
Comune di S. Donato Milanese

VALUTAZIONE DELLE CONDIZIONI DEL RISCHIO IDRAULICO DEL FIUME LAMBRO IN COMUNE DI SAN DONATO MILANESE

*Studio di compatibilità idraulica delle previsioni
del Piano di Governo del Territorio per la
perimetrazione e valutazione delle condizioni di
rischio delle aree soggette ad esondazione del
fiume Lambro.*

D.G.R.IX/2616/2011, All.4 e D.G.R.X/6738/2017

**Dirigente Area Gestione Territorio, Urbanistica e
Opere Pubbliche: Arch. Giampaolo Porta**

**Responsabile Servizio Urbanistica ed Edilizia:
Arch. Angelo Gualandi**

ALLEGATO 1: RISULTATI DELLA SIMULAZIONE IDRAULICA

R1. Aprile 2021

**STANTEC S.p.A.
Centro Direzionale Milano 2
Palazzo Canova
20090 Segrate (Mi)**

**Dott. Ing. Roberto Keffer
Ordine degli Ingegneri della
Provincia di Milano n° 1**

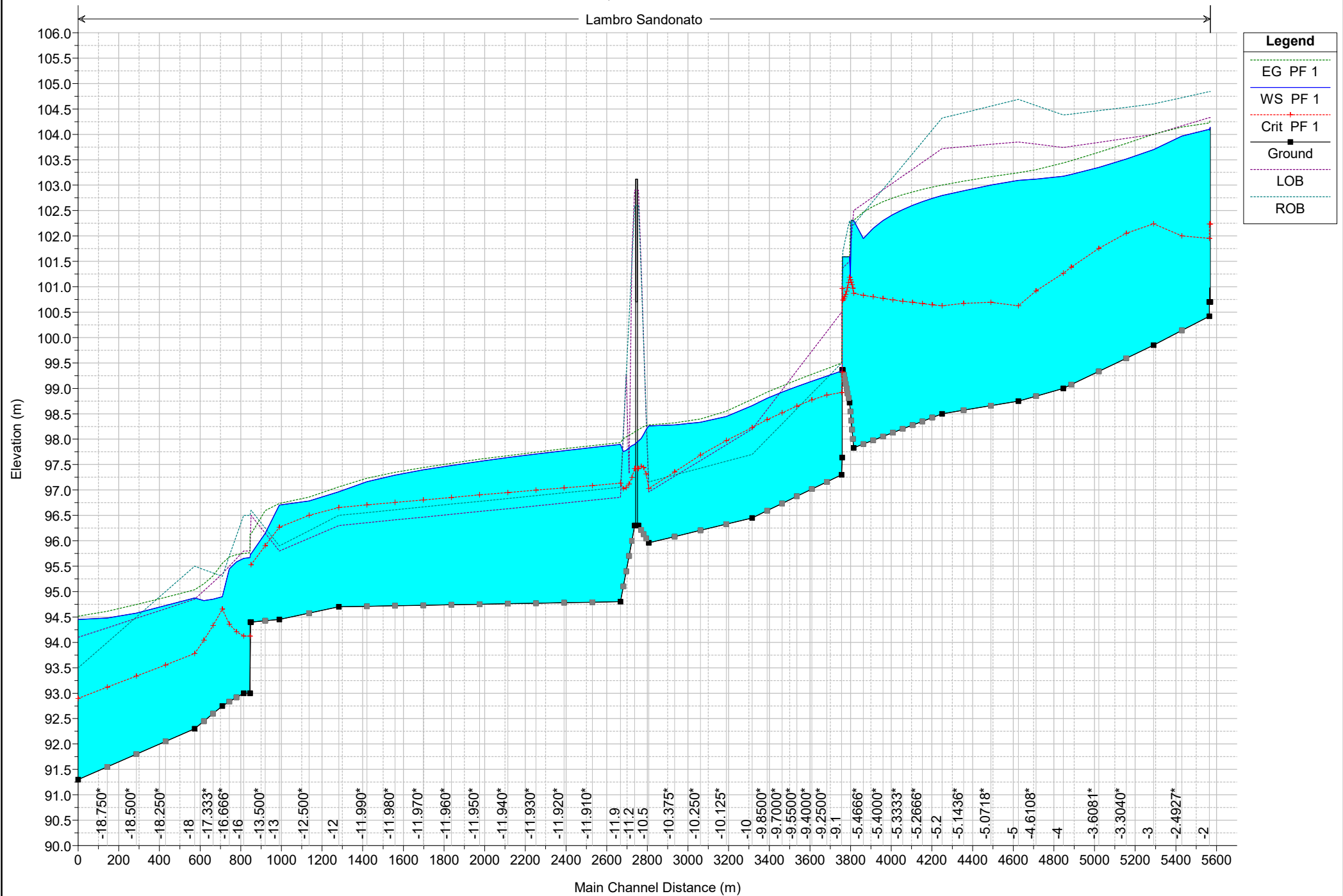


STATO DI FATTO

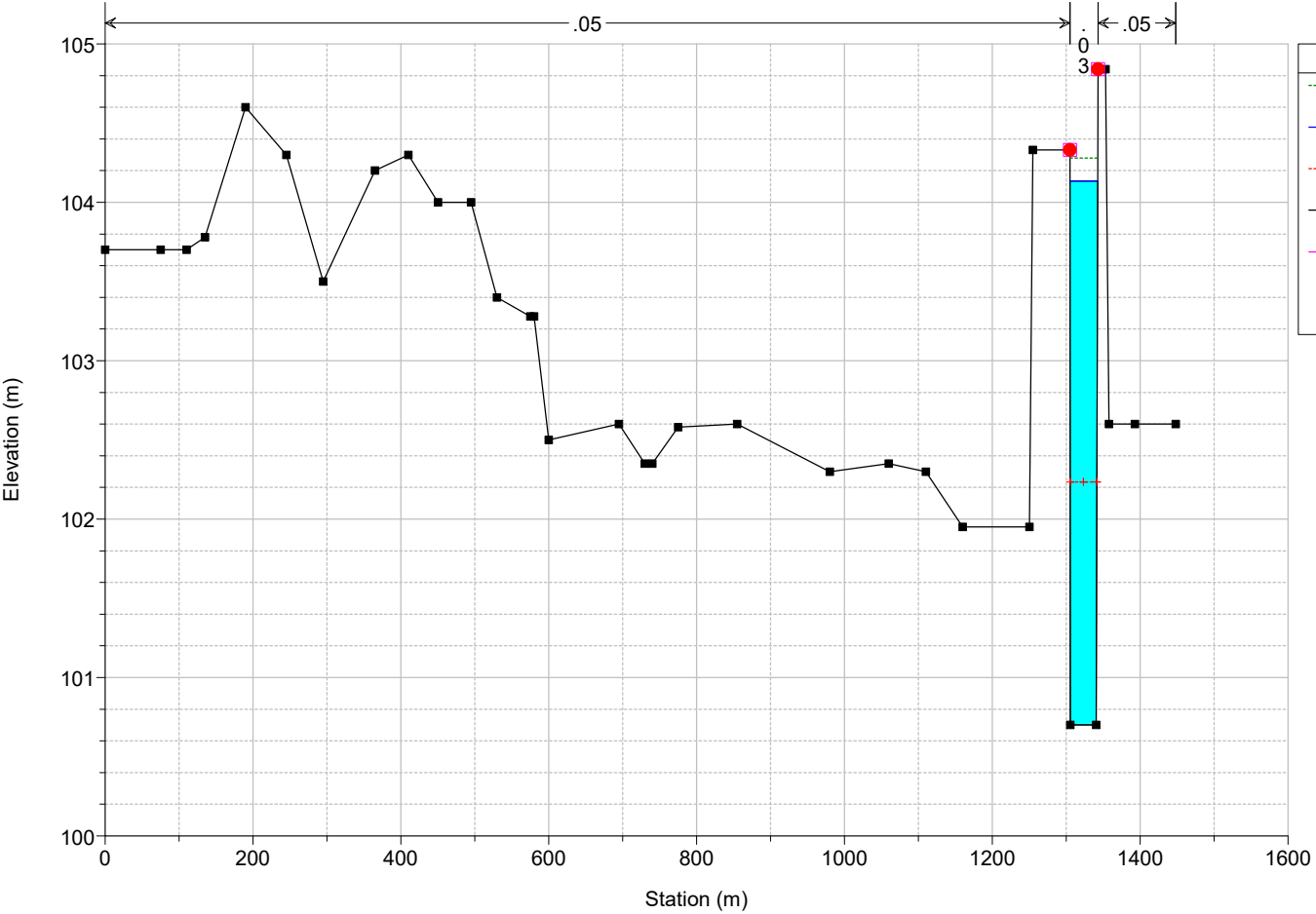
$$Q = 210 \text{ m}^3/\text{s}$$

**Coefficiente di stramazzo nella traversa di Bolgiano pari a
1.83**

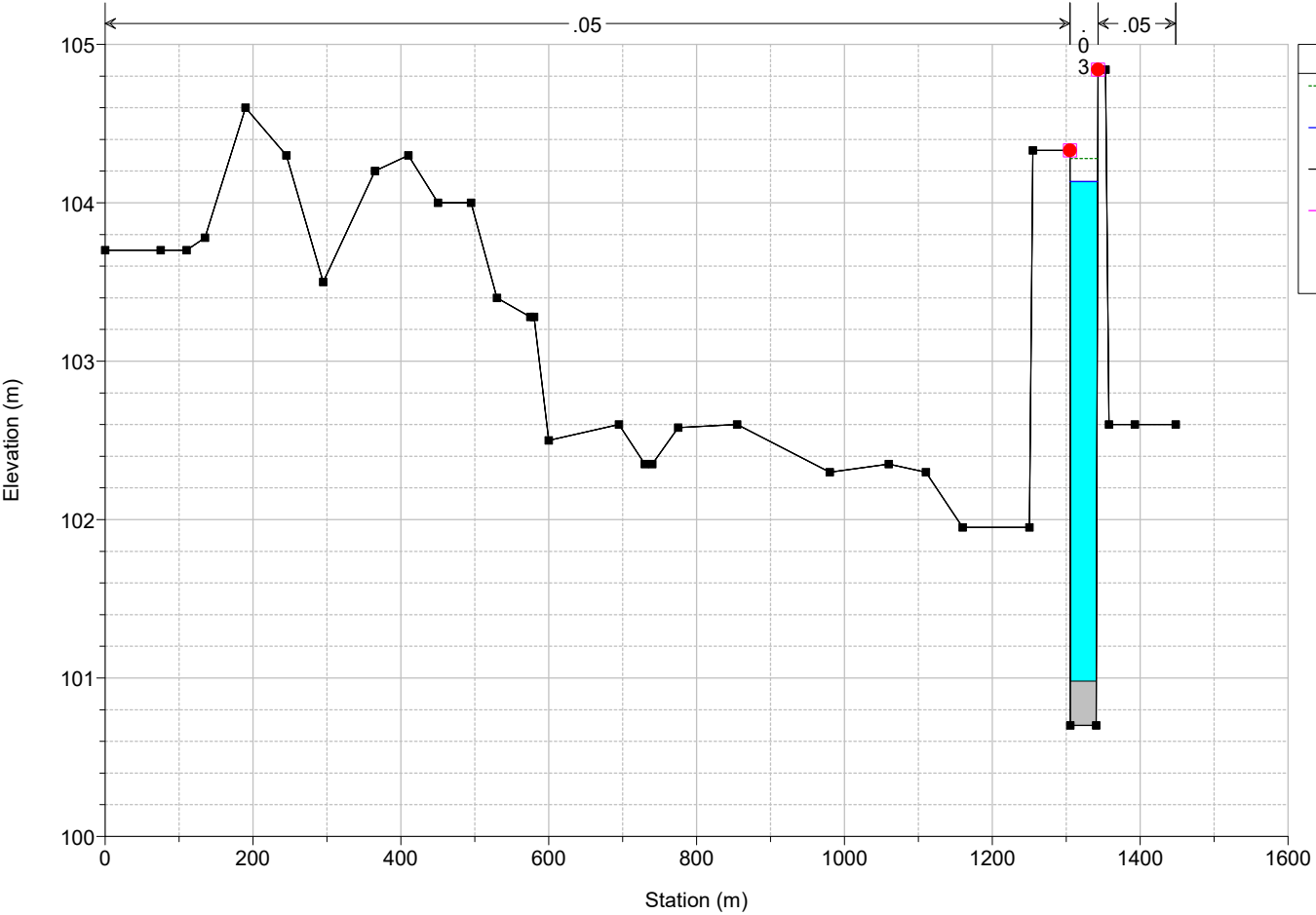
Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



