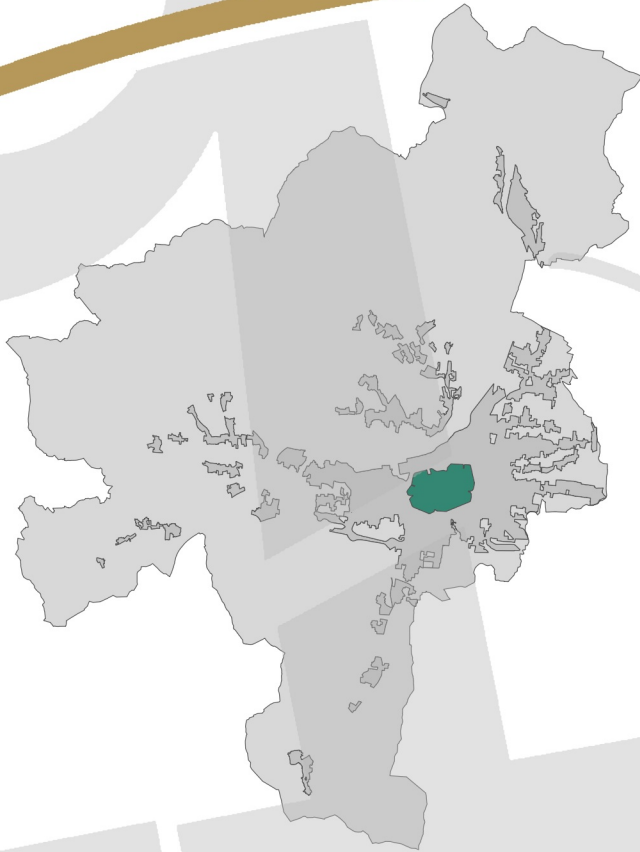




Città
di Lucca

La casa
della Città

il Piano Operativo



Quadro geologico - tecnico

ALL. I7 - Idraulica - Simulazioni sul sistema del Rio Guappero

Assessore all'Urbanistica

Serena Mammini

Sindaco

Alessandro Tambellini

Adozione

MODELLI IDRAULICI MONODIMENSIONALI

Si riportano gli output forniti dal codice di calcolo Hec-Ras 5.0.6 sul reticolo idraulico con simulazione del deflusso trentennale e duecentennale. Si allegano

- I profili;
- Le sezioni dei corsi d'acqua;
- L'output tabellare con i risultati delle simulazioni svolte.

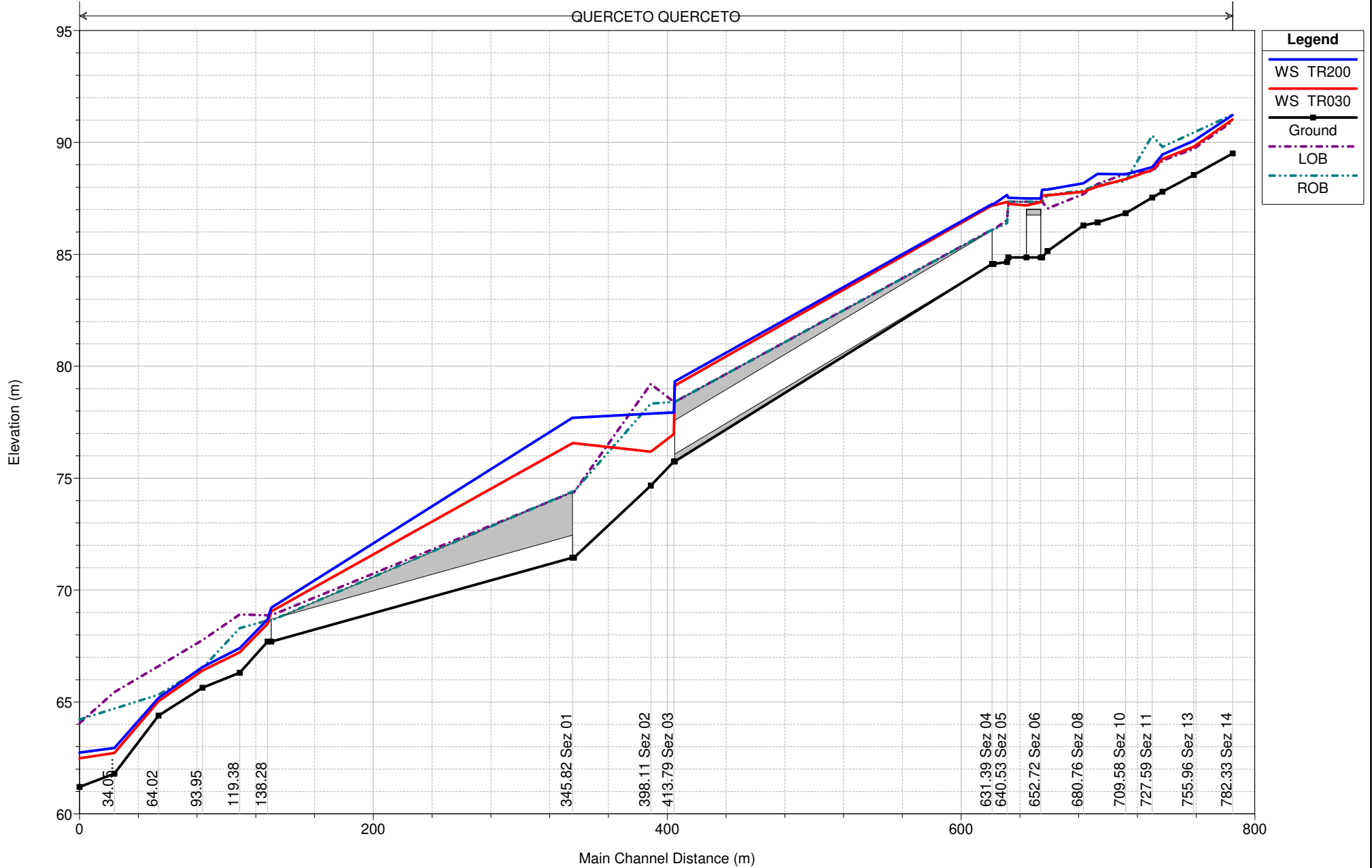
LEGENDA DELLE TABELLE

Le grandezze riportate in tabella hanno il seguente significato:

- **River station** Sezione trasversale del corso d'acqua
- **Q Total** Portata idraulica
- **Min Ch Elev** Quota del fondo rispetto al prescelto sistema di riferimento
- **W.S. Elev** Quota del pelo libero rispetto al prescelto sistema di riferimento
- **Max Chl Dpth** Tirante idraulico massimo (differenza dei termini W.S Elev e il termine Min Ch Elev)
- **LOB Elev** Quota della sommità arginale sinistra rispetto al prescelto sistema di riferimento
- **ROB Elev** Quota della sommità arginale destra rispetto al prescelto sistema di riferimento
- **L.Freeboard** Franco sinistro: differenza fra il termine LOB Elev e il termine W.S Elev
- **R.Freeboard** Franco destro: differenza fra il termine ROB Elev e il termine W.S Elev
- **Vel Chnl** Velocità media della corrente
- **Froude n.** Numero di Froude: se maggiore di 1 indica la presenza di corrente veloce, se inferiore a 1 segnala la presenza di corrente lenta

HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

QUERCETO QUERCETO

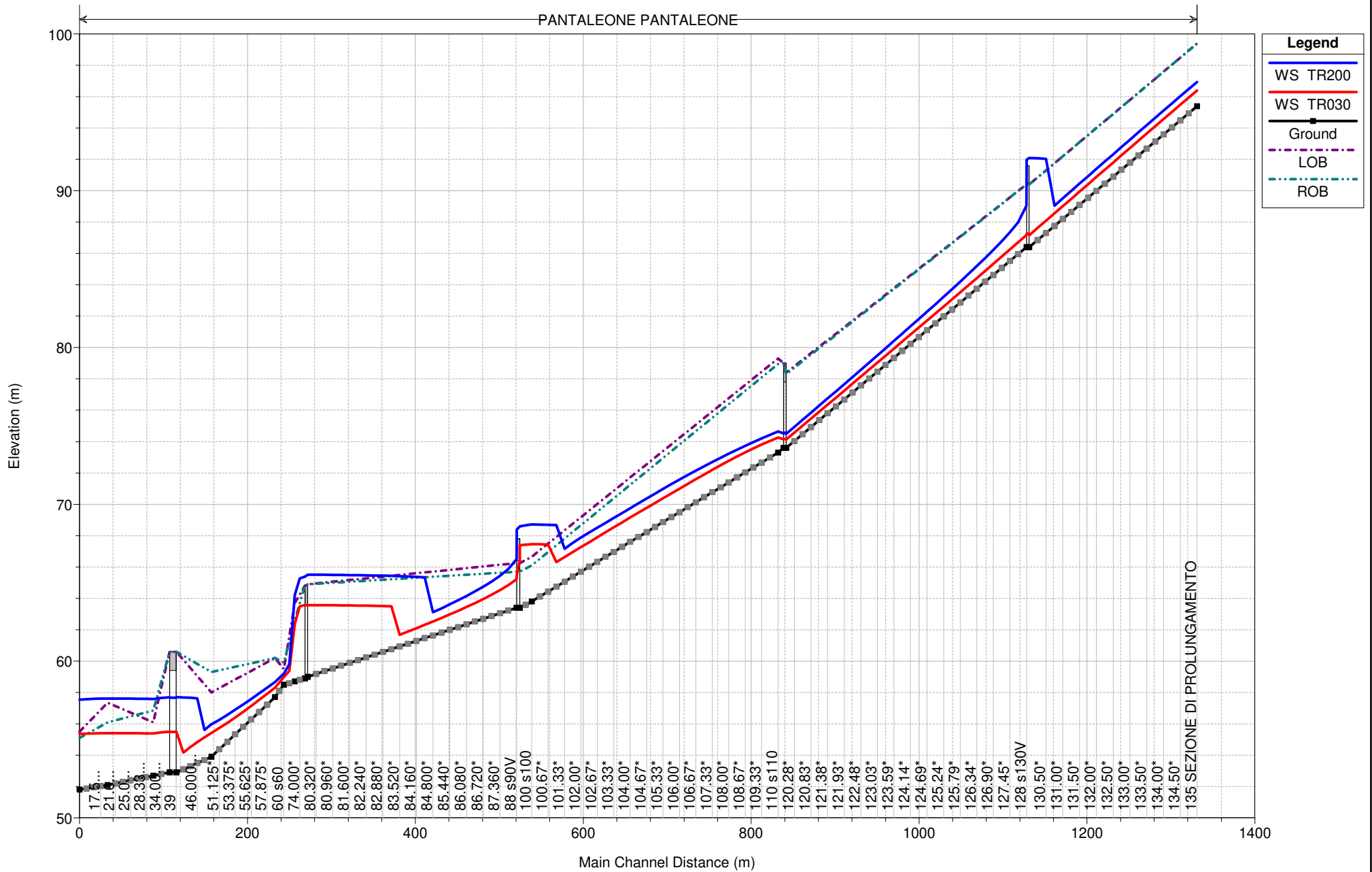


Legend

- WS TR200
- WS TR030
- Ground
- LOB
- ROB

HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

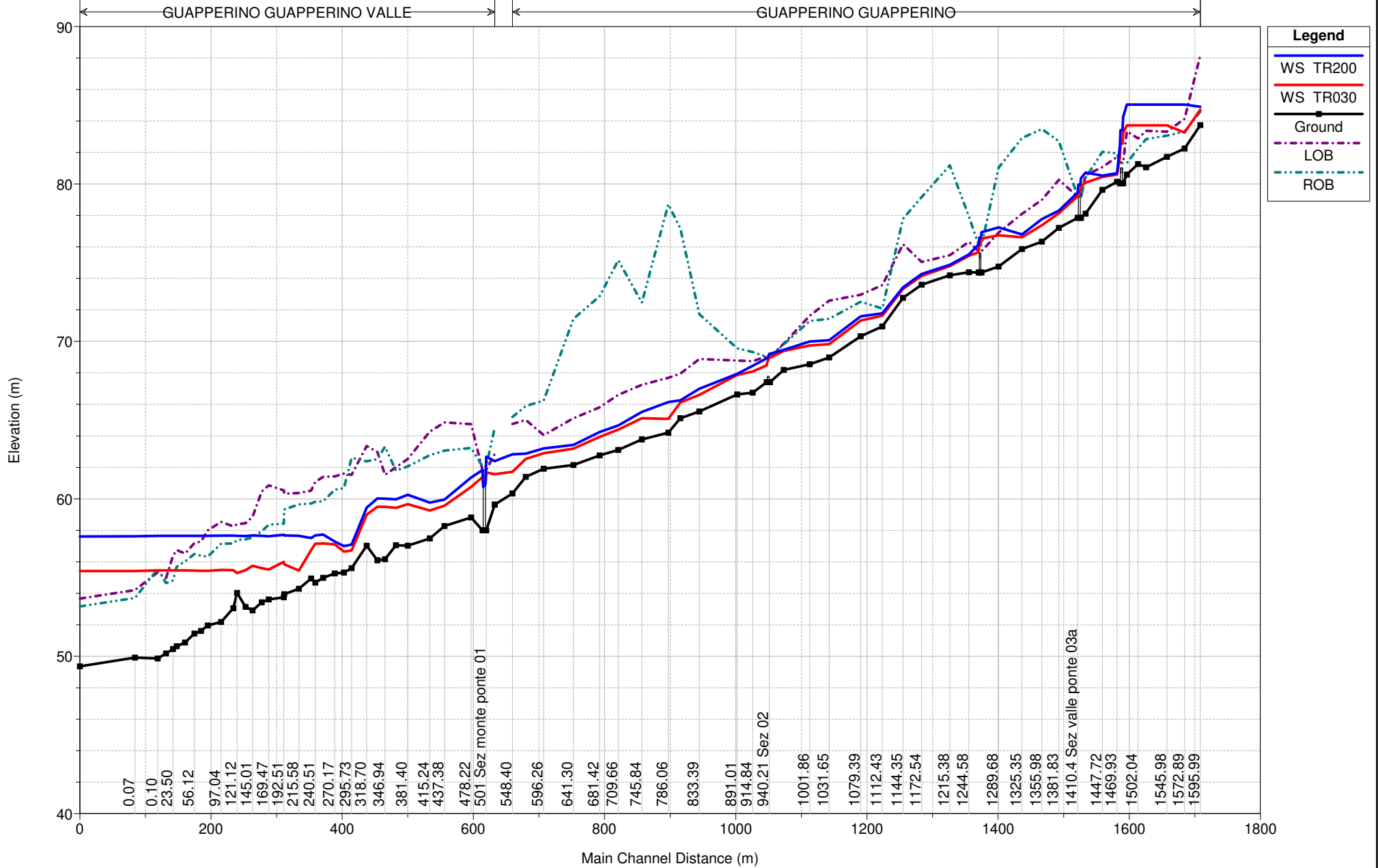
PANTALEONE PANTALEONE



Legend	
WS TR200	(Blue solid line)
WS TR030	(Red solid line)
Ground	(Black solid line)
LOB	(Purple dashed line)
ROB	(Green dashed line)

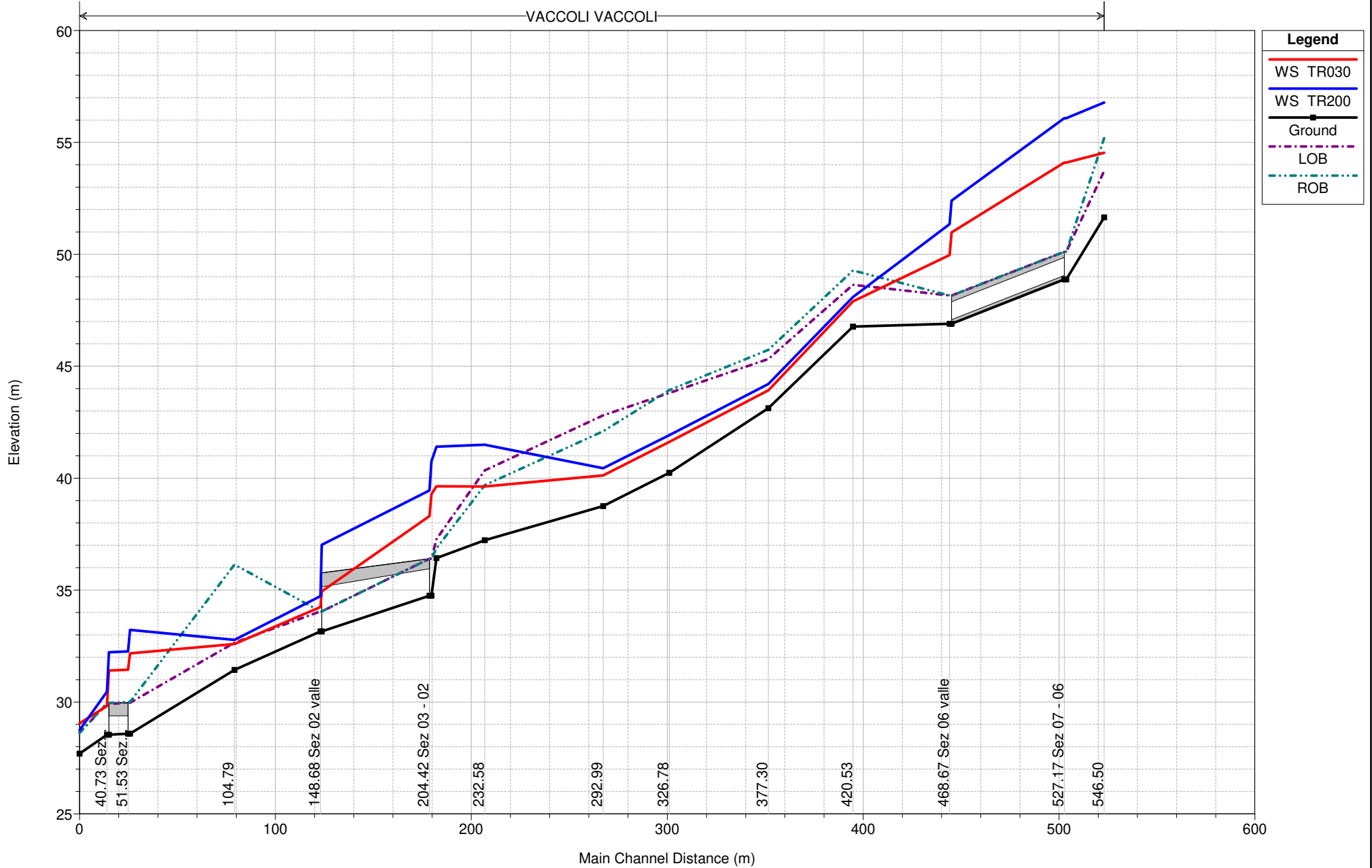
17.5...
 21.0...
 25.0...
 28.33...
 34.00...
 39
 46.000
 51.125*
 53.375*
 55.625*
 57.875*
 60.60
 74.000*
 80.320*
 80.960*
 81.600*
 82.240*
 82.880*
 83.520*
 84.160*
 84.800*
 85.440*
 86.080*
 86.720*
 87.360*
 88.90V
 100.00V
 100.67*
 101.33*
 102.00*
 102.67*
 103.33*
 104.00*
 104.67*
 105.33*
 106.00*
 106.67*
 107.33*
 108.00*
 108.67*
 109.33*
 110.00V
 120.28*
 120.83*
 121.38*
 121.93*
 122.48*
 123.03*
 123.59*
 124.14*
 124.69*
 125.24*
 125.79*
 126.34*
 126.90*
 127.45*
 128.00V
 130.50*
 131.00*
 131.50*
 132.00*
 132.50*
 133.00*
 133.50*
 134.00*
 134.50*
 135 SEZIONE DI PROLUNGAMENTO

HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

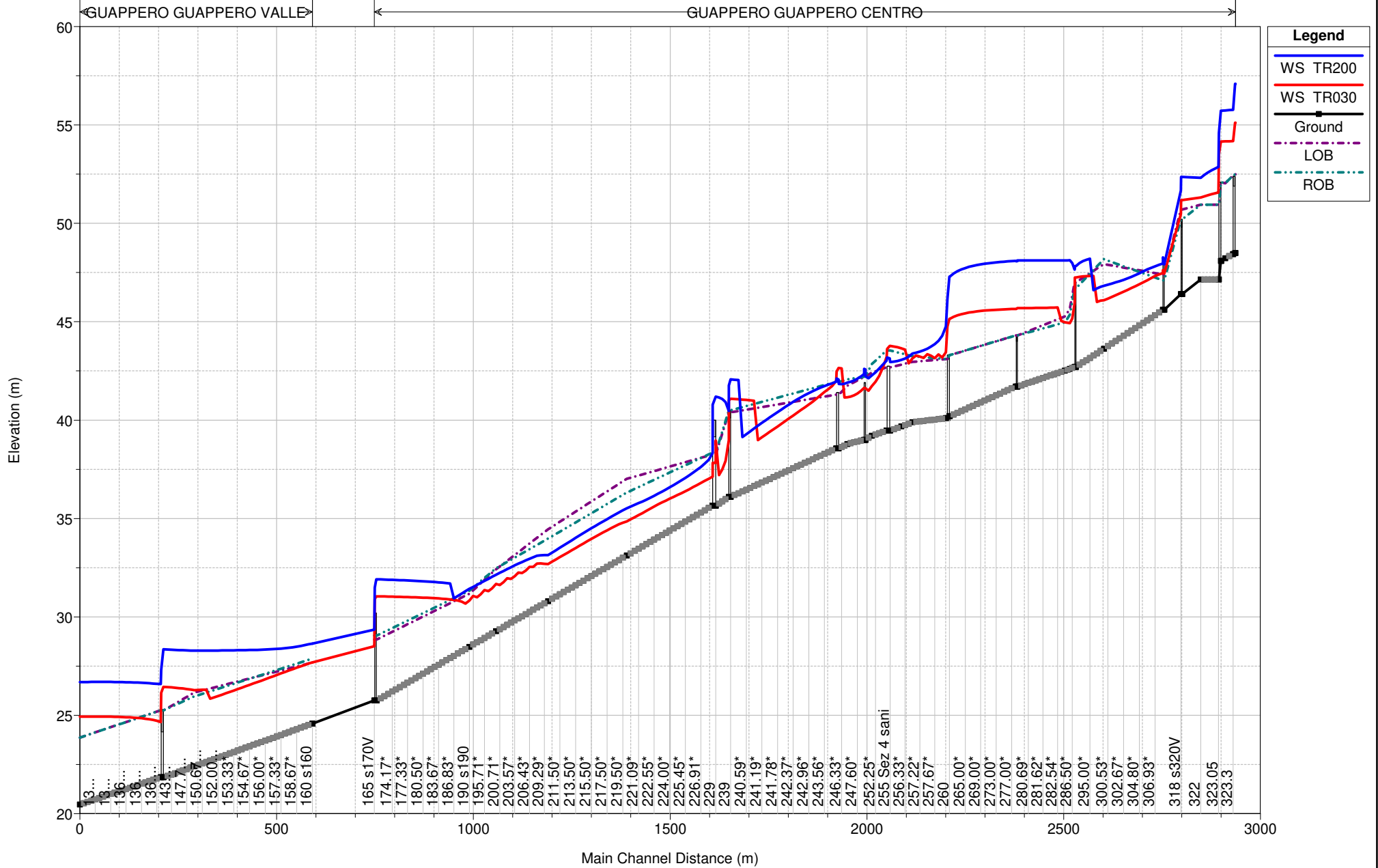


HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

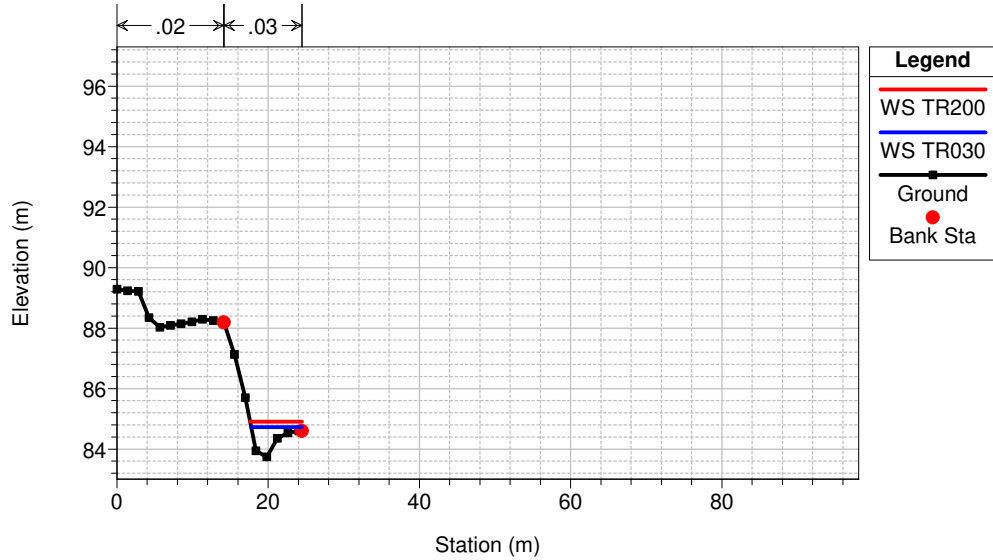
VACCOLI VACCOLI



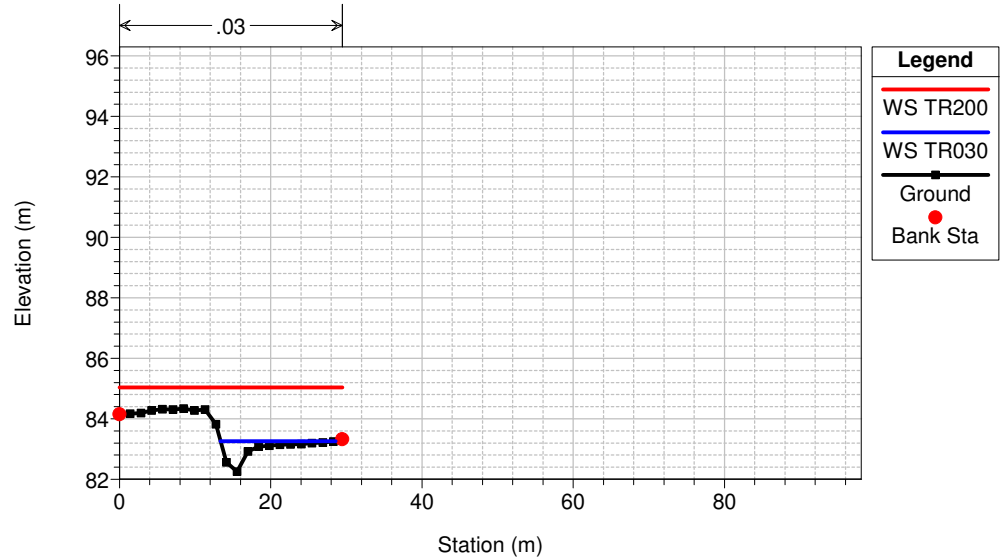
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C



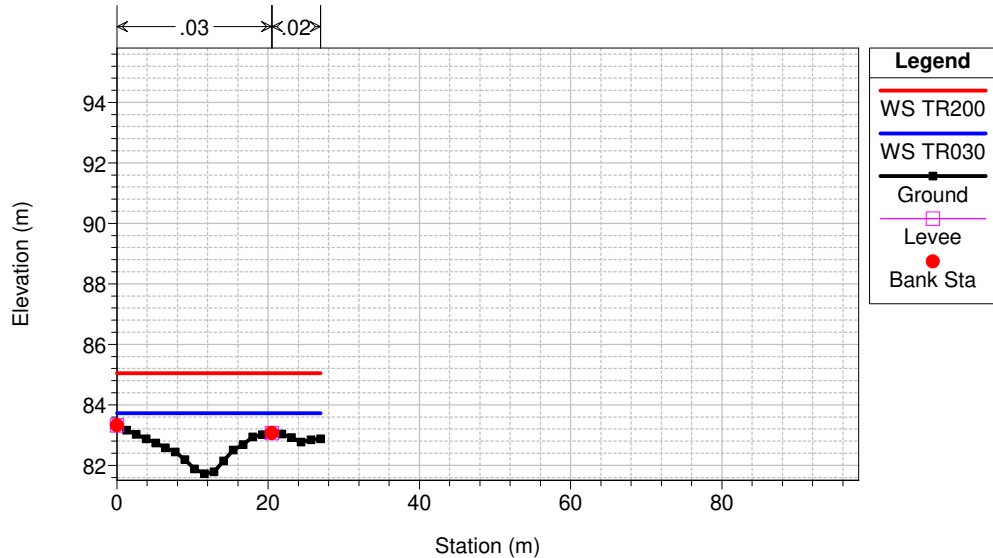
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1595.99



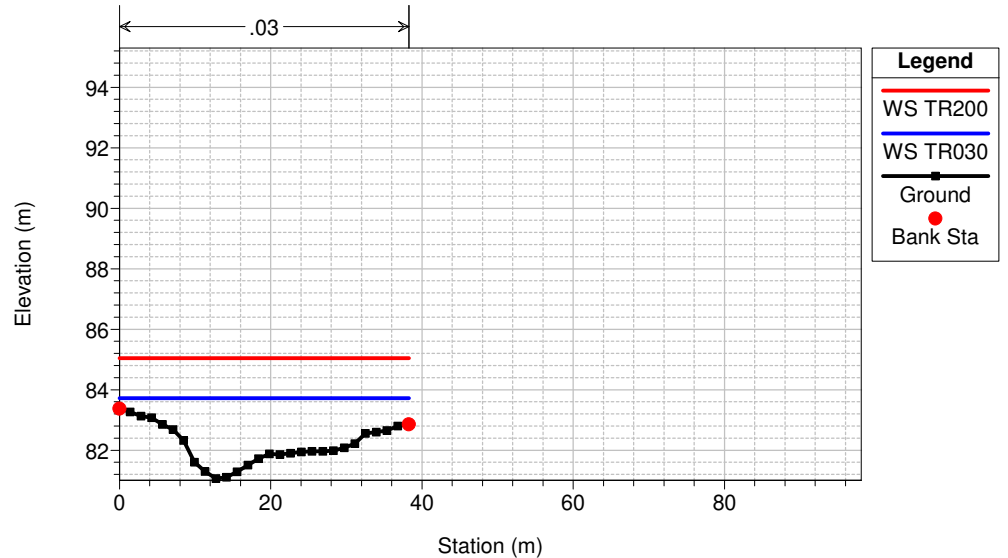
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1572.89



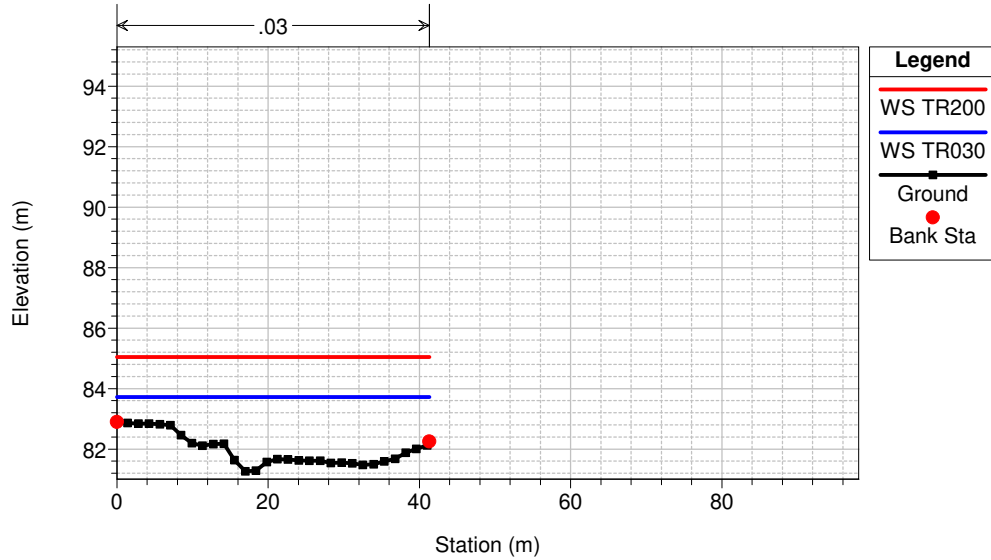
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1545.98



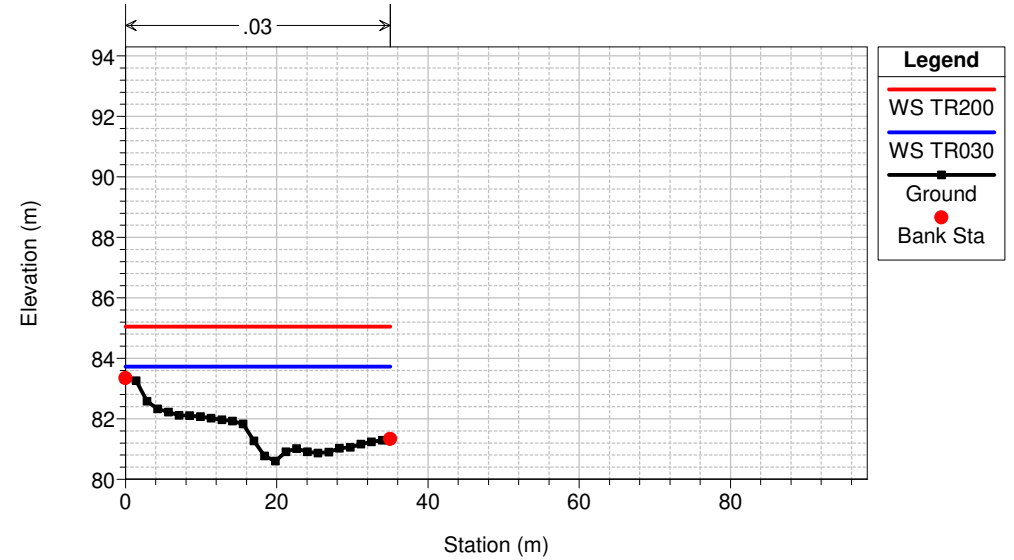
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1514.33



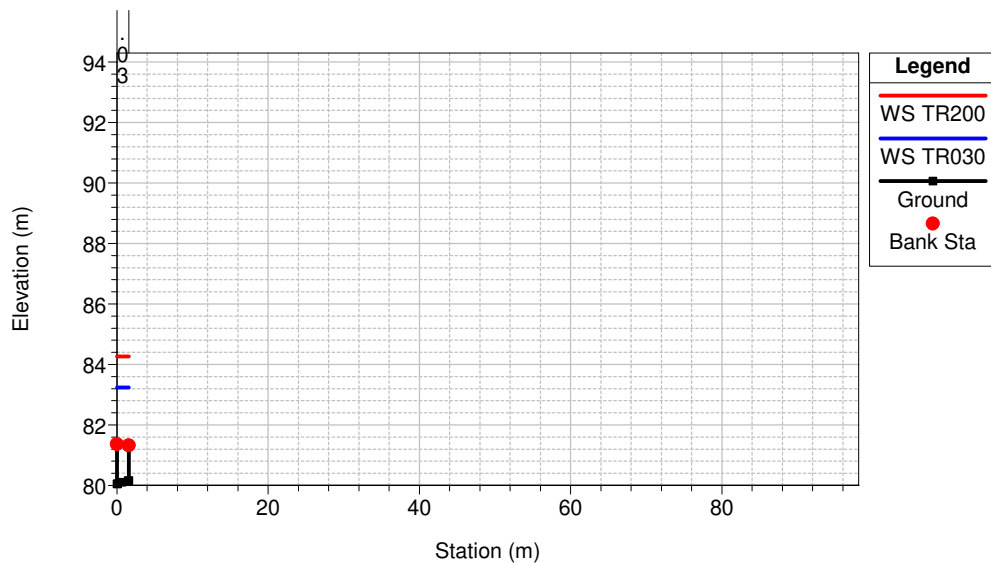
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1502.04



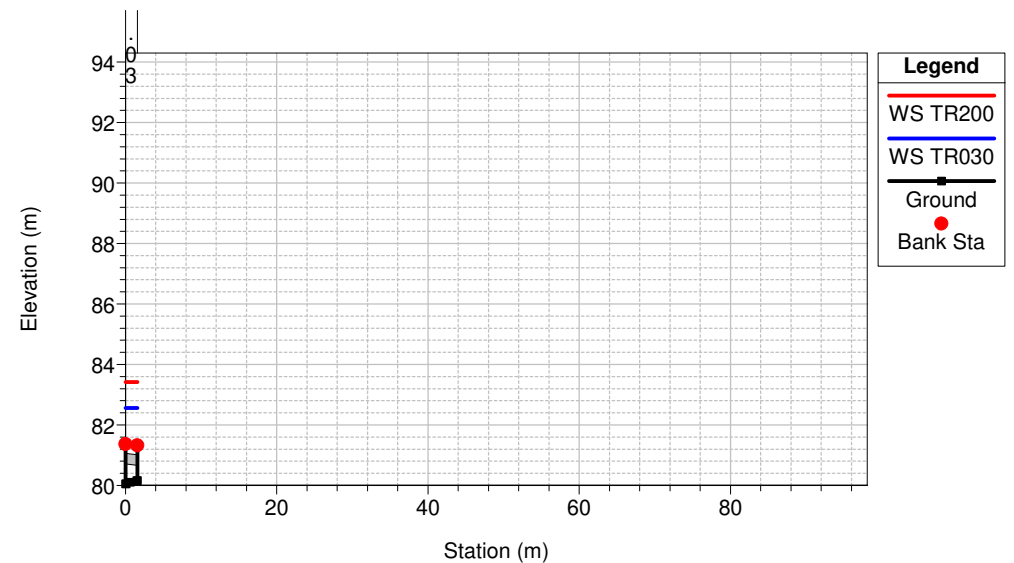
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1484.98



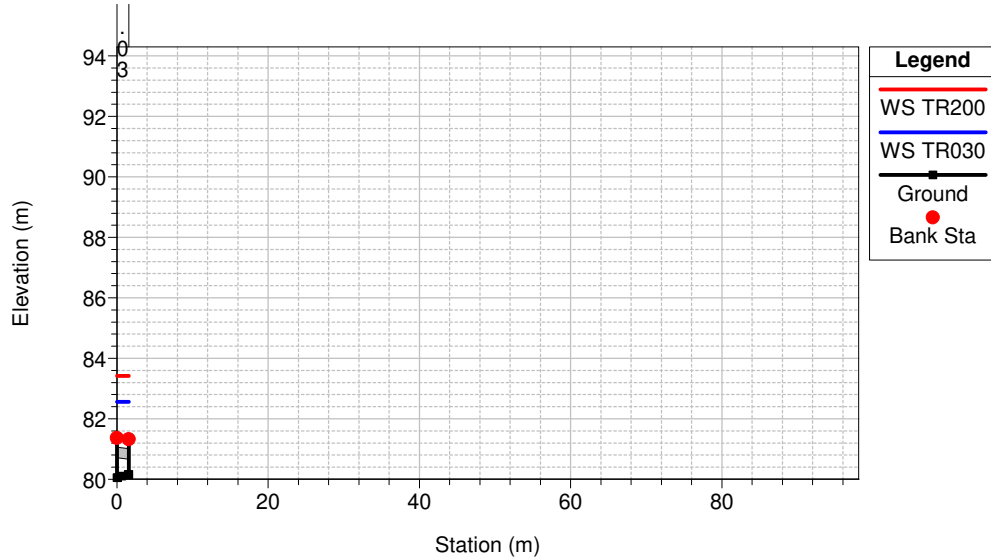
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1479.35 Sez monte ponte 04



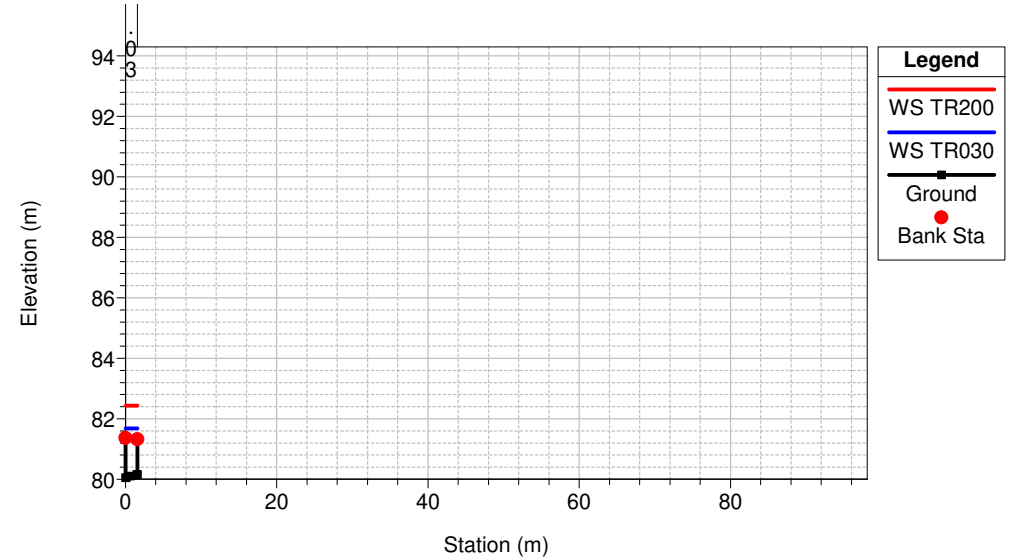
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1478.35 BR Sez 04



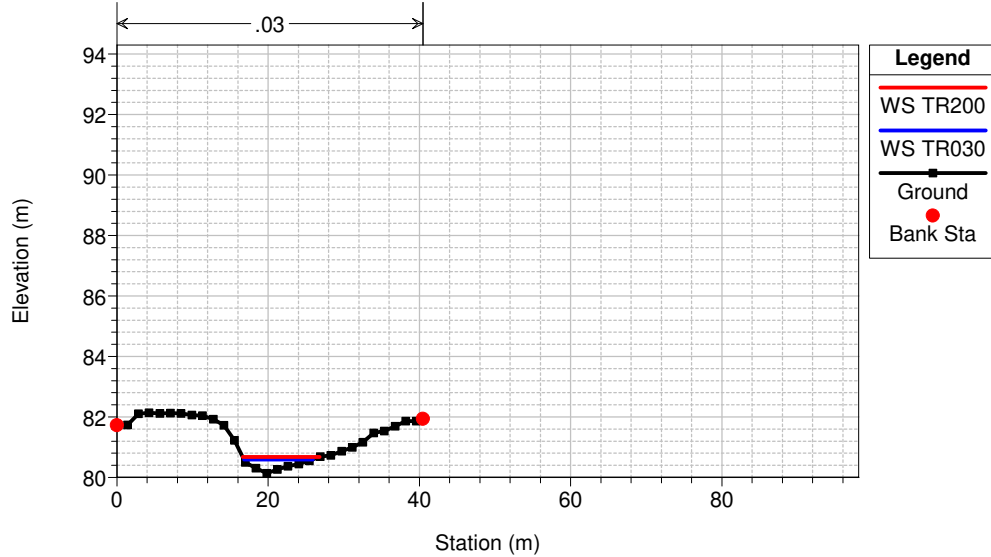
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1478.35 BR SEz 04



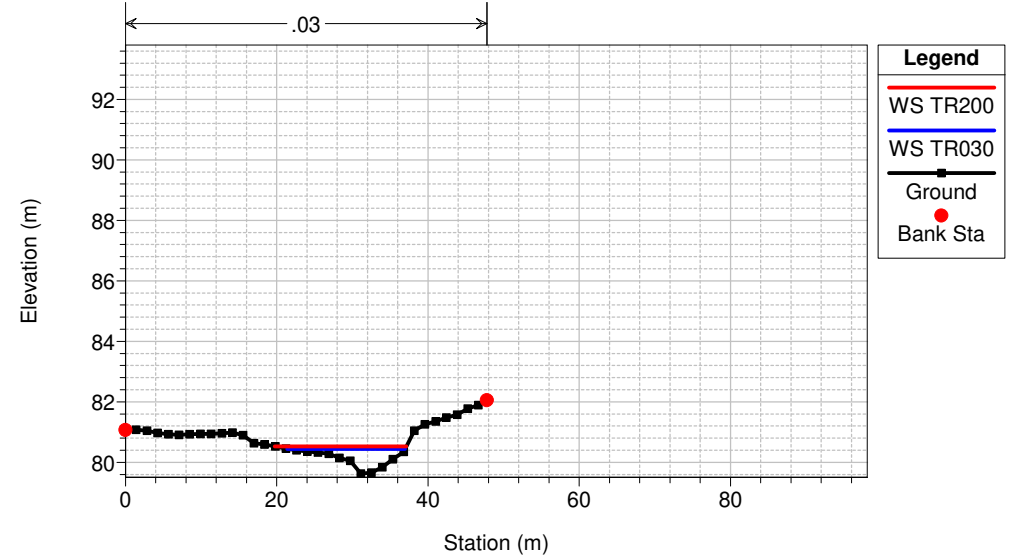
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1474.35 Sez monte ponte 04



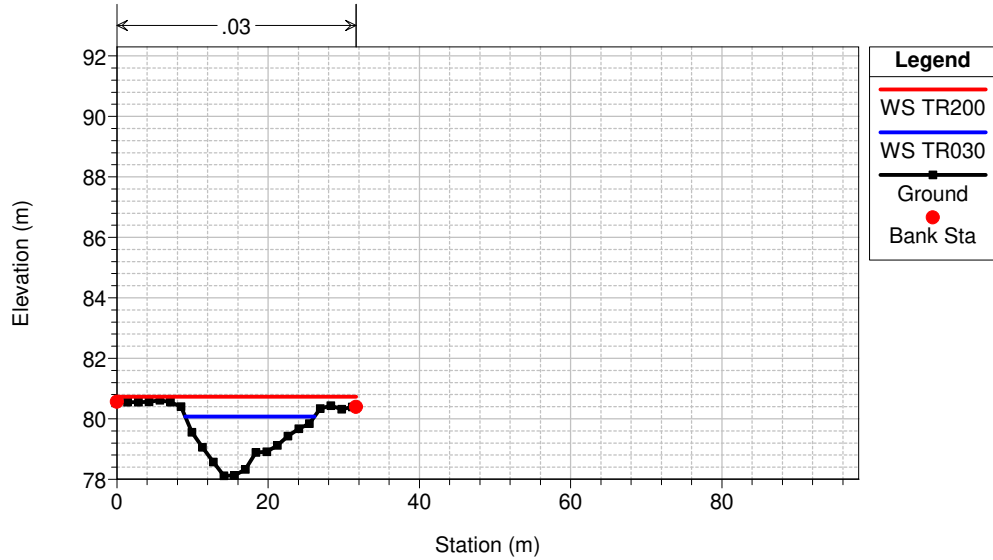
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1469.93



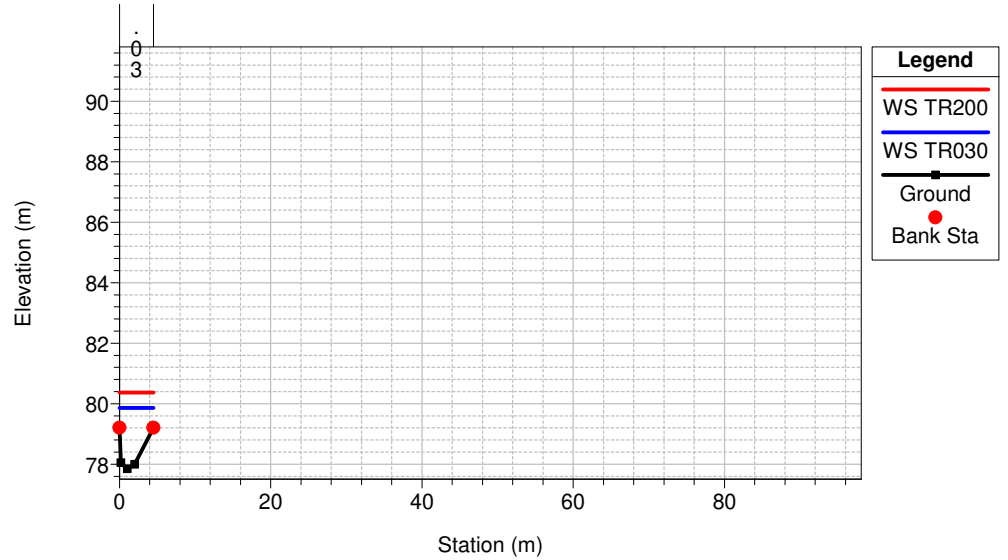
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1447.72



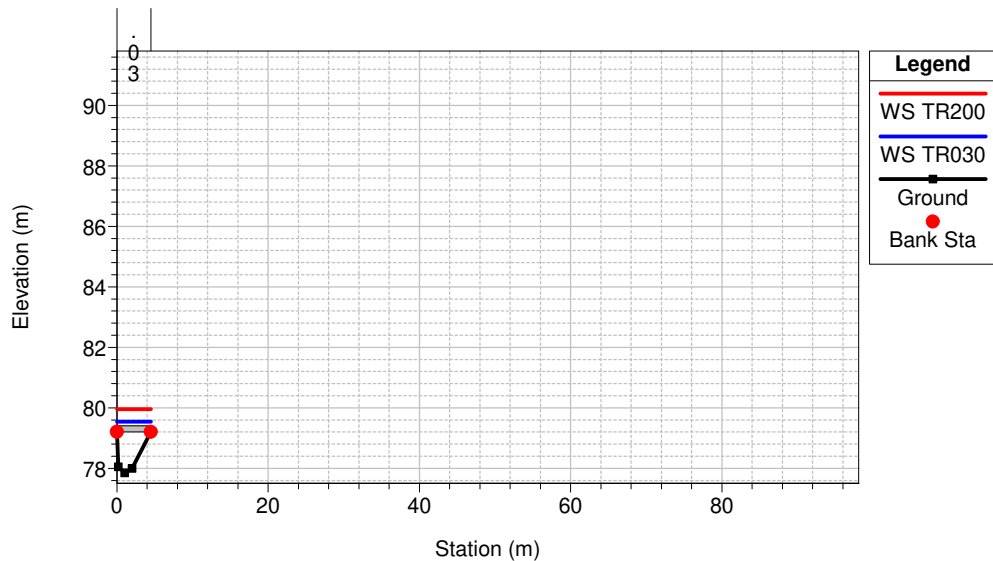
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1422.15



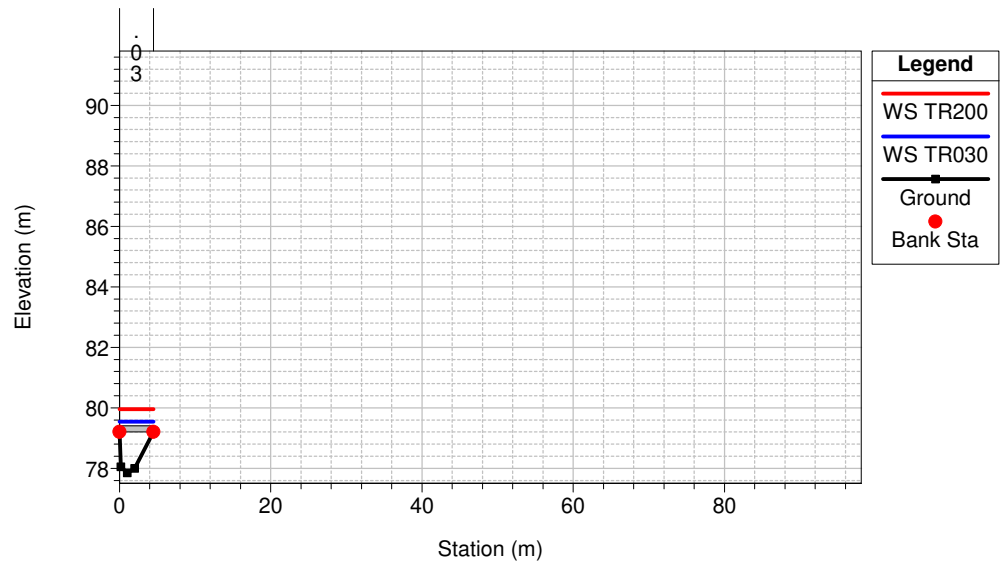
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1415.16 Sez monte ponte 03a



HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1414.16 BR Sez 03a



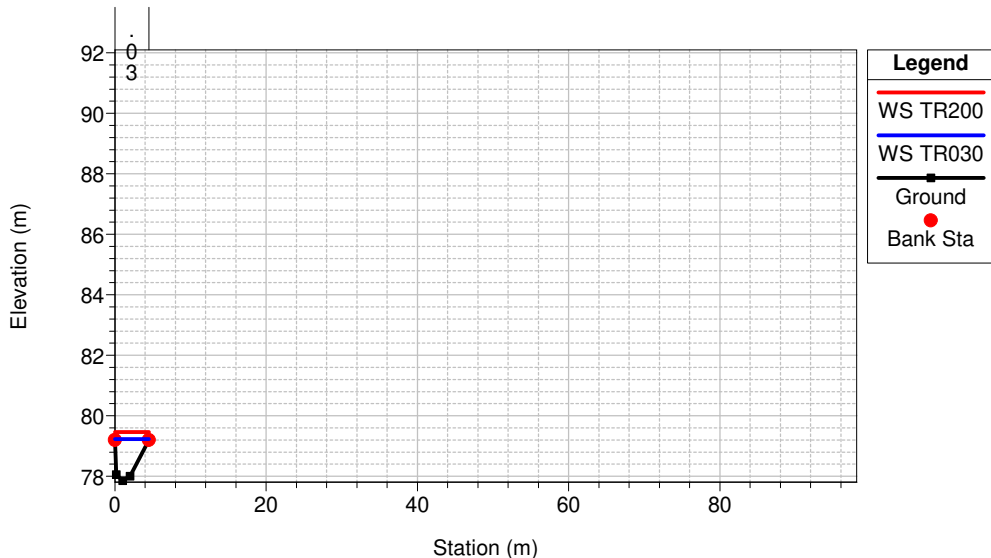
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1414.16 BR Sez 03a



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

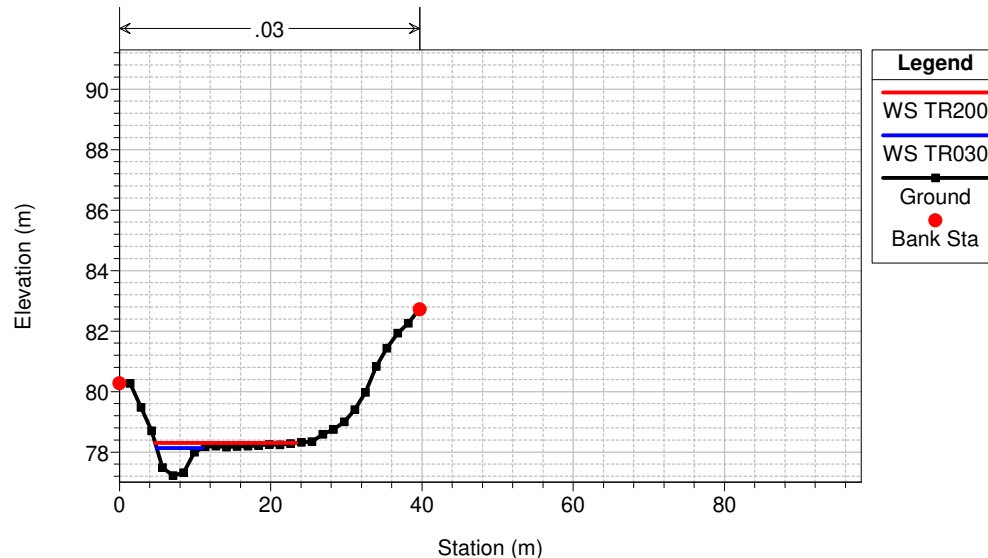
River = GUAPPERINO Reach = GUAPPERINO RS = 1410.4 Sez valle ponte 03a



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

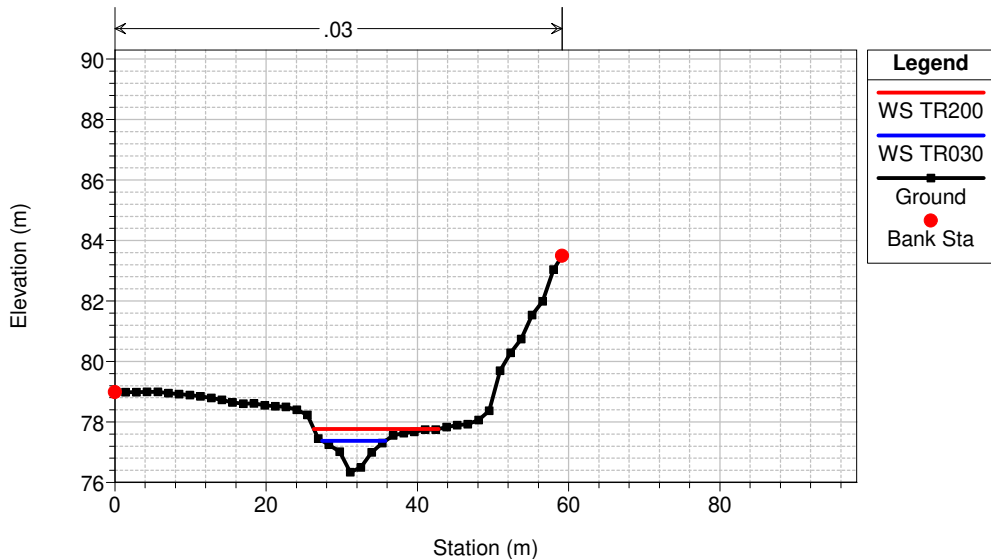
River = GUAPPERINO Reach = GUAPPERINO RS = 1381.83



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

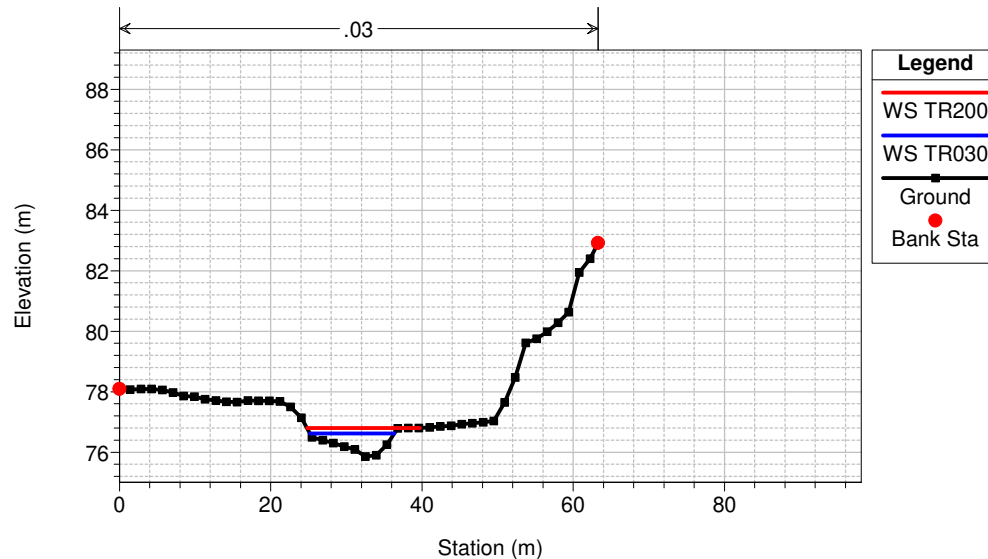
River = GUAPPERINO Reach = GUAPPERINO RS = 1355.98



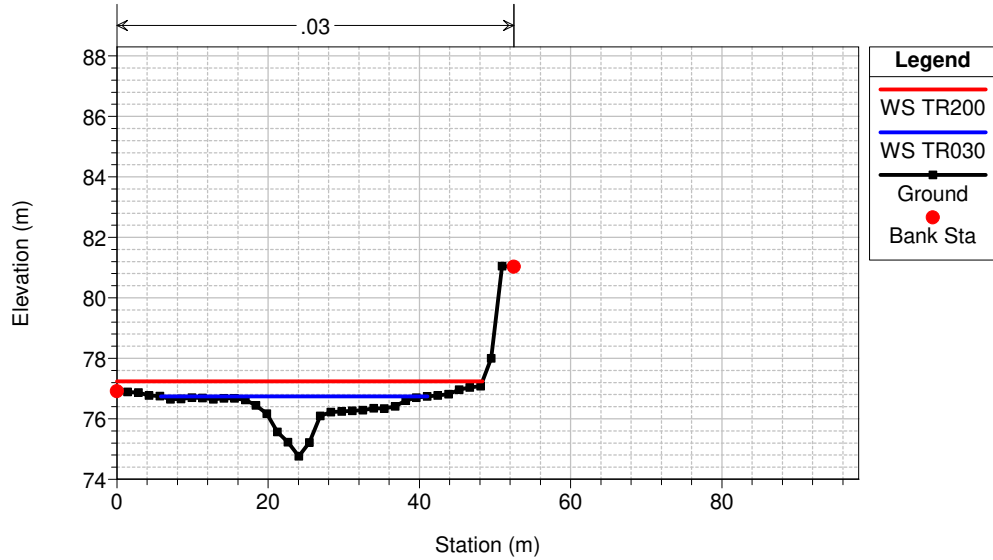
HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

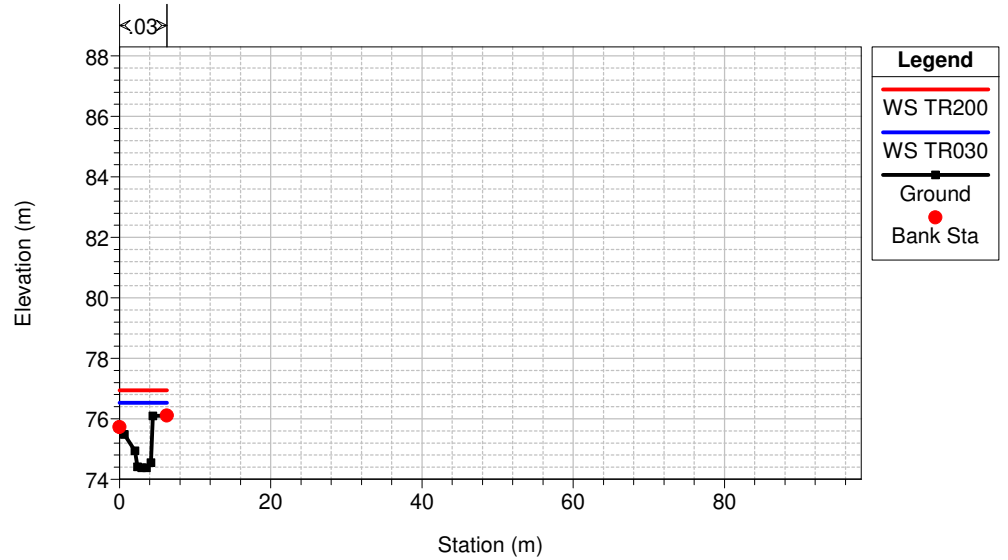
River = GUAPPERINO Reach = GUAPPERINO RS = 1325.35



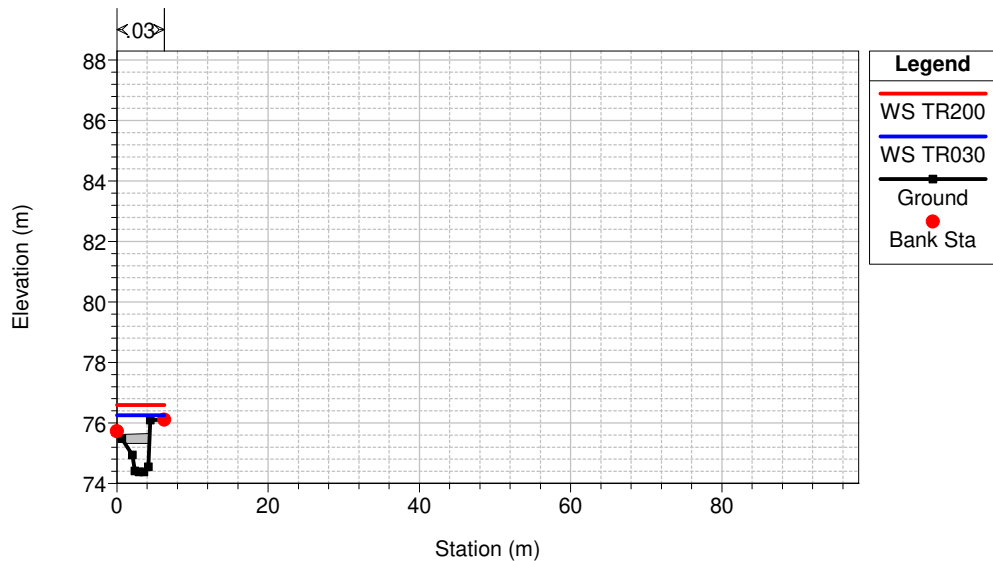
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1289.68



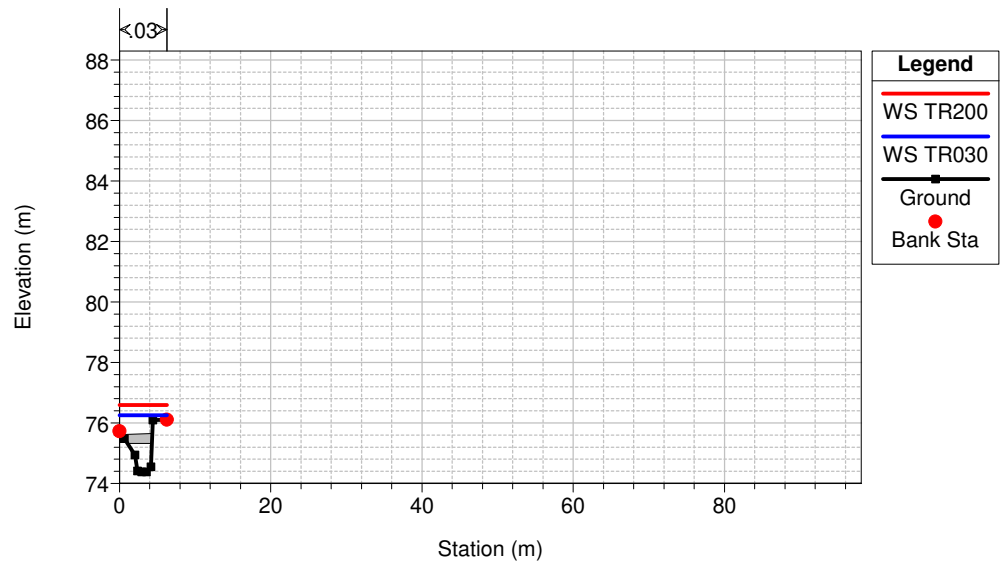
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1263.99 Sez monte ponte 03



HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1262.99 BR Sez 03



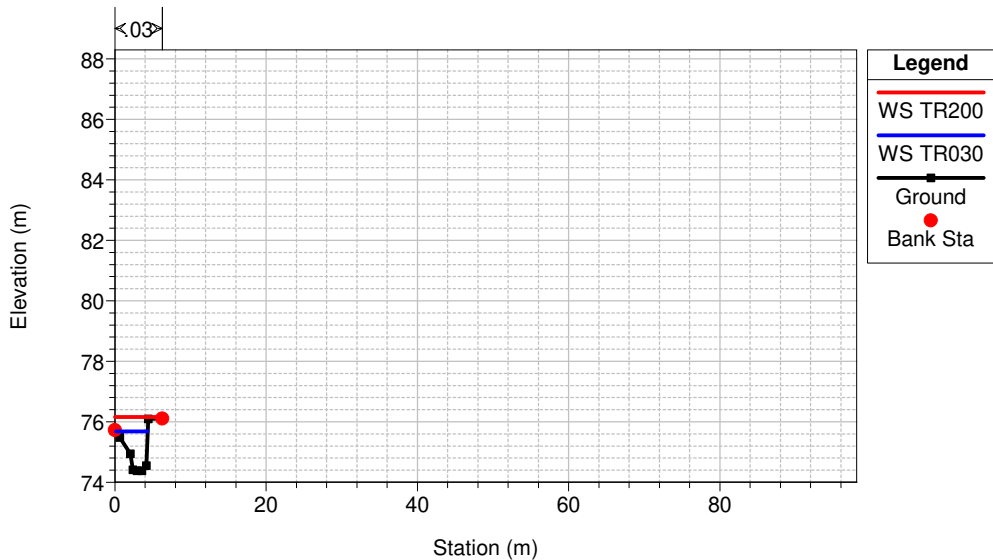
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1262.99 BR Sez 03



