0.000242	1.11	219.32	58.93	0.18
T. Ambra	21	Max WS	SA_20_cr	213.07	143.42	148.30		148.35	0.000206	1.02	209.21	56.78	0.17
T. Ambra	20	Max WS	SA_200_cr	372.18	143.72	149.29		149.42	0.000473	1.63	250.87	116.96	0.26

HEC-RAS River: Ambra1 Reach: T. Ambra Profile: Max WS (Continued)

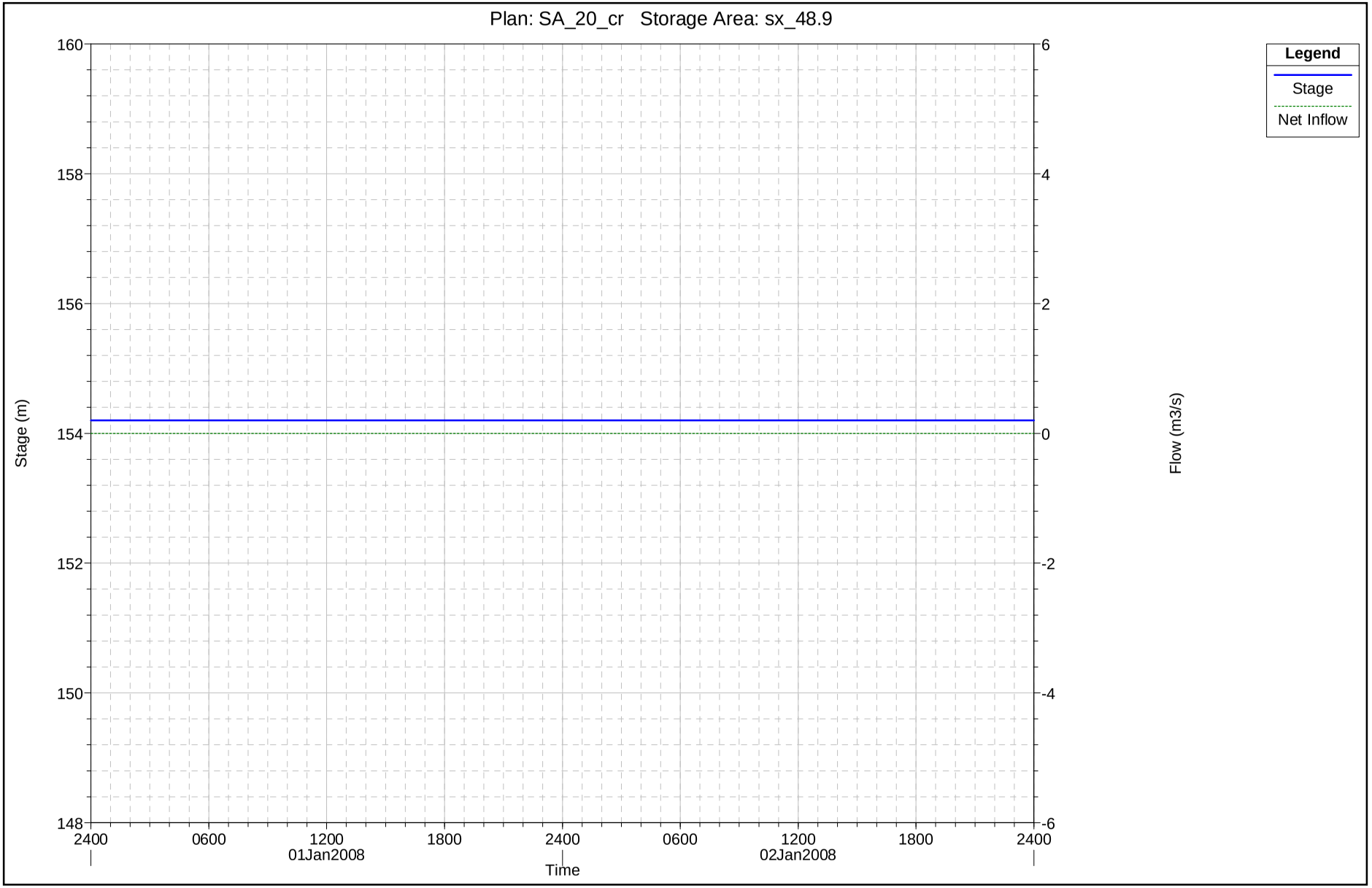
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	20	Max WS	SA_100_cr	334.01	143.72	148.94		149.08	0.000544	1.64	211.59	100.71	0.28
T. Ambra	20	Max WS	SA_30_cr	243.86	143.72	148.43		148.53	0.000481	1.41	172.66	57.20	0.26
T. Ambra	20	Max WS	SA_20_cr	212.63	143.72	148.26		148.35	0.000424	1.30	163.27	54.28	0.24
T. Ambra	19	Max WS	SA_200_cr	382.39	143.68	149.29		149.39	0.000408	1.56	299.02	120.10	0.24
T. Ambra	19	Max WS	SA_100_cr	334.63	143.68	148.95		149.05	0.000452	1.56	258.14	119.84	0.25
T. Ambra	19	Max WS	SA_30_cr	243.71	143.68	148.42		148.50	0.000418	1.36	210.03	86.01	0.24
T. Ambra	19	Max WS	SA_20_cr	212.48	143.68	148.25		148.32	0.000394	1.27	195.24	85.13	0.23
T. Ambra	18	Max WS	SA_200_cr	385.30	142.48	148.89		149.35	0.001937	3.03	127.22	34.76	0.51
T. Ambra	18	Max WS	SA_100_cr	324.46	142.48	148.63		149.01	0.001564	2.74	118.63	32.10	0.45
T. Ambra	18	Max WS	SA_30_cr	240.72	142.48	148.20		148.47	0.001211	2.29	105.22	30.80	0.40
T. Ambra	18	Max WS	SA_20_cr	208.28	142.48	148.07		148.29	0.001014	2.06	101.17	30.39	0.36
T. Ambra	17	Max WS	SA_200_cr	390.91	144.05	149.03		149.28	0.000952	2.22	175.94	47.00	0.37
T. Ambra	17	Max WS	SA_100_cr	332.02	144.05	148.74		148.96	0.000826	2.04	162.61	44.58	0.34
T. Ambra	17	Max WS	SA_30_cr	241.79	144.05	148.27		148.42	0.000666	1.71	141.77	43.82	0.30
T. Ambra	17	Max WS	SA_20_cr	209.38	144.05	148.12		148.24	0.000577	1.55	135.26	43.58	0.28
T. Ambra	16	Max WS	SA_200_cr	395.60	144.05	149.15		149.27	0.000631	1.75	321.13	234.63	0.30
T. Ambra	16	Max WS	SA_100_cr	332.22	144.05	148.80		148.96	0.000783	1.83	241.90	222.40	0.33
T. Ambra	16	Max WS	SA_30_cr	241.73	144.05	148.25		148.42	0.000960	1.83	132.15	48.87	0.36
T. Ambra	16	Max WS	SA_20_cr	208.80	144.05	148.10		148.24	0.000836	1.67	125.03	47.80	0.33
T. Ambra	15	Max WS	SA_200_cr	395.59	141.39	149.18		149.26	0.000220	1.34	409.03	234.68	0.18
T. Ambra	15	Max WS	SA_100_cr	332.70	141.39	148.86		148.93	0.000218	1.29	333.91	225.59	0.18
T. Ambra	15	Max WS	SA_30_cr	242.85	141.39	148.34		148.41	0.000184	1.11	237.16	140.21	0.16
T. Ambra	15	Max WS	SA_20_cr	211.30	141.39	148.18		148.24	0.000158	1.01	217.17	109.14	0.15
T. Ambra	14	Max WS	SA_200_cr	388.13	143.59	148.93		149.26	0.001637	2.54	152.56	49.71	0.46
T. Ambra	14	Max WS	SA_100_cr	324.28	143.59	148.64		148.92	0.001511	2.34	138.29	47.95	0.44
T. Ambra	14	Max WS	SA_30_cr	239.52	143.59	148.16		148.38	0.001437	2.07	115.64	46.75	0.42
T. Ambra	14	Max WS	SA_20_cr	207.67	143.59	148.03		148.21	0.001286	1.90	109.27	46.30	0.39
T. Ambra	13	Max WS	SA_200_cr	472.57	144.24	147.92		148.44	0.003868	3.22	146.72	66.67	0.69
T. Ambra	13	Max WS	SA_100_cr	395.39	144.24	147.66		148.13	0.003924	3.04	129.99	65.10	0.69
T. Ambra	13	Max WS	SA_30_cr	281.83	144.24	147.23		147.62	0.004124	2.74	102.75	62.46	0.68
T. Ambra	13	Max WS	SA_20_cr	249.17	144.24	147.08		147.45	0.004343	2.67	93.38	61.53	0.69

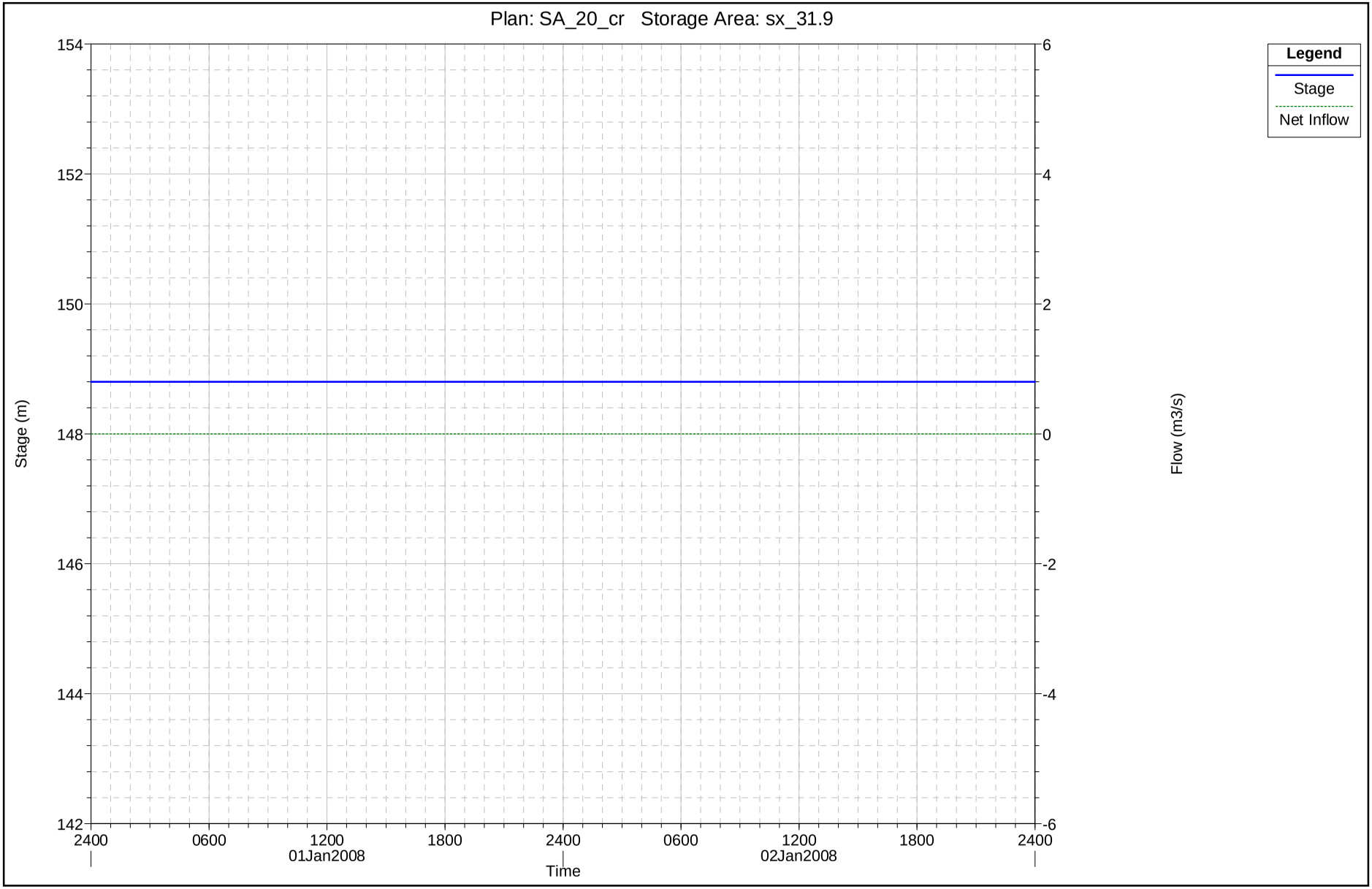
HEC-RAS River: Ambra1 Reach: T. Ambra Profile: Max WS (Continued)

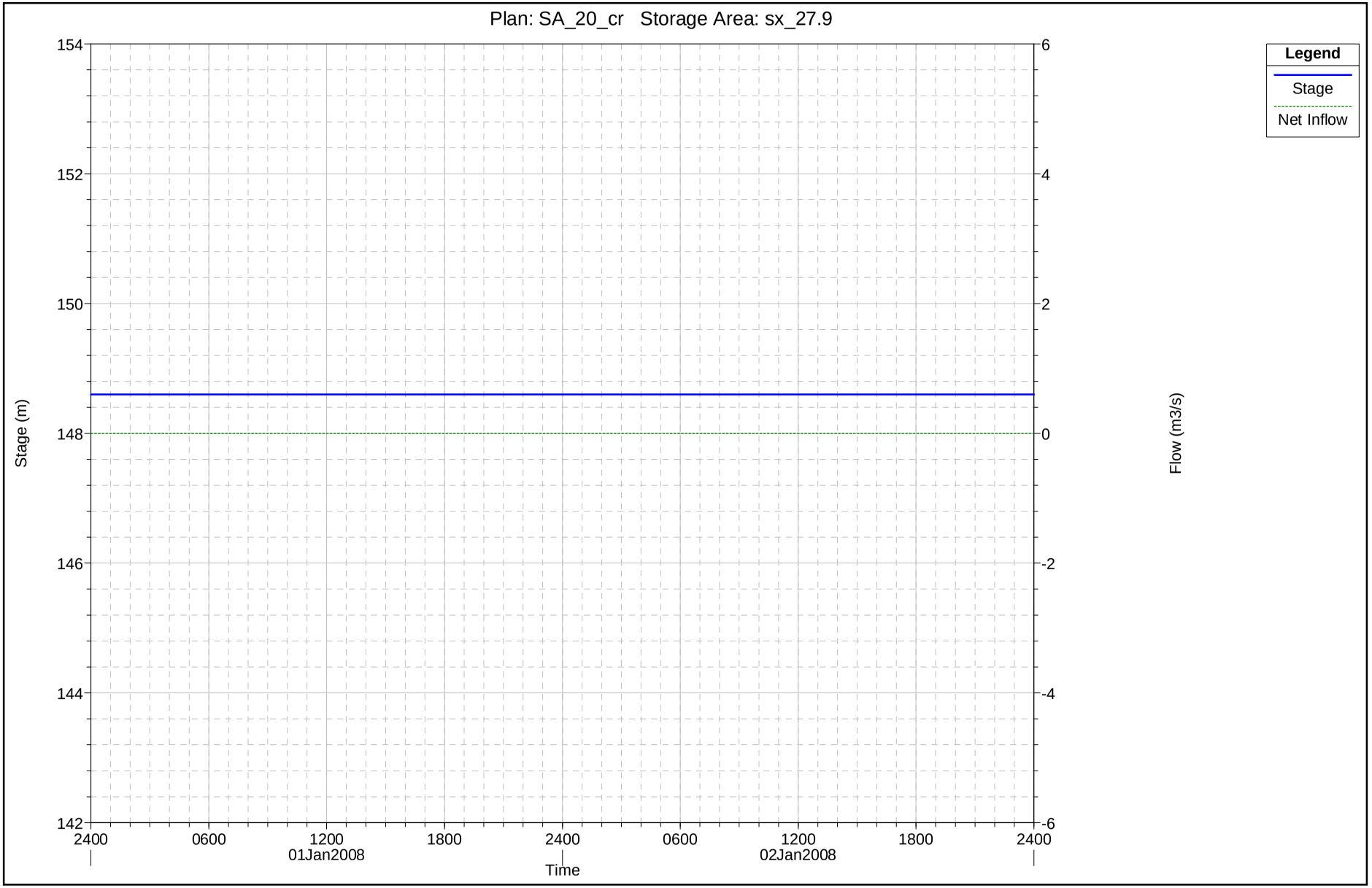
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	12	Max WS	SA_200_cr	472.49	143.35	146.83		147.37	0.003627	3.25	145.44	62.59	0.68
T. Ambra	12	Max WS	SA_100_cr	395.36	143.35	146.57		147.05	0.003635	3.05	129.54	61.39	0.67
T. Ambra	12	Max WS	SA_30_cr	281.80	143.35	146.21		146.56	0.003312	2.62	107.41	59.68	0.62
T. Ambra	12	Max WS	SA_20_cr	249.15	143.35	146.11		146.41	0.002794	2.45	101.61	54.94	0.58
T. Ambra	11	Max WS	SA_200_cr	472.47	142.47	146.24		146.49	0.001643	2.19	215.55	92.16	0.46
T. Ambra	11	Max WS	SA_100_cr	395.32	142.47	145.88		146.12	0.001958	2.16	182.60	90.90	0.49
T. Ambra	11	Max WS	SA_30_cr	281.78	142.47	145.31		145.54	0.002920	2.15	130.93	89.00	0.57
T. Ambra	11	Max WS	SA_20_cr	249.15	142.47	145.13		145.37	0.003455	2.16	115.27	88.42	0.60
T. Ambra	10	Max WS	SA_200_cr	472.44	140.59	145.51		146.01	0.002502	3.14	150.27	50.46	0.58
T. Ambra	10	Max WS	SA_100_cr	395.31	140.59	145.14		145.60	0.002606	3.00	131.79	49.09	0.58
T. Ambra	10	Max WS	SA_30_cr	281.03	140.59	144.56		144.93	0.002383	2.67	105.19	43.61	0.55
T. Ambra	10	Max WS	SA_20_cr	248.77	140.59	144.32		144.67	0.002536	2.62	94.90	42.46	0.56
T. Ambra	9	Max WS	SA_200_cr	472.43	140.18	144.85		145.41	0.002542	3.30	143.10	44.40	0.59
T. Ambra	9	Max WS	SA_100_cr	395.31	140.18	144.48		144.98	0.002571	3.12	126.77	43.40	0.58
T. Ambra	9	Max WS	SA_30_cr	278.60	140.18	144.05		144.39	0.002054	2.57	108.50	42.20	0.51
T. Ambra	9	Max WS	SA_20_cr	246.10	140.18	143.77		144.10	0.002146	2.54	97.02	39.73	0.52
T. Ambra	8	Max WS	SA_200_cr	472.41	140.20	144.11		145.10	0.005203	4.42	106.80	35.48	0.81
T. Ambra	8	Max WS	SA_100_cr	395.29	140.20	143.78		144.66	0.005205	4.15	95.21	35.18	0.81
T. Ambra	8	Max WS	SA_30_cr	268.73	140.20	143.71		144.14	0.002593	2.89	92.95	35.12	0.57
T. Ambra	8	Max WS	SA_20_cr	223.32	140.20	143.43		143.80	0.002561	2.69	82.90	34.86	0.56
T. Ambra	7	Max WS	SA_200_cr	221.44	140.00	143.39	142.04	143.59	0.001153	1.96	112.87	43.15	0.39
T. Ambra	7	Max WS	SA_100_cr	196.99	140.00	142.94	141.91	143.16	0.001613	2.10	93.75	41.80	0.45
T. Ambra	7	Max WS	SA_30_cr	144.91	140.00	142.22	141.62	142.48	0.002741	2.25	64.52	39.04	0.56
T. Ambra	7	Max WS	SA_20_cr	134.60	140.00	142.22	141.56	142.44	0.002365	2.09	64.52	39.04	0.52