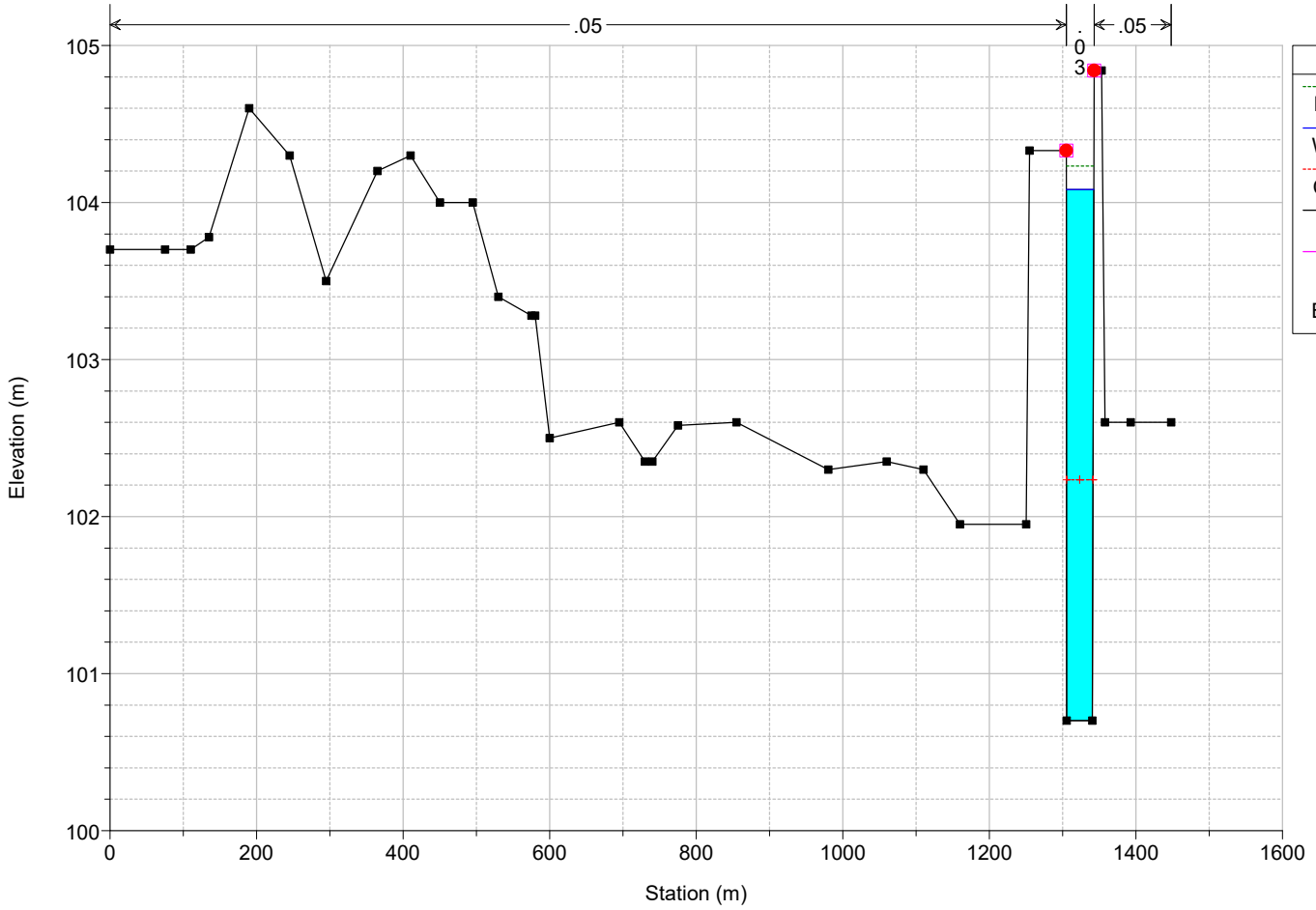
River = Lambro Reach = Sandonato RS = -1



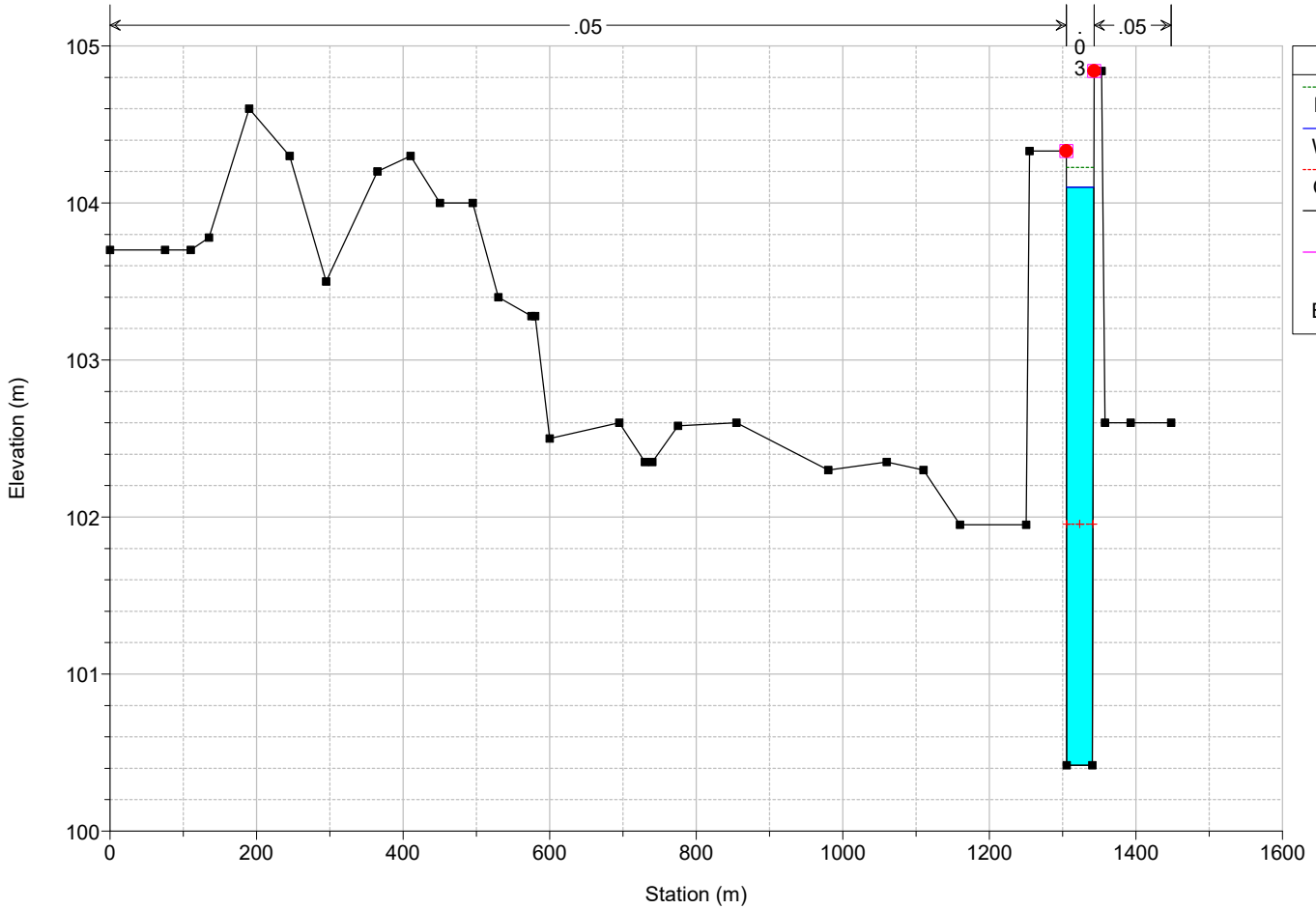
River = Lambro Reach = Sandonato RS = -1.5 IS Traversa di Gabazzo