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

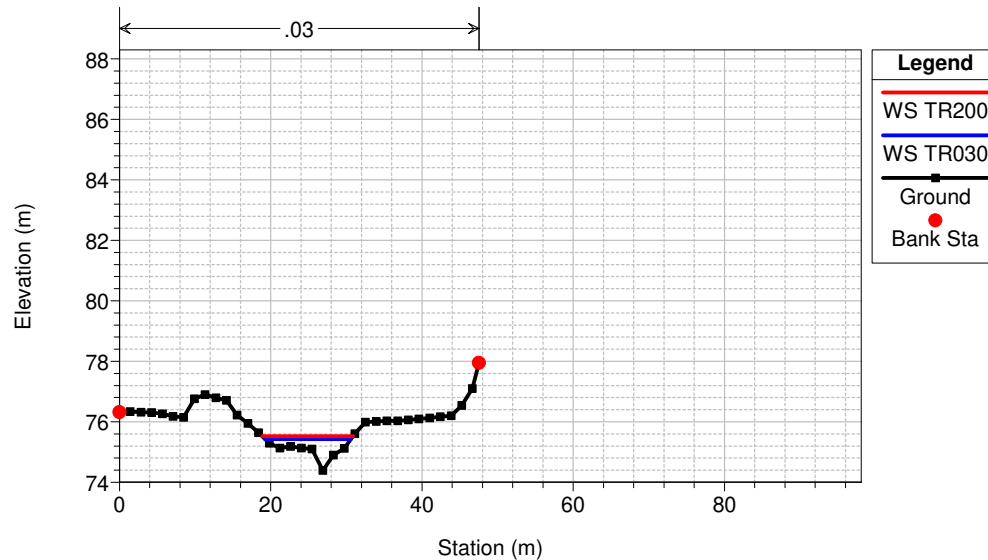
River = GUAPPERINO Reach = GUAPPERINO RS = 1259.39 Sez valle ponte 03



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

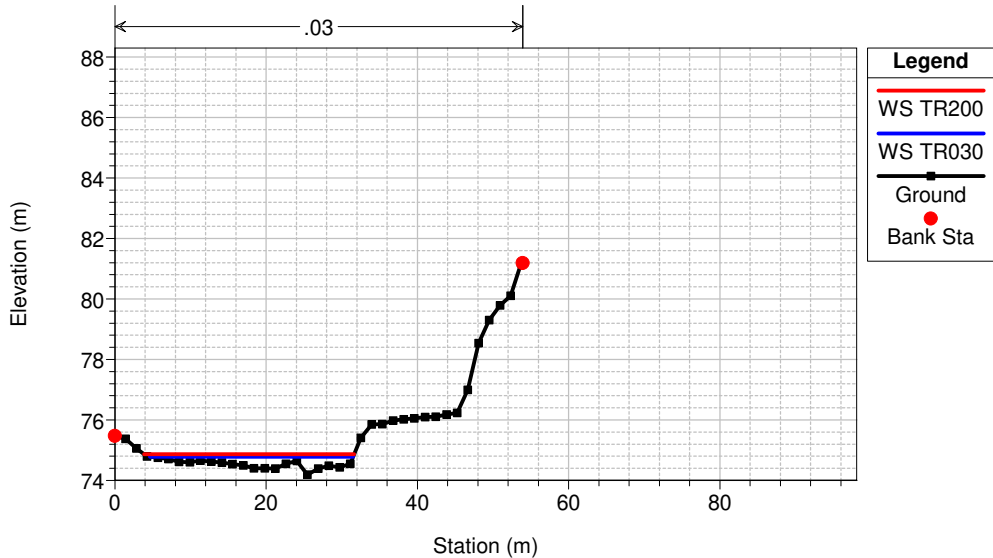
River = GUAPPERINO Reach = GUAPPERINO RS = 1244.58



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

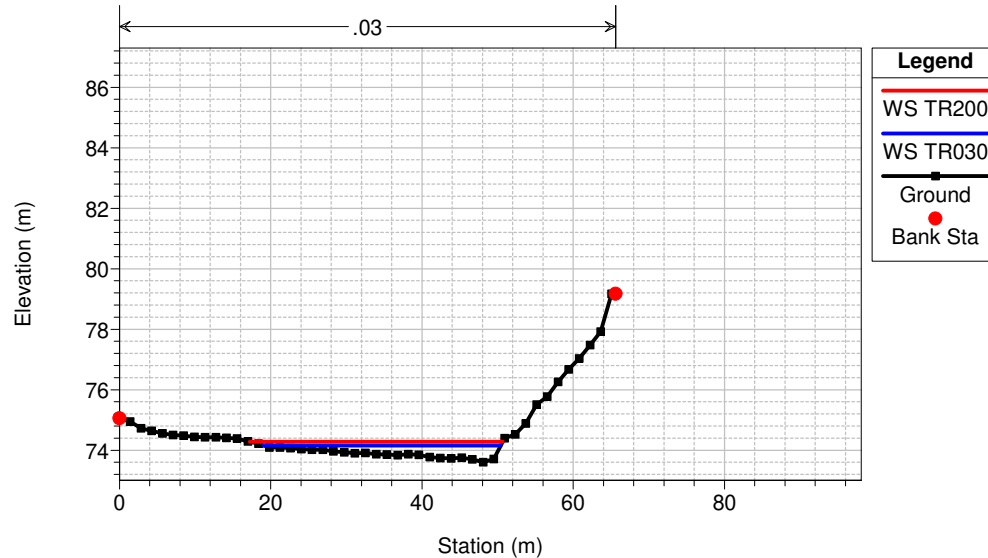
River = GUAPPERINO Reach = GUAPPERINO RS = 1215.38



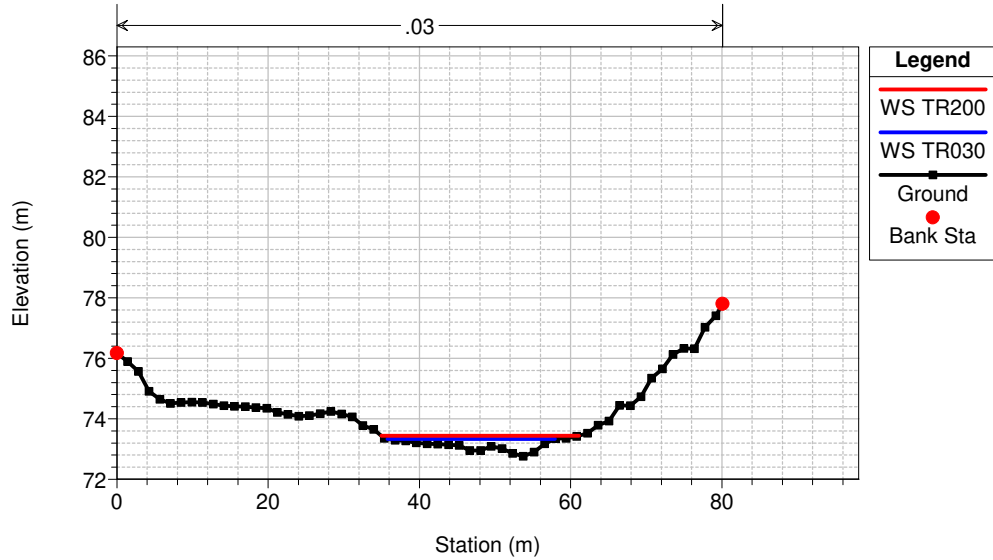
HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

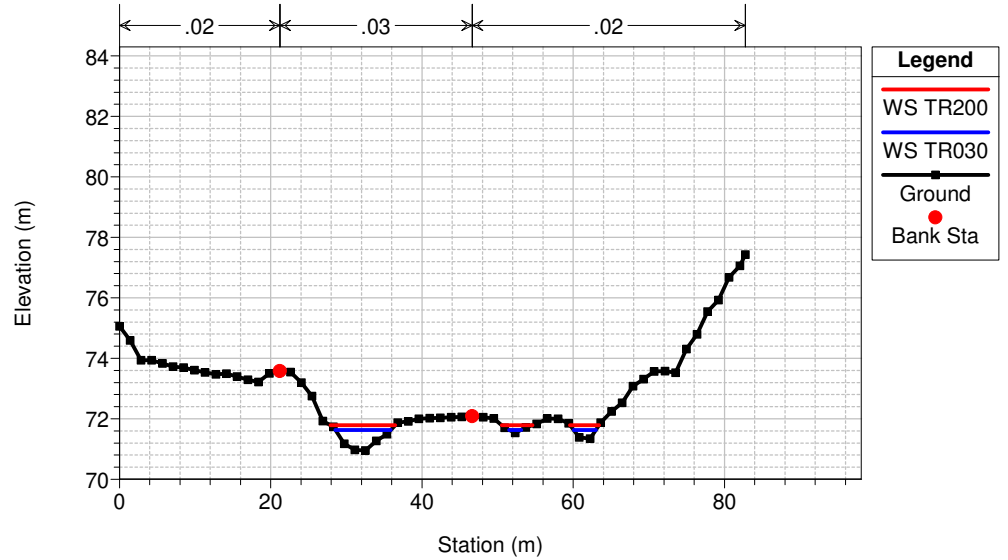
River = GUAPPERINO Reach = GUAPPERINO RS = 1172.54



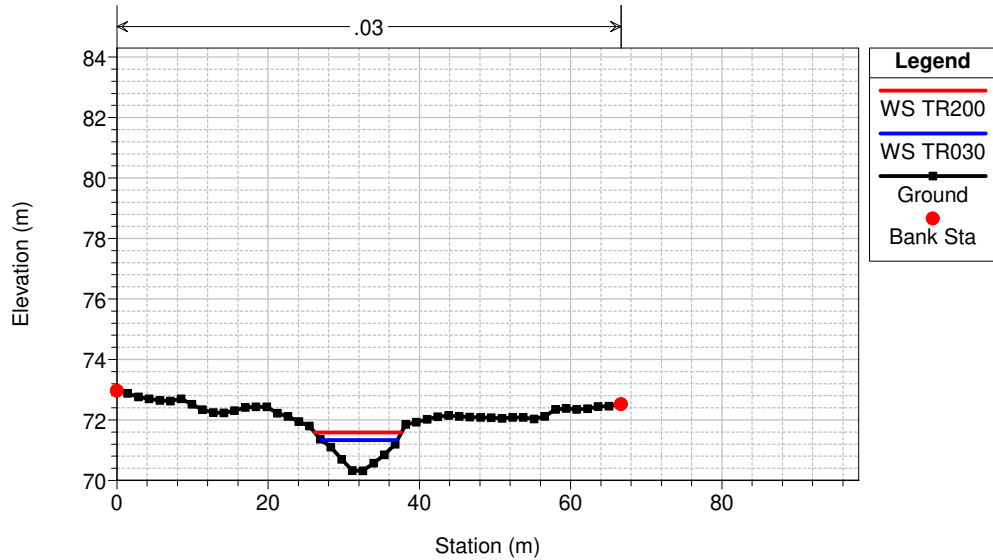
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1144.35



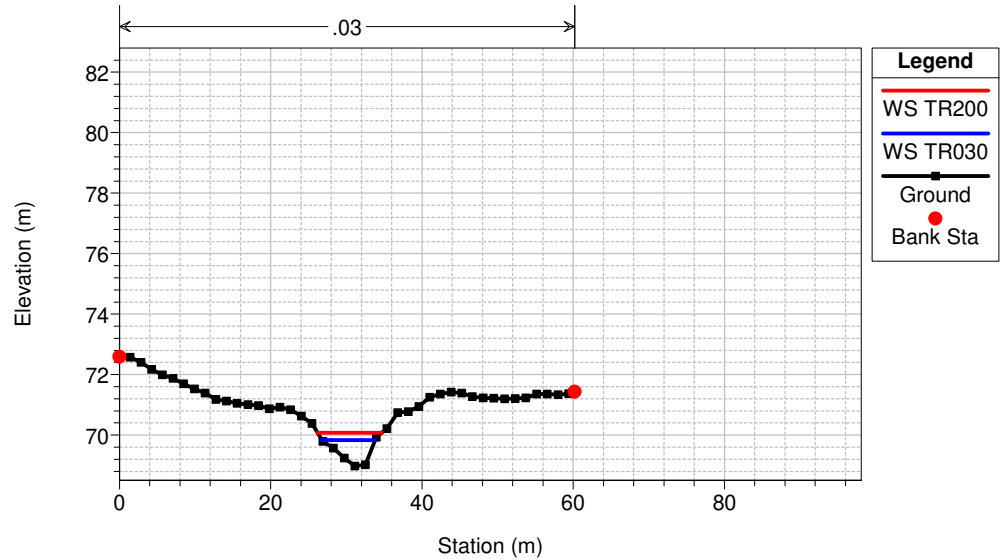
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1112.43



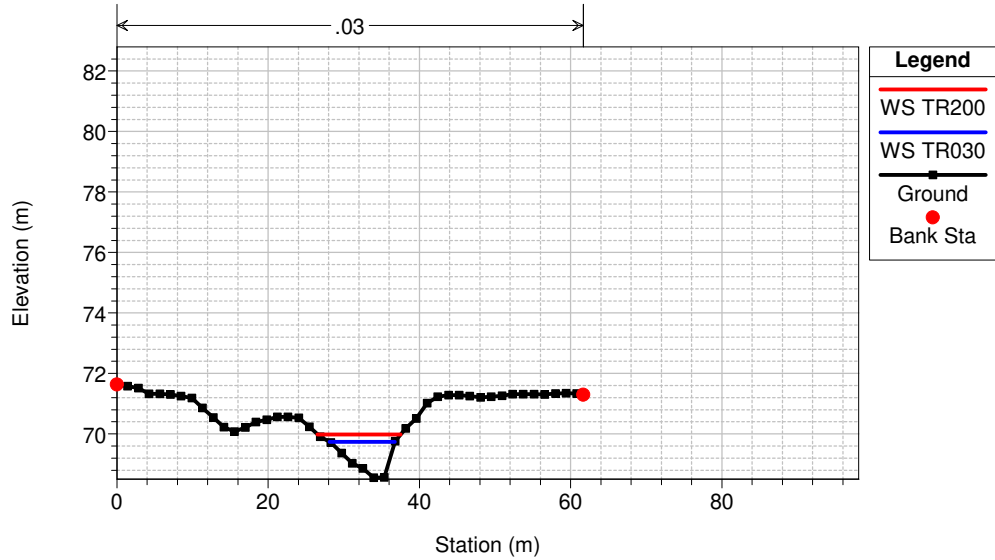
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1079.39



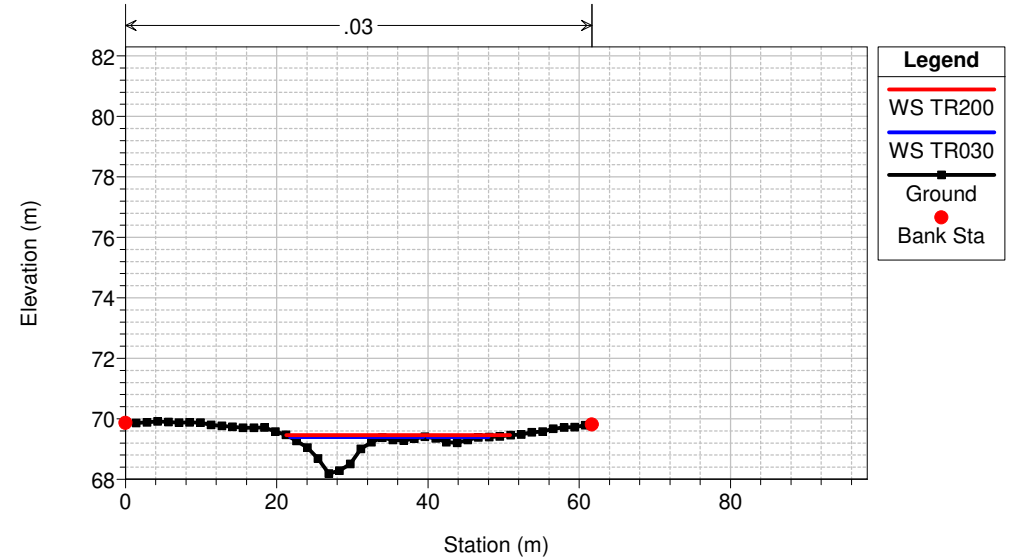
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1031.65



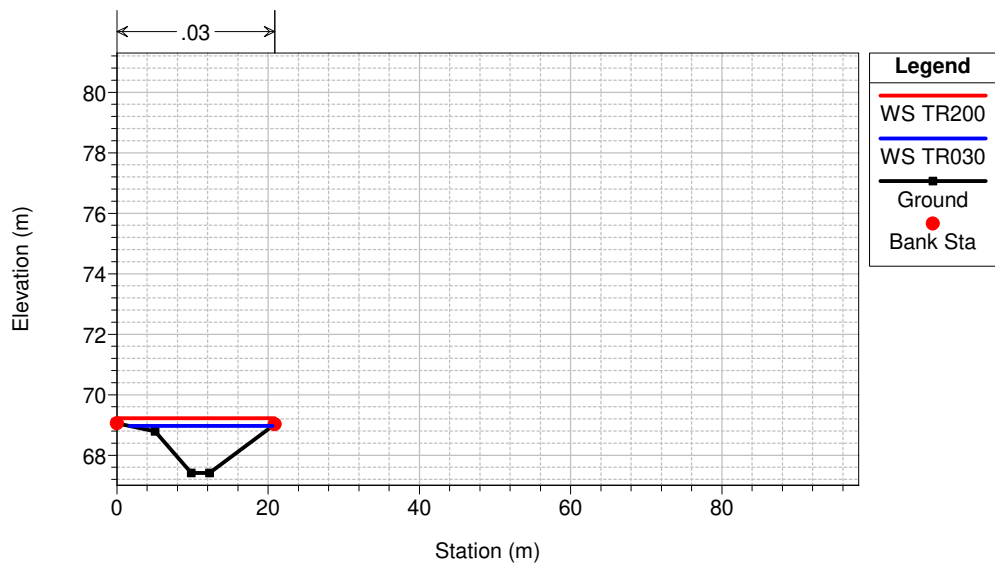
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 1001.86



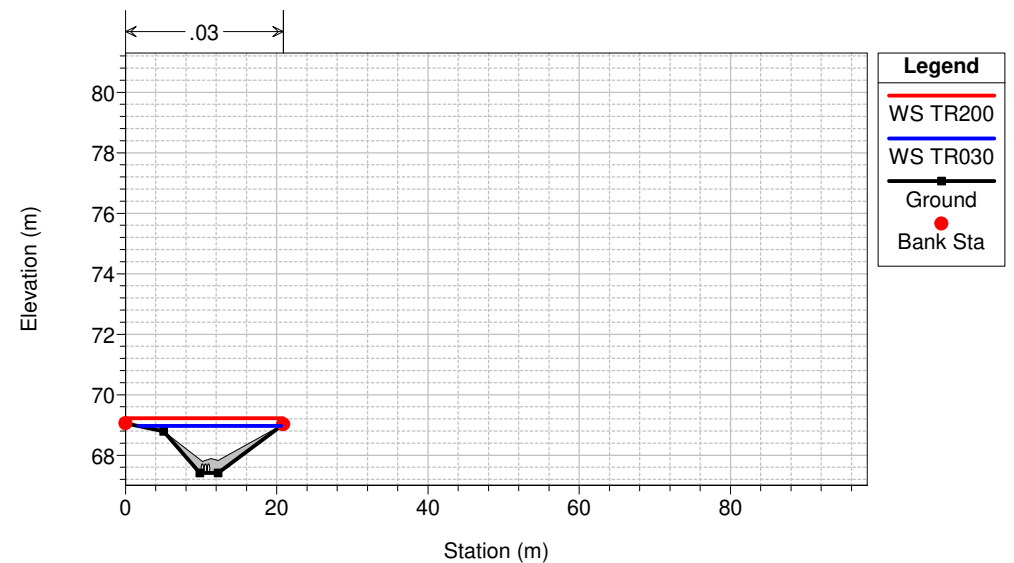
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 962.21



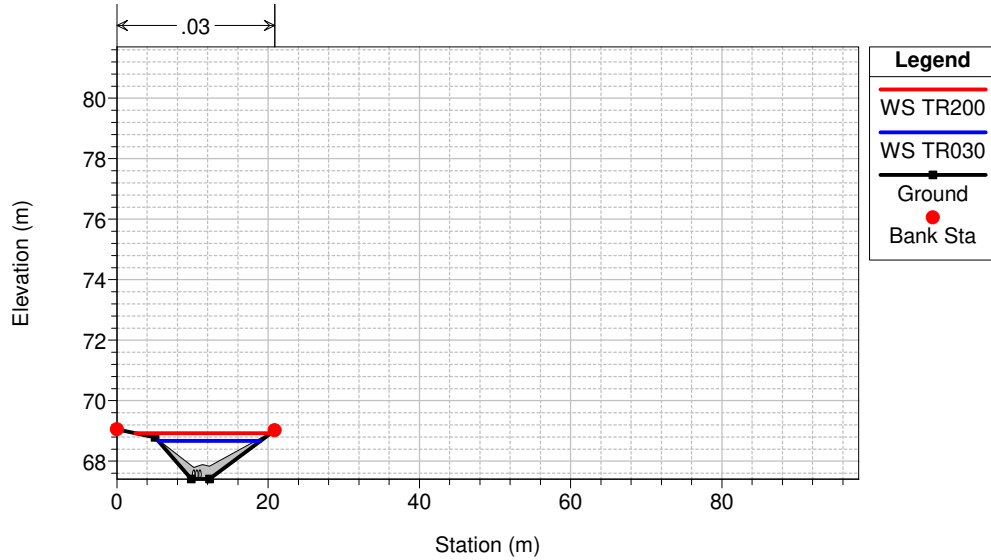
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 941.21 Sez monte guado 02



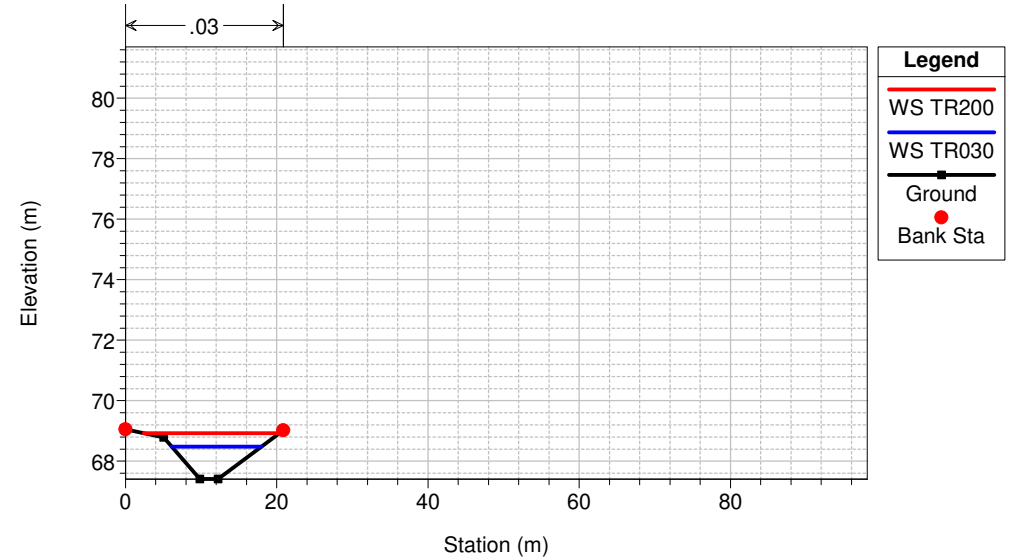
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 940.21 Culv Sez 02



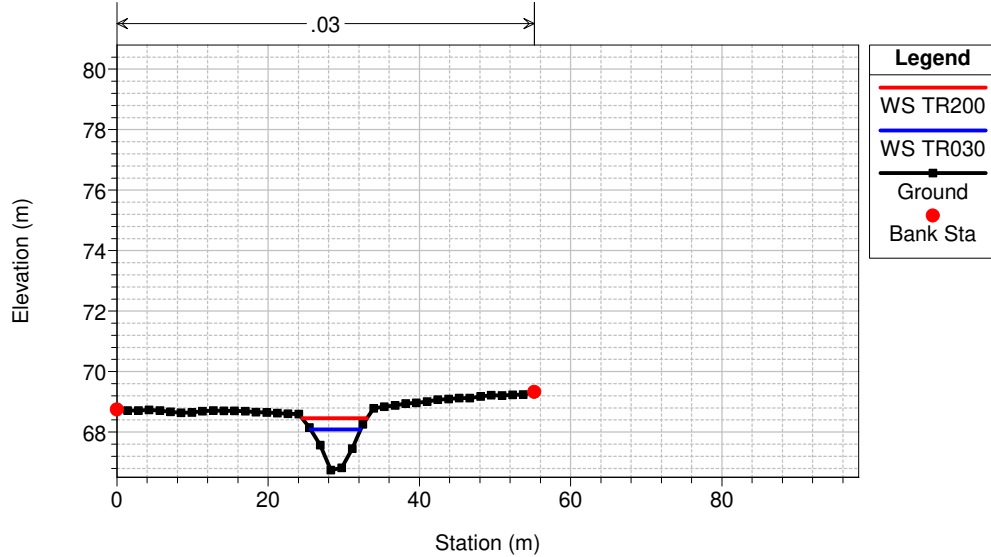
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 940.21 Culv Sez 02



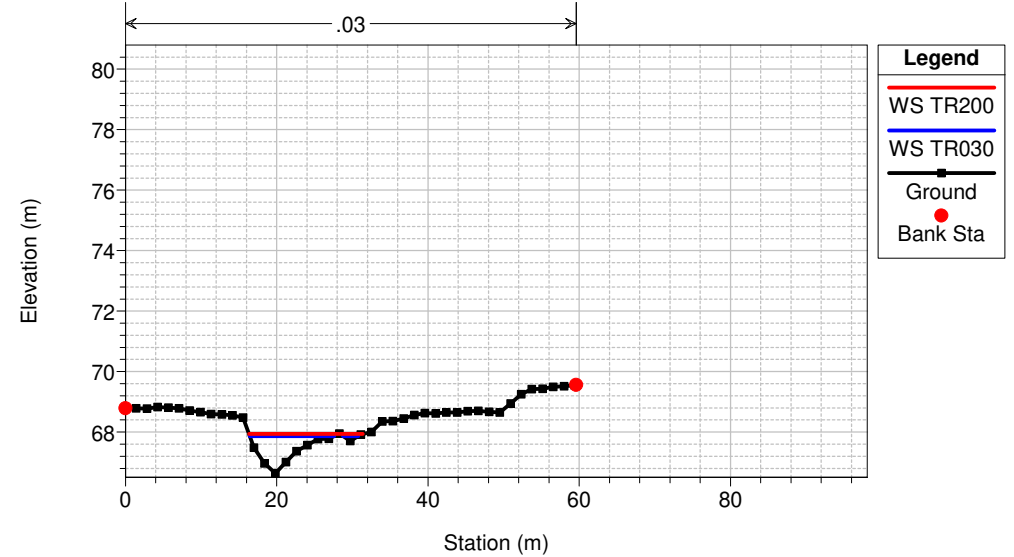
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 936.31 Sez valle guado 02



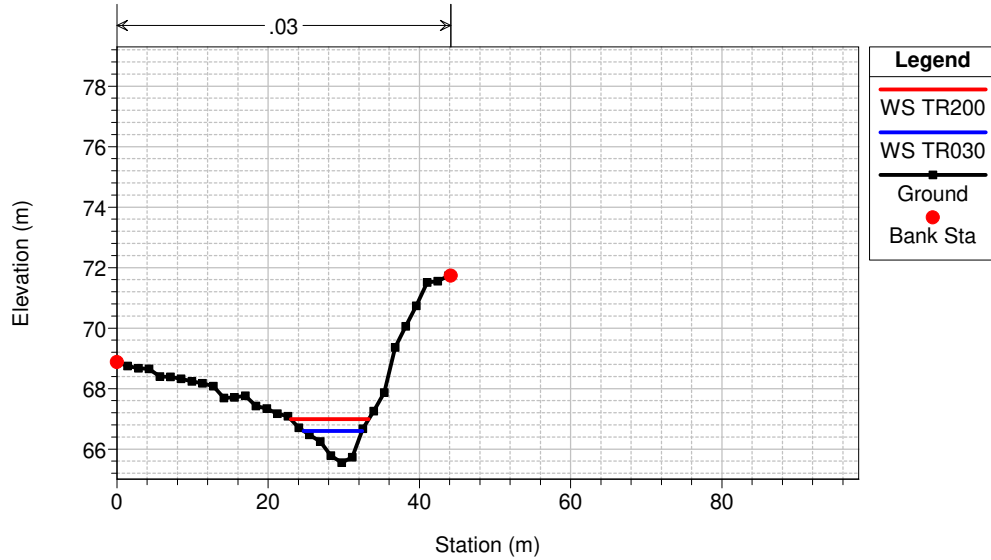
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 914.84



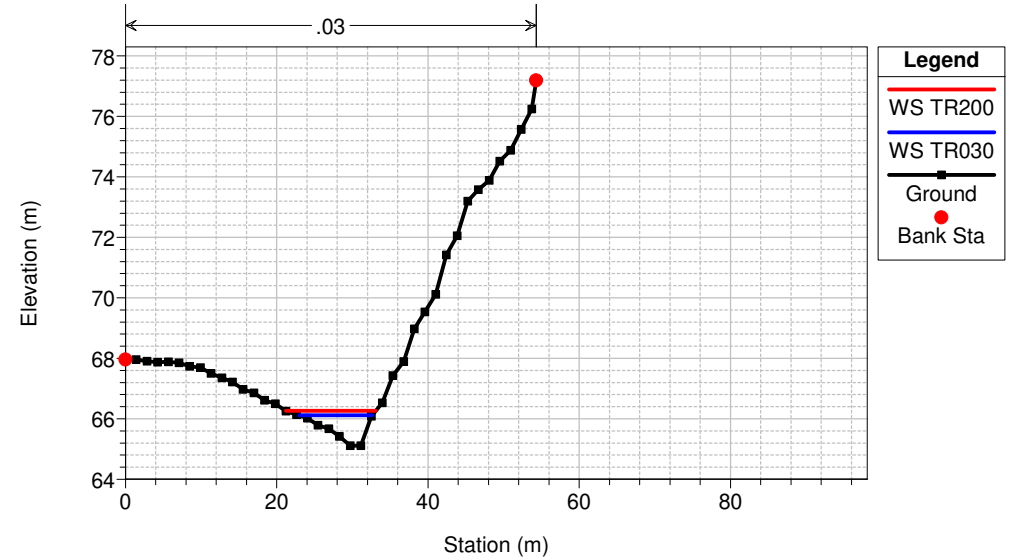
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 891.01



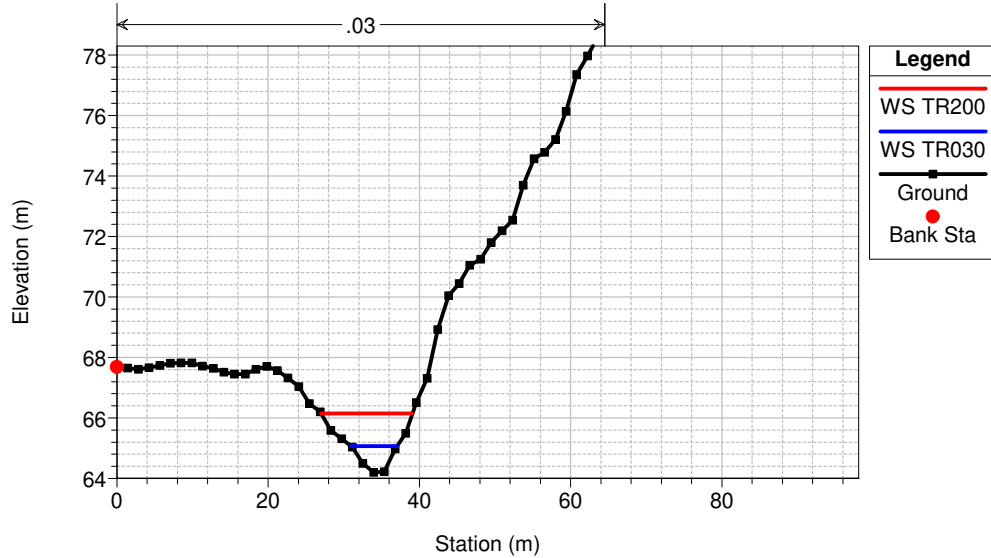
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 833.39



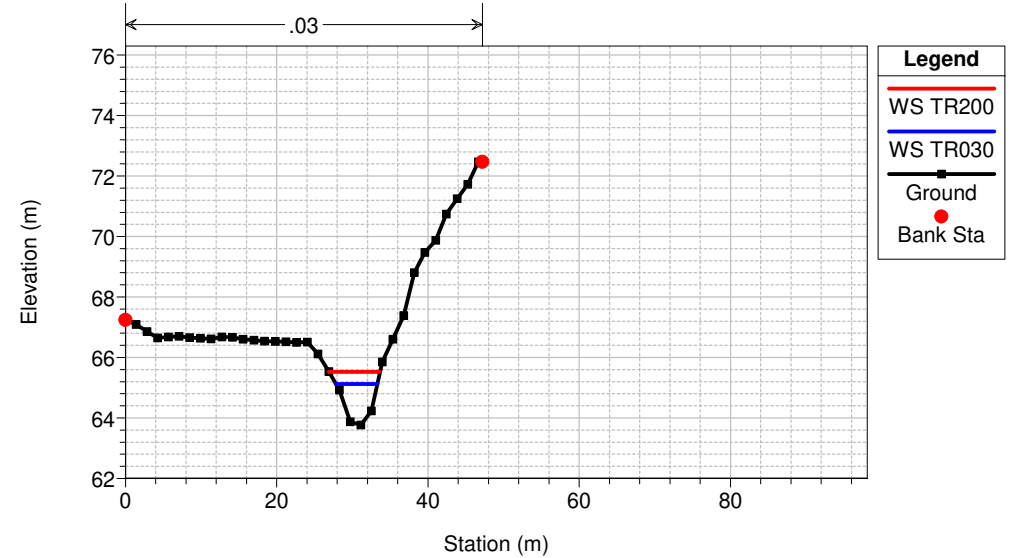
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 804.56



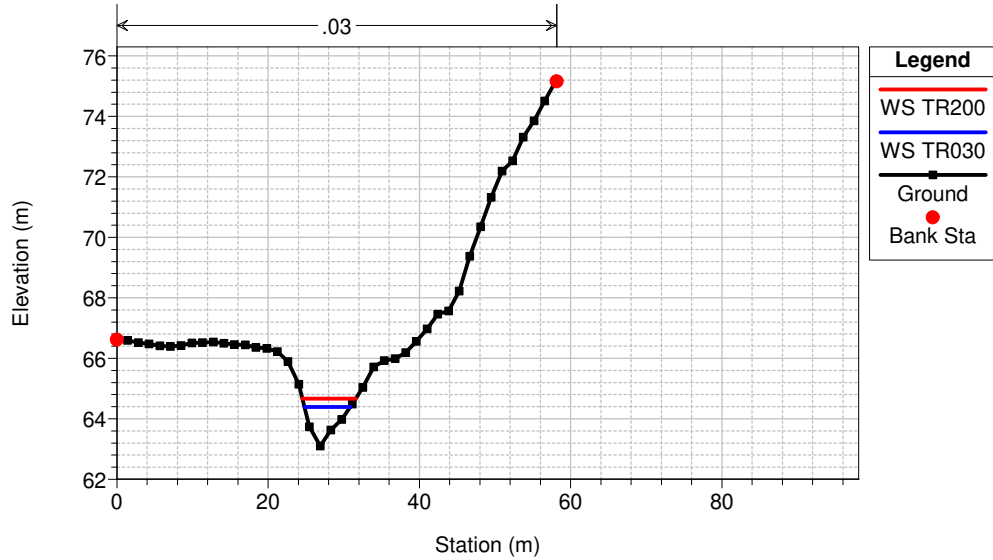
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 786.06



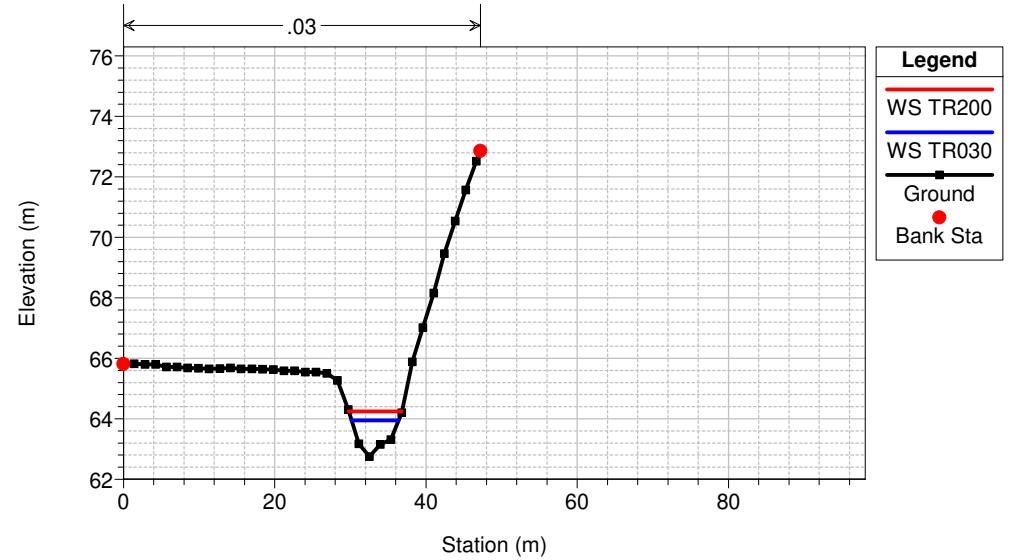
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 745.84



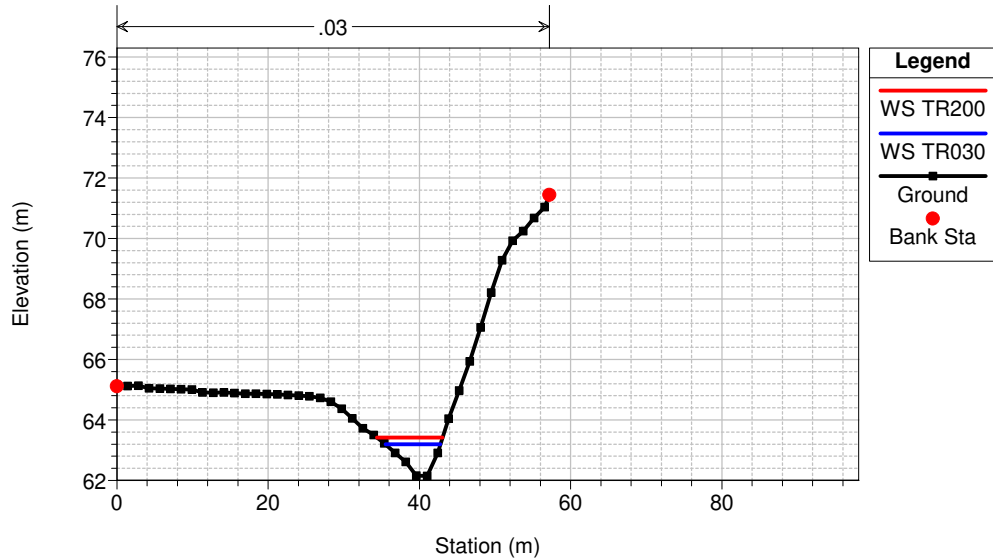
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 709.66



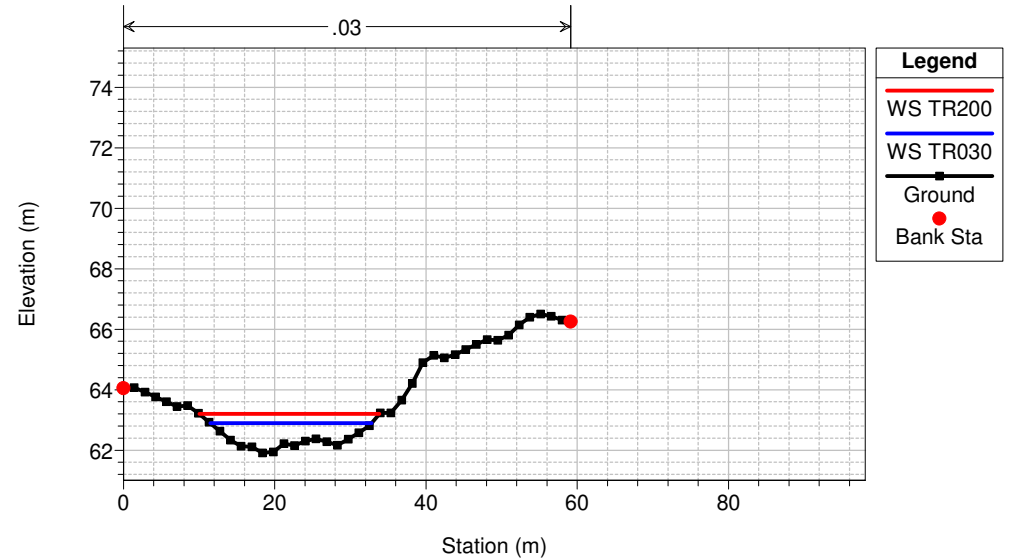
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 681.42



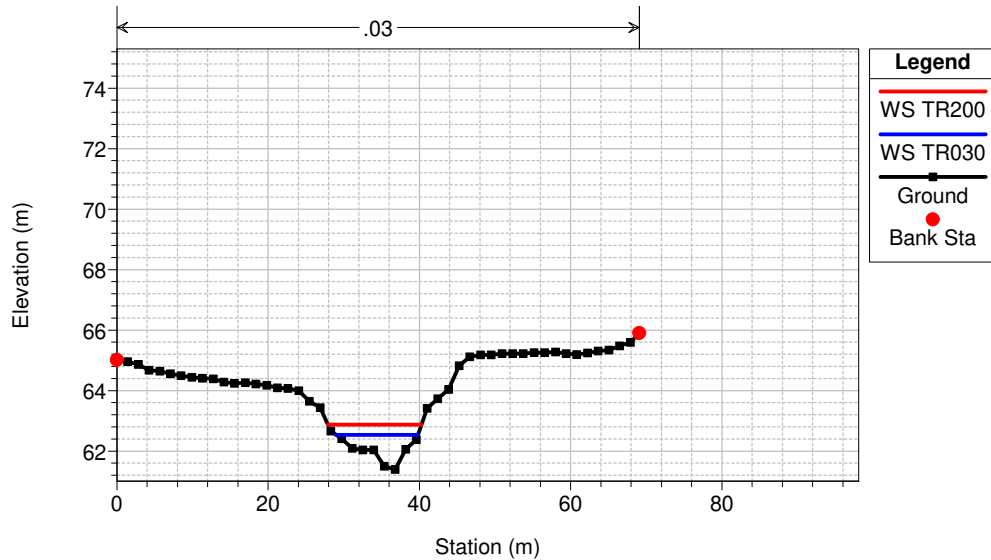
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 641.30



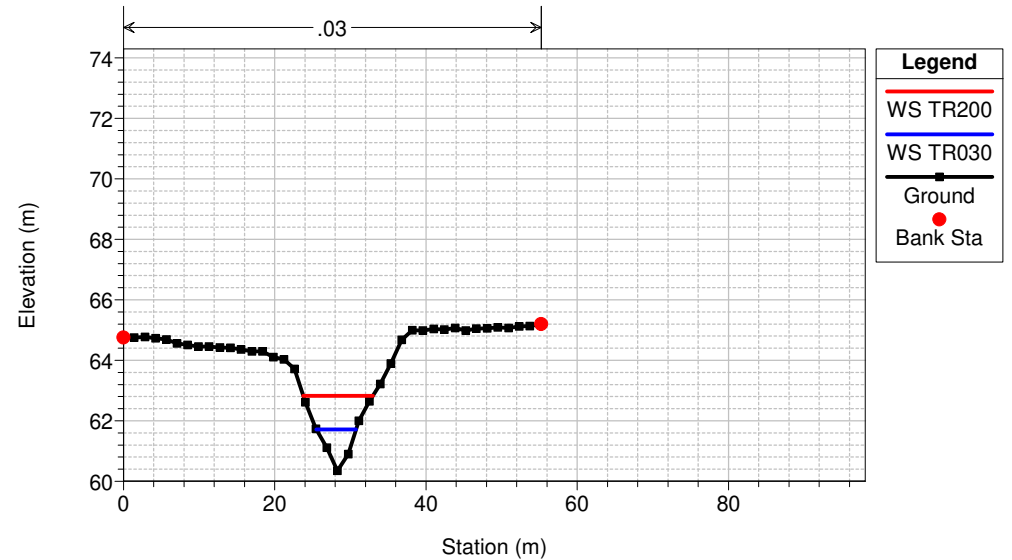
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 596.26



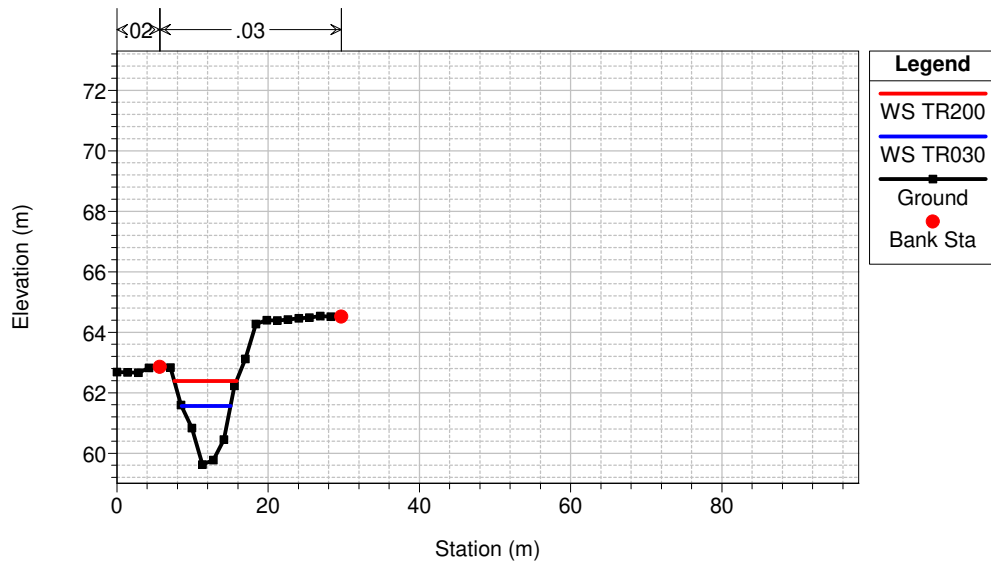
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 568.71



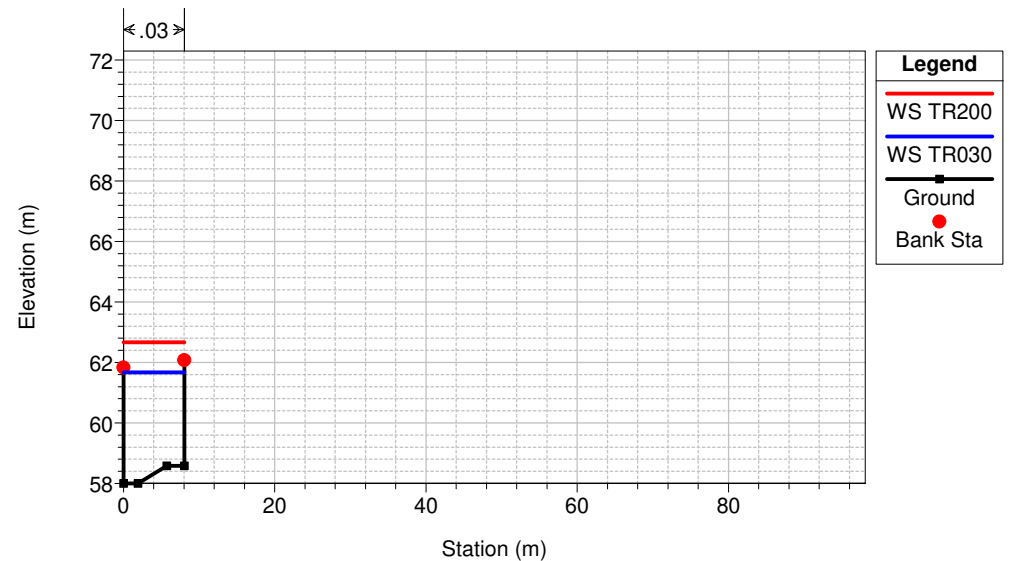
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO RS = 548.40



HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 514.03



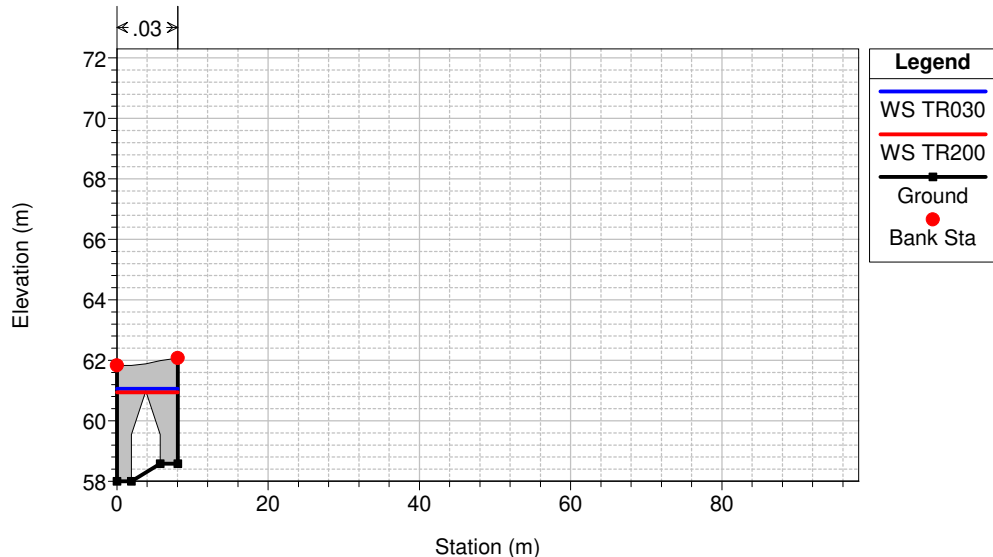
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 501 Sez monte ponte 01



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

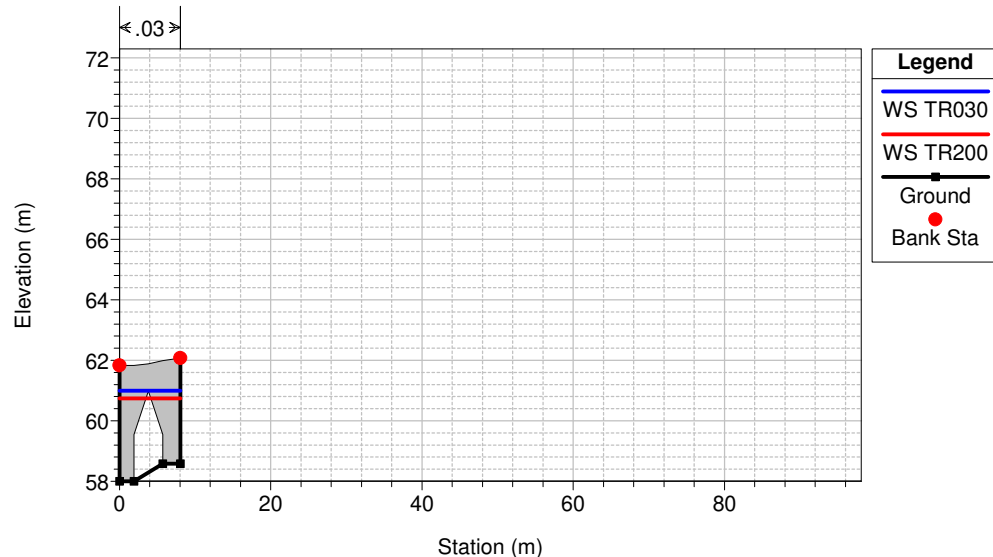
River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 500 BR Sez 01



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

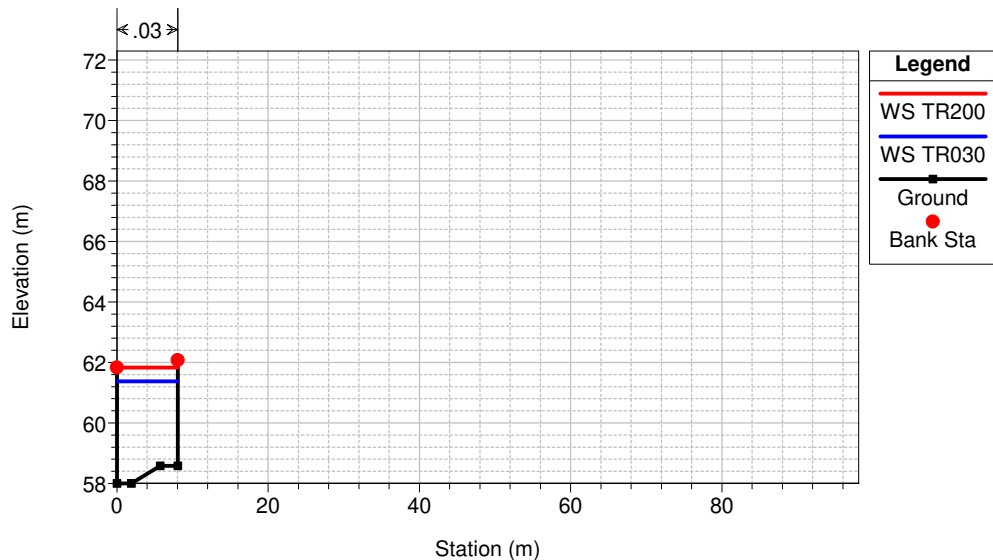
River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 500 BR Sez 01



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

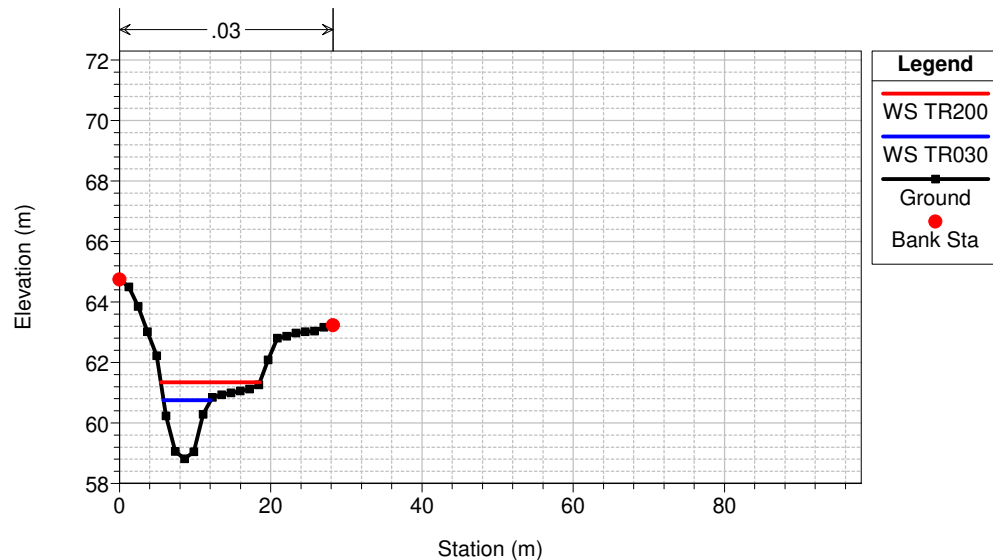
River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 495.4 Sez valle ponte 01



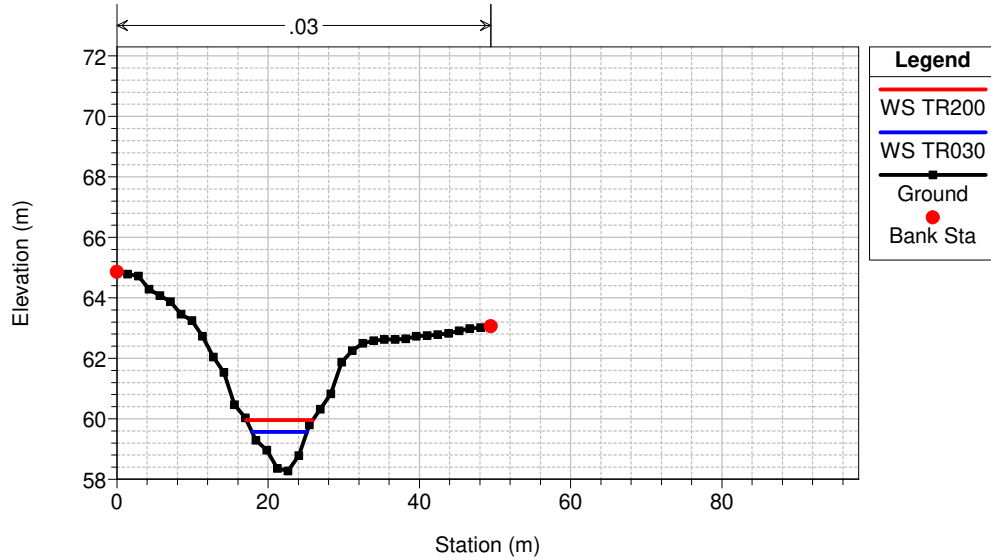
HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

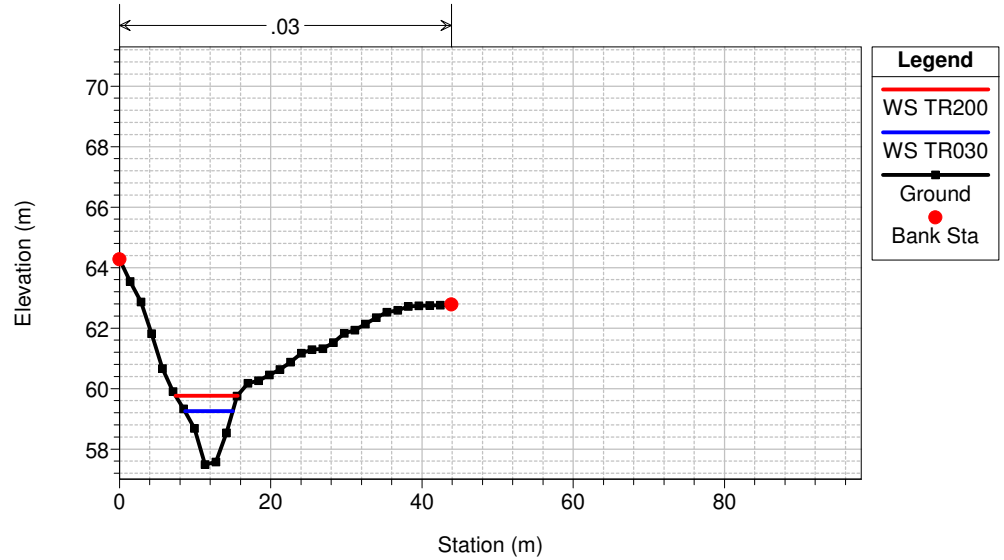
River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 478.22



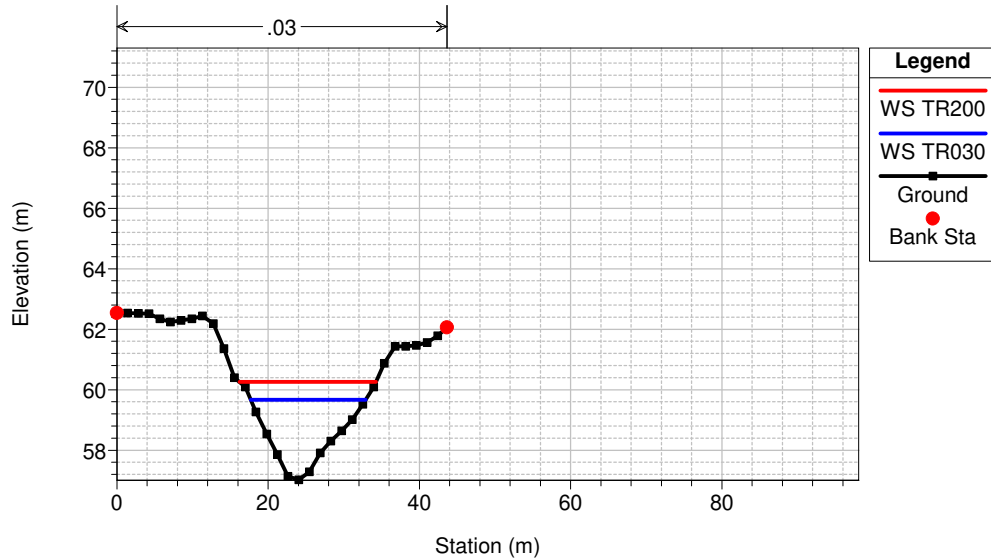
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 437.38



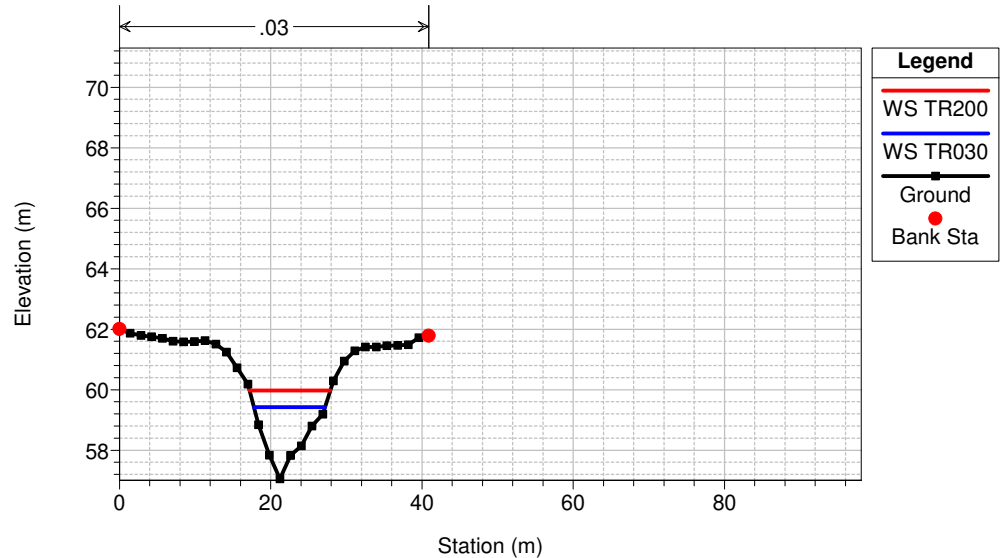
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 415.24



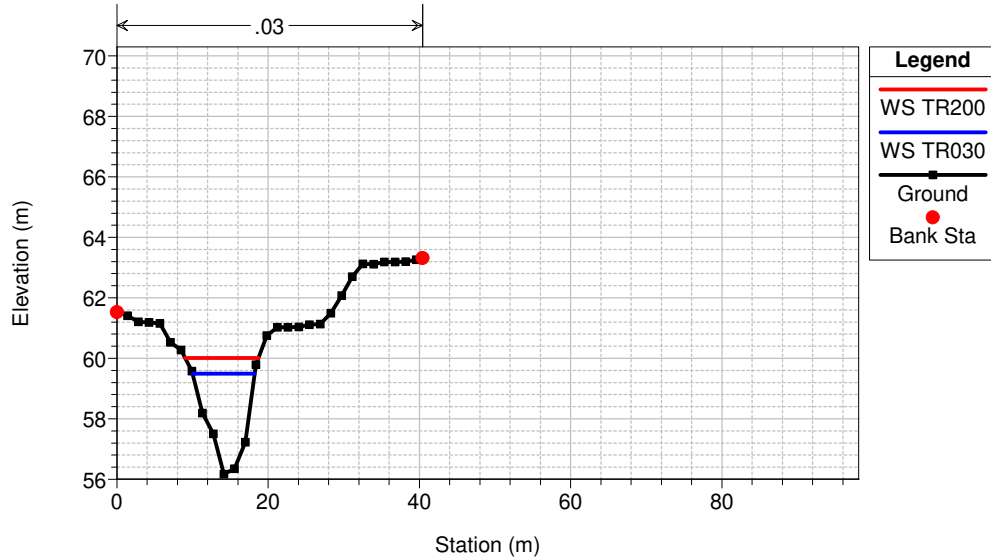
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 381.40



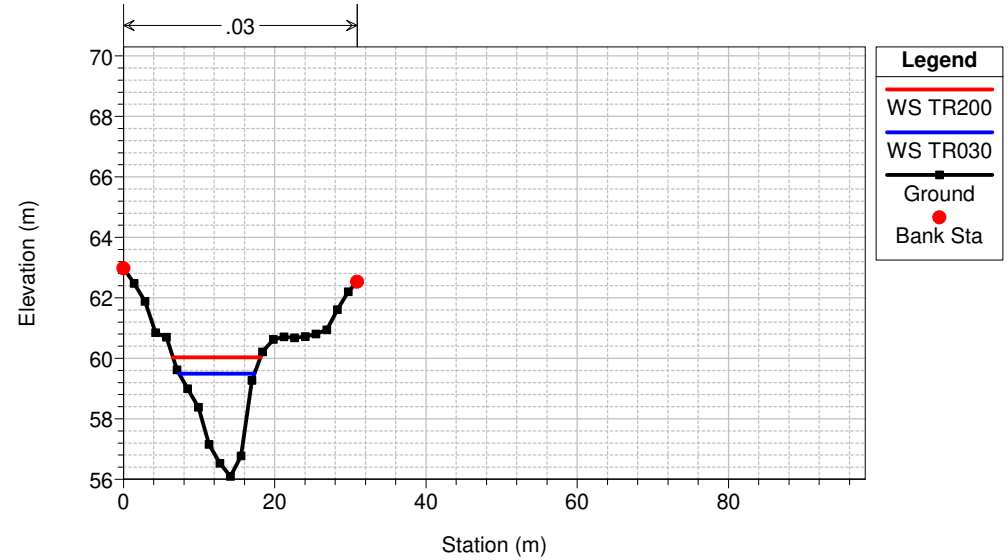
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 363.62



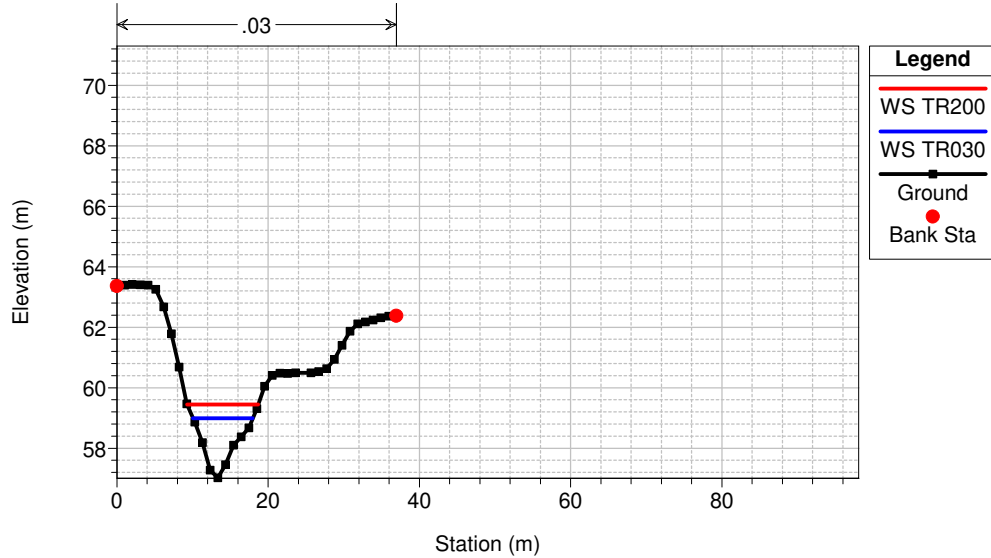
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 346.94