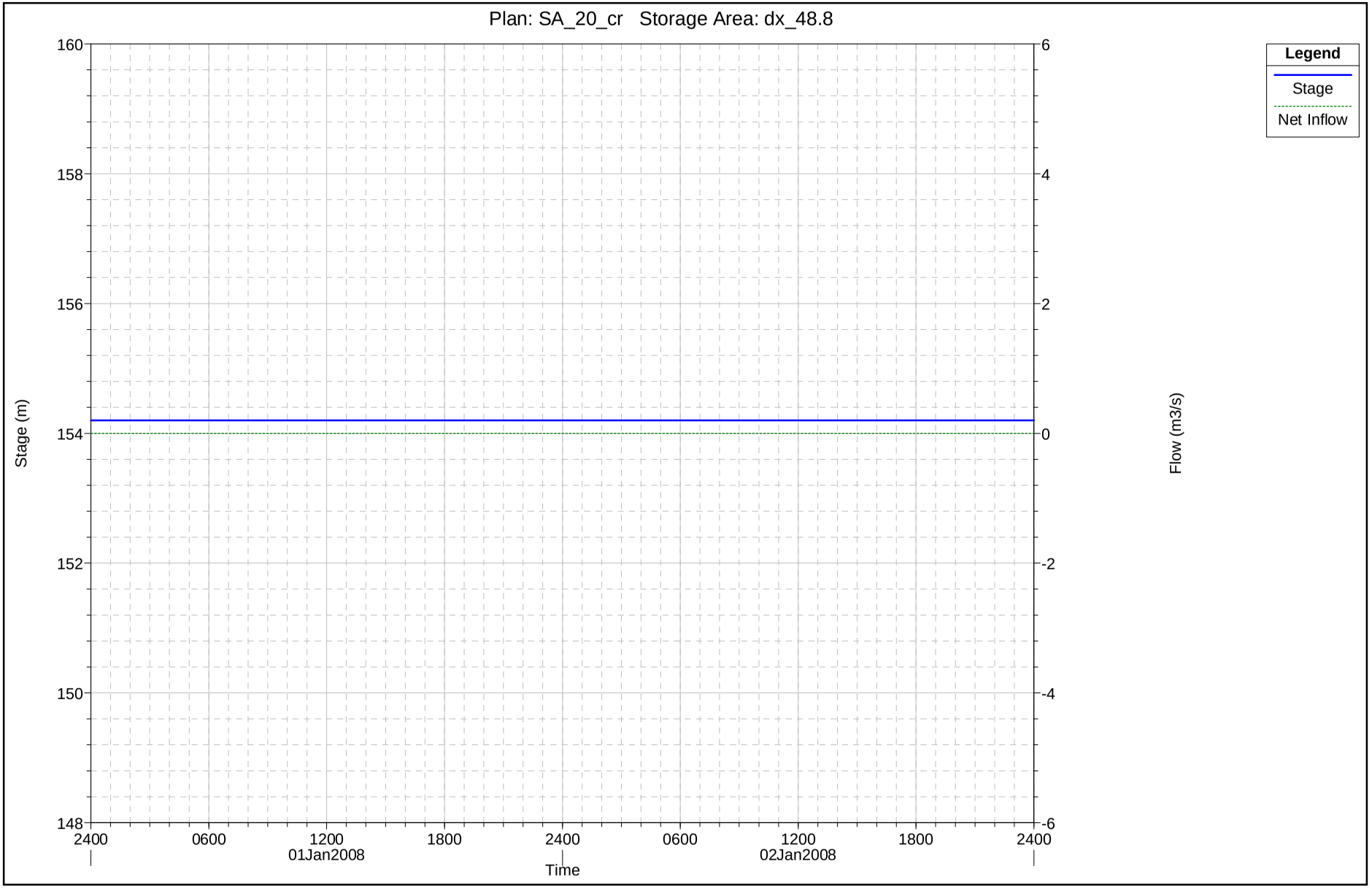
HEC-RAS Profile: Max WS

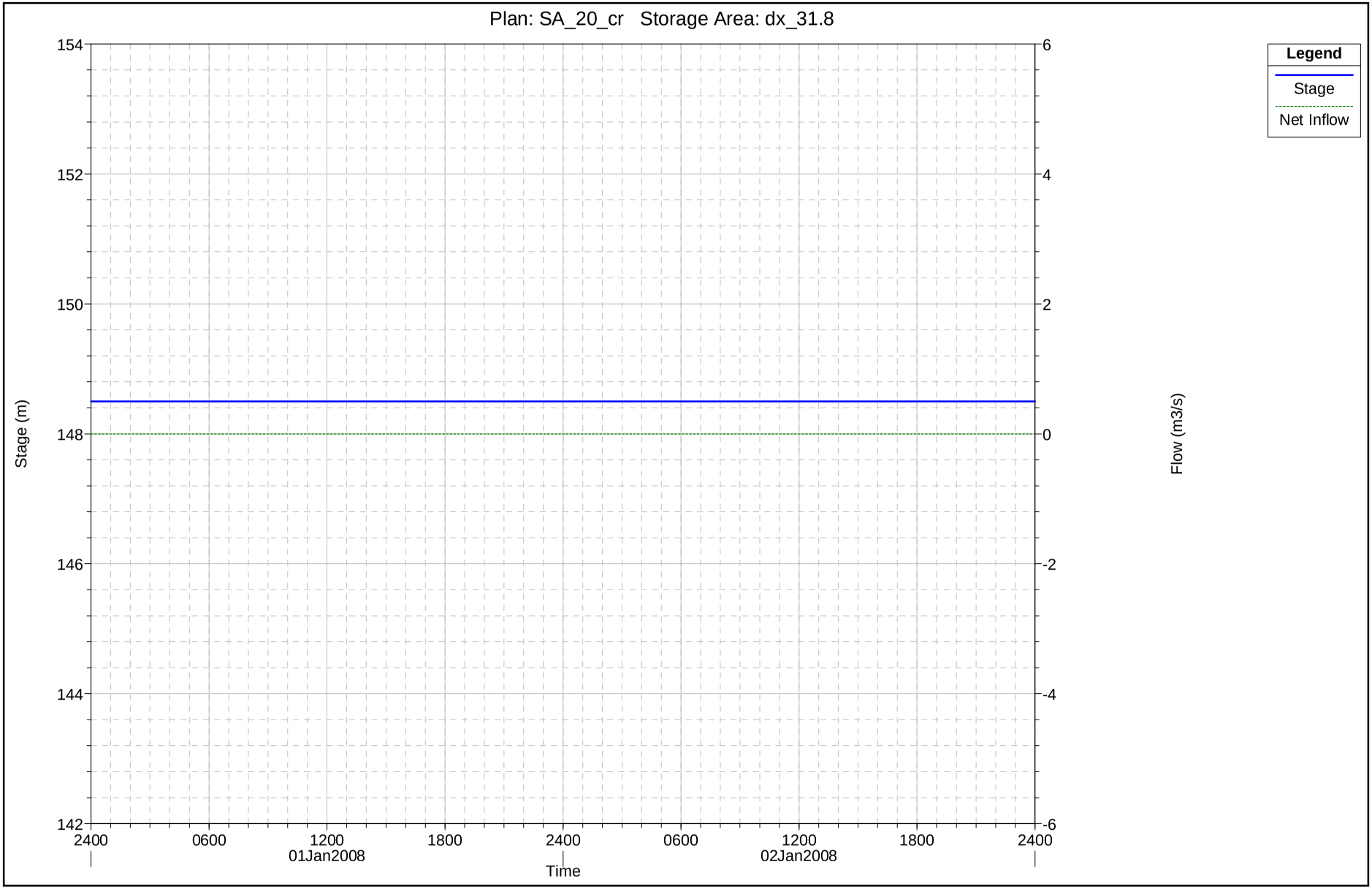
Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
dx_28.8	Max WS	SA_200_cr	149.35	148.50	0.10	20.00	14.04
dx_28.8	Max WS	SA_100_cr	149.09	148.50	0.01	16.25	9.54
dx_28.8	Max WS	SA_30_cr	148.50	148.50	0.00	16.25	0.00
dx_28.8	Max WS	SA_20_cr	148.50	148.50	0.00	16.25	0.00
dx_31.8	Max WS	SA_200_cr	148.66	148.50	1.13	36.00	5.63
dx_31.8	Max WS	SA_100_cr	148.50	148.50	0.00	36.00	0.00
dx_31.8	Max WS	SA_30_cr	148.50	148.50	0.00	36.00	0.00
dx_31.8	Max WS	SA_20_cr	148.50	148.50	0.00	36.00	0.00
dx_48.8	Max WS	SA_200_cr	154.59	154.20	0.01	12.49	4.88
dx_48.8	Max WS	SA_100_cr	154.20	154.20	0.00	12.49	0.00
dx_48.8	Max WS	SA_30_cr	154.20	154.20	0.00	12.49	0.00
dx_48.8	Max WS	SA_20_cr	154.20	154.20	0.00	12.49	0.00
sx_27.9	Max WS	SA_200_cr	149.29	148.60	0.67	36.99	18.19
sx_27.9	Max WS	SA_100_cr	148.60	148.60	0.00	19.00	0.00
sx_27.9	Max WS	SA_30_cr	148.60	148.60	0.00	19.00	0.00
sx_27.9	Max WS	SA_20_cr	148.60	148.60	0.00	19.00	0.00
sx_31.9	Max WS	SA_200_cr	148.98	148.80	0.56	16.25	2.89
sx_31.9	Max WS	SA_100_cr	148.80	148.80	0.00	16.25	0.00
sx_31.9	Max WS	SA_30_cr	148.80	148.80	0.00	16.25	0.00
sx_31.9	Max WS	SA_20_cr	148.80	148.80	0.00	16.25	0.00
sx_48.9	Max WS	SA_200_cr	154.60	154.20	0.00	2.18	0.88
sx_48.9	Max WS	SA_100_cr	154.20	154.20	0.00	2.18	0.00
sx_48.9	Max WS	SA_30_cr	154.20	154.20	0.00	2.18	0.00
sx_48.9	Max WS	SA_20_cr	154.20	154.20	0.00	2.18	0.00

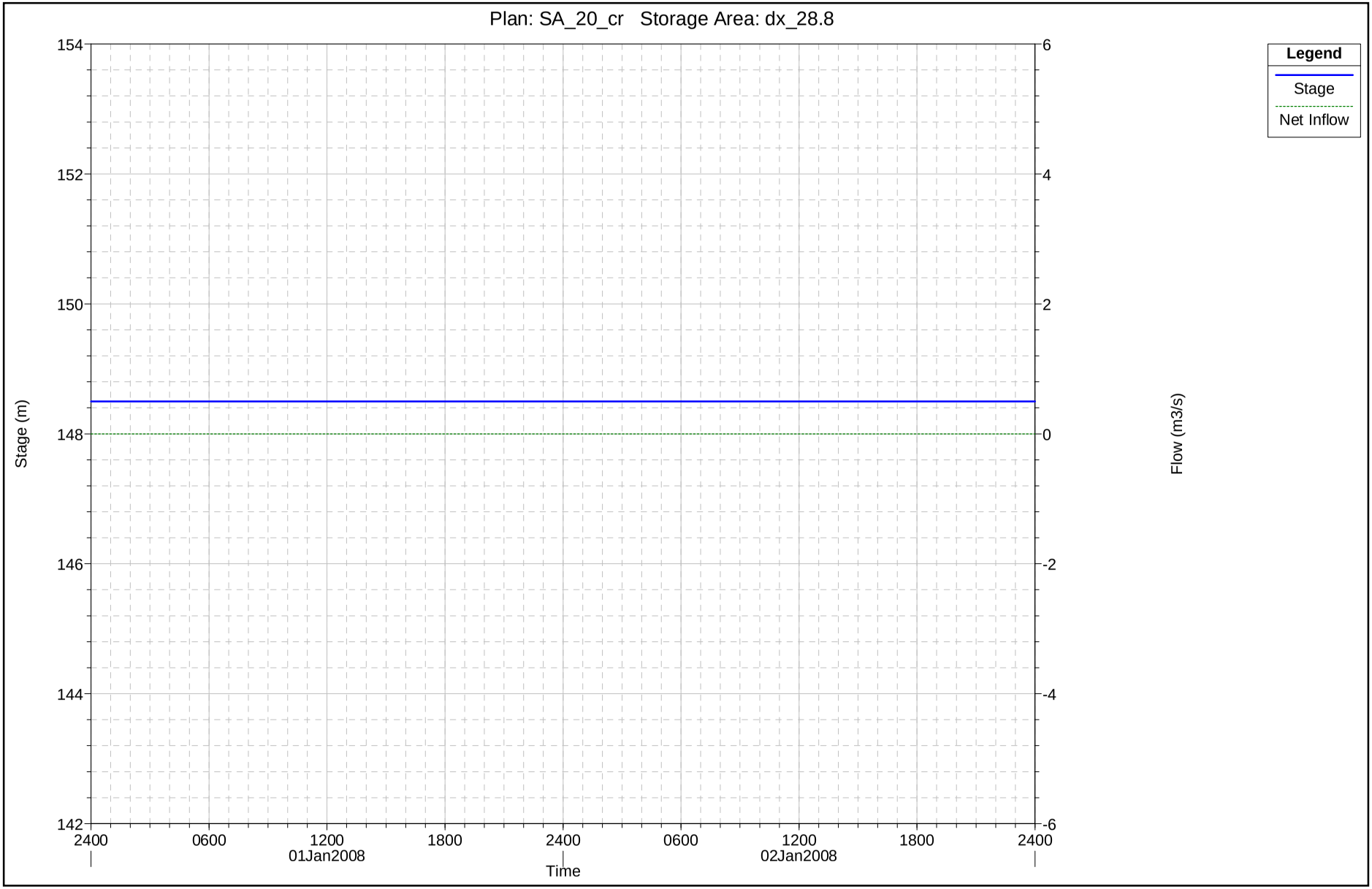

Plan: SA_20_cr Storage Area: sx_48.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
160
158
156
154
152
150
148
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

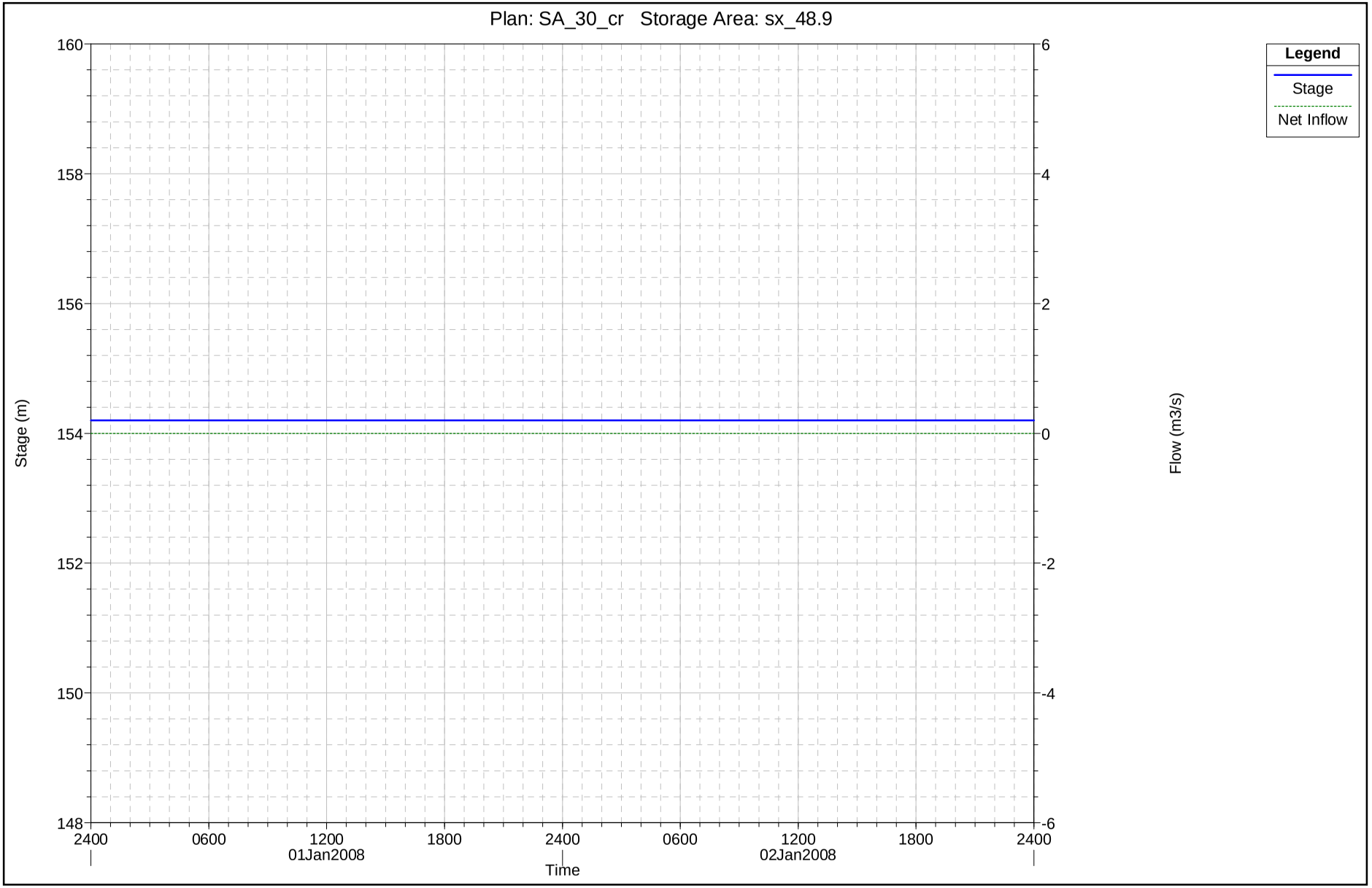

Plan: SA_20_cr Storage Area: sx_31.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

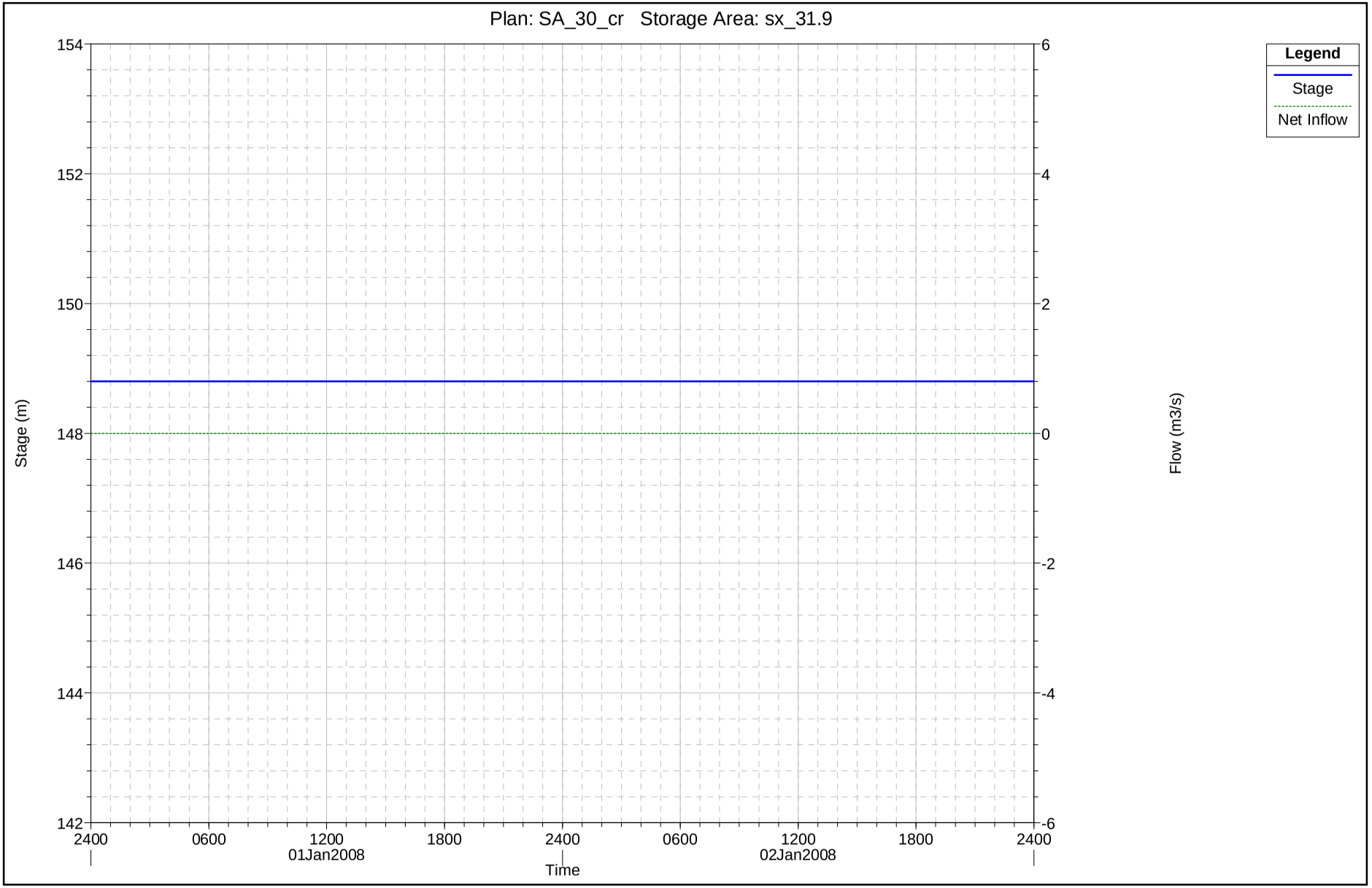

Plan: SA_20_cr Storage Area: sx_27.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

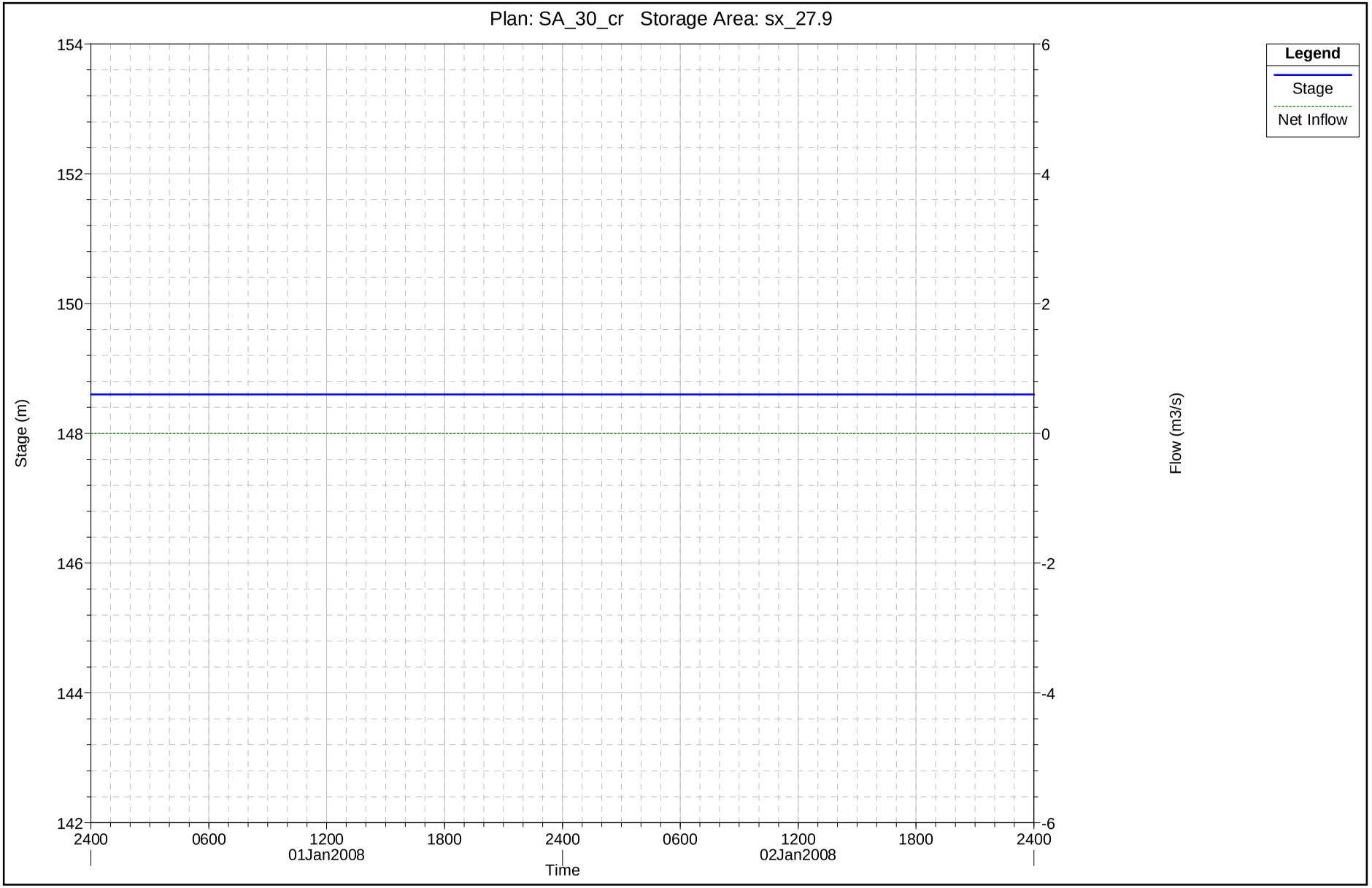

Plan: SA_20_cr Storage Area: dx_48.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
160
158
156
154
152
150
148
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

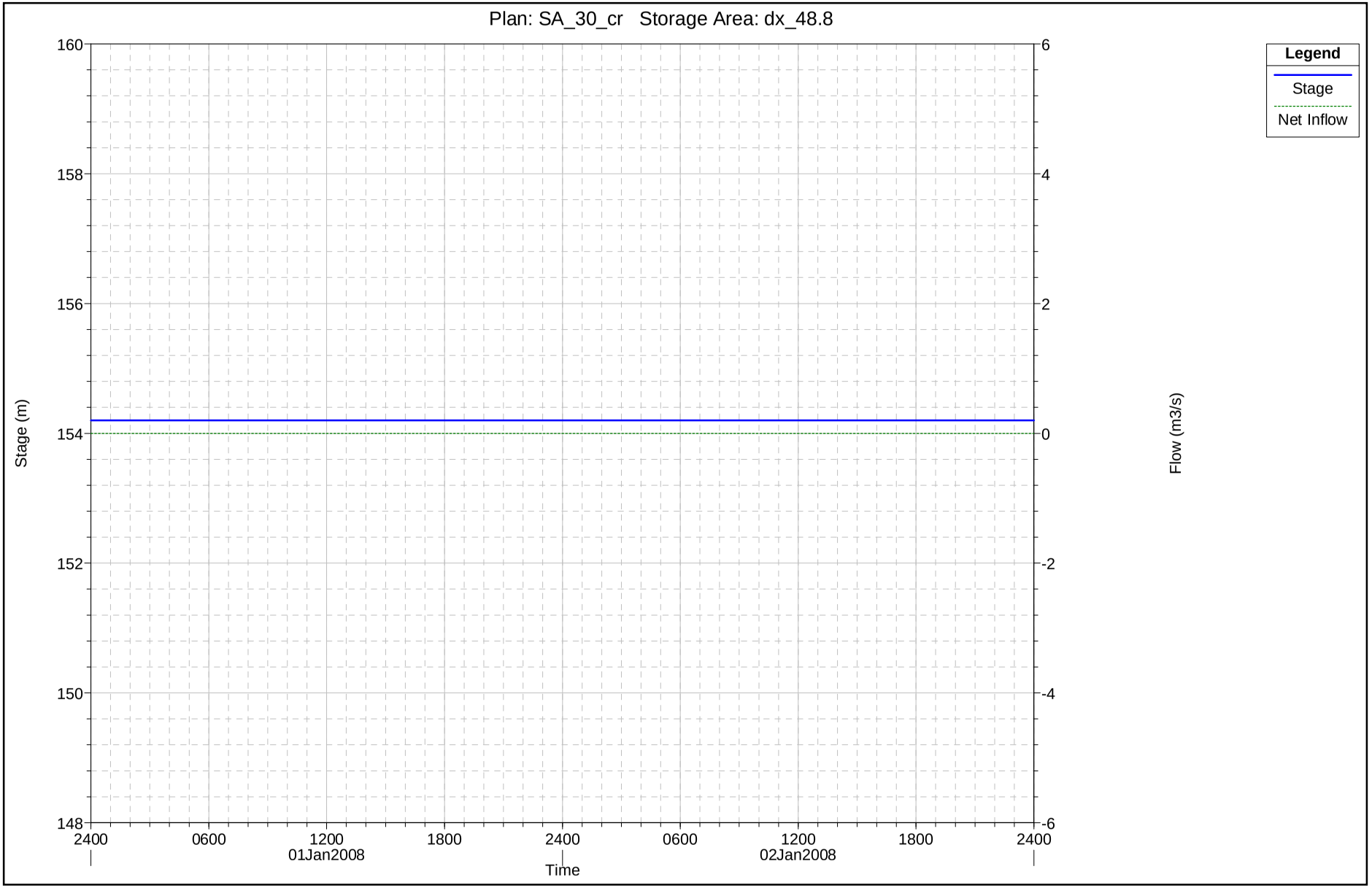

Plan: SA_20_cr Storage Area: dx_31.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