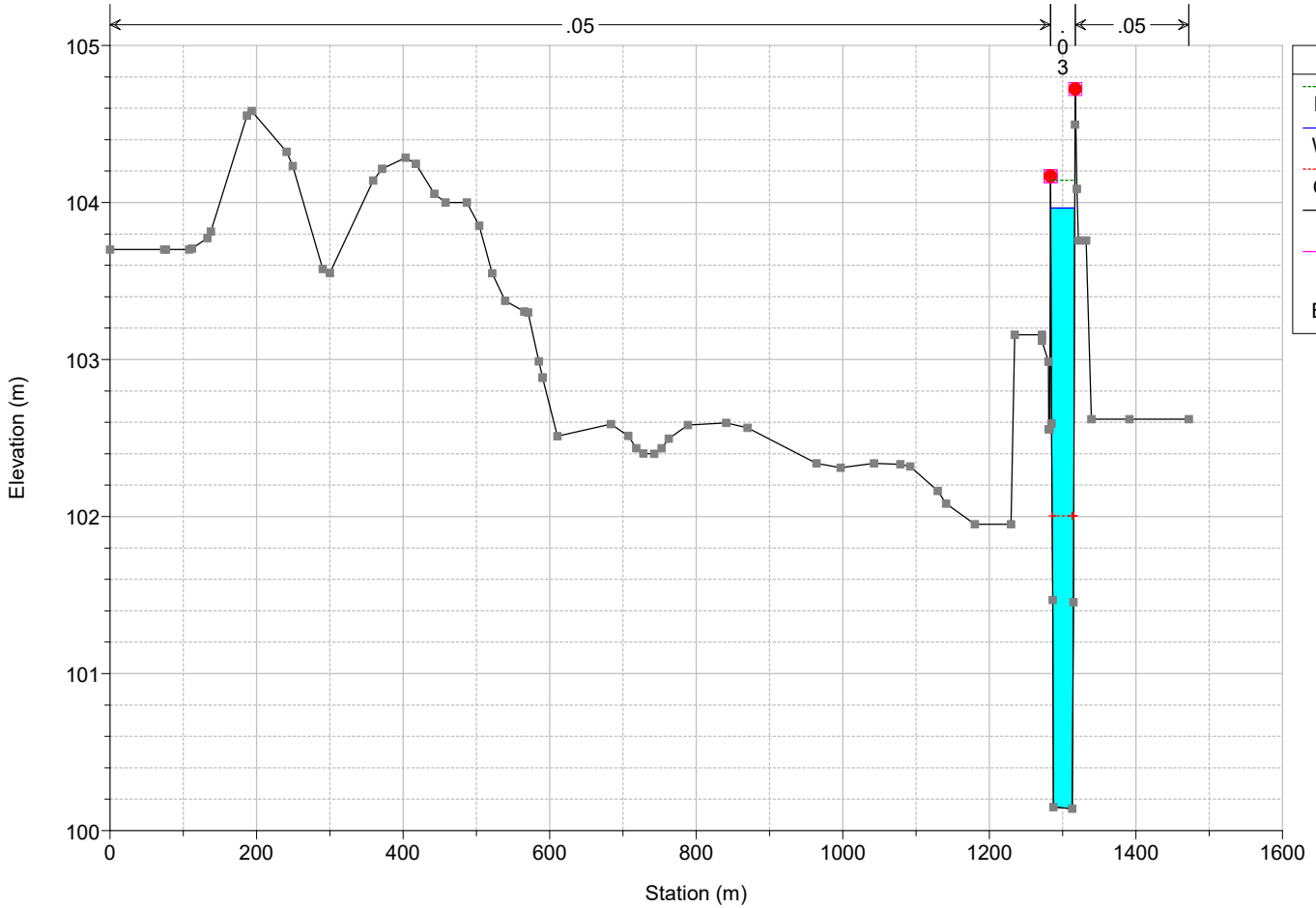
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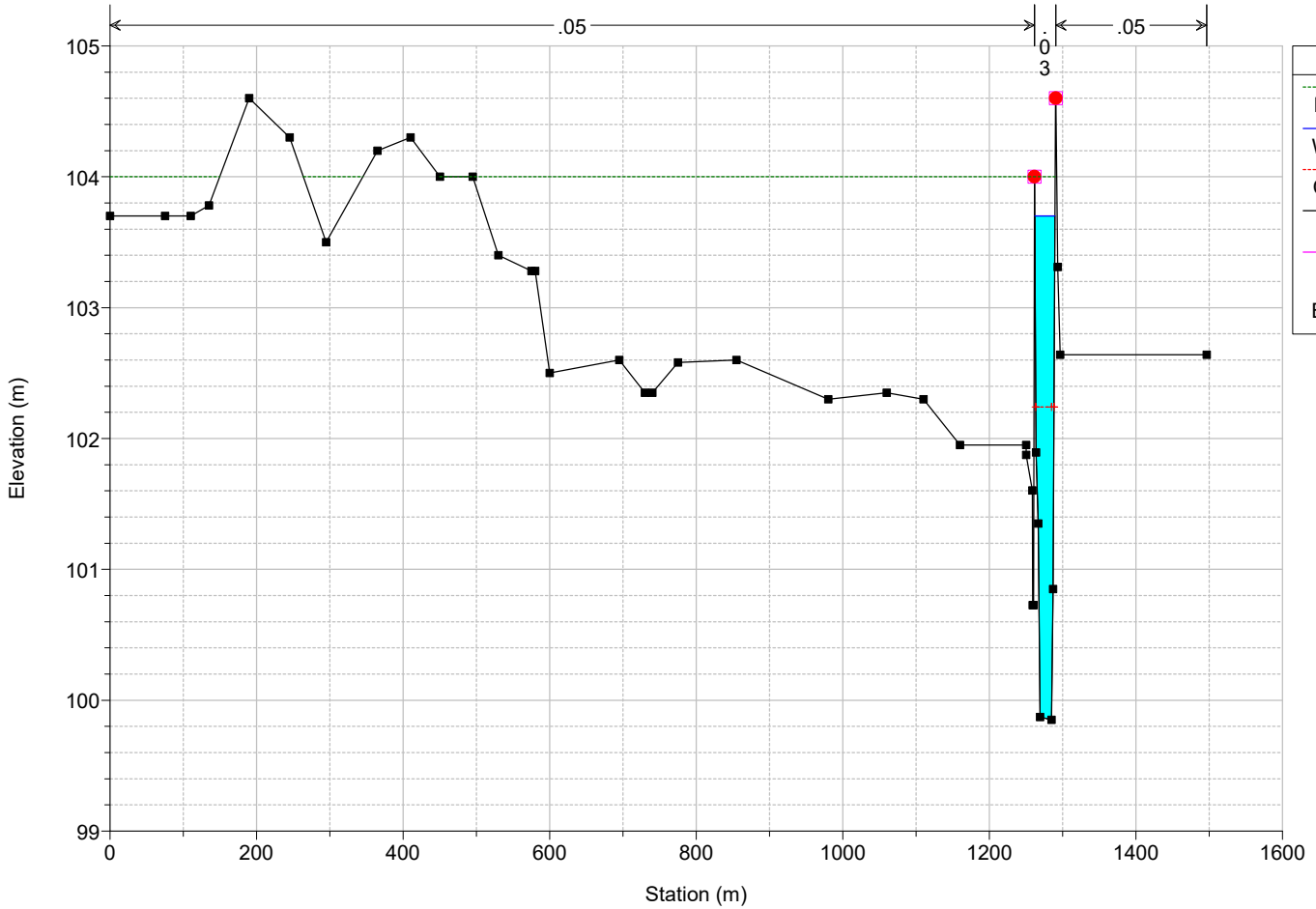
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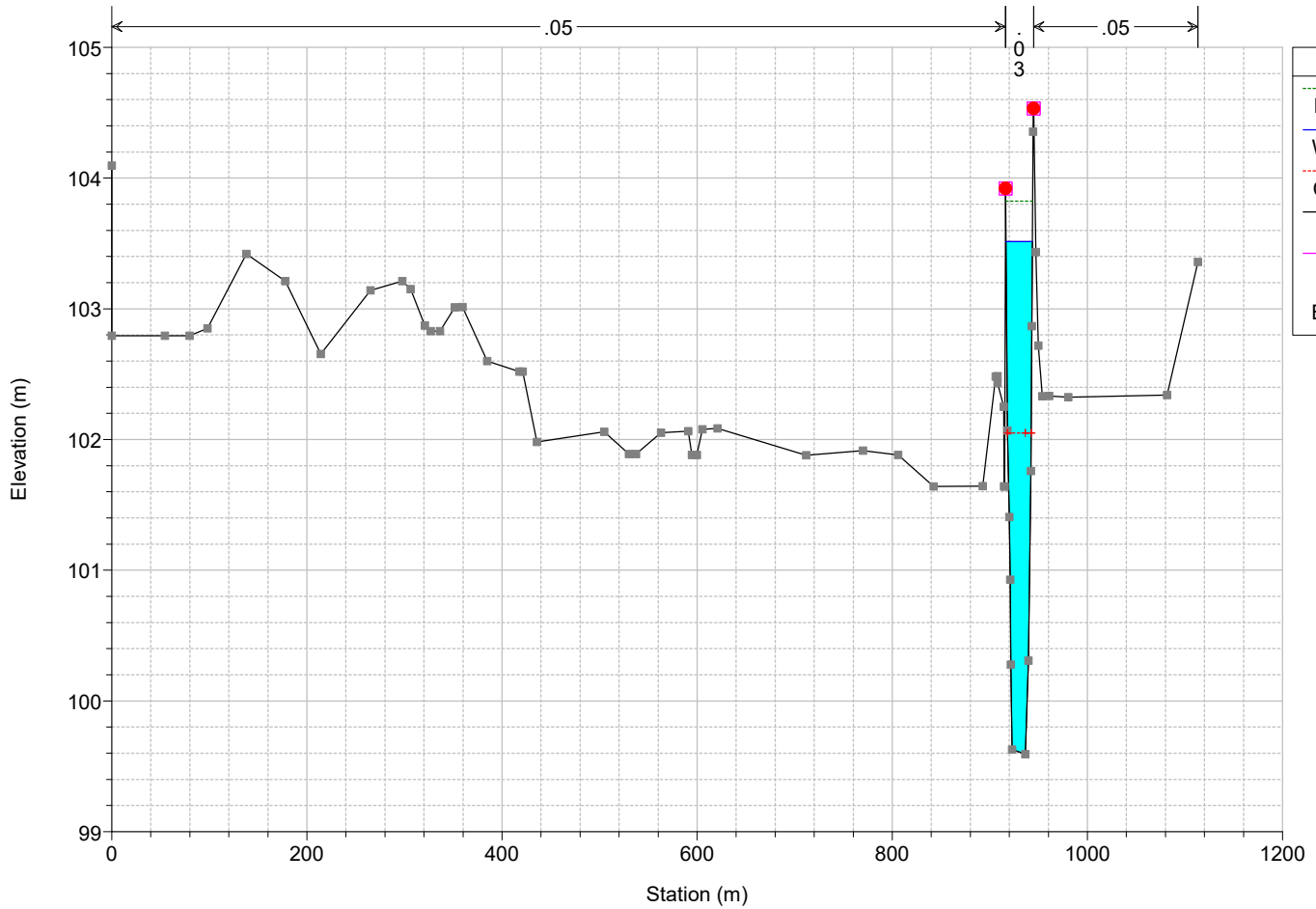