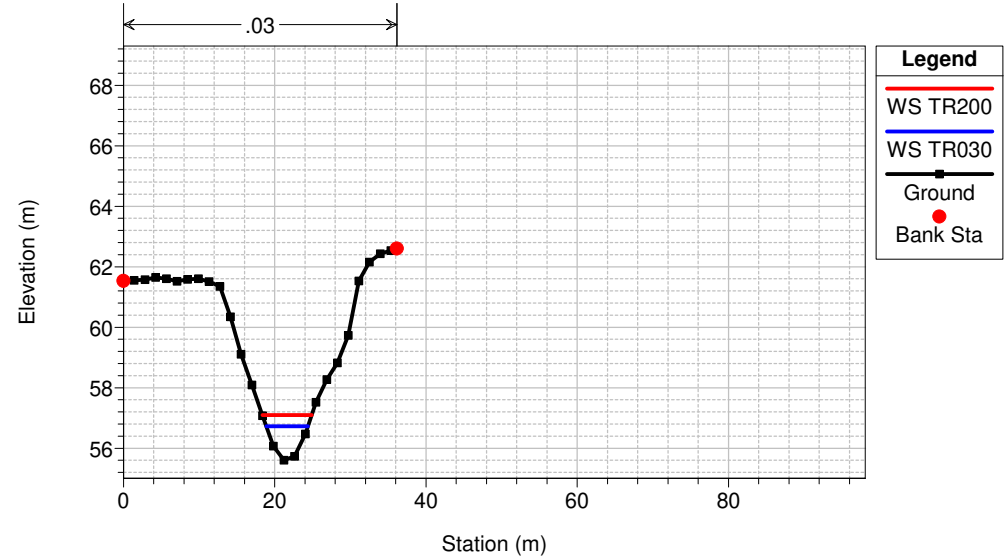
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 335.09



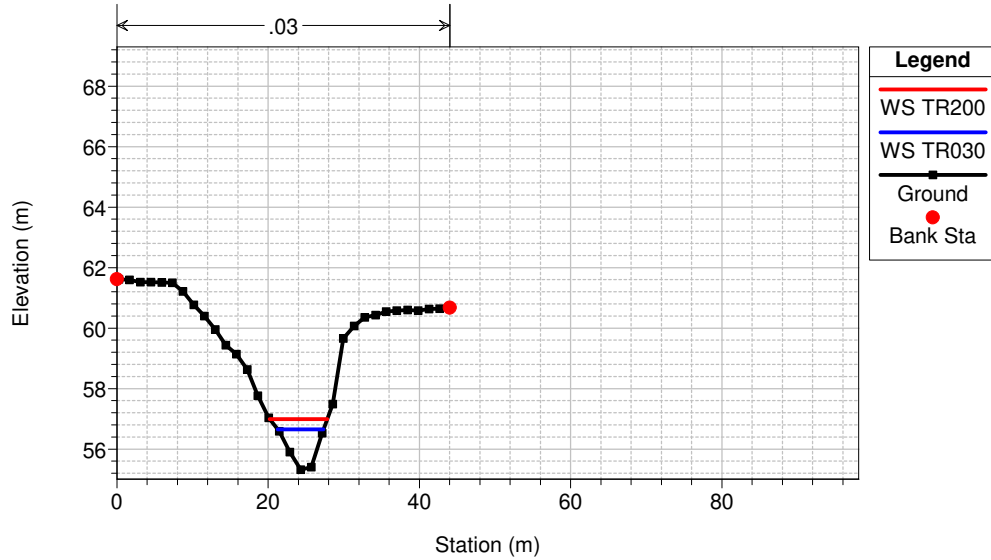
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 318.70



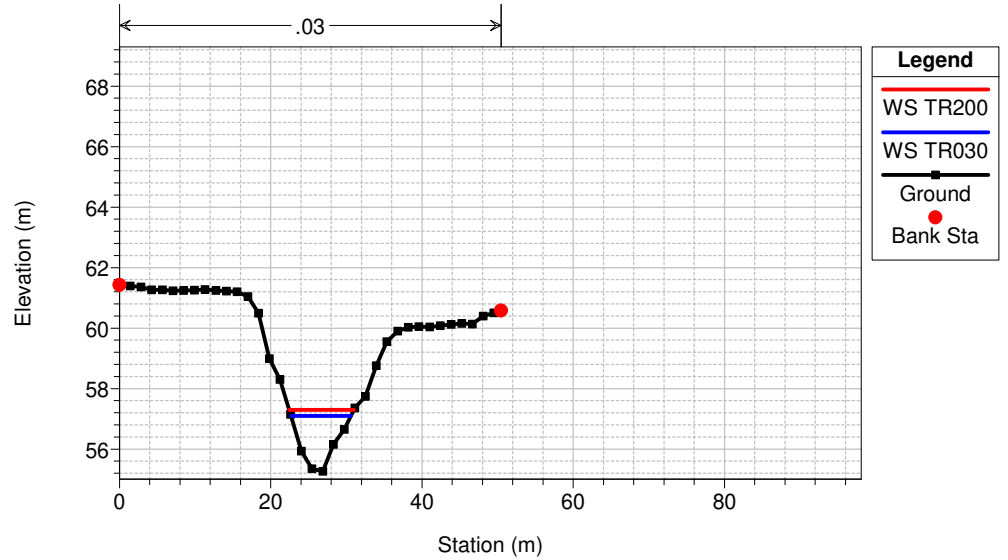
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 295.73



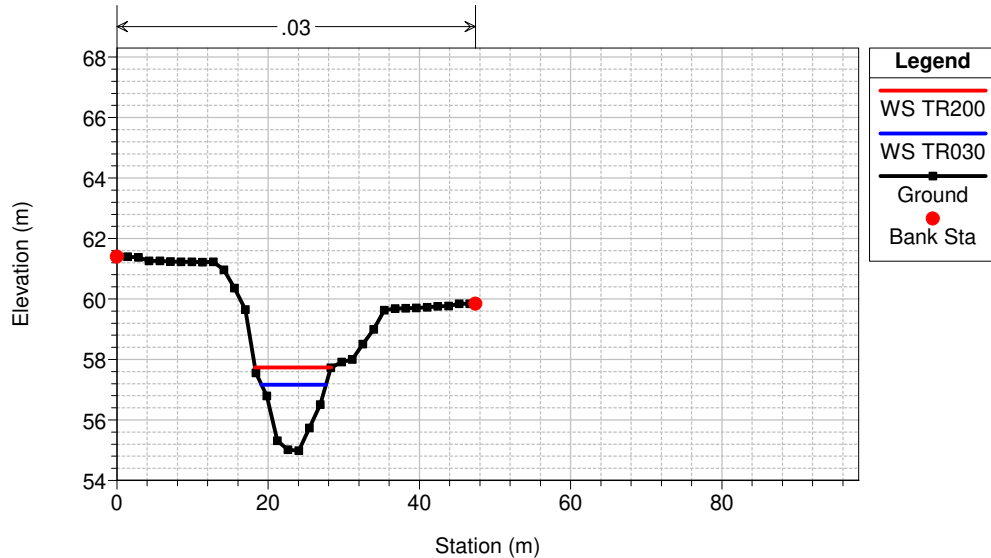
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 284.25



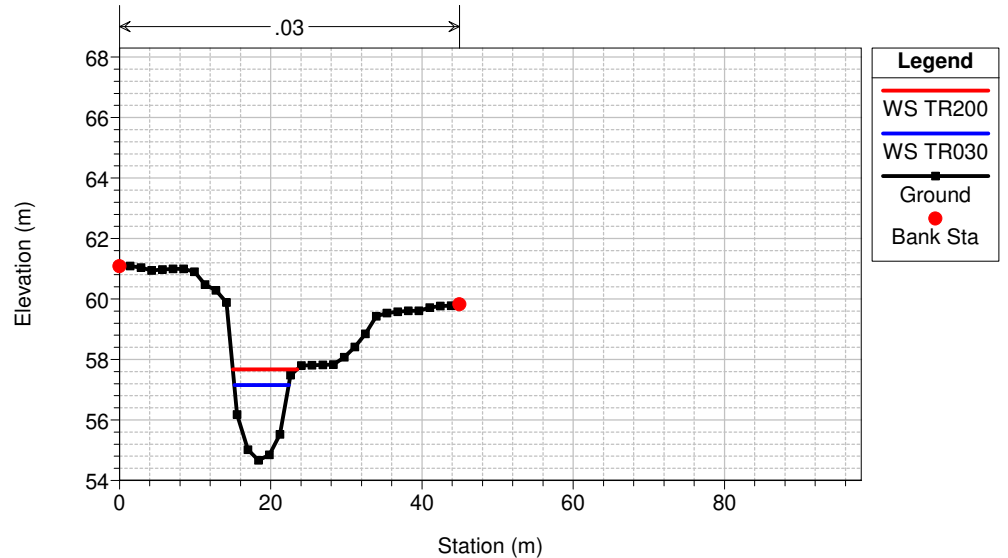
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 270.17



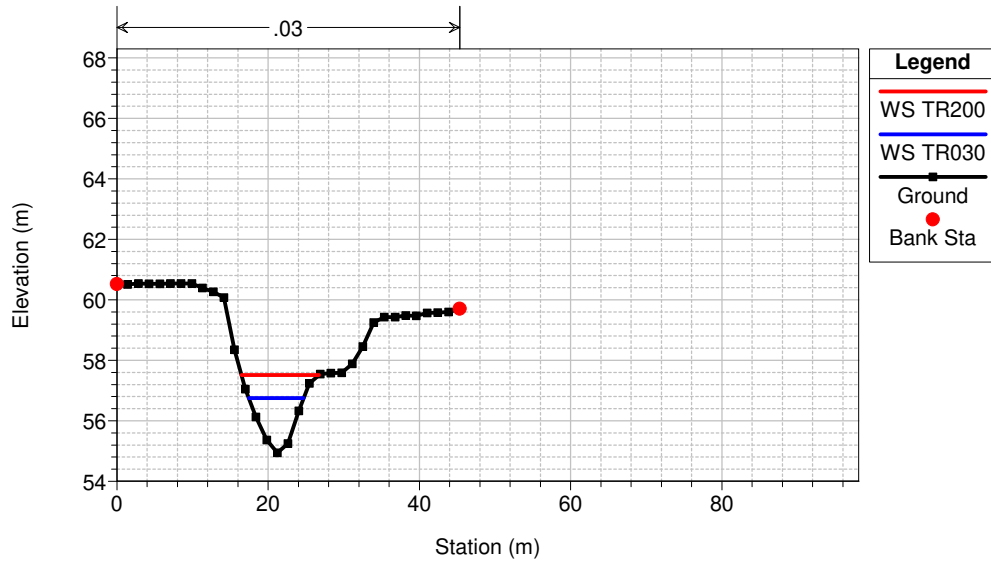
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 252.61



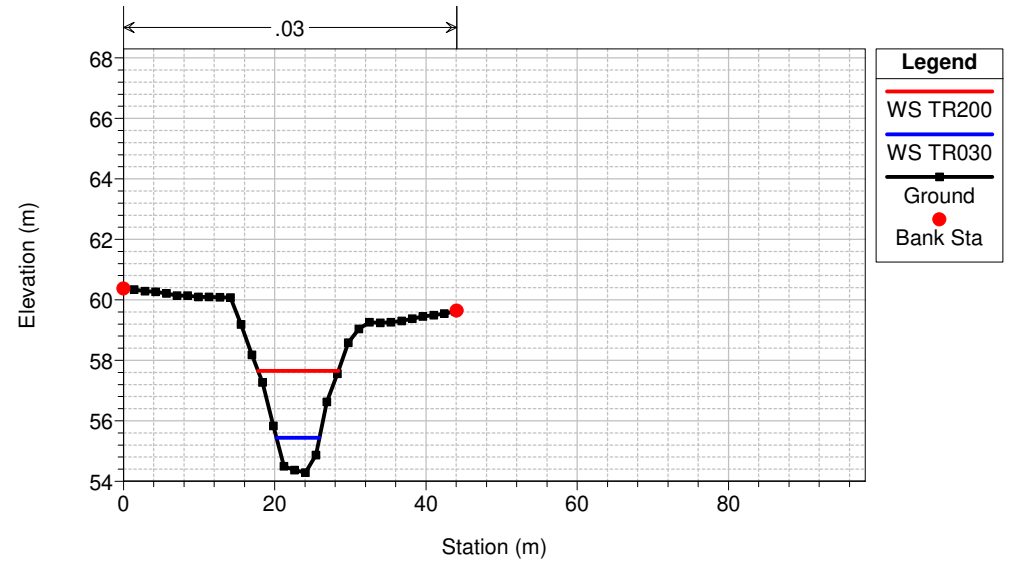
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 240.51



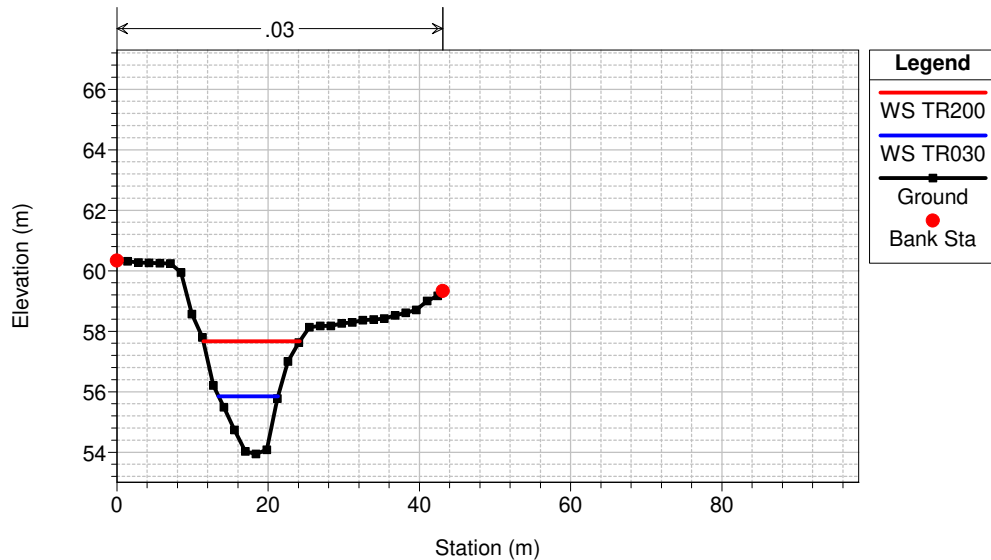
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 234.16



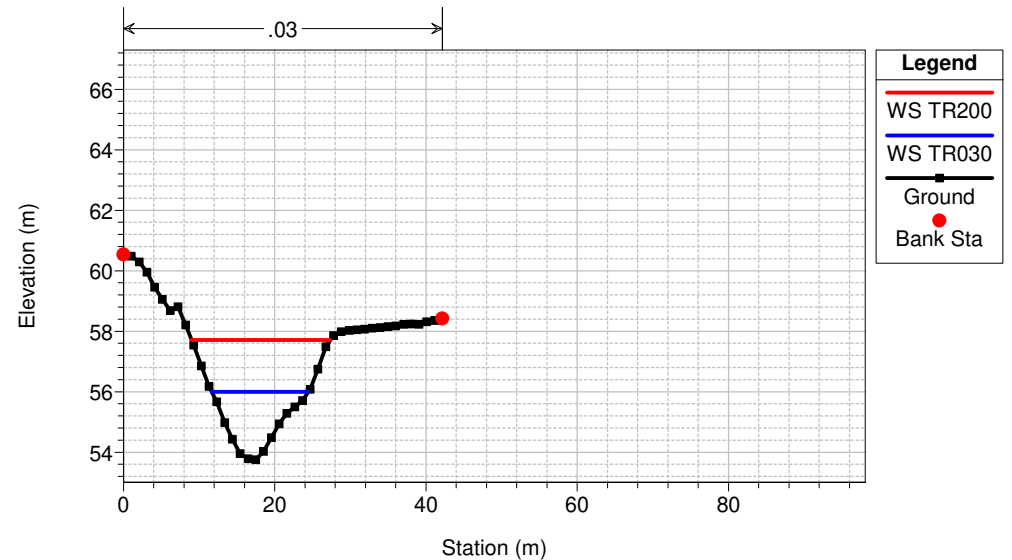
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 215.58



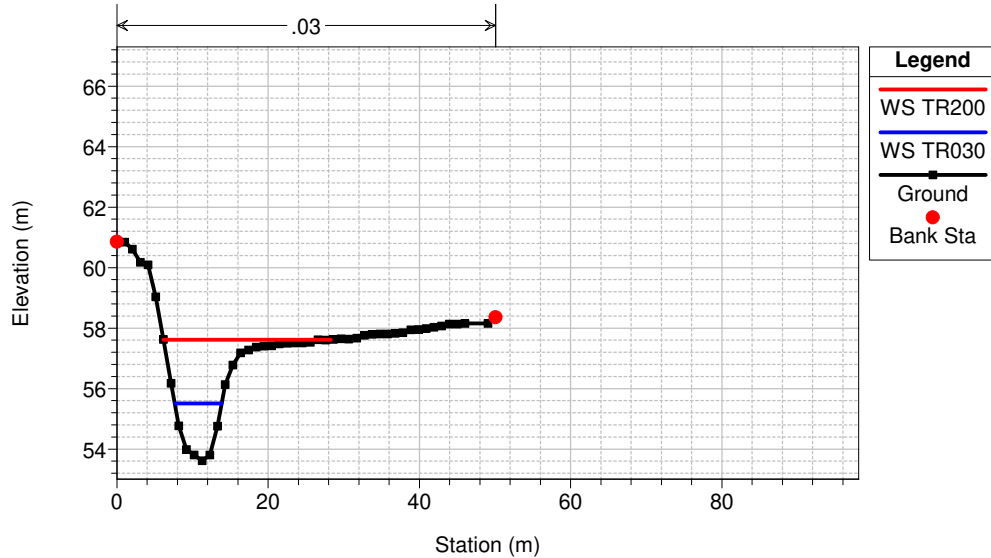
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 193.08



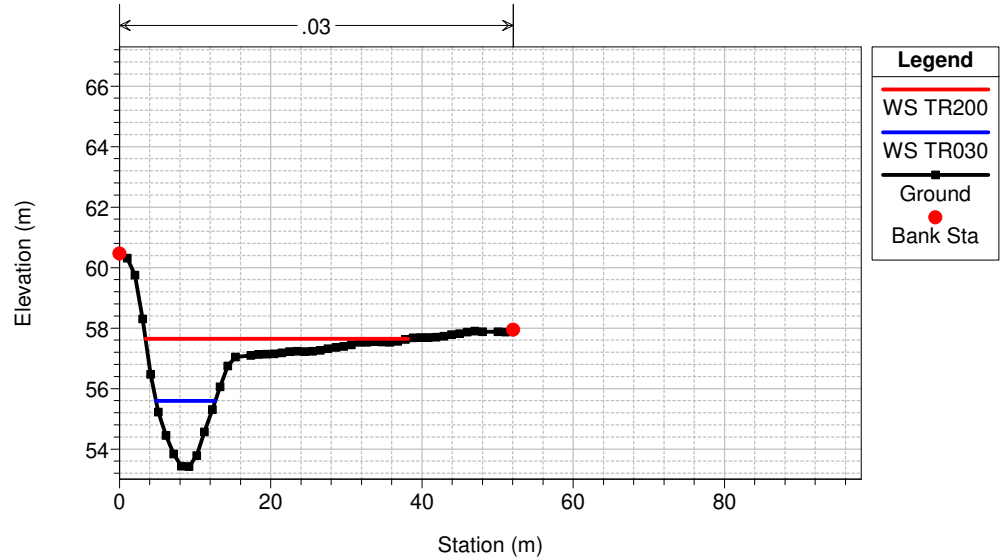
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 192.51



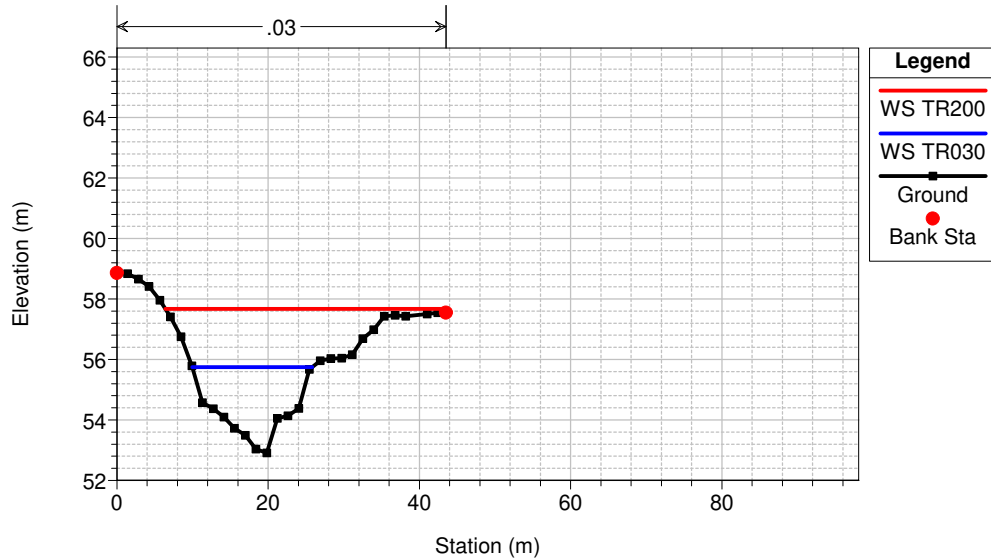
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 169.47



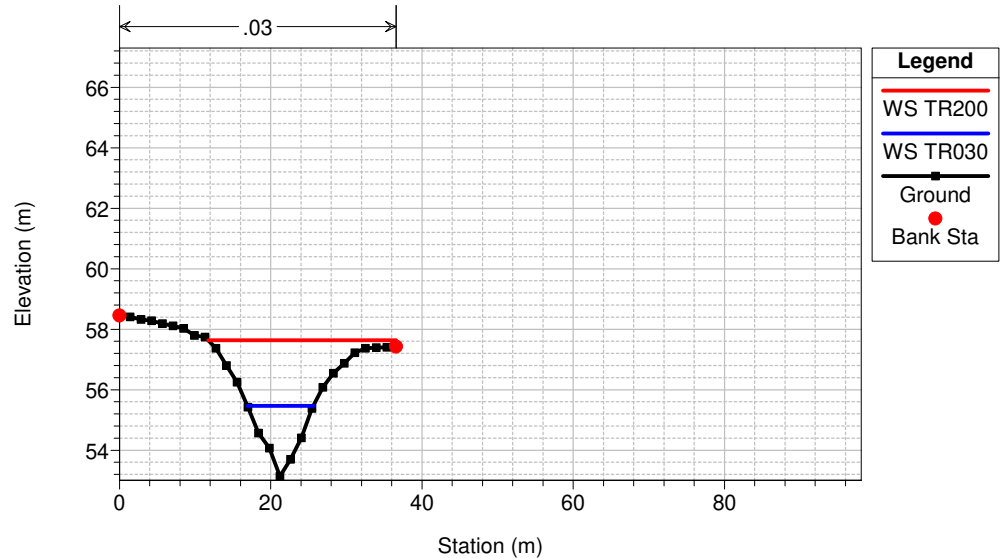
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 158.89



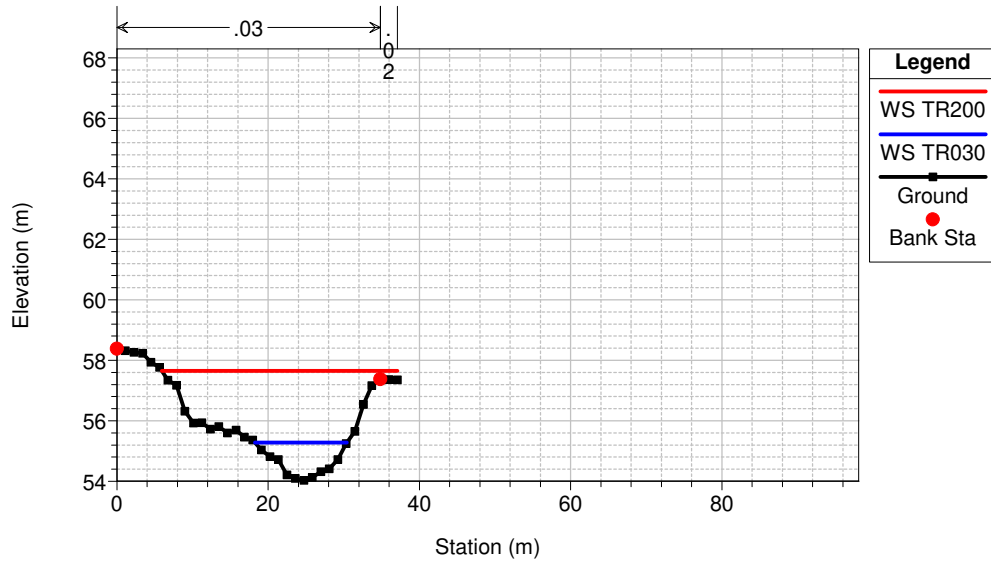
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 145.01



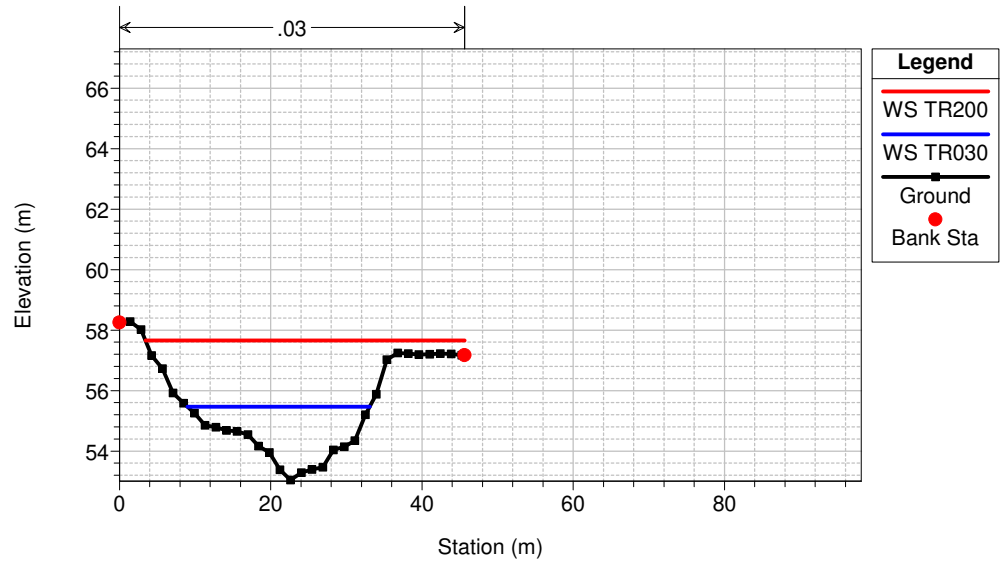
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 134.11



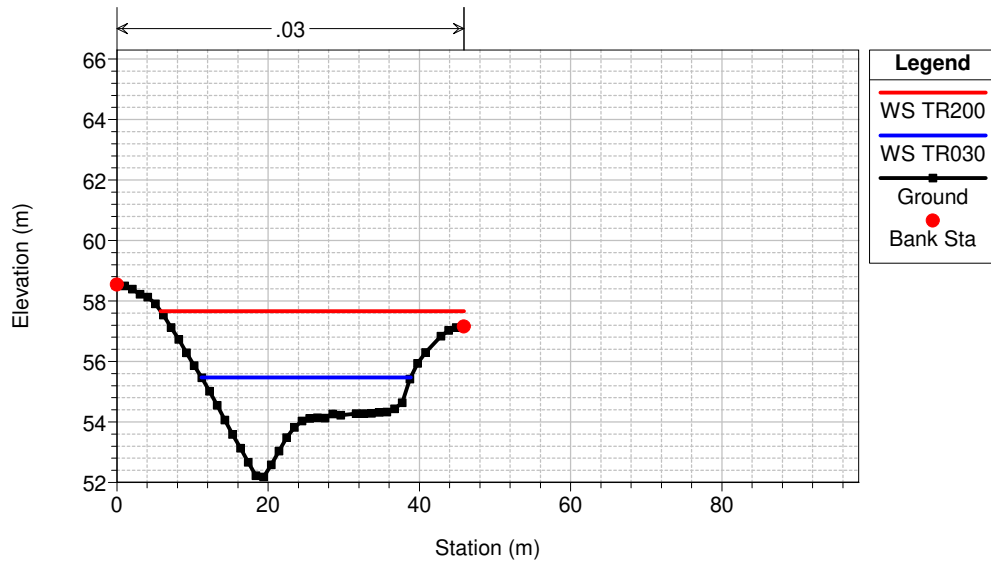
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 121.12



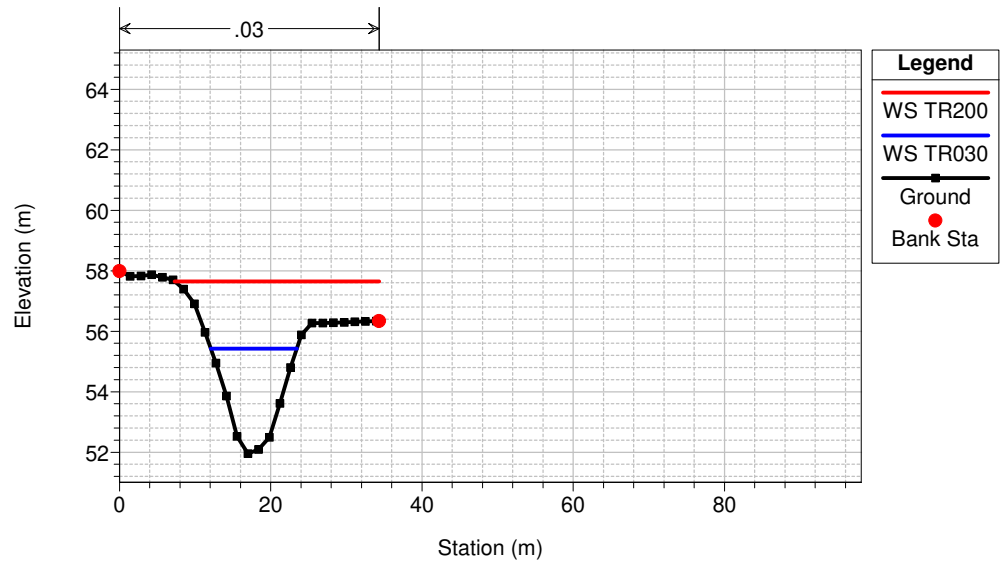
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 115.63



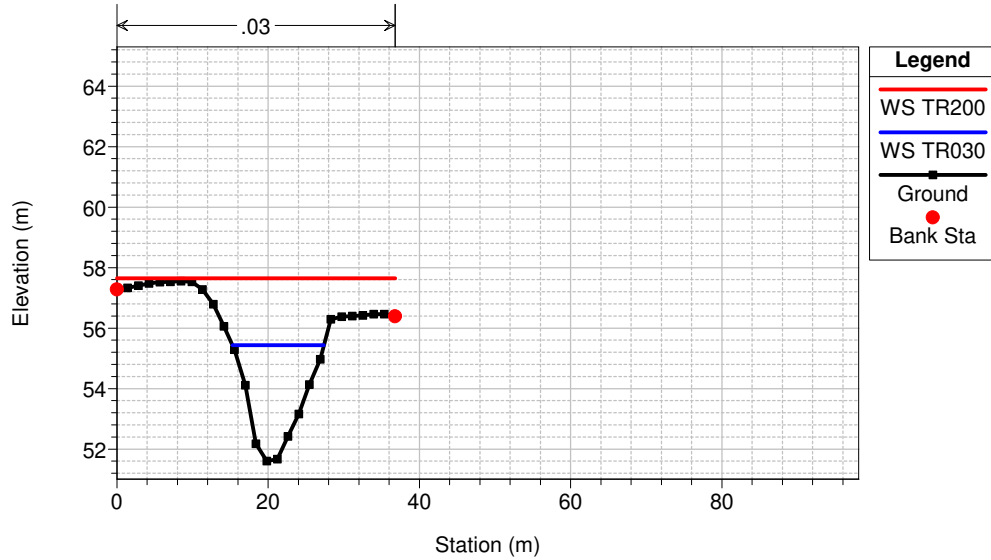
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 97.04



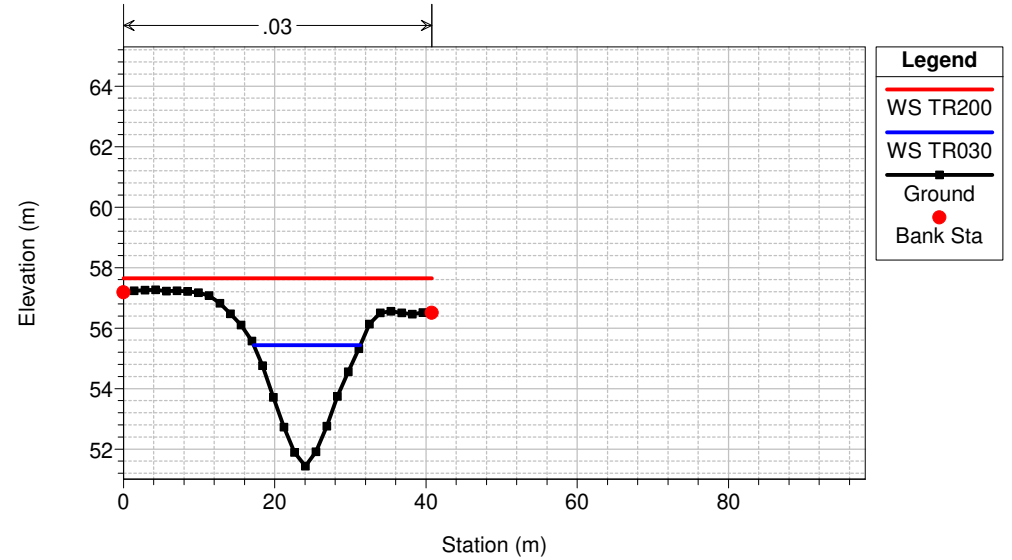
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 76.47



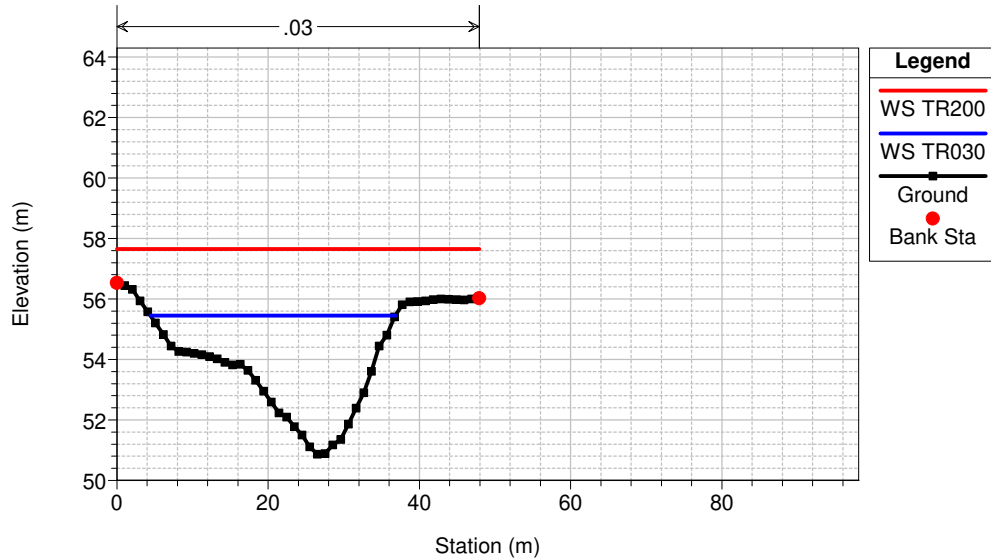
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 66.36



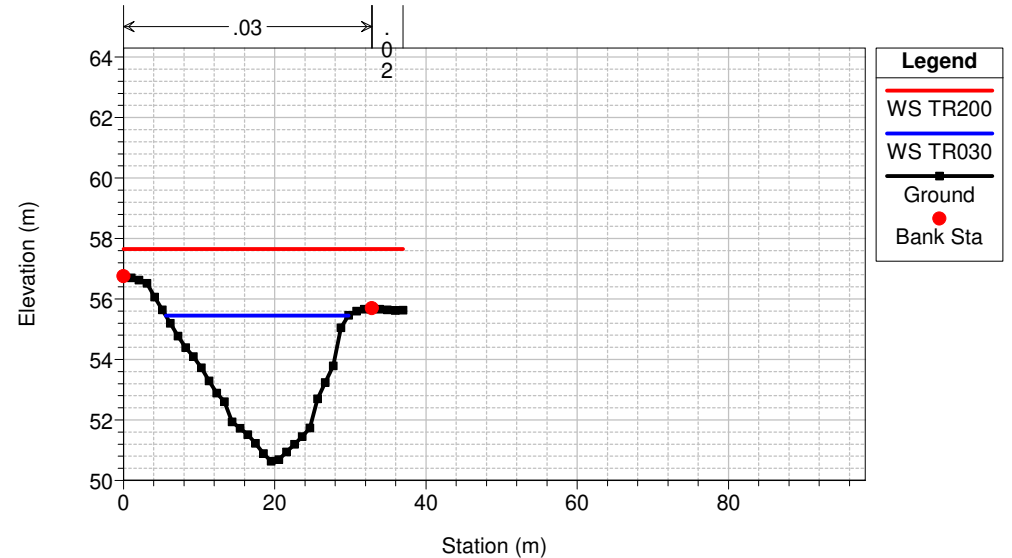
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 56.12



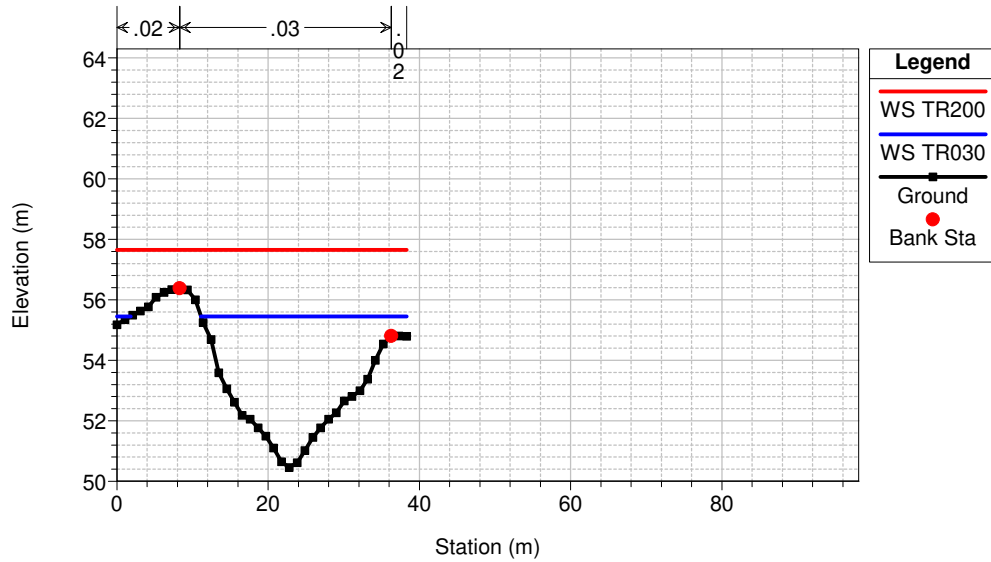
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 42.05



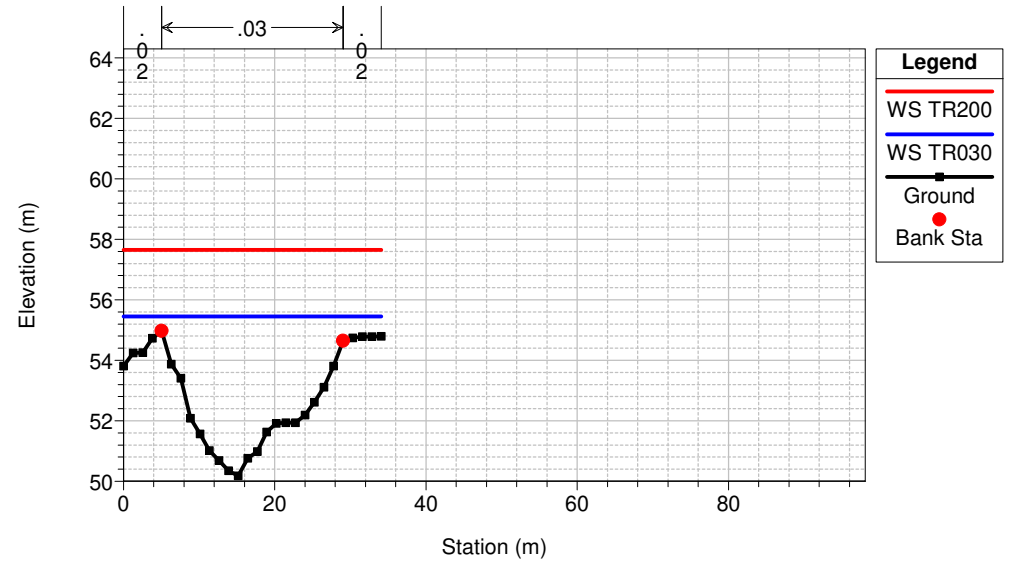
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 29.15



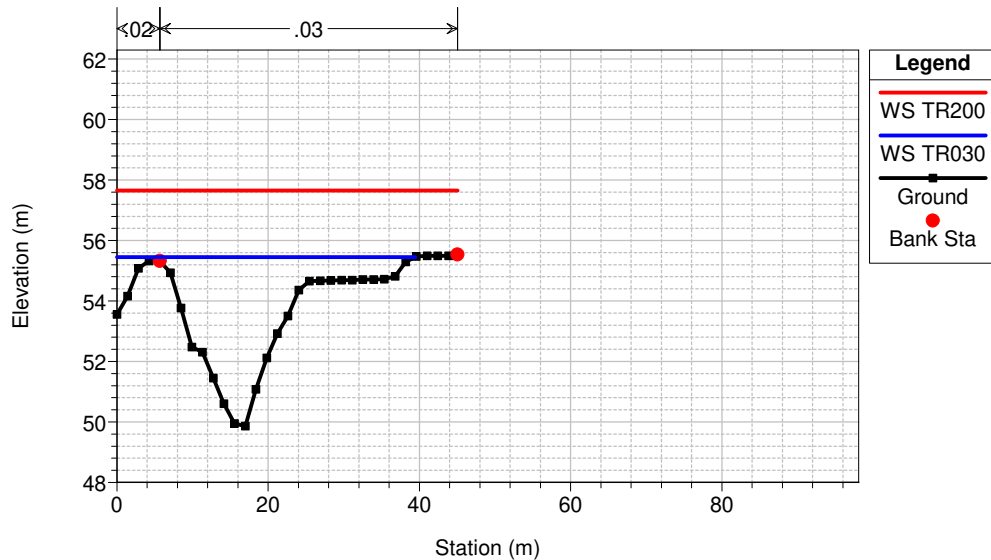
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 23.50



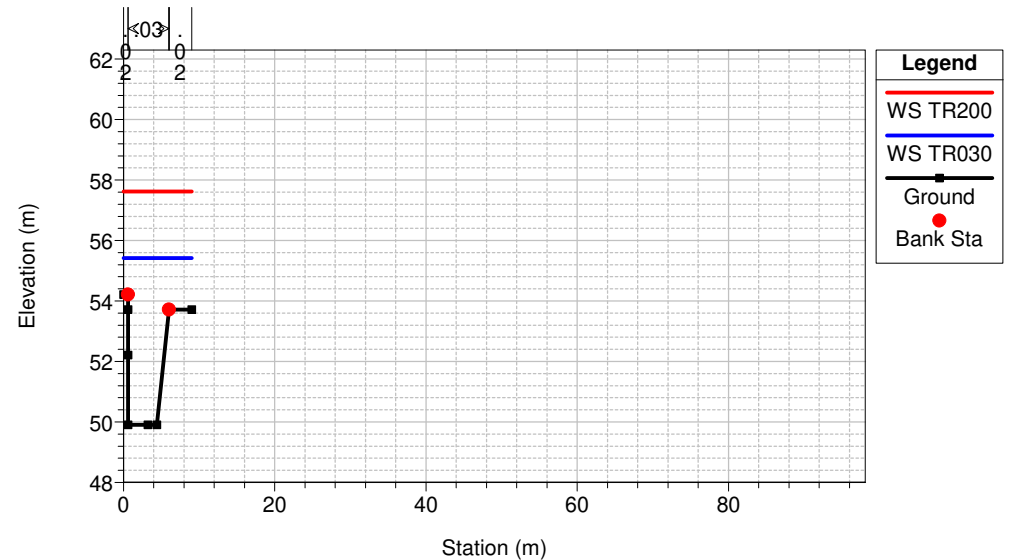
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 12.76



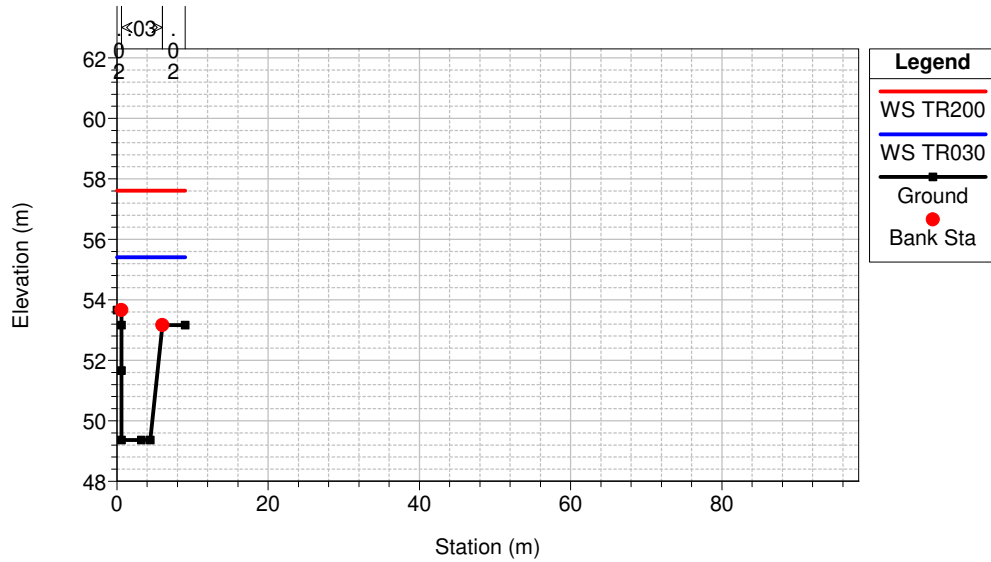
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 0.10



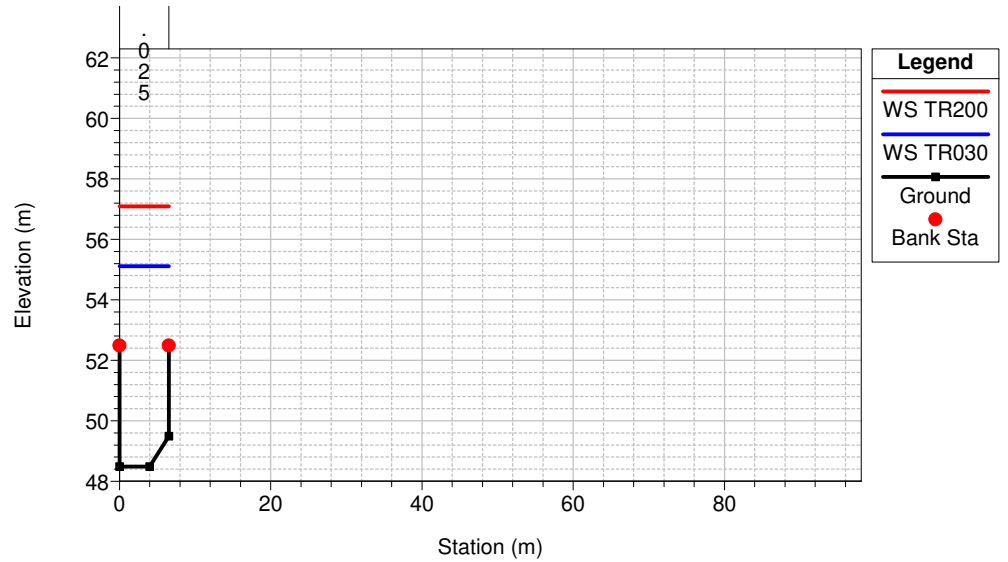
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 0.07



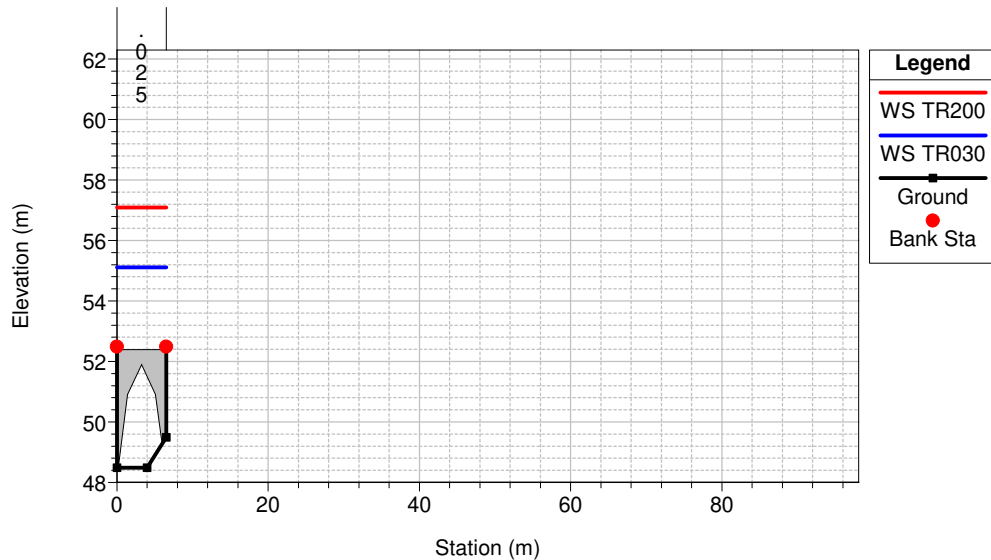
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERINO Reach = GUAPPERINO VALLE RS = 0.03



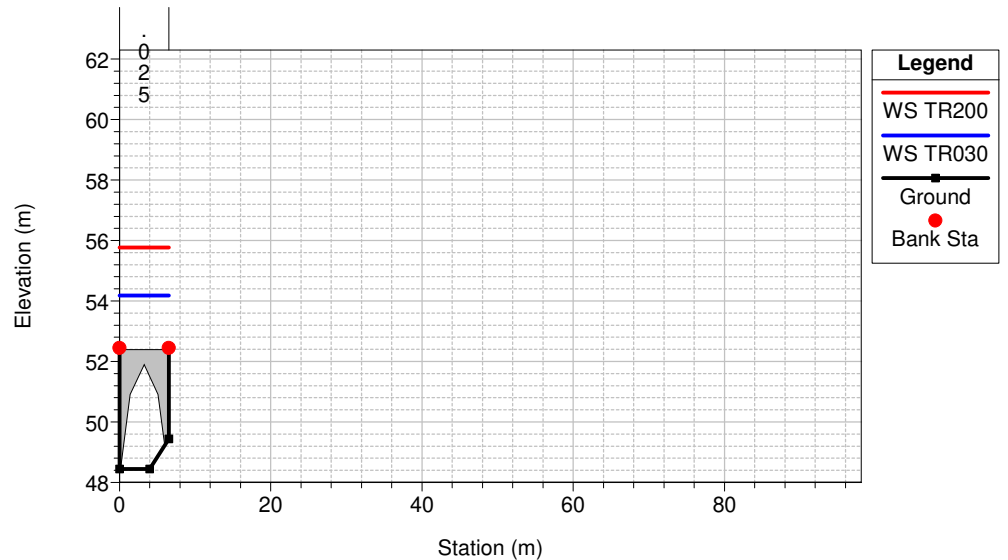
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 323.6



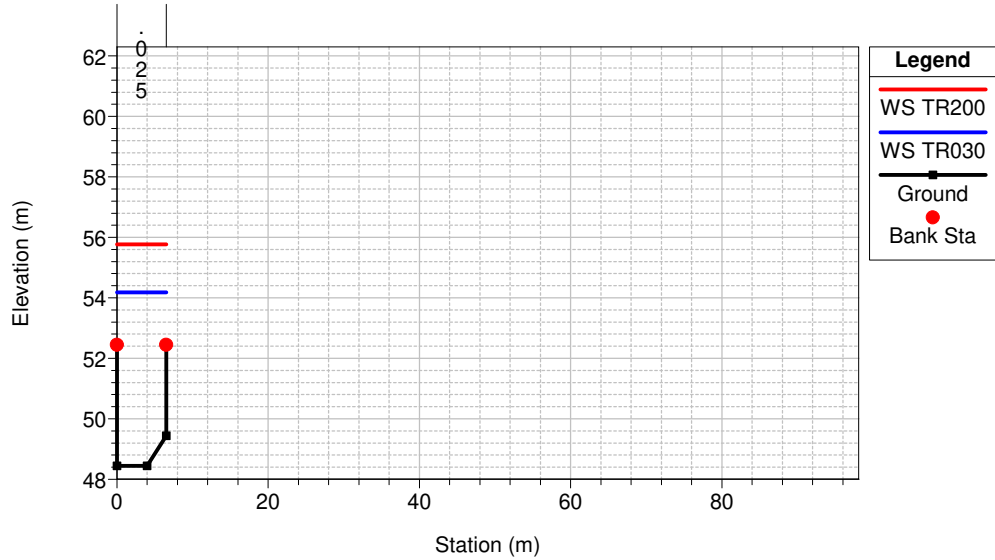
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 323.4 BR



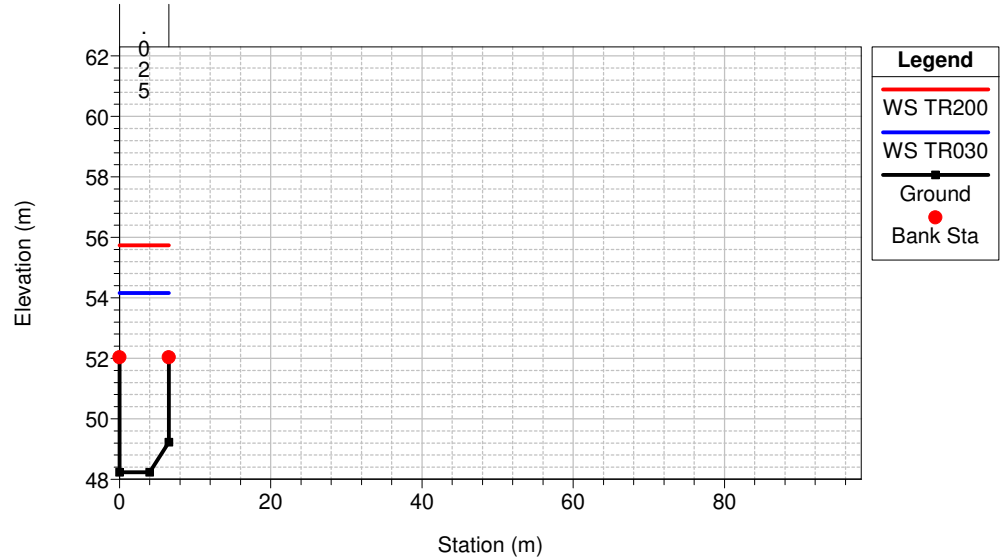
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 323.4 BR



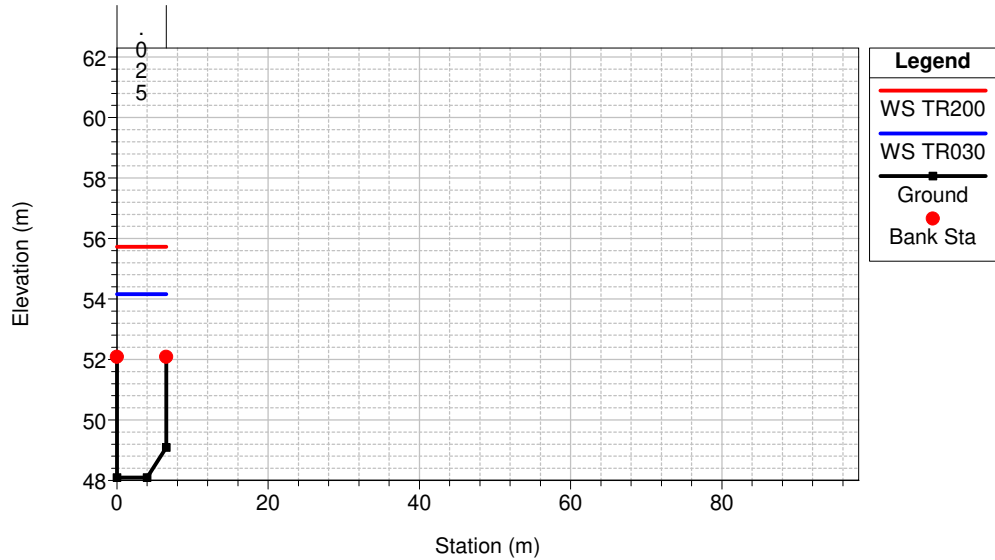
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 323.3



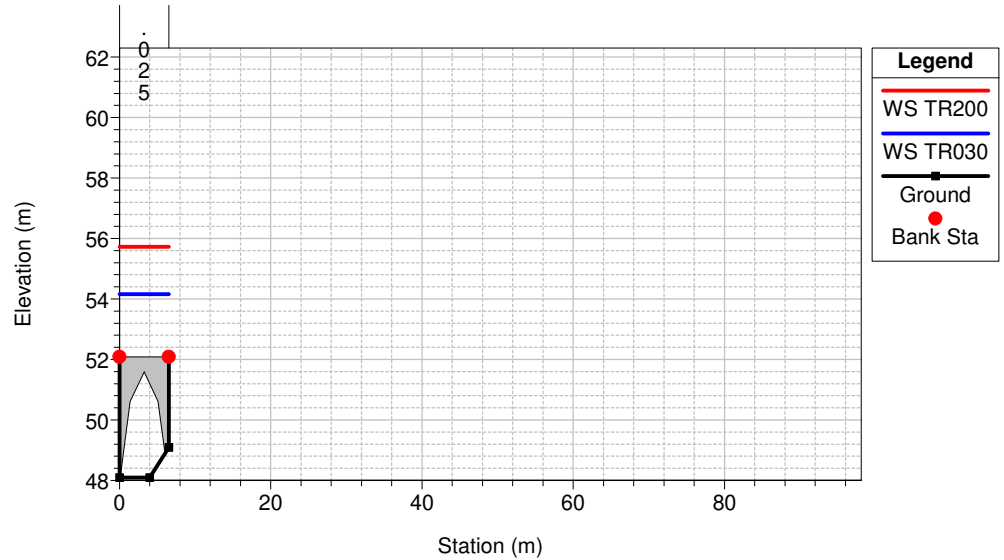
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 323.25



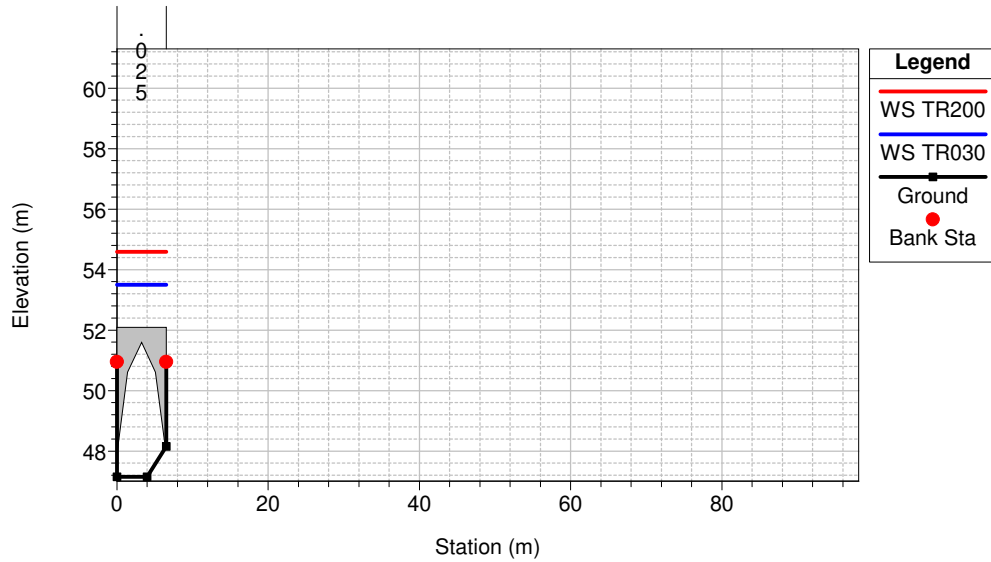
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 323.2



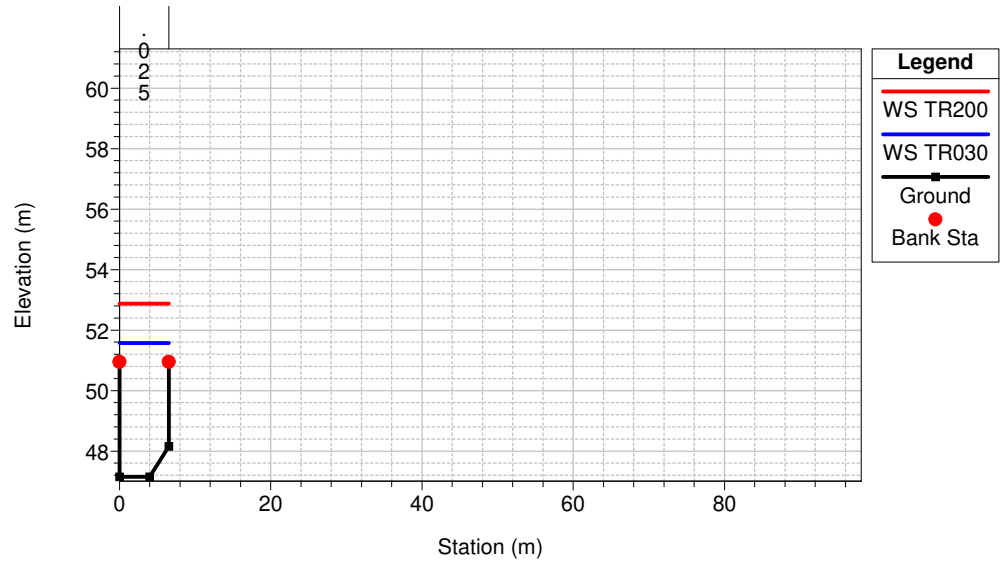
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 323.1 BR



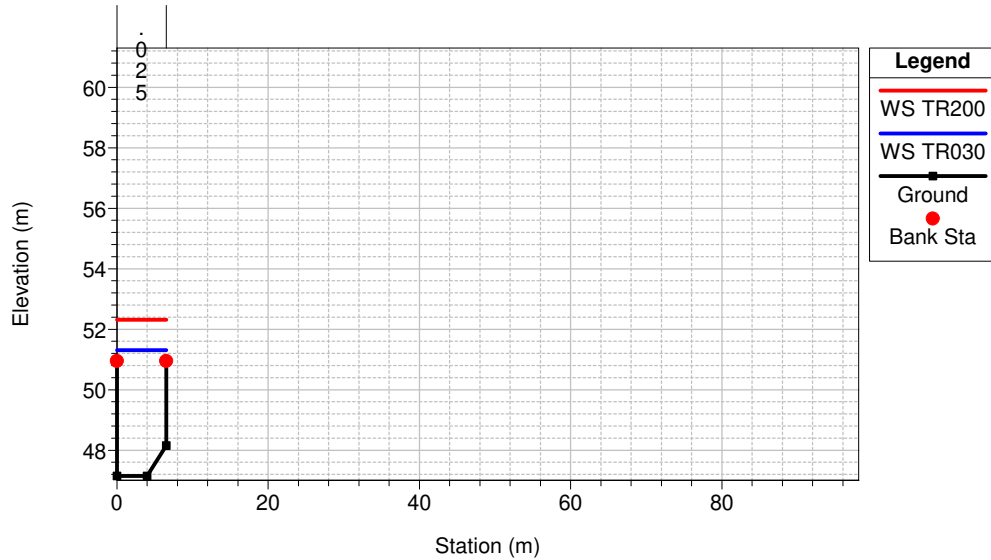
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 323.1 BR



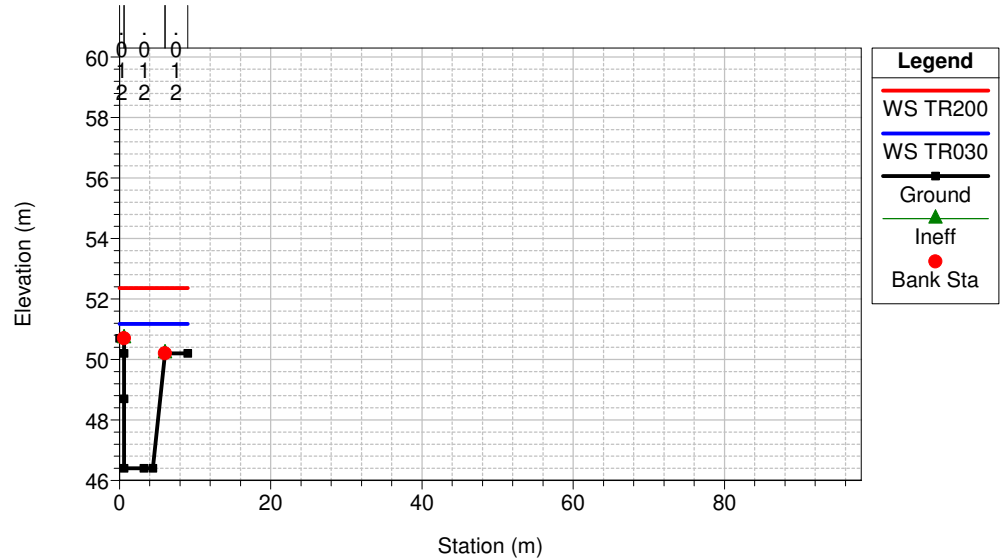
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 323.05



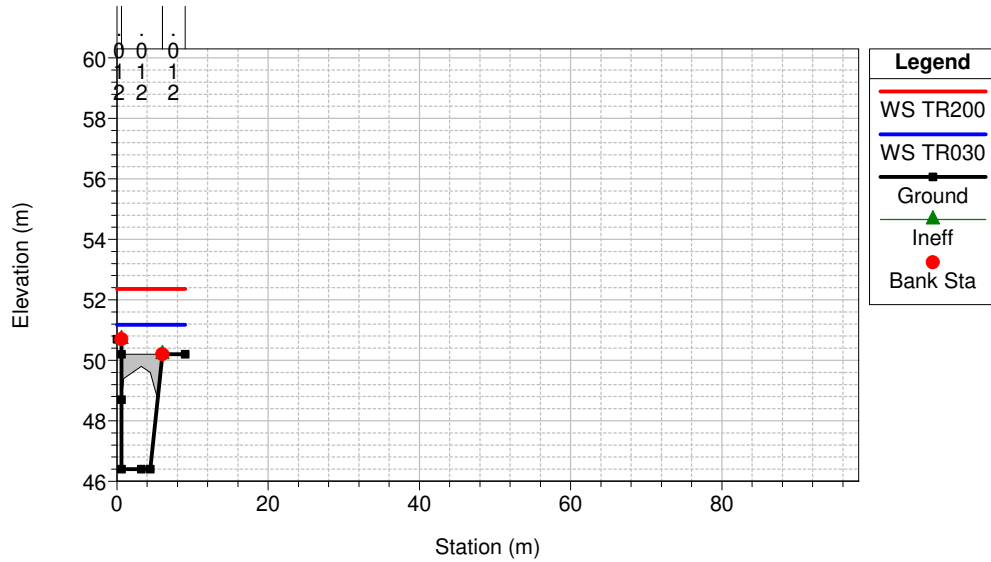
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 322