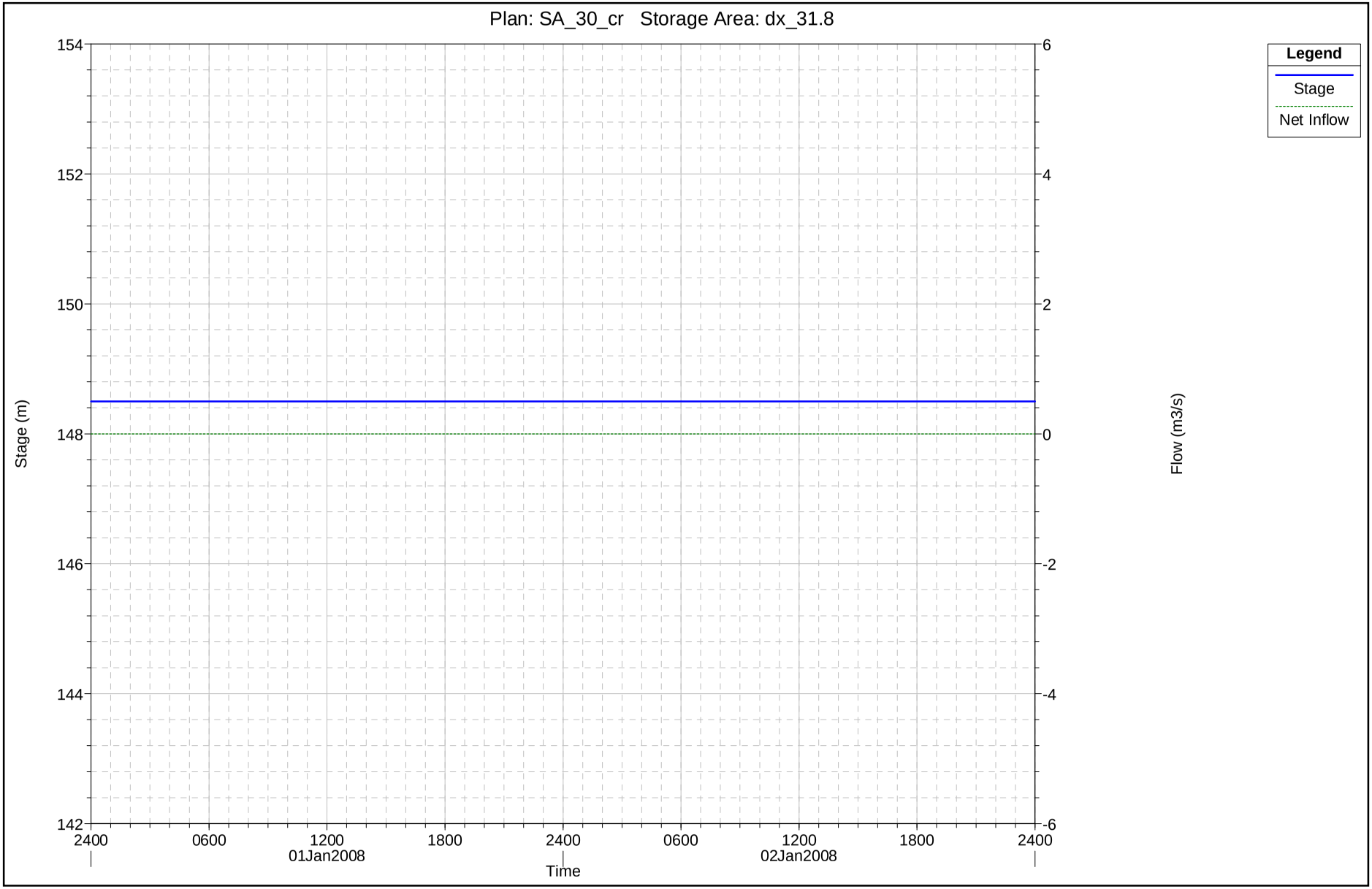

Plan: SA_20_cr Storage Area: dx_28.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

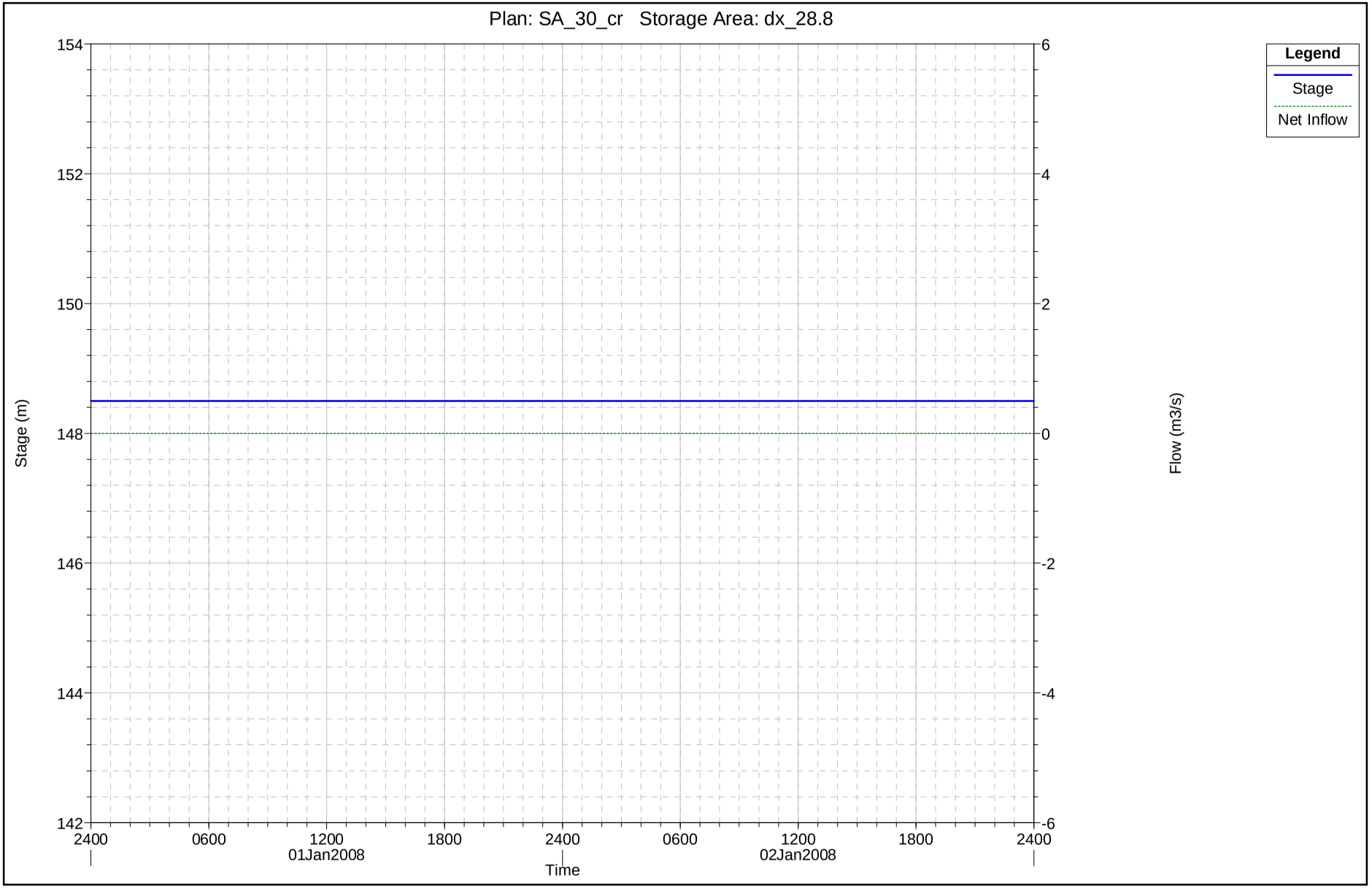

Plan: SA_30_cr Storage Area: sx_48.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
160
158
156
154
152
150
148
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

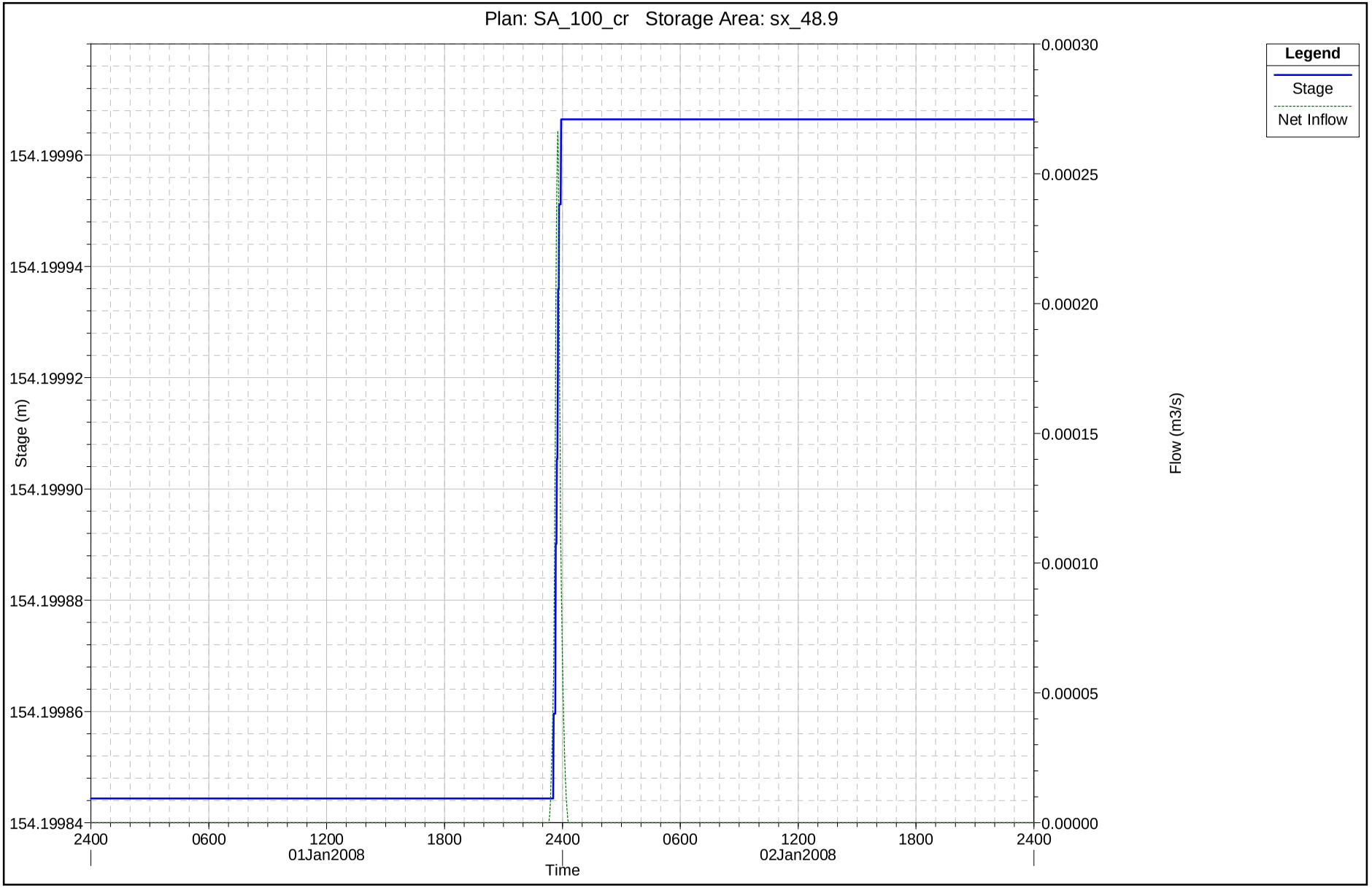

Plan: SA_30_cr Storage Area: sx_31.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

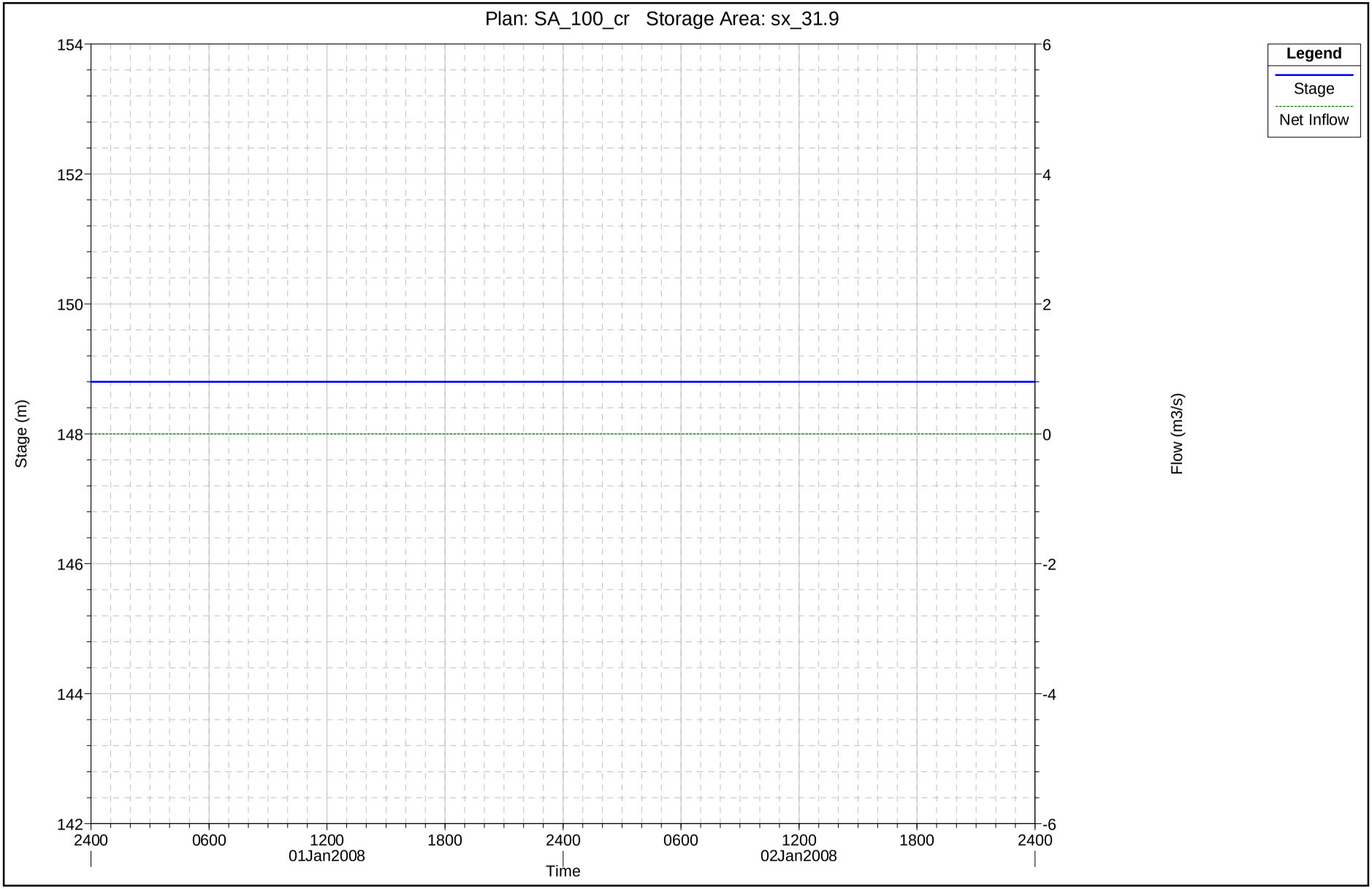

Plan: SA_30_cr Storage Area: sx_27.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

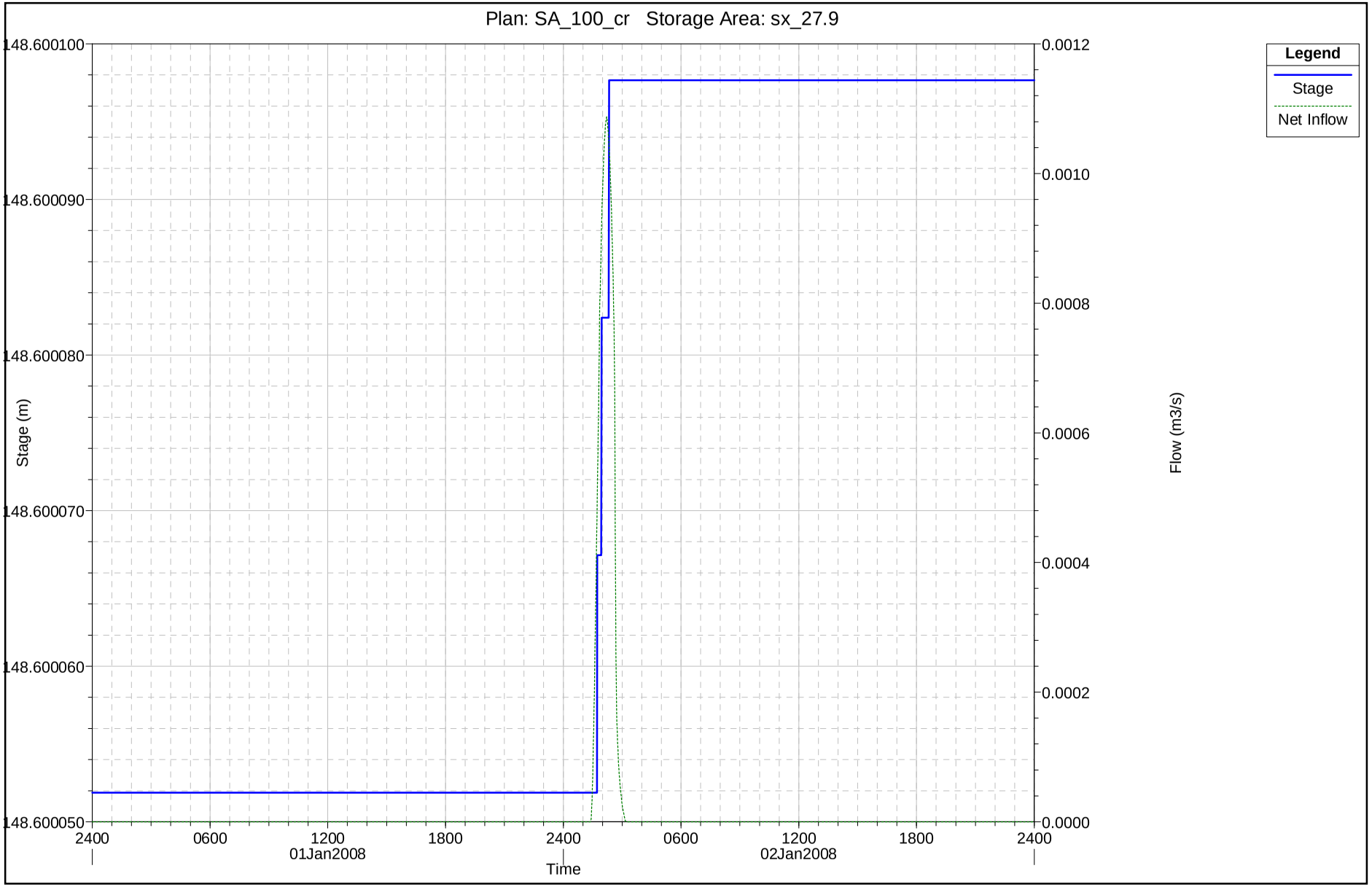

Plan: SA_30_cr Storage Area: dx_48.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
160
158
156
154
152
150
148
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

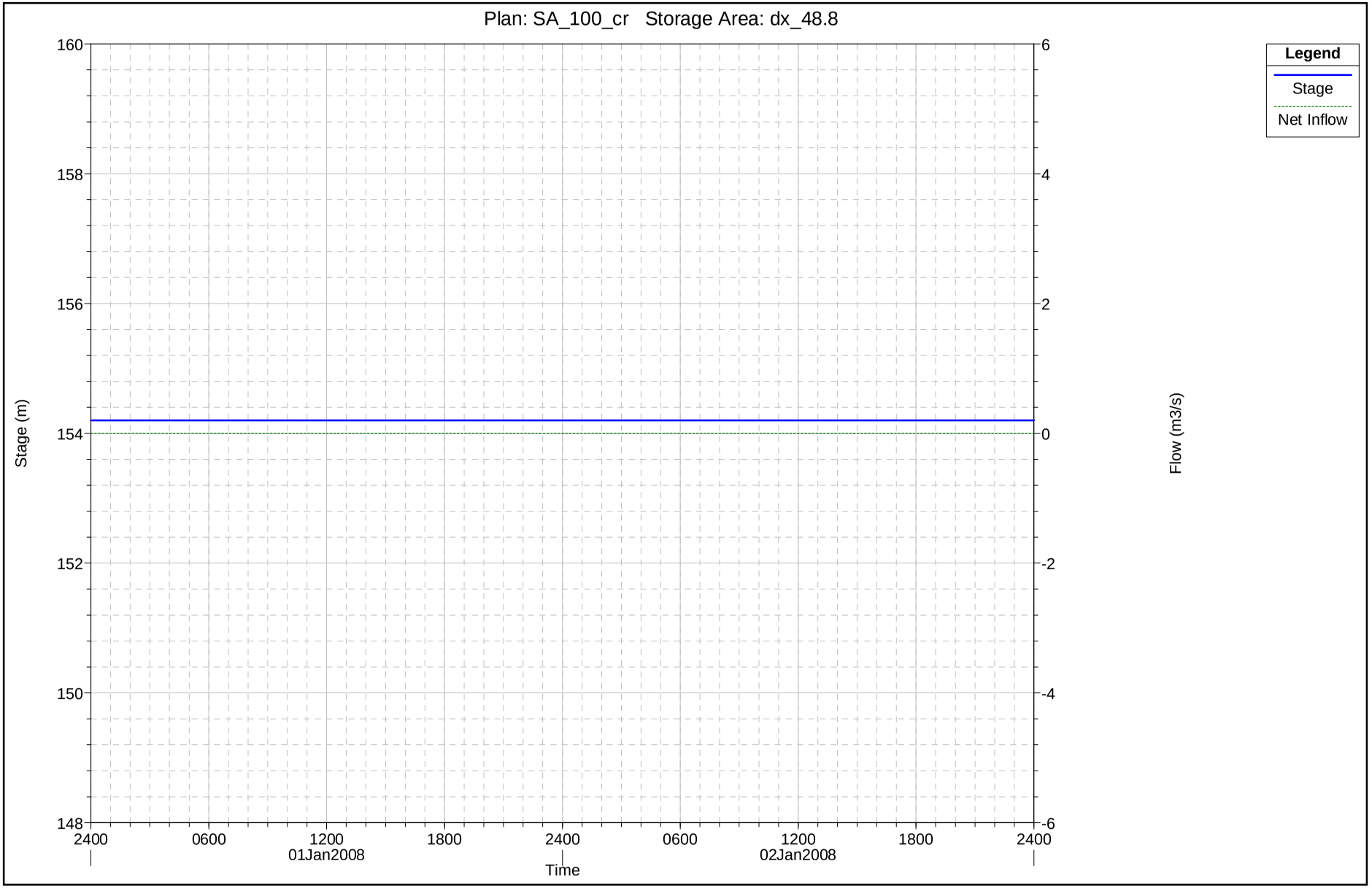

Plan: SA_30_cr Storage Area: dx_31.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