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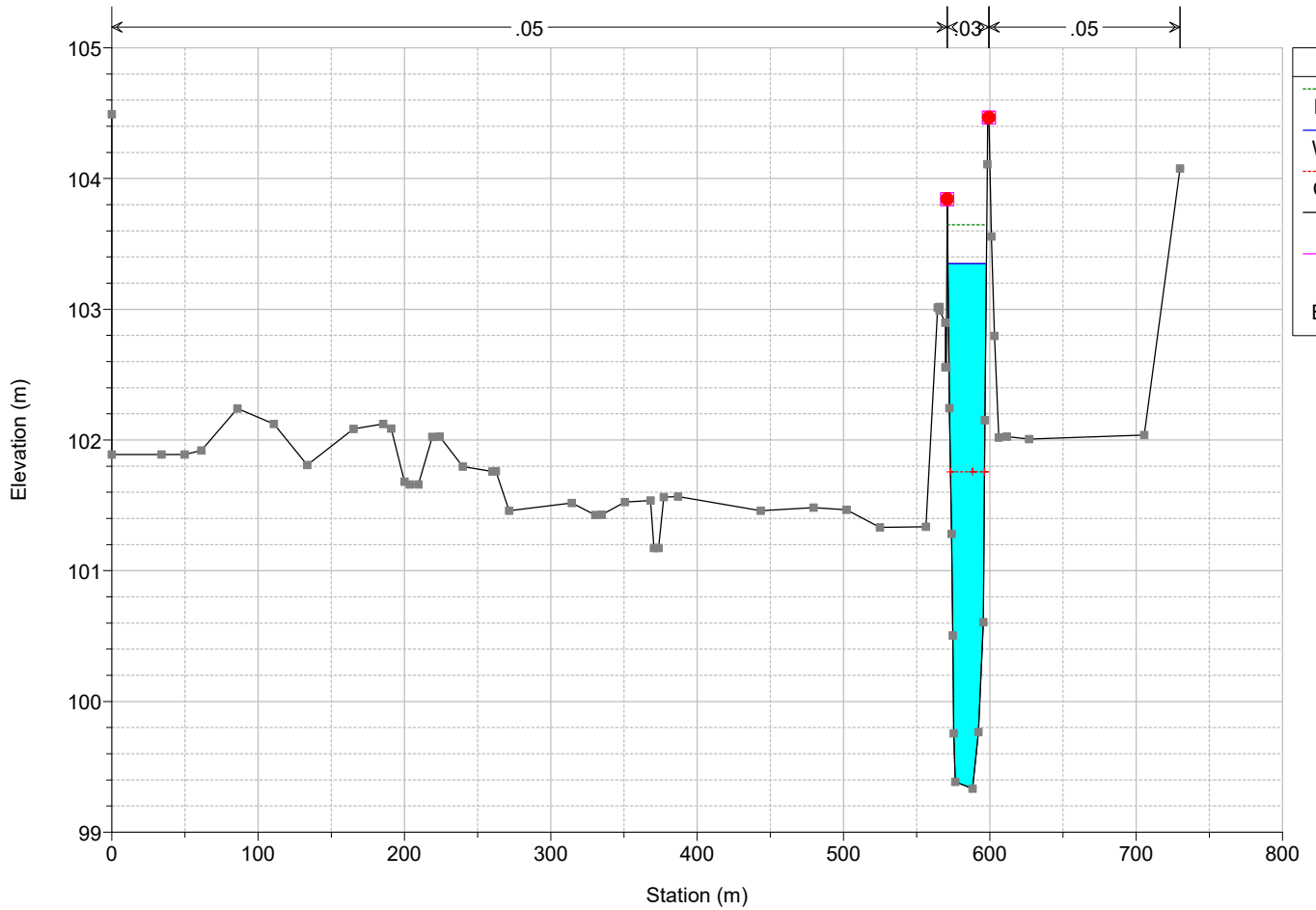
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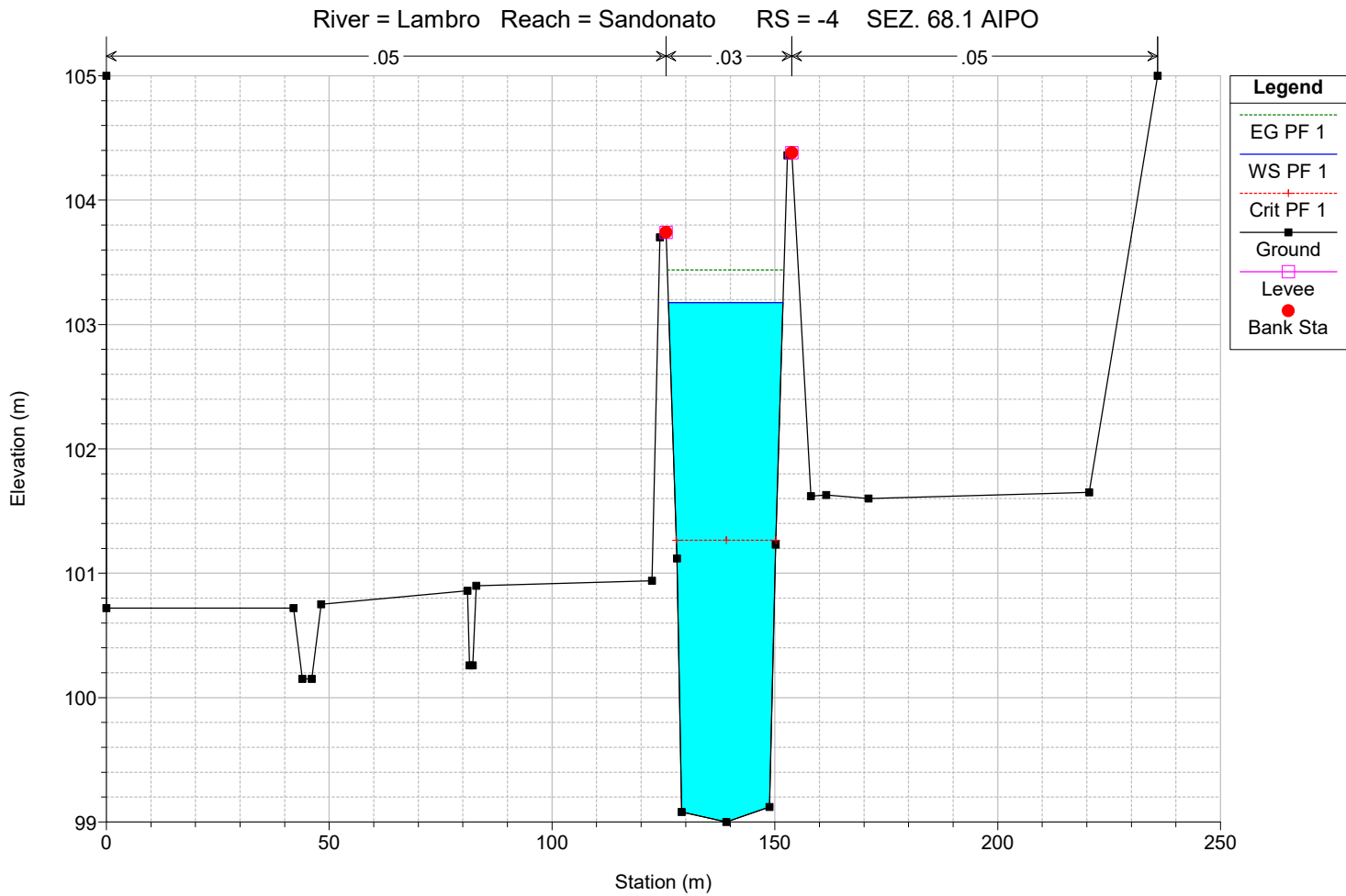
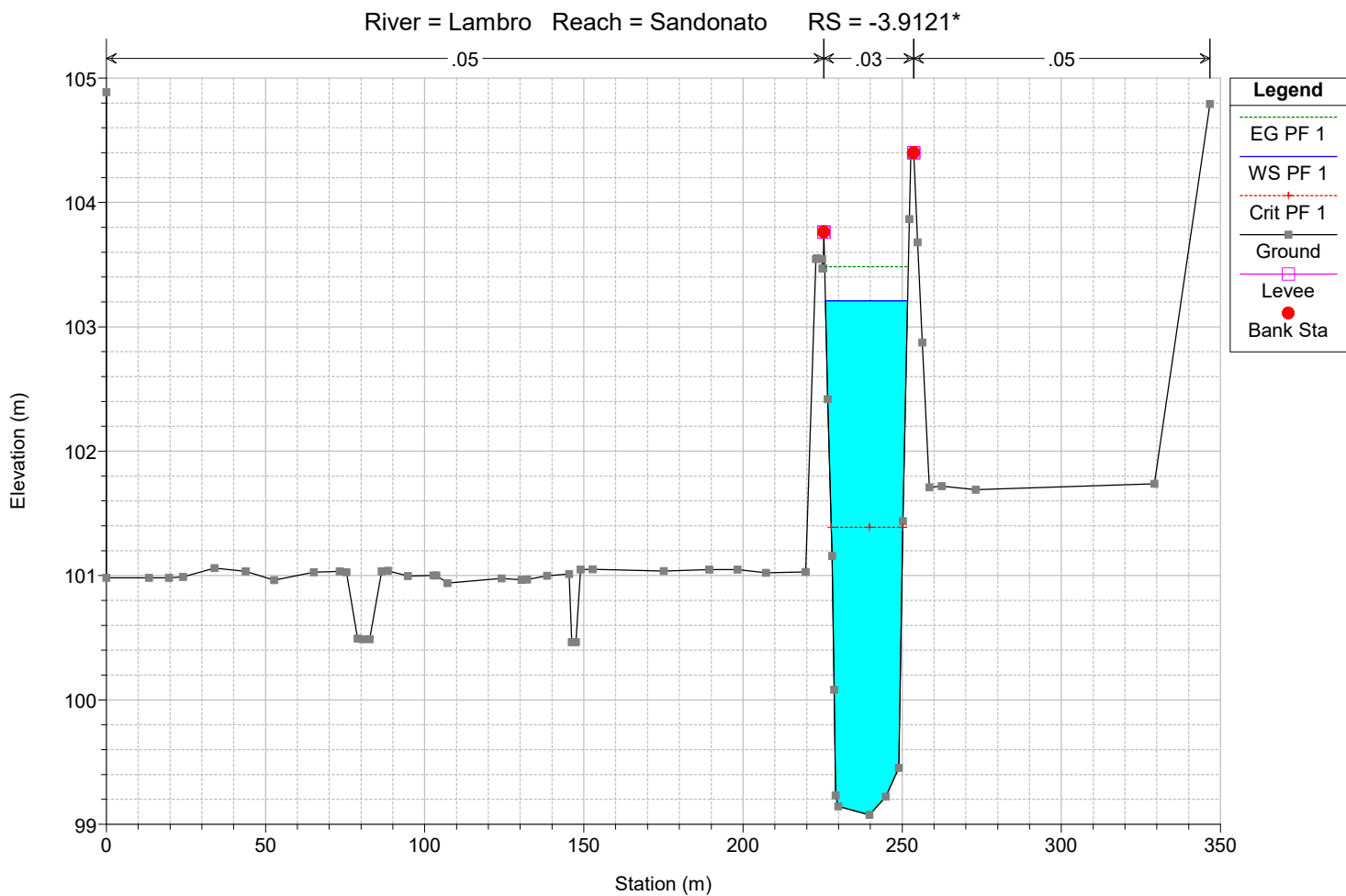