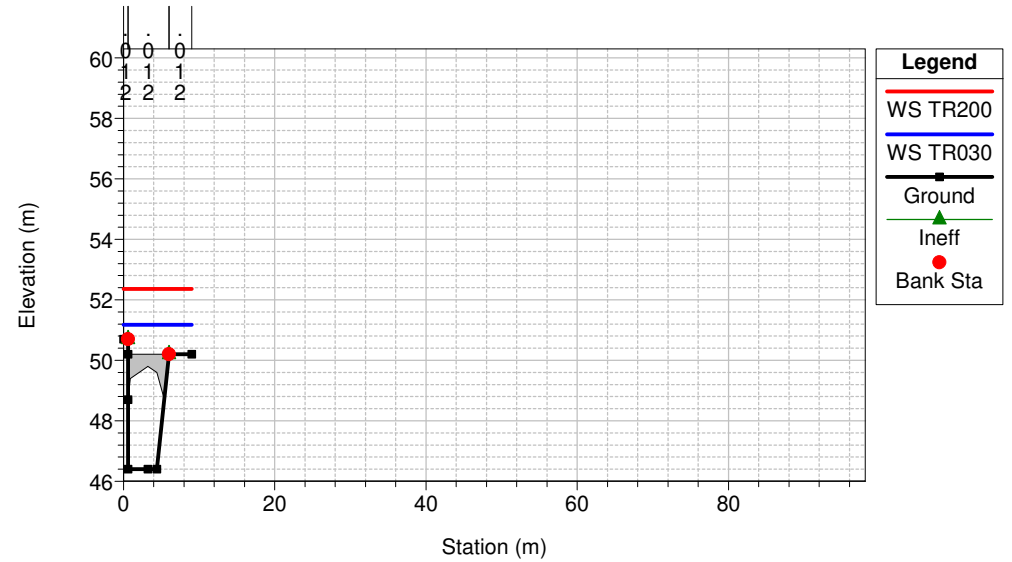
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 320 s320M



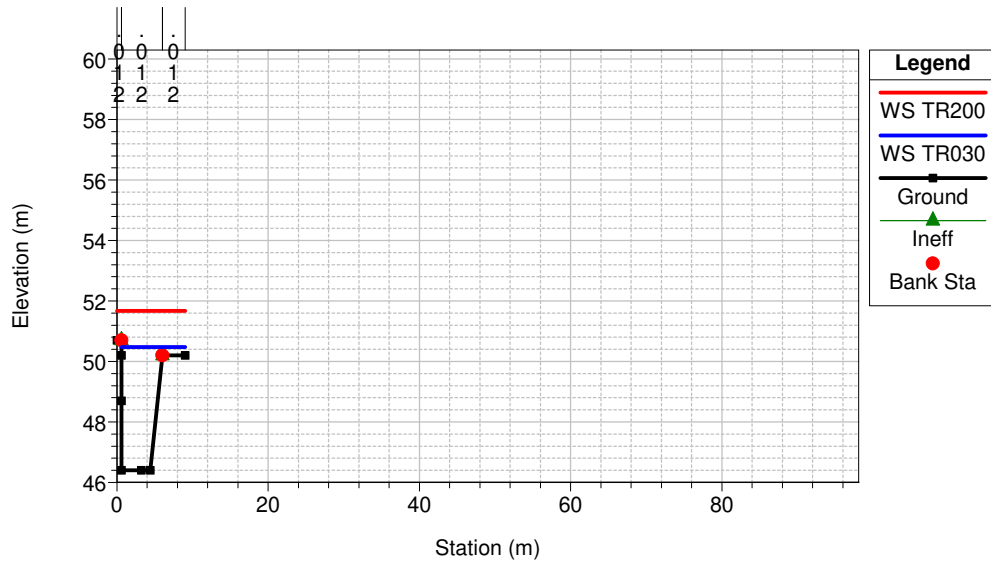
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 319 BR



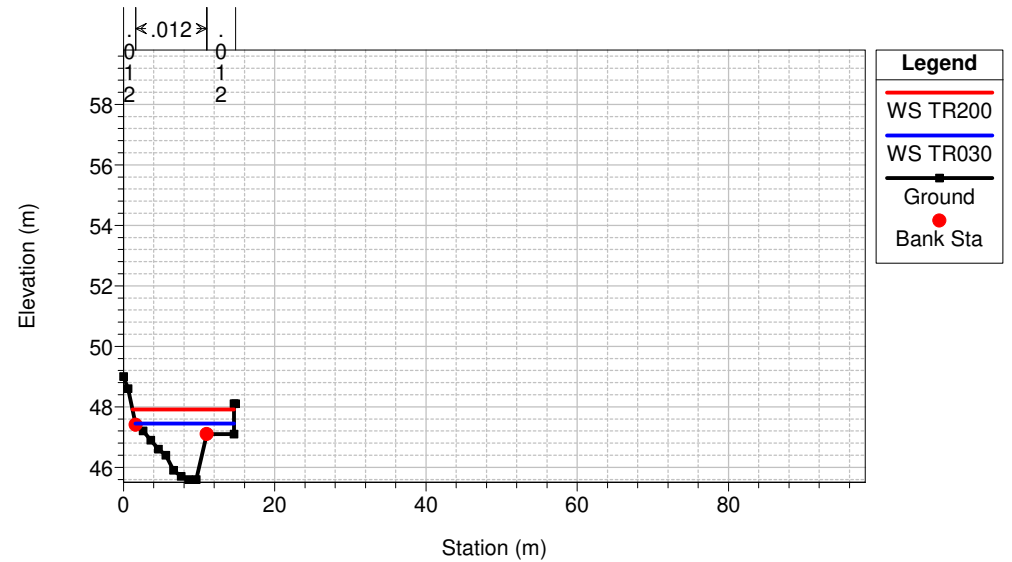
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 319 BR



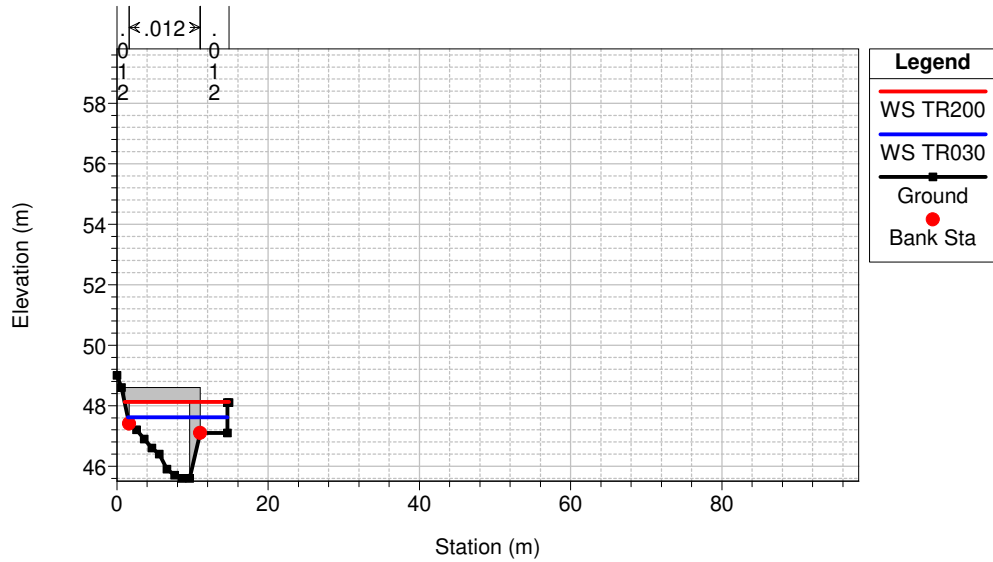
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 318 s320V



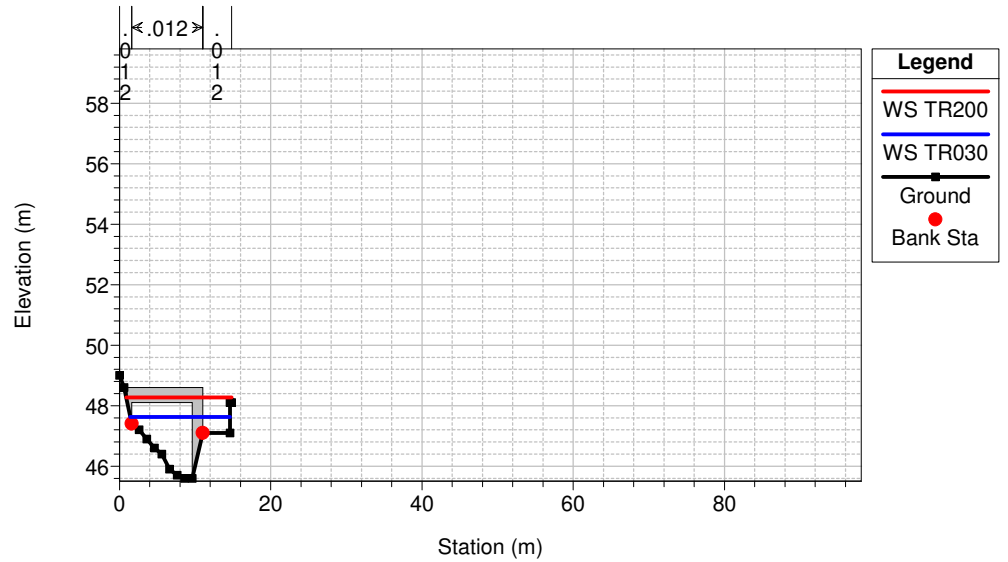
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 310 s310M



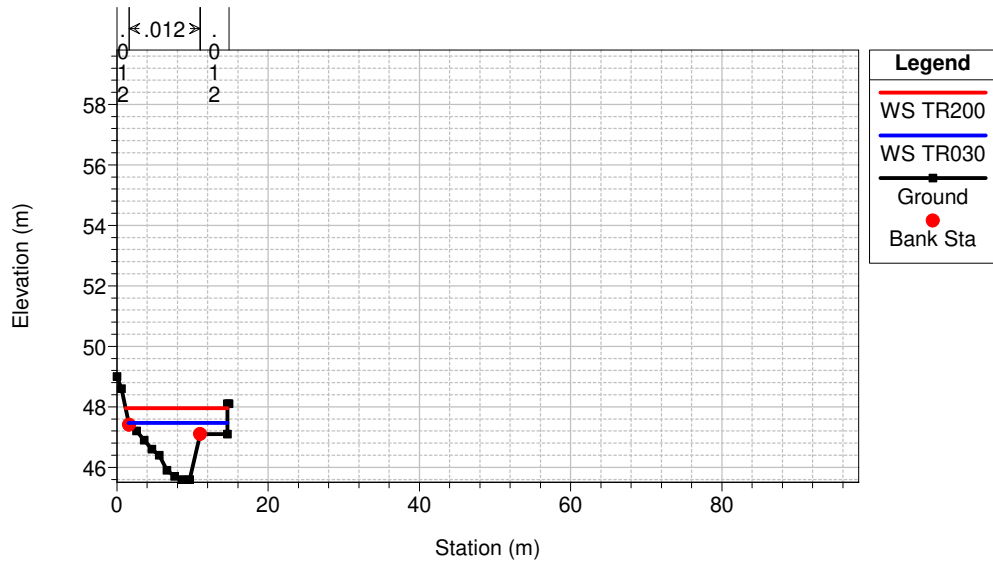
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 309 BR



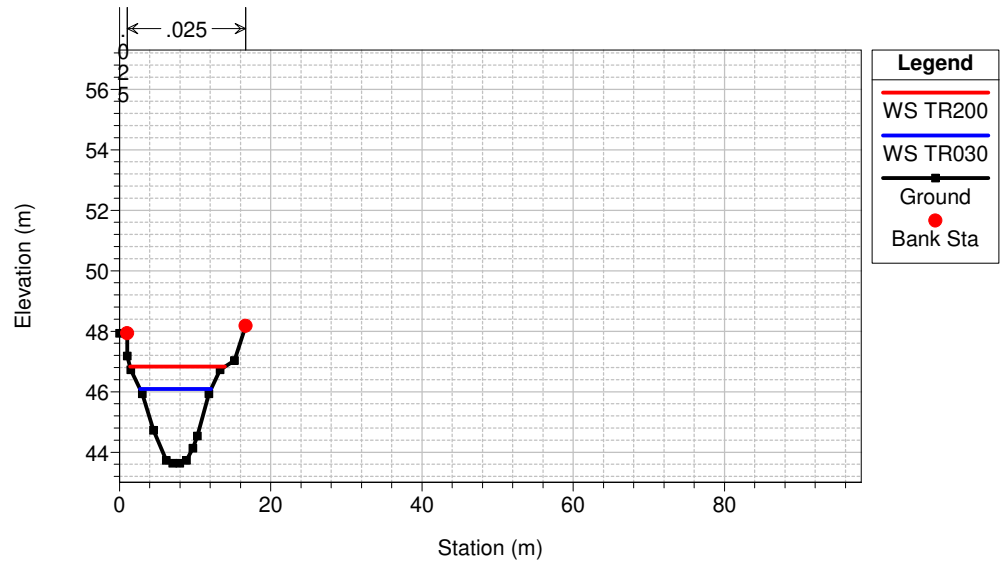
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 309 BR



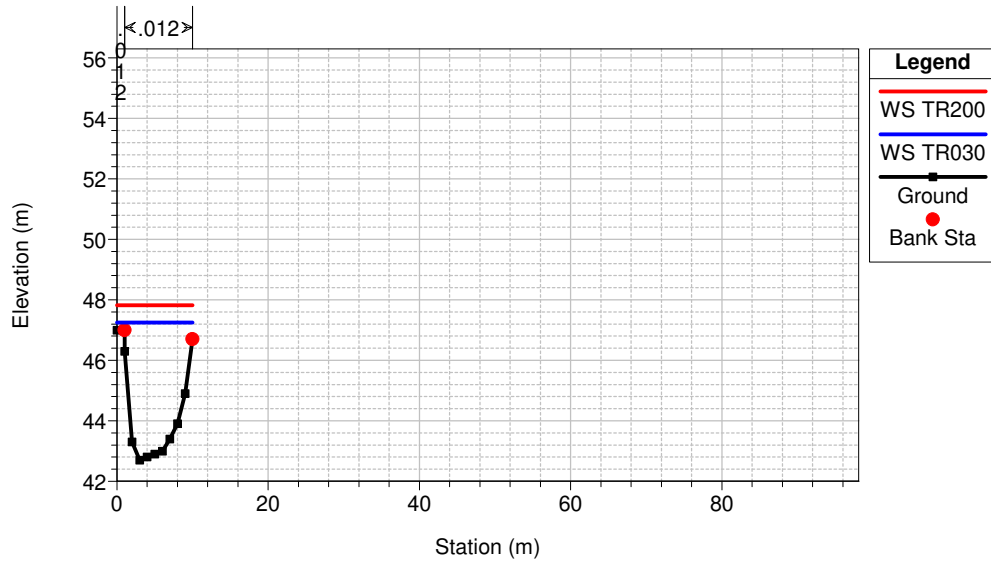
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 308 s310V



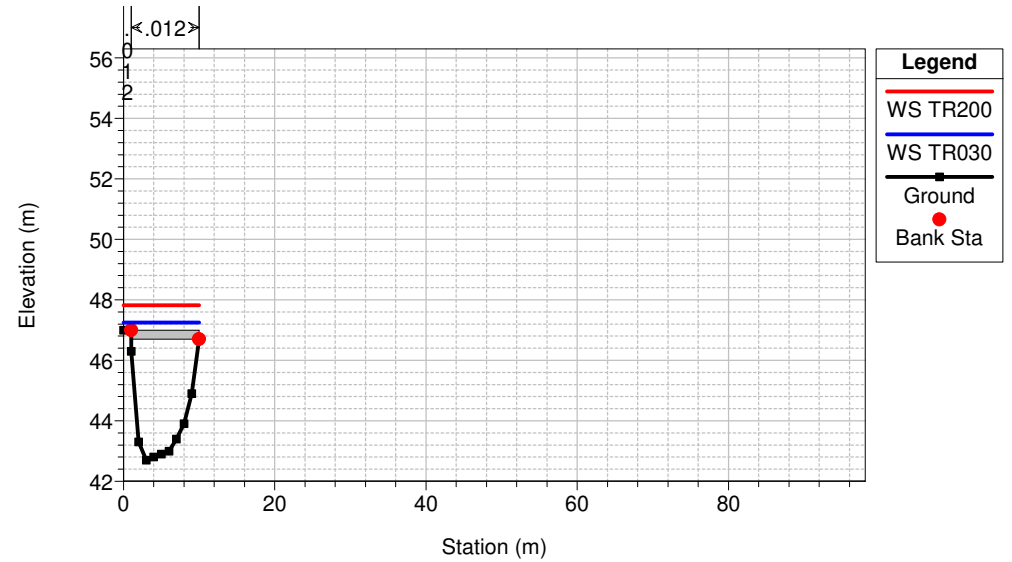
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 300 s300



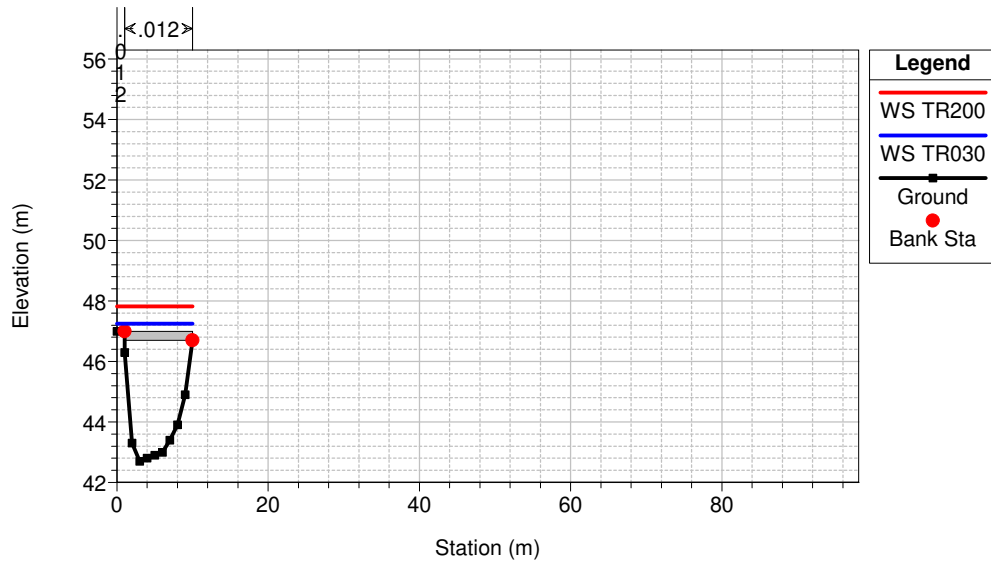
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 290 s290M



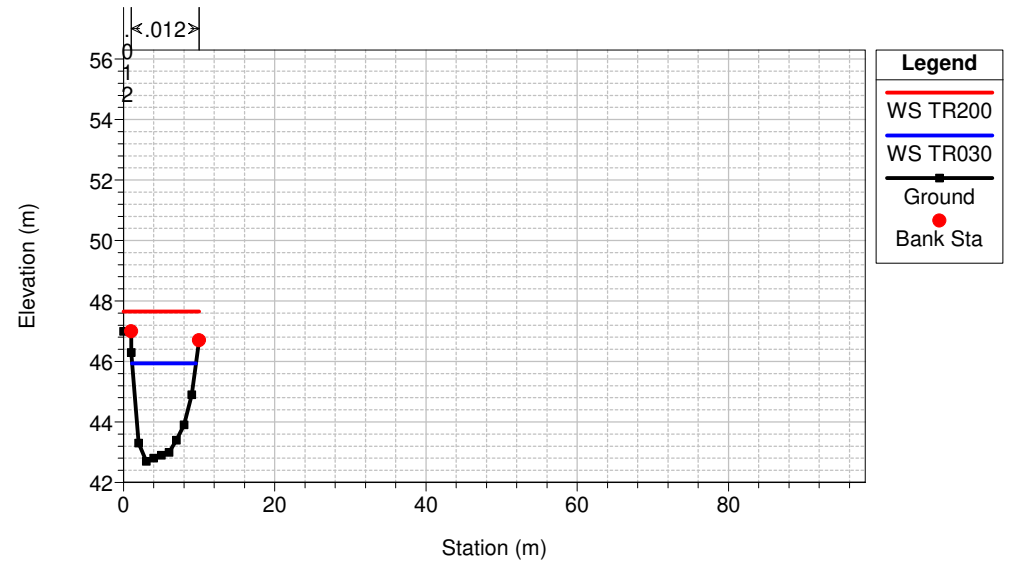
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 289 BR



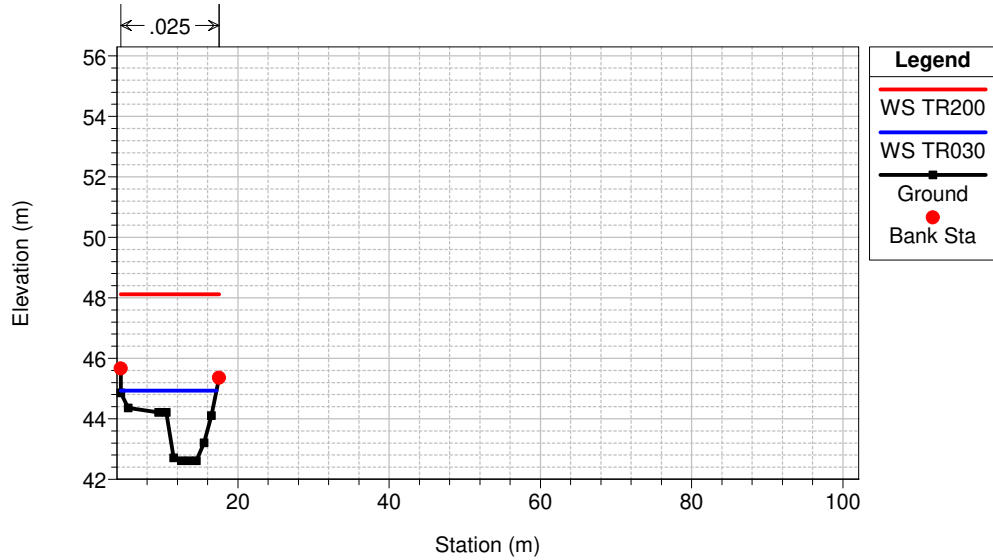
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 289 BR



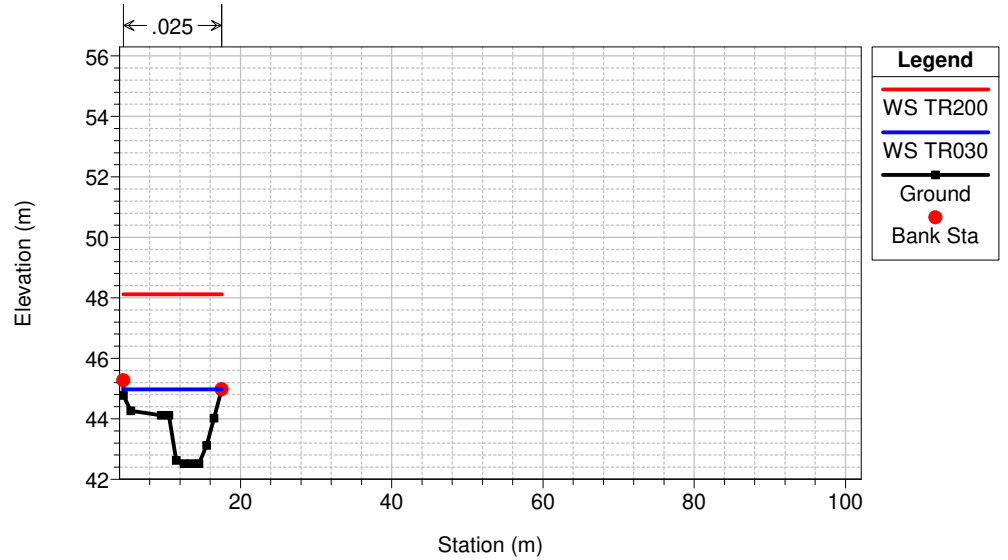
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 288 s290v



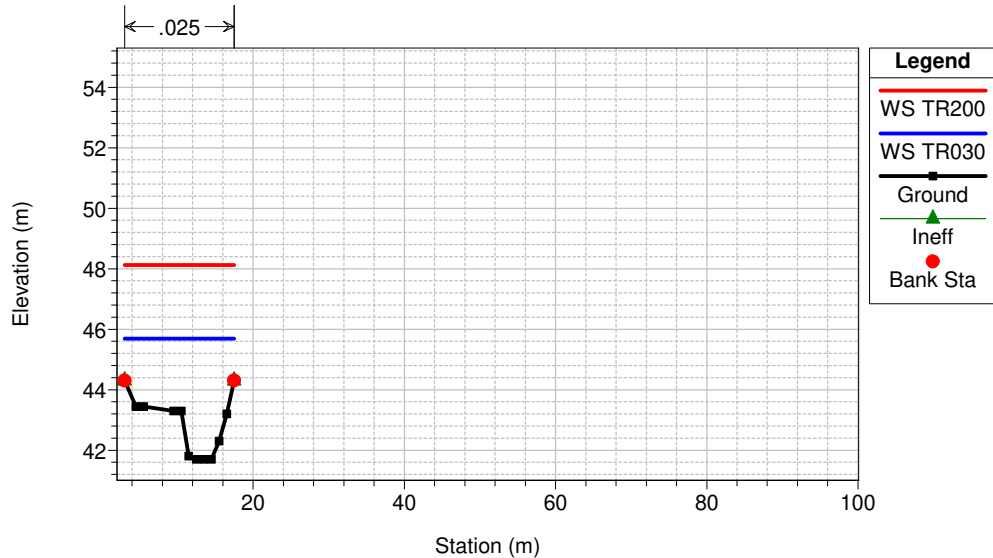
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 285 s280tris



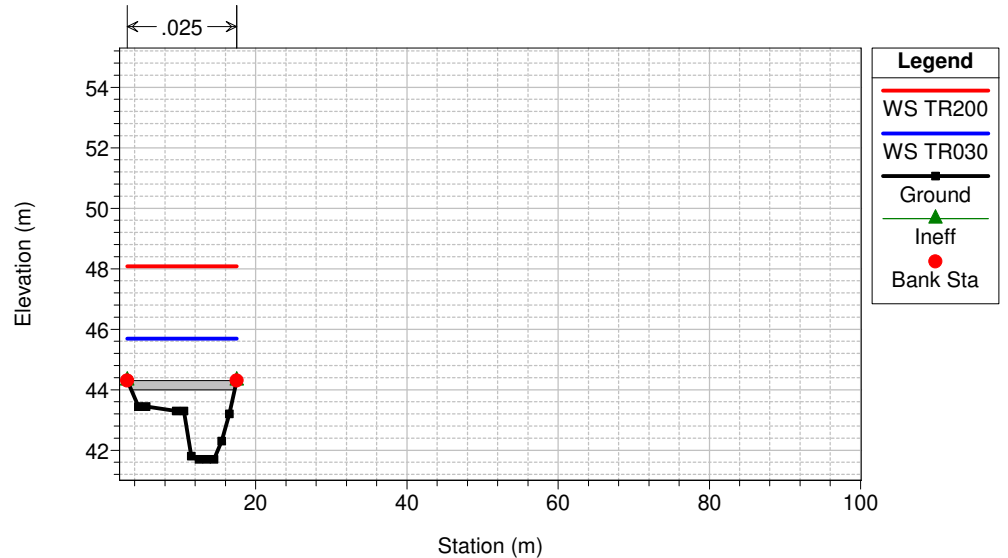
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 283 s280bis



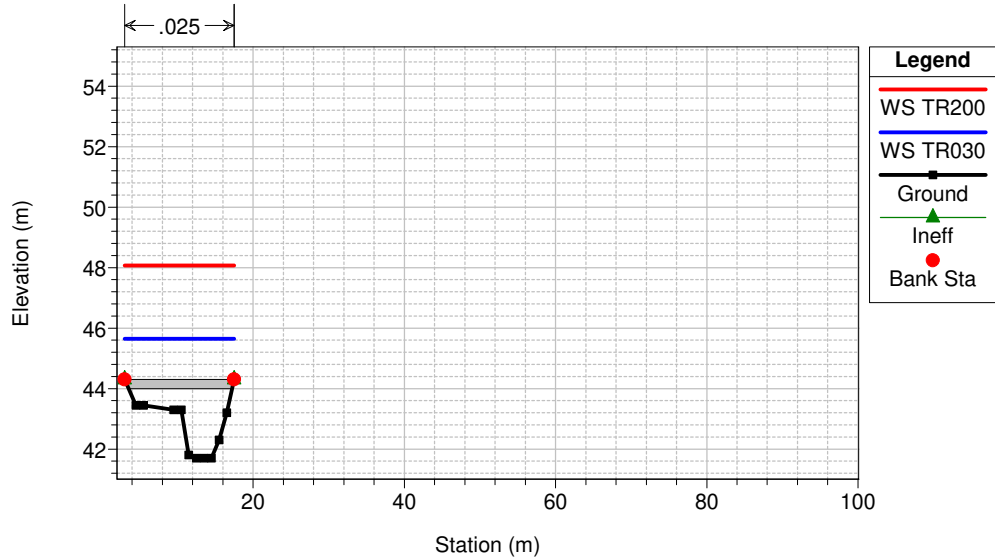
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 280 s280M



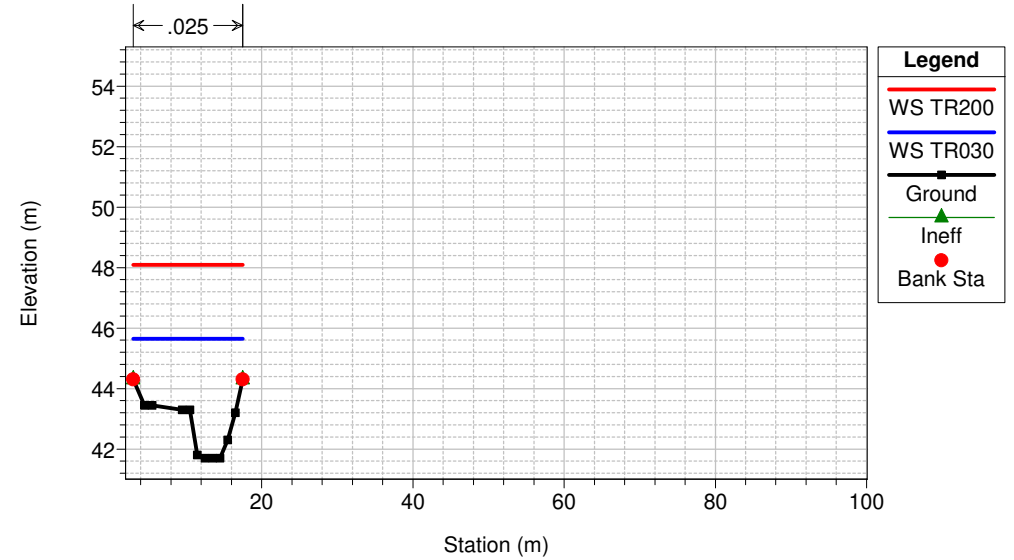
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 279 BR



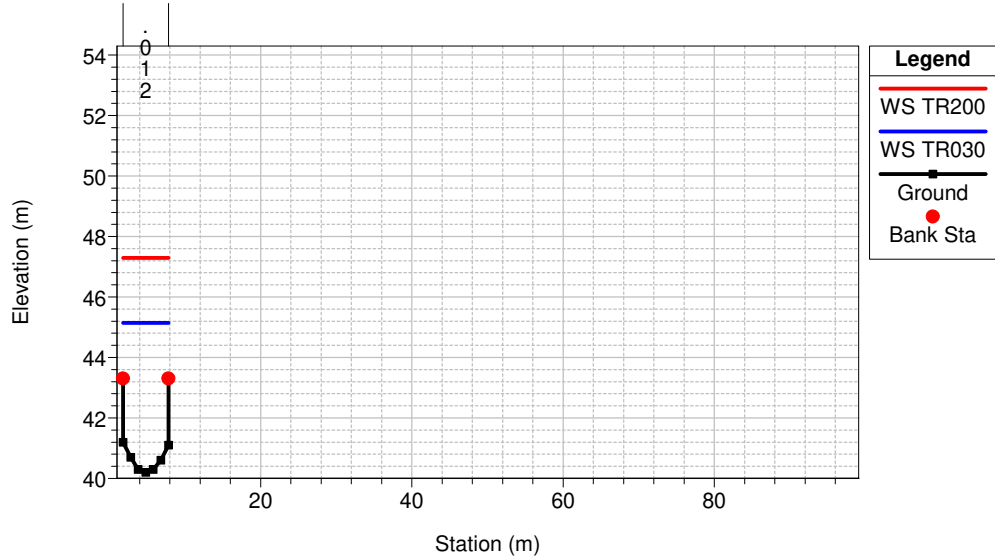
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 279 BR



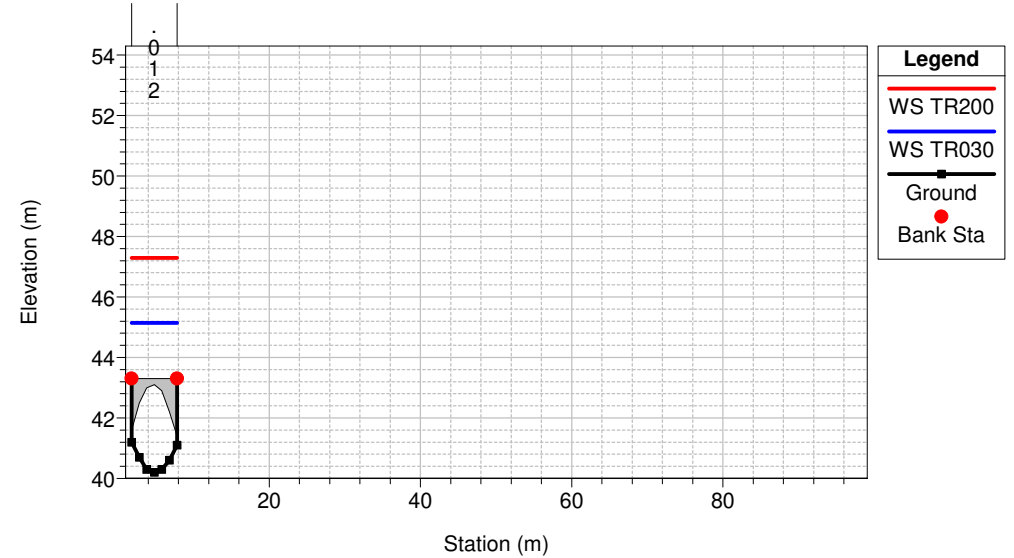
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 278 s280V



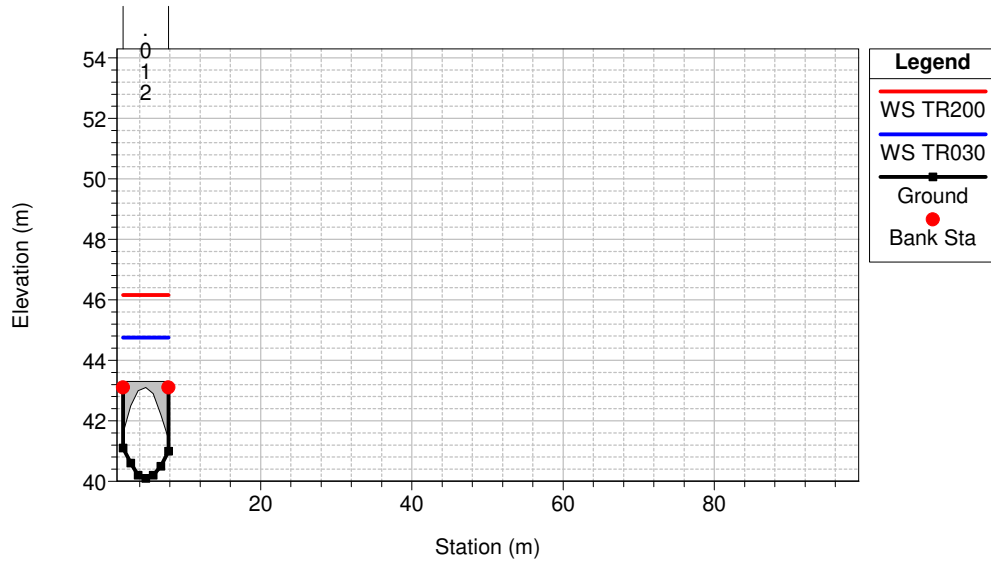
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 261



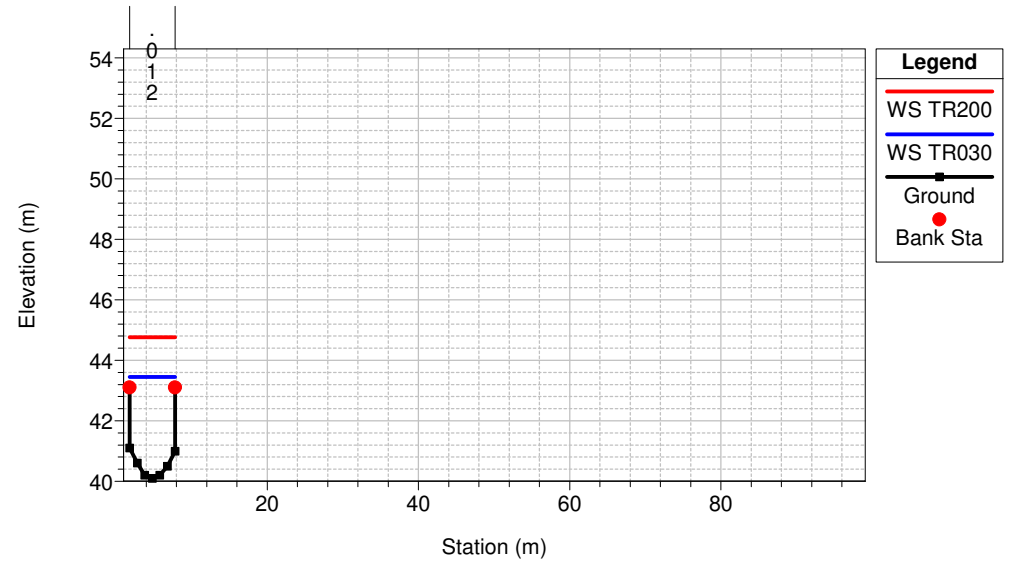
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 260 BR



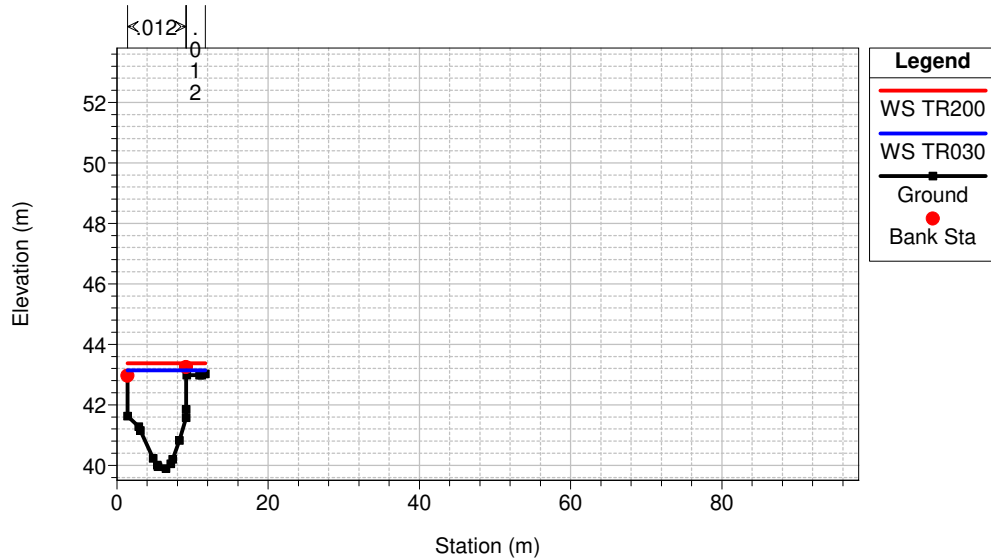
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 260 BR



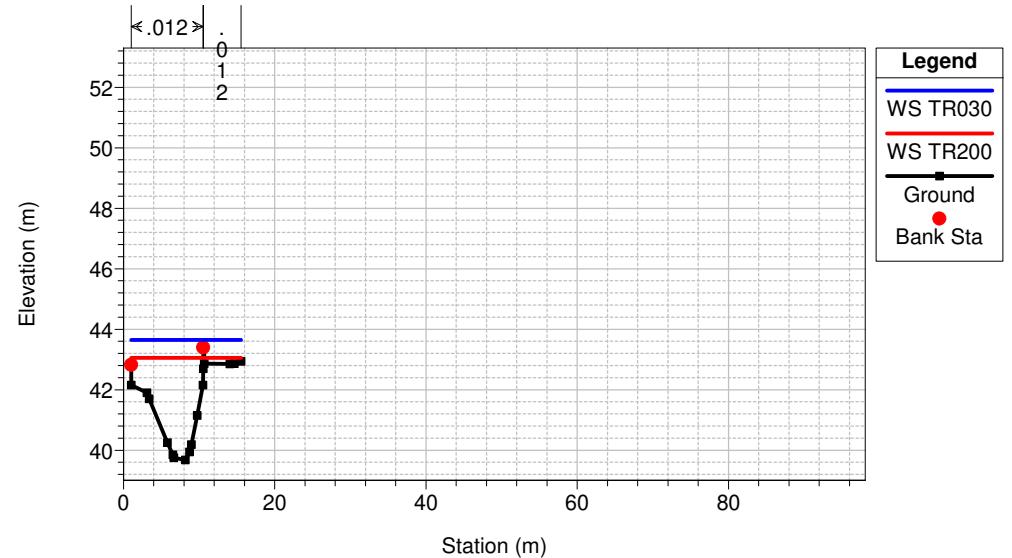
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 258 s260V

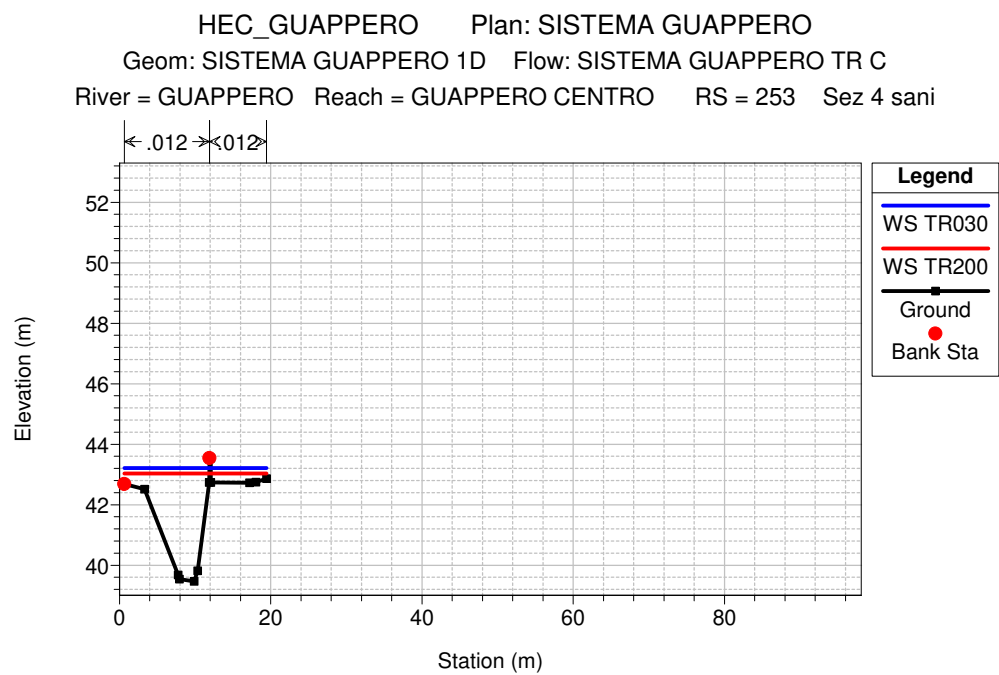
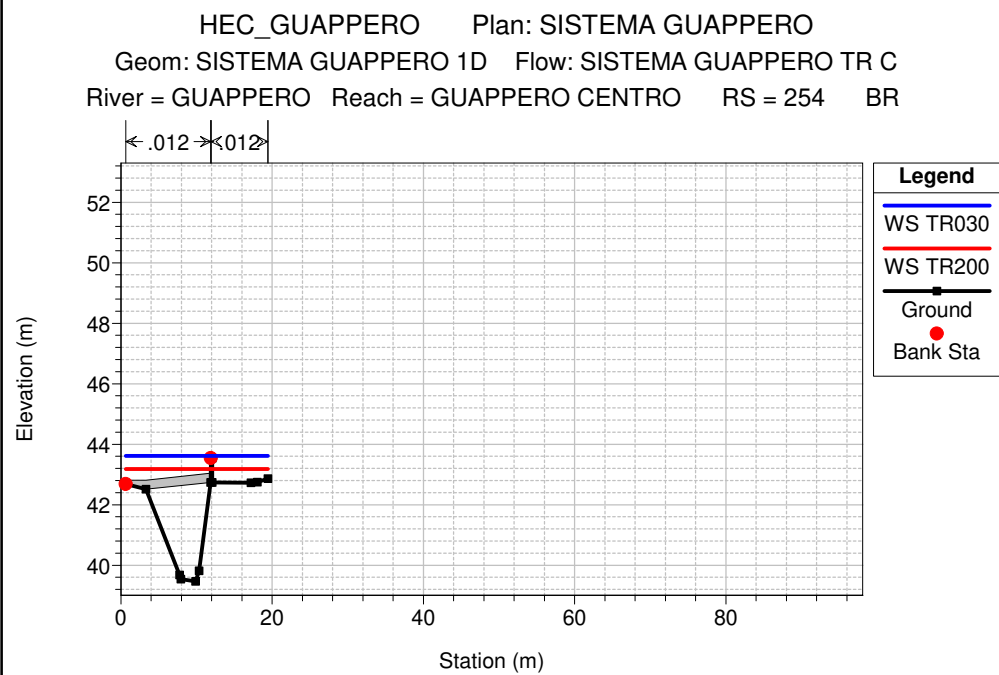
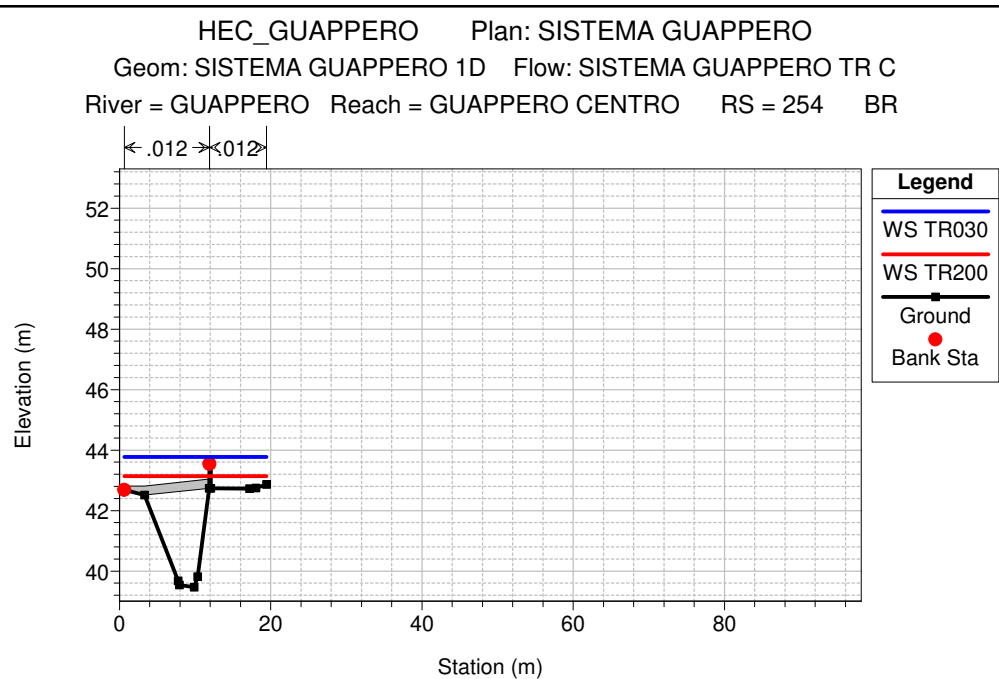
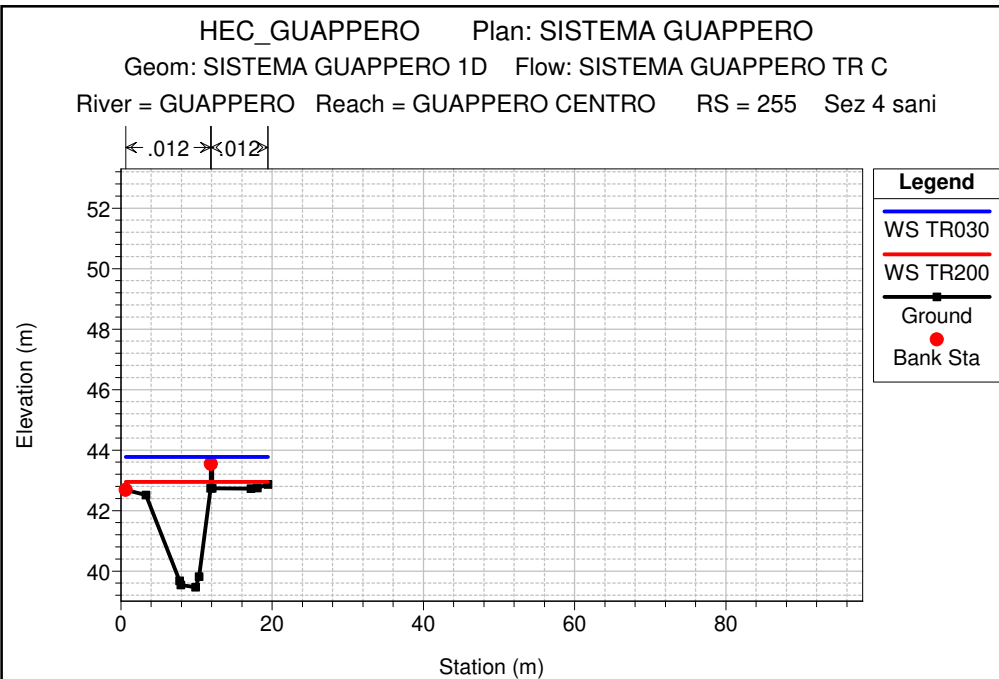


HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 257

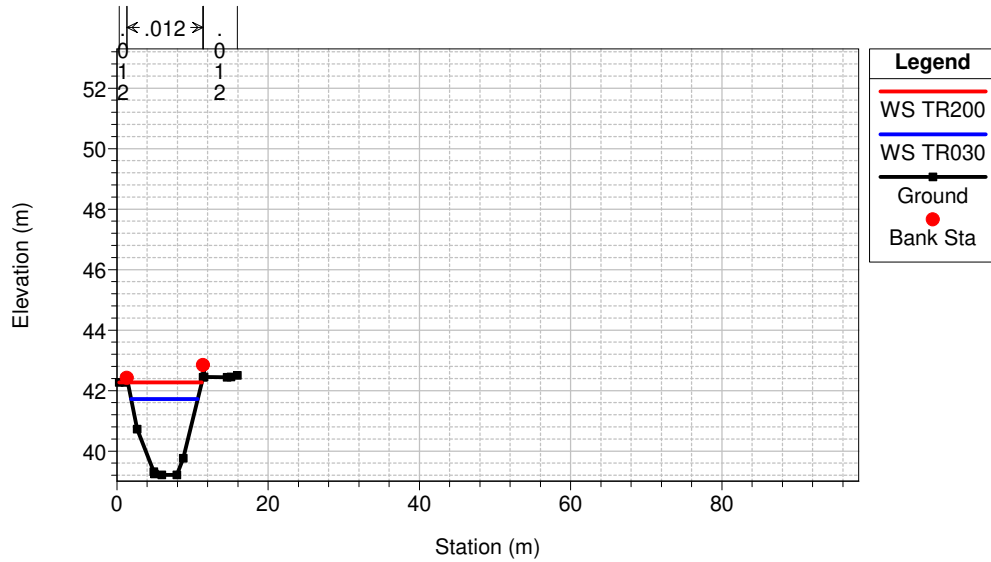


HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 256

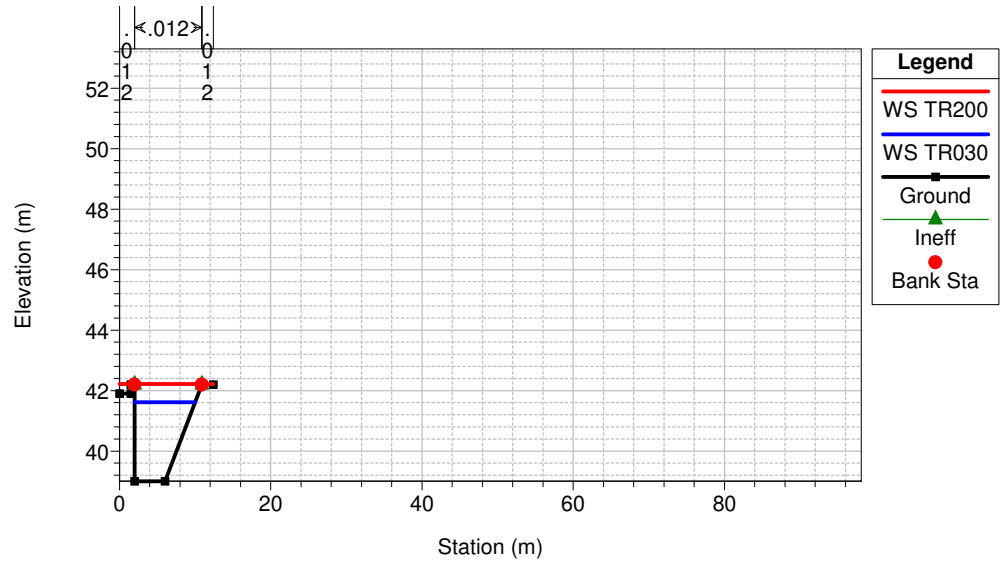




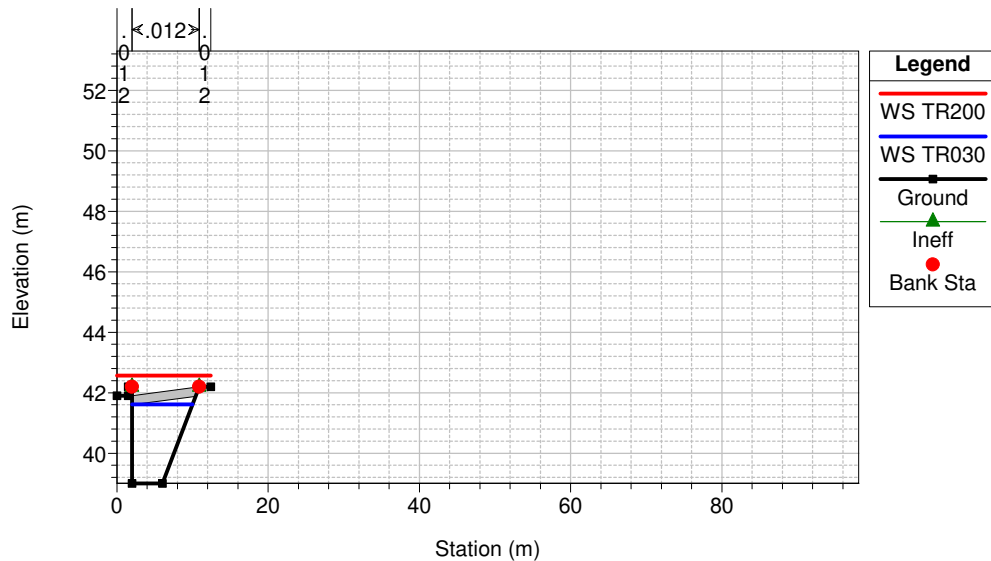
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 252



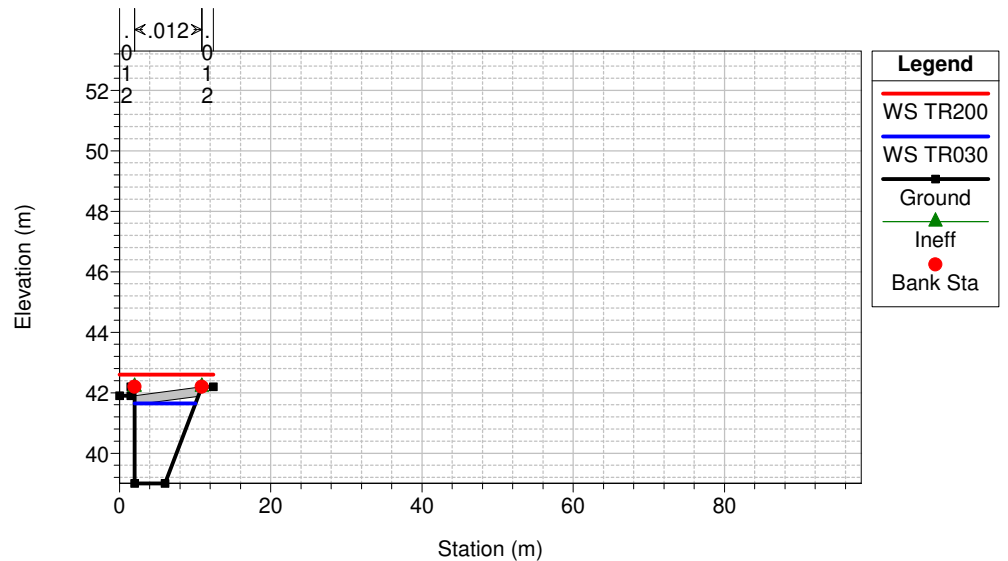
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 250 s250M



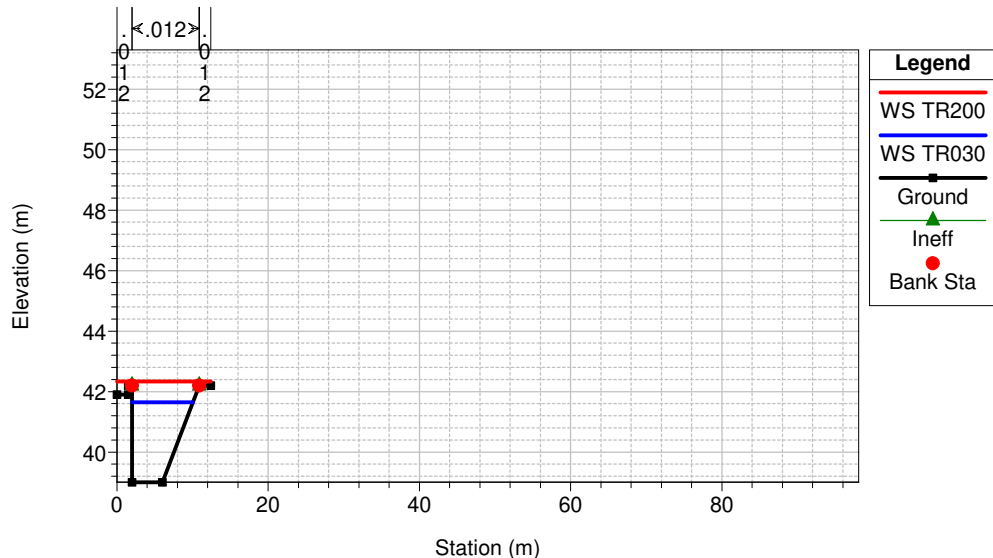
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 249 BR



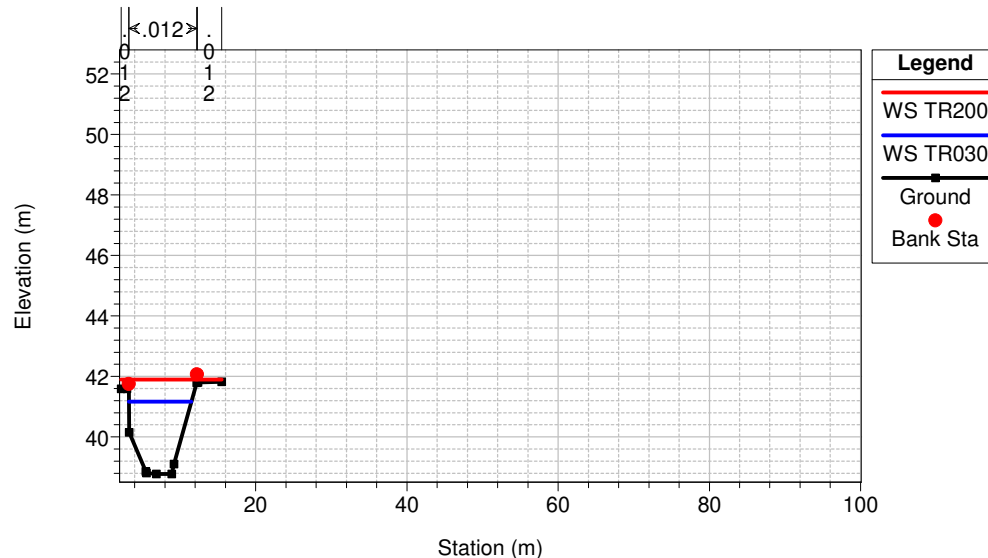
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 249 BR



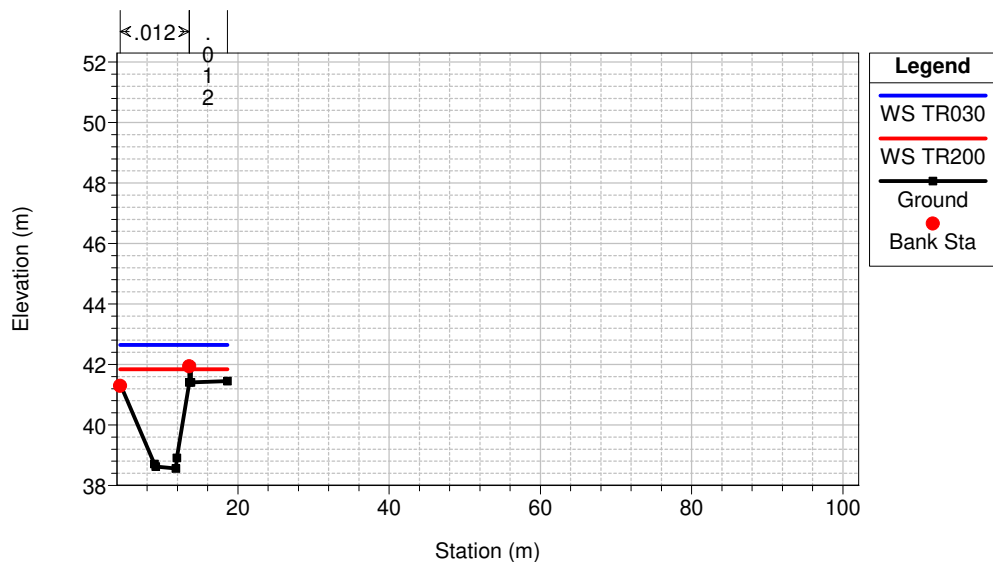
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 248 s250V



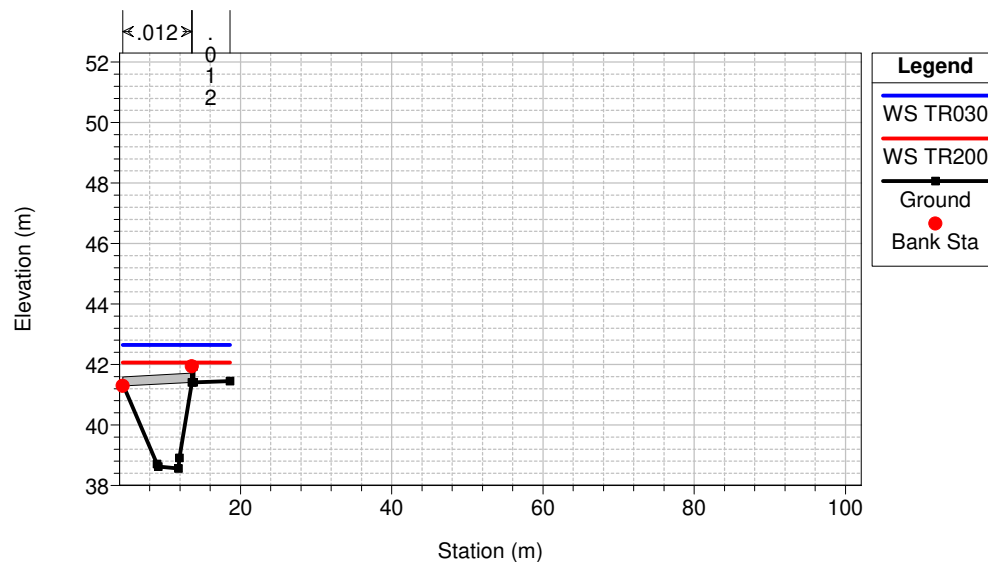
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 247



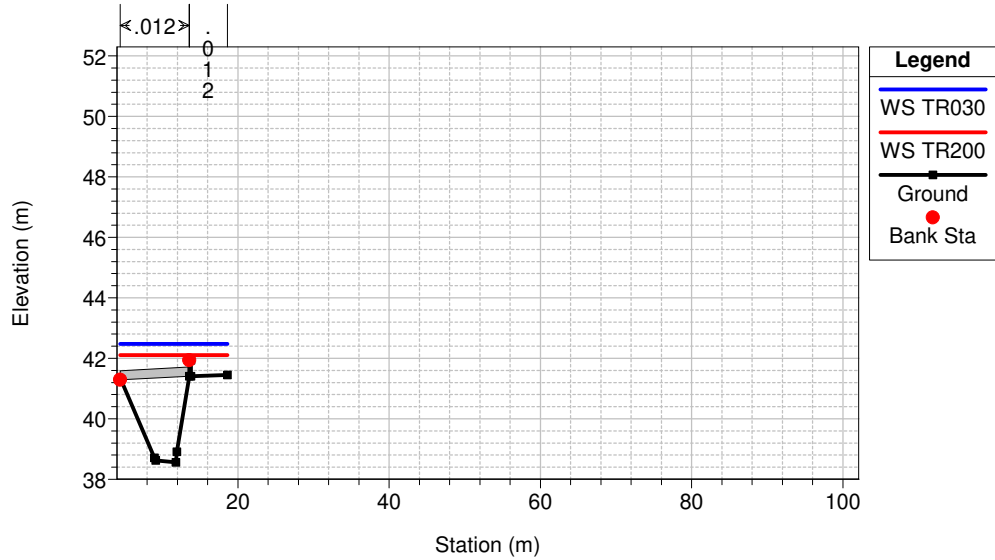
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 246 Sez 8 sani



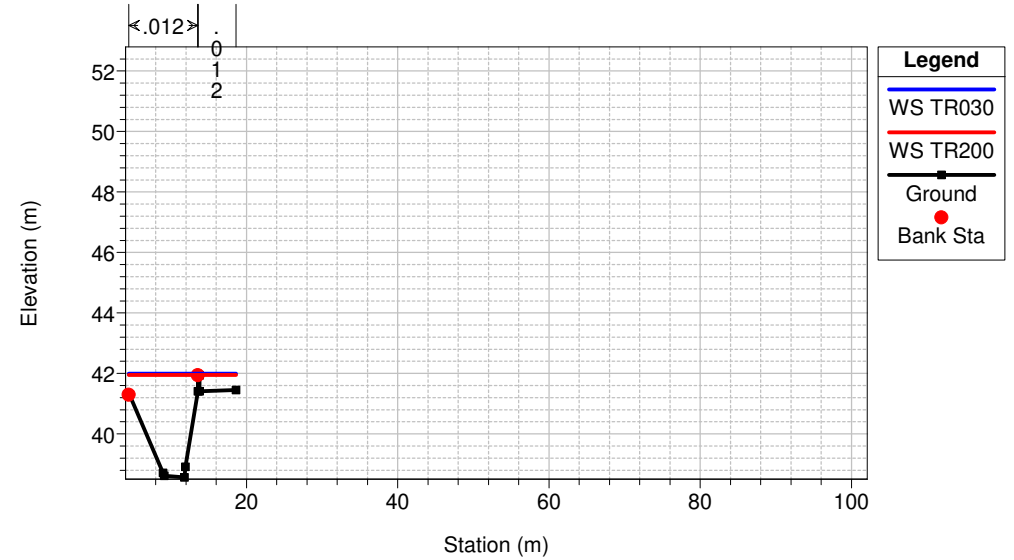
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 245 BR