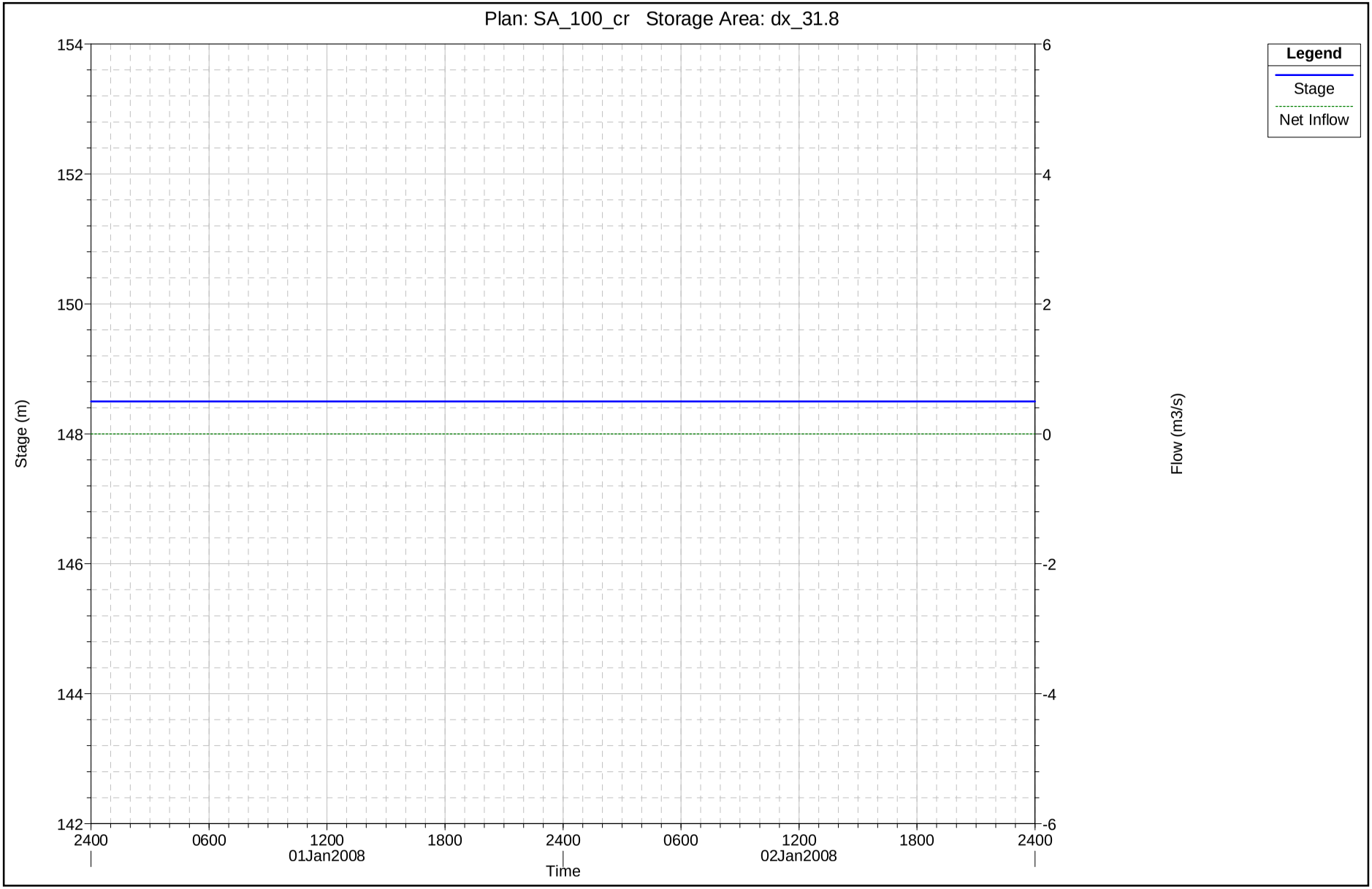

Plan: SA_30_cr Storage Area: dx_28.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

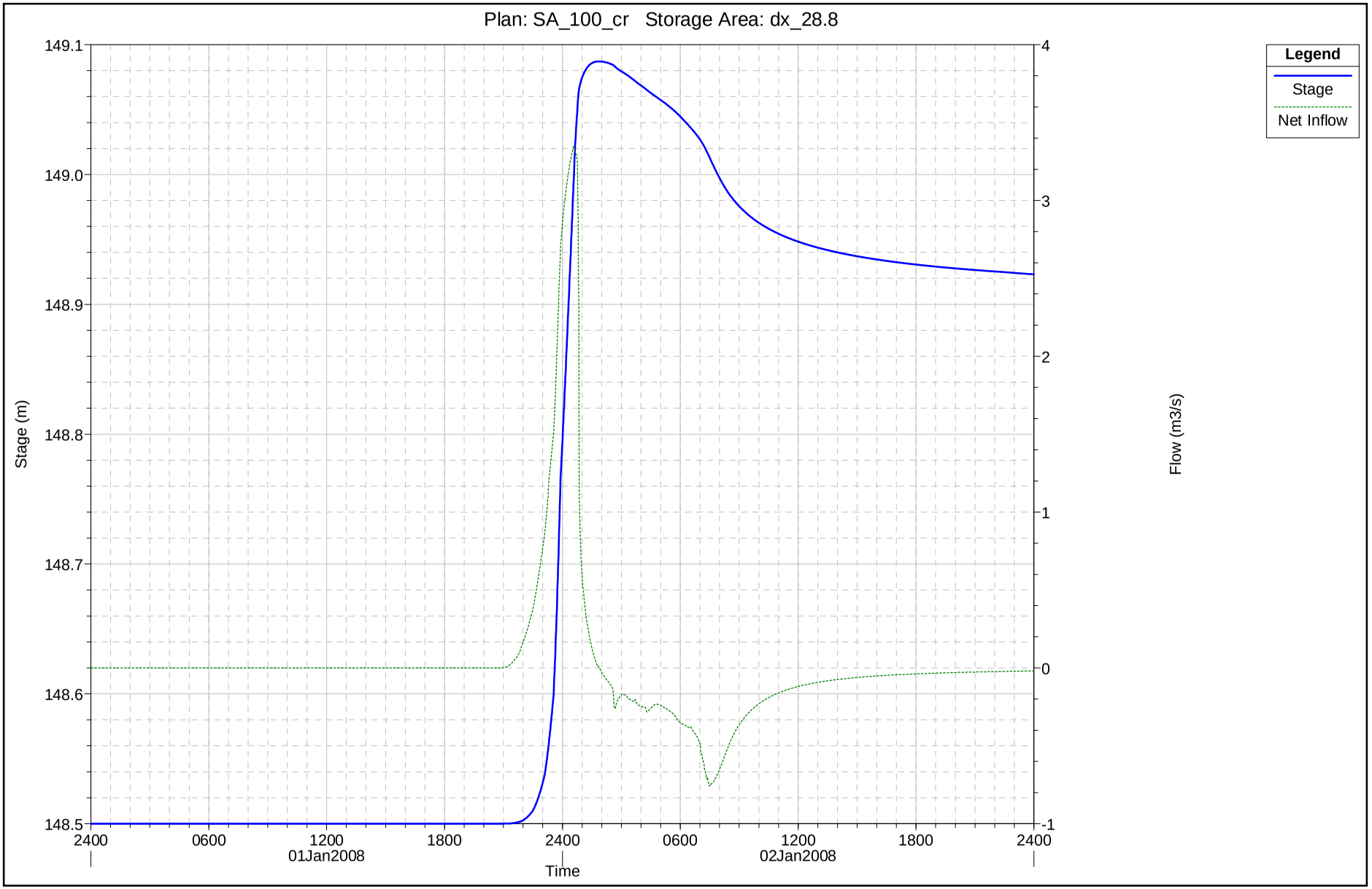

Plan: SA_100_cr Storage Area: sx_48.9
Legend
Stage
Net Inflow
Stage (m)
154.19996
154.19994
154.19992
154.19990
154.19988
154.19986
154.19984
Flow (m3/s)
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

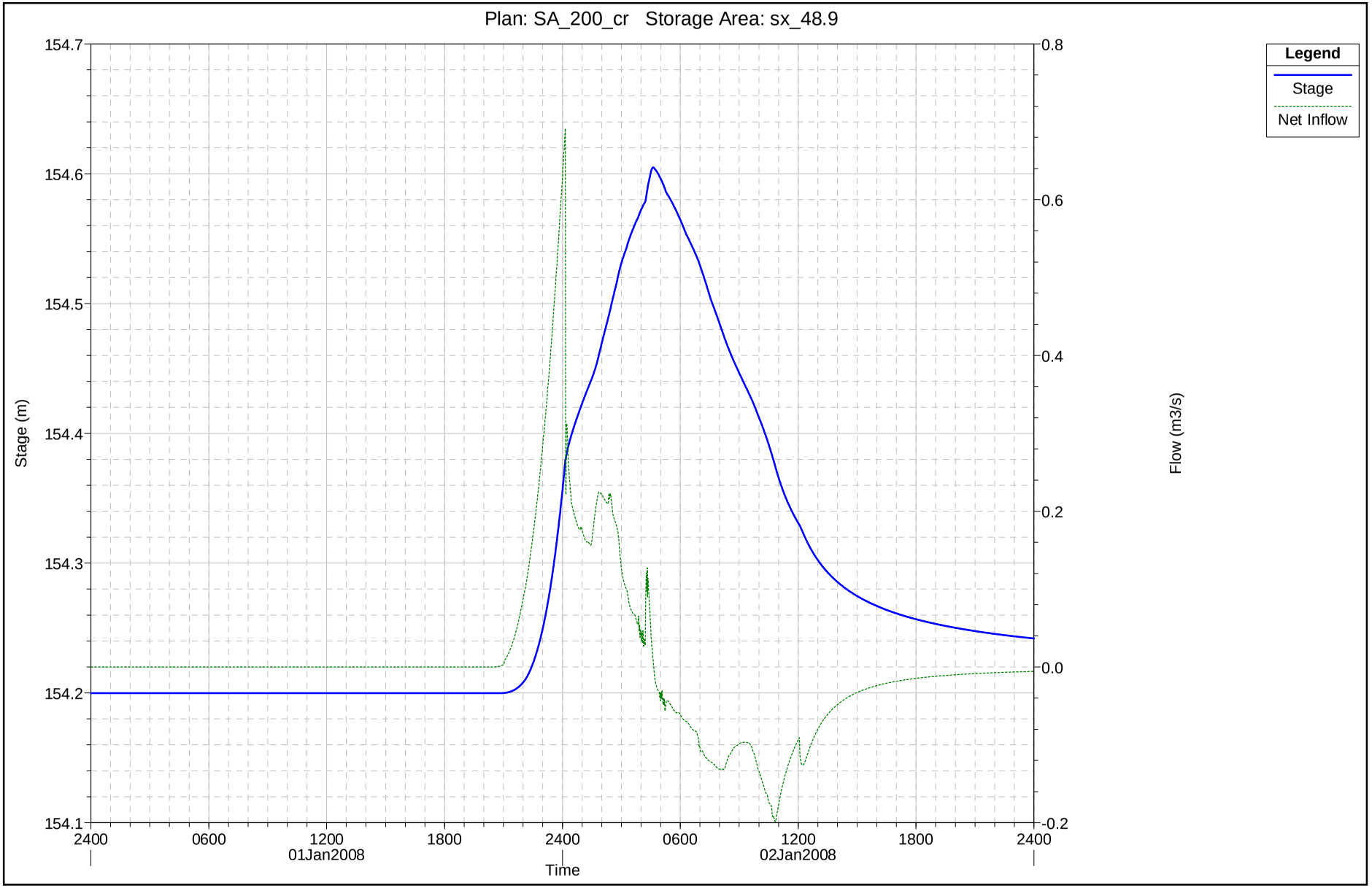

Plan: SA_100_cr Storage Area: sx_31.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

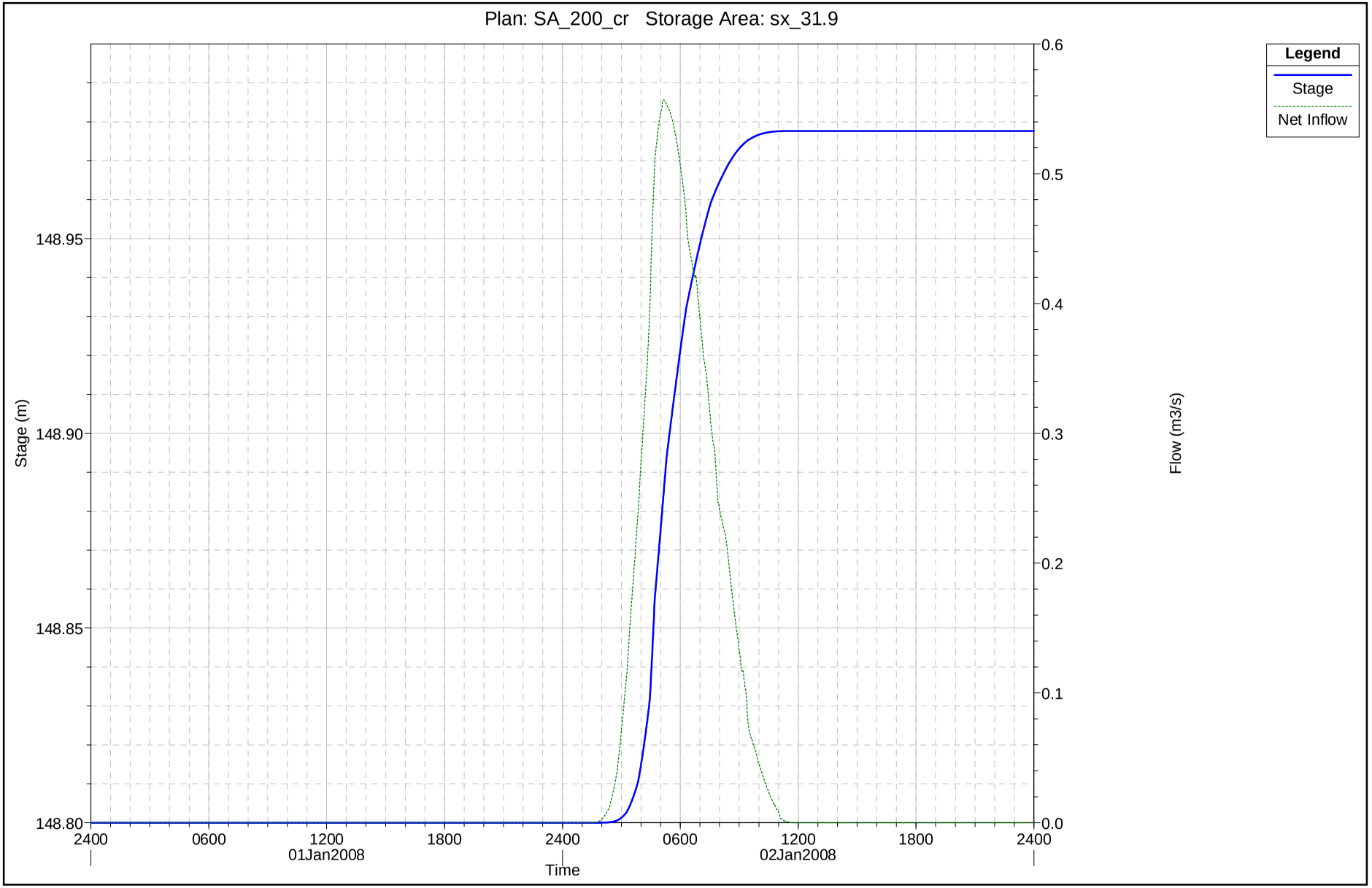

Plan: SA_100_cr Storage Area: sx_27.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148.600100
148.600090
148.600080
148.600070
148.600060
148.600050
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

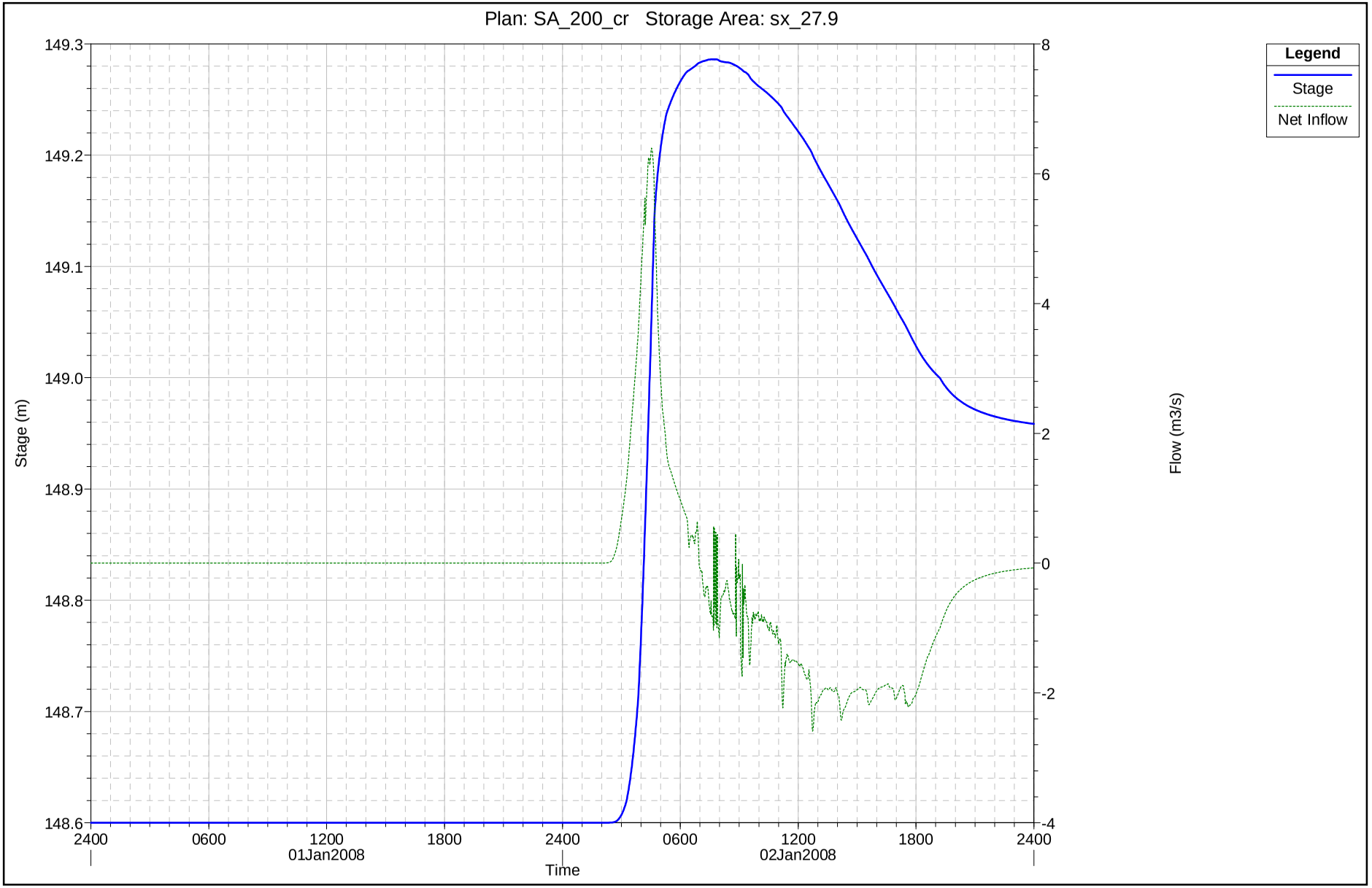

Plan: SA_100_cr Storage Area: dx_48.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
160
158
156
154
152
150
148
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

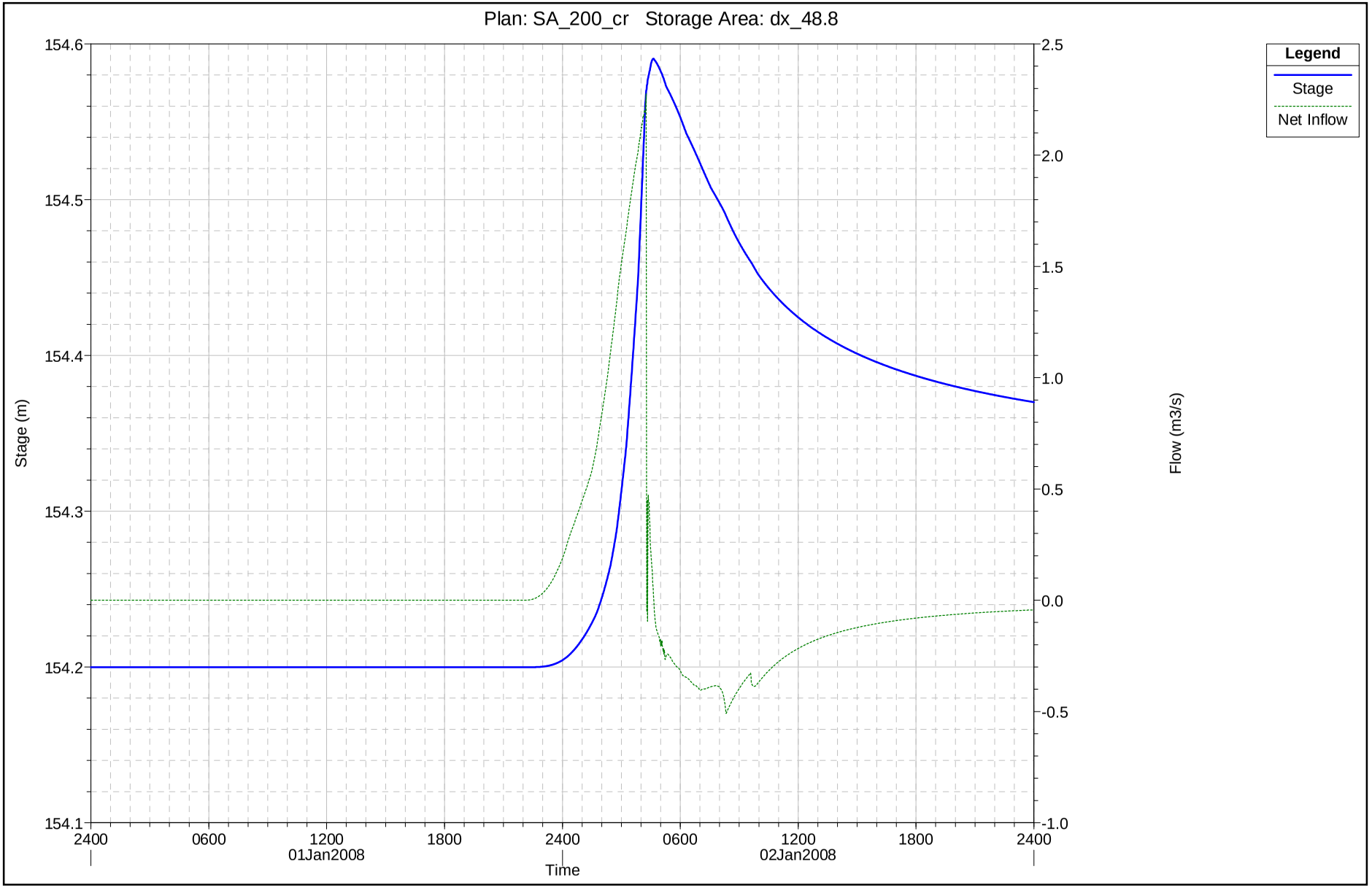

Plan: SA_100_cr Storage Area: dx_31.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154
152
150
148
146
144
142
6
4
2
0
-2
-4
-6
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