River = Lambro Reach = Sandonato RS = -3.3040*

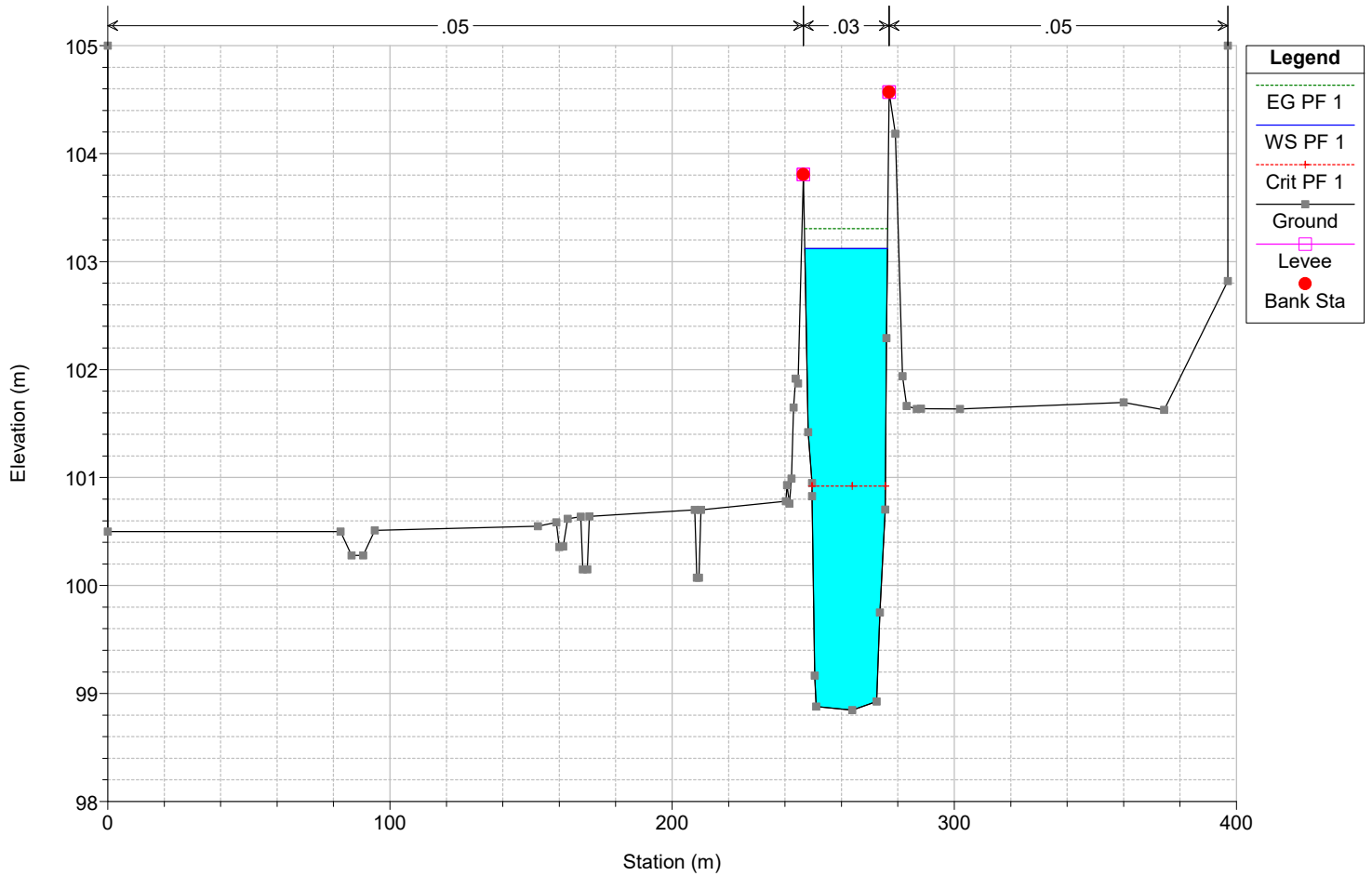


River = Lambro Reach = Sandonato RS = -3.6081*

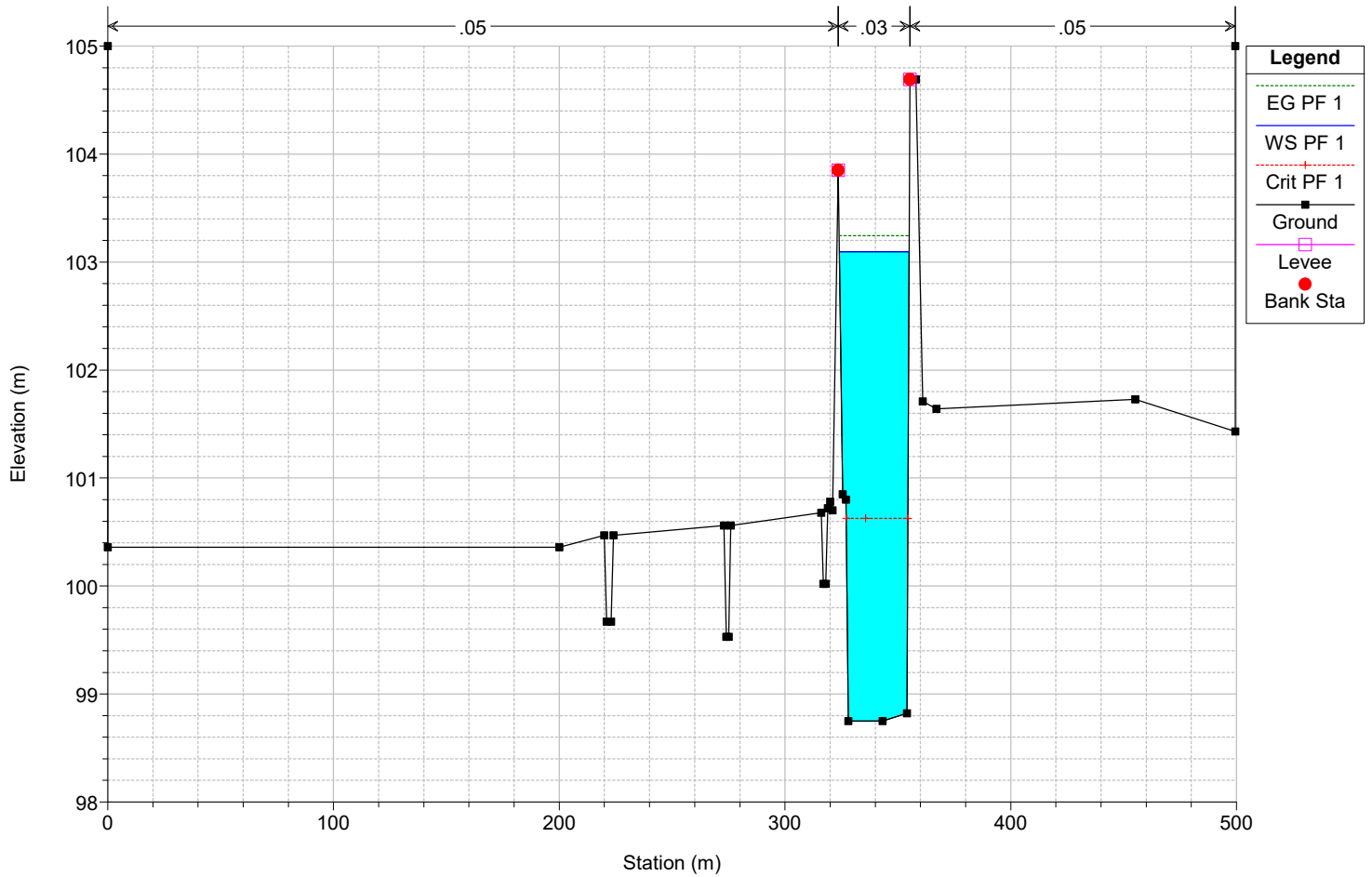




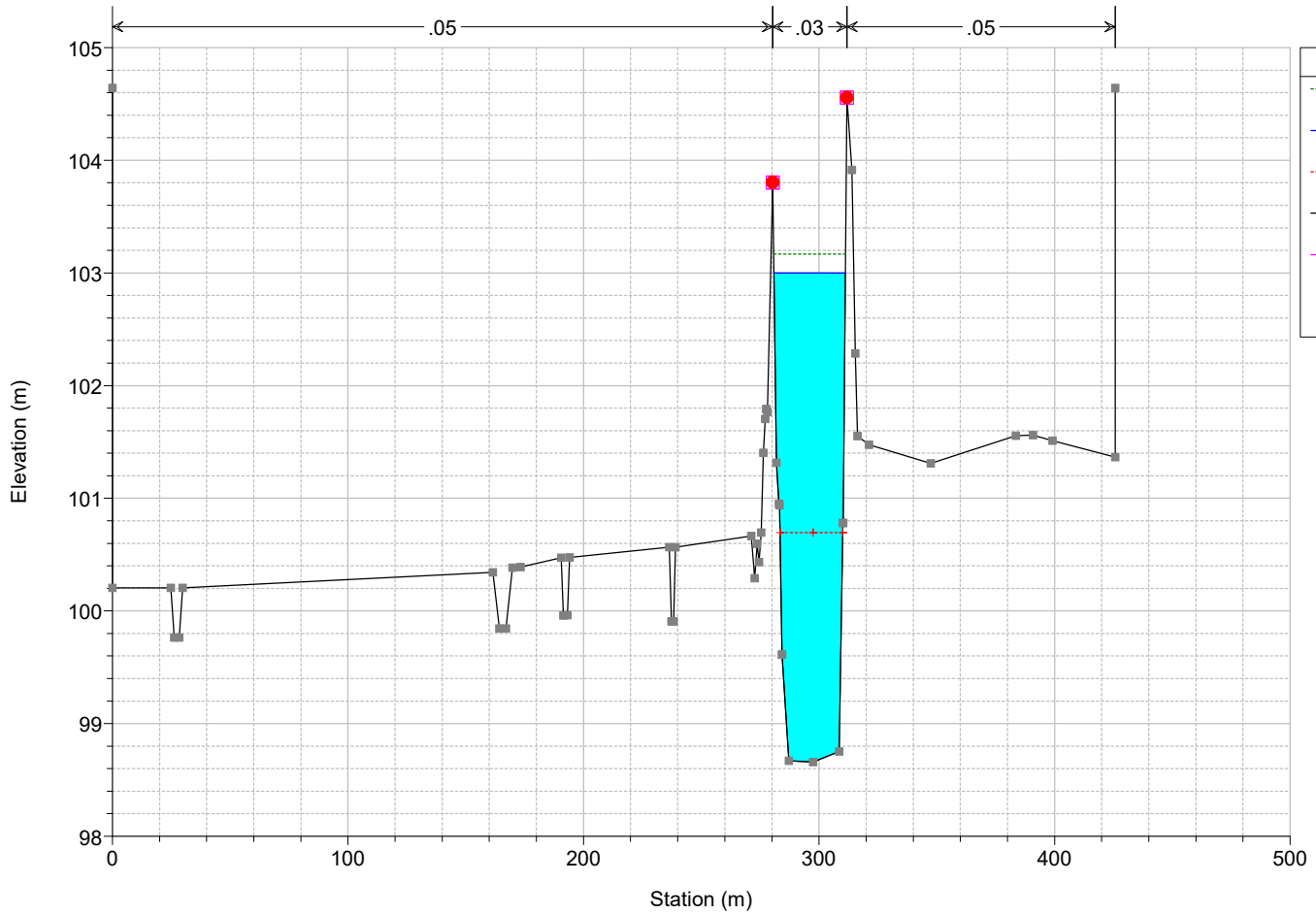
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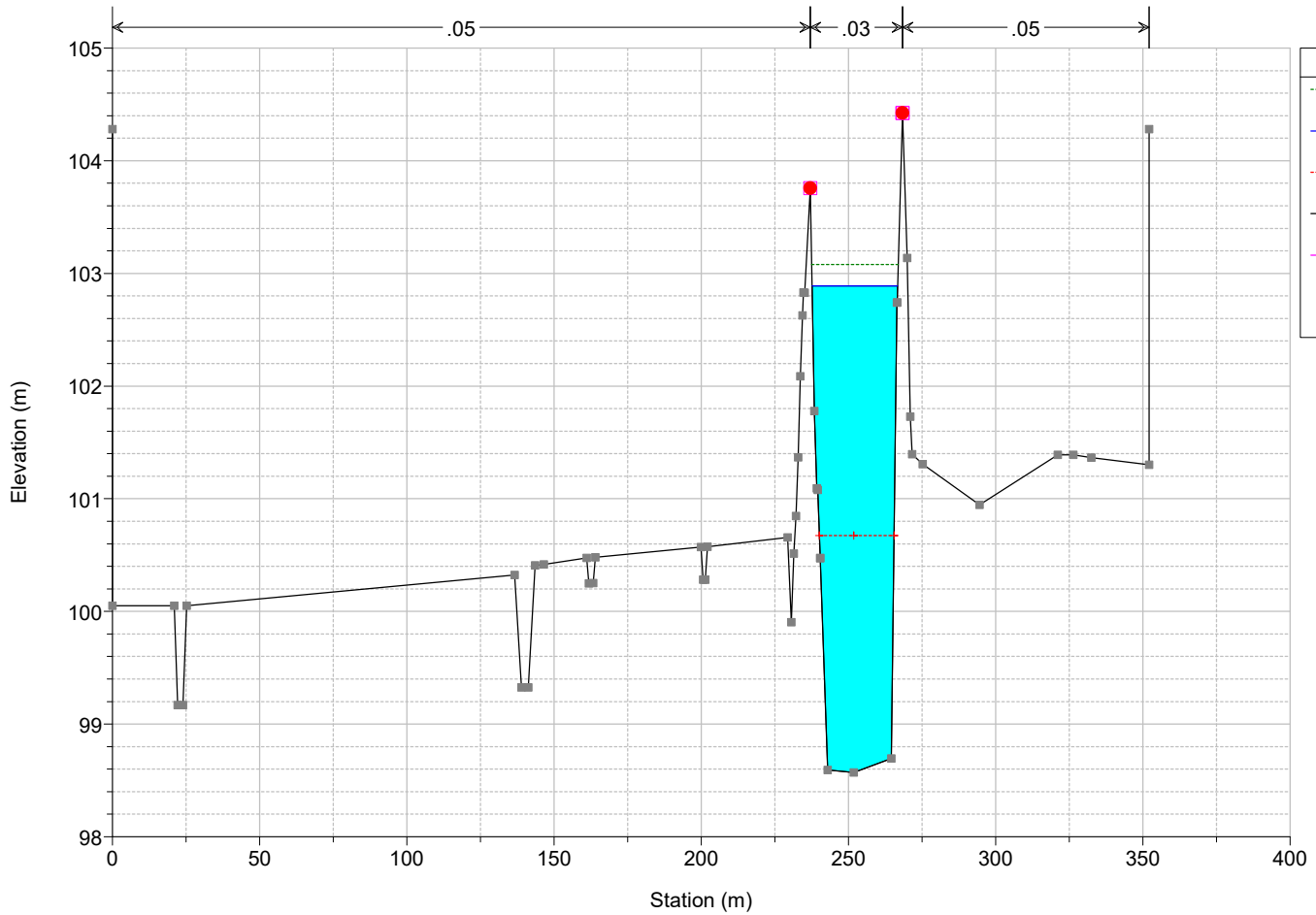
River = Lambro Reach = Sandonato RS = -5 SEZ. 68 AIPO