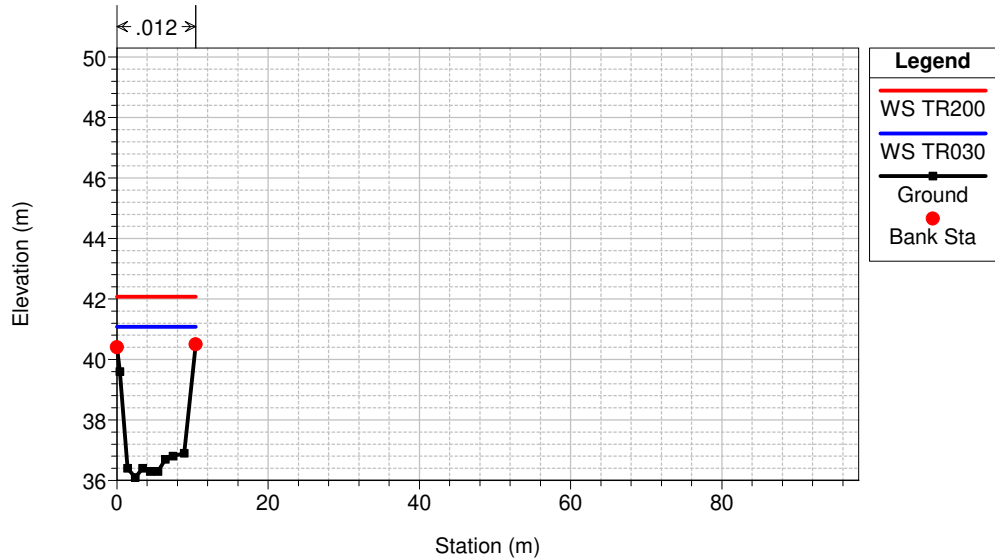
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 245 BR



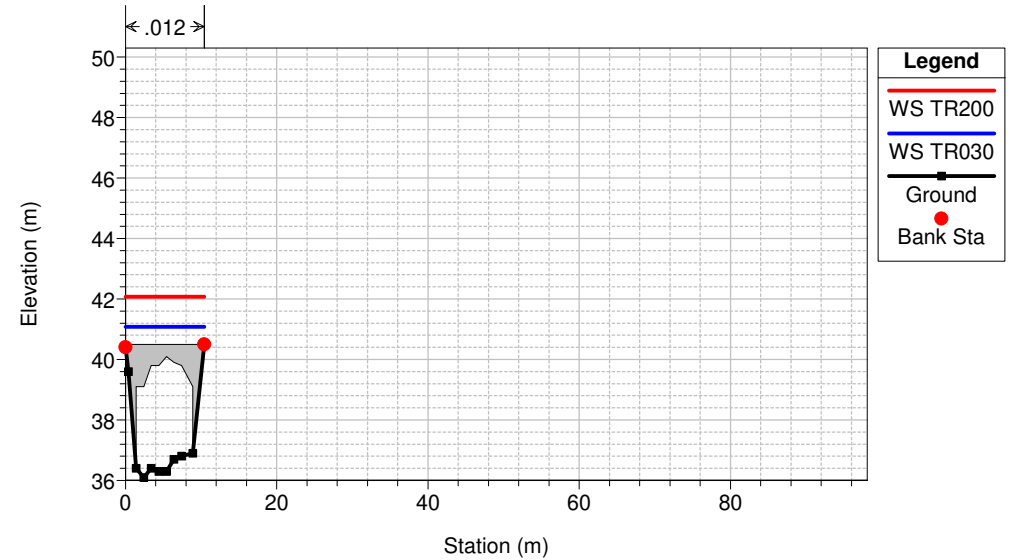
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 244 Sez 8 sani



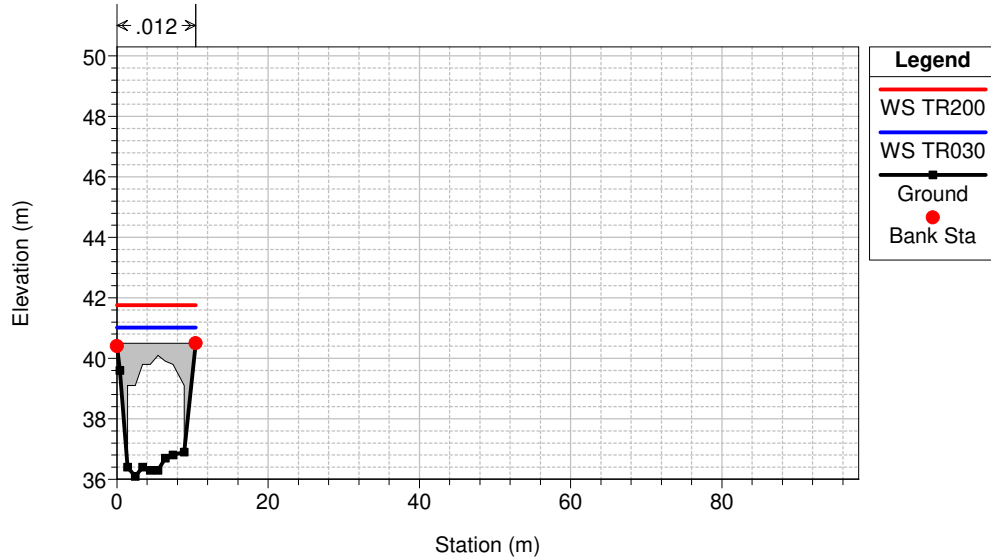
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 240 s240M



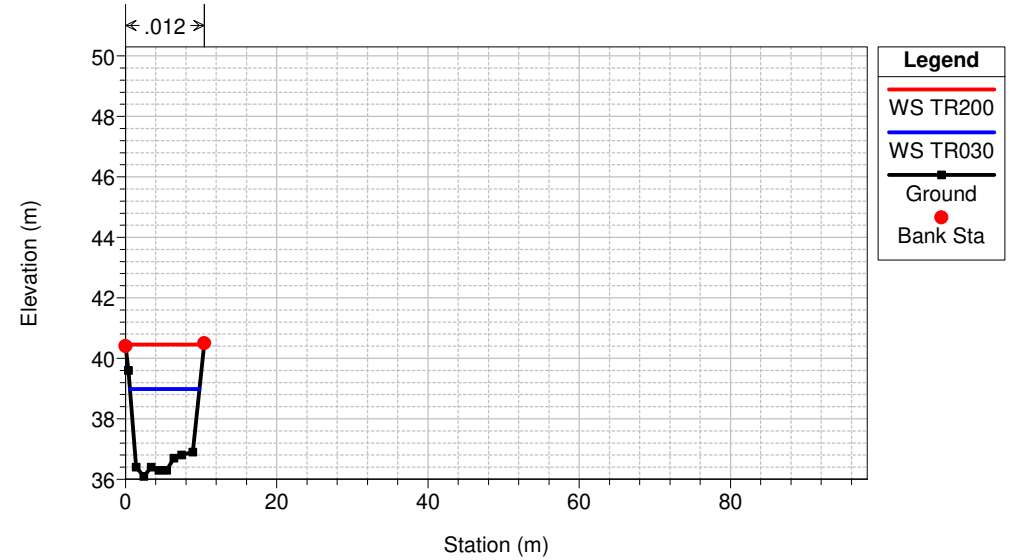
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 239 BR



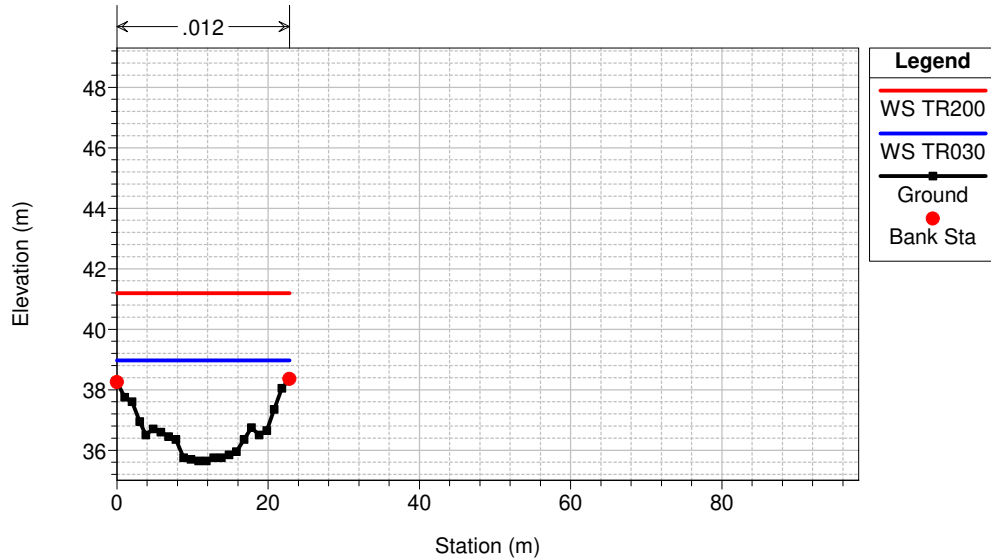
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 239 BR



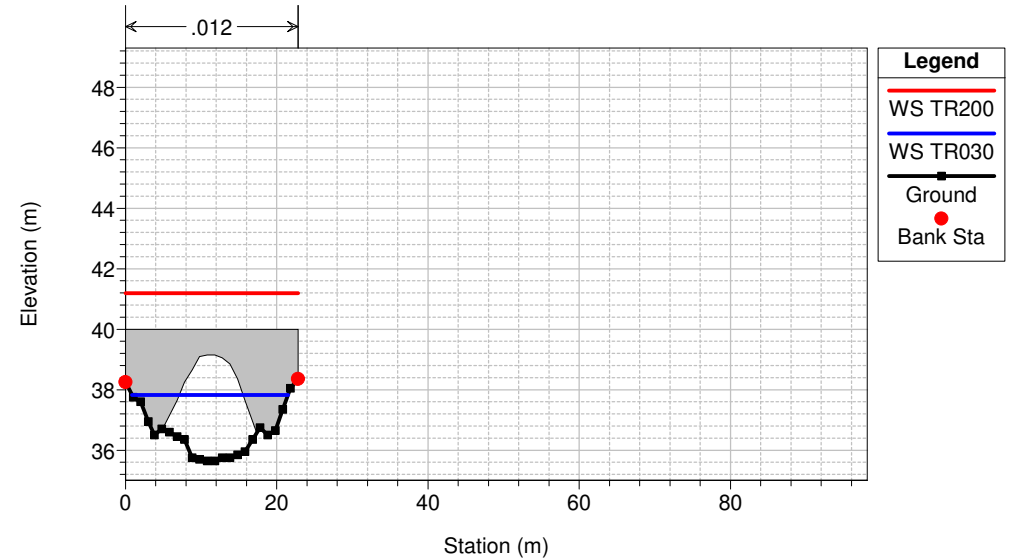
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 238 s240V



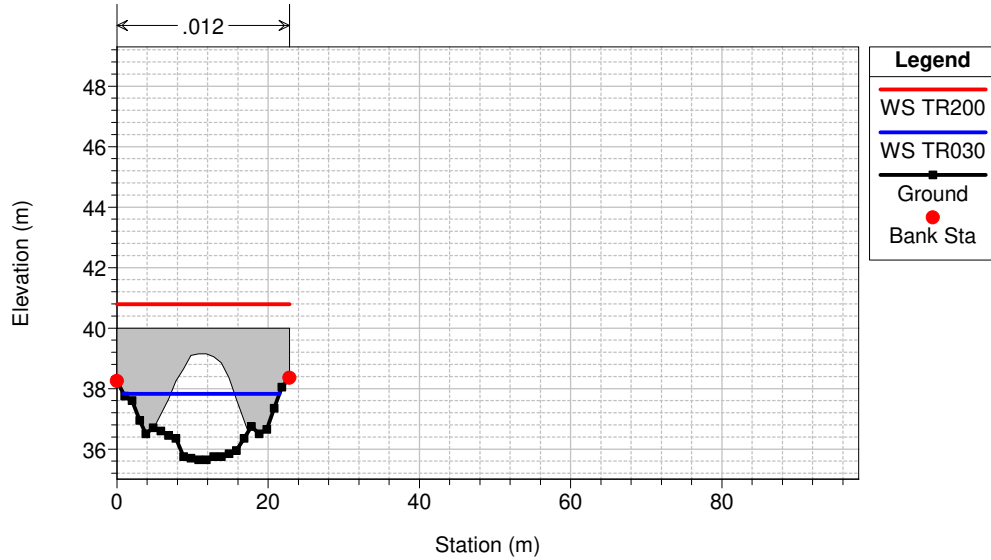
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 230 s230M



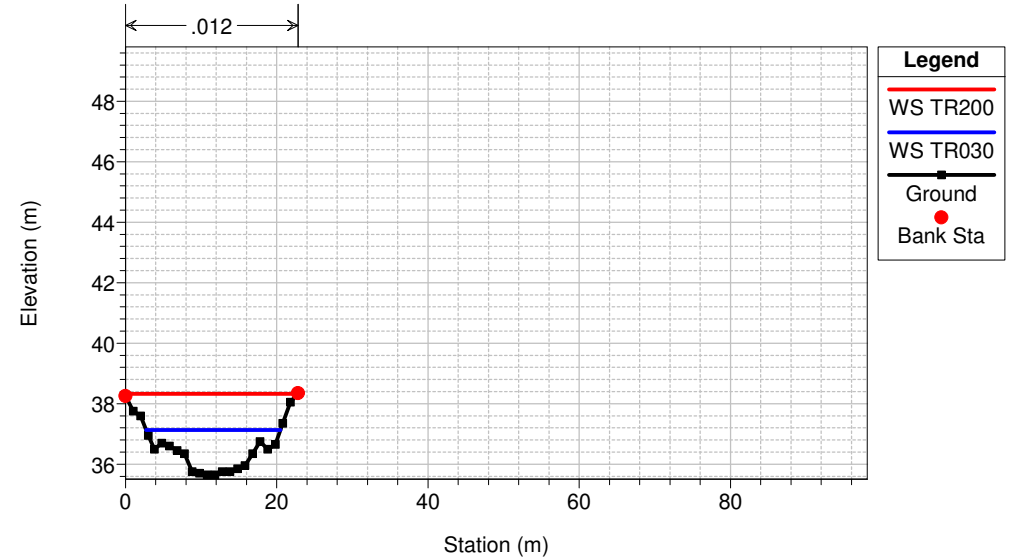
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 229 BR



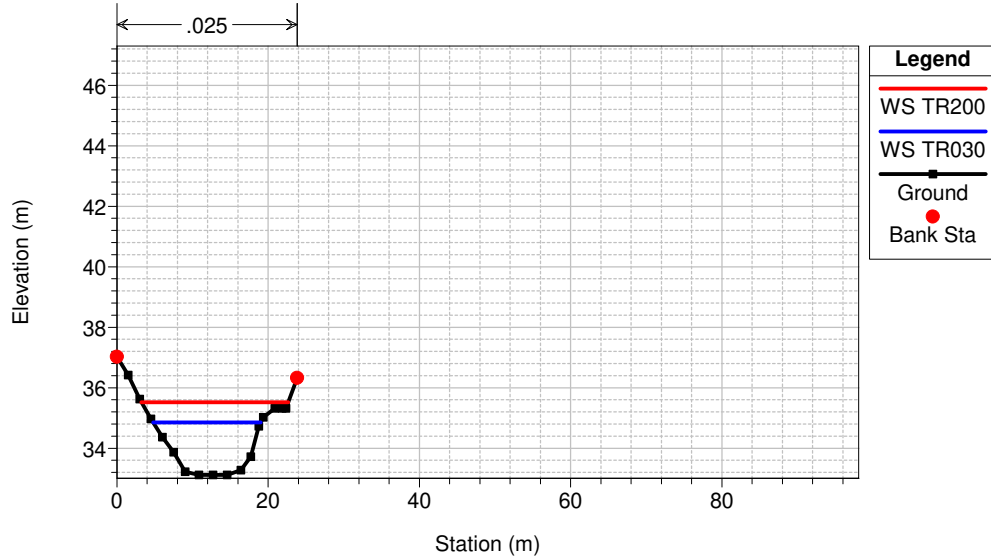
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 229 BR



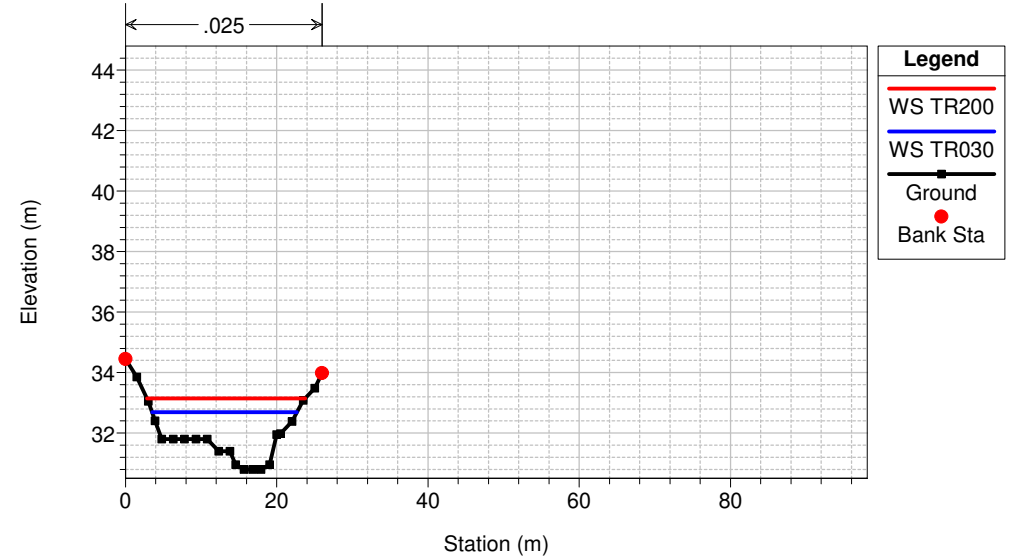
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 228 s230V



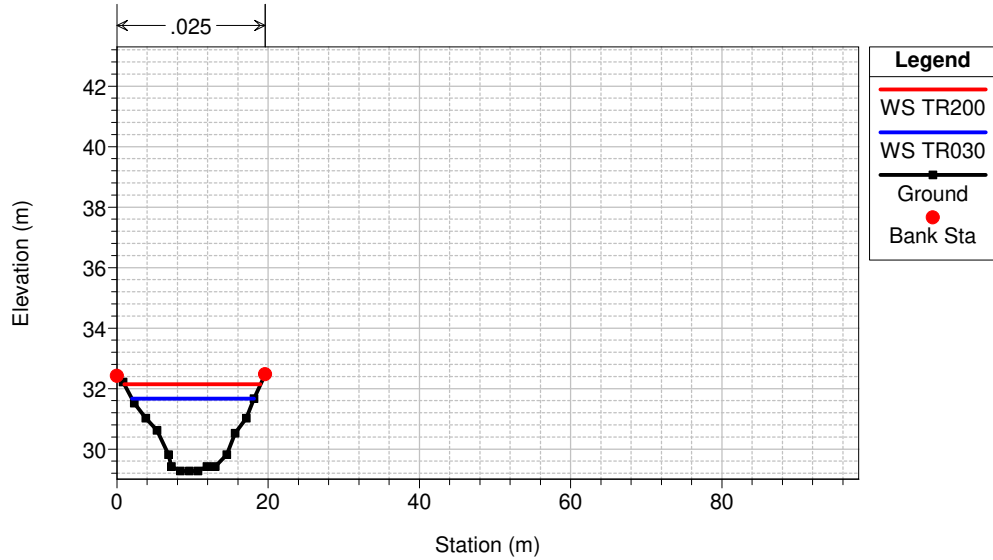
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 220 s220



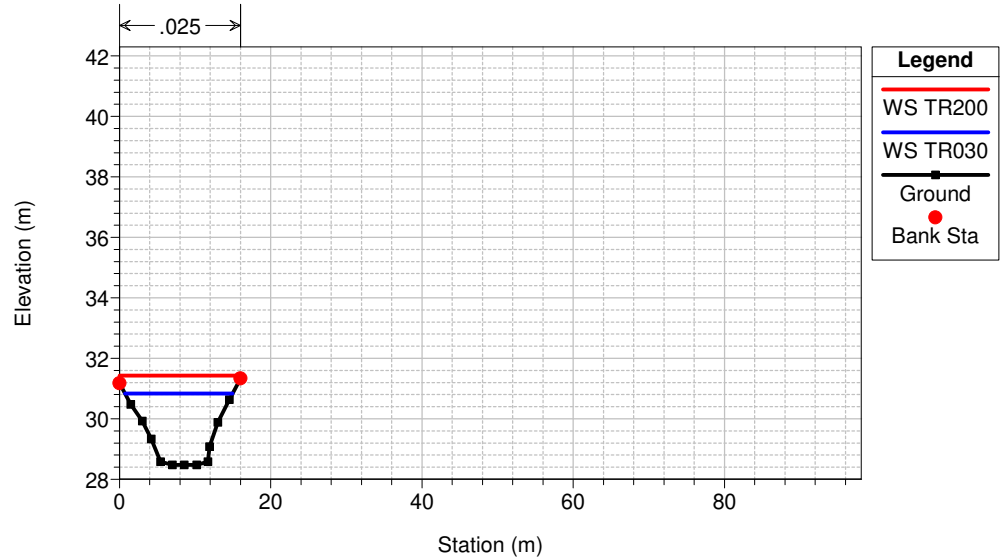
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 210 s210



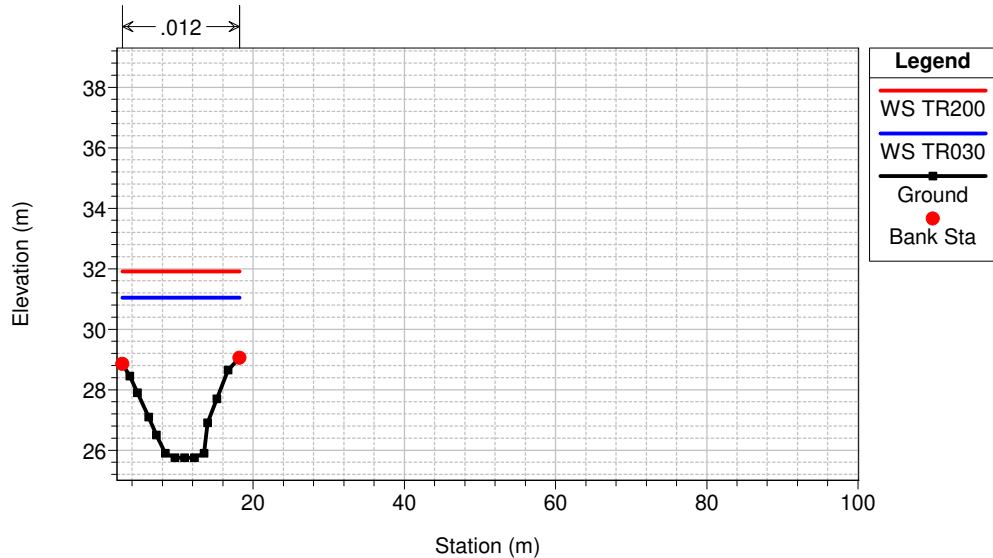
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 200 s200



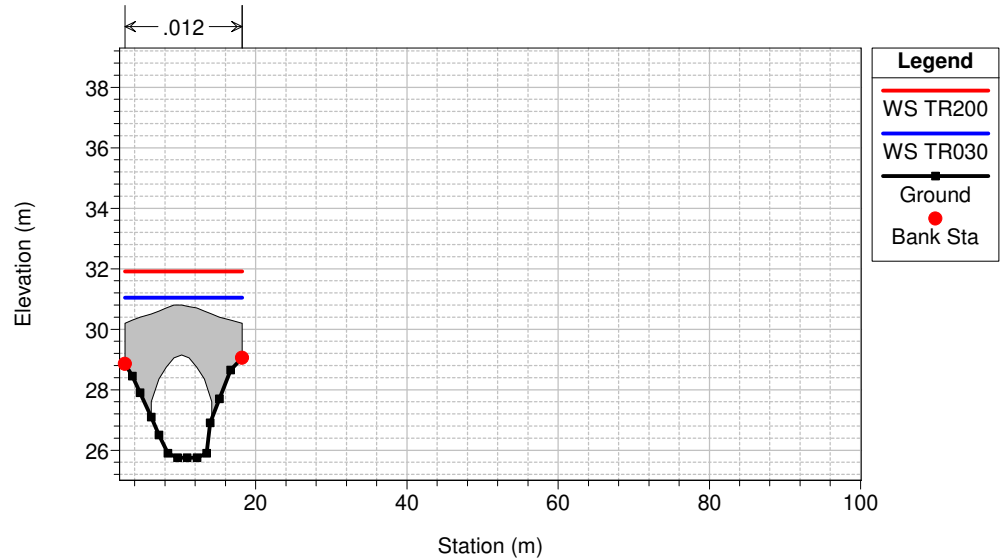
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 190 s190



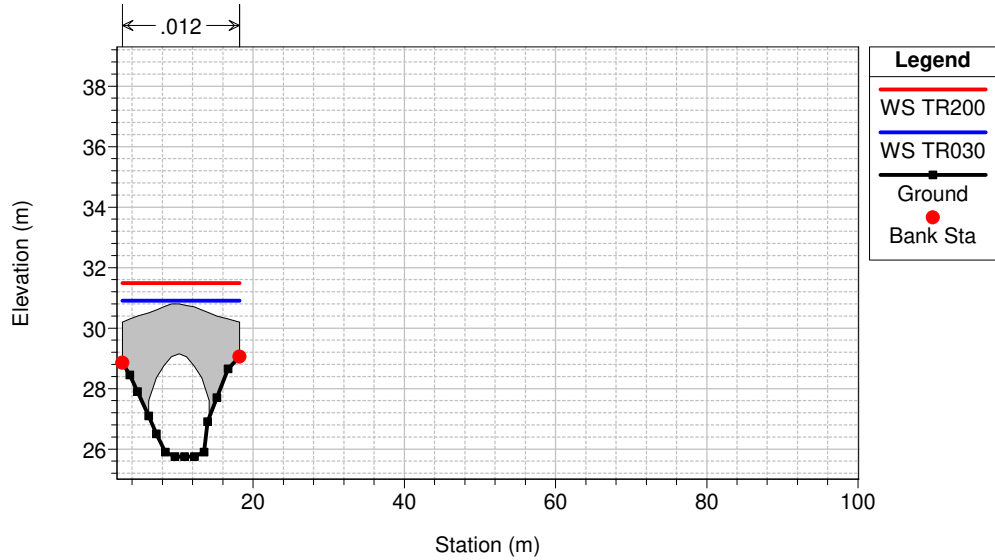
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 171 s170M



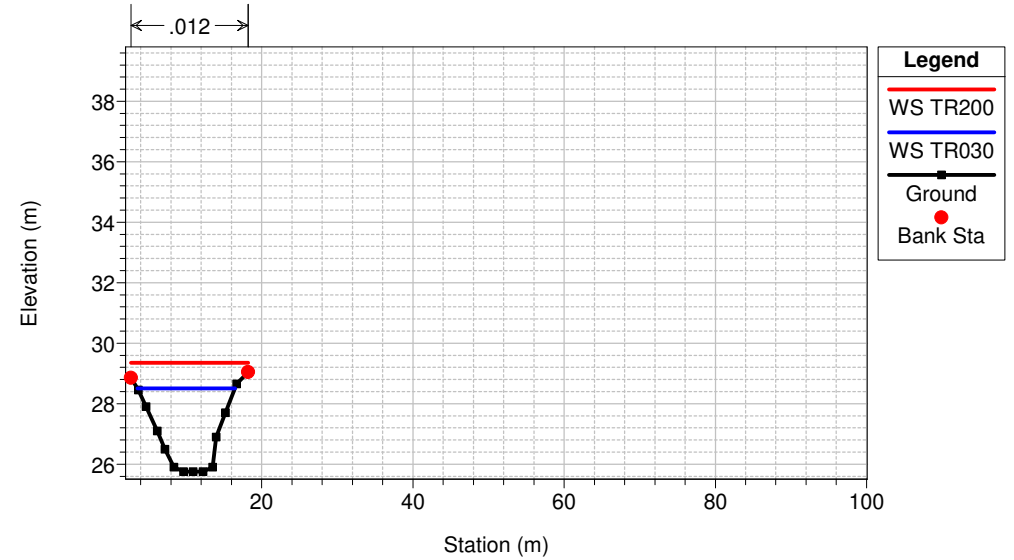
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 170 BR



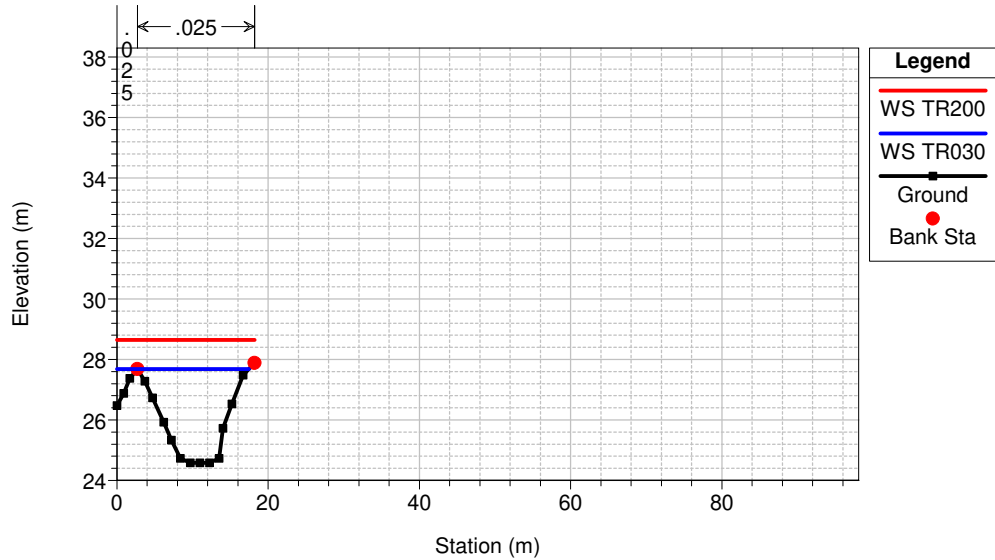
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 170 BR



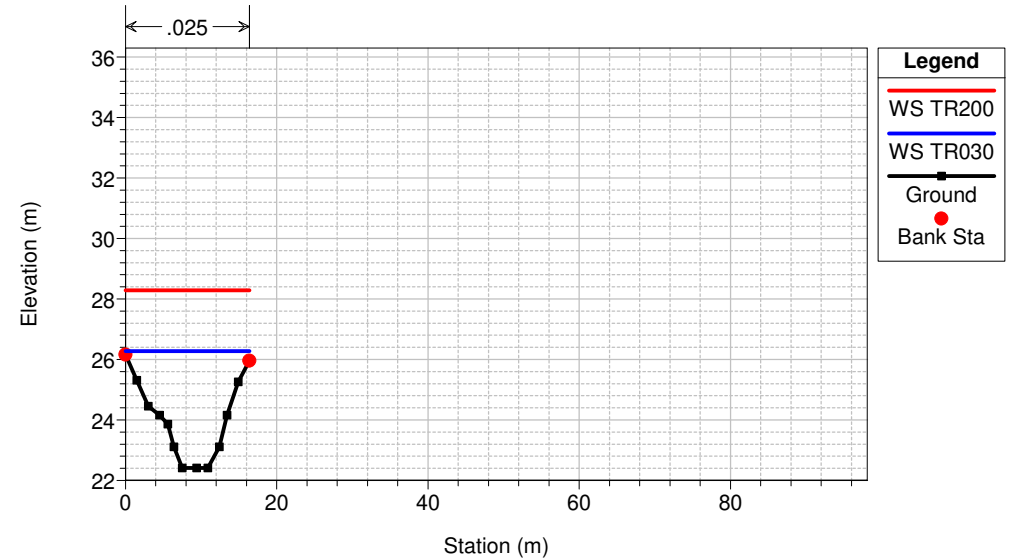
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO CENTRO RS = 165 s170V



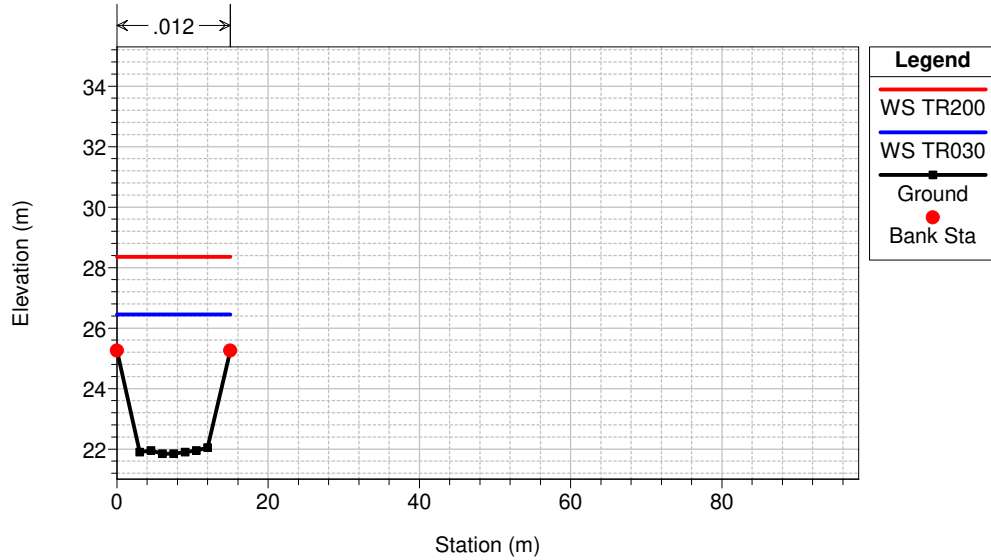
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO VALLE RS = 160 s160



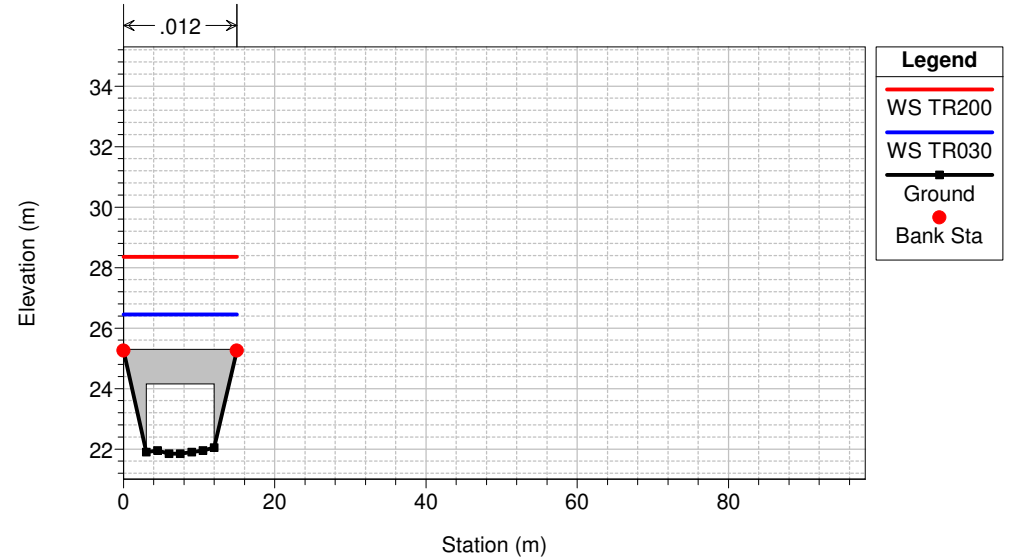
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO VALLE RS = 150 s150



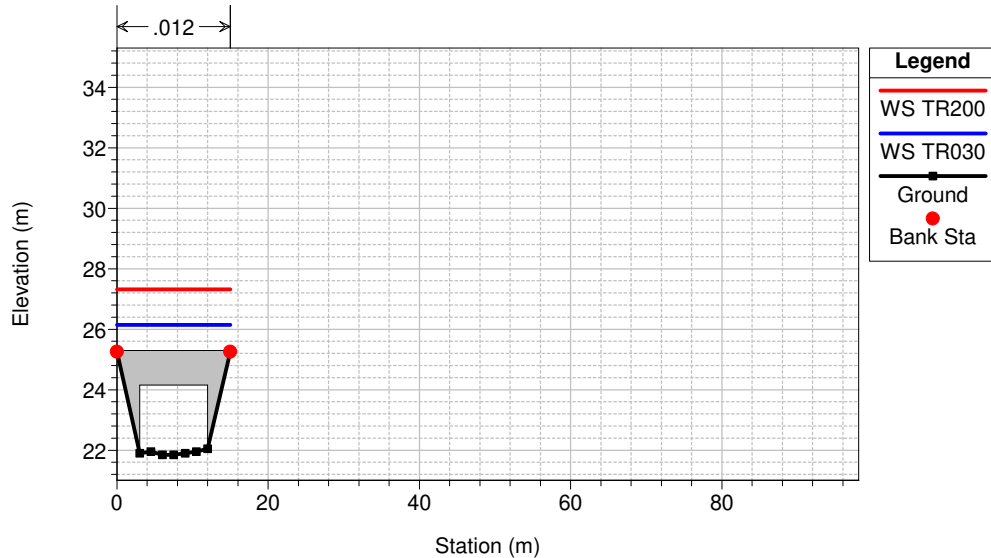
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO VALLE RS = 141 s140M



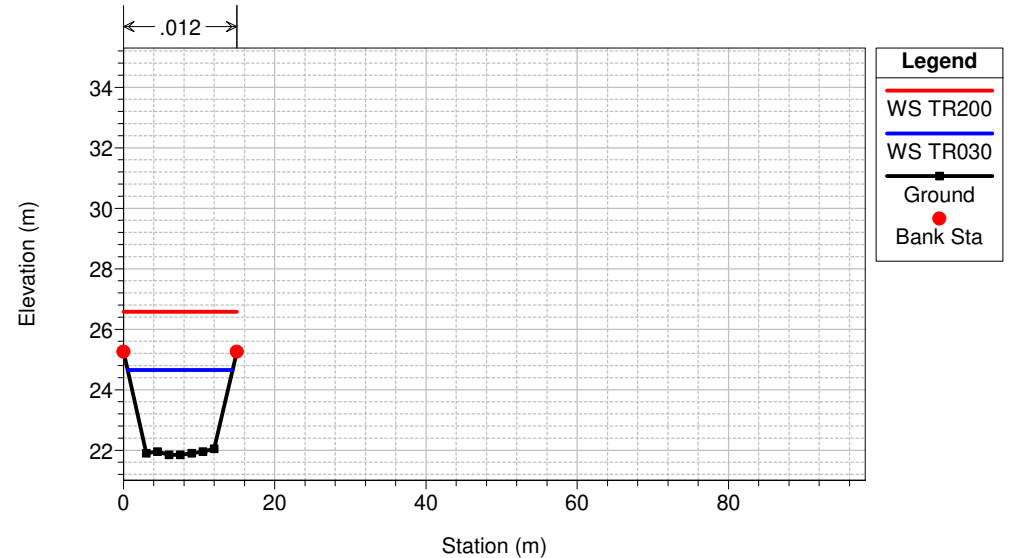
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO VALLE RS = 140 BR



HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO VALLE RS = 140 BR



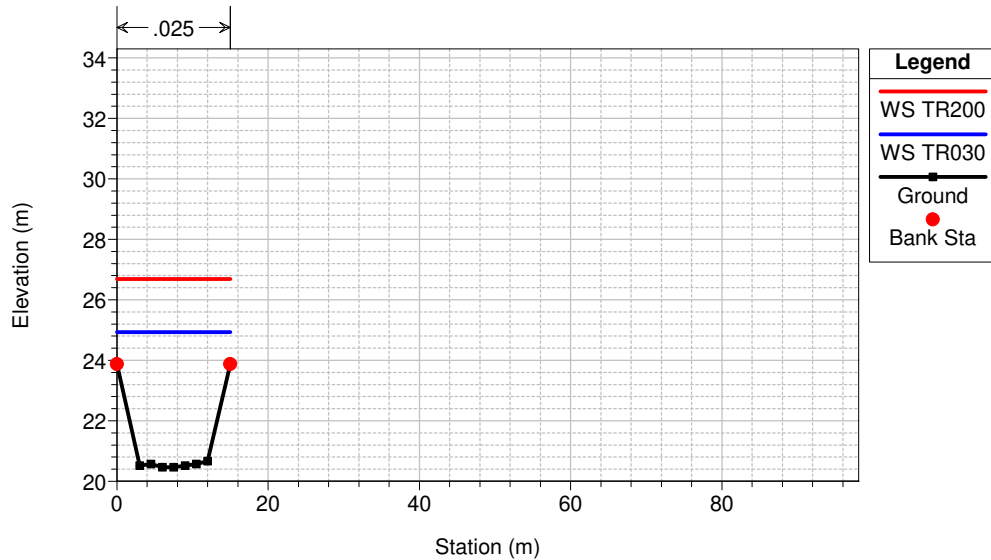
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = GUAPPERO Reach = GUAPPERO VALLE RS = 137 s140M



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

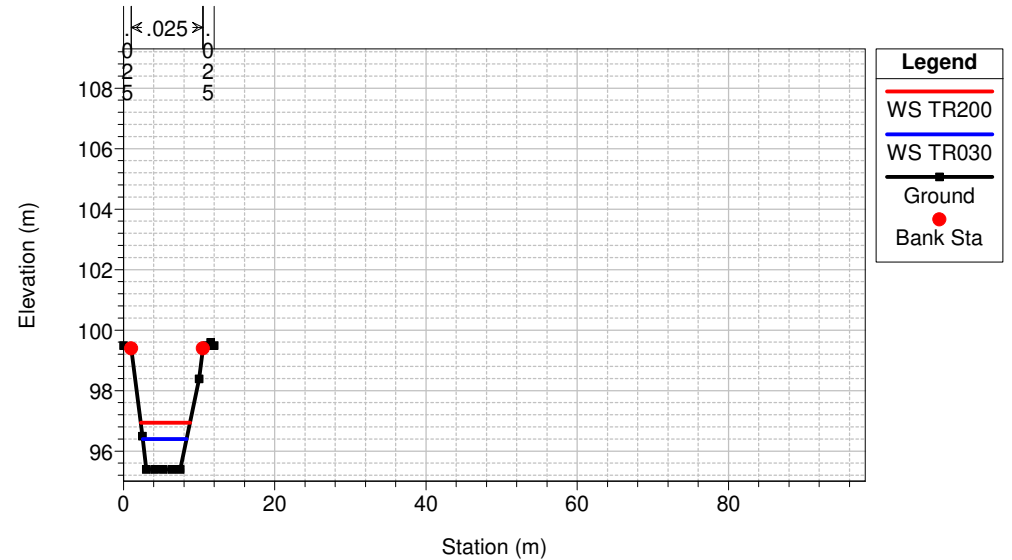
River = GUAPPERO Reach = GUAPPERO VALLE RS = 135 sezione prima dei Bottacci (prima della sez.130)



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

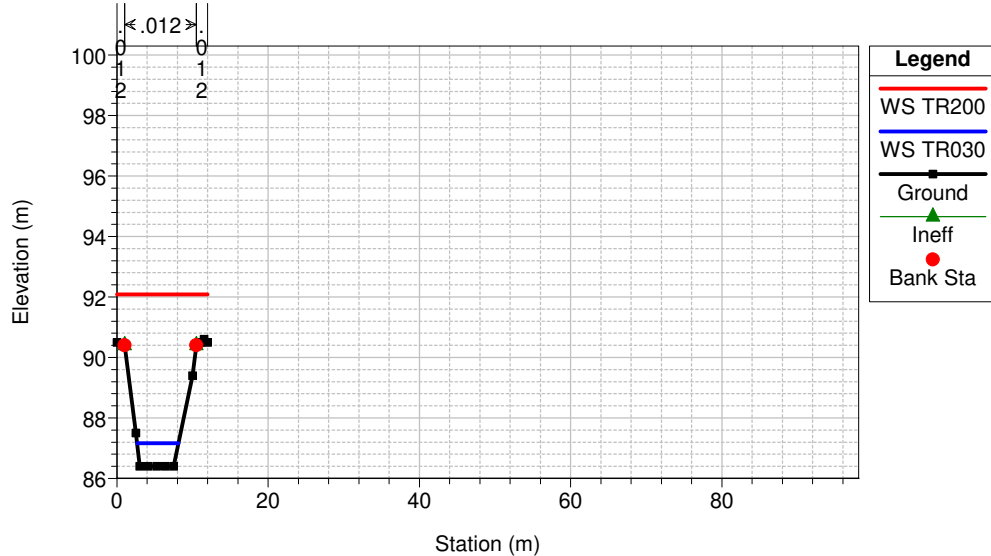
River = PANTALEONE Reach = PANTALEONE RS = 135 SEZIONE DI PROLUNGAMENTO



HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

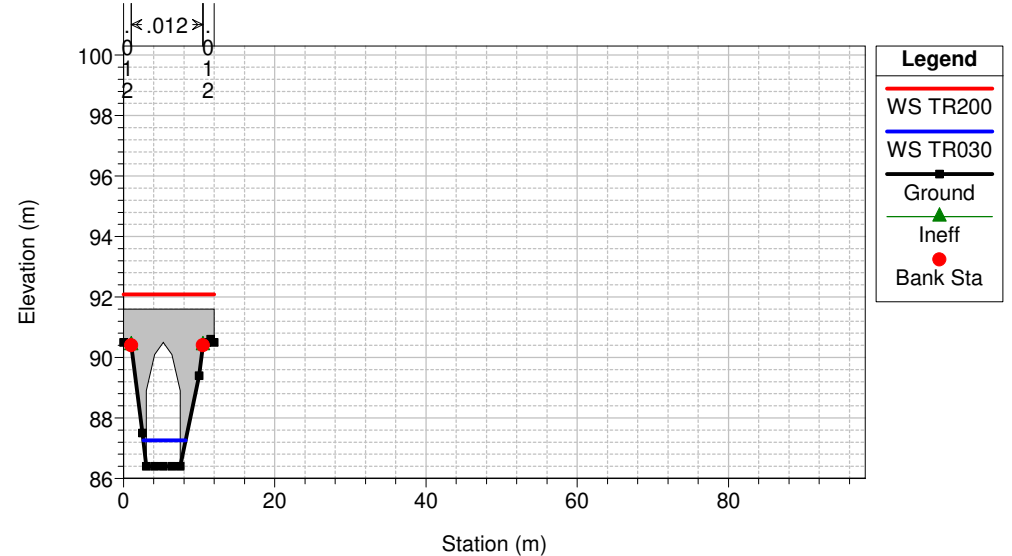
River = PANTALEONE Reach = PANTALEONE RS = 130 s130M



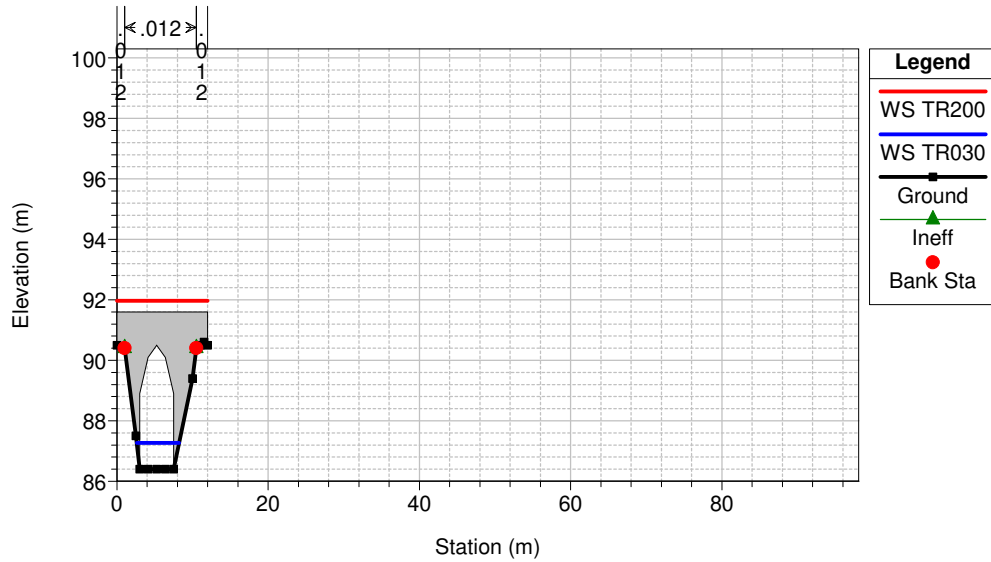
HEC_GUAPPERO Plan: SISTEMA GUAPPERO

Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C

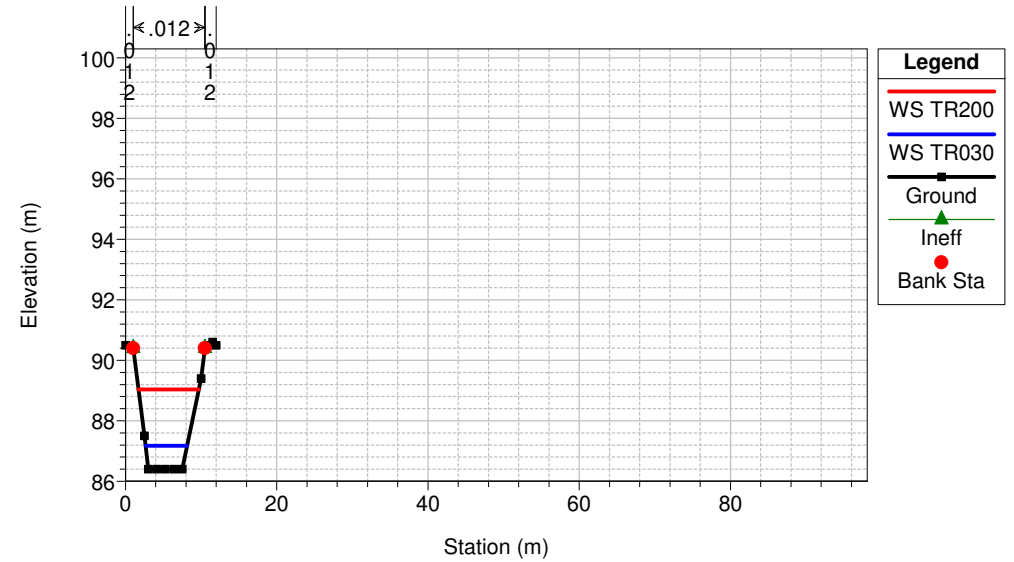
River = PANTALEONE Reach = PANTALEONE RS = 129 BR



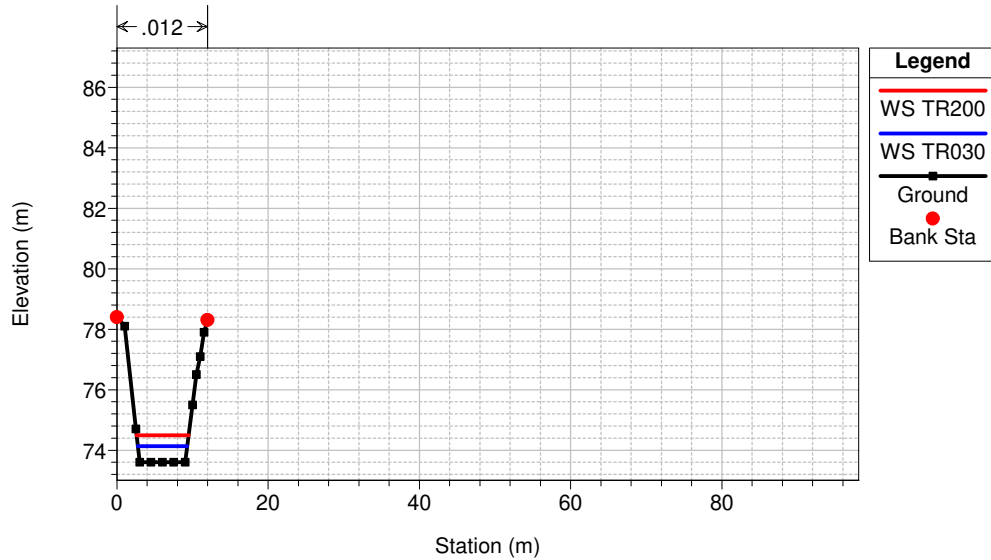
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 129 BR



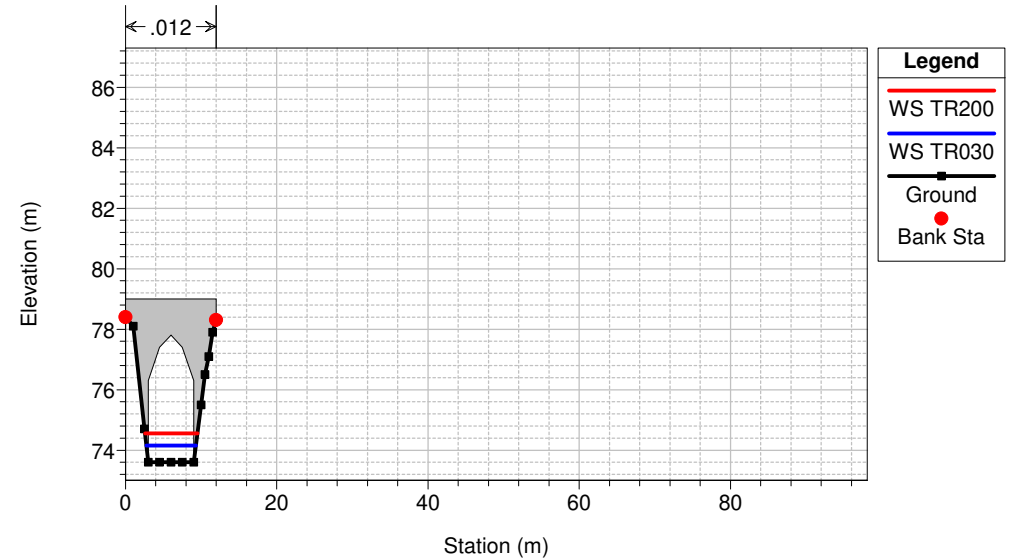
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 128 s130V



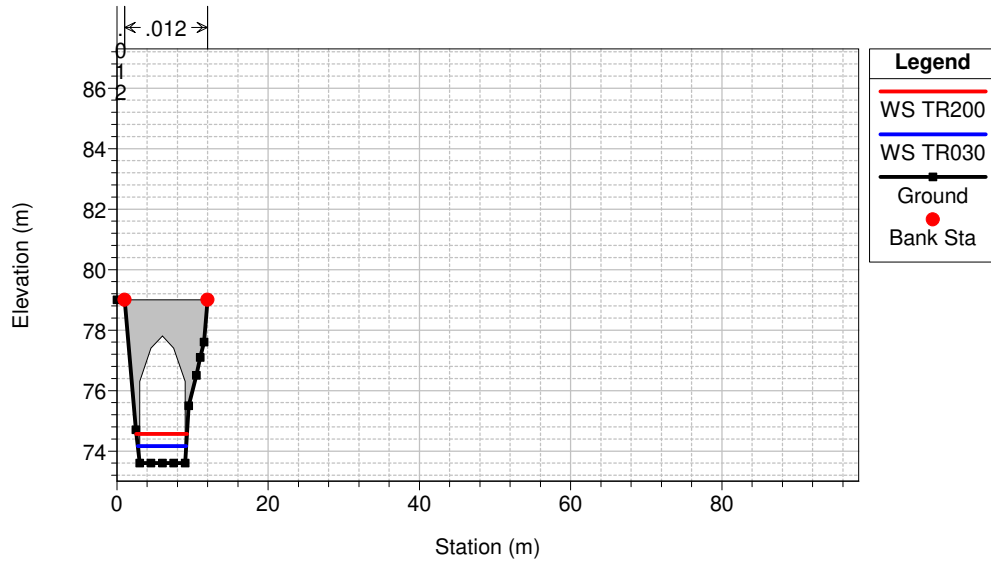
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 120 120M



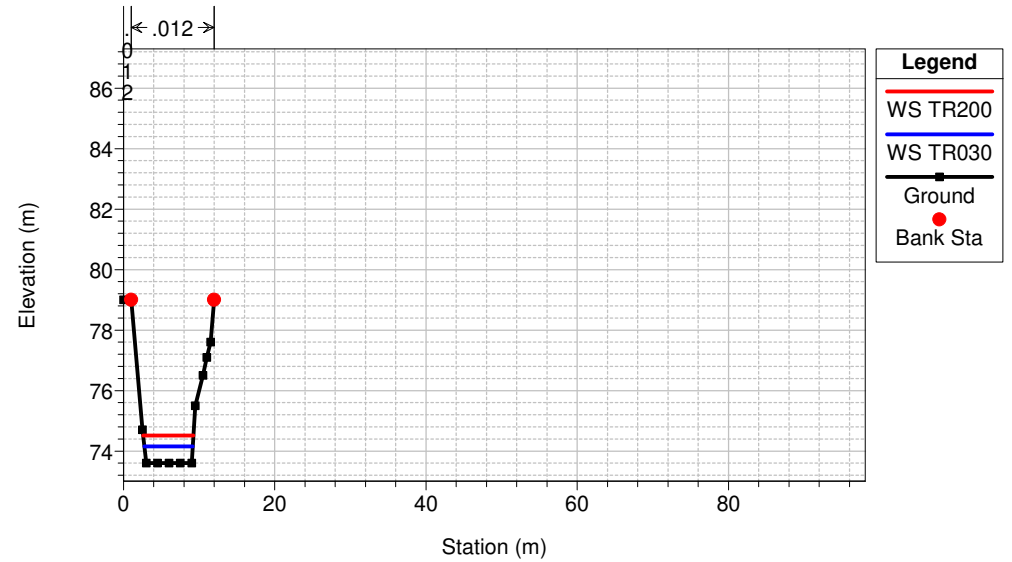
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 119 BR



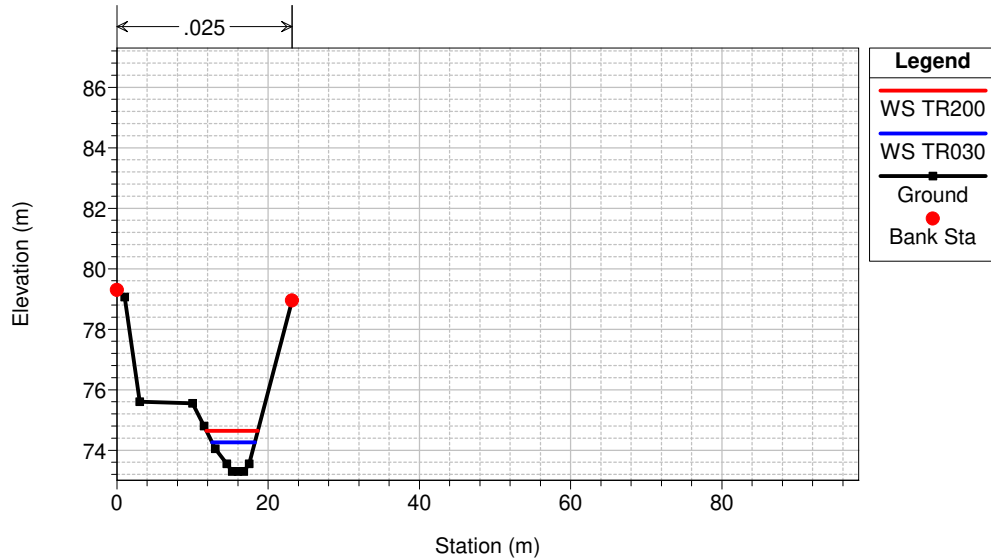
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 119 BR



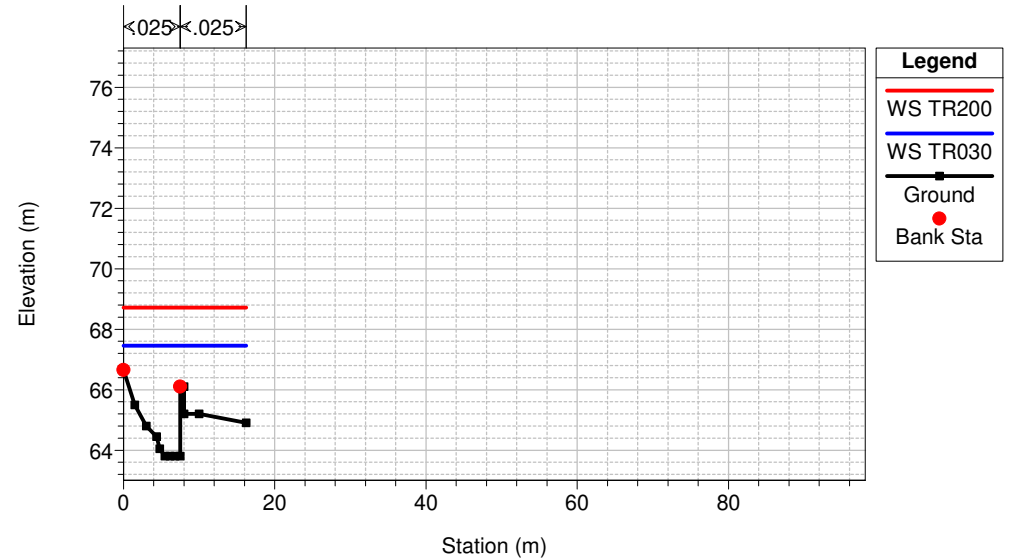
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 118 120V



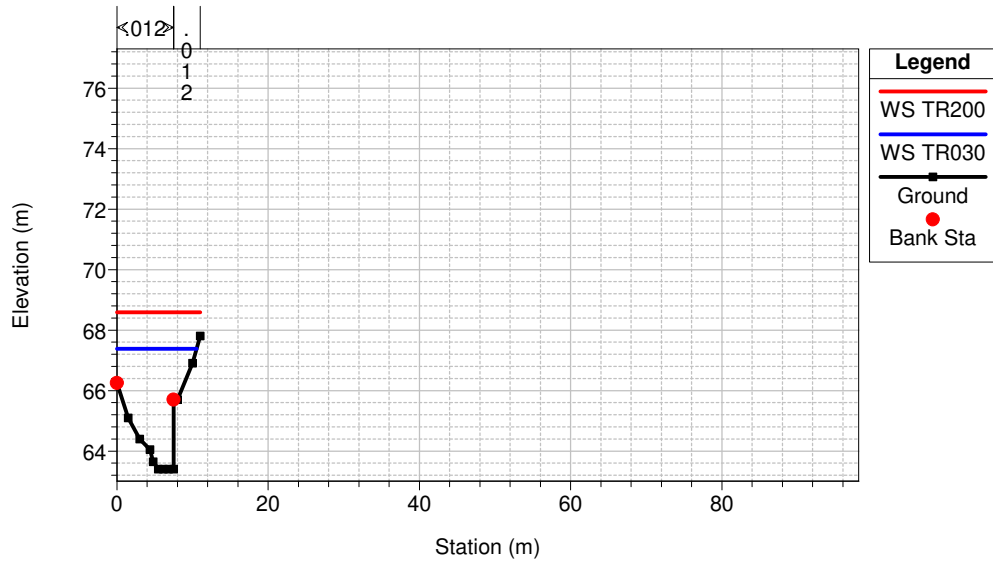
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 110 s110



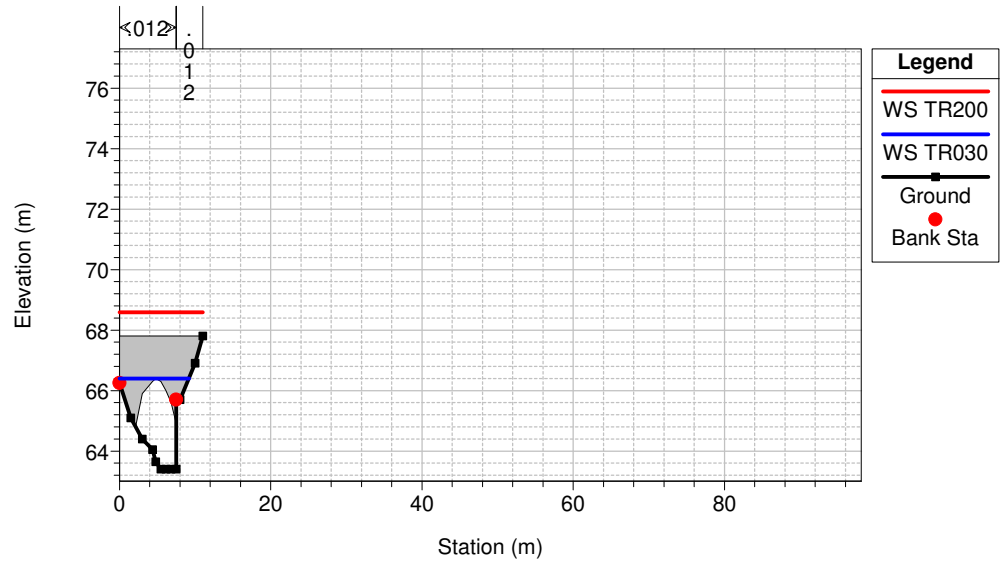
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 100 s100



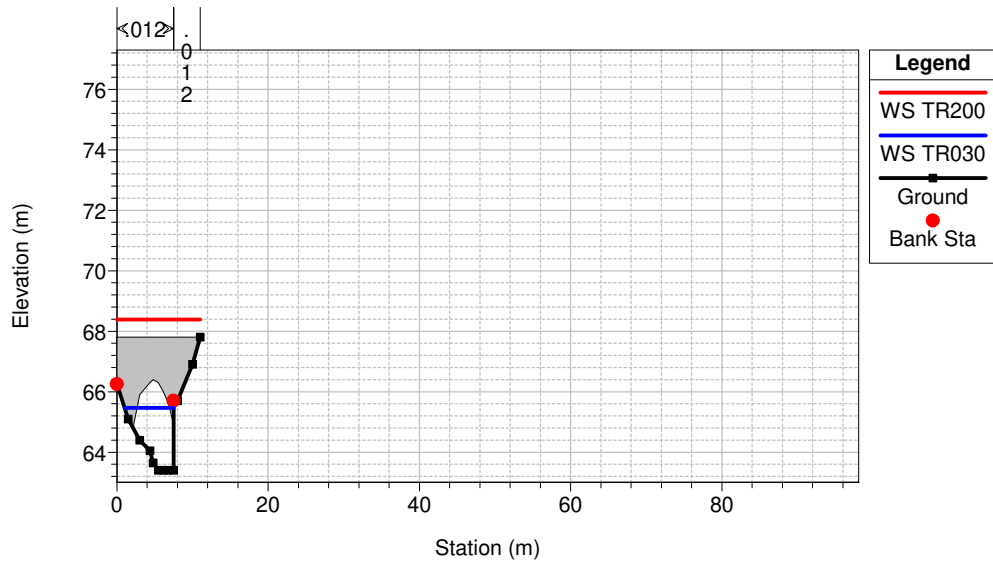
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 90 s90M



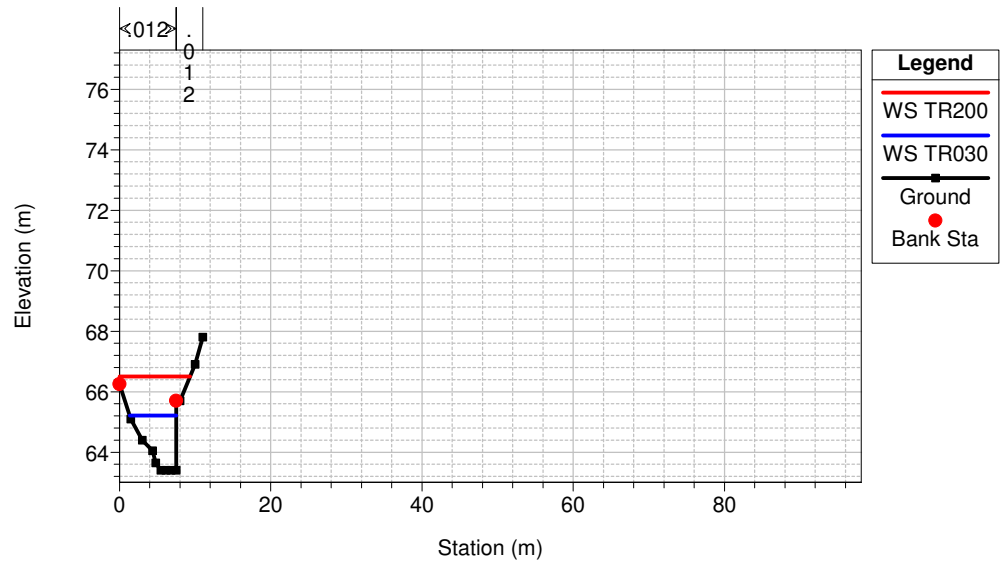
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 89 BR