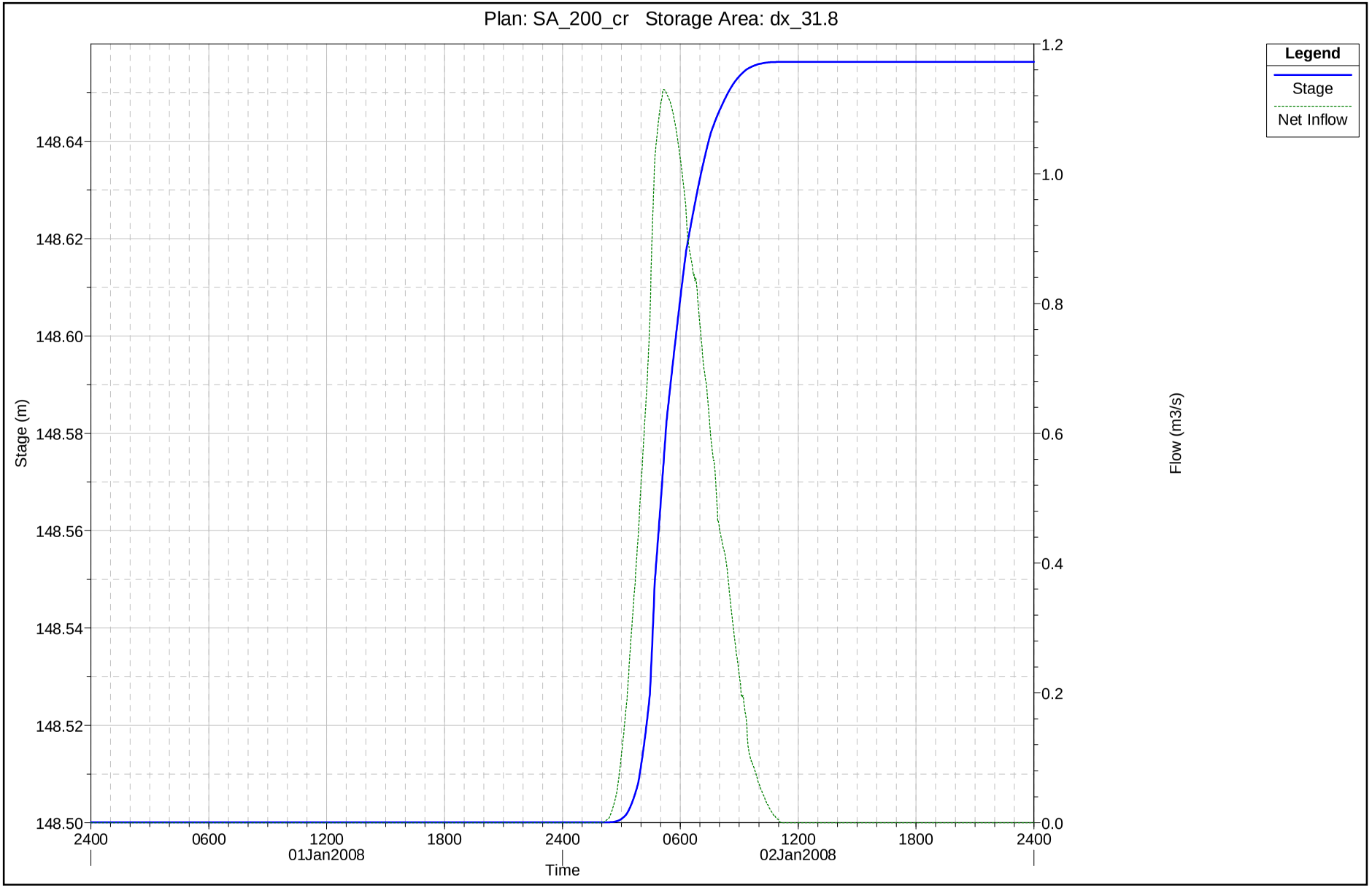

Plan: SA_100_cr Storage Area: dx_28.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
149.1
149.0
148.9
148.8
148.7
148.6
148.5
4
3
2
1
0
-1
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

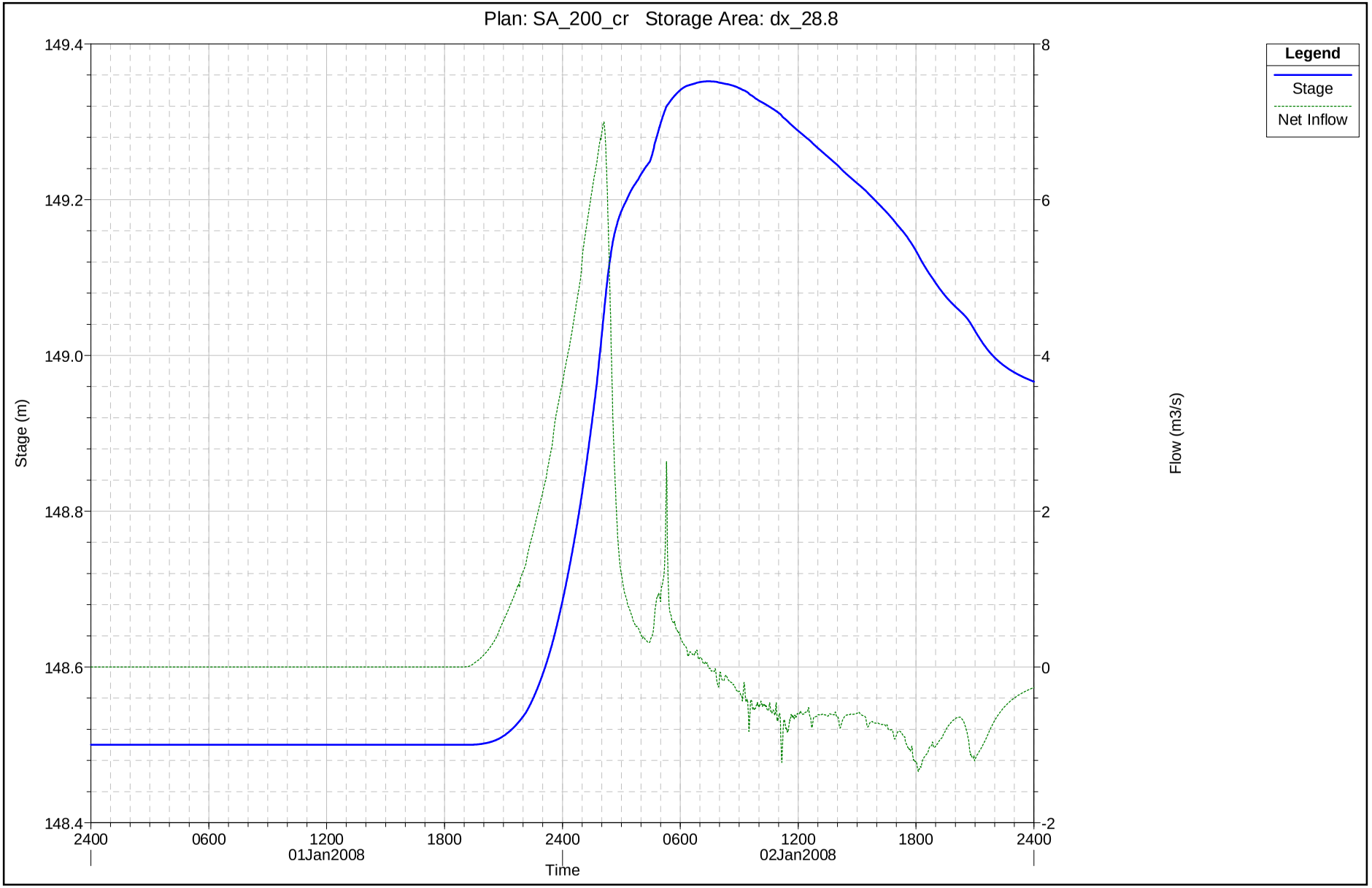

Plan: SA_200_cr Storage Area: sx_48.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154.7
154.6
154.5
154.4
154.3
154.2
154.1
0.8
0.6
0.4
0.2
0.0
-0.2
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

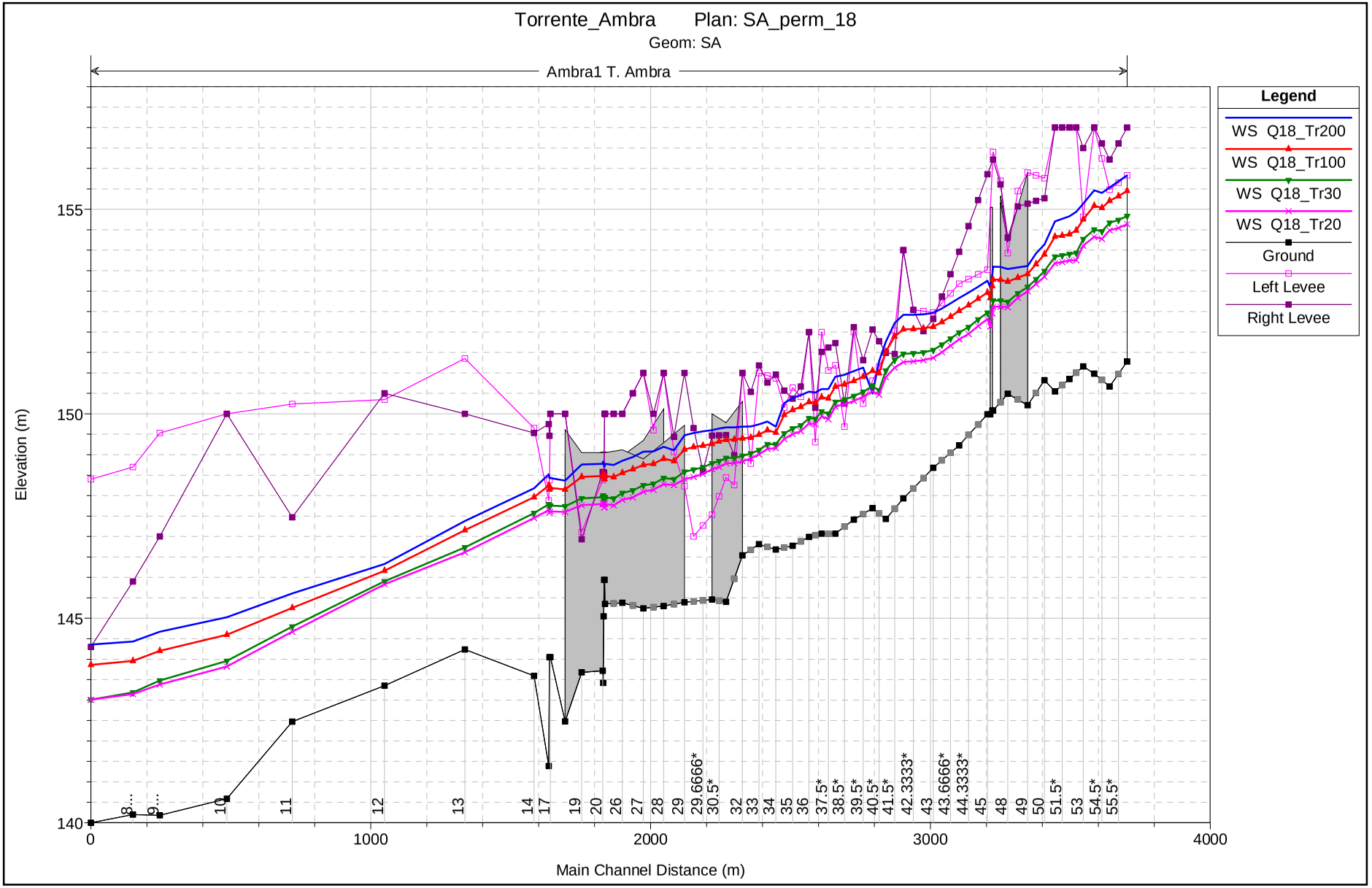

Plan: SA_200_cr Storage Area: sx_31.9
Legend
Stage
Net Inflow
Stage (m)
148.95
148.90
148.85
148.80
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Flow (m3/s)
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

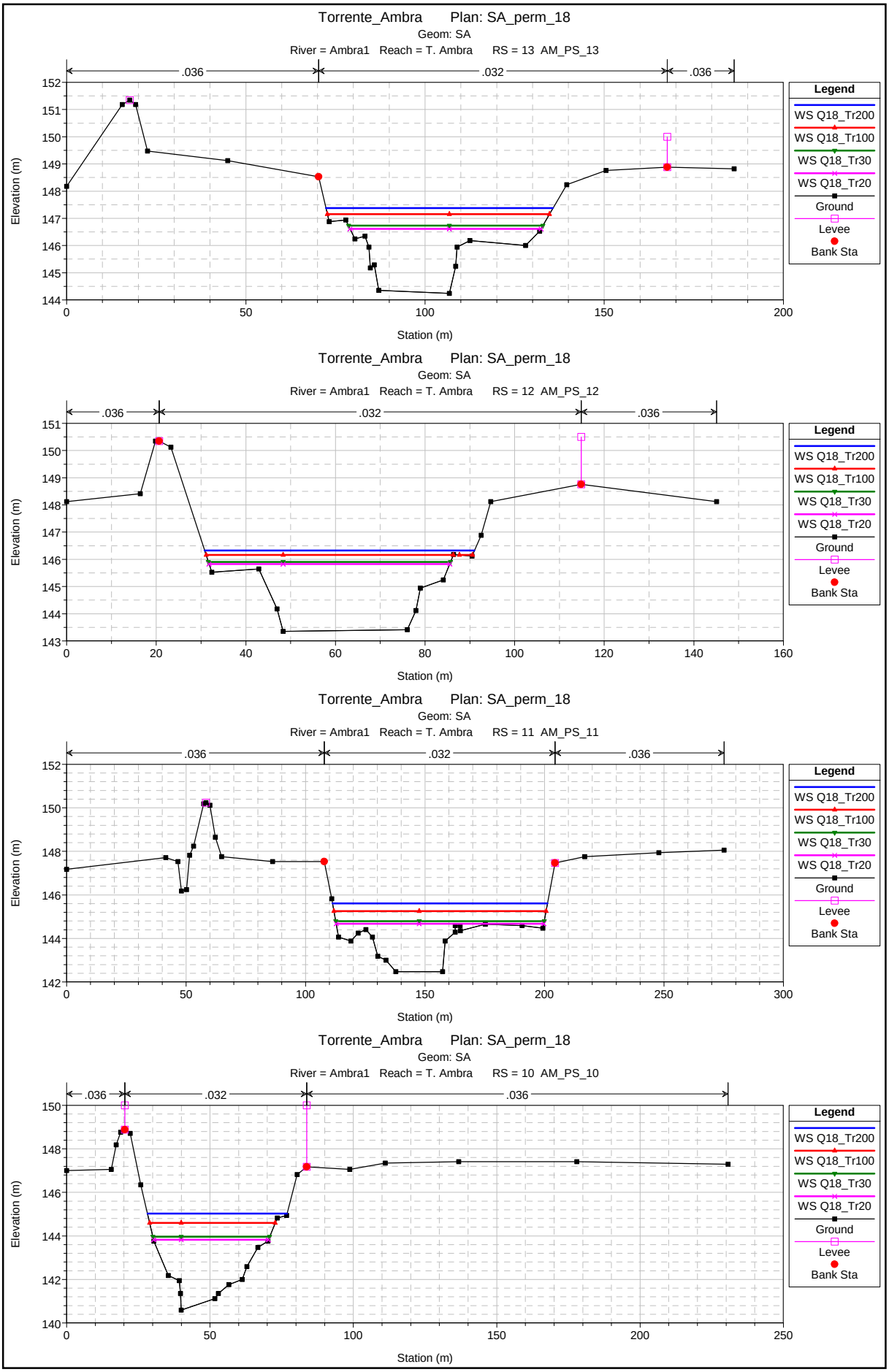

Plan: SA_200_cr Storage Area: sx_27.9
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
149.3
149.2
149.1
149.0
148.9
148.8
148.7
148.6
8
6
4
2
0
-2
-4
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time


Plan: SA_200_cr Storage Area: dx_48.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
154.6
154.5
154.4
154.3
154.2
154.1
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time


Plan: SA_200_cr Storage Area: dx_31.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
148.64
148.62
148.60
148.58
148.56
148.54
148.52
148.50
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time


Plan: SA_200_cr Storage Area: dx_28.8
Legend
Stage
Net Inflow
Stage (m)
Flow (m3/s)
149.4
149.2
149.0
148.8
148.6
148.4
8
6
4
2
0
-2
2400
0600
1200
1800
2400
0600
1200
1800
2400
01Jan2008
02Jan2008
Time

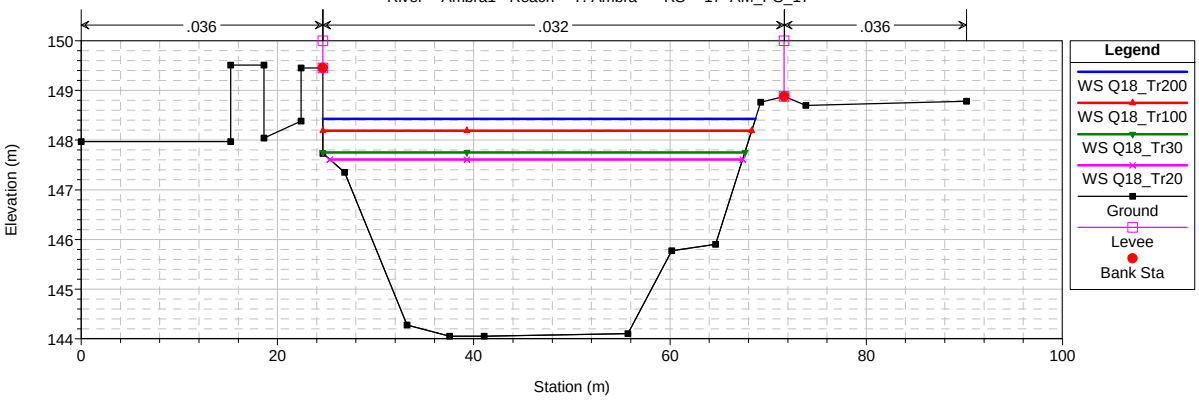

Torrente_Ambra Plan: SA_perm_18
Geom: SA
Ambra1 T. Ambra
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Left Levee
Right Levee
Elevation (m)
Main Channel Distance (m)
140
145
150
155
0
1000
2000
3000
4000


Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 13 AM_PS_13
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 12 AM_PS_12
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 11 AM_PS_11
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 10 AM_PS_10
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta

Torrente_Ambra Plan: SA_perm_18

Geom: SA

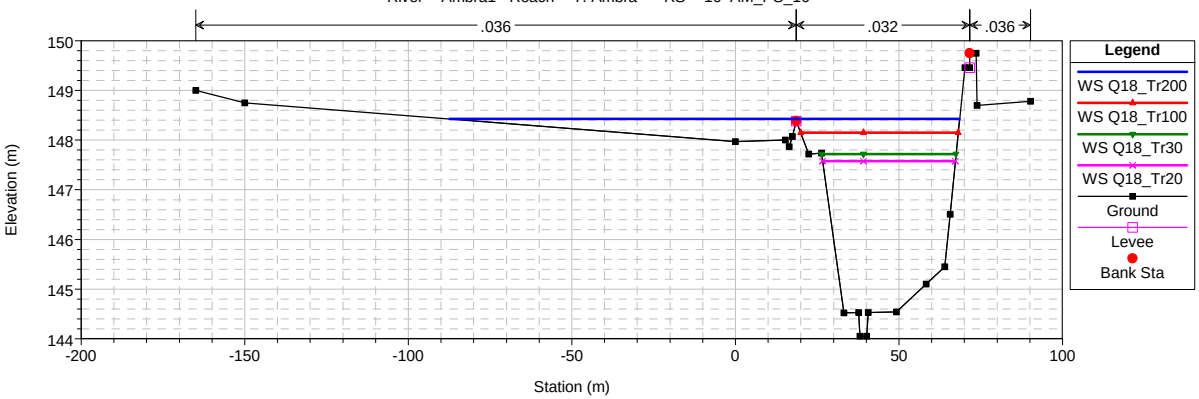
River = Ambra1 Reach = T. Ambra RS = 17 AM_PS_17



Torrente_Ambra Plan: SA_perm_18

Geom: SA

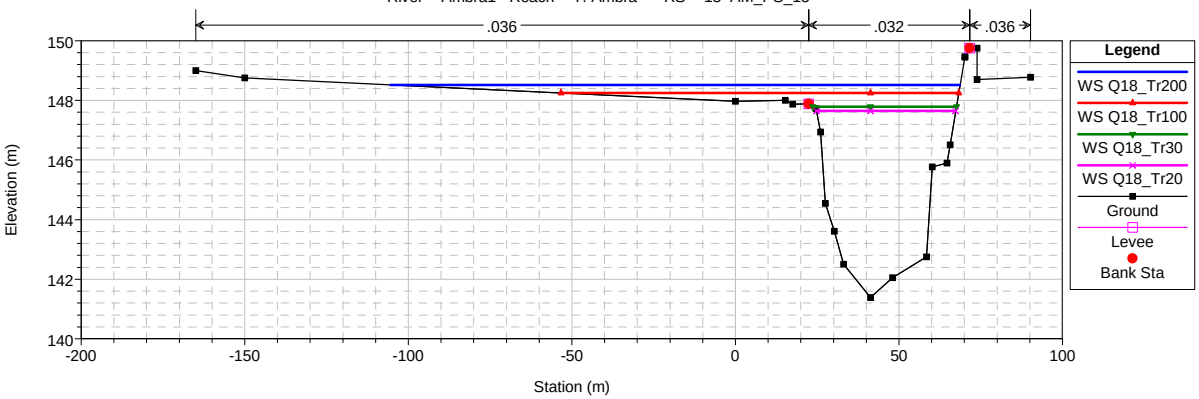
River = Ambra1 Reach = T. Ambra RS = 16 AM_PS_16



Torrente_Ambra Plan: SA_perm_18

Geom: SA

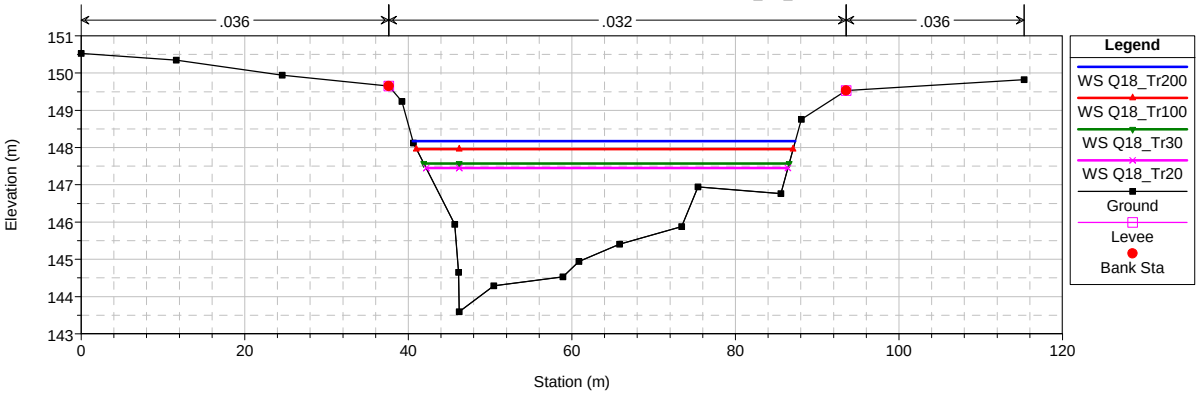
River = Ambra1 Reach = T. Ambra RS = 15 AM_PS_15