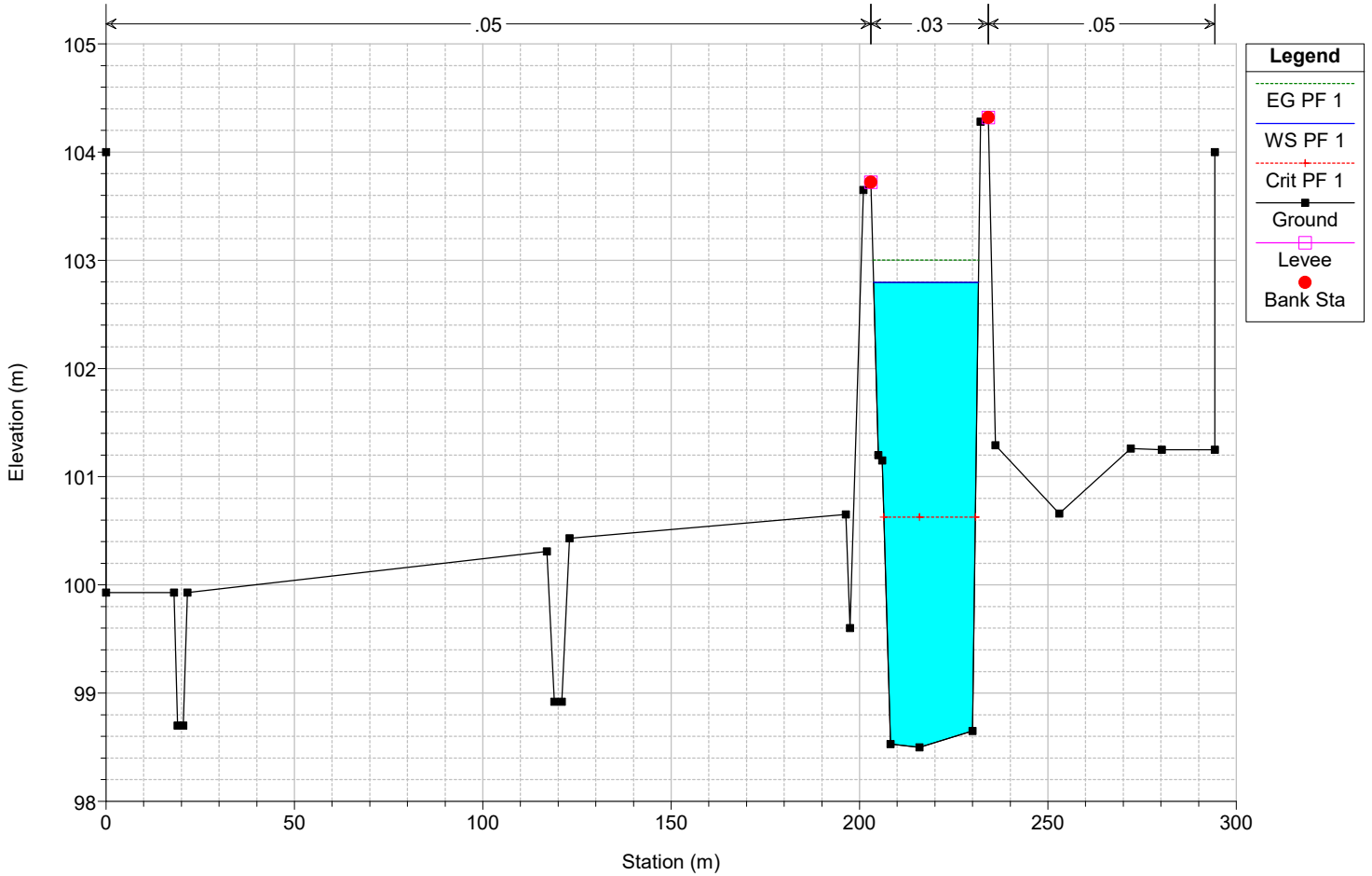
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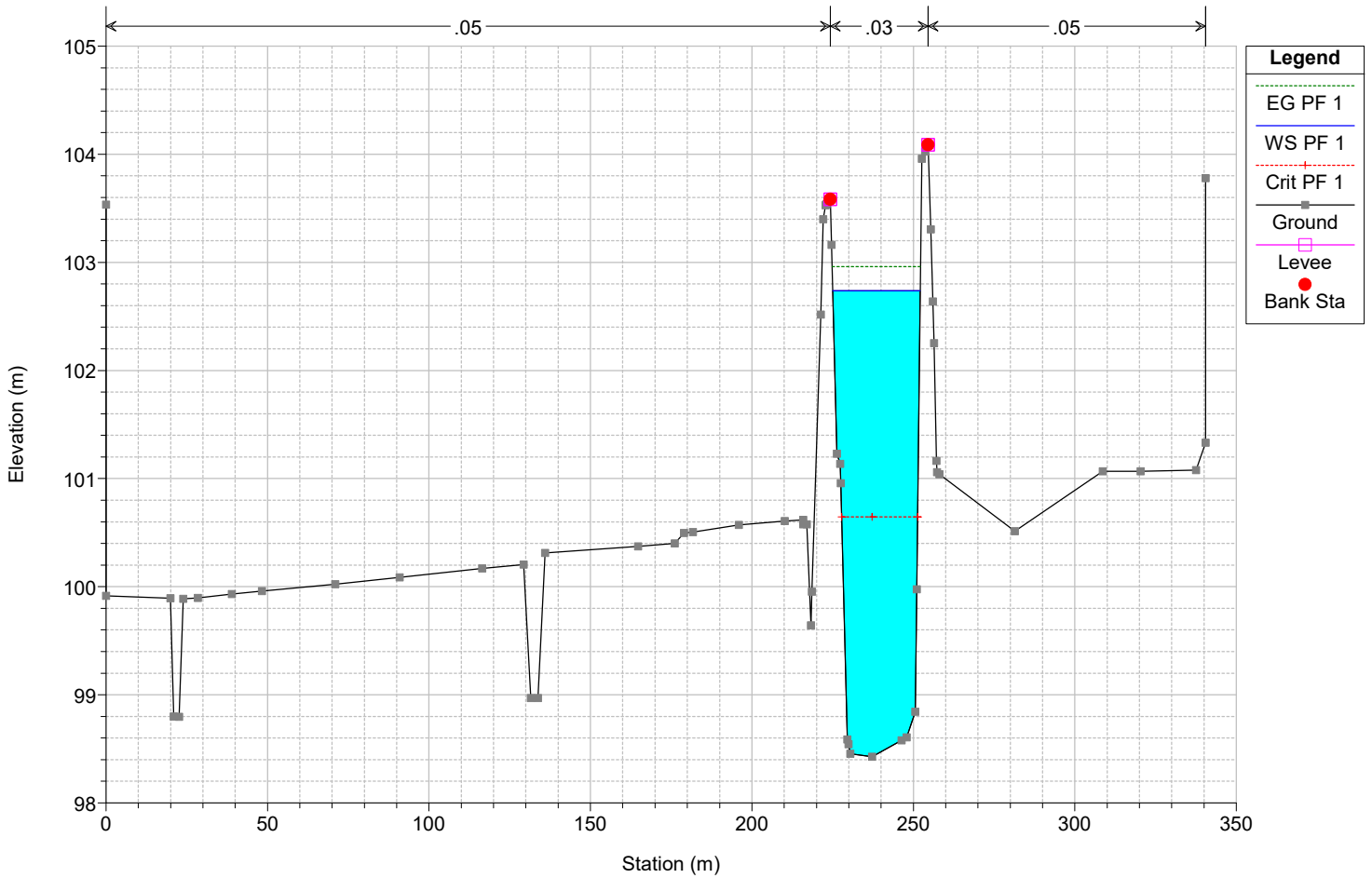
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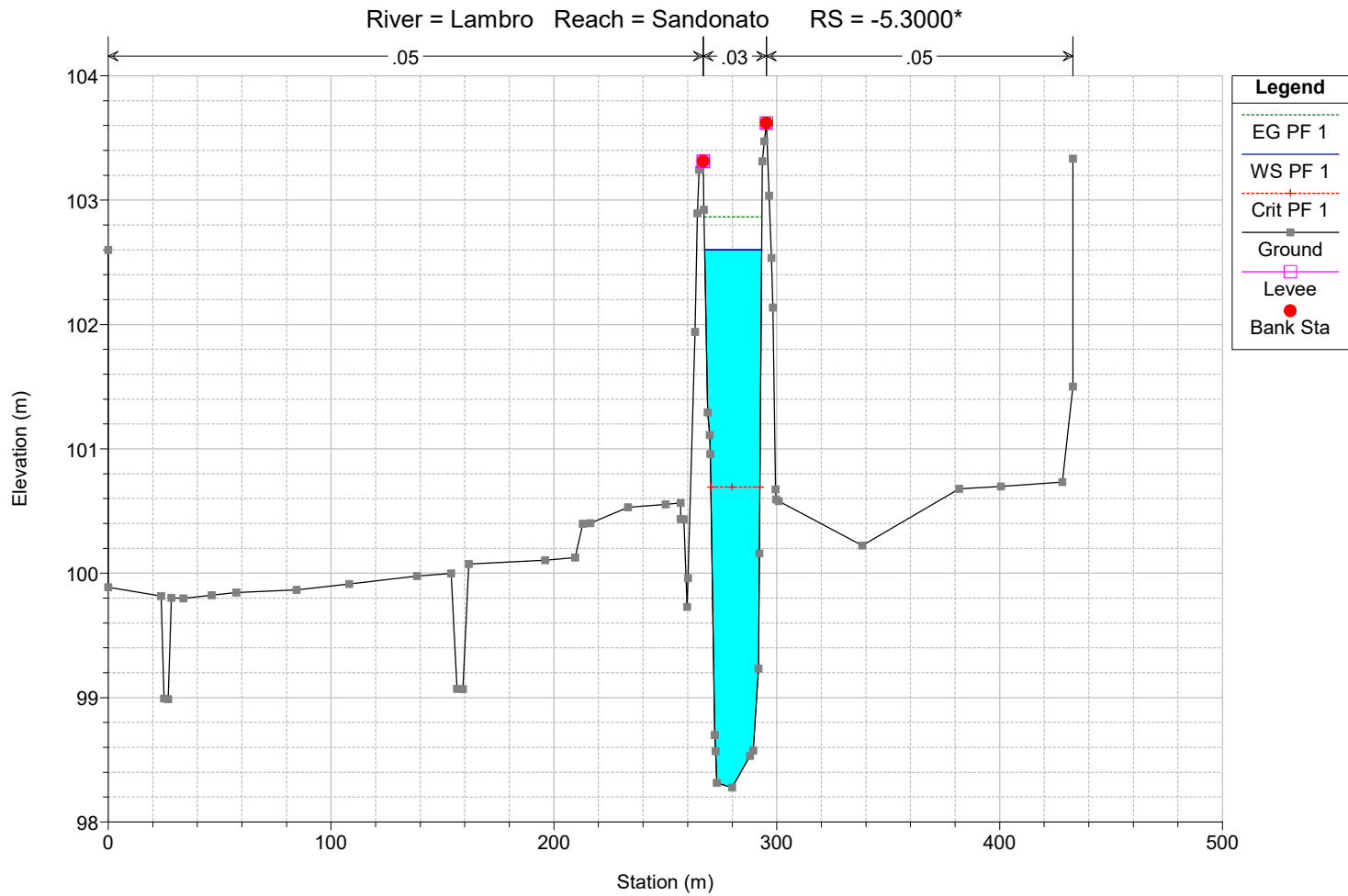
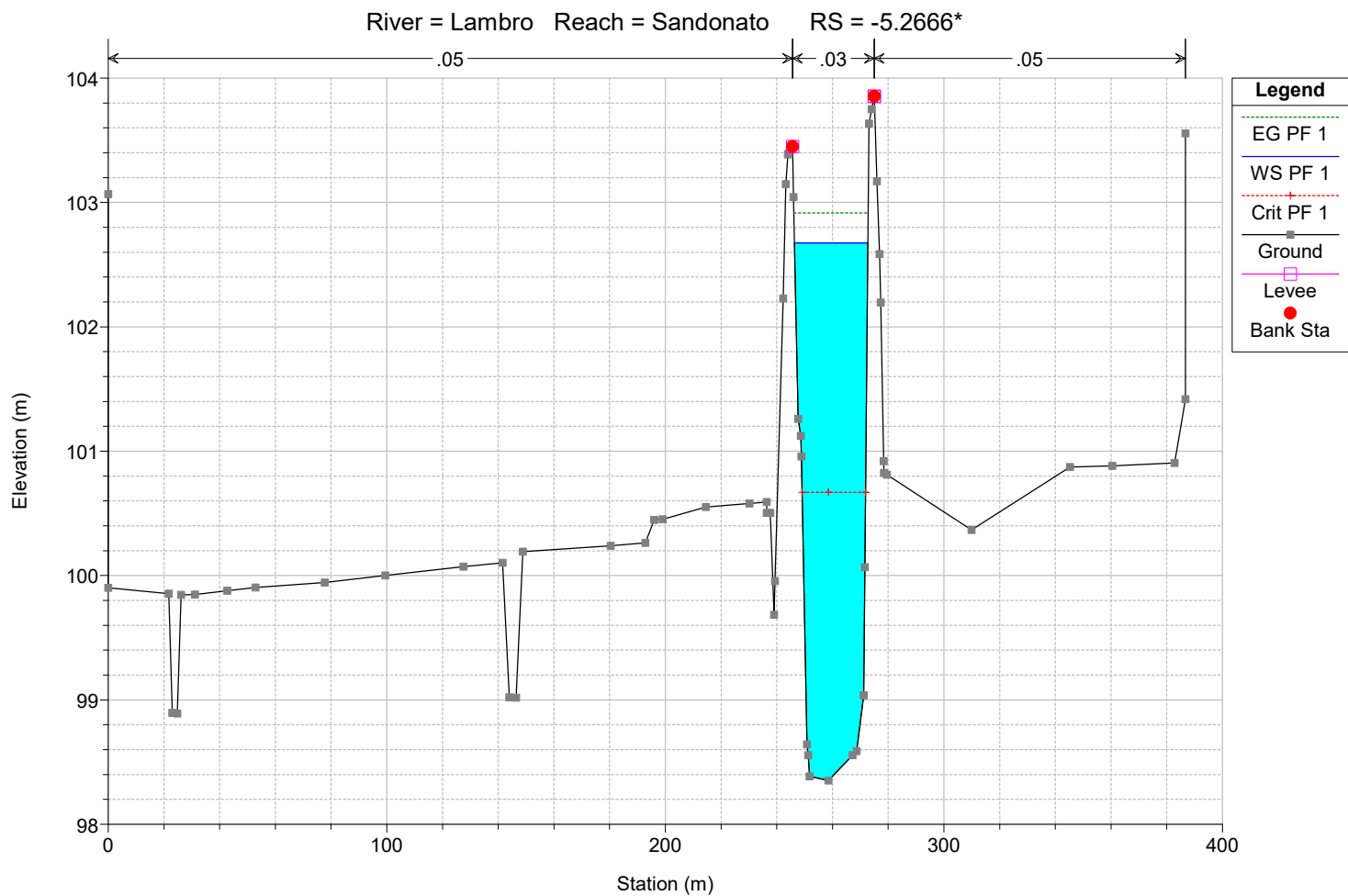