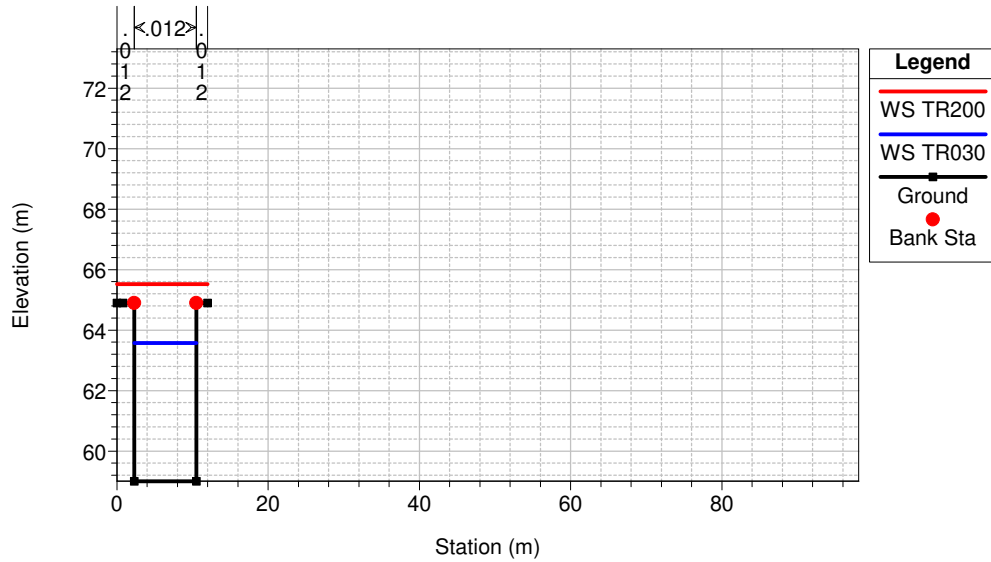
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 89 BR



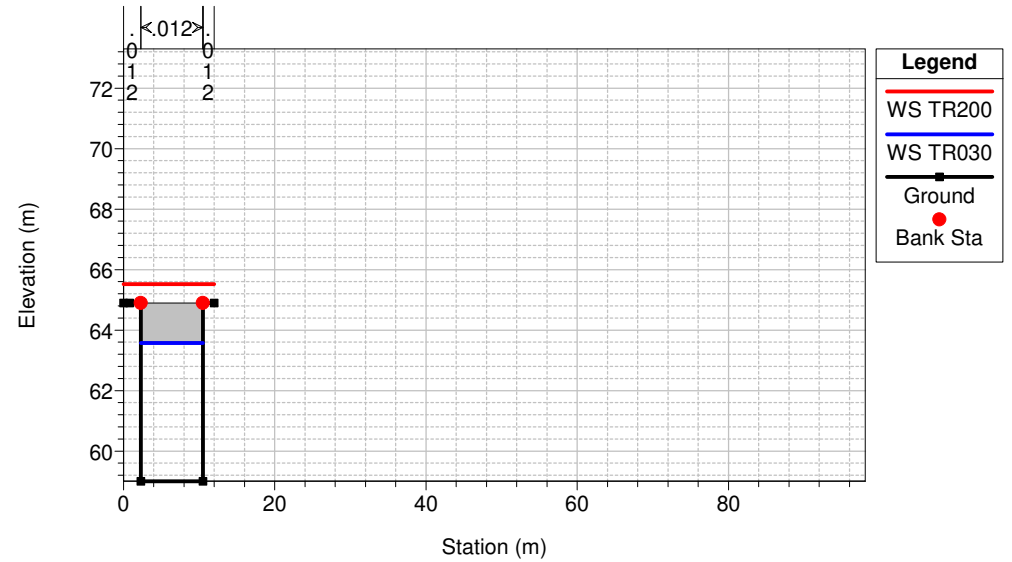
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 88 s90V



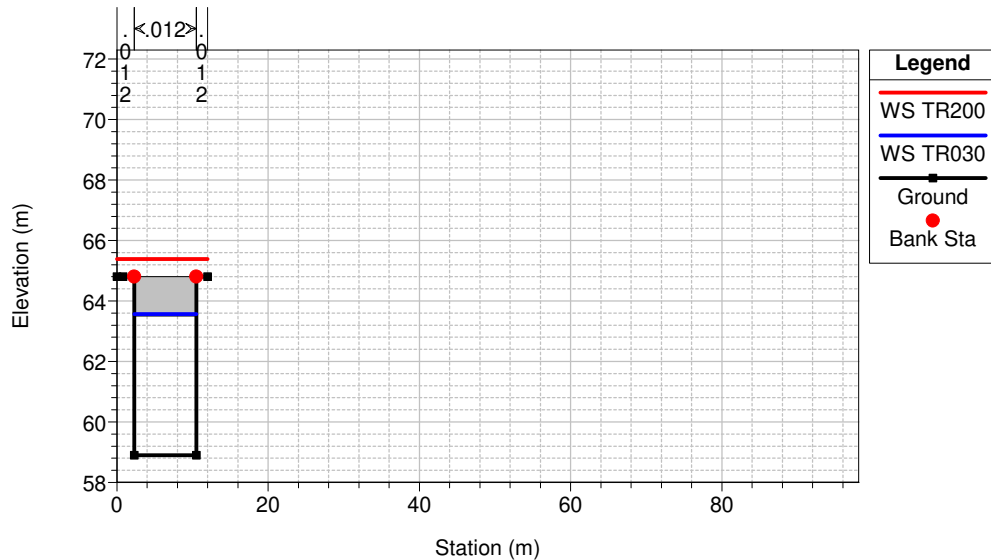
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 80 s80M



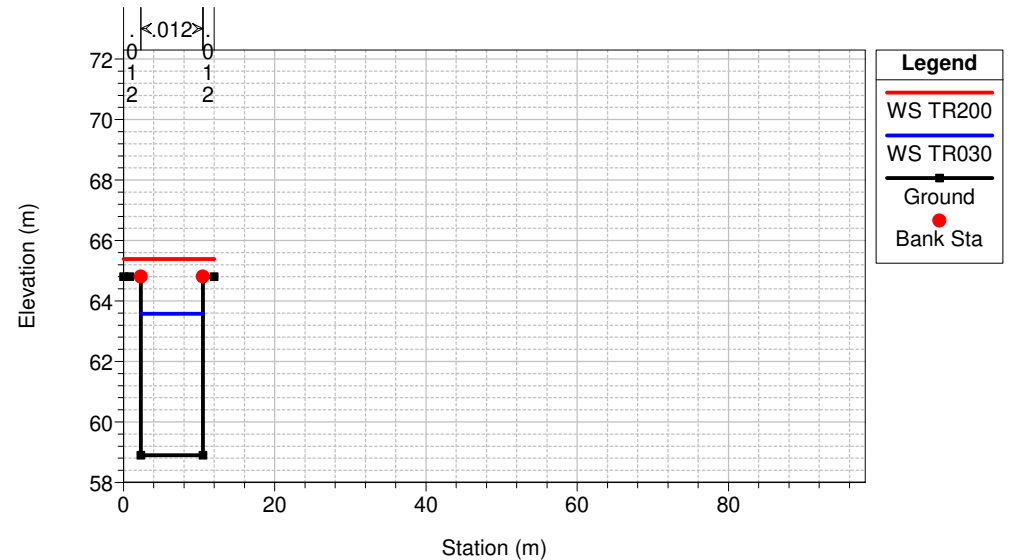
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 79 BR



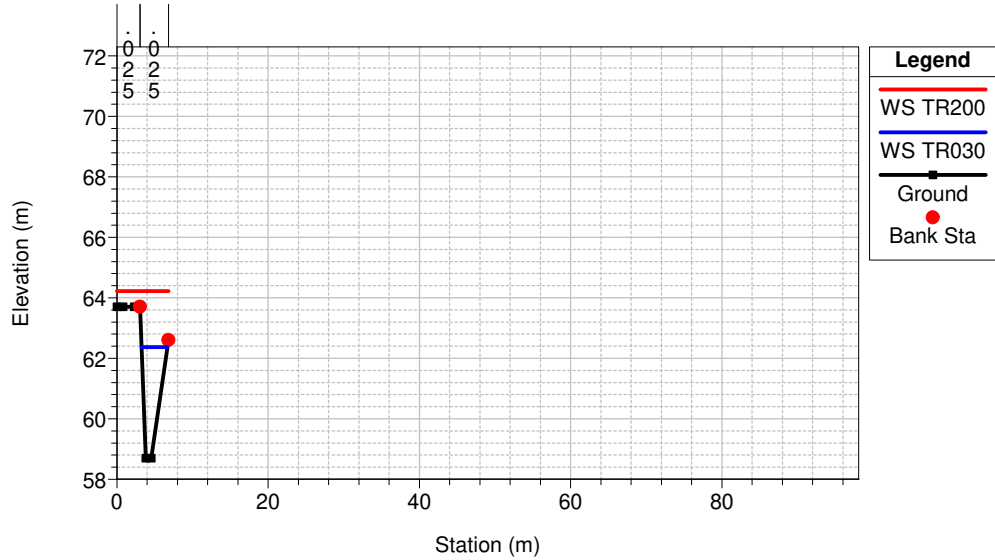
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 79 BR



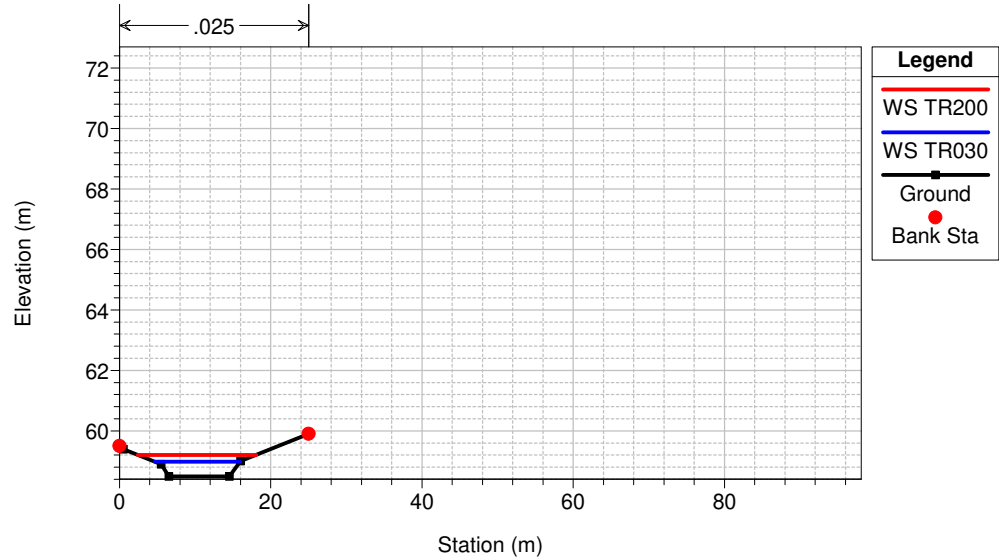
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 78 s80V



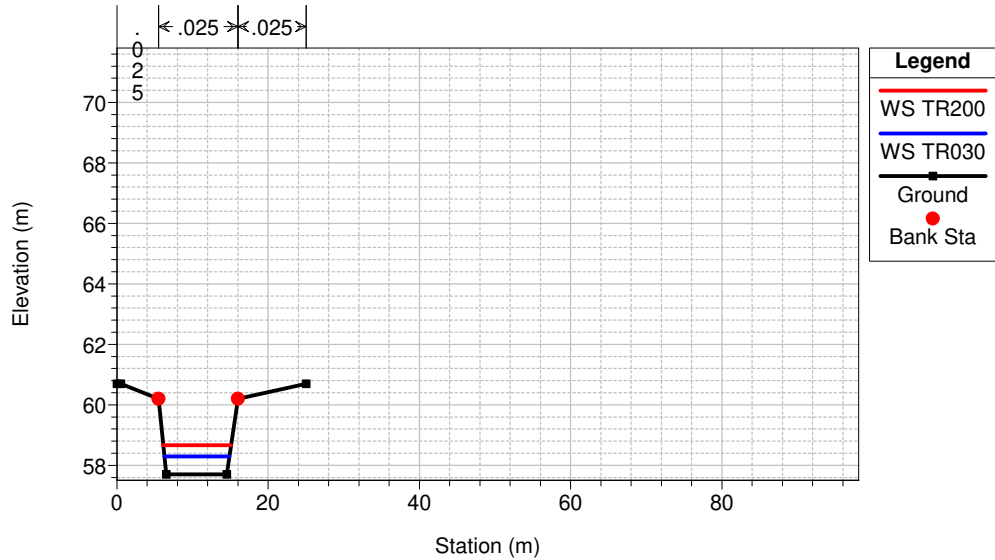
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 70 s70



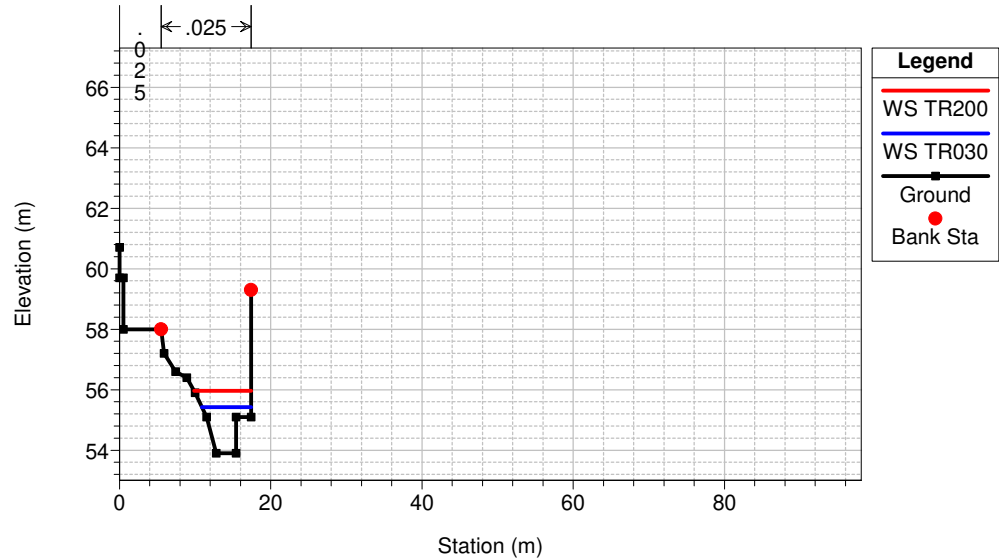
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 60 s60



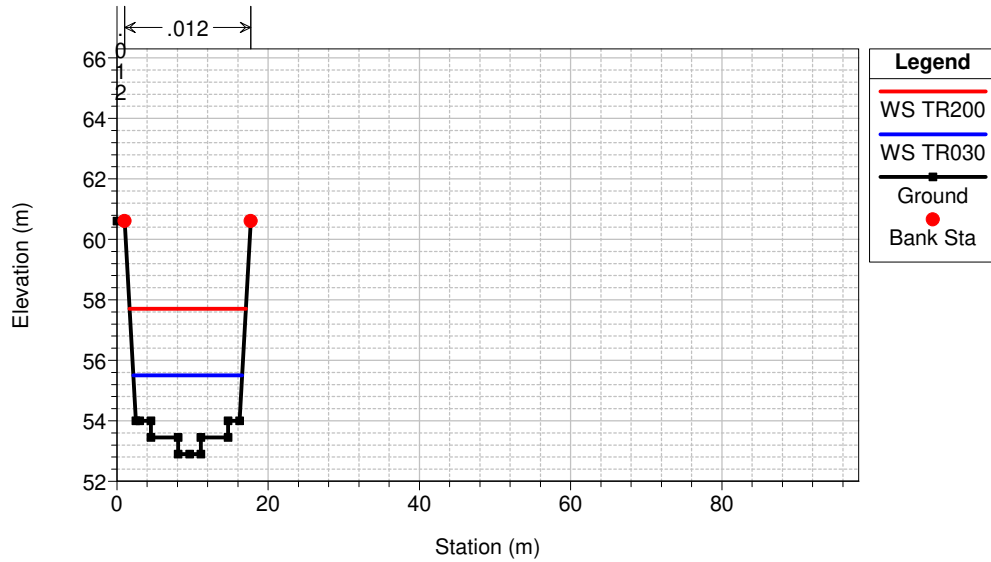
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 59 s59



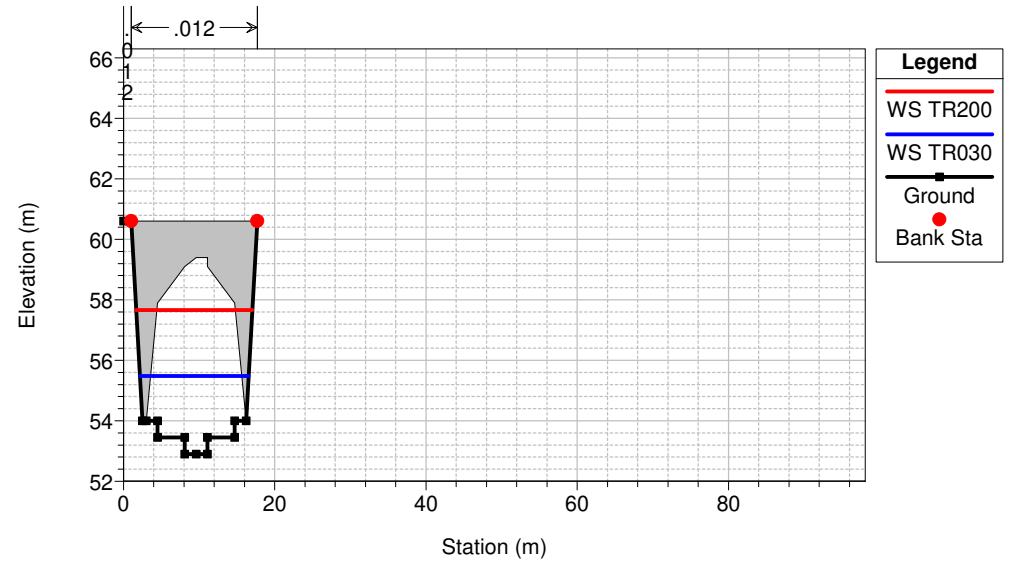
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 50 s50



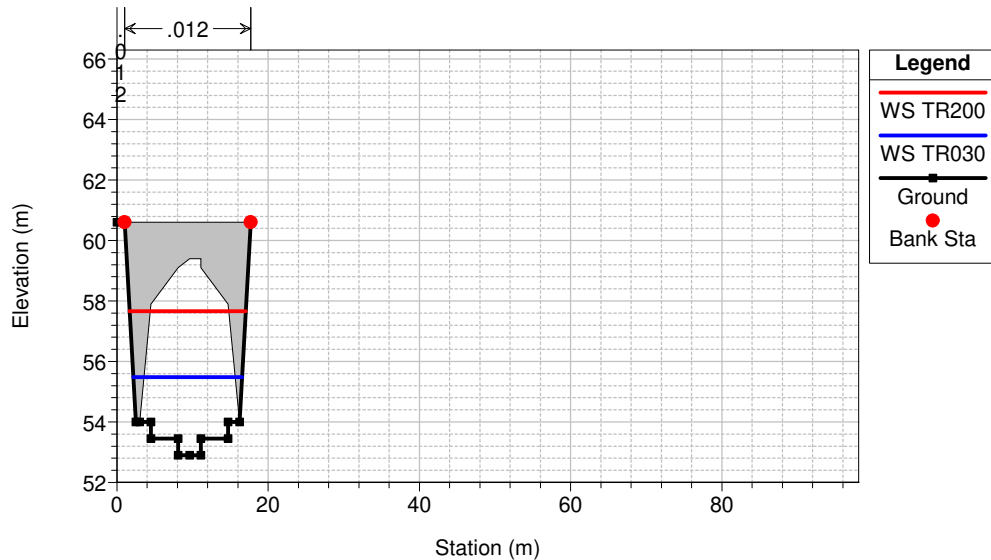
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 40 s40M



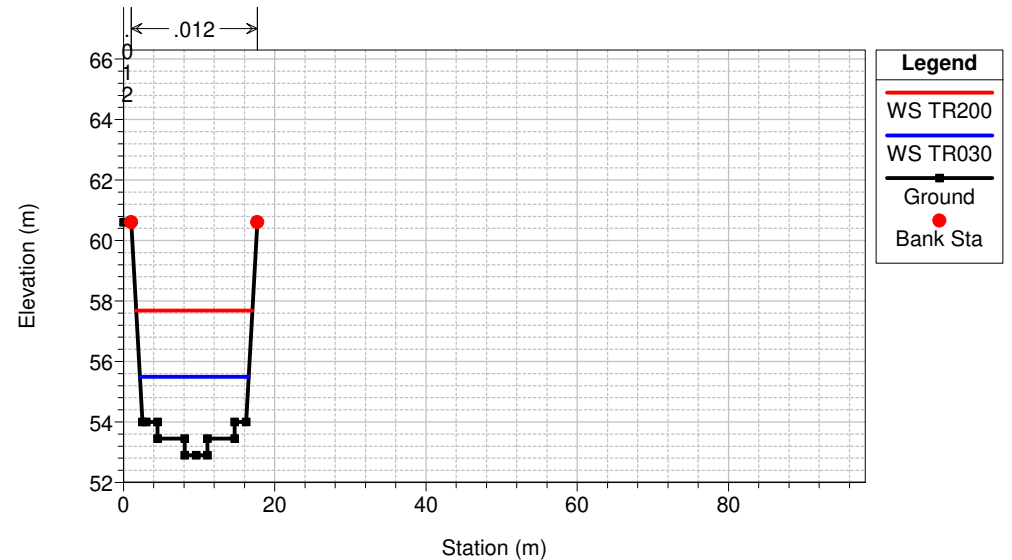
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 39 BR



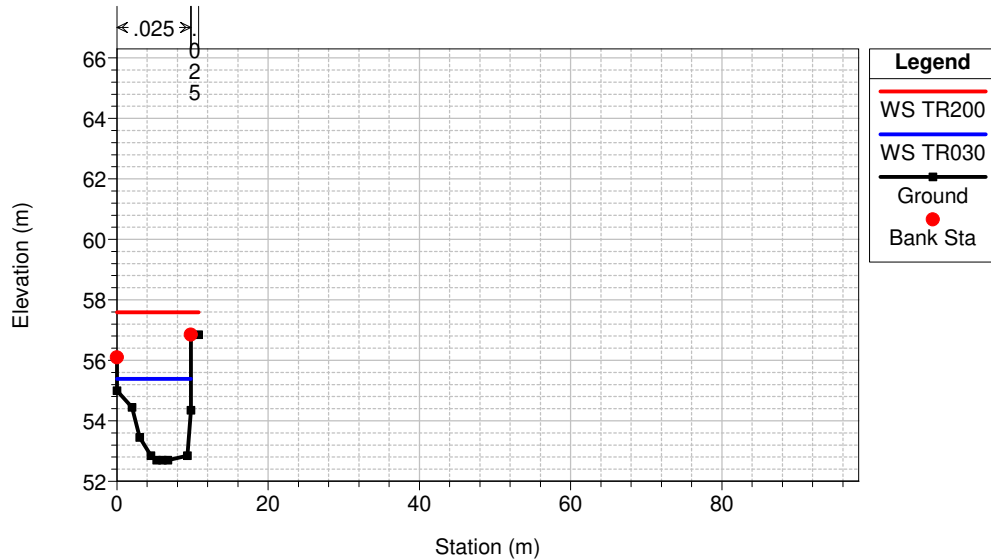
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 39 BR



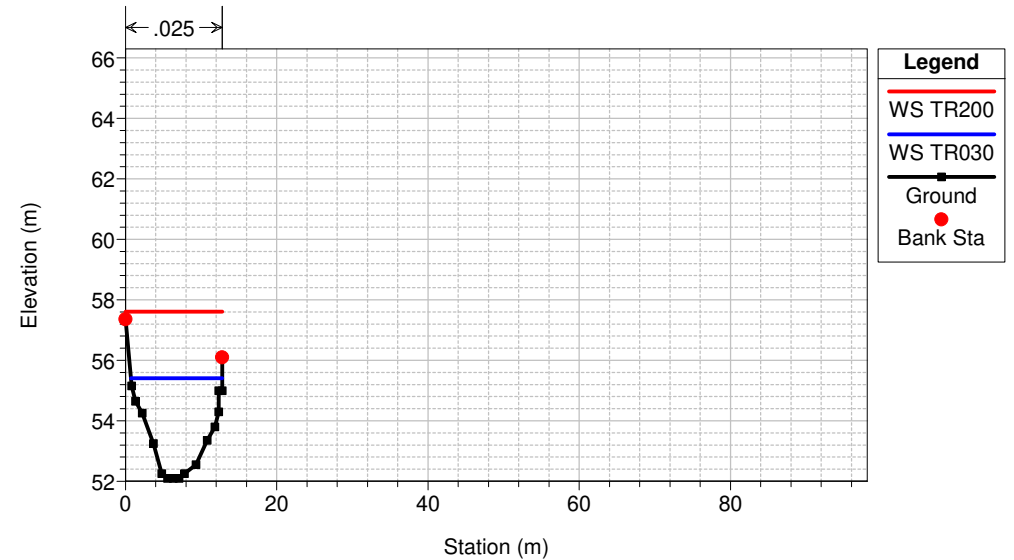
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 38 s40V



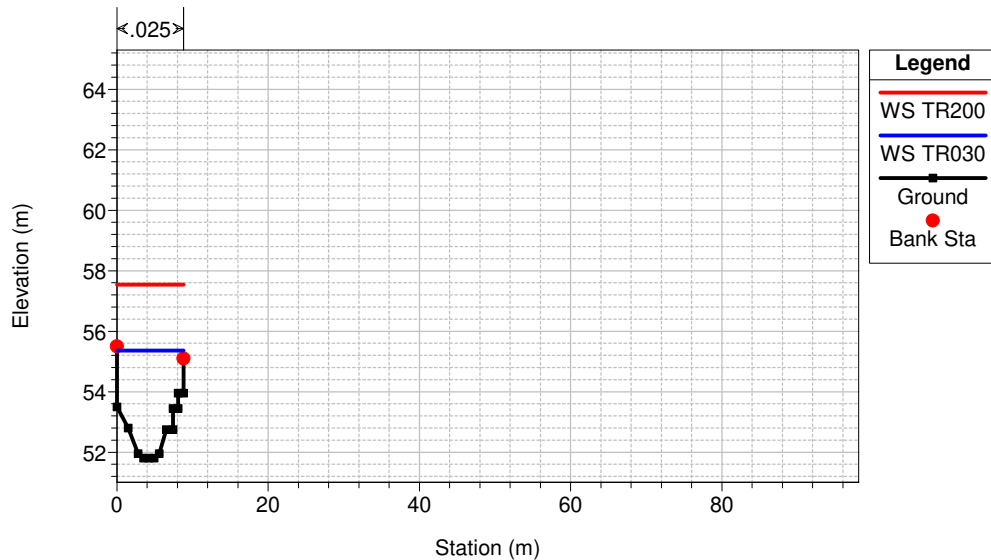
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 30 s30



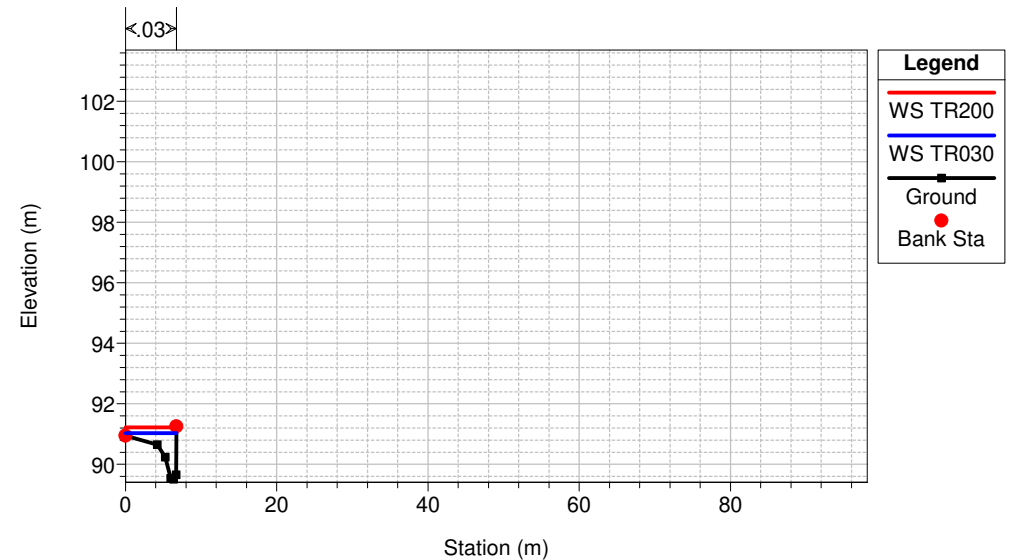
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 20 s20



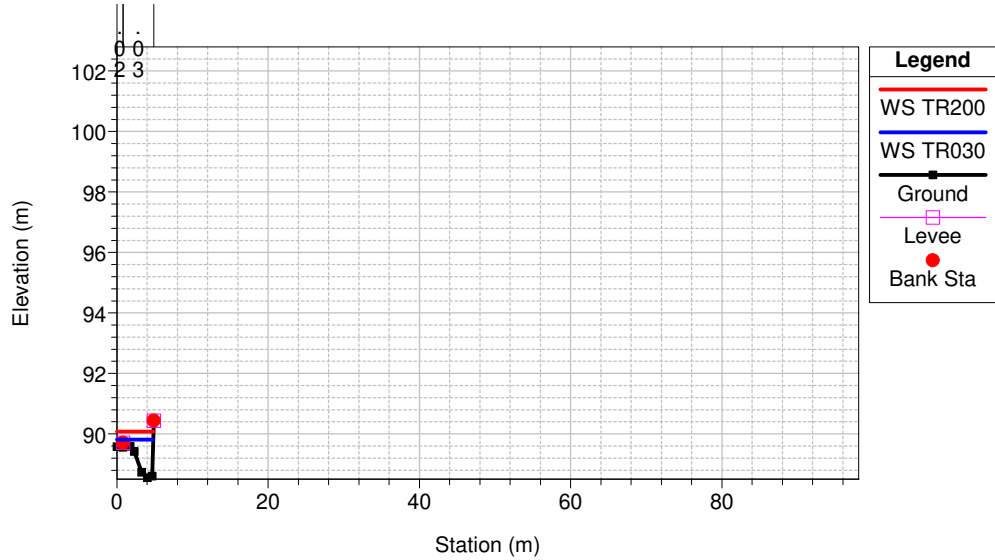
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = PANTALEONE Reach = PANTALEONE RS = 10 s10



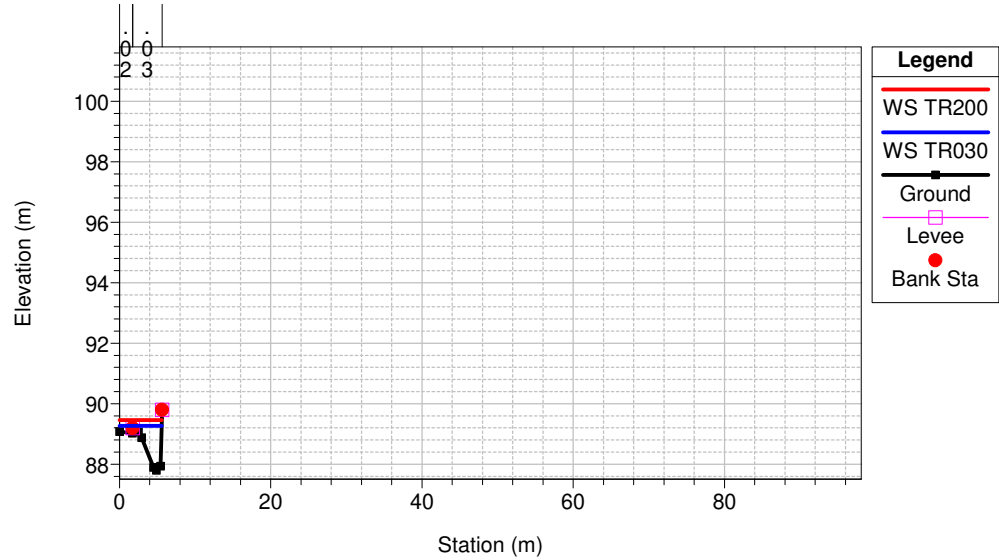
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 782.33 Sez 14



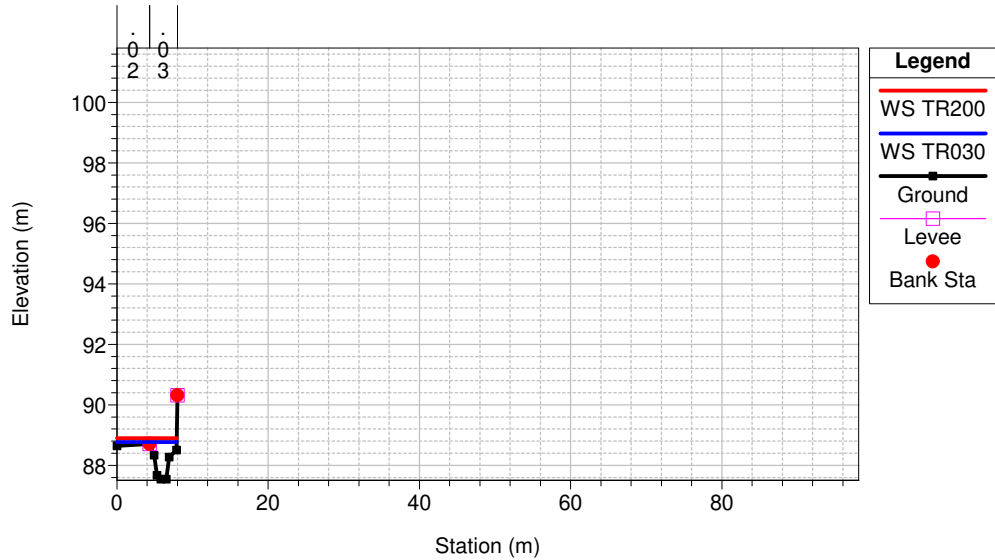
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 755.96 Sez 13



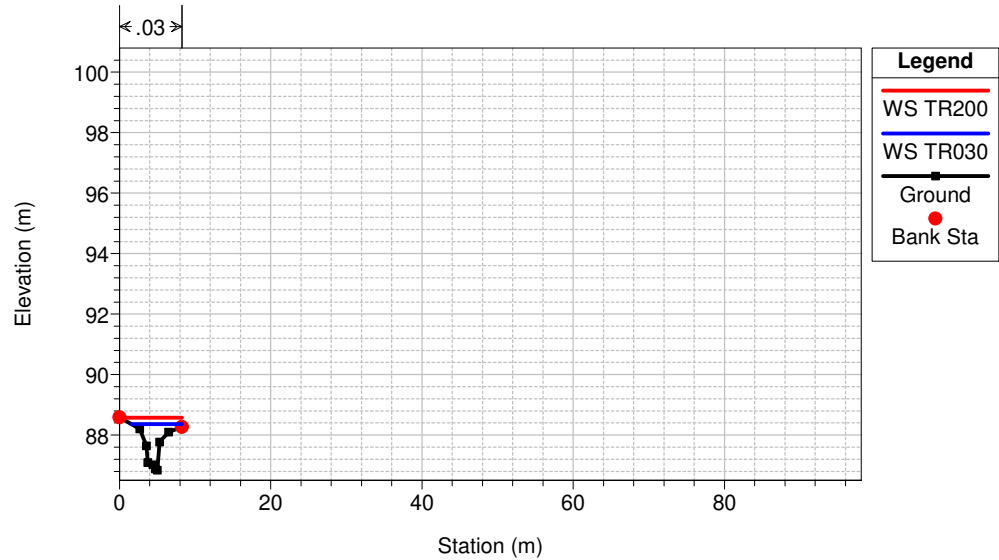
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 734.56 Sez 12



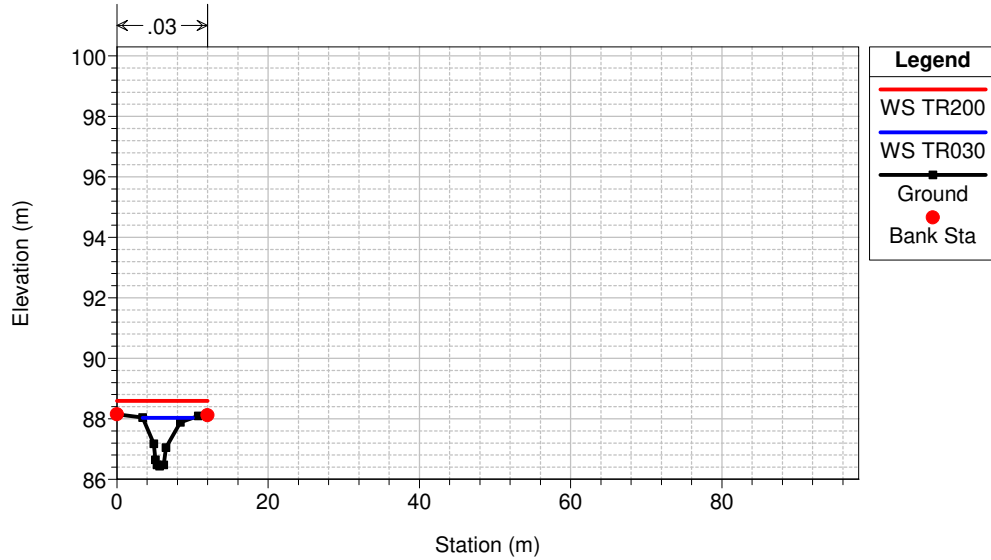
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 727.59 Sez 11



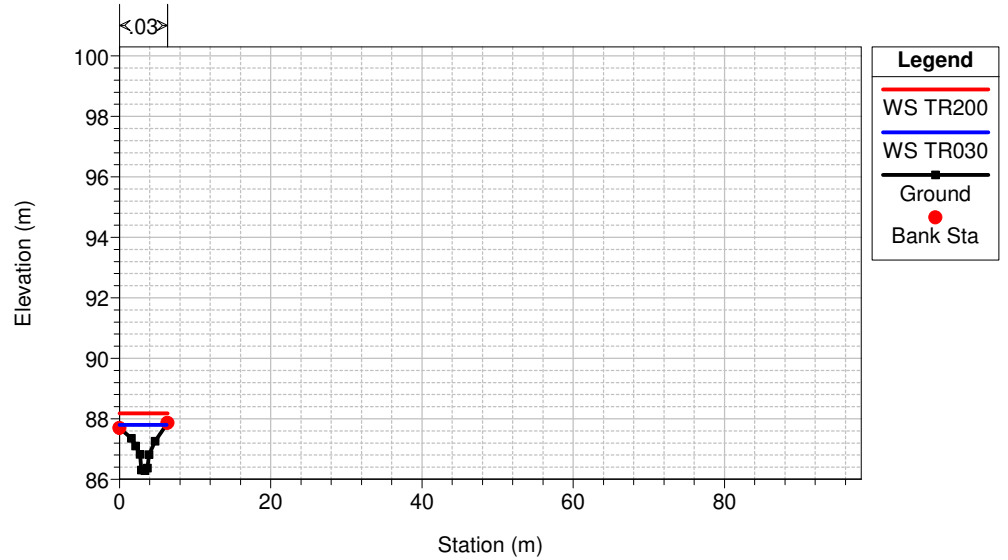
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 709.58 Sez 10



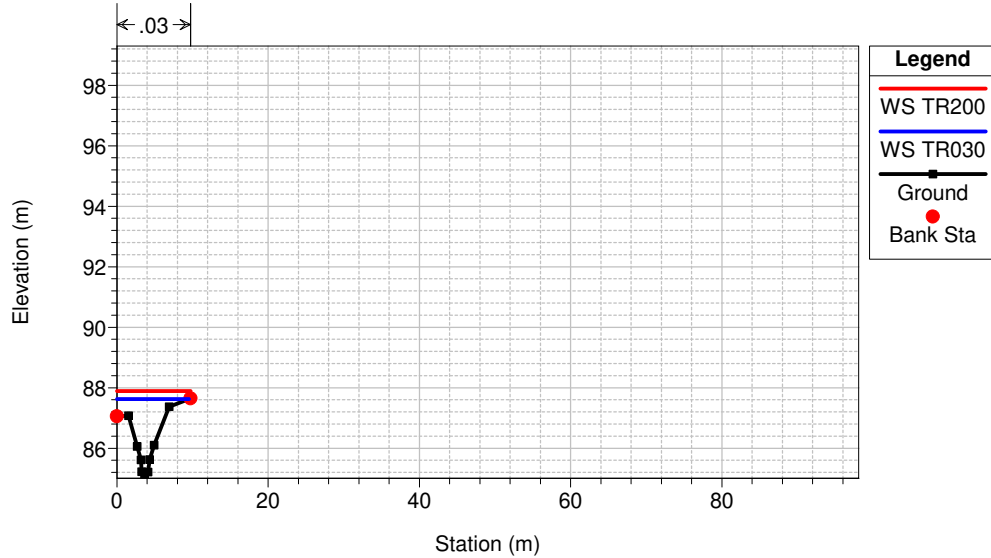
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 690.39 Sez 09



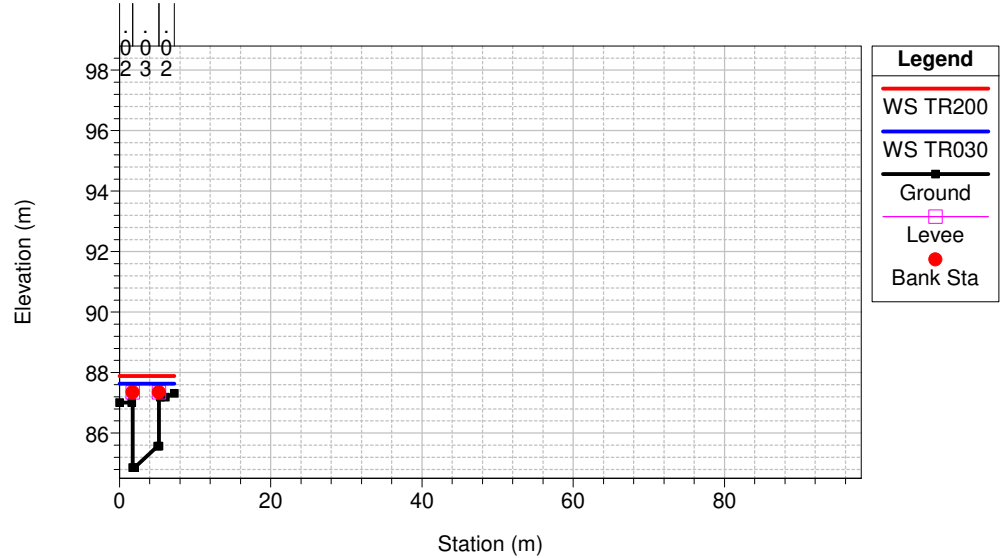
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 680.76 Sez 08



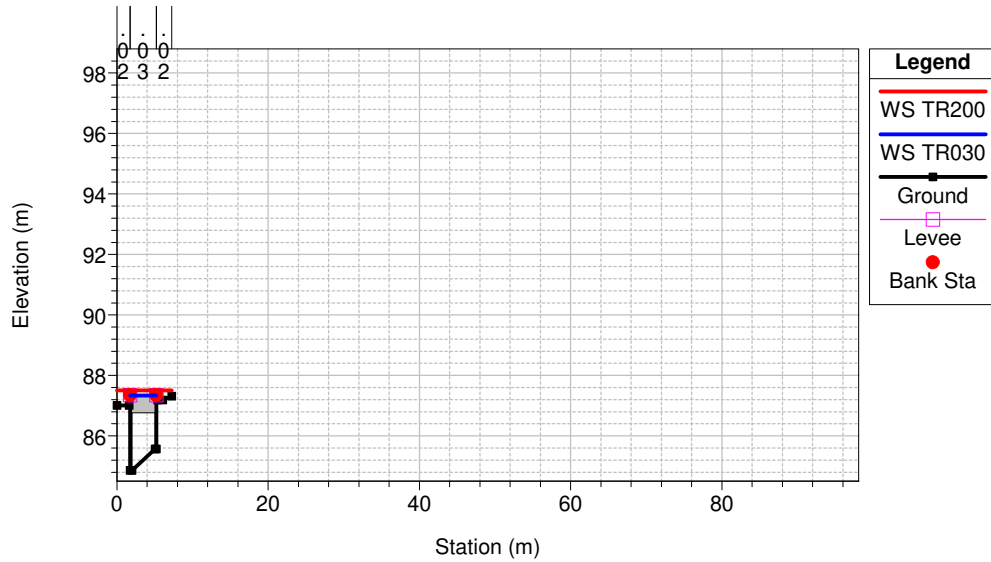
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 656.36 Sez 07



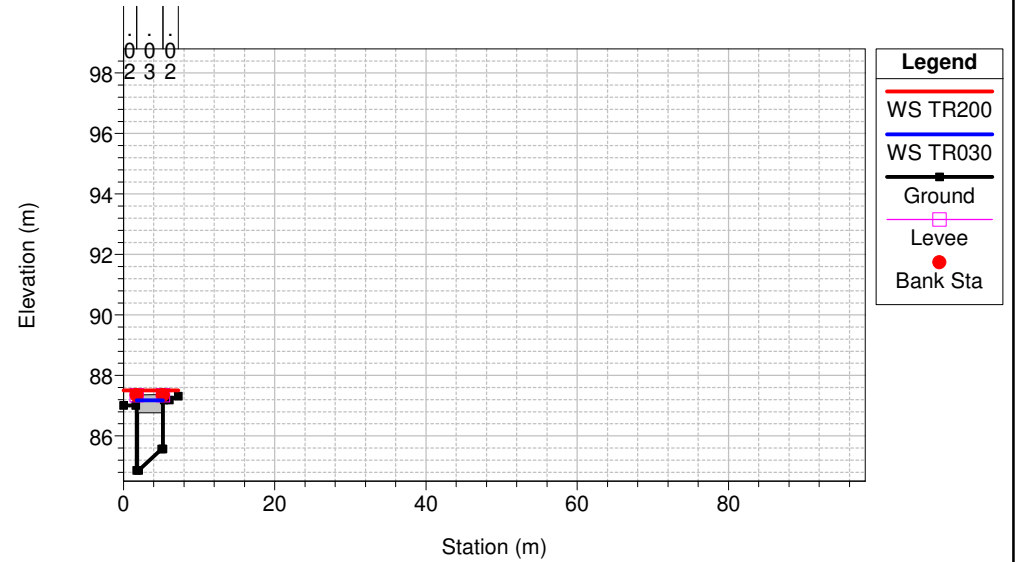
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 653.72 Sez monte ponte 06



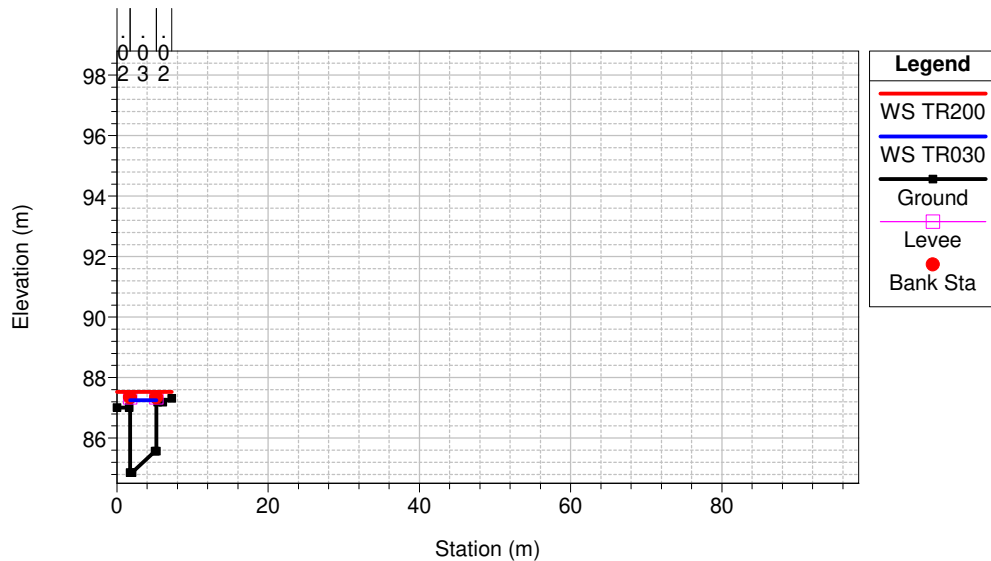
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 652.72 BR Sez 06



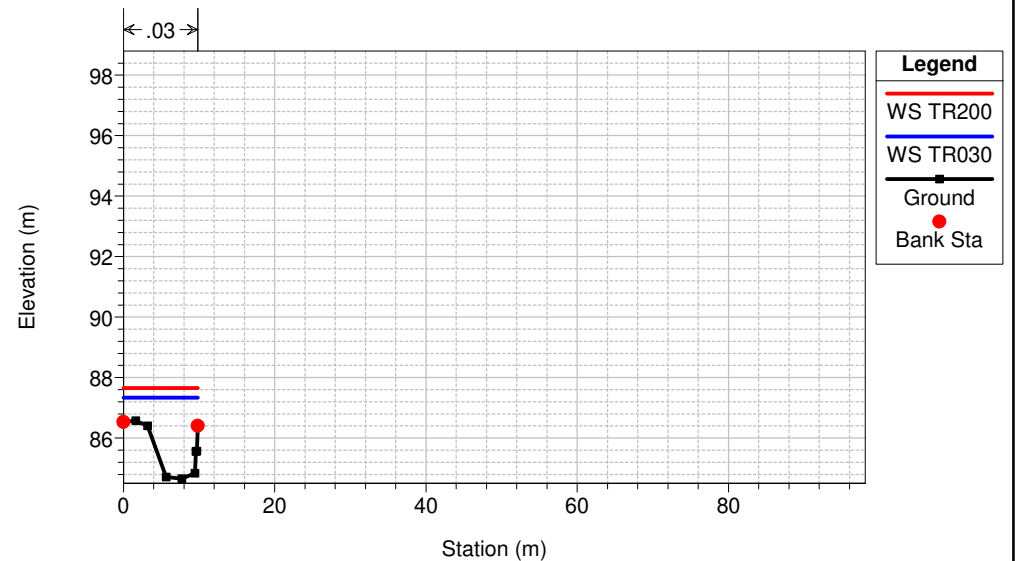
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 652.72 BR Sez 06



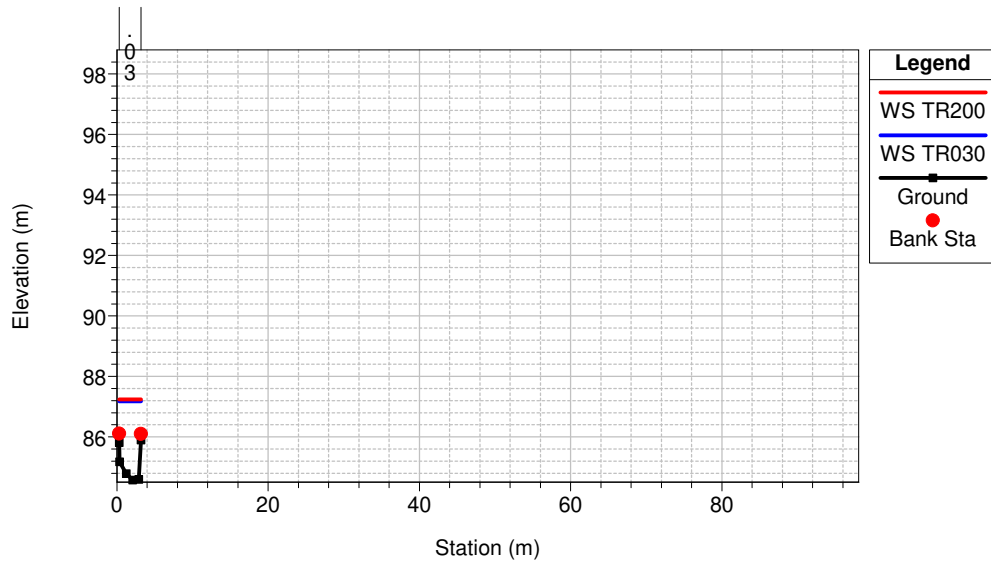
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 641.42 Sez valle ponte 06



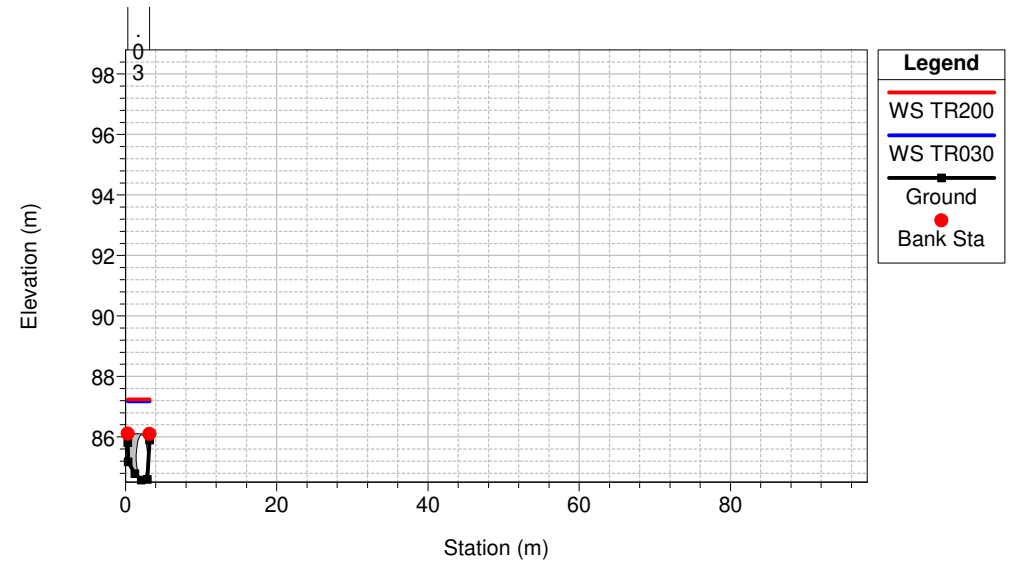
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 640.53 Sez 05



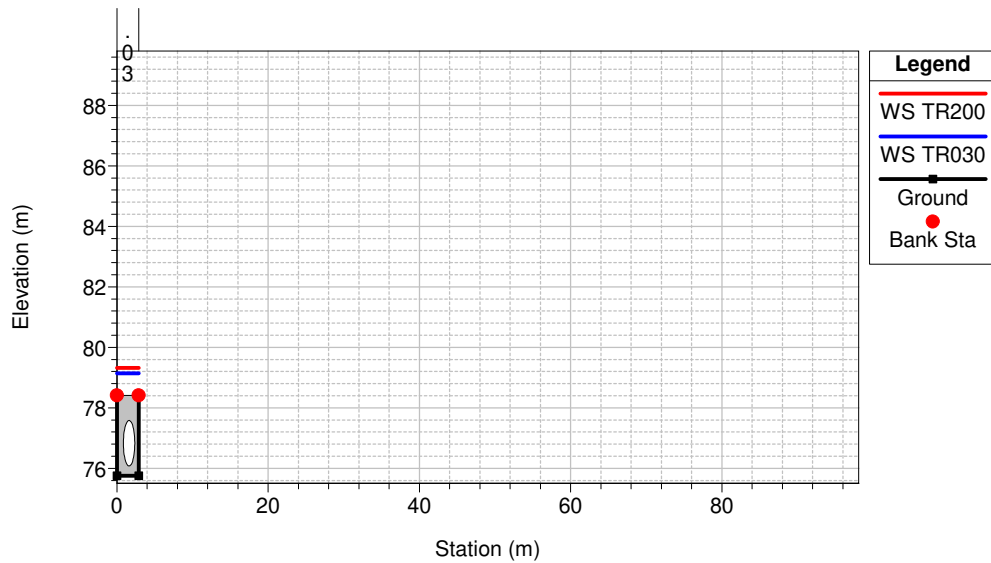
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 632.39 Sez monte ponte 04



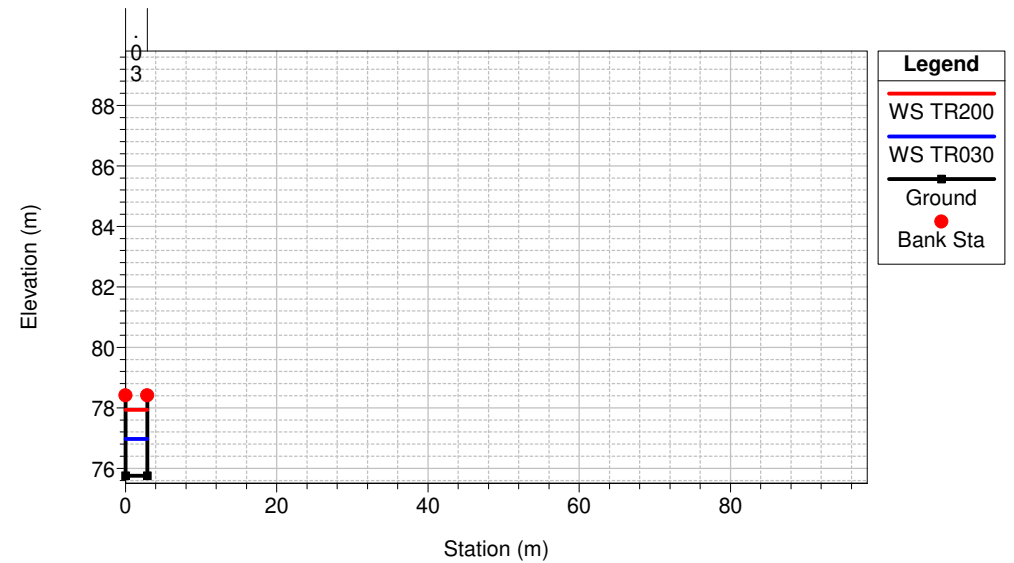
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 631.39 Culv Sez 04



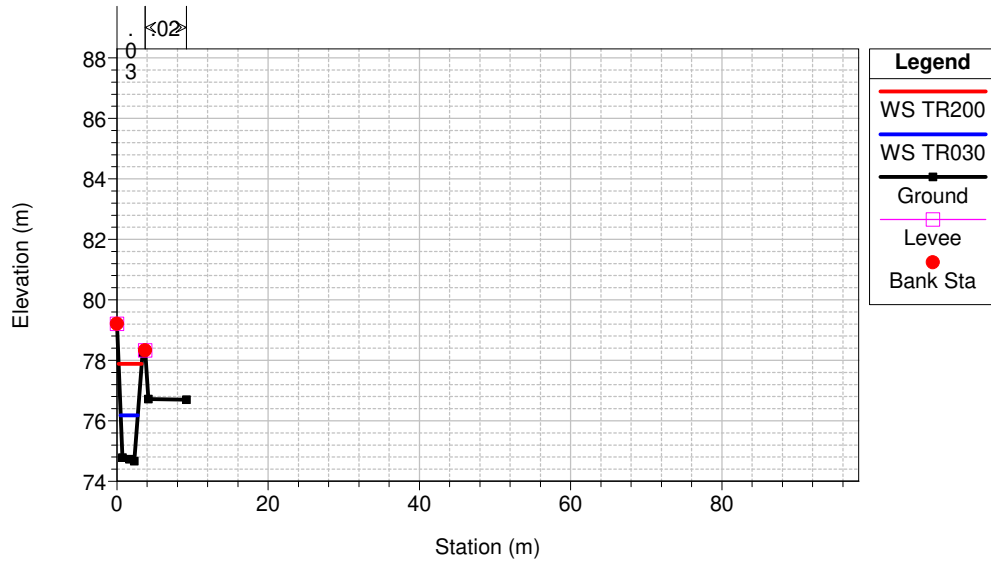
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 631.39 Culv Sez 04



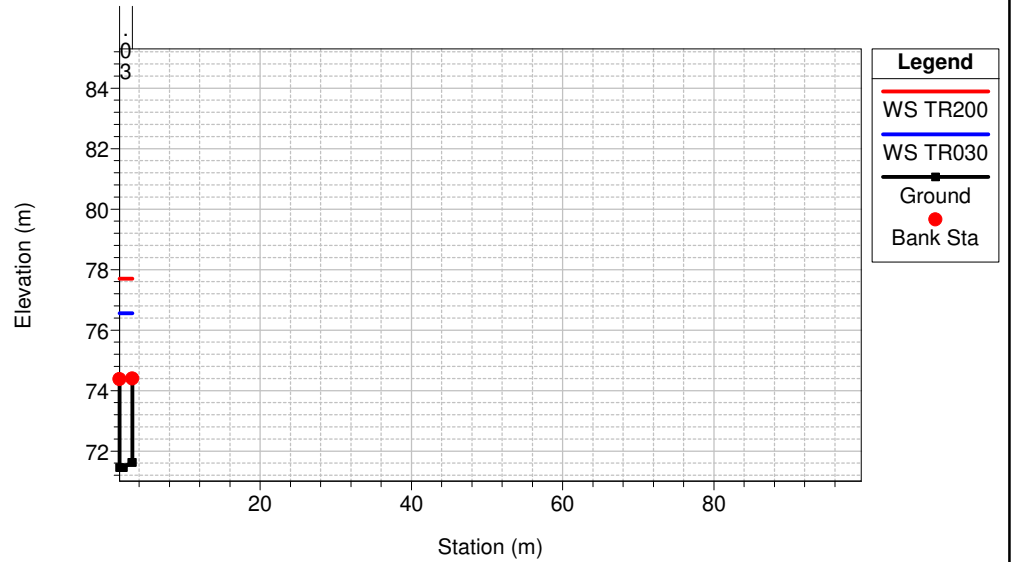
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 413.79 Sez 03



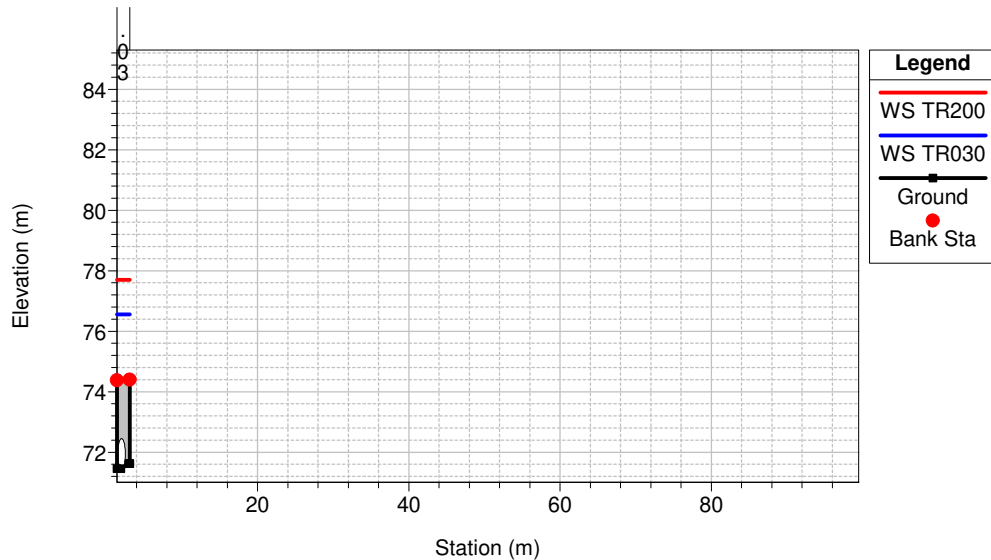
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 398.11 Sez 02



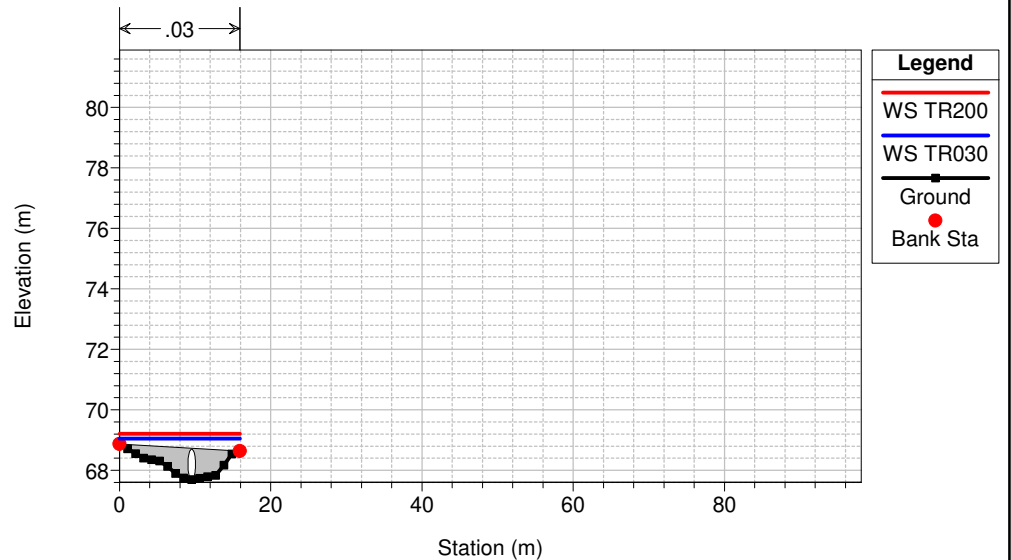
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 346.82 Sez monte 01



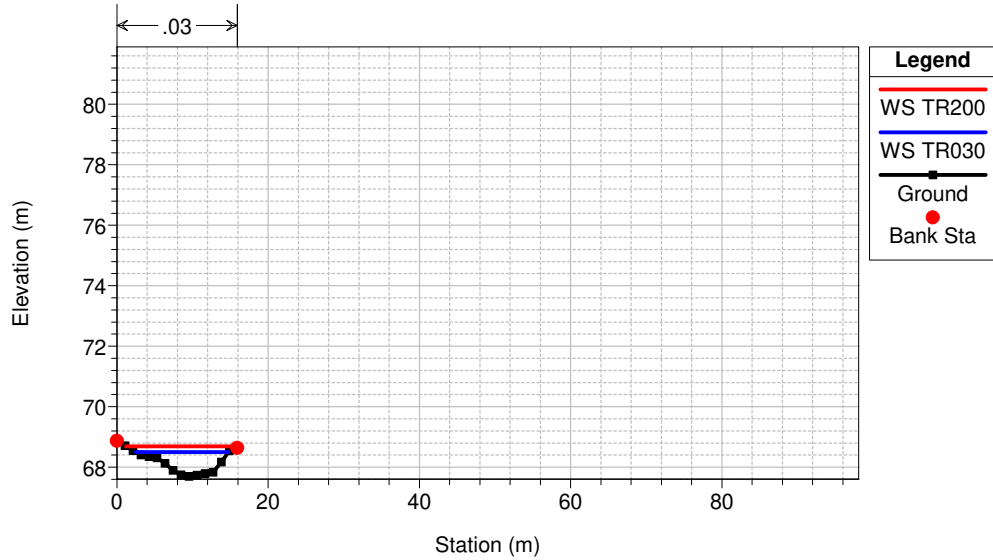
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 345.82 Culv Sez 01



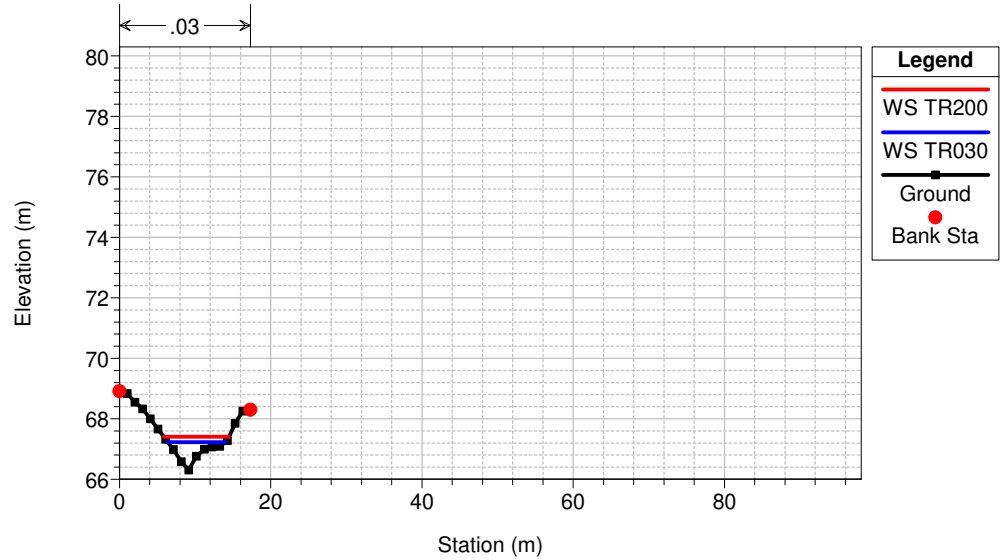
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 345.82 Culv Sez 01