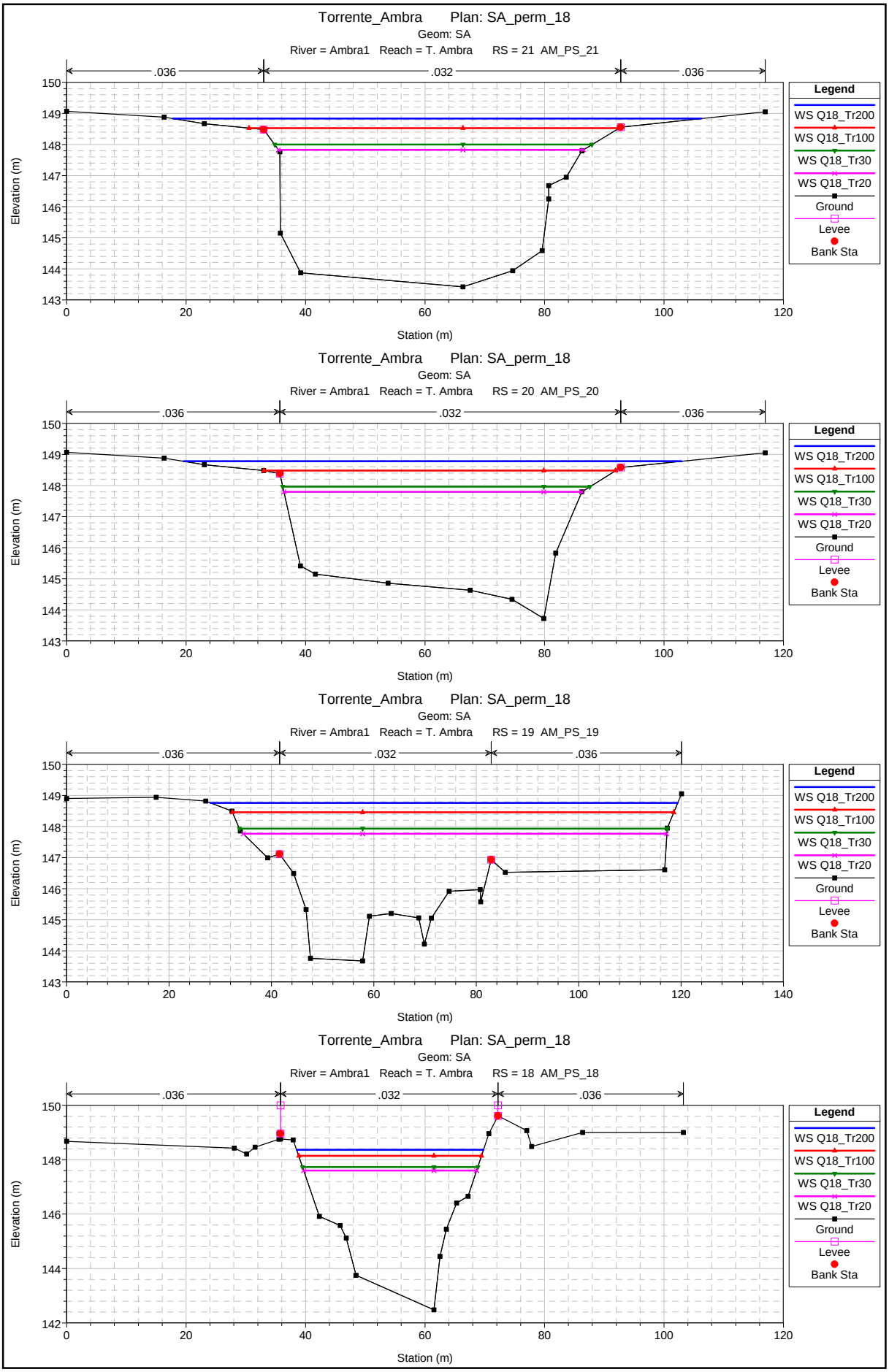


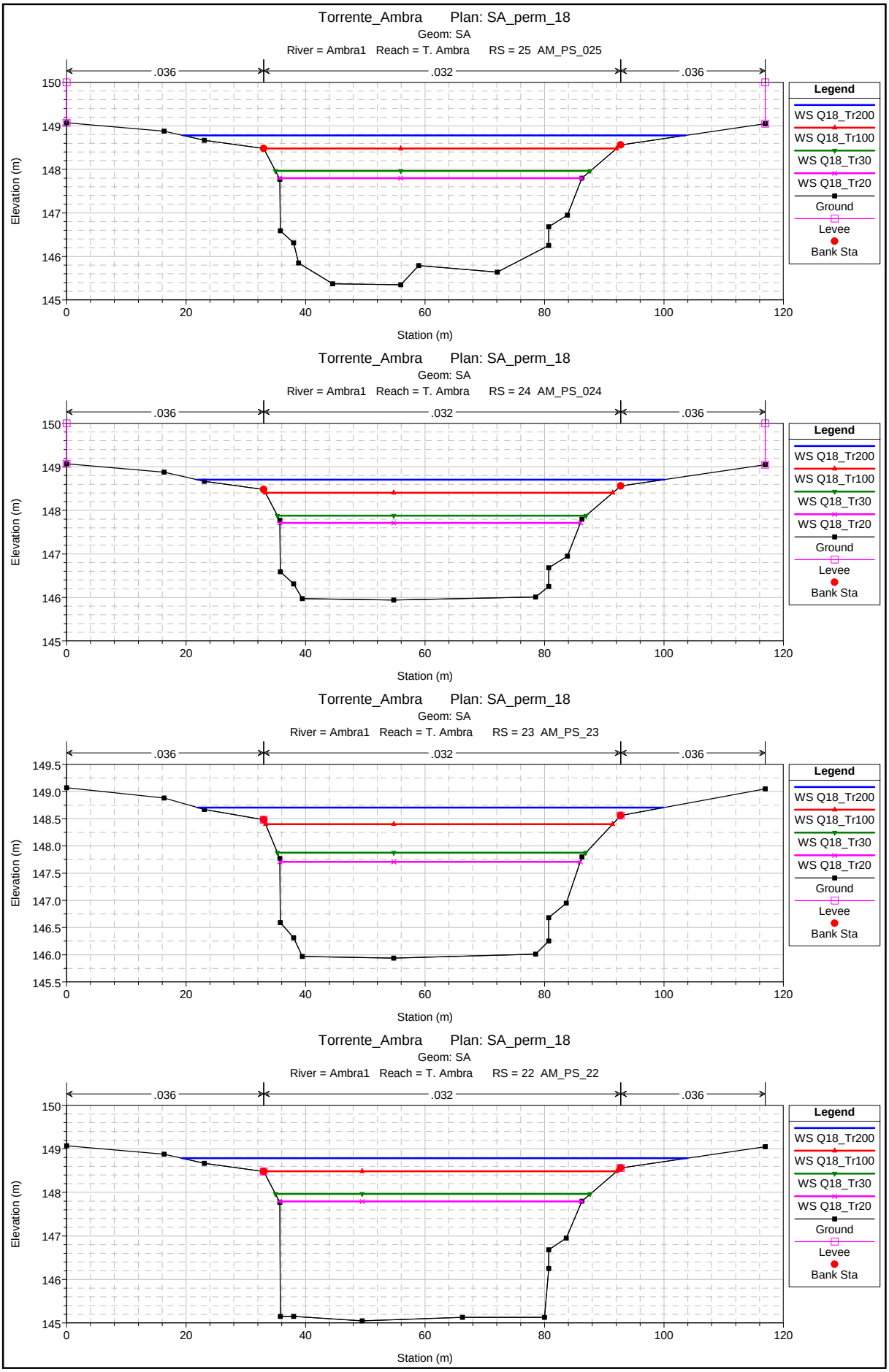
Torrente_Ambra Plan: SA_perm_18

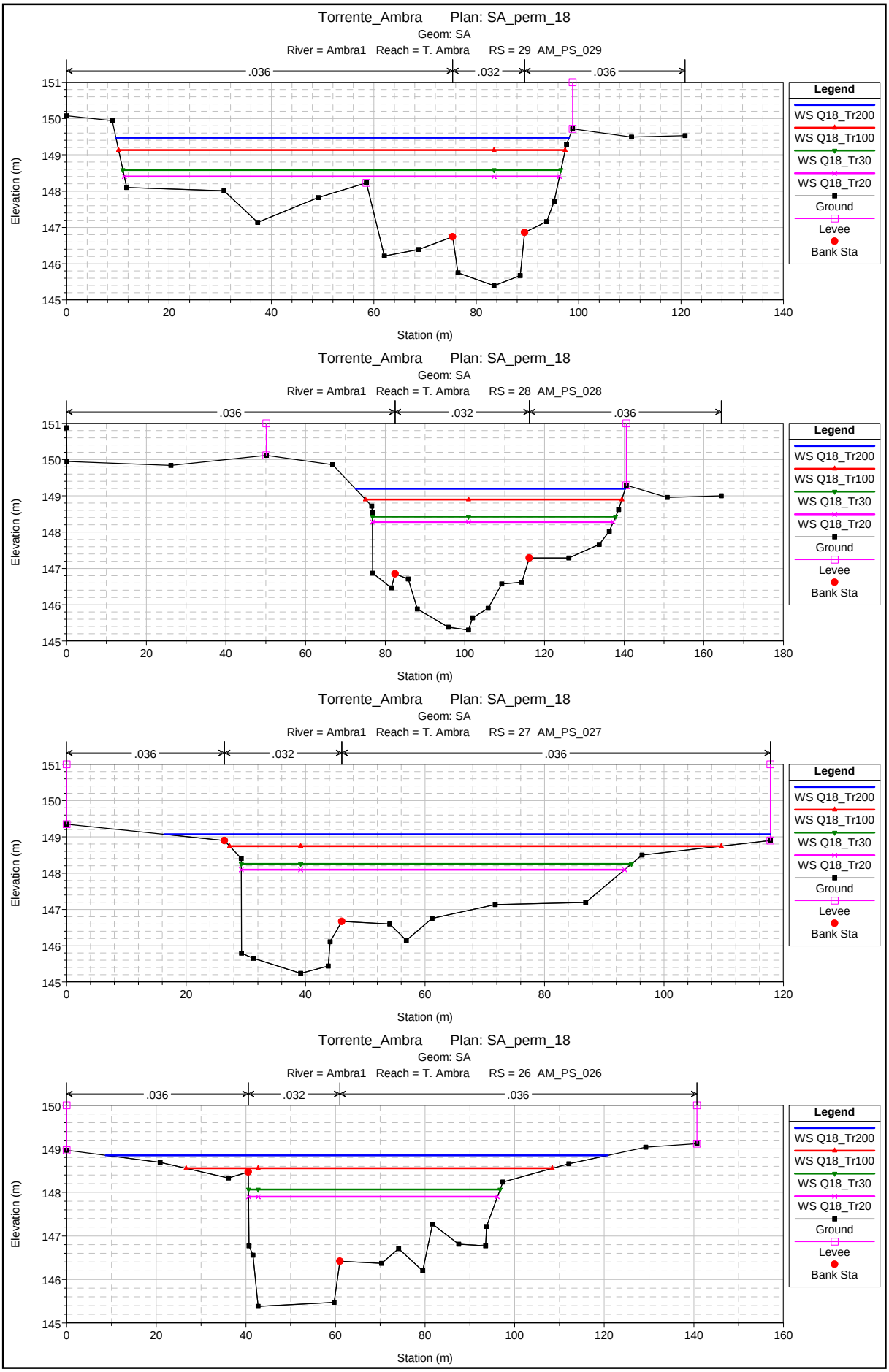
Geom: SA

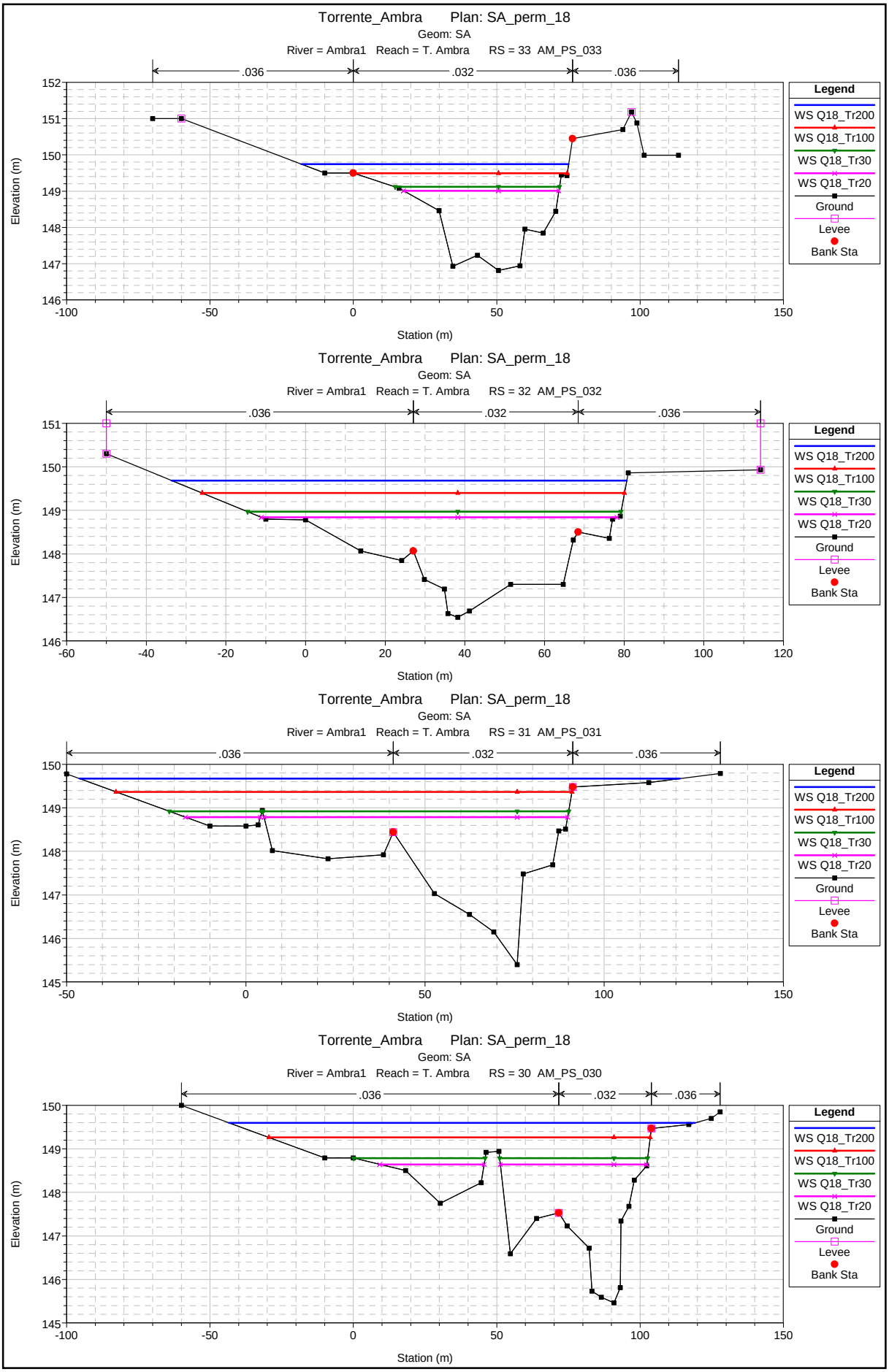
River = Ambra1 Reach = T. Ambra RS = 14 AM_PS_14

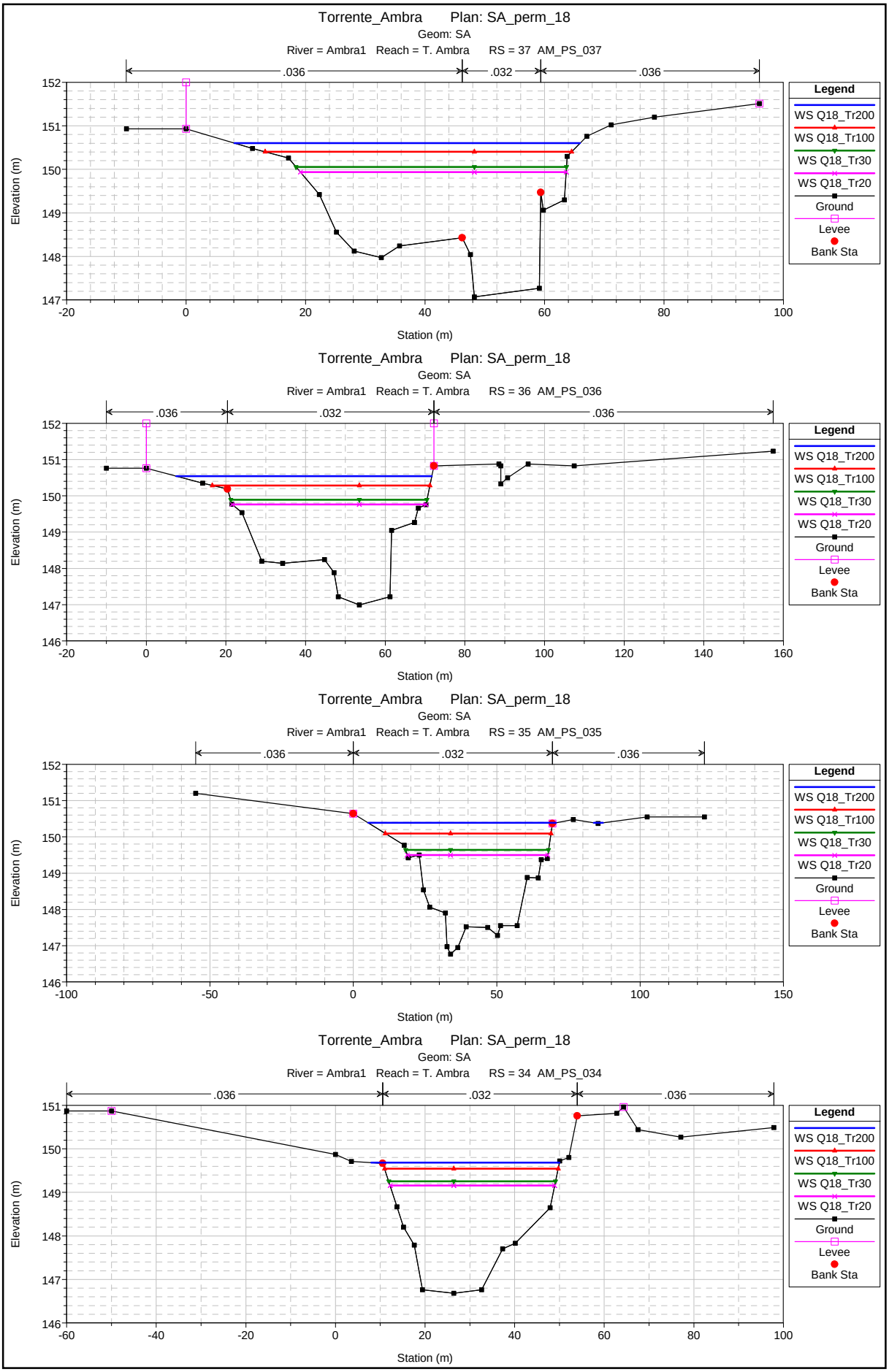


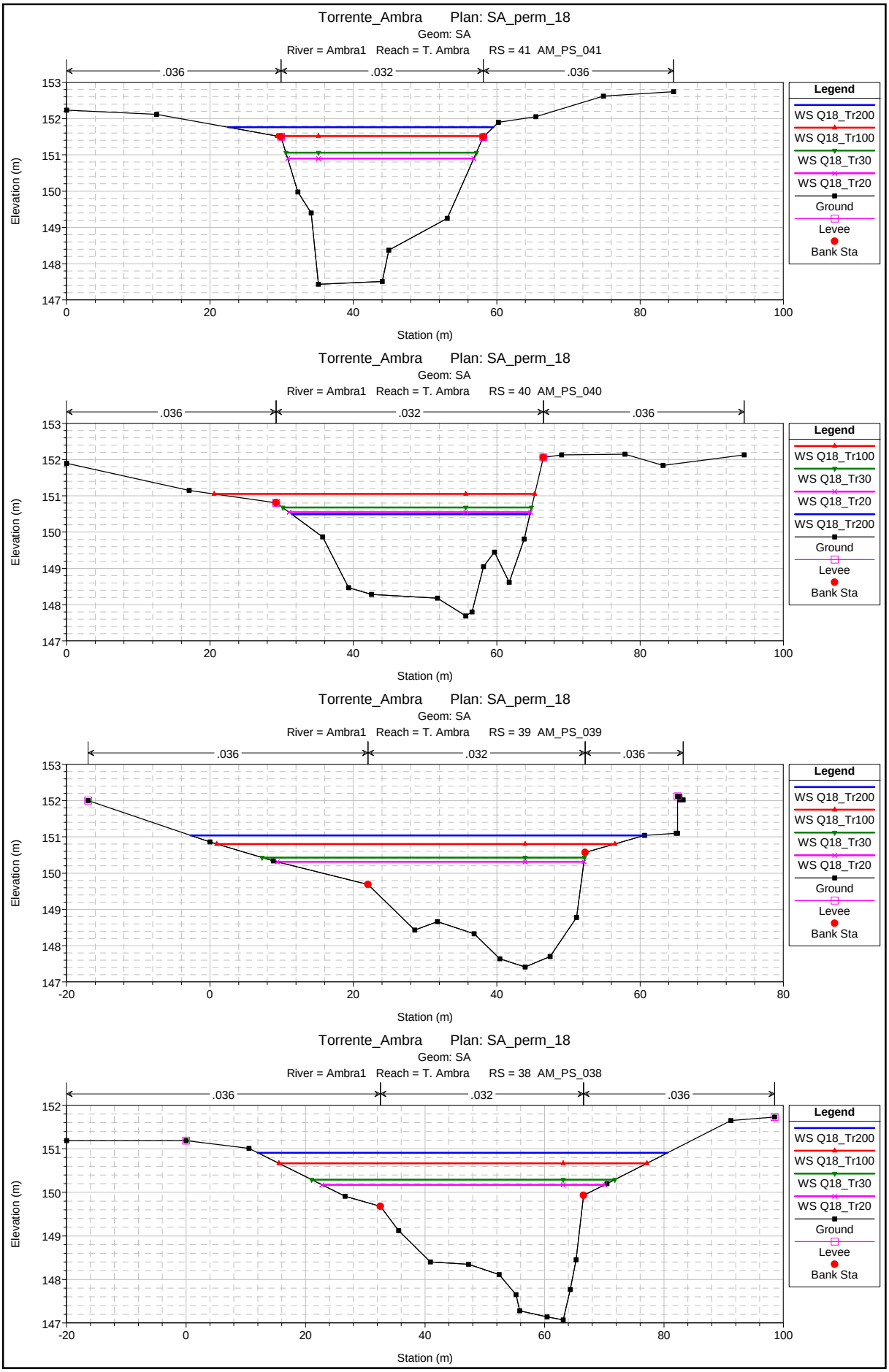

Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 21 AM_PS_21
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 20 AM_PS_20
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 19 AM_PS_19
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 18 AM_PS_18
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta

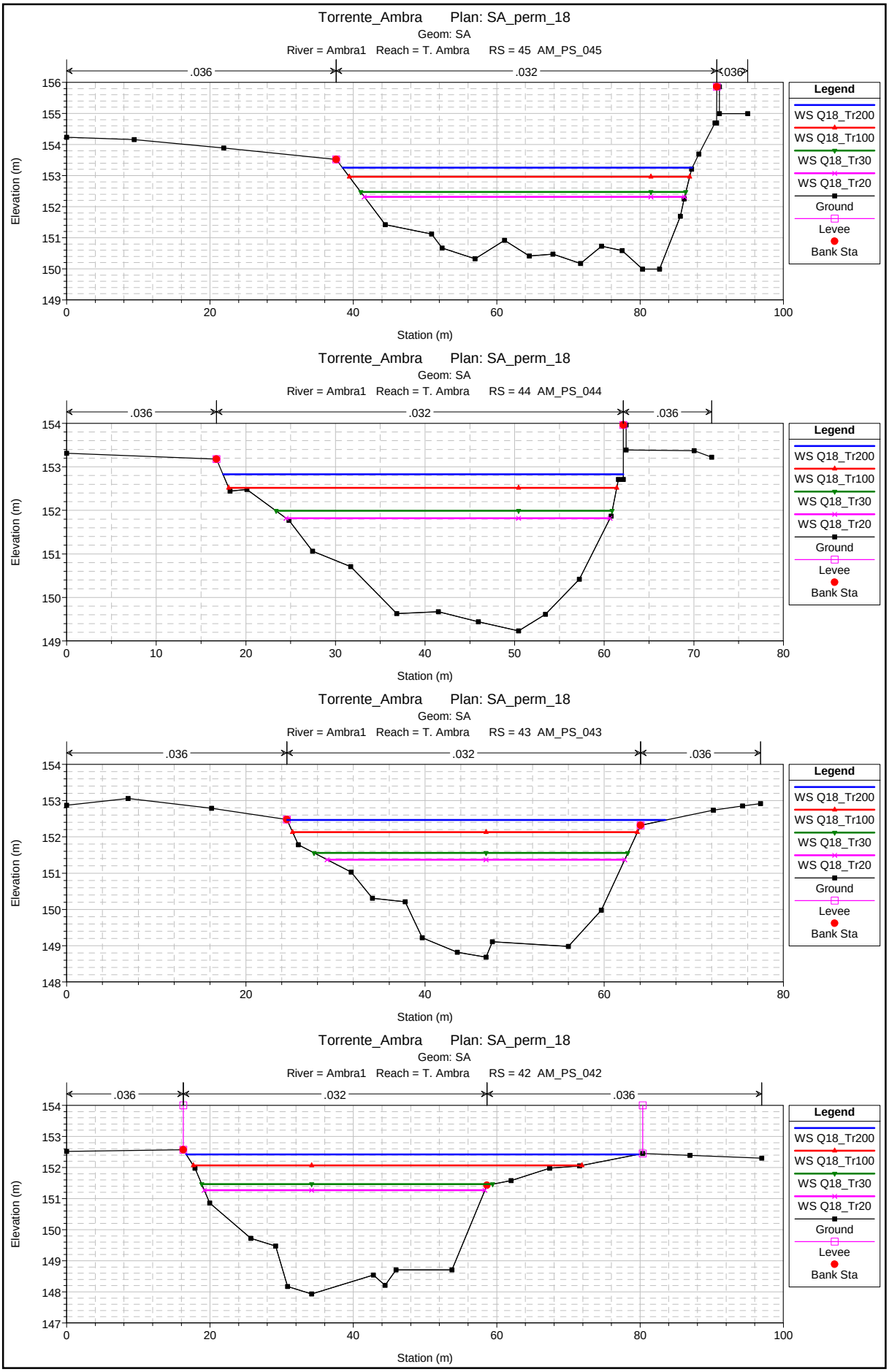

Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 25 AM_PS_025
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 24 AM_PS_024
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 23 AM_PS_23
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 22 AM_PS_22
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta