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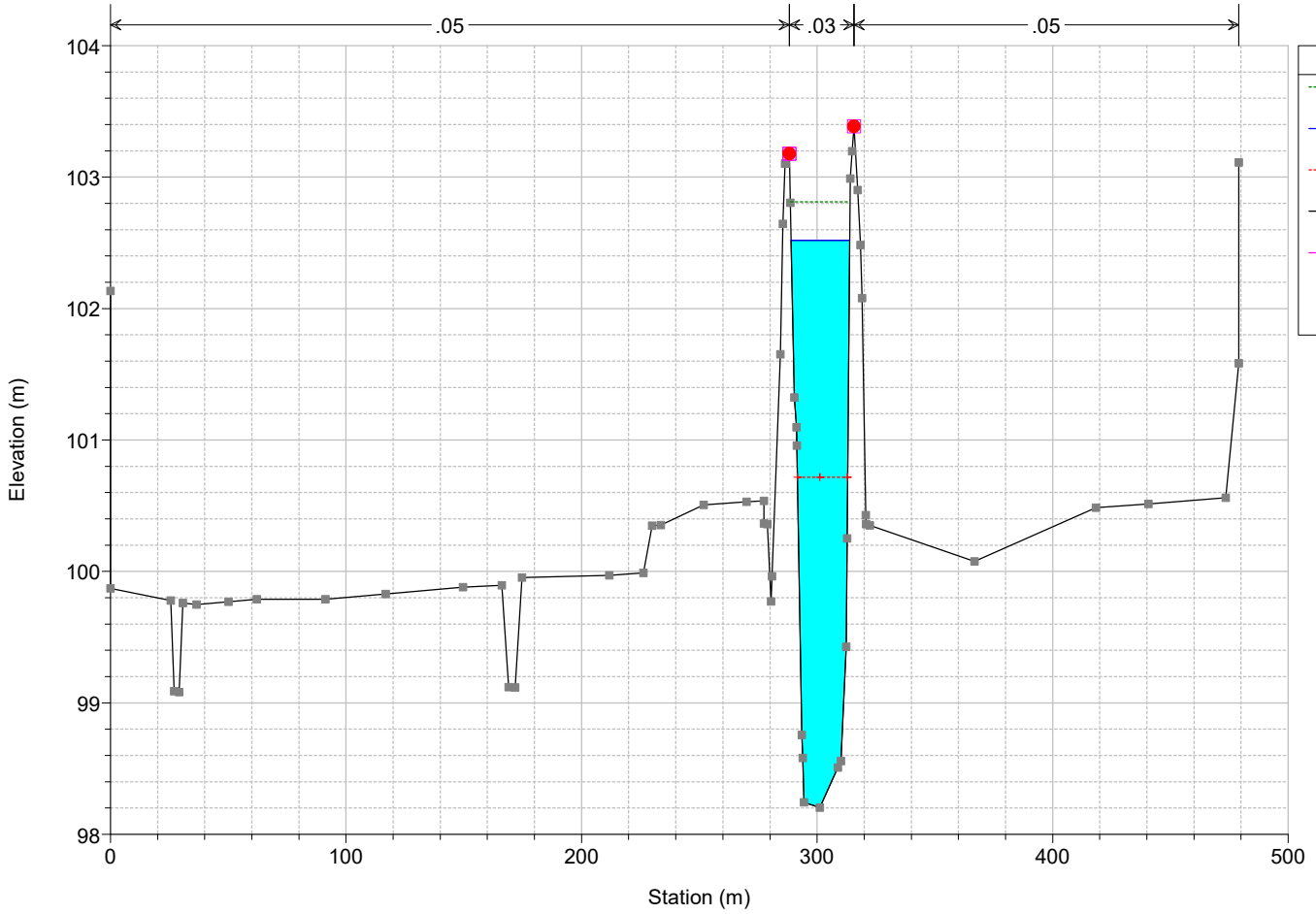


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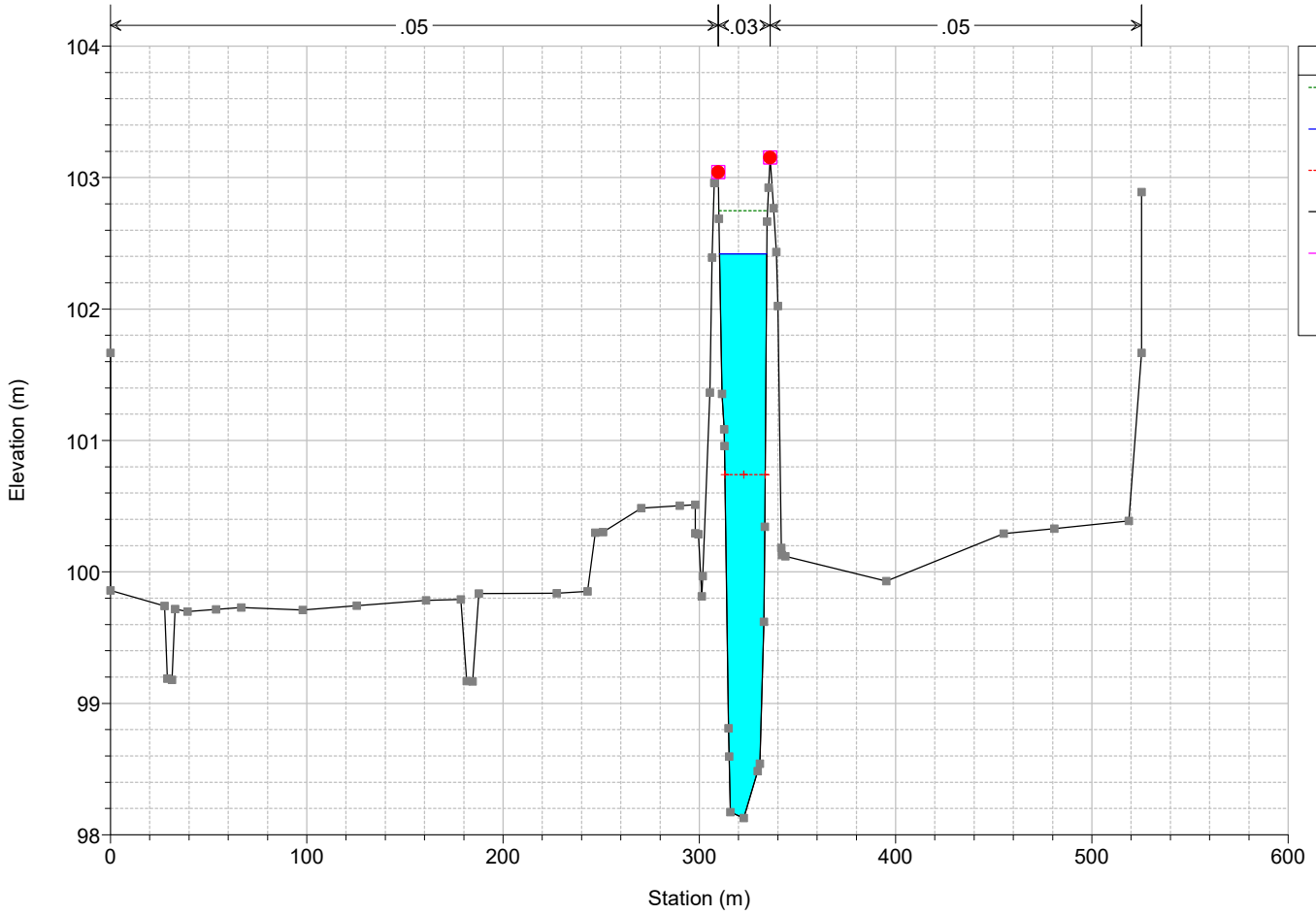