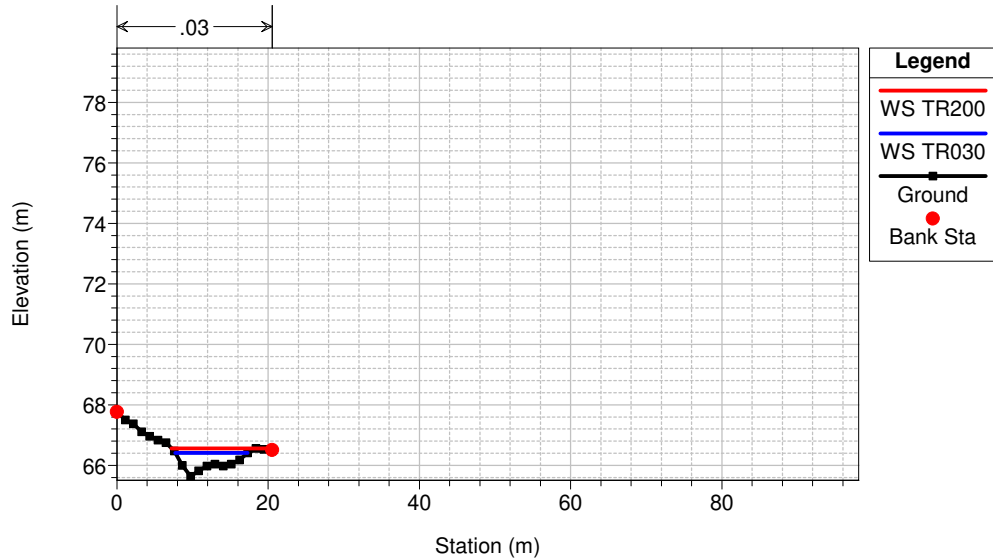
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 138.28



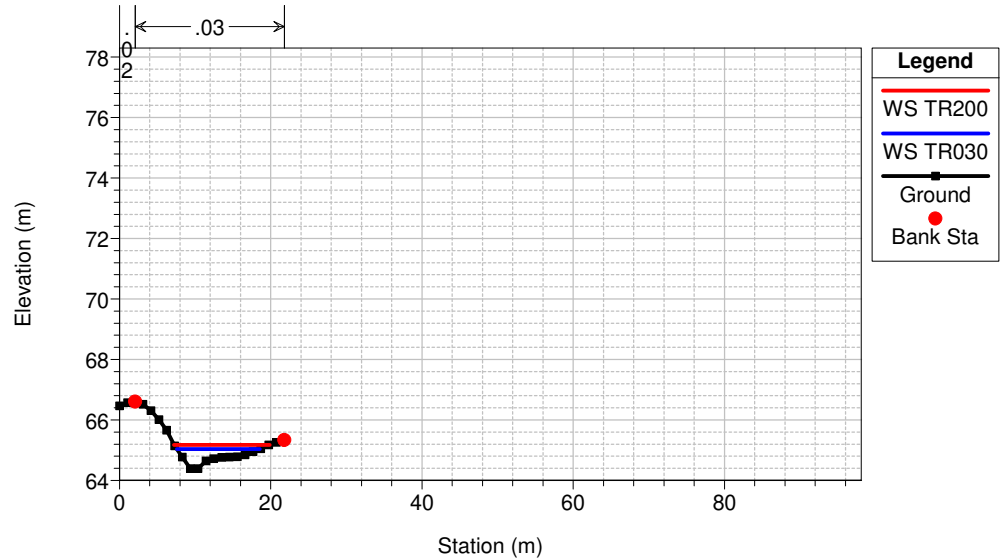
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 119.38



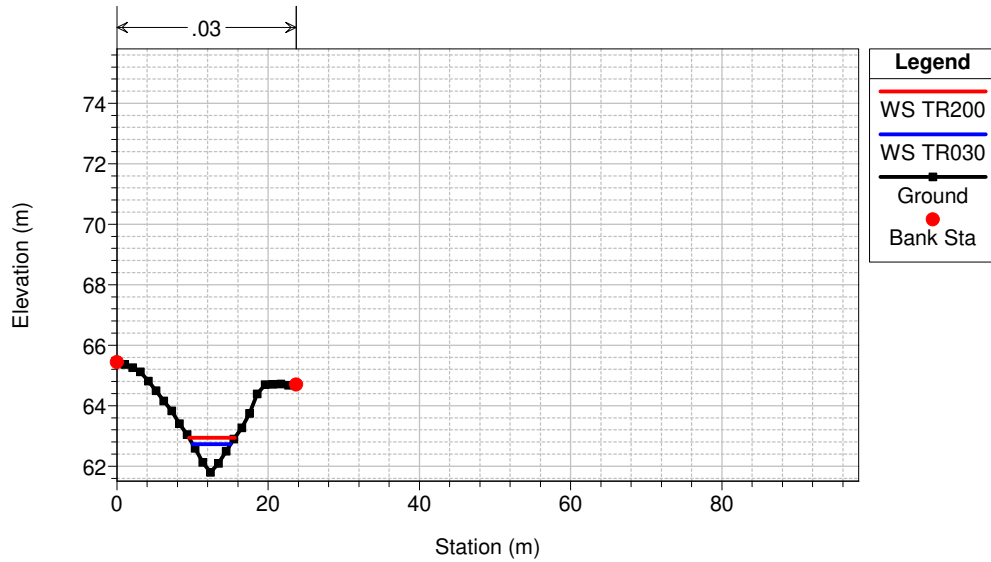
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 93.95



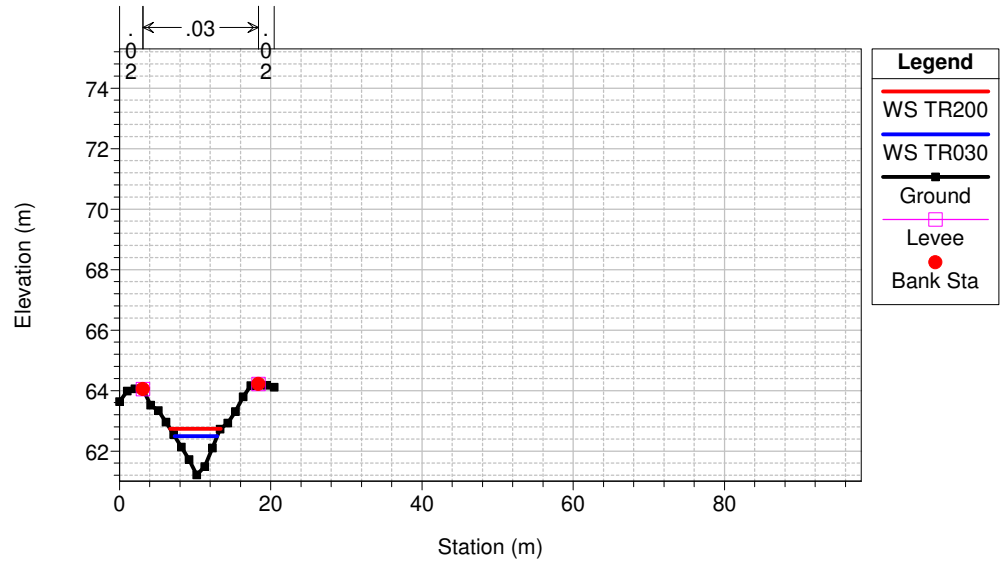
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 64.02



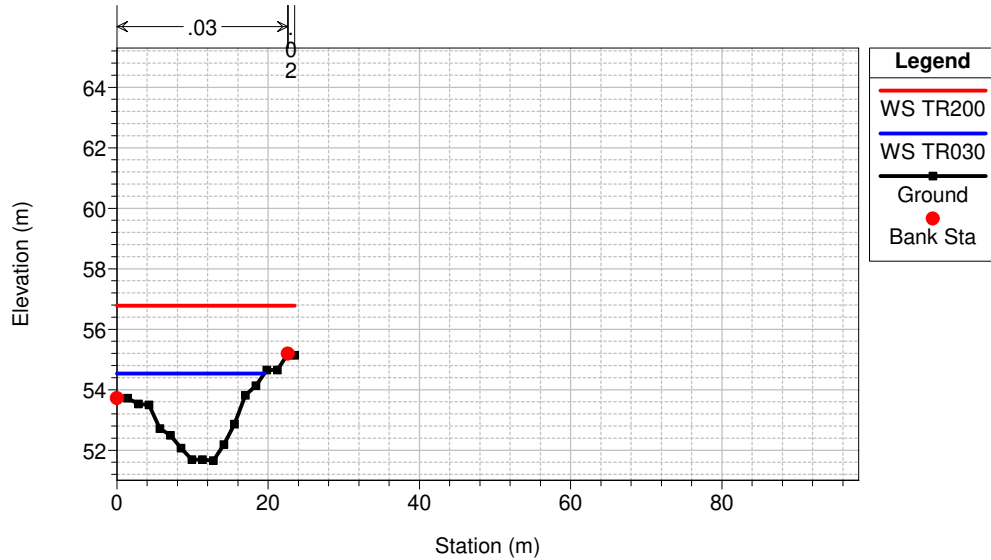
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 34.05



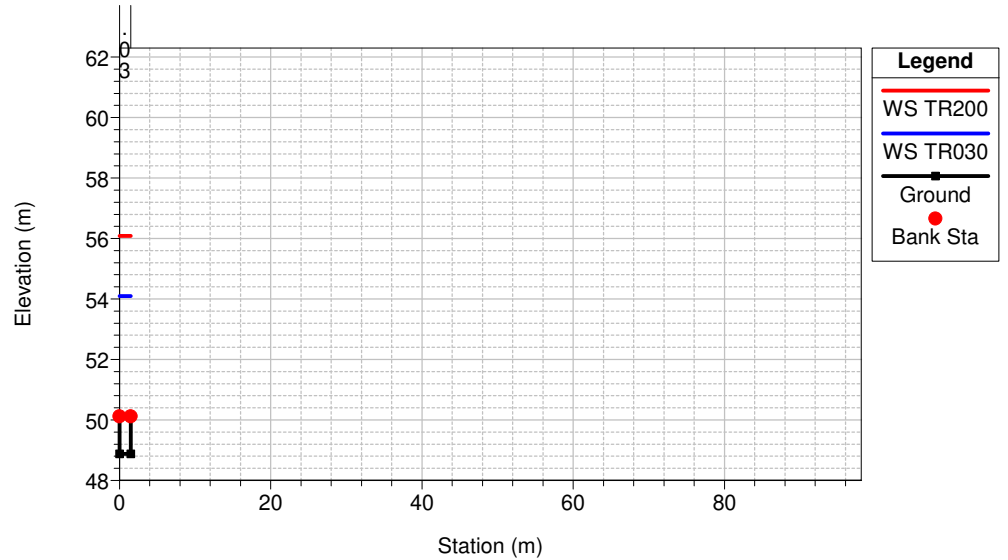
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = QUERCETO Reach = QUERCETO RS = 10.31

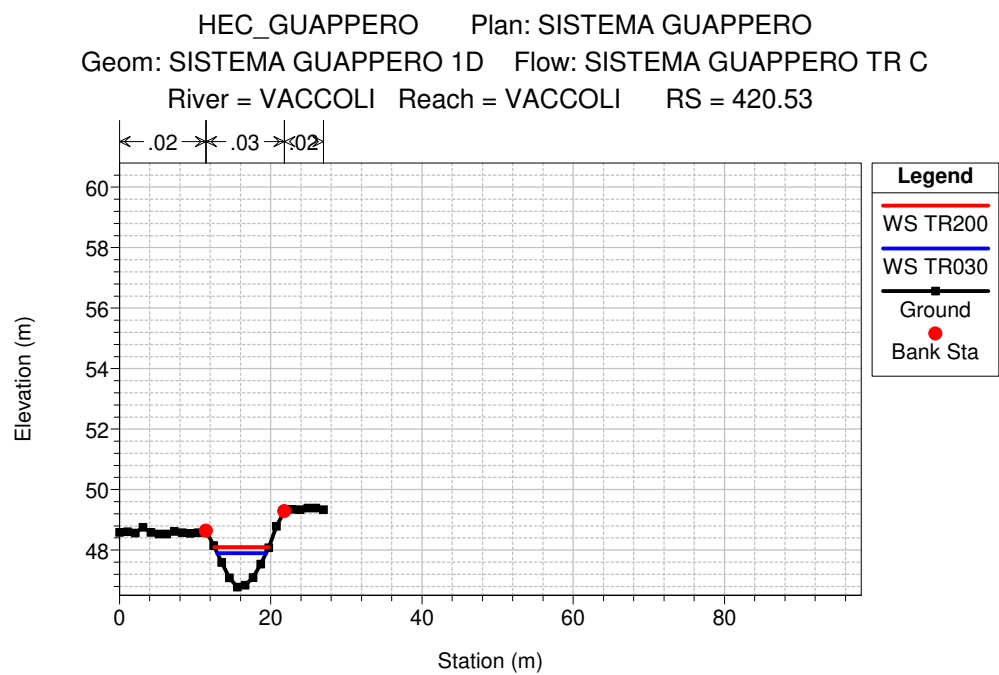
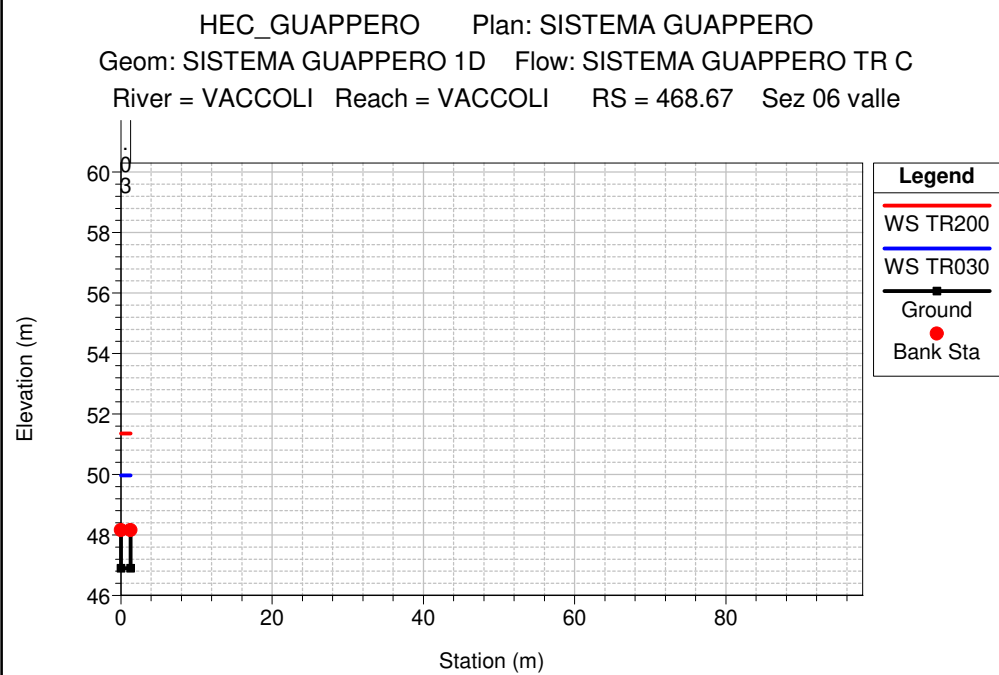
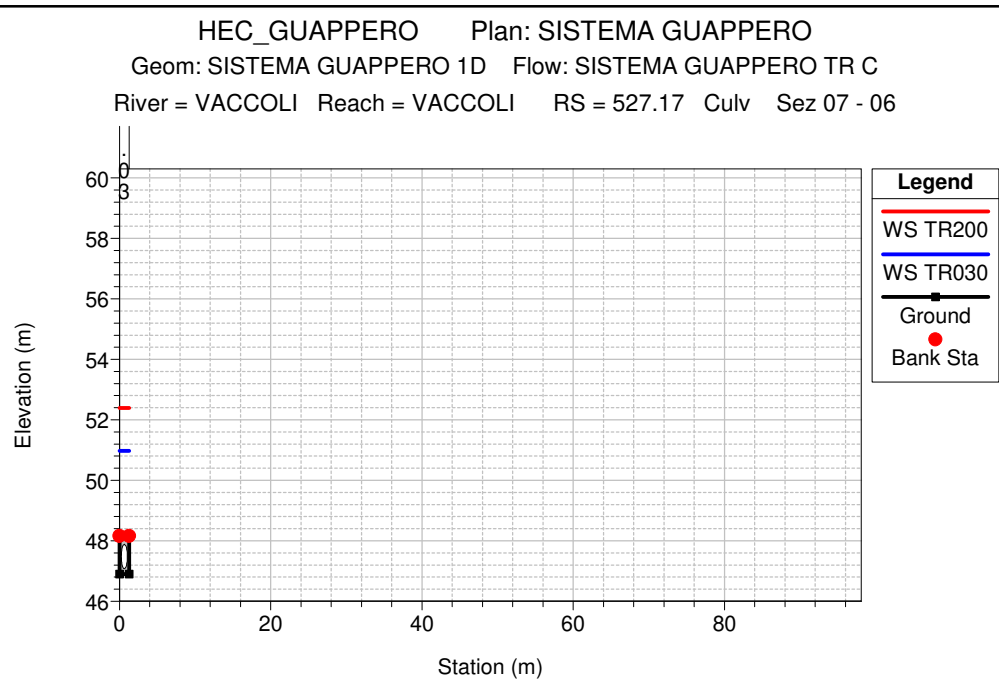
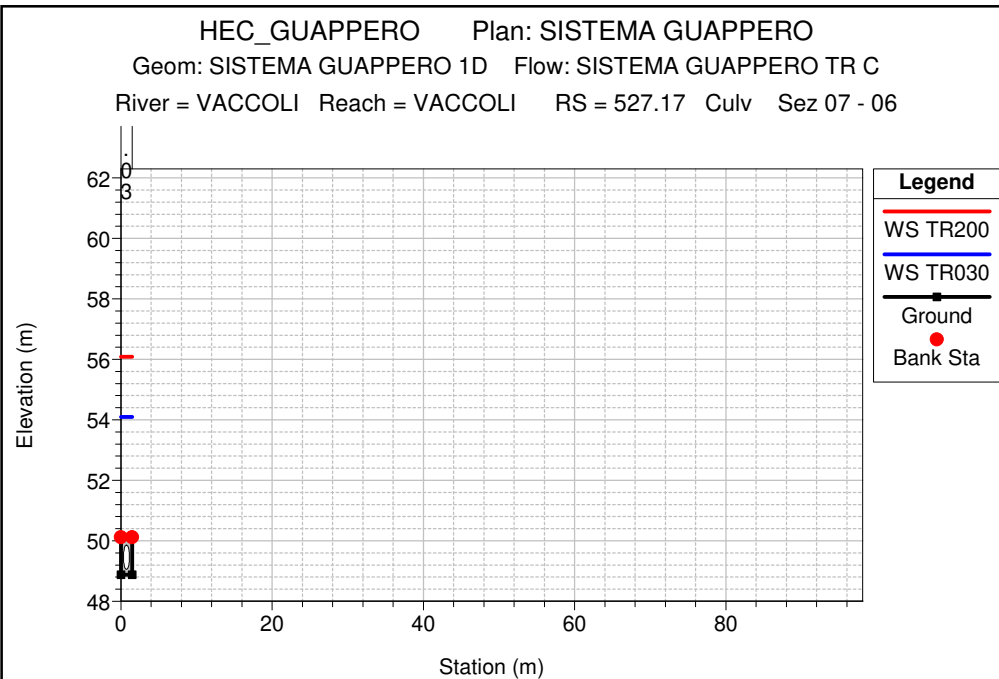


HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 546.50

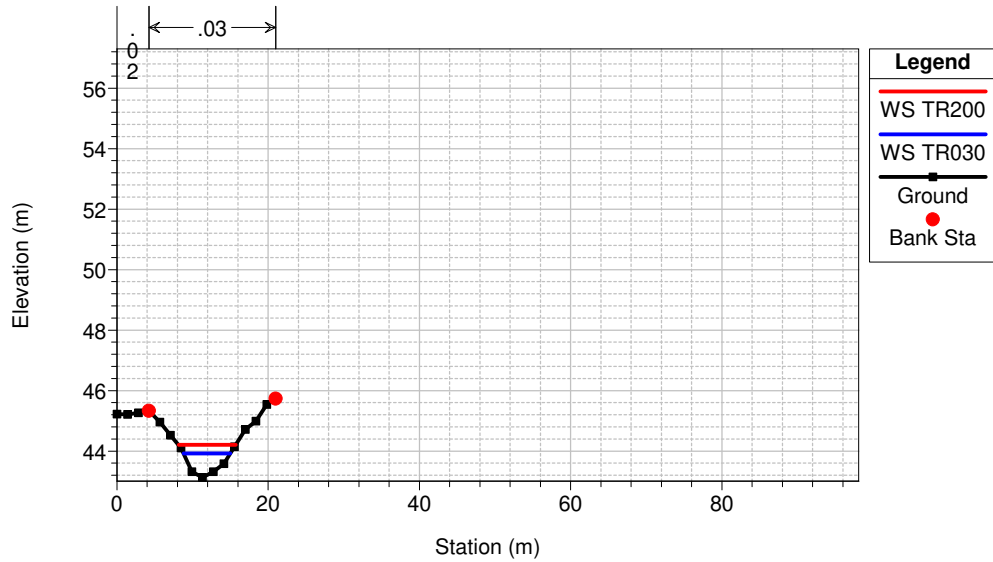


HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 528.17 Sez 07 monte

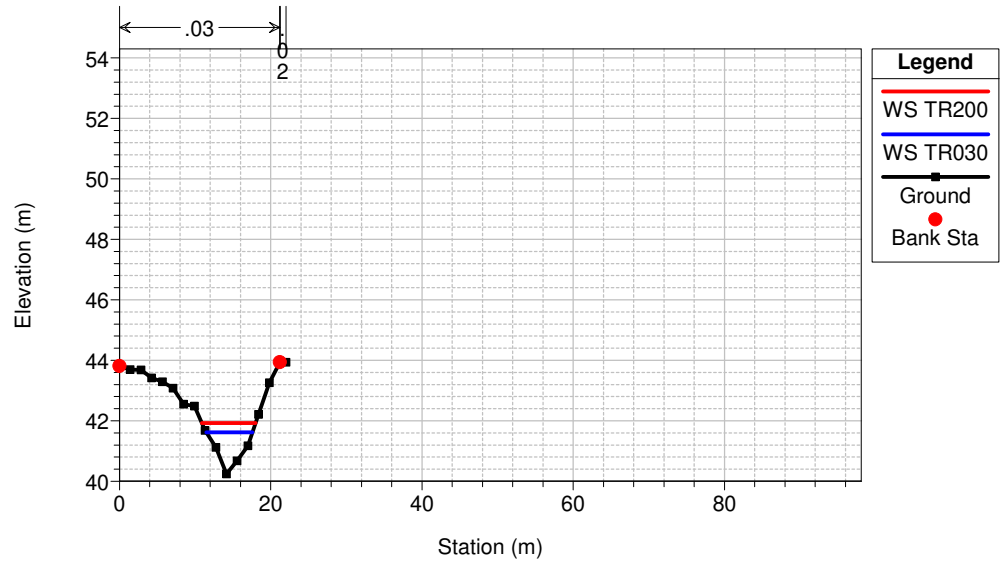




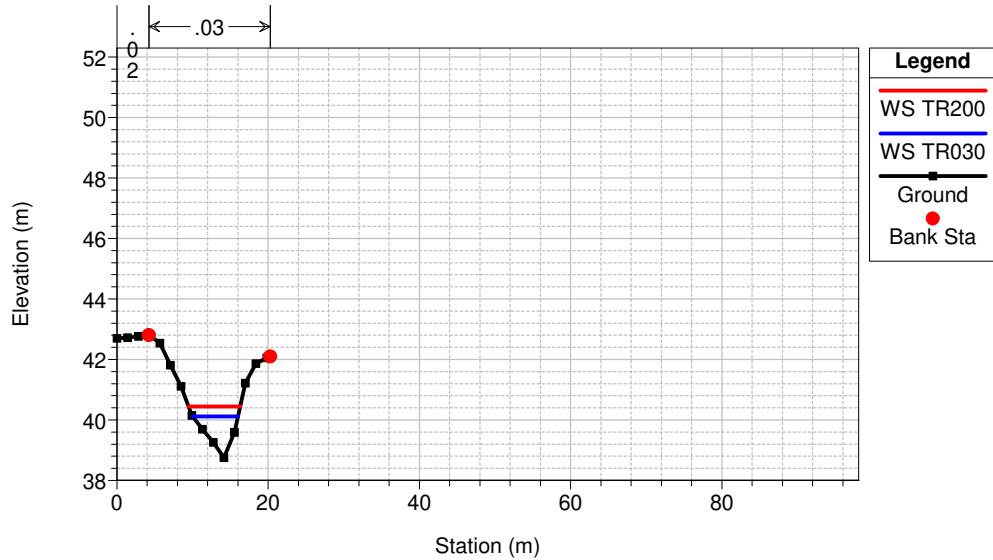
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 377.30



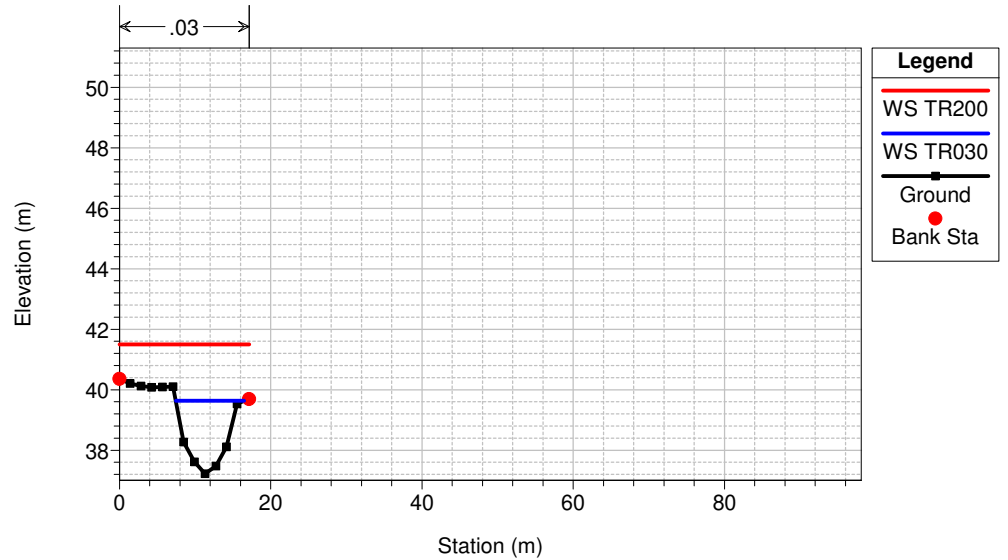
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 326.78



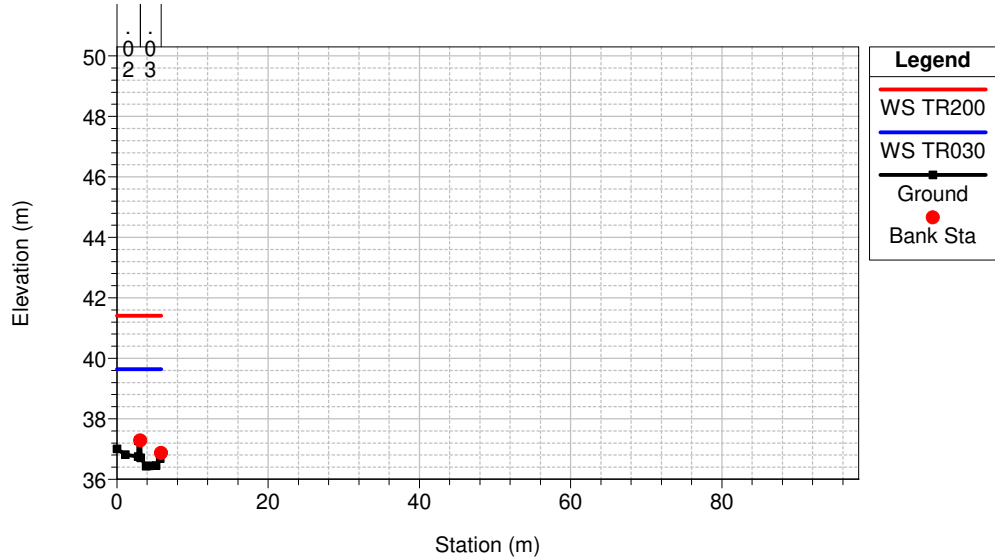
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 292.99



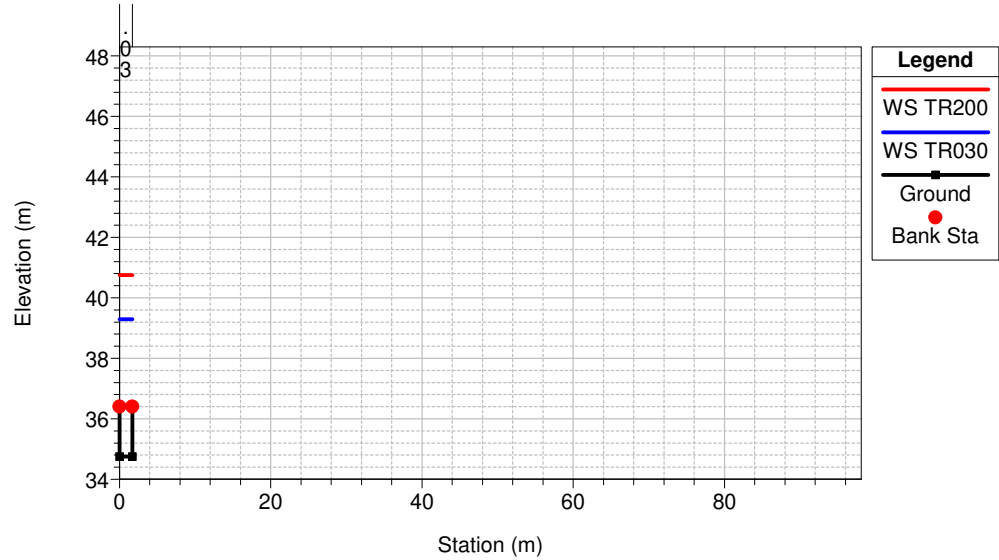
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 232.58



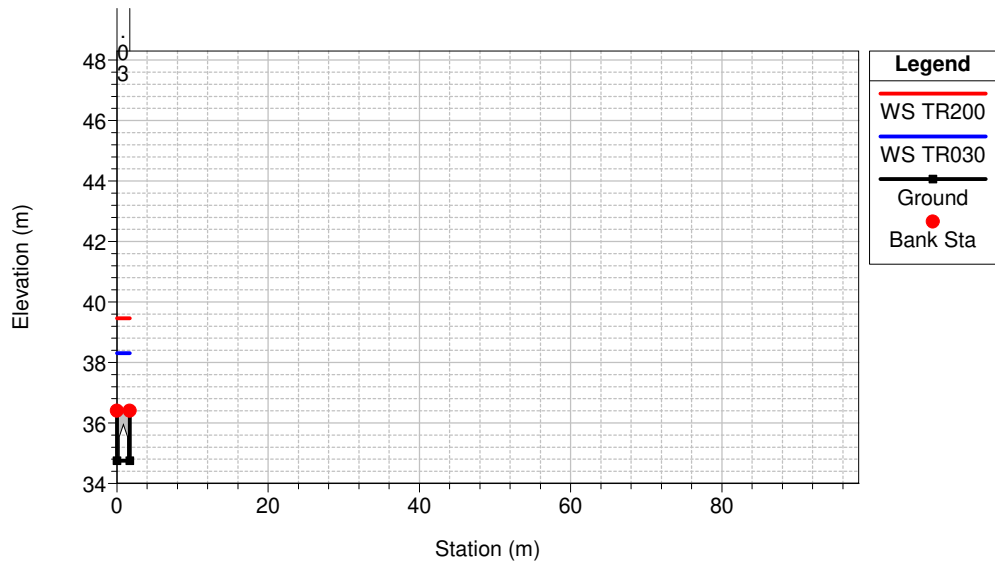
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 207.97 Sez 05



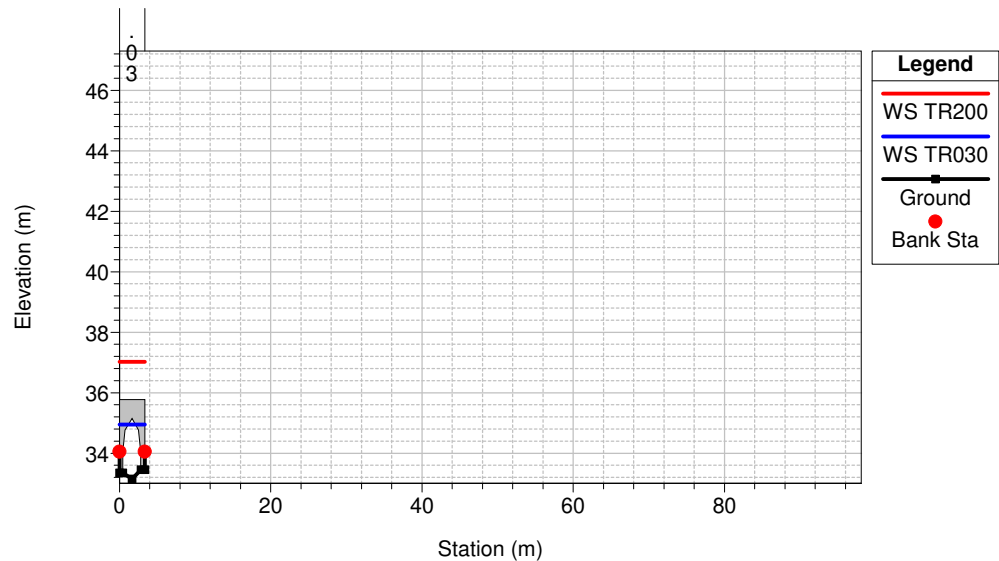
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 205.42 Sez 03 monte

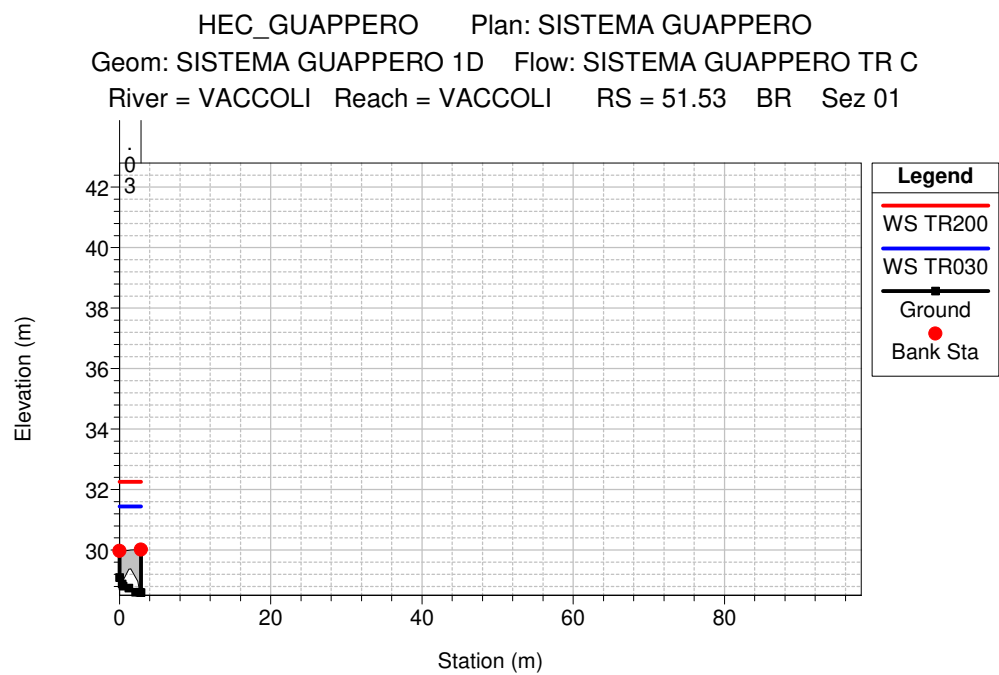
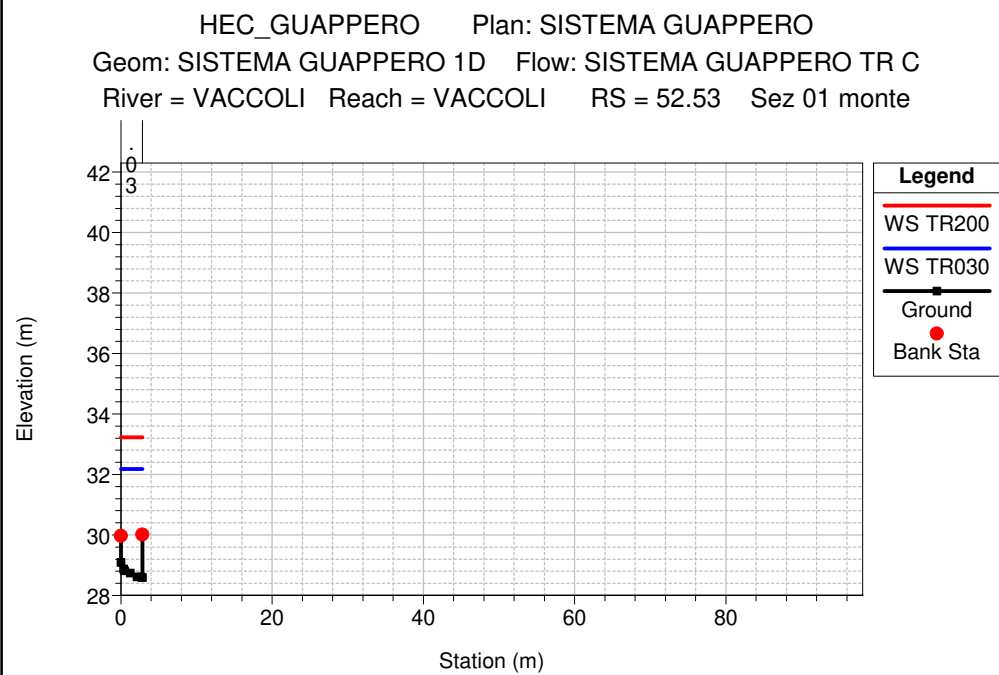
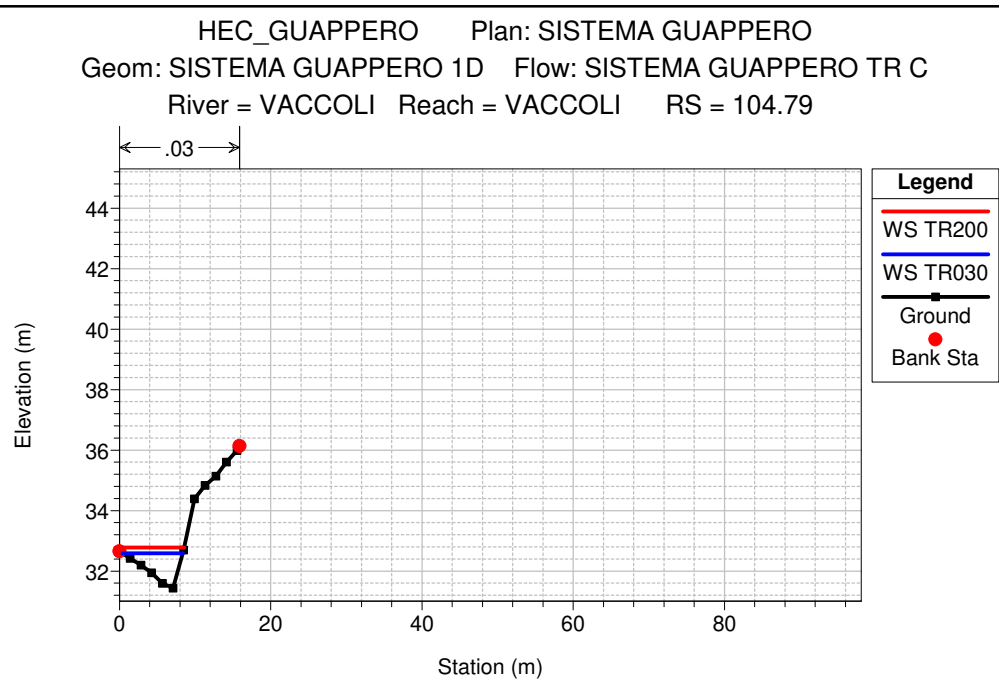
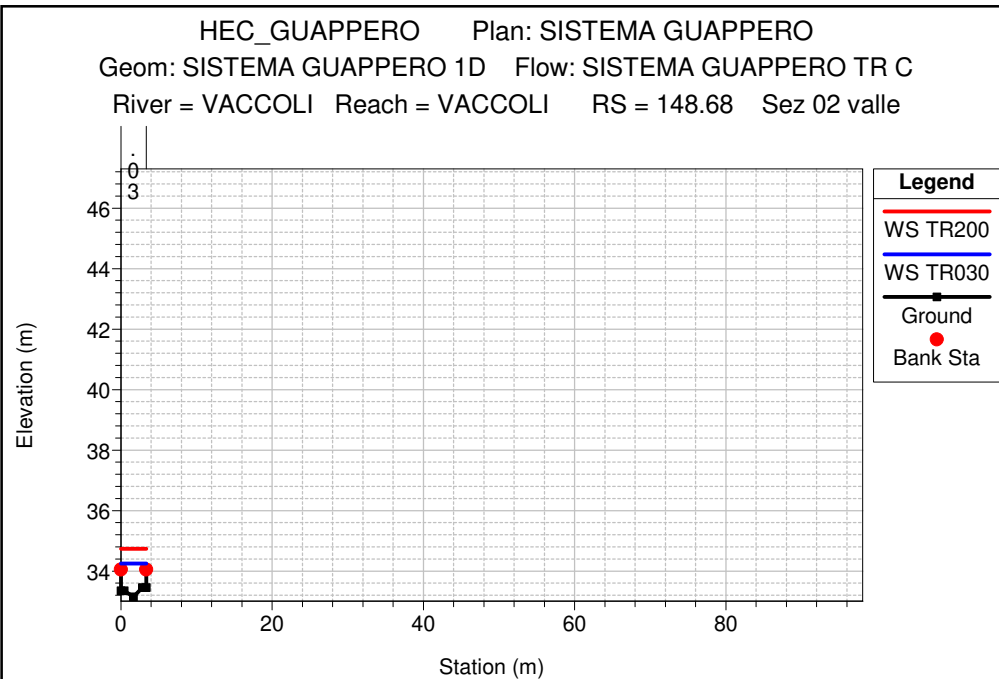


HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 204.42 BR Sez 03 - 02

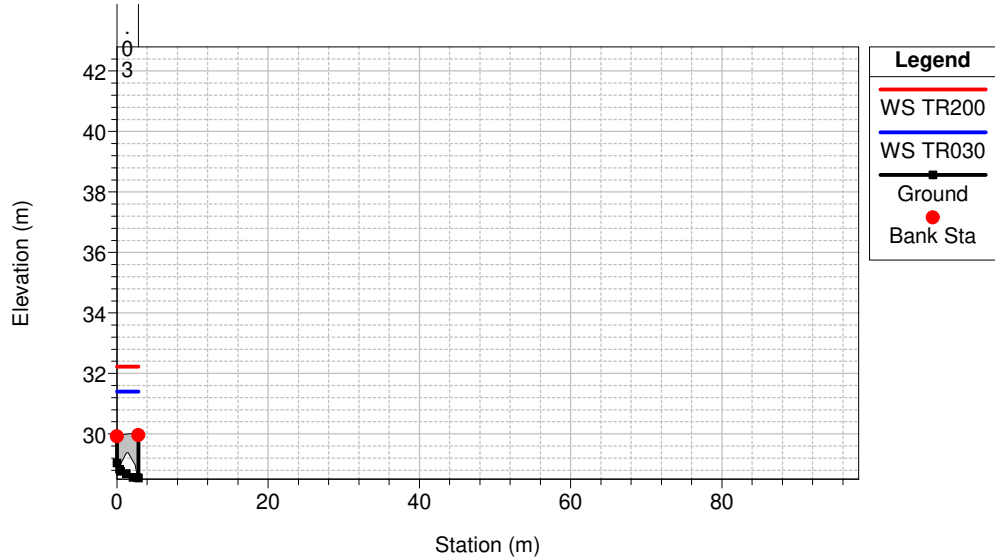


HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 204.42 BR Sez 03 - 02

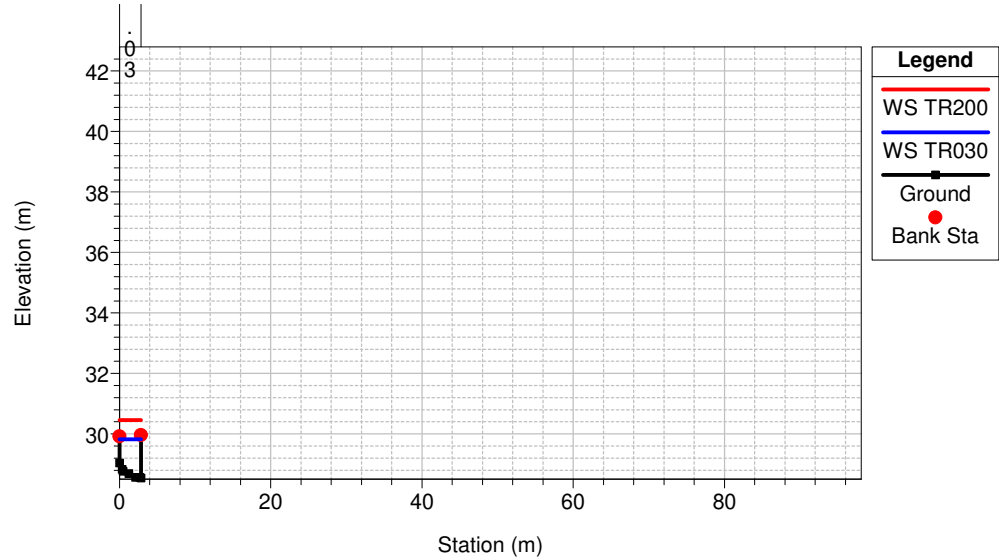




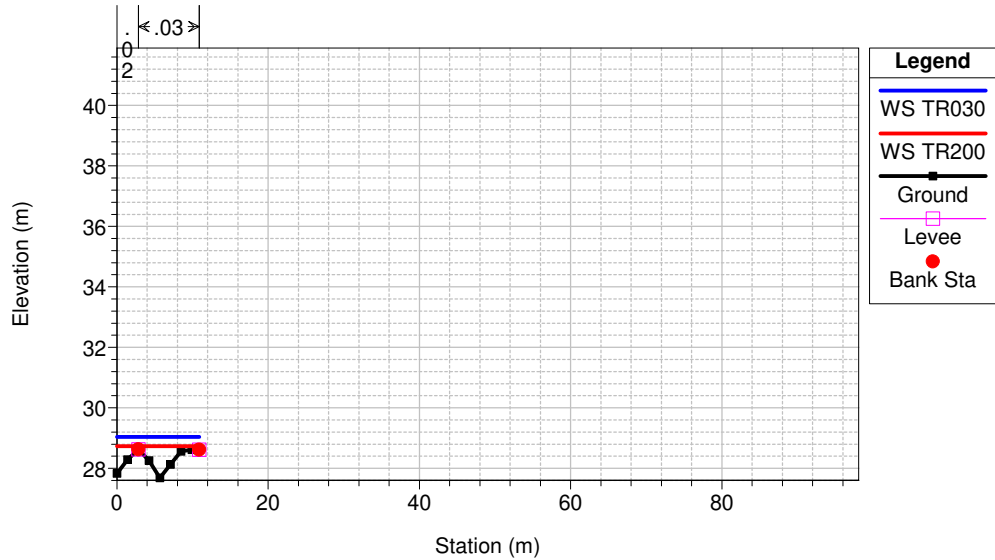
HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 51.53 BR Sez 01



HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 40.73 Sez 01 valle



HEC_GUAPPERO Plan: SISTEMA GUAPPERO
 Geom: SISTEMA GUAPPERO 1D Flow: SISTEMA GUAPPERO TR C
 River = VACCOLI Reach = VACCOLI RS = 11.86



River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Max Chl Dpth (m)	LOB Elev (m)	ROB Elev (m)	L. Freeboard (m)	R. Freeboard (m)	Vel Chnl (m/s)	Froude # Chl	Length Chnl (m)
VACCOLI	VACCOLI	546.50	TR030	21.75	51.65	54.53	2.88	53.72	55.19	-0.81	0.66	0.66	0.16	19.33
VACCOLI	VACCOLI	546.50	TR200	37.95	51.65	56.78	5.13	53.72	55.19	-3.06	-1.59	0.45	0.08	19.33
VACCOLI	VACCOLI	528.17	TR030	21.75	48.88	54.10	5.22	50.12	50.12	-3.98	-3.98	2.81	0.39	59.50
VACCOLI	VACCOLI	528.17	TR200	37.95	48.88	56.08	7.20	50.12	50.12	-5.96	-5.96	3.56	0.42	59.50
VACCOLI	VACCOLI	527.17												
				Culvert										
VACCOLI	VACCOLI	468.67	TR030	21.75	46.90	49.97	3.07	48.16	48.16	-1.81	-1.81	5.49	1.00	49.36
VACCOLI	VACCOLI	468.67	TR200	37.95	46.90	51.35	4.45	48.16	48.16	-3.19	-3.19	6.61	1.00	49.36
VACCOLI	VACCOLI	420.53	TR030	21.75	46.77	47.90	1.13	48.64	49.28	0.74	1.38	4.81	1.83	43.23
VACCOLI	VACCOLI	420.53	TR200	37.95	46.77	48.10	1.33	48.64	49.28	0.54	1.18	6.48	2.29	43.23
VACCOLI	VACCOLI	377.30	TR030	21.75	43.12	43.93	0.80	45.32	45.73	1.40	1.80	6.93	3.11	50.53
VACCOLI	VACCOLI	377.30	TR200	37.95	43.12	44.20	1.08	45.32	45.73	1.12	1.53	7.55	2.95	50.53
VACCOLI	VACCOLI	326.78	TR030	21.75	40.24	41.62	1.38	43.81	43.93	2.19	2.31	4.96	1.87	33.79
VACCOLI	VACCOLI	326.78	TR200	37.95	40.24	41.92	1.68	43.81	43.93	1.88	2.01	5.93	2.00	33.79
VACCOLI	VACCOLI	292.99	TR030	21.75	38.75	40.12	1.37	42.81	42.10	2.68	1.98	5.13	1.96	60.41
VACCOLI	VACCOLI	292.99	TR200	37.95	38.75	40.45	1.69	42.81	42.10	2.36	1.65	6.00	1.99	60.41
VACCOLI	VACCOLI	232.58	TR030	21.75	37.22	39.63	2.41	40.35	39.69	0.72	0.06	1.64	0.43	24.60
VACCOLI	VACCOLI	232.58	TR200	37.95	37.22	41.49	4.27	40.35	39.69	-1.14	-1.80	0.91	0.19	24.60
VACCOLI	VACCOLI	207.97	TR030	21.75	36.43	39.64	3.21	37.28	36.87	-2.36	-2.77	1.01	0.18	2.56
VACCOLI	VACCOLI	207.97	TR200	37.95	36.43	41.41	4.98	37.28	36.87	-4.13	-4.54	1.08	0.16	2.56
VACCOLI	VACCOLI	205.42	TR030	21.75	34.75	39.29	4.54	36.40	36.40	-2.89	-2.89	2.82	0.42	1.00
VACCOLI	VACCOLI	205.42	TR200	37.95	34.75	40.75	6.00	36.40	36.40	-4.35	-4.35	3.72	0.48	1.00
VACCOLI	VACCOLI	204.42												
				Bridge										
VACCOLI	VACCOLI	148.68	TR030	21.75	33.15	34.24	1.09	34.05	34.05	-0.19	-0.19	6.95	2.30	43.89
VACCOLI	VACCOLI	148.68	TR200	37.95	33.15	34.73	1.58	34.05	34.05	-0.68	-0.68	7.95	2.13	43.89
VACCOLI	VACCOLI	104.79	TR030	21.75	31.43	32.59	1.16	32.65	36.14	0.06	3.55	4.67	1.96	53.25
VACCOLI	VACCOLI	104.79	TR200	37.95	31.43	32.78	1.35	32.65	36.14	-0.13	3.36	6.07	2.27	53.25
VACCOLI	VACCOLI	52.53	TR030	21.75	28.59	32.18	3.59	29.97	30.01	-2.21	-2.17	2.22	0.38	1.00
VACCOLI	VACCOLI	52.53	TR200	37.95	28.59	33.23	4.64	29.97	30.01	-3.26	-3.22	2.97	0.45	1.00
VACCOLI	VACCOLI	51.53												
				Bridge										
VACCOLI	VACCOLI	40.73	TR030	21.75	28.54	29.82	1.28	29.92	29.96	0.10	0.14	6.72	2.01	13.99
VACCOLI	VACCOLI	40.73	TR200	37.95	28.54	30.46	1.92	29.92	29.96	-0.54	-0.50	7.49	1.79	13.99
VACCOLI	VACCOLI	11.86	TR030	21.75	27.69	29.04	1.35	28.62	28.61	-0.42	-0.43	2.46	0.91	23.11
VACCOLI	VACCOLI	11.86	TR200	37.95	27.69	28.74	1.05	28.62	28.61	-0.11	-0.13	7.06	3.39	23.11
QUERCETO	QUERCETO	782.33	TR030	12.15	89.51	91.03	1.52	90.95	91.25	-0.08	0.22	3.48	1.54	26.37
QUERCETO	QUERCETO	782.33	TR200	19.79	89.51	91.22	1.71	90.95	91.25	-0.27	0.03	4.16	1.58	26.37
QUERCETO	QUERCETO	755.96	TR030	12.15	88.55	89.81	1.26	89.71	90.44	-0.10	0.63	4.15	1.58	21.40
QUERCETO	QUERCETO	755.96	TR200	19.79	88.55	90.08	1.53	89.71	90.44	-0.37	0.96	4.70	1.53	21.40
QUERCETO	QUERCETO	734.56	TR030	12.15	87.80	89.27	1.47	89.19	89.80	-0.08	0.53	3.71	1.34	6.97
QUERCETO	QUERCETO	734.56	TR200	19.79	87.80	89.46	1.66	89.19	89.80	-0.27	0.34	4.51	1.46	6.97
QUERCETO	QUERCETO	727.59	TR030	12.15	87.54	88.77	1.23	88.71	90.31	-0.06	1.54	4.37	1.63	18.02
QUERCETO	QUERCETO	727.59	TR200	19.79	87.54	88.90	1.36	88.71	90.31	-0.19	1.41	5.24	1.81	18.02
QUERCETO	QUERCETO	709.58	TR030	12.15	86.84	88.36	1.52	88.59	88.27	0.23	-0.09	3.44	1.51	19.19
QUERCETO	QUERCETO	709.58	TR200	19.79	86.84	88.57	1.73	88.59	88.27	0.02	-0.30	3.87	1.56	19.19
QUERCETO	QUERCETO	690.39	TR030	12.15	86.43	88.03	1.60	88.15	88.12	0.12	0.09	2.91	1.17	9.62
QUERCETO	QUERCETO	690.39	TR200	19.79	86.43	88.60	2.17	88.15	88.12	-0.45	-0.48	1.87	0.63	9.62
QUERCETO	QUERCETO	680.76	TR030	12.15	86.29	87.80	1.51	87.69	87.86	-0.11	0.06	3.07	1.23	24.40
QUERCETO	QUERCETO	680.76	TR200	19.79	86.29	88.18	1.89	87.69	87.86	-0.49	-0.32	3.12	1.00	24.40
QUERCETO	QUERCETO	656.36	TR030	12.15	85.14	87.63	2.49	87.05	87.65	-0.58	0.02	1.36	0.45	3.65
QUERCETO	QUERCETO	656.36	TR200	19.79	85.14	87.89	2.75	87.05	87.65	-0.84	-0.24	1.72	0.51	3.65
QUERCETO	QUERCETO	653.72	TR030	12.15	84.86	87.64	2.78	87.35	87.35	-0.29	-0.29	1.23	0.25	1.00
QUERCETO	QUERCETO	653.72	TR200	19.79	84.86	87.89	3.03	87.35	87.35	-0.54	-0.54	1.68	0.33	1.00
QUERCETO	QUERCETO	652.72												
				Bridge										
QUERCETO	QUERCETO	641.42	TR030	12.15	84.86	87.25	2.39	87.35	87.35	0.10	0.10	1.71	0.38	0.89
QUERCETO	QUERCETO	641.42	TR200	19.79	84.86	87.52	2.66	87.35	87.35	-0.17	-0.17	2.19	0.46	0.89
QUERCETO	QUERCETO	640.53	TR030	12.15	84.66	87.34	2.68	86.53	86.40	-0.81	-0.94	0.69	0.16	9.14
QUERCETO	QUERCETO	640.53	TR200	19.79	84.66	87.65	2.99	86.53	86.40	-1.12	-1.25	0.96	0.21	9.14
QUERCETO	QUERCETO	632.39	TR030	12.15	84.57	87.18	2.61	86.11	86.10	-1.07	-1.08	1.78	0.37	217.60
QUERCETO	QUERCETO	632.39	TR200	19.79	84.57	87.24	2.67	86.11	86.10	-1.13	-1.14	2.83	0.58	217.60
QUERCETO	QUERCETO	631.39												
				Culvert										
QUERCETO	QUERCETO	413.79	TR030	12.15	75.75	76.97	1.22	78.41	78.41	1.44	1.44	3.46	1.00	15.68
QUERCETO	QUERCETO	413.79	TR200	19.79	75.75	77.93	2.18	78.41	78.41	0.48	0.48	3.15	0.68	15.68
QUERCETO	QUERCETO	398.11	TR030	12.15	74.67	76.18	1.51	79.21	78.33	3.03	2.15	4.37	1.26	52.29
QUERCETO	QUERCETO	398.11	TR200	19.79	74.67	77.88	3.21	79.21	78.33	1.33	0.45	2.71	0.56	52.29
QUERCETO	QUERCETO	346.82	TR030	12.15	71.45	76.56	5.11	74.38	74.40	-2.18	-2.16	1.43	0.20	208.54
QUERCETO	QUERCETO	346.82	TR200	19.79	71.45	77.70	6.25	74.38	74.40	-3.32	-3.30	1.90	0.24	208.54
QUERCETO	QUERCETO	345.82												
				Culvert										
QUERCETO	QUERCETO	138.28	TR030	12.15	67.70	68.50	0.80	68.87	68.64	0.37	0.14	2.14	1.00	18.90
QUERCETO	QUERCETO	138.28	TR200	19.79	67.70	68.69	0.99	68.87	68.64	0.18	-0.05	2.38	1.01	18.90
QUERCETO	QUERCETO	119.38	TR030	12.15	66.31	67.22	0.91	68.91	68.30	1.69	1.08	4.40	2.33	25.43
QUERCETO	QUERCETO	119.38	TR200	19.79	66.31	67.41	1.10	68.91	68.30	1.50	0.89	4.64	2.11	25.43

HEC-RAS Plan: SISTEMA GUAPPERO (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Max Chl Dpth (m)	LOB Elev (m)	ROB Elev (m)	L. Freeboard (m)	R. Freeboard (m)	Vel Chnl (m/s)	Froude # Chl	Length Chnl (m)
QUERCETO	QUERCETO	93.95	TR030	12.15	65.64	66.41	0.77	67.77	66.51	1.36	0.10	3.17	1.60	29.93
QUERCETO	QUERCETO	93.95	TR200	19.79	65.64	66.56	0.92	67.77	66.51	1.21	-0.05	3.61	1.80	29.93
QUERCETO	QUERCETO	64.02	TR030	12.15	64.39	65.04	0.65	66.60	65.33	1.56	0.29	3.56	2.04	29.97
QUERCETO	QUERCETO	64.02	TR200	19.79	64.39	65.18	0.79	66.60	65.33	1.42	0.15	3.87	1.94	29.97
QUERCETO	QUERCETO	34.05	TR030	12.15	61.80	62.72	0.92	65.44	64.70	2.72	1.98	4.85	2.19	23.74
QUERCETO	QUERCETO	34.05	TR200	19.79	61.80	62.94	1.14	65.44	64.70	2.50	1.76	5.32	2.17	23.74
QUERCETO	QUERCETO	10.31	TR030	12.15	61.21	62.49	1.28	64.05	64.22	1.56	1.73	3.22	1.25	29.50
QUERCETO	QUERCETO	10.31	TR200	19.79	61.21	62.74	1.53	64.05	64.22	1.31	1.48	3.73	1.34	29.50
PANTALEONE	PANTALEONE	135	TR030	36.03	95.39	96.39	1.00	99.39	99.39	3.00	3.00	6.99	2.36	10.00
PANTALEONE	PANTALEONE	135	TR200	73.80	95.39	96.94	1.55	99.39	99.39	2.45	2.45	8.68	2.43	10.00
PANTALEONE	PANTALEONE	130	TR030	36.03	86.40	87.16	0.76	90.40	90.40	3.24	3.24	9.46	3.62	0.10
PANTALEONE	PANTALEONE	130	TR200	73.80	86.40	92.09	5.69	90.40	90.40	-1.69	-1.69	1.61	0.24	0.10
PANTALEONE	PANTALEONE	129		Bridge										
PANTALEONE	PANTALEONE	128	TR030	36.03	86.40	87.18	0.78	90.40	90.40	3.22	3.22	9.28	3.53	9.87
PANTALEONE	PANTALEONE	128	TR200	73.80	86.40	89.04	2.64	90.40	90.40	1.36	1.36	4.49	1.00	9.87
PANTALEONE	PANTALEONE	120	TR030	36.03	73.60	74.13	0.53	78.40	78.30	4.27	4.17	10.79	4.82	0.10
PANTALEONE	PANTALEONE	120	TR200	73.80	73.60	74.49	0.89	78.40	78.30	3.91	3.81	12.91	4.52	0.10
PANTALEONE	PANTALEONE	119		Bridge										
PANTALEONE	PANTALEONE	118	TR030	36.03	73.60	74.15	0.55	79.00	79.00	4.85	4.85	10.59	4.63	6.58
PANTALEONE	PANTALEONE	118	TR200	73.80	73.60	74.52	0.92	79.00	79.00	4.48	4.48	12.74	4.36	6.58
PANTALEONE	PANTALEONE	110	TR030	36.03	73.30	74.26	0.96	79.30	78.95	5.04	4.69	9.83	3.90	9.78
PANTALEONE	PANTALEONE	110	TR200	73.80	73.30	74.64	1.34	79.30	78.95	4.66	4.31	12.15	4.11	9.78
PANTALEONE	PANTALEONE	100	TR030	36.03	63.80	67.46	3.66	66.65	66.10	-0.81	-1.36	0.91	0.18	7.06
PANTALEONE	PANTALEONE	100	TR200	73.80	63.80	68.72	4.92	66.65	66.10	-2.07	-2.62	1.22	0.19	7.06
PANTALEONE	PANTALEONE	90	TR030	36.03	63.40	67.39	3.99	66.25	65.70	-1.14	-1.69	1.45	0.26	0.10
PANTALEONE	PANTALEONE	90	TR200	73.80	63.40	68.59	5.19	66.25	65.70	-2.34	-2.89	1.98	0.31	0.10
PANTALEONE	PANTALEONE	89		Bridge										
PANTALEONE	PANTALEONE	88	TR030	36.03	63.40	65.22	1.82	66.25	65.70	1.03	0.48	4.82	1.40	9.95
PANTALEONE	PANTALEONE	88	TR200	73.80	63.40	66.50	3.10	66.25	65.70	-0.25	-0.80	4.38	0.95	9.95
PANTALEONE	PANTALEONE	80	TR030	36.03	59.00	63.57	4.57	64.90	64.90	1.33	1.33	0.96	0.14	0.10
PANTALEONE	PANTALEONE	80	TR200	73.80	59.00	65.52	6.52	64.90	64.90	-0.62	-0.62	1.36	0.17	0.10
PANTALEONE	PANTALEONE	79		Bridge										
PANTALEONE	PANTALEONE	78	TR030	36.03	58.90	63.57	4.67	64.80	64.80	1.23	1.23	0.94	0.14	6.00
PANTALEONE	PANTALEONE	78	TR200	73.80	58.90	65.39	6.49	64.80	64.80	-0.59	-0.59	1.37	0.17	6.00
PANTALEONE	PANTALEONE	70	TR030	36.03	58.70	62.37	3.67	63.70	62.60	1.33	0.23	4.71	1.01	6.55
PANTALEONE	PANTALEONE	70	TR200	73.80	58.70	64.23	5.53	63.70	62.60	-0.52	-1.63	4.83	0.79	6.55
PANTALEONE	PANTALEONE	60	TR030	36.03	58.50	58.98	0.48	59.50	59.90	0.52	0.92	7.92	3.99	5.22
PANTALEONE	PANTALEONE	60	TR200	73.80	58.50	59.21	0.71	59.50	59.90	0.29	0.69	9.74	4.48	5.22
PANTALEONE	PANTALEONE	59	TR030	36.03	57.70	58.30	0.60	60.20	60.20	1.90	1.90	7.26	3.05	9.48
PANTALEONE	PANTALEONE	59	TR200	73.80	57.70	58.67	0.97	60.20	60.20	1.53	1.53	9.00	3.01	9.48
PANTALEONE	PANTALEONE	50	TR030	36.03	53.90	55.42	1.52	58.00	59.30	2.58	3.88	6.12	2.05	8.36
PANTALEONE	PANTALEONE	50	TR200	73.80	53.90	55.97	2.07	58.00	59.30	2.03	3.33	7.60	2.14	8.36
PANTALEONE	PANTALEONE	40	TR030	36.03	52.90	55.50	2.60	60.60	60.60	5.10	5.10	1.27	0.29	0.10
PANTALEONE	PANTALEONE	40	TR200	73.80	52.90	57.70	4.80	60.60	60.60	2.90	2.90	1.21	0.19	0.10
PANTALEONE	PANTALEONE	39		Bridge										
PANTALEONE	PANTALEONE	38	TR030	36.03	52.90	55.49	2.59	60.60	60.60	5.11	5.11	1.28	0.29	9.65
PANTALEONE	PANTALEONE	38	TR200	73.80	52.90	57.69	4.79	60.60	60.60	2.91	2.91	1.21	0.19	9.65
PANTALEONE	PANTALEONE	30	TR030	36.03	52.70	55.39	2.69	56.10	56.85	0.71	1.46	1.83	0.41	9.07
PANTALEONE	PANTALEONE	30	TR200	73.80	52.70	57.59	4.89	56.10	56.85	-1.49	-0.74	1.78	0.28	9.07
PANTALEONE	PANTALEONE	20	TR030	36.03	52.10	55.41	3.31	57.35	56.10	1.94	0.69	1.32	0.28	8.37
PANTALEONE	PANTALEONE	20	TR200	73.80	52.10	57.61	5.51	57.35	56.10	-0.26	-1.51	1.35	0.21	8.37
PANTALEONE	PANTALEONE	10	TR030	36.03	51.80	55.36	3.56	55.50	55.10	0.14	-0.26	1.47	0.28	64.54
PANTALEONE	PANTALEONE	10	TR200	73.80	51.80	57.54	5.74	55.50	55.10	-2.04	-2.44	1.69	0.24	64.54
GUAPPERO	GUAPPERO CENTRO	323.6	TR030	97.81	48.49	55.12	6.63	52.49	52.49	-2.63	-2.63	2.34	0.29	1.00
GUAPPERO	GUAPPERO CENTRO	323.6	TR200	169.19	48.49	57.09	8.60	52.49	52.49	-4.60	-4.60	3.09	0.34	1.00
GUAPPERO	GUAPPERO CENTRO	323.4		Bridge										
GUAPPERO	GUAPPERO CENTRO	323.3	TR030	97.81	48.44	54.18	5.74	52.44	52.44	-1.74	-1.74	2.71	0.37	10.00
GUAPPERO	GUAPPERO CENTRO	323.3	TR200	169.19	48.44	55.77	7.33	52.44	52.44	-3.33	-3.33	3.65	0.44	10.00
GUAPPERO	GUAPPERO CENTRO	323.25	TR030	97.81	48.23	54.16	5.93	52.03	52.03	-2.13	-2.13	2.62	0.35	10.00
GUAPPERO	GUAPPERO CENTRO	323.25	TR200	169.19	48.23	55.74	7.51	52.03	52.03	-3.71	-3.71	3.56	0.42	10.00
GUAPPERO	GUAPPERO CENTRO	323.2	TR030	97.81	48.09	54.16	6.07	52.09	52.09	-2.07	-2.07	2.56	0.34	1.00
GUAPPERO	GUAPPERO CENTRO	323.2	TR200	169.19	48.09	55.73	7.64	52.09	52.09	-3.64	-3.64	3.49	0.41	1.00
GUAPPERO	GUAPPERO CENTRO	323.1		Bridge										
GUAPPERO	GUAPPERO CENTRO	323.05	TR030	97.81	47.15	51.57	4.42	50.95	50.95	-0.62	-0.62	3.56	0.55	9.00
GUAPPERO	GUAPPERO CENTRO	323.05	TR200	169.19	47.15	52.87	5.72	50.95	50.95	-1.92	-1.92	4.71	0.64	9.00
GUAPPERO	GUAPPERO CENTRO	322	TR030	97.81	47.15	51.31	4.16	50.95	50.95	-0.36	-0.36	3.79	0.61	47.10
GUAPPERO	GUAPPERO CENTRO	322	TR200	169.19	47.15	52.31	5.16	50.95	50.95	-1.36	-1.36	5.23	0.75	47.10
GUAPPERO	GUAPPERO CENTRO	320	TR030	97.81	46.40	51.18	4.78	50.70	50.20	-0.48	-0.98	4.01	0.62	0.10
GUAPPERO	GUAPPERO CENTRO	320	TR200	169.19	46.40	52.36	5.96	50.70	50.20	-1.66	-2.16	5.03	0.69	0.10
GUAPPERO	GUAPPERO CENTRO	319		Bridge										