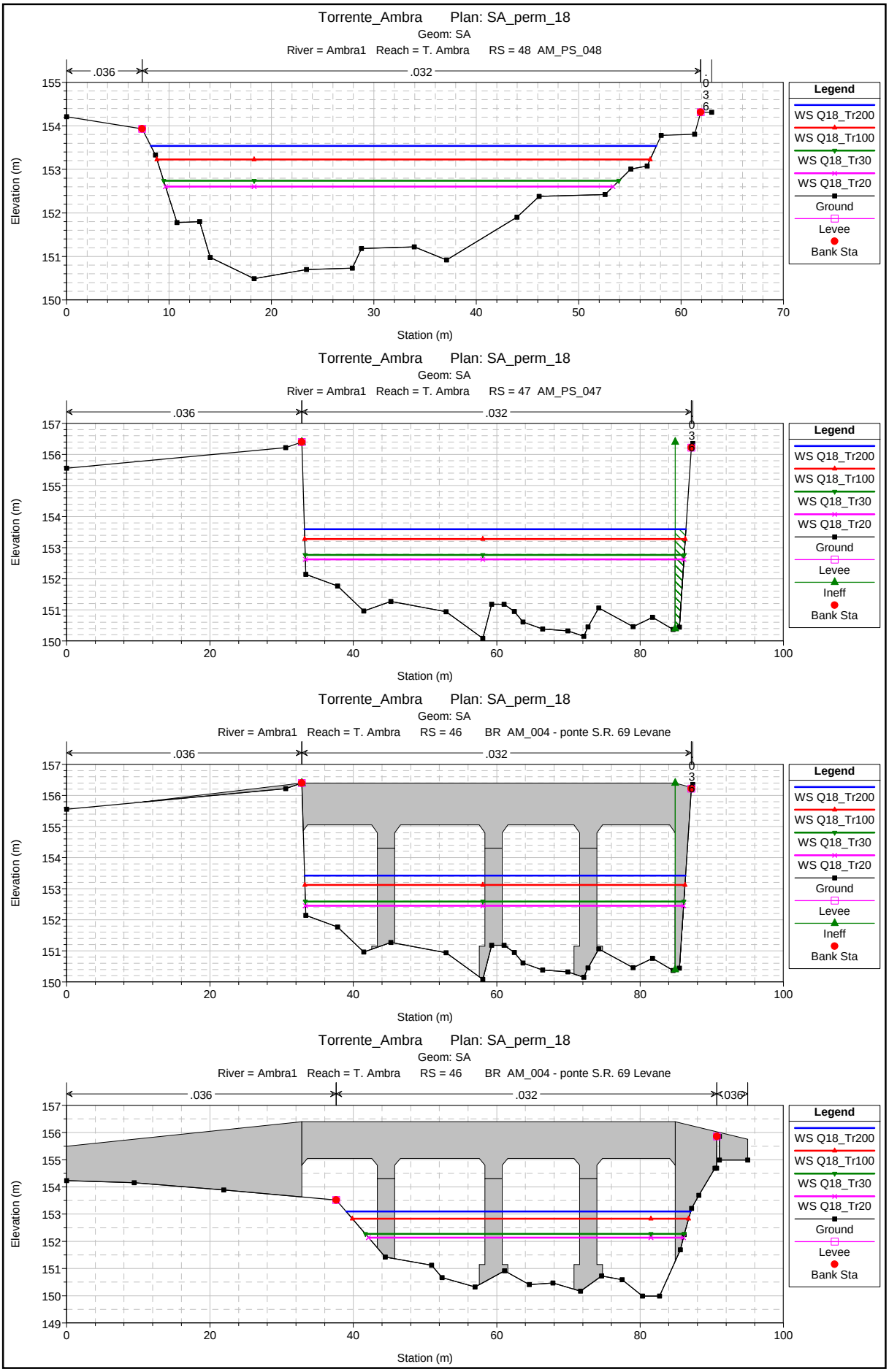

Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 29 AM_PS_029
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 28 AM_PS_028
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 27 AM_PS_027
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 26 AM_PS_026
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta

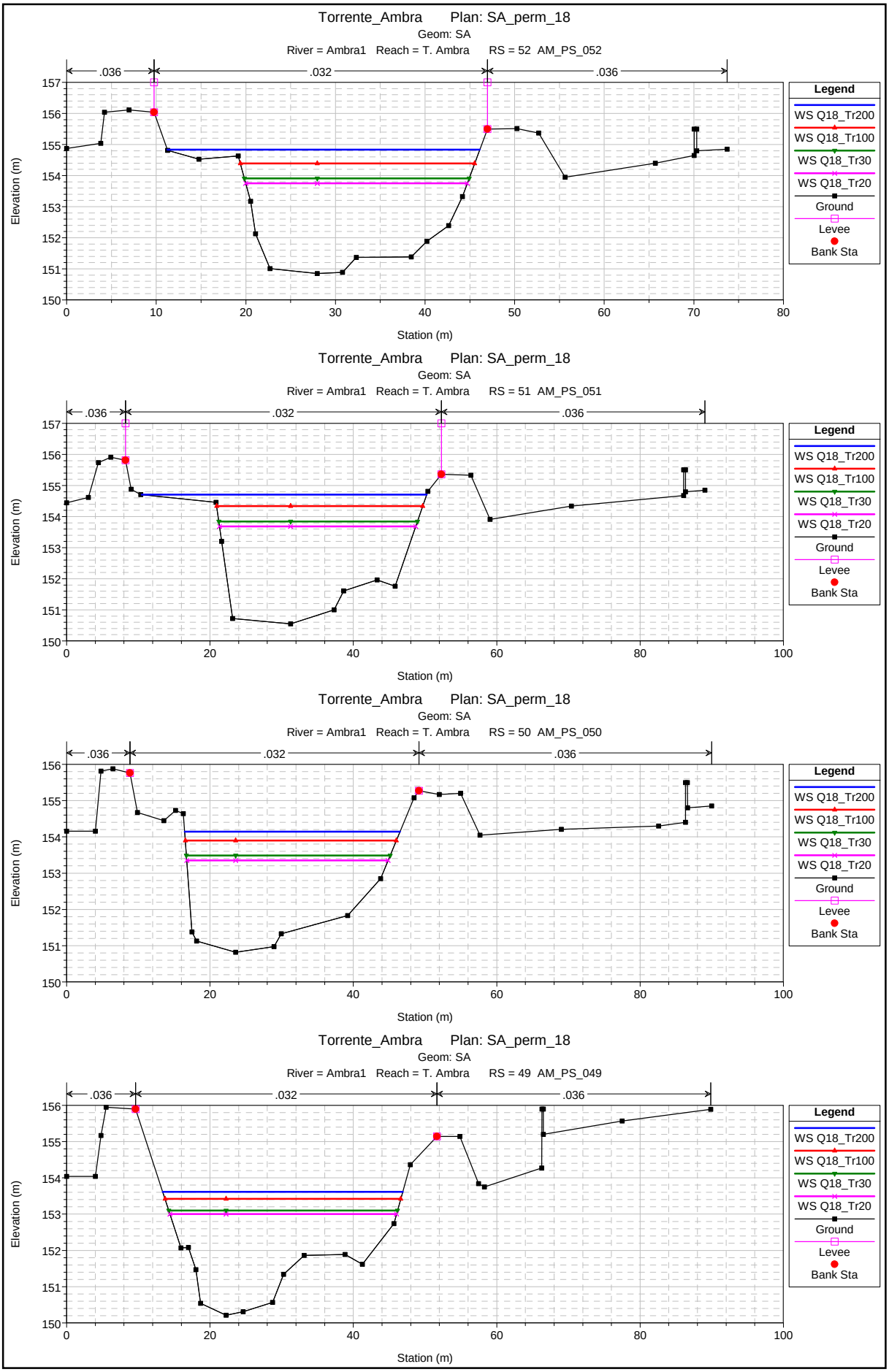

Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 33 AM_PS_033
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 32 AM_PS_032
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 31 AM_PS_031
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 30 AM_PS_030
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta

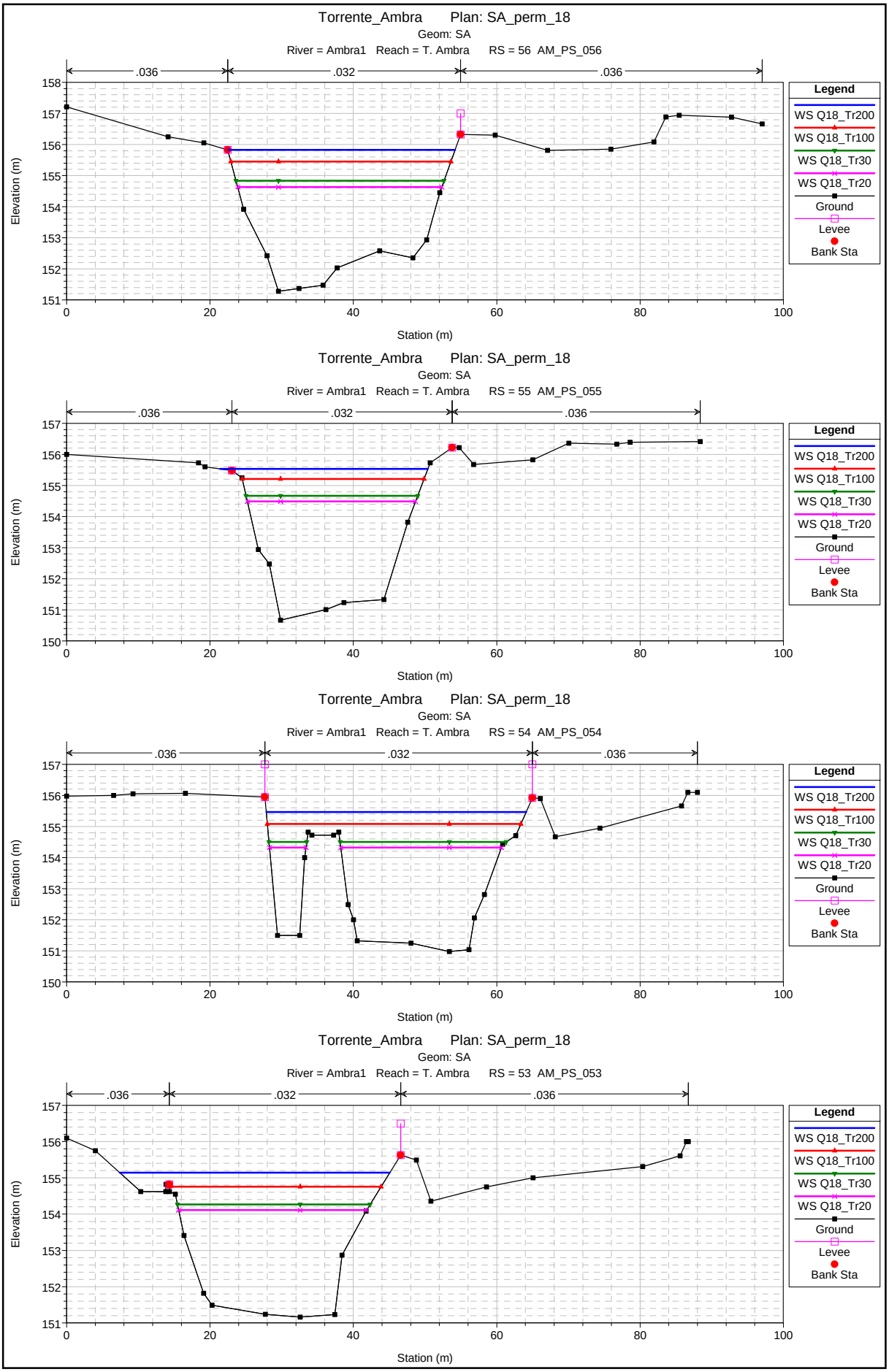

Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 37 AM_PS_037
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 36 AM_PS_036
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 35 AM_PS_035
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 34 AM_PS_034
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta

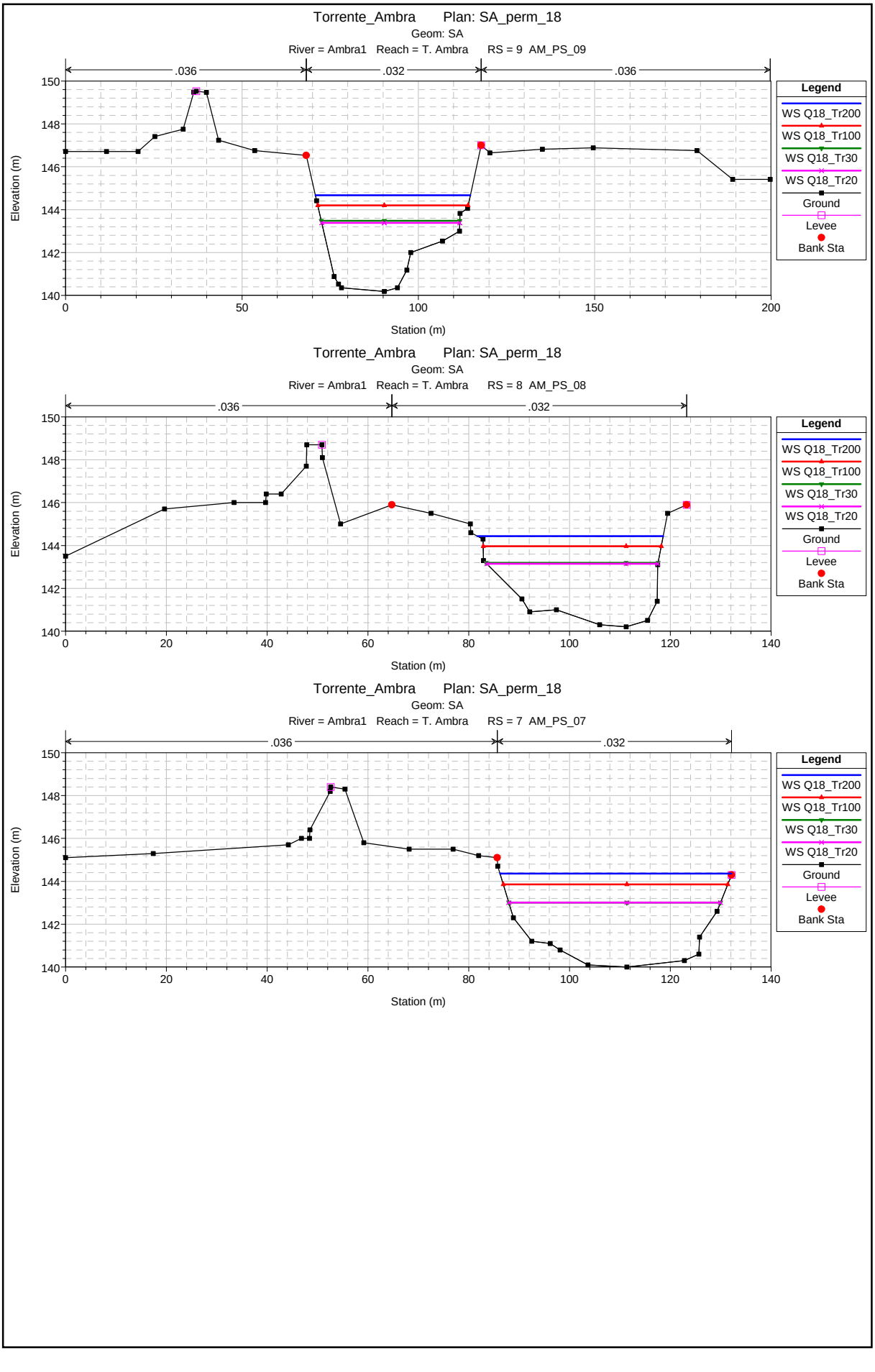

Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 41 AM_PS_041
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 40 AM_PS_040
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
WS Q18_Tr200
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 39 AM_PS_039
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 38 AM_PS_038
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta


Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 45 AM_PS_045
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 44 AM_PS_044
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 43 AM_PS_043
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 42 AM_PS_042
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta


Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 48 AM_PS_048
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 47 AM_PS_047
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 46 BR AM_004 - ponte S.R. 69 Levane
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Ineff
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 46 BR AM_004 - ponte S.R. 69 Levane
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta


Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 52 AM_PS_052
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 51 AM_PS_051
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 50 AM_PS_050
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 49 AM_PS_049
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta


Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 56 AM_PS_056
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 55 AM_PS_055
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 54 AM_PS_054
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 53 AM_PS_053
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta


Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 9 AM_PS_09
.036
.032
.036
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 8 AM_PS_08
.036
.032
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta
Torrente_Ambra Plan: SA_perm_18
Geom: SA
River = Ambra1 Reach = T. Ambra RS = 7 AM_PS_07
.036
.032
Elevation (m)
Station (m)
Legend
WS Q18_Tr200
WS Q18_Tr100
WS Q18_Tr30
WS Q18_Tr20
Ground
Levee
Bank Sta

HEC-RAS Plan: SA_perm_18 River: Ambra1 Reach: T. Ambra

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	56	Q18_Tr200	316.22	151.28	155.83	154.69	156.33	0.002388	3.14	100.85	31.74	0.56
T. Ambra	56	Q18_Tr100	263.70	151.28	155.45	154.40	155.90	0.002387	2.96	89.10	30.71	0.55
T. Ambra	56	Q18_Tr30	187.73	151.28	154.83	153.94	155.19	0.002401	2.66	70.66	29.03	0.54
T. Ambra	56	Q18_Tr20	165.81	151.28	154.63	153.80	154.97	0.002415	2.56	64.89	28.48	0.54
T. Ambra	55	Q18_Tr200	316.22	150.67	155.53	154.36	156.15	0.002903	3.48	90.86	29.00	0.61
T. Ambra	55	Q18_Tr100	263.70	150.67	155.21	154.02	155.73	0.002557	3.21	82.23	25.37	0.57
T. Ambra	55	Q18_Tr30	187.73	150.67	154.67	153.48	155.05	0.002138	2.72	68.94	23.95	0.51
T. Ambra	55	Q18_Tr20	165.81	150.67	154.49	153.30	154.82	0.002006	2.57	64.62	23.47	0.49
T. Ambra	54	Q18_Tr200	316.22	150.98	155.46	154.10	155.90	0.002657	2.91	108.50	36.27	0.54
T. Ambra	54	Q18_Tr100	263.70	150.98	155.09	153.80	155.48	0.002778	2.78	94.95	35.39	0.54
T. Ambra	54	Q18_Tr30	187.73	150.98	154.51	153.31	154.82	0.002277	2.47	75.91	28.45	0.48
T. Ambra	54	Q18_Tr20	165.81	150.98	154.33	153.16	154.60	0.002121	2.34	70.91	27.51	0.46
T. Ambra	53	Q18_Tr200	316.22	151.16	155.14	154.30	155.76	0.003339	3.50	92.36	37.66	0.65
T. Ambra	53	Q18_Tr100	263.70	151.16	154.75	153.98	155.34	0.003548	3.38	77.96	29.53	0.66
T. Ambra	53	Q18_Tr30	187.73	151.16	154.27	153.47	154.70	0.002998	2.92	64.29	26.86	0.60
T. Ambra	53	Q18_Tr20	165.81	151.16	154.11	153.30	154.50	0.002828	2.76	60.09	26.20	0.58
T. Ambra	52	Q18_Tr200	316.22	150.85	154.83	154.10	155.54	0.004804	3.73	84.74	34.85	0.76
T. Ambra	52	Q18_Tr100	263.70	150.85	154.39	153.79	155.09	0.004130	3.70	71.26	26.15	0.72
T. Ambra	52	Q18_Tr30	187.73	150.85	153.91	153.30	154.42	0.003689	3.19	58.88	25.08	0.66
T. Ambra	52	Q18_Tr20	165.81	150.85	153.75	153.14	154.21	0.003538	3.02	54.95	24.73	0.65
T. Ambra	51	Q18_Tr200	316.22	150.55	154.71	153.72	155.27	0.003965	3.34	94.77	39.77	0.69
T. Ambra	51	Q18_Tr100	263.70	150.55	154.34	153.43	154.85	0.002902	3.19	82.69	28.75	0.60
T. Ambra	51	Q18_Tr30	187.73	150.55	153.84	152.97	154.22	0.002547	2.73	68.83	27.72	0.55
T. Ambra	51	Q18_Tr20	165.81	150.55	153.69	152.82	154.02	0.002423	2.57	64.44	27.39	0.54
T. Ambra	50	Q18_Tr200	316.22	150.82	154.14	153.88	155.06	0.006064	4.24	74.65	30.04	0.86
T. Ambra	50	Q18_Tr100	263.70	150.82	153.90	153.60	154.68	0.005707	3.91	67.48	29.44	0.82
T. Ambra	50	Q18_Tr30	187.73	150.82	153.49	153.16	154.07	0.005215	3.38	55.53	28.43	0.77
T. Ambra	50	Q18_Tr20	165.81	150.82	153.35	153.01	153.88	0.005053	3.21	51.72	28.09	0.75

HEC-RAS Plan: SA_perm_18 River: Ambra1 Reach: T. Ambra (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	49	Q18_Tr200	316.22	150.21	153.62	153.58	154.63	0.008028	4.46	70.89	33.49	0.98
T. Ambra	49	Q18_Tr100	263.70	150.21	153.42	153.32	154.27	0.007454	4.09	64.48	32.90	0.93
T. Ambra	49	Q18_Tr30	187.73	150.21	153.10	152.92	153.72	0.006495	3.47	54.05	31.92	0.85
T. Ambra	49	Q18_Tr20	165.81	150.21	153.00	152.79	153.54	0.006115	3.26	50.86	31.61	0.82
T. Ambra	48.9		Lat Struct									
T. Ambra	48.8		Lat Struct									
T. Ambra	48	Q18_Tr200	316.22	150.49	153.54	153.14	154.07	0.004410	3.22	98.09	49.36	0.73
T. Ambra	48	Q18_Tr100	263.70	150.49	153.23	152.92	153.74	0.005145	3.17	83.08	48.16	0.77
T. Ambra	48	Q18_Tr30	187.73	150.49	152.74	152.59	153.23	0.006799	3.11	60.28	44.45	0.85
T. Ambra	48	Q18_Tr20	165.81	150.49	152.60	152.49	153.08	0.007305	3.05	54.37	43.70	0.87
T. Ambra	47	Q18_Tr200	316.22	150.08	153.60	152.45	153.86	0.001476	2.26	139.74	53.23	0.44
T. Ambra	47	Q18_Tr100	263.70	150.08	153.28	152.27	153.51	0.001536	2.13	123.53	53.10	0.44
T. Ambra	47	Q18_Tr30	187.73	150.08	152.77	151.98	152.96	0.001721	1.94	96.99	52.88	0.45
T. Ambra	47	Q18_Tr20	165.81	150.08	152.62	151.88	152.80	0.001754	1.85	89.41	52.82	0.45
T. Ambra	46		Bridge									
T. Ambra	45	Q18_Tr200	316.22	149.99	153.26	152.46	153.64	0.002587	2.75	114.93	48.79	0.57
T. Ambra	45	Q18_Tr100	263.70	149.99	152.97	152.25	153.31	0.002667	2.61	100.94	47.49	0.57
T. Ambra	45	Q18_Tr30	187.73	149.99	152.47	151.92	152.77	0.002981	2.41	78.03	45.35	0.59
T. Ambra	45	Q18_Tr20	165.81	149.99	152.32	151.82	152.59	0.003100	2.33	71.12	44.68	0.59
T. Ambra	44	Q18_Tr200	316.22	149.23	152.83	152.14	153.32	0.003369	3.09	102.24	44.68	0.65
T. Ambra	44	Q18_Tr100	263.70	149.23	152.52	151.89	152.97	0.003613	2.98	88.47	43.29	0.67
T. Ambra	44	Q18_Tr30	187.73	149.23	151.99	151.49	152.38	0.003706	2.78	67.51	37.51	0.66
T. Ambra	44	Q18_Tr20	165.81	149.23	151.82	151.36	152.19	0.003796	2.71	61.27	36.16	0.66
T. Ambra	43	Q18_Tr200	316.22	148.68	152.46	151.80	153.00	0.003341	3.23	98.04	42.23	0.66
T. Ambra	43	Q18_Tr100	263.70	148.68	152.13	151.53	152.62	0.003605	3.11	84.84	38.48	0.67
T. Ambra	43	Q18_Tr30	187.73	148.68	151.56	151.08	152.00	0.004204	2.95	63.53	35.01	0.70
T. Ambra	43	Q18_Tr20	165.81	148.68	151.37	150.93	151.80	0.004345	2.90	57.15	33.20	0.71

HEC-RAS Plan: SA_perm_18 River: Ambra1 Reach: T. Ambra (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	42	Q18_Tr200	316.22	147.93	152.42	150.89	152.69	0.001230	2.31	143.96	63.10	0.41
T. Ambra	42	Q18_Tr100	263.70	147.93	152.07	150.64	152.31	0.001254	2.20	123.01	54.24	0.41
T. Ambra	42	Q18_Tr30	187.73	147.93	151.47	150.23	151.66	0.001310	1.97	95.22	40.59	0.41
T. Ambra	42	Q18_Tr20	165.81	147.93	151.27	150.10	151.45	0.001325	1.90	87.43	39.14	0.41
T. Ambra	41	Q18_Tr200	316.22	147.43	151.76	151.14	152.51	0.004036	3.83	83.66	37.04	0.71
T. Ambra	41	Q18_Tr100	263.70	147.43	151.52	150.82	152.14	0.003768	3.49	75.59	28.93	0.68
T. Ambra	41	Q18_Tr30	187.73	147.43	151.06	150.31	151.51	0.003244	2.99	62.88	26.56	0.62
T. Ambra	41	Q18_Tr20	165.81	147.43	150.90	150.14	151.30	0.003081	2.82	58.72	25.96	0.60
T. Ambra	40	Q18_Tr200	316.22	147.69	150.50	150.91	152.04	0.015885	5.50	57.47	33.23	1.34
T. Ambra	40	Q18_Tr100	263.70	147.69	151.05	150.64	151.65	0.004642	3.42	78.05	44.72	0.75
T. Ambra	40	Q18_Tr30	187.73	147.69	150.68	150.20	151.12	0.004225	2.95	63.63	34.70	0.70
T. Ambra	40	Q18_Tr20	165.81	147.69	150.55	150.06	150.95	0.004016	2.80	59.24	33.66	0.67
T. Ambra	39	Q18_Tr200	316.22	147.41	151.04	150.68	151.65	0.003710	3.57	101.11	63.53	0.70
T. Ambra	39	Q18_Tr100	263.70	147.41	150.81	150.41	151.35	0.003699	3.36	86.99	55.56	0.68
T. Ambra	39	Q18_Tr30	187.73	147.41	150.43	149.94	150.85	0.003441	2.91	68.48	44.98	0.64
T. Ambra	39	Q18_Tr20	165.81	147.41	150.31	149.80	150.69	0.003304	2.75	63.21	42.76	0.63
T. Ambra	38	Q18_Tr200	316.22	147.07	150.91	150.34	151.39	0.002834	3.17	113.67	68.63	0.61
T. Ambra	38	Q18_Tr100	263.70	147.07	150.67	150.06	151.10	0.002830	2.97	97.81	61.58	0.60
T. Ambra	38	Q18_Tr30	187.73	147.07	150.29	149.63	150.62	0.002625	2.57	76.77	50.74	0.56
T. Ambra	38	Q18_Tr20	165.81	147.07	150.18	149.50	150.47	0.002502	2.42	71.09	47.39	0.55
T. Ambra	37	Q18_Tr200	316.22	147.07	150.60	150.04	151.13	0.003939	3.85	109.33	57.88	0.68
T. Ambra	37	Q18_Tr100	263.70	147.07	150.40	149.82	150.84	0.003429	3.44	98.39	51.30	0.63
T. Ambra	37	Q18_Tr30	187.73	147.07	150.06	149.45	150.36	0.002732	2.84	82.08	45.30	0.55
T. Ambra	37	Q18_Tr20	165.81	147.07	149.94	149.35	150.21	0.002584	2.68	76.68	44.50	0.53
T. Ambra	36	Q18_Tr200	316.22	146.99	150.54	149.85	150.93	0.002835	2.76	116.57	64.15	0.59
T. Ambra	36	Q18_Tr100	263.70	146.99	150.29	149.62	150.63	0.002924	2.60	101.48	54.63	0.59
T. Ambra	36	Q18_Tr30	187.73	146.99	149.89	149.27	150.16	0.002956	2.31	81.29	49.28	0.57
T. Ambra	36	Q18_Tr20	165.81	146.99	149.77	149.13	150.01	0.002936	2.20	75.23	48.69	0.57

HEC-RAS Plan: SA_perm_18 River: Ambra1 Reach: T. Ambra (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	35	Q18_Tr200	316.22	146.77	150.39	149.64	150.73	0.003057	2.60	121.69	68.61	0.60
T. Ambra	35	Q18_Tr100	263.70	146.77	150.09	149.40	150.42	0.003141	2.54	103.75	57.79	0.61
T. Ambra	35	Q18_Tr30	187.73	146.77	149.64	149.04	149.92	0.003162	2.36	79.61	49.80	0.60
T. Ambra	35	Q18_Tr20	165.81	146.77	149.50	148.93	149.77	0.003258	2.28	72.75	49.00	0.60
T. Ambra	34	Q18_Tr200	316.22	146.68	149.68	149.51	150.48	0.006351	3.94	80.28	42.01	0.88
T. Ambra	34	Q18_Tr100	263.70	146.68	149.54	149.26	150.18	0.005456	3.53	74.78	38.75	0.81
T. Ambra	34	Q18_Tr30	187.73	146.68	149.26	148.88	149.70	0.004439	2.94	63.81	37.25	0.72
T. Ambra	34	Q18_Tr20	165.81	146.68	149.16	148.76	149.54	0.004129	2.76	60.18	36.74	0.69
T. Ambra	33	Q18_Tr200	316.22	146.81	149.74	149.28	150.09	0.003829	2.62	123.33	93.18	0.66
T. Ambra	33	Q18_Tr100	263.70	146.81	149.49	149.05	149.84	0.004703	2.61	100.98	74.21	0.71
T. Ambra	33	Q18_Tr30	187.73	146.81	149.12	148.70	149.42	0.004234	2.45	76.71	57.35	0.68
T. Ambra	33	Q18_Tr20	165.81	146.81	149.01	148.57	149.29	0.004019	2.35	70.68	54.12	0.66
T. Ambra	32	Q18_Tr200	316.22	146.54	149.69	149.03	149.90	0.001642	2.30	174.99	114.30	0.47
T. Ambra	32	Q18_Tr100	263.70	146.54	149.40	148.78	149.62	0.001939	2.30	143.18	106.02	0.50
T. Ambra	32	Q18_Tr30	187.73	146.54	148.97	148.52	149.20	0.002460	2.24	100.55	93.78	0.54
T. Ambra	32	Q18_Tr20	165.81	146.54	148.84	148.42	149.07	0.002640	2.20	88.61	89.31	0.55
T. Ambra	31.9		Lat Struct									
T. Ambra	31.8		Lat Struct									
T. Ambra	31	Q18_Tr200	316.22	145.40	149.67	148.66	149.80	0.000962	1.77	228.44	167.44	0.35
T. Ambra	31	Q18_Tr100	263.70	145.40	149.37	148.51	149.50	0.001135	1.77	184.91	127.28	0.38
T. Ambra	31	Q18_Tr30	187.73	145.40	148.92	148.15	149.04	0.001325	1.68	131.59	111.34	0.39
T. Ambra	31	Q18_Tr20	165.81	145.40	148.79	148.04	148.91	0.001399	1.64	117.00	105.69	0.40
T. Ambra	30	Q18_Tr200	316.22	145.46	149.60	148.64	149.74	0.001274	2.04	218.33	162.59	0.40
T. Ambra	30	Q18_Tr100	263.70	145.46	149.26	148.50	149.43	0.001674	2.15	169.91	133.05	0.45
T. Ambra	30	Q18_Tr30	187.73	145.46	148.79	148.17	148.96	0.001987	2.06	112.38	97.44	0.48
T. Ambra	30	Q18_Tr20	165.81	145.46	148.64	148.06	148.81	0.002102	2.02	99.06	87.51	0.48

HEC-RAS Plan: SA_perm_18 River: Ambra1 Reach: T. Ambra (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	29	Q18_Tr200	316.22	145.39	149.47	148.41	149.64	0.001015	2.32	196.13	88.51	0.38
T. Ambra	29	Q18_Tr100	263.70	145.39	149.13	148.16	149.30	0.001161	2.33	165.99	87.23	0.40
T. Ambra	29	Q18_Tr30	187.73	145.39	148.59	147.78	148.77	0.001535	2.40	119.14	85.58	0.45
T. Ambra	29	Q18_Tr20	165.81	145.39	148.40	147.66	148.60	0.001770	2.46	103.33	85.01	0.47
T. Ambra	28.8		Lat Struct									
T. Ambra	28	Q18_Tr200	316.22	145.30	149.19	148.07	149.43	0.001227	2.34	159.72	67.72	0.42
T. Ambra	28	Q18_Tr100	263.70	145.30	148.90	147.87	149.11	0.001227	2.19	140.48	64.37	0.41
T. Ambra	28	Q18_Tr30	187.73	145.30	148.43	147.52	148.60	0.001222	1.94	111.21	61.08	0.40
T. Ambra	28	Q18_Tr20	165.81	145.30	148.28	147.40	148.44	0.001229	1.86	101.90	60.48	0.40
T. Ambra	27.9		Lat Struct									
T. Ambra	27	Q18_Tr200	316.22	145.24	149.07	148.12	149.28	0.001730	2.48	170.41	101.51	0.45
T. Ambra	27	Q18_Tr100	263.70	145.24	148.75	147.95	148.96	0.001921	2.49	140.51	82.31	0.47
T. Ambra	27	Q18_Tr30	187.73	145.24	148.25	147.68	148.45	0.001834	2.32	105.53	65.29	0.45
T. Ambra	27	Q18_Tr20	165.81	145.24	148.10	147.59	148.29	0.001897	2.28	95.48	64.17	0.46
T. Ambra	26	Q18_Tr200	316.22	145.38	148.85	147.90	149.13	0.001882	2.79	158.96	112.07	0.49
T. Ambra	26	Q18_Tr100	263.70	145.38	148.55	147.71	148.81	0.001898	2.63	130.44	81.74	0.48
T. Ambra	26	Q18_Tr30	187.73	145.38	148.07	147.43	148.28	0.001835	2.32	99.28	56.15	0.47
T. Ambra	26	Q18_Tr20	165.81	145.38	147.90	147.25	148.10	0.001905	2.27	90.05	55.54	0.47
T. Ambra	25	Q18_Tr200	316.22	145.35	148.78	147.41	148.99	0.001263	2.04	157.65	84.09	0.41
T. Ambra	25	Q18_Tr100	263.70	145.35	148.48	147.22	148.67	0.001315	1.94	136.26	59.04	0.41
T. Ambra	25	Q18_Tr30	187.73	145.35	147.96	146.92	148.12	0.001270	1.75	107.40	52.69	0.39
T. Ambra	25	Q18_Tr20	165.81	145.35	147.80	146.81	147.94	0.001240	1.68	98.88	50.67	0.38
T. Ambra	24	Q18_Tr200	316.22	145.94	148.71	147.71	148.98	0.001931	2.33	137.67	78.25	0.49
T. Ambra	24	Q18_Tr100	263.70	145.94	148.40	147.52	148.66	0.002089	2.24	117.76	58.13	0.50
T. Ambra	24	Q18_Tr30	187.73	145.94	147.88	147.22	148.11	0.002308	2.11	89.00	51.69	0.51
T. Ambra	24	Q18_Tr20	165.81	145.94	147.71	147.13	147.93	0.002424	2.06	80.53	50.33	0.52
T. Ambra	23	Q18_Tr200	316.22	145.94	148.70	147.70	148.98	0.001948	2.33	137.22	77.90	0.49

HEC-RAS Plan: SA_perm_18 River: Ambra1 Reach: T. Ambra (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	23	Q18_Tr100	263.70	145.94	148.40	147.52	148.66	0.002109	2.25	117.38	58.07	0.50
T. Ambra	23	Q18_Tr30	187.73	145.94	147.88	147.22	148.10	0.002340	2.12	88.59	51.62	0.52
T. Ambra	23	Q18_Tr20	165.81	145.94	147.71	147.13	147.93	0.002463	2.07	80.11	50.29	0.52
T. Ambra	22	Q18_Tr200	316.22	145.05	148.79	146.85	148.94	0.000781	1.75	183.87	84.63	0.32
T. Ambra	22	Q18_Tr100	263.70	145.05	148.48	146.64	148.62	0.000766	1.63	162.21	59.28	0.31
T. Ambra	22	Q18_Tr30	187.73	145.05	147.96	146.33	148.06	0.000650	1.41	133.06	52.69	0.28
T. Ambra	22	Q18_Tr20	165.81	145.05	147.80	146.23	147.89	0.000603	1.33	124.45	50.66	0.27
T. Ambra	21	Q18_Tr200	316.22	143.42	148.83	145.54	148.92	0.000301	1.31	245.87	88.47	0.21
T. Ambra	21	Q18_Tr100	263.70	143.42	148.53	145.33	148.60	0.000272	1.18	222.76	61.93	0.20
T. Ambra	21	Q18_Tr30	187.73	143.42	148.00	145.02	148.05	0.000193	0.97	192.92	53.14	0.16
T. Ambra	21	Q18_Tr20	165.81	143.42	147.83	144.92	147.87	0.000167	0.90	184.08	51.05	0.15
T. Ambra	20	Q18_Tr200	316.22	143.72	148.78	146.50	148.92	0.000577	1.64	196.51	83.41	0.29
T. Ambra	20	Q18_Tr100	263.70	143.72	148.48	146.30	148.59	0.000540	1.50	175.38	58.85	0.27
T. Ambra	20	Q18_Tr30	187.73	143.72	147.96	145.98	148.04	0.000433	1.27	147.37	51.42	0.24
T. Ambra	20	Q18_Tr20	165.81	143.72	147.79	145.87	147.87	0.000395	1.19	138.96	49.88	0.23
T. Ambra	19	Q18_Tr200	316.22	143.68	148.76	147.03	148.87	0.000480	1.55	240.10	91.29	0.26
T. Ambra	19	Q18_Tr100	263.70	143.68	148.46	146.64	148.55	0.000469	1.45	213.13	86.20	0.25
T. Ambra	19	Q18_Tr30	187.73	143.68	147.93	146.28	148.01	0.000471	1.30	168.54	83.54	0.25
T. Ambra	19	Q18_Tr20	165.81	143.68	147.76	146.16	147.83	0.000471	1.24	154.56	82.71	0.24
T. Ambra	18	Q18_Tr200	316.22	142.48	148.36	146.79	148.78	0.001830	2.87	110.23	31.29	0.49
T. Ambra	18	Q18_Tr100	263.70	142.48	148.15	146.41	148.48	0.001523	2.55	103.50	30.62	0.44
T. Ambra	18	Q18_Tr30	187.73	142.48	147.74	145.86	147.95	0.001110	2.06	91.14	29.36	0.37
T. Ambra	18	Q18_Tr20	165.81	142.48	147.60	145.57	147.78	0.000985	1.90	87.16	28.94	0.35
T. Ambra	17	Q18_Tr200	316.22	144.05	148.43	146.57	148.66	0.000986	2.13	148.61	44.07	0.37
T. Ambra	17	Q18_Tr100	263.70	144.05	148.19	146.34	148.38	0.000856	1.91	138.19	43.69	0.34
T. Ambra	17	Q18_Tr30	187.73	144.05	147.75	145.96	147.88	0.000684	1.57	119.25	42.99	0.30
T. Ambra	17	Q18_Tr20	165.81	144.05	147.61	145.77	147.72	0.000616	1.46	113.19	42.07	0.29
T. Ambra	16	Q18_Tr200	316.22	144.05	148.42	146.84	148.65	0.001269	2.16	168.76	155.92	0.41

HEC-RAS Plan: SA_perm_18 River: Ambra1 Reach: T. Ambra (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	16	Q18_Tr100	263.70	144.05	148.15	146.61	148.37	0.001263	2.07	127.50	48.17	0.41
T. Ambra	16	Q18_Tr30	187.73	144.05	147.72	146.23	147.87	0.000923	1.75	107.36	41.13	0.35
T. Ambra	16	Q18_Tr20	165.81	144.05	147.58	146.11	147.72	0.000847	1.63	101.71	40.62	0.33
T. Ambra	15	Q18_Tr200	316.22	141.39	148.52	144.53	148.61	0.000270	1.38	264.68	174.15	0.20
T. Ambra	15	Q18_Tr100	263.70	141.39	148.25	144.26	148.33	0.000234	1.24	224.60	121.63	0.19
T. Ambra	15	Q18_Tr30	187.73	141.39	147.79	143.83	147.84	0.000161	0.99	189.95	43.91	0.15
T. Ambra	15	Q18_Tr20	165.81	141.39	147.64	143.70	147.69	0.000135	0.90	183.65	42.55	0.14
T. Ambra	14	Q18_Tr200	316.22	143.59	148.18	147.29	148.55	0.002464	2.72	116.23	46.78	0.55
T. Ambra	14	Q18_Tr100	263.70	143.59	147.96	147.08	148.27	0.002260	2.48	106.25	46.07	0.52
T. Ambra	14	Q18_Tr30	187.73	143.59	147.57	146.54	147.80	0.001996	2.11	88.77	44.69	0.48
T. Ambra	14	Q18_Tr20	165.81	143.59	147.45	146.41	147.65	0.001902	1.99	83.23	44.24	0.46
T. Ambra	13	Q18_Tr200	316.22	144.24	147.38	146.95	147.78	0.004011	2.83	111.67	63.34	0.68
T. Ambra	13	Q18_Tr100	263.70	144.24	147.15	146.73	147.52	0.004213	2.70	97.79	61.97	0.69
T. Ambra	13	Q18_Tr30	187.73	144.24	146.73	146.43	147.07	0.004702	2.56	73.21	54.24	0.70
T. Ambra	13	Q18_Tr20	165.81	144.24	146.61	146.33	146.93	0.004921	2.49	66.53	53.25	0.71
T. Ambra	12	Q18_Tr200	316.22	143.35	146.33	145.74	146.71	0.003426	2.76	114.39	60.22	0.64
T. Ambra	12	Q18_Tr100	263.70	143.35	146.16	145.41	146.48	0.003063	2.52	104.53	58.08	0.60
T. Ambra	12	Q18_Tr30	187.73	143.35	145.90	145.00	146.12	0.002286	2.08	90.40	54.04	0.51
T. Ambra	12	Q18_Tr20	165.81	143.35	145.83	144.86	146.02	0.002053	1.92	86.45	53.71	0.48
T. Ambra	11	Q18_Tr200	316.22	142.47	145.61	144.92	145.81	0.002004	2.00	157.87	89.99	0.48
T. Ambra	11	Q18_Tr100	263.70	142.47	145.25	144.79	145.47	0.002888	2.09	126.12	88.82	0.56
T. Ambra	11	Q18_Tr30	187.73	142.47	144.80	144.36	145.04	0.005100	2.18	86.05	87.32	0.70
T. Ambra	11	Q18_Tr20	165.81	142.47	144.67	144.23	144.92	0.006228	2.21	75.06	86.91	0.76
T. Ambra	10	Q18_Tr200	316.22	140.59	145.03	143.82	145.34	0.001895	2.50	126.35	48.67	0.50
T. Ambra	10	Q18_Tr100	263.70	140.59	144.60	143.54	144.91	0.002014	2.47	106.66	43.77	0.51
T. Ambra	10	Q18_Tr30	187.73	140.59	143.96	143.12	144.24	0.002426	2.35	79.79	40.70	0.54
T. Ambra	10	Q18_Tr20	165.81	140.59	143.82	142.98	144.08	0.002352	2.23	74.25	40.04	0.52
T. Ambra	9	Q18_Tr200	316.22	140.18	144.67	143.17	144.95	0.001356	2.34	135.08	43.91	0.43

HEC-RAS Plan: SA_perm_18 River: Ambra1 Reach: T. Ambra (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T. Ambra	9	Q18_Tr100	263.70	140.18	144.20	142.94	144.47	0.001547	2.30	114.85	42.64	0.45
T. Ambra	9	Q18_Tr30	187.73	140.18	143.48	142.49	143.72	0.001874	2.20	85.23	39.27	0.48
T. Ambra	9	Q18_Tr20	165.81	140.18	143.38	142.32	143.59	0.001686	2.04	81.44	39.12	0.45
T. Ambra	8	Q18_Tr200	316.22	140.20	144.43	143.05	144.80	0.001743	2.67	118.57	36.85	0.47
T. Ambra	8	Q18_Tr100	263.70	140.20	143.96	142.79	144.30	0.001892	2.60	101.61	35.35	0.49
T. Ambra	8	Q18_Tr30	187.73	140.20	143.19	142.36	143.51	0.002489	2.52	74.59	34.17	0.54
T. Ambra	8	Q18_Tr20	165.81	140.20	143.15	142.23	143.41	0.002049	2.26	73.21	33.96	0.49
T. Ambra	7	Q18_Tr200	316.22	140.00	144.36	142.46	144.57	0.000880	2.03	156.12	45.94	0.35
T. Ambra	7	Q18_Tr100	263.70	140.00	143.86	142.24	144.06	0.000982	1.98	133.48	44.55	0.36
T. Ambra	7	Q18_Tr30	187.73	140.00	143.01	141.86	143.20	0.001332	1.94	96.69	42.01	0.41
T. Ambra	7	Q18_Tr20	165.81	140.00	143.01	141.75	143.16	0.001039	1.71	96.69	42.01	0.36

HEC-RAS Plan: SA_perm_18

Storage Area	Profile	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
		(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
dx_28.8	Q18_Tr200	148.50	148.50	1.89	16.25	0.00
dx_28.8	Q18_Tr100	148.50	148.50	0.00	16.25	0.00
dx_28.8	Q18_Tr30	148.50	148.50	0.00	16.25	0.00
dx_28.8	Q18_Tr20	148.50	148.50	0.00	16.25	0.00
dx_31.8	Q18_Tr200	148.50	148.50	0.00	36.00	0.00
dx_31.8	Q18_Tr100	148.50	148.50	0.00	36.00	0.00
dx_31.8	Q18_Tr30	148.50	148.50	0.00	36.00	0.00
dx_31.8	Q18_Tr20	148.50	148.50	0.00	36.00	0.00
dx_48.8	Q18_Tr200	154.20	154.20	0.00	12.49	0.00
dx_48.8	Q18_Tr100	154.20	154.20	0.00	12.49	0.00
dx_48.8	Q18_Tr30	154.20	154.20	0.00	12.49	0.00
dx_48.8	Q18_Tr20	154.20	154.20	0.00	12.49	0.00
sx_27.9	Q18_Tr200	148.60	148.60	0.00	19.00	0.00
sx_27.9	Q18_Tr100	148.60	148.60	0.00	19.00	0.00
sx_27.9	Q18_Tr30	148.60	148.60	0.00	19.00	0.00
sx_27.9	Q18_Tr20	148.60	148.60	0.00	19.00	0.00
sx_31.9	Q18_Tr200	148.80	148.80	0.00	16.25	0.00
sx_31.9	Q18_Tr100	148.80	148.80	0.00	16.25	0.00
sx_31.9	Q18_Tr30	148.80	148.80	0.00	16.25	0.00
sx_31.9	Q18_Tr20	148.80	148.80	0.00	16.25	0.00
sx_48.9	Q18_Tr200	154.20	154.20	0.00	2.18	0.00
sx_48.9	Q18_Tr100	154.20	154.20	0.00	2.18	0.00
sx_48.9	Q18_Tr30	154.20	154.20	0.00	2.18	0.00
sx_48.9	Q18_Tr20	154.20	154.20	0.00	2.18	0.00