HEC-RAS Plan: SISTEMA GUAPPERO (Continued)

River	Reach	River Sta	Profile	Q Total (m ³ /s)	Min Ch El (m)	W. S. Elev (m)	Max Chl Dpth (m)	LOB Elev (m)	ROB Elev (m)	L. Freeboard (m)	R. Freeboard (m)	Vel Chnl (m/s)	Froude # Chl	Length Chnl (m)
GUAPPERO	GUAPPERO CENTRO	318	TR030	97.81	46.40	50.47	4.07	50.70	50.20	0.23	-0.27	5.09	0.87	42.50
GUAPPERO	GUAPPERO CENTRO	318	TR200	169.19	46.40	51.67	5.27	50.70	50.20	-0.97	-1.47	5.98	0.88	42.50
GUAPPERO	GUAPPERO CENTRO	310	TR030	97.81	45.60	47.45	1.85	47.40	47.10	-0.05	-0.35	8.94	2.72	0.10
GUAPPERO	GUAPPERO CENTRO	310	TR200	169.19	45.60	47.92	2.32	47.40	47.10	-0.52	-0.82	10.24	2.61	0.10
GUAPPERO	GUAPPERO CENTRO	309		Bridge										
GUAPPERO	GUAPPERO CENTRO	308	TR030	97.81	45.60	47.47	1.87	47.40	47.10	-0.07	-0.37	8.76	2.64	10.00
GUAPPERO	GUAPPERO CENTRO	308	TR200	169.19	45.60	47.96	2.36	47.40	47.10	-0.56	-0.86	9.93	2.50	10.00
GUAPPERO	GUAPPERO CENTRO	300	TR030	97.81	43.63	46.09	2.46	47.93	48.18	1.84	2.09	6.55	1.66	8.88
GUAPPERO	GUAPPERO CENTRO	300	TR200	169.19	43.63	46.83	3.20	47.93	48.18	1.10	1.35	7.37	1.74	8.88
GUAPPERO	GUAPPERO CENTRO	290	TR030	97.81	42.70	47.25	4.55	47.00	46.70	-0.25	-0.55	3.07	0.52	0.10
GUAPPERO	GUAPPERO CENTRO	290	TR200	169.19	42.70	47.82	5.12	47.00	46.70	-0.82	-1.12	4.54	0.71	0.10
GUAPPERO	GUAPPERO CENTRO	289		Bridge										
GUAPPERO	GUAPPERO CENTRO	288	TR030	97.81	42.70	45.93	3.23	47.00	46.70	1.07	0.77	4.84	1.00	6.25
GUAPPERO	GUAPPERO CENTRO	288	TR200	169.19	42.70	47.65	4.95	47.00	46.70	-0.65	-0.95	4.75	0.76	6.25
GUAPPERO	GUAPPERO CENTRO	285	TR030	97.81	42.61	44.93	2.32	45.66	45.36	0.73	0.43	6.29	1.81	6.25
GUAPPERO	GUAPPERO CENTRO	285	TR200	169.19	42.61	48.12	5.51	45.66	45.36	-2.46	-2.76	2.97	0.45	6.25
GUAPPERO	GUAPPERO CENTRO	283	TR030	97.81	42.52	44.97	2.45	45.27	44.97	0.30	-0.01	5.63	1.55	9.29
GUAPPERO	GUAPPERO CENTRO	283	TR200	169.19	42.52	48.12	5.60	45.27	44.97	-2.85	-3.15	2.91	0.44	9.29
GUAPPERO	GUAPPERO CENTRO	280	TR030	97.81	41.70	45.69	3.99	44.30	44.30	-1.39	-1.39	2.43	0.47	0.10
GUAPPERO	GUAPPERO CENTRO	280	TR200	169.19	41.70	48.12	6.42	44.30	44.30	-3.82	-3.82	2.24	0.31	0.10
GUAPPERO	GUAPPERO CENTRO	279		Bridge										
GUAPPERO	GUAPPERO CENTRO	278	TR030	97.81	41.70	45.65	3.95	44.30	44.30	-1.35	-1.35	2.47	0.48	9.83
GUAPPERO	GUAPPERO CENTRO	278	TR200	169.19	41.70	48.09	6.39	44.30	44.30	-3.79	-3.79	2.25	0.32	9.83
GUAPPERO	GUAPPERO CENTRO	261	TR030	97.81	40.20	45.15	4.95	43.30	43.30	-1.85	-1.85	3.54	0.53	1.00
GUAPPERO	GUAPPERO CENTRO	261	TR200	169.19	40.20	47.29	7.09	43.30	43.30	-3.99	-3.99	4.18	0.51	1.00
GUAPPERO	GUAPPERO CENTRO	260		Bridge										
GUAPPERO	GUAPPERO CENTRO	258	TR030	97.81	40.10	43.45	3.34	43.10	43.10	-0.35	-0.35	5.43	1.00	9.47
GUAPPERO	GUAPPERO CENTRO	258	TR200	169.19	40.10	44.76	4.66	43.10	43.10	-1.66	-1.66	6.53	1.00	9.47
GUAPPERO	GUAPPERO CENTRO	257	TR030	97.81	39.89	43.14	3.25	42.96	43.25	-0.18	0.11	5.07	1.03	9.47
GUAPPERO	GUAPPERO CENTRO	257	TR200	169.19	39.89	43.38	3.49	42.96	43.25	-0.42	-0.13	7.91	1.53	9.47
GUAPPERO	GUAPPERO CENTRO	256	TR030	97.81	39.68	43.65	3.97	42.82	43.39	-0.83	-0.26	3.48	0.67	9.47
GUAPPERO	GUAPPERO CENTRO	256	TR200	169.19	39.68	43.06	3.38	42.82	43.39	-0.24	0.34	8.11	1.76	9.47
GUAPPERO	GUAPPERO CENTRO	255	TR030	97.81	39.47	43.77	4.30	42.68	43.54	-1.09	-0.23	2.86	0.56	1.00
GUAPPERO	GUAPPERO CENTRO	255	TR200	169.19	39.47	42.95	3.48	42.68	43.54	-0.27	0.59	8.05	1.90	1.00
GUAPPERO	GUAPPERO CENTRO	254		Bridge										
GUAPPERO	GUAPPERO CENTRO	253	TR030	97.81	39.47	43.21	3.74	42.68	43.54	-0.53	0.33	3.91	0.86	9.55
GUAPPERO	GUAPPERO CENTRO	253	TR200	169.19	39.47	43.03	3.56	42.68	43.54	-0.35	0.51	7.63	1.76	9.55
GUAPPERO	GUAPPERO CENTRO	252	TR030	97.81	39.21	41.72	2.51	42.42	42.85	0.69	1.12	6.28	1.51	7.93
GUAPPERO	GUAPPERO CENTRO	252	TR200	169.19	39.21	42.28	3.07	42.42	42.85	0.14	0.57	8.17	1.79	7.93
GUAPPERO	GUAPPERO CENTRO	250	TR030	97.81	39.00	41.62	2.62	42.20	42.20	0.58	0.58	6.23	1.42	0.10
GUAPPERO	GUAPPERO CENTRO	250	TR200	169.19	39.00	42.22	3.22	42.20	42.20	-0.02	-0.02	8.09	1.69	0.10
GUAPPERO	GUAPPERO CENTRO	249		Bridge										
GUAPPERO	GUAPPERO CENTRO	248	TR030	97.81	39.00	41.64	2.64	42.20	42.20	0.56	0.56	6.14	1.39	8.58
GUAPPERO	GUAPPERO CENTRO	248	TR200	169.19	39.00	42.34	3.34	42.20	42.20	-0.14	-0.14	7.65	1.56	8.58
GUAPPERO	GUAPPERO CENTRO	247	TR030	97.81	38.78	41.16	2.38	41.75	42.07	0.58	0.91	6.58	1.57	7.15
GUAPPERO	GUAPPERO CENTRO	247	TR200	169.19	38.78	41.90	3.12	41.75	42.07	-0.16	0.17	7.92	1.65	7.15
GUAPPERO	GUAPPERO CENTRO	246	TR030	97.81	38.56	42.64	4.08	41.29	41.94	-1.35	-0.70	3.12	0.57	1.00
GUAPPERO	GUAPPERO CENTRO	246	TR200	169.19	38.56	41.84	3.28	41.29	41.94	-0.55	0.10	7.94	1.69	1.00
GUAPPERO	GUAPPERO CENTRO	245		Bridge										
GUAPPERO	GUAPPERO CENTRO	244	TR030	97.81	38.56	41.99	3.43	41.29	41.94	-0.70	-0.05	4.24	0.87	9.93
GUAPPERO	GUAPPERO CENTRO	244	TR200	169.19	38.56	41.95	3.39	41.29	41.94	-0.66	-0.01	7.52	1.56	9.93
GUAPPERO	GUAPPERO CENTRO	240	TR030	97.81	36.10	41.08	4.98	40.40	40.50	-0.68	-0.58	2.35	0.38	0.10
GUAPPERO	GUAPPERO CENTRO	240	TR200	169.19	36.10	42.08	5.98	40.40	40.50	-1.68	-1.58	3.26	0.47	0.10
GUAPPERO	GUAPPERO CENTRO	239		Bridge										
GUAPPERO	GUAPPERO CENTRO	238	TR030	97.81	36.10	38.99	2.89	40.40	40.50	1.41	1.51	4.73	1.01	8.25
GUAPPERO	GUAPPERO CENTRO	238	TR200	169.19	36.10	40.46	4.36	40.40	40.50	-0.06	0.04	4.83	0.84	8.25
GUAPPERO	GUAPPERO CENTRO	230	TR030	97.81	35.65	38.97	3.32	38.25	38.35	-0.72	-0.62	1.78	0.37	0.10
GUAPPERO	GUAPPERO CENTRO	230	TR200	169.19	35.65	41.19	5.54	38.25	38.35	-2.94	-2.84	1.60	0.24	0.10
GUAPPERO	GUAPPERO CENTRO	229		Bridge										
GUAPPERO	GUAPPERO CENTRO	228	TR030	97.81	35.65	37.13	1.48	38.25	38.35	1.12	1.22	5.99	1.99	9.91
GUAPPERO	GUAPPERO CENTRO	228	TR200	169.19	35.65	38.33	2.68	38.25	38.35	-0.08	0.02	4.19	1.00	9.91
GUAPPERO	GUAPPERO CENTRO	220	TR030	97.81	33.12	34.85	1.73	37.02	36.32	2.17	1.47	5.32	1.49	10.00
GUAPPERO	GUAPPERO CENTRO	220	TR200	169.19	33.12	35.52	2.40	37.02	36.32	1.50	0.80	5.73	1.49	10.00
GUAPPERO	GUAPPERO CENTRO	210	TR030	97.81	30.80	32.69	1.89	34.45	33.98	1.76	1.29	4.58	1.39	9.46
GUAPPERO	GUAPPERO CENTRO	210	TR200	169.19	30.80	33.14	2.34	34.45	33.98	1.31	0.84	5.56	1.47	9.46
GUAPPERO	GUAPPERO CENTRO	200	TR030	97.81	29.27	31.67	2.40	32.42	32.47	0.75	0.80	3.93	1.01	9.64
GUAPPERO	GUAPPERO CENTRO	200	TR200	169.19	29.27	32.14	2.87	32.42	32.47	0.28	0.33	5.14	1.21	9.64
GUAPPERO	GUAPPERO CENTRO	190	TR030	97.81	28.48	30.84	2.36	31.18	31.33	0.34	0.49	4.39	1.12	9.81
GUAPPERO	GUAPPERO CENTRO	190	TR200	169.19	28.48	31.43	2.95	31.18	31.33	-0.25	-0.10	5.40	1.23	9.81

HEC-RAS Plan: SISTEMA GUAPPERO (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W. S. Elev (m)	Max Chl Dpth (m)	LOB Elev (m)	ROB Elev (m)	L. Freeboard (m)	R. Freeboard (m)	Vel Chnl (m/s)	Froude # Chl	Length Chnl (m)
GUAPPERO	GUAPPERO CENTRO	171	TR030	97.81	25.75	31.04	5.29	28.85	29.05	-2.19	-1.99	1.58	0.25	1.00
GUAPPERO	GUAPPERO CENTRO	171	TR200	169.19	25.75	31.91	6.16	28.85	29.05	-3.06	-2.86	2.25	0.33	1.00
GUAPPERO	GUAPPERO CENTRO	170		Bridge										
GUAPPERO	GUAPPERO CENTRO	165	TR030	97.81	25.75	28.50	2.75	28.85	29.05	0.34	0.54	4.22	1.01	157.28
GUAPPERO	GUAPPERO CENTRO	165	TR200	169.19	25.75	29.35	3.60	28.85	29.05	-0.50	-0.30	4.75	1.00	157.28
GUAPPERO	GUAPPERO VALLE	160	TR030	139.66	24.58	27.68	3.10	27.68	27.88	0.00	0.20	4.90	1.14	10.00
GUAPPERO	GUAPPERO VALLE	160	TR200	239.05	24.58	28.65	4.07	27.68	27.88	-0.97	-0.77	5.33	1.02	10.00
GUAPPERO	GUAPPERO VALLE	150	TR030	139.66	22.41	26.28	3.87	26.16	25.96	-0.12	-0.32	3.59	0.74	9.75
GUAPPERO	GUAPPERO VALLE	150	TR200	239.05	22.41	28.28	5.87	26.16	25.96	-2.12	-2.32	3.33	0.51	9.75
GUAPPERO	GUAPPERO VALLE	141	TR030	139.66	21.85	26.45	4.60	25.25	25.25	-1.20	-1.20	2.41	0.39	1.00
GUAPPERO	GUAPPERO VALLE	141	TR200	239.05	21.85	28.35	6.50	25.25	25.25	-3.10	-3.10	2.77	0.37	1.00
GUAPPERO	GUAPPERO VALLE	140		Bridge										
GUAPPERO	GUAPPERO VALLE	137	TR030	139.66	21.85	24.66	2.81	25.25	25.25	0.59	0.59	4.46	0.95	9.79
GUAPPERO	GUAPPERO VALLE	137	TR200	239.05	21.85	26.58	4.73	25.25	25.25	-1.33	-1.33	3.99	0.64	9.79
GUAPPERO	GUAPPERO VALLE	135	TR030	139.66	20.47	24.93	4.46	23.87	23.87	-1.06	-1.06	2.50	0.41	
GUAPPERO	GUAPPERO VALLE	135	TR200	239.05	20.47	26.69	6.22	23.87	23.87	-2.82	-2.82	2.91	0.40	
GUAPPERINO	GUAPPERINO	1595.99	TR030	14.33	83.74	84.72	0.98	88.19	84.60	3.46	-0.13	4.60	2.16	24.10
GUAPPERINO	GUAPPERINO	1595.99	TR200	24.03	83.74	84.90	1.16	88.19	84.60	3.28	-0.31	5.53	2.22	24.10
GUAPPERINO	GUAPPERINO	1572.89	TR030	14.33	82.26	83.26	1.01	84.14	83.32	0.88	0.05	3.77	2.41	26.91
GUAPPERINO	GUAPPERINO	1572.89	TR200	24.03	82.26	85.04	2.78	84.14	83.32	-0.89	-1.72	0.55	0.15	26.91
GUAPPERINO	GUAPPERINO	1545.98	TR030	14.33	81.72	83.72	2.00	83.32	83.07	-0.40	-0.65	0.48	0.14	31.65
GUAPPERINO	GUAPPERINO	1545.98	TR200	24.03	81.72	85.04	3.32	83.32	83.07	-1.72	-1.97	0.36	0.07	31.65
GUAPPERINO	GUAPPERINO	1514.33	TR030	14.33	81.06	83.72	2.66	83.37	82.85	-0.35	-0.87	0.24	0.06	12.29
GUAPPERINO	GUAPPERINO	1514.33	TR200	24.03	81.06	85.05	3.98	83.37	82.85	-1.68	-2.19	0.22	0.04	12.29
GUAPPERINO	GUAPPERINO	1502.04	TR030	14.33	81.26	83.72	2.46	82.89	82.25	-0.83	-1.48	0.20	0.05	17.06
GUAPPERINO	GUAPPERINO	1502.04	TR200	24.03	81.26	85.05	3.78	82.89	82.25	-2.15	-2.80	0.19	0.03	17.06
GUAPPERINO	GUAPPERINO	1484.98	TR030	14.33	80.60	83.72	3.12	83.35	81.33	-0.38	-2.39	0.19	0.04	5.63
GUAPPERINO	GUAPPERINO	1484.98	TR200	24.03	80.60	85.05	4.44	83.35	81.33	-1.70	-3.71	0.20	0.03	5.63
GUAPPERINO	GUAPPERINO	1479.35	TR030	14.33	80.05	83.23	3.18	81.36	81.32	-1.87	-1.91	2.96	0.54	1.00
GUAPPERINO	GUAPPERINO	1479.35	TR200	24.03	80.05	84.27	4.22	81.36	81.32	-2.91	-2.95	3.73	0.58	1.00
GUAPPERINO	GUAPPERINO	1478.35		Bridge										
GUAPPERINO	GUAPPERINO	1474.35	TR030	14.33	80.05	81.68	1.63	81.36	81.32	-0.32	-0.36	5.89	1.50	4.42
GUAPPERINO	GUAPPERINO	1474.35	TR200	24.03	80.05	82.44	2.39	81.36	81.32	-1.08	-1.12	6.67	1.40	4.42
GUAPPERINO	GUAPPERINO	1469.93	TR030	14.33	80.14	80.59	0.46	81.72	81.94	1.13	1.35	6.62	4.34	22.20
GUAPPERINO	GUAPPERINO	1469.93	TR200	24.03	80.14	80.68	0.54	81.72	81.94	1.04	1.26	8.03	4.73	22.20
GUAPPERINO	GUAPPERINO	1447.72	TR030	14.33	79.62	80.45	0.82	81.07	82.05	0.63	1.60	2.72	1.49	25.58
GUAPPERINO	GUAPPERINO	1447.72	TR200	24.03	79.62	80.53	0.91	81.07	82.05	0.54	1.52	3.60	1.86	25.58
GUAPPERINO	GUAPPERINO	1422.15	TR030	14.33	78.11	80.08	1.97	80.56	80.39	0.48	0.31	0.77	0.24	6.99
GUAPPERINO	GUAPPERINO	1422.15	TR200	24.03	78.11	80.73	2.62	80.56	80.39	-0.17	-0.34	0.71	0.22	6.99
GUAPPERINO	GUAPPERINO	1415.16	TR030	14.33	77.85	79.86	2.01	79.20	79.20	-0.66	-0.66	2.07	0.53	1.00
GUAPPERINO	GUAPPERINO	1415.16	TR200	24.03	77.85	80.37	2.52	79.20	79.20	-1.17	-1.17	2.62	0.59	1.00
GUAPPERINO	GUAPPERINO	1414.16		Bridge										
GUAPPERINO	GUAPPERINO	1410.4	TR030	14.33	77.85	79.23	1.38	79.20	79.20	-0.03	-0.03	3.53	1.19	28.57
GUAPPERINO	GUAPPERINO	1410.4	TR200	24.03	77.85	79.46	1.61	79.20	79.20	-0.26	-0.26	4.72	1.42	28.57
GUAPPERINO	GUAPPERINO	1381.83	TR030	14.33	77.22	78.14	0.92	80.27	82.72	2.13	4.58	4.31	1.86	25.84
GUAPPERINO	GUAPPERINO	1381.83	TR200	24.03	77.22	78.31	1.09	80.27	82.72	1.96	4.41	4.34	2.54	25.84
GUAPPERINO	GUAPPERINO	1355.98	TR030	14.33	76.34	77.38	1.03	78.99	83.49	1.61	6.11	3.62	1.68	30.64
GUAPPERINO	GUAPPERINO	1355.98	TR200	24.03	76.34	77.77	1.43	78.99	83.49	1.22	5.72	2.87	1.29	30.64
GUAPPERINO	GUAPPERINO	1325.35	TR030	14.33	75.86	76.62	0.76	78.09	82.92	1.48	6.30	3.01	1.47	35.66
GUAPPERINO	GUAPPERINO	1325.35	TR200	24.03	75.86	76.80	0.94	78.09	82.92	1.30	6.12	3.51	1.65	35.66
GUAPPERINO	GUAPPERINO	1289.68	TR030	14.33	74.76	76.74	1.98	76.91	81.03	0.17	4.29	0.88	0.41	25.69
GUAPPERINO	GUAPPERINO	1289.68	TR200	24.03	74.76	77.24	2.48	76.91	81.03	-0.33	3.79	0.62	0.22	25.69
GUAPPERINO	GUAPPERINO	1263.99	TR030	14.33	74.38	76.53	2.15	75.72	76.11	-0.81	-0.42	1.81	0.51	1.00
GUAPPERINO	GUAPPERINO	1263.99	TR200	24.03	74.38	76.94	2.56	75.72	76.11	-1.22	-0.83	2.30	0.57	1.00
GUAPPERINO	GUAPPERINO	1262.99		Bridge										
GUAPPERINO	GUAPPERINO	1259.39	TR030	14.33	74.38	75.68	1.30	75.72	76.11	0.04	0.43	4.22	1.50	14.81
GUAPPERINO	GUAPPERINO	1259.39	TR200	24.03	74.38	76.16	1.78	75.72	76.11	-0.44	-0.05	4.30	1.45	14.81
GUAPPERINO	GUAPPERINO	1244.58	TR030	14.33	74.39	75.43	1.04	76.32	77.94	0.89	2.51	3.28	1.69	29.20
GUAPPERINO	GUAPPERINO	1244.58	TR200	24.03	74.39	75.52	1.13	76.32	77.94	0.80	2.42	4.44	2.11	29.20
GUAPPERINO	GUAPPERINO	1215.38	TR030	14.33	74.20	74.79	0.59	75.47	81.19	0.69	6.40	2.11	1.34	42.84
GUAPPERINO	GUAPPERINO	1215.38	TR200	24.03	74.20	74.87	0.67	75.47	81.19	0.60	6.32	2.65	1.48	42.84
GUAPPERINO	GUAPPERINO	1172.54	TR030	14.33	73.60	74.16	0.55	75.05	79.17	0.89	5.02	1.67	1.02	28.18
GUAPPERINO	GUAPPERINO	1172.54	TR200	24.03	73.60	74.28	0.67	75.05	79.17	0.78	4.90	1.94	1.02	28.18
GUAPPERINO	GUAPPERINO	1144.35	TR030	14.33	72.76	73.34	0.57	76.17	77.80	2.83	4.46	2.55	1.62	31.92
GUAPPERINO	GUAPPERINO	1144.35	TR200	24.03	72.76	73.44	0.67	76.17	77.80	2.73	4.36	2.95	1.69	31.92
GUAPPERINO	GUAPPERINO	1112.43	TR030	14.33	70.95	71.63	0.69	73.57	72.08	1.94	0.45	3.87	1.89	33.04
GUAPPERINO	GUAPPERINO	1112.43	TR200	24.03	70.95	71.79	0.84	73.57	72.08	1.79	0.30	4.15	1.86	33.04
GUAPPERINO	GUAPPERINO	1079.39	TR030	14.33	70.32	71.33	1.01	72.97	72.52	1.64	1.19	2.42	1.01	47.74
GUAPPERINO	GUAPPERINO	1079.39	TR200	24.03	70.32	71.59	1.27	72.97	72.52	1.38	0.93	2.76	1.01	47.74
GUAPPERINO	GUAPPERINO	1031.65	TR030	14.33	68.98	69.83	0.85	72.59	71.43	2.76	1.60	4.07	1.83	29.79

HEC-RAS Plan: SISTEMA GUAPPERO (Continued)

River	Reach	River Sta	Profile	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Max Chl Dpth (m)	LOB Elev (m)	ROB Elev (m)	L. Freeboard (m)	R. Freeboard (m)	Vel Chnl (m/s)	Froude # Chl	Length Chnl (m)	
GUAPPERINO	GUAPPERINO	1031.65	TR200	24.03	68.98	70.07		1.09	72.59	71.43	2.51	1.35	4.46	1.79	29.79
GUAPPERINO	GUAPPERINO	1001.86	TR030	14.33	68.55	69.74		1.18	71.63	71.29	1.89	1.55	2.35	0.89	39.65
GUAPPERINO	GUAPPERINO	1001.86	TR200	24.03	68.55	69.99		1.43	71.63	71.29	1.64	1.30	2.81	1.02	39.65
GUAPPERINO	GUAPPERINO	962.21	TR030	14.33	68.19	69.39		1.20	69.86	69.81	0.47	0.41	1.79	1.02	21.00
GUAPPERINO	GUAPPERINO	962.21	TR200	24.03	68.19	69.46		1.27	69.86	69.81	0.40	0.35	2.42	1.33	21.00
GUAPPERINO	GUAPPERINO	941.21	TR030	14.33	67.41	68.96		1.55	69.05	69.02	0.09	0.06	0.98	0.36	4.90
GUAPPERINO	GUAPPERINO	941.21	TR200	24.03	67.41	69.22		1.81	69.05	69.02	-0.17	-0.20	1.21	0.40	4.90
GUAPPERINO	GUAPPERINO	940.21													
GUAPPERINO	GUAPPERINO	936.31	TR030	14.33	67.41	68.48		1.07	69.05	69.02	0.57	0.54	1.86	0.74	21.26
GUAPPERINO	GUAPPERINO	936.31	TR200	24.03	67.41	68.93		1.52	69.05	69.02	0.12	0.09	1.72	0.62	21.26
GUAPPERINO	GUAPPERINO	914.84	TR030	14.33	66.74	68.08		1.34	68.74	69.32	0.66	1.24	2.77	1.00	23.84
GUAPPERINO	GUAPPERINO	914.84	TR200	24.03	66.74	68.45		1.71	68.74	69.32	0.29	0.87	3.03	1.00	23.84
GUAPPERINO	GUAPPERINO	891.01	TR030	14.33	66.64	67.87		1.23	68.78	69.56	0.91	1.69	2.34	1.10	57.62
GUAPPERINO	GUAPPERINO	891.01	TR200	24.03	66.64	67.93		1.30	68.78	69.56	0.85	1.62	3.40	1.57	57.62
GUAPPERINO	GUAPPERINO	833.39	TR030	14.33	65.55	66.60		1.04	68.88	71.73	2.28	5.13	3.23	1.36	28.84
GUAPPERINO	GUAPPERINO	833.39	TR200	24.03	65.55	66.99		1.44	68.88	71.73	1.89	4.74	3.01	1.09	28.84
GUAPPERINO	GUAPPERINO	804.56	TR030	14.33	65.11	66.11		1.00	67.95	77.19	1.84	11.08	2.85	1.26	18.50
GUAPPERINO	GUAPPERINO	804.56	TR200	24.03	65.11	66.26		1.15	67.95	77.19	1.69	10.93	3.62	1.55	18.50
GUAPPERINO	GUAPPERINO	786.06	TR030	14.33	64.20	65.07		0.87	67.69	78.71	2.61	13.63	4.26	1.83	40.21
GUAPPERINO	GUAPPERINO	786.06	TR200	24.03	64.20	66.14		1.94	67.69	78.71	1.54	12.56	1.76	0.53	40.21
GUAPPERINO	GUAPPERINO	745.84	TR030	14.33	63.77	65.12		1.35	67.24	72.47	2.12	7.35	2.96	1.01	36.19
GUAPPERINO	GUAPPERINO	745.84	TR200	24.03	63.77	65.53		1.76	67.24	72.47	1.71	6.94	3.28	1.01	36.19
GUAPPERINO	GUAPPERINO	709.66	TR030	14.33	63.10	64.39		1.29	66.61	75.15	2.22	10.76	3.47	1.34	28.23
GUAPPERINO	GUAPPERINO	709.66	TR200	24.03	63.10	64.66		1.56	66.61	75.15	1.95	10.49	4.08	1.43	28.23
GUAPPERINO	GUAPPERINO	681.42	TR030	14.33	62.75	63.94		1.19	65.81	72.86	1.87	8.92	3.21	1.21	40.12
GUAPPERINO	GUAPPERINO	681.42	TR200	24.03	62.75	64.25		1.50	65.81	72.86	1.56	8.61	3.70	1.23	40.12
GUAPPERINO	GUAPPERINO	641.30	TR030	14.33	62.15	63.19		1.04	65.11	71.44	1.92	8.25	3.27	1.35	45.04
GUAPPERINO	GUAPPERINO	641.30	TR200	24.03	62.15	63.42		1.27	65.11	71.44	1.69	8.02	3.87	1.46	45.04
GUAPPERINO	GUAPPERINO	596.26	TR030	14.33	61.91	62.90		0.99	64.05	66.24	1.15	3.35	1.12	0.46	27.56
GUAPPERINO	GUAPPERINO	596.26	TR200	24.03	61.91	63.20		1.29	64.05	66.24	0.85	3.05	1.22	0.43	27.56
GUAPPERINO	GUAPPERINO	568.71	TR030	14.33	61.39	62.54		1.15	65.01	65.90	2.47	3.36	2.35	1.00	20.31
GUAPPERINO	GUAPPERINO	568.71	TR200	24.03	61.39	62.87		1.48	65.01	65.90	2.14	3.03	2.40	0.85	20.31
GUAPPERINO	GUAPPERINO	548.40	TR030	14.33	60.35	61.72		1.37	64.76	65.20	3.04	3.48	3.80	1.43	27.07
GUAPPERINO	GUAPPERINO	548.40	TR200	24.03	60.35	62.83		2.48	64.76	65.20	1.93	2.37	2.05	0.58	27.07
GUAPPERINO	GUAPPERINO VALLE	514.03	TR030	25.66	59.63	61.56		1.93	62.85	64.52	1.29	2.96	3.39	1.00	13.03
GUAPPERINO	GUAPPERINO VALLE	514.03	TR200	42.60	59.63	62.39		2.76	62.85	64.52	0.46	2.13	3.13	0.78	13.03
GUAPPERINO	GUAPPERINO VALLE	501	TR030	25.66	58.00	61.67		3.67	61.83	62.07	0.16	0.40	0.95	0.17	1.00
GUAPPERINO	GUAPPERINO VALLE	501	TR200	42.60	58.00	62.67		4.67	61.83	62.07	-0.84	-0.60	1.22	0.19	1.00
GUAPPERINO	GUAPPERINO VALLE	500													
GUAPPERINO	GUAPPERINO VALLE	495.4	TR030	25.66	58.00	61.38		3.38	61.83	62.07	0.45	0.69	1.04	0.19	17.18
GUAPPERINO	GUAPPERINO VALLE	495.4	TR200	42.60	58.00	61.83		3.83	61.83	62.07	0.00	0.24	1.51	0.26	17.18
GUAPPERINO	GUAPPERINO VALLE	478.22	TR030	25.66	58.81	60.75		1.94	64.74	63.23	3.99	2.48	3.44	1.00	40.83
GUAPPERINO	GUAPPERINO VALLE	478.22	TR200	42.60	58.81	61.35		2.54	64.74	63.23	3.39	1.88	3.19	1.01	40.83
GUAPPERINO	GUAPPERINO VALLE	437.38	TR030	25.66	58.27	59.57		1.29	64.86	63.06	5.29	3.49	4.55	1.65	22.14
GUAPPERINO	GUAPPERINO VALLE	437.38	TR200	42.60	58.27	59.96		1.68	64.86	63.06	4.91	3.10	4.88	1.56	22.14
GUAPPERINO	GUAPPERINO VALLE	415.24	TR030	25.66	57.48	59.25		1.77	64.27	62.78	5.01	3.52	3.98	1.26	33.84
GUAPPERINO	GUAPPERINO VALLE	415.24	TR200	42.60	57.48	59.77		2.28	64.27	62.78	4.50	3.01	4.20	1.21	33.84
GUAPPERINO	GUAPPERINO VALLE	381.40	TR030	25.66	57.02	59.66		2.64	62.54	62.06	2.88	2.40	1.16	0.31	17.79
GUAPPERINO	GUAPPERINO VALLE	381.40	TR200	42.60	57.02	60.26		3.24	62.54	62.06	2.28	1.80	1.33	0.32	17.79
GUAPPERINO	GUAPPERINO VALLE	363.62	TR030	25.66	57.05	59.42		2.37	62.01	61.78	2.59	2.35	2.26	0.66	16.68
GUAPPERINO	GUAPPERINO VALLE	363.62	TR200	42.60	57.05	59.97		2.92	62.01	61.78	2.04	1.81	2.53	0.64	16.68
GUAPPERINO	GUAPPERINO VALLE	346.94	TR030	25.66	56.17	59.49		3.32	61.53	63.31	2.04	3.83	1.53	0.34	11.85
GUAPPERINO	GUAPPERINO VALLE	346.94	TR200	42.60	56.17	60.02		3.85	61.53	63.31	1.51	3.30	1.99	0.43	11.85
GUAPPERINO	GUAPPERINO VALLE	335.09	TR030	25.66	56.10	59.49		3.39	62.98	62.53	3.49	3.04	1.39	0.32	16.39
GUAPPERINO	GUAPPERINO VALLE	335.09	TR200	42.60	56.10	60.03		3.93	62.98	62.53	2.95	2.50	1.75	0.39	16.39
GUAPPERINO	GUAPPERINO VALLE	318.70	TR030	25.66	57.02	58.99		1.97	63.36	62.38	4.37	3.39	3.18	1.01	22.98
GUAPPERINO	GUAPPERINO VALLE	318.70	TR200	42.60	57.02	59.44		2.42	63.36	62.38	3.92	2.94	3.56	1.01	22.98
GUAPPERINO	GUAPPERINO VALLE	295.73	TR030	25.66	55.60	56.72		1.12	61.53	62.60	4.81	5.88	6.47	2.43	11.48
GUAPPERINO	GUAPPERINO VALLE	295.73	TR200	42.60	55.60	57.10		1.50	61.53	62.60	4.43	5.50	6.83	2.23	11.48
GUAPPERINO	GUAPPERINO VALLE	284.25	TR030	25.66	55.31	56.65		1.34	61.61	60.67	4.96	4.02	5.27	1.87	14.07
GUAPPERINO	GUAPPERINO VALLE	284.25	TR200	42.60	55.31	56.99		1.68	61.61	60.67	4.62	3.68	5.92	1.95	14.07
GUAPPERINO	GUAPPERINO VALLE	270.17	TR030	25.66	55.26	57.10		1.84	61.43	60.58	4.33	3.48	3.00	0.92	17.57
GUAPPERINO	GUAPPERINO VALLE	270.17	TR200	42.60	55.26	57.29		2.03	61.43	60.58	4.13	3.28	4.21	1.23	17.57
GUAPPERINO	GUAPPERINO VALLE	252.61	TR030	25.66	54.99	57.16		2.18	61.39	59.84	4.23	2.68	2.16	0.59	12.09
GUAPPERINO	GUAPPERINO VALLE	252.61	TR200	42.60	54.99	57.73		2.75	61.39	59.84	3.66	2.11	2.48	0.61	12.09
GUAPPERINO	GUAPPERINO VALLE	240.51	TR030	25.66	54.67	57.15		2.48	61.08	59.82	3.93	2.67	2.01	0.48	6.35
GUAPPERINO	GUAPPERINO VALLE	240.51	TR200	42.60	54.67	57.67		3.00	61.08	59.82	3.41	2.15	2.55	0.58	6.35
GUAPPERINO	GUAPPERINO VALLE	234.16	TR030	25.66	54.94	56.75		1.81	60.52	59.70	3.77	2.95	3.28	1.01	18.58
GUAPPERINO	GUAPPERINO VALLE	234.16	TR200	42.60	54.94	57.51		2.58	60.52	59.70	3.00	2.19	2.97	0.80	18.58
GUAPPERINO	GUAPPERINO VALLE	215.58	TR030	25.66	54.29	55.44		1.16	60.38	59.64	4.93	4.20	5.31	1.84	22.50
GUAPPERINO	GUAPPERINO VALLE	215.58	TR200	42.60	54.29	57.65		3.36	60.38	59.64	2.73	2.00	1.92	0.42	22.50

HEC-RAS Plan: SISTEMA GUAPPERO (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Max Chl Dpth (m)	LOB Elev (m)	ROB Elev (m)	L. Freeboard (m)	R. Freeboard (m)	Vel Chnl (m/s)	Froude # Chl	Length Chnl (m)
GUAPPERINO	GUAPPERINO VALLE	193.08	TR030	25.66	53.94	55.85	1.91	60.33	59.33	4.48	3.49	2.62	0.75	0.57
GUAPPERINO	GUAPPERINO VALLE	193.08	TR200	42.60	53.94	57.67	3.73	60.33	59.33	2.66	1.66	1.50	0.32	0.57
GUAPPERINO	GUAPPERINO VALLE	192.51	TR030	25.66	53.75	56.00	2.25	60.54	58.42	4.54	2.42	1.63	0.47	23.04
GUAPPERINO	GUAPPERINO VALLE	192.51	TR200	42.60	53.75	57.71	3.96	60.54	58.42	2.83	0.71	1.00	0.21	23.04
GUAPPERINO	GUAPPERINO VALLE	169.47	TR030	25.66	53.61	55.51	1.90	60.85	58.35	5.34	2.84	3.15	0.88	10.58
GUAPPERINO	GUAPPERINO VALLE	169.47	TR200	42.60	53.61	57.62	4.01	60.85	58.35	3.23	0.73	1.55	0.45	10.58
GUAPPERINO	GUAPPERINO VALLE	158.89	TR030	25.66	53.42	55.60	2.18	60.46	57.94	4.86	2.34	2.39	0.65	13.88
GUAPPERINO	GUAPPERINO VALLE	158.89	TR200	42.60	53.42	57.65	4.23	60.46	57.94	2.81	0.29	1.09	0.33	13.88
GUAPPERINO	GUAPPERINO VALLE	145.01	TR030	25.66	52.91	55.75	2.84	58.86	57.55	3.11	1.79	0.97	0.24	10.90
GUAPPERINO	GUAPPERINO VALLE	145.01	TR200	42.60	52.91	57.68	4.76	58.86	57.55	1.18	-0.13	0.57	0.13	10.90
GUAPPERINO	GUAPPERINO VALLE	134.11	TR030	25.66	53.14	55.46	2.33	58.45	57.43	2.99	1.96	2.41	0.70	12.99
GUAPPERINO	GUAPPERINO VALLE	134.11	TR200	42.60	53.14	57.63	4.50	58.45	57.43	0.82	-0.21	1.01	0.25	12.99
GUAPPERINO	GUAPPERINO VALLE	121.12	TR030	25.66	54.03	55.28	1.25	58.38	57.38	3.10	2.10	2.75	1.00	5.48
GUAPPERINO	GUAPPERINO VALLE	121.12	TR200	42.60	54.03	57.65	3.62	58.38	57.38	0.73	-0.27	0.68	0.15	5.48
GUAPPERINO	GUAPPERINO VALLE	115.63	TR030	25.66	53.05	55.47	2.42	58.25	57.17	2.78	1.70	0.84	0.24	18.60
GUAPPERINO	GUAPPERINO VALLE	115.63	TR200	42.60	53.05	57.66	4.61	58.25	57.17	0.59	-0.49	0.43	0.09	18.60
GUAPPERINO	GUAPPERINO VALLE	97.04	TR030	25.66	52.18	55.48	3.30	58.54	57.15	3.06	1.67	0.59	0.15	20.56
GUAPPERINO	GUAPPERINO VALLE	97.04	TR200	42.60	52.18	57.66	5.48	58.54	57.15	0.88	-0.51	0.36	0.07	20.56
GUAPPERINO	GUAPPERINO VALLE	76.47	TR030	25.66	51.95	55.43	3.47	57.99	56.33	2.56	0.91	1.08	0.24	10.11
GUAPPERINO	GUAPPERINO VALLE	76.47	TR200	42.60	51.95	57.65	5.69	57.99	56.33	0.34	-1.31	0.62	0.12	10.11
GUAPPERINO	GUAPPERINO VALLE	66.36	TR030	25.66	51.61	55.43	3.83	57.28	56.38	1.85	0.95	0.95	0.20	10.24
GUAPPERINO	GUAPPERINO VALLE	66.36	TR200	42.60	51.61	57.65	6.04	57.28	56.38	-0.37	-1.26	0.58	0.13	10.24
GUAPPERINO	GUAPPERINO VALLE	56.12	TR030	25.66	51.44	55.43	4.00	57.18	56.50	1.75	1.07	0.85	0.18	14.07
GUAPPERINO	GUAPPERINO VALLE	56.12	TR200	42.60	51.44	57.65	6.21	57.18	56.50	-0.47	-1.15	0.50	0.11	14.07
GUAPPERINO	GUAPPERINO VALLE	42.05	TR030	25.66	50.87	55.45	4.58	56.53	56.02	1.08	0.57	0.35	0.07	12.90
GUAPPERINO	GUAPPERINO VALLE	42.05	TR200	42.60	50.87	57.65	6.78	56.53	56.02	-1.12	-1.63	0.25	0.04	12.90
GUAPPERINO	GUAPPERINO VALLE	29.15	TR030	25.66	50.63	55.45	4.82	56.75	55.69	1.30	0.24	0.38	0.07	5.65
GUAPPERINO	GUAPPERINO VALLE	29.15	TR200	42.60	50.63	57.65	7.02	56.75	55.69	-0.90	-1.96	0.30	0.05	5.65
GUAPPERINO	GUAPPERINO VALLE	23.50	TR030	25.66	50.46	55.45	4.99	56.38	54.81	0.93	-0.64	0.34	0.06	10.74
GUAPPERINO	GUAPPERINO VALLE	23.50	TR200	42.60	50.46	57.65	7.19	56.38	54.81	-1.27	-2.84	0.29	0.04	10.74
GUAPPERINO	GUAPPERINO VALLE	12.76	TR030	25.66	50.18	55.45	5.27	54.97	54.65	-0.48	-0.80	0.30	0.05	12.67
GUAPPERINO	GUAPPERINO VALLE	12.76	TR200	42.60	50.18	57.65	7.47	54.97	54.65	-2.68	-3.00	0.27	0.04	12.67
GUAPPERINO	GUAPPERINO VALLE	0.10	TR030	25.66	49.86	55.45	5.59	55.33	55.54	-0.12	0.09	0.36	0.08	34.50
GUAPPERINO	GUAPPERINO VALLE	0.10	TR200	42.60	49.86	57.65	7.79	55.33	55.54	-2.33	-2.11	0.25	0.04	34.50
GUAPPERINO	GUAPPERINO VALLE	0.07	TR030	25.66	49.91	55.42	5.51	54.21	53.71	-1.21	-1.71	0.80	0.12	84.00
GUAPPERINO	GUAPPERINO VALLE	0.07	TR200	42.60	49.91	57.62	7.71	54.21	53.71	-3.41	-3.91	0.83	0.10	84.00
GUAPPERINO	GUAPPERINO VALLE	0.03	TR030	25.66	49.36	55.41	6.05	53.66	53.16	-1.75	-2.25	0.70	0.10	26.70
GUAPPERINO	GUAPPERINO VALLE	0.03	TR200	42.60	49.36	57.61	8.25	53.66	53.16	-3.95	-4.45	0.77	0.09	26.70

MODELLI IDRAULICI BIDIMENSIONALI

Si riportano gli output forniti dal codice di calcolo Hec-Ras 5.0.6 relativi alle esondazioni. Si allegano:

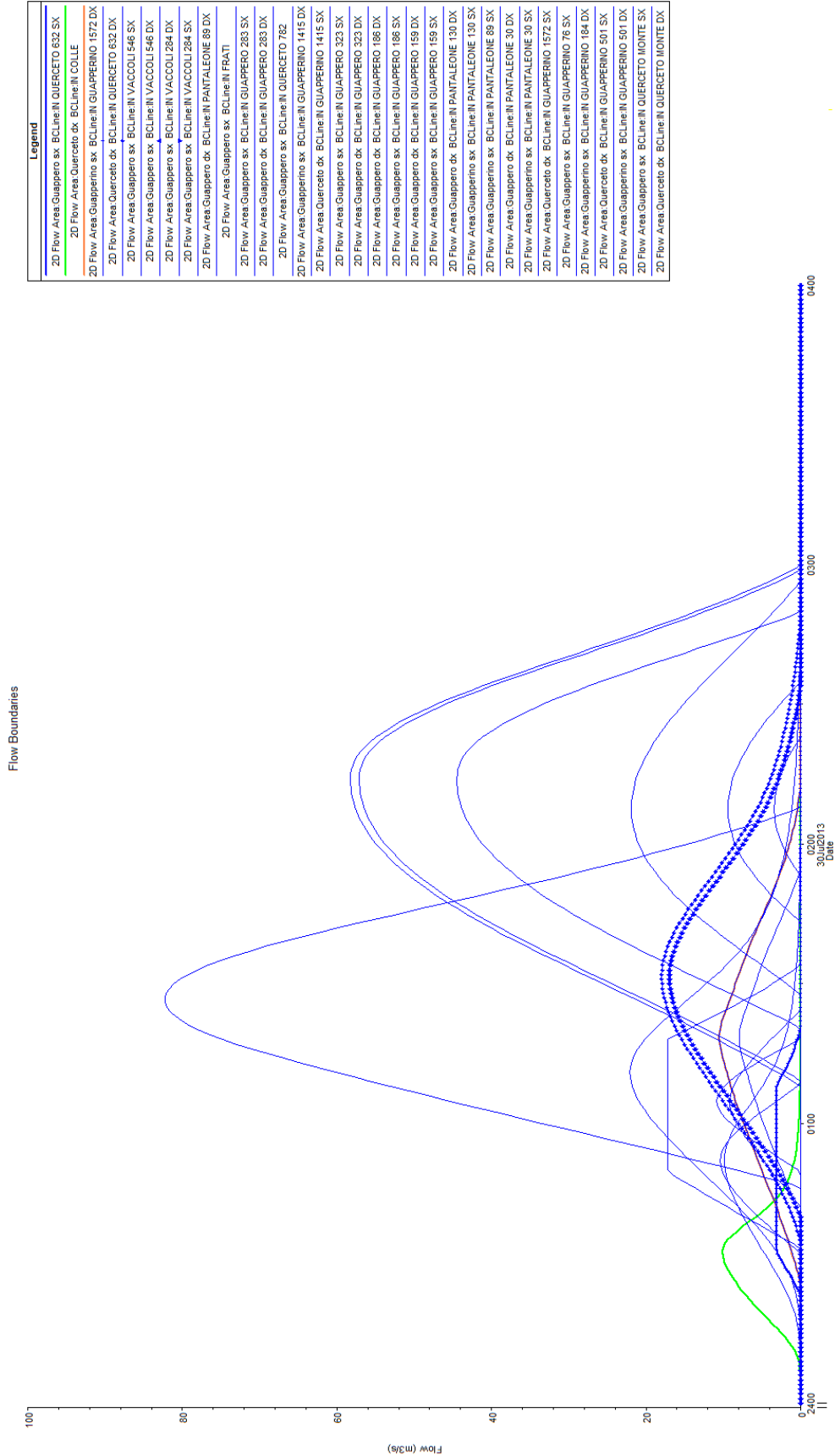
- Gli idrogrammi di ingresso nel modello;
- La planimetria dello schema di modello;
- Alcune sezioni indicative per la dinamica di esondazione;

Si fa presente che i risultati in termini di massimo battente idraulico e di massima velocità del flusso di corrente sono riportati negli appositi elaborati grafici (QG 12, QG 12a, QG 13 e QG 13a).

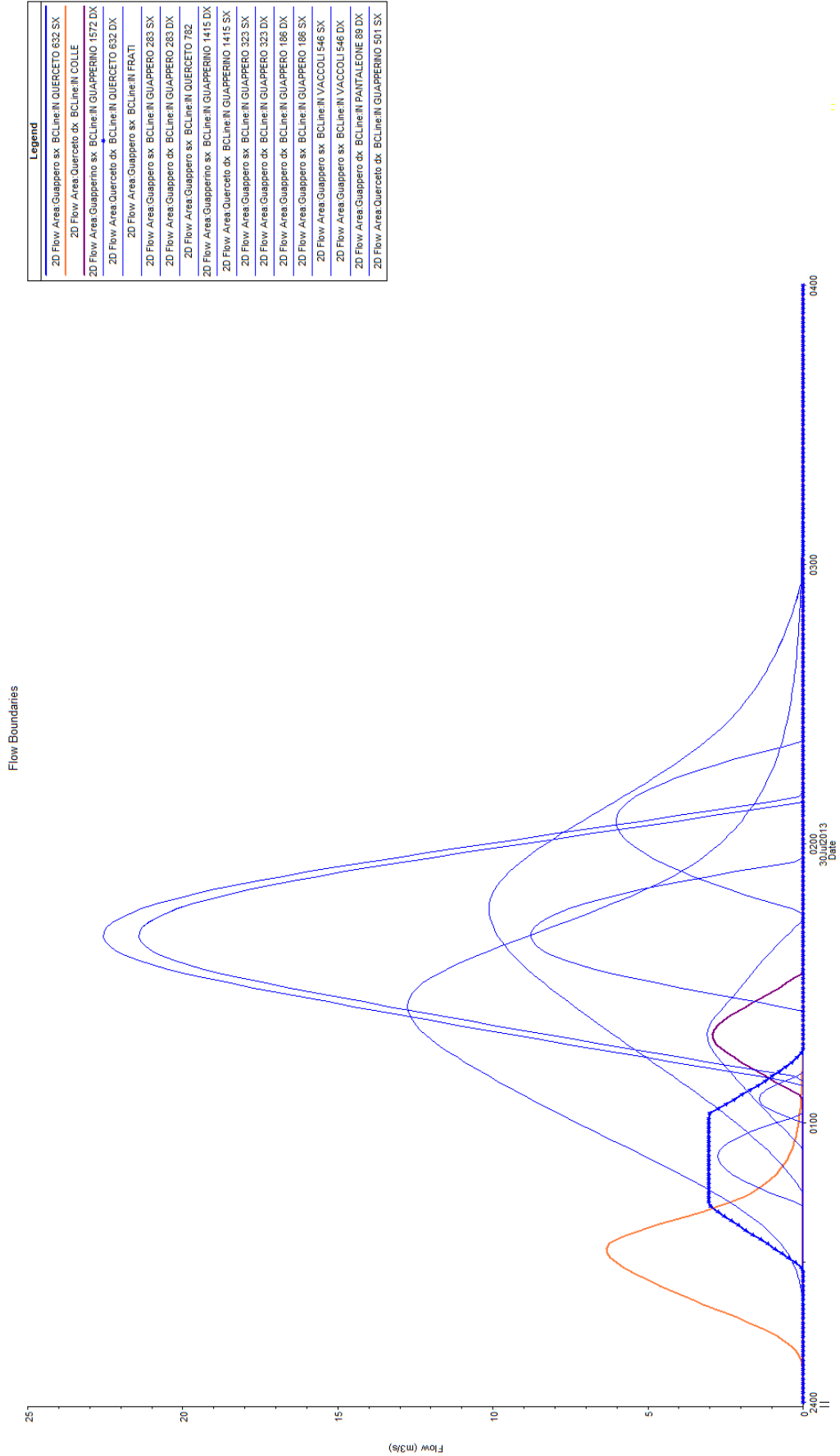
I fenomeni del presente allegato sono quelli indicati come quelli di massima portata all'interno della relazione idraulica (quelli maggiormente critici). Gli output dei fenomeni di massimo volume sono comunque inclusi all'interno della copia digitale consegnata unitamente al presente elaborato.

IDROGRAMMI IN ENTRATA NEL MODELLO BIDIMENSIONALE

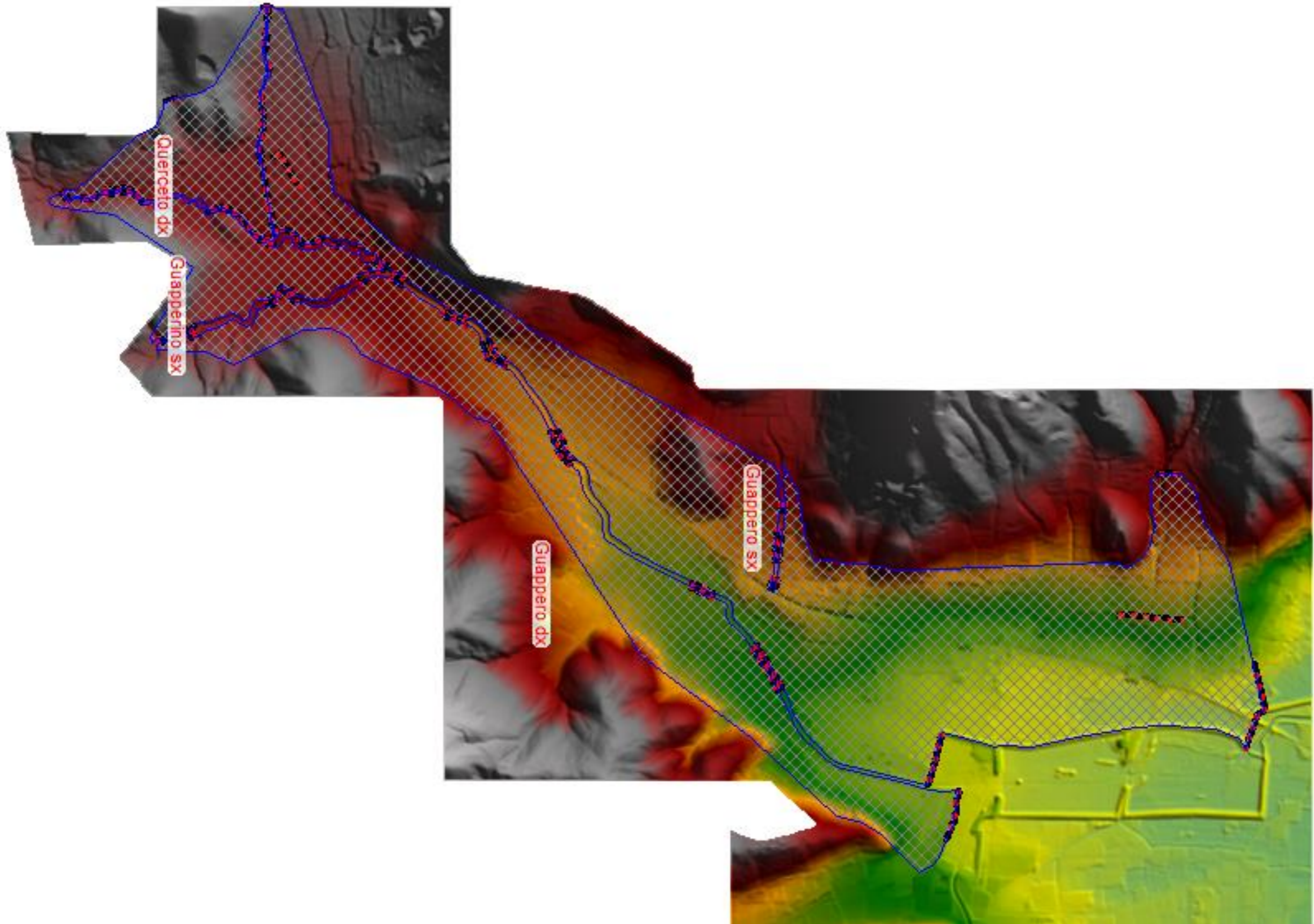
Tempi di ritorno 200 anni



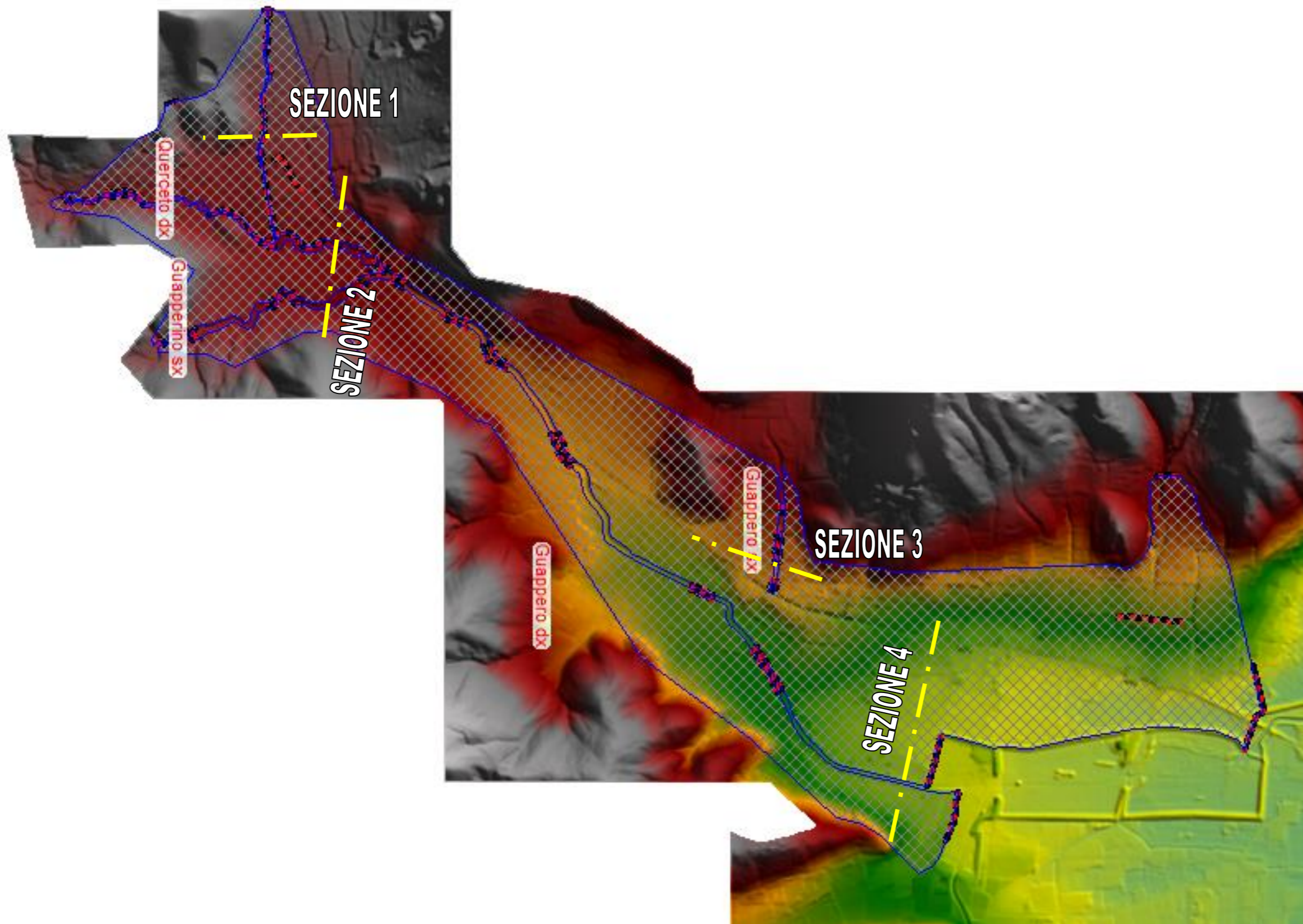
Tempo di ritorno 30 anni



SCHEMA DEL MODELLO DI CALCOLO



PLANIMETRIA CON INDICAZIONE DELLE SEZIONI DI CONTROLLO



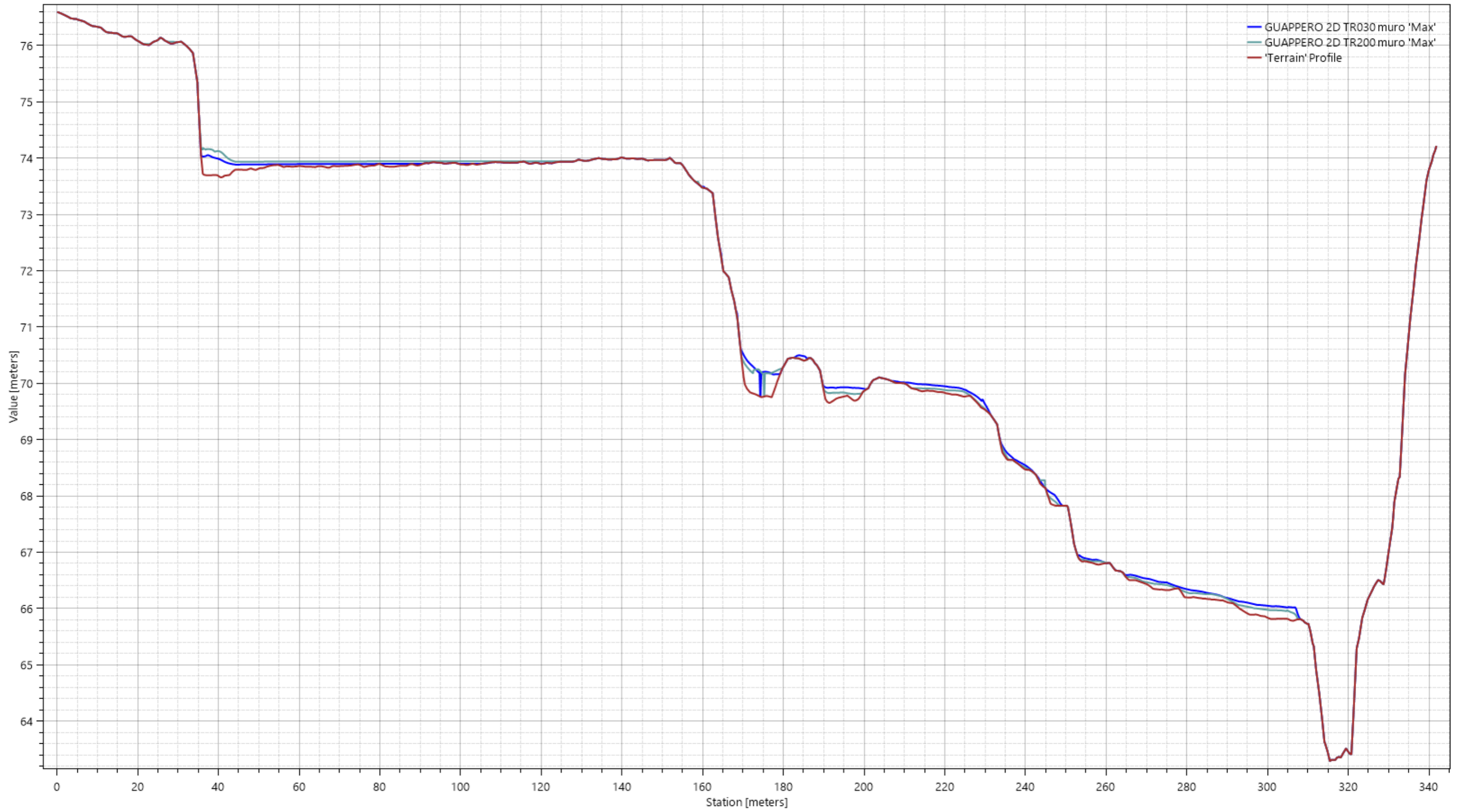
SEZIONE 1

Water Surface Elevation on 'sez 1'



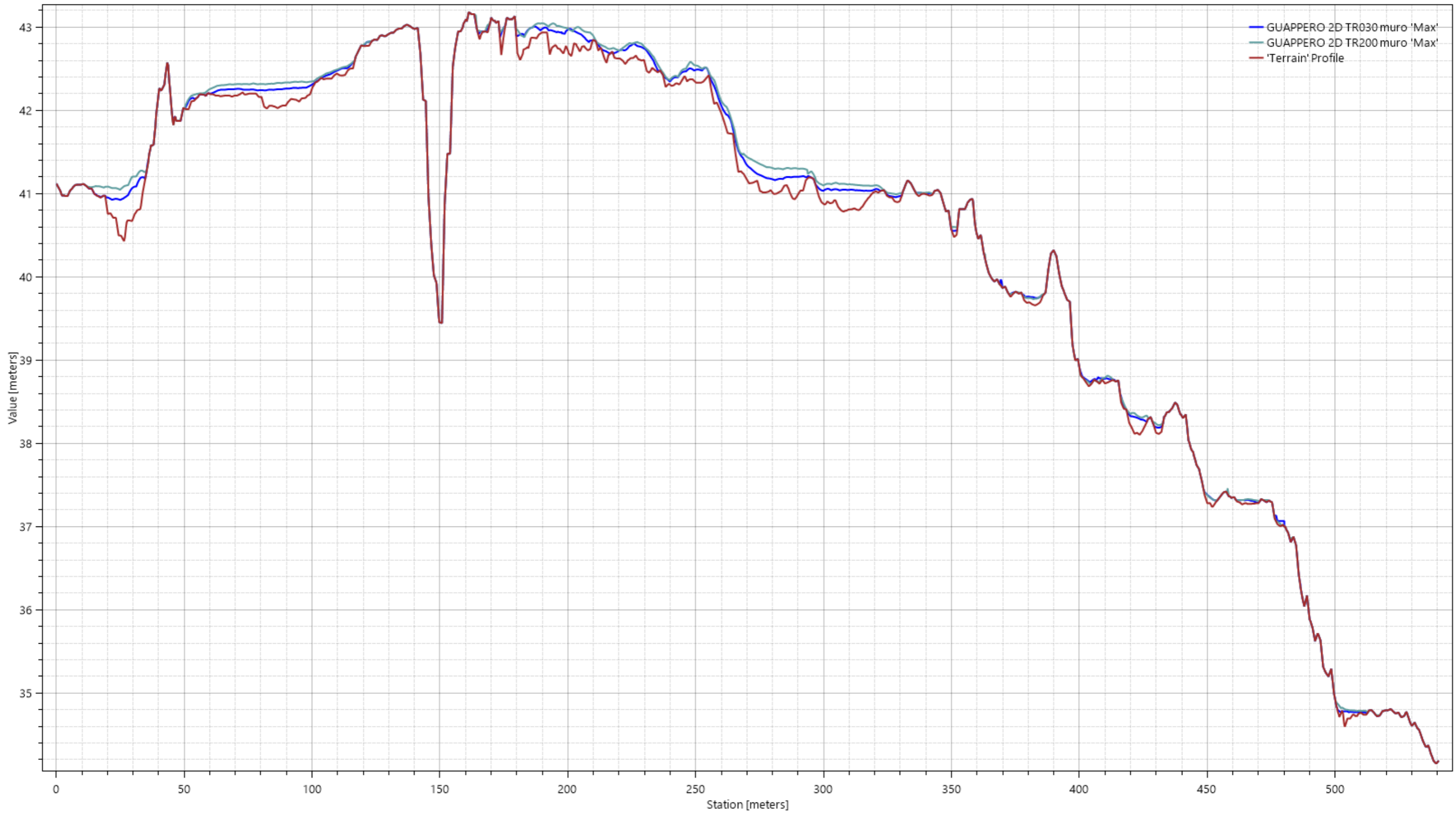
SEZIONE 2

Water Surface Elevation on 'sez 2'



SEZIONE 3

Water Surface Elevation on 'sez 3'



SEZIONE 4

Water Surface Elevation on 'sez 4'