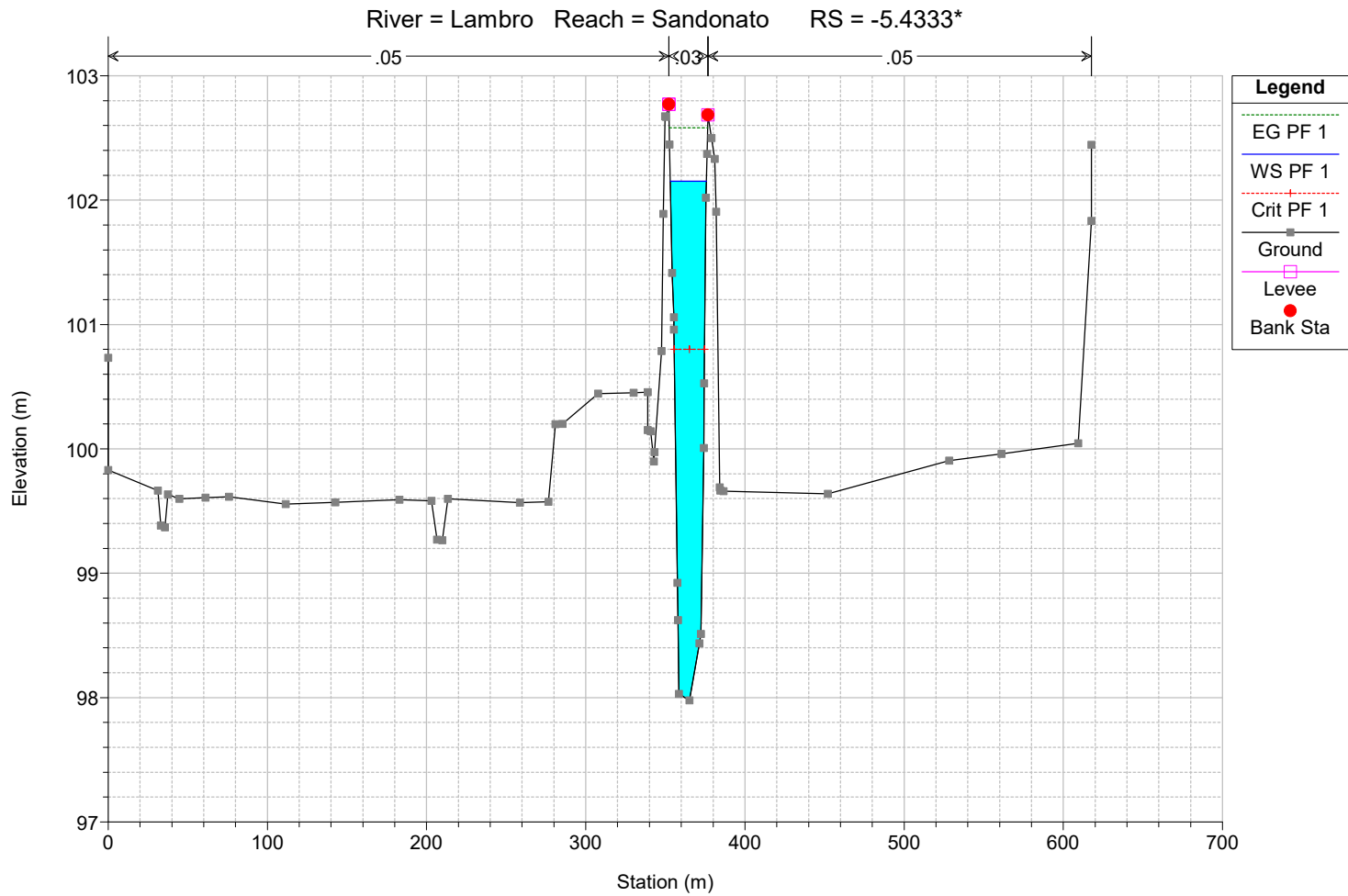
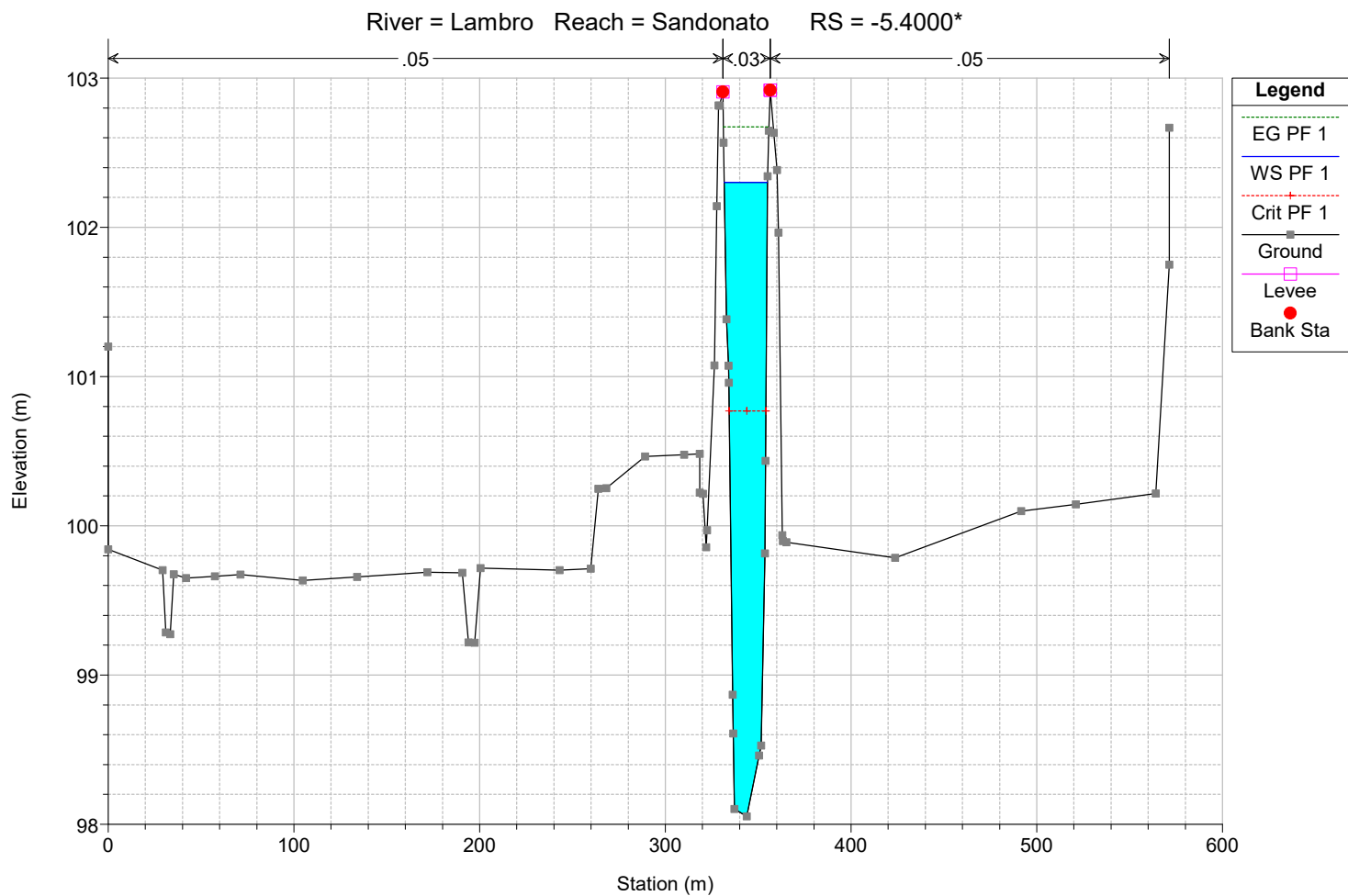


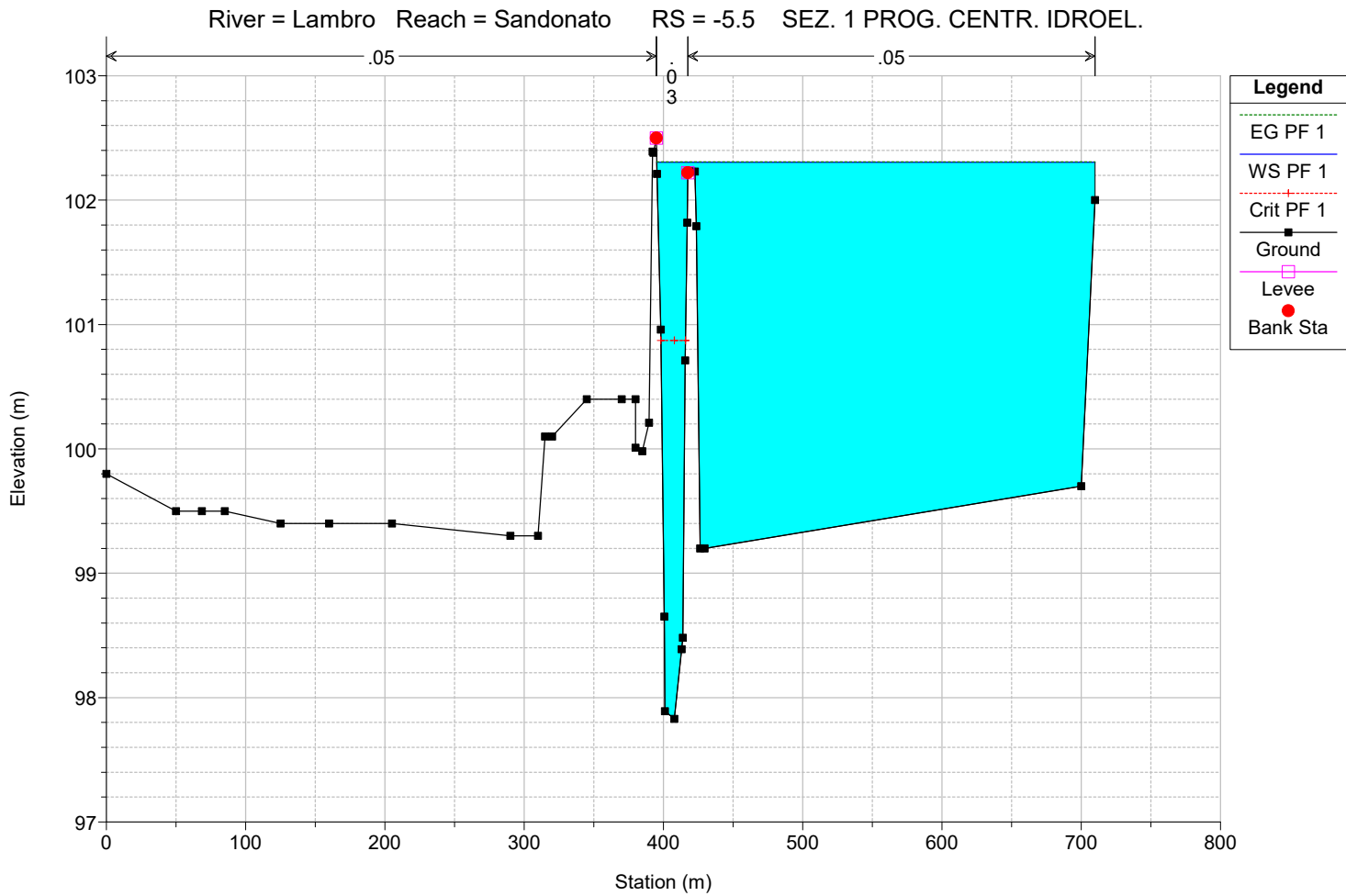
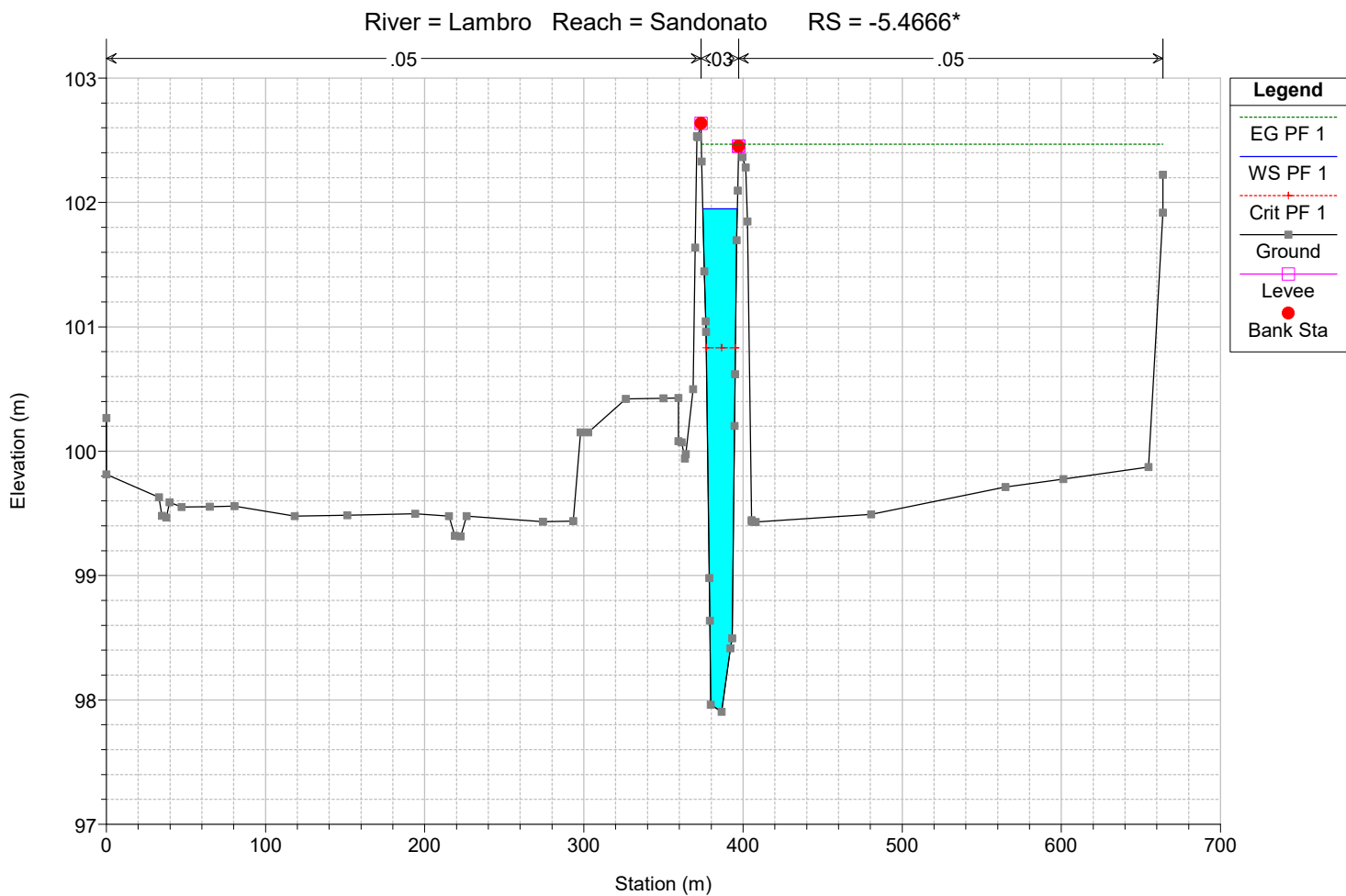
River = Lambro Reach = Sandonato RS = -5.3333*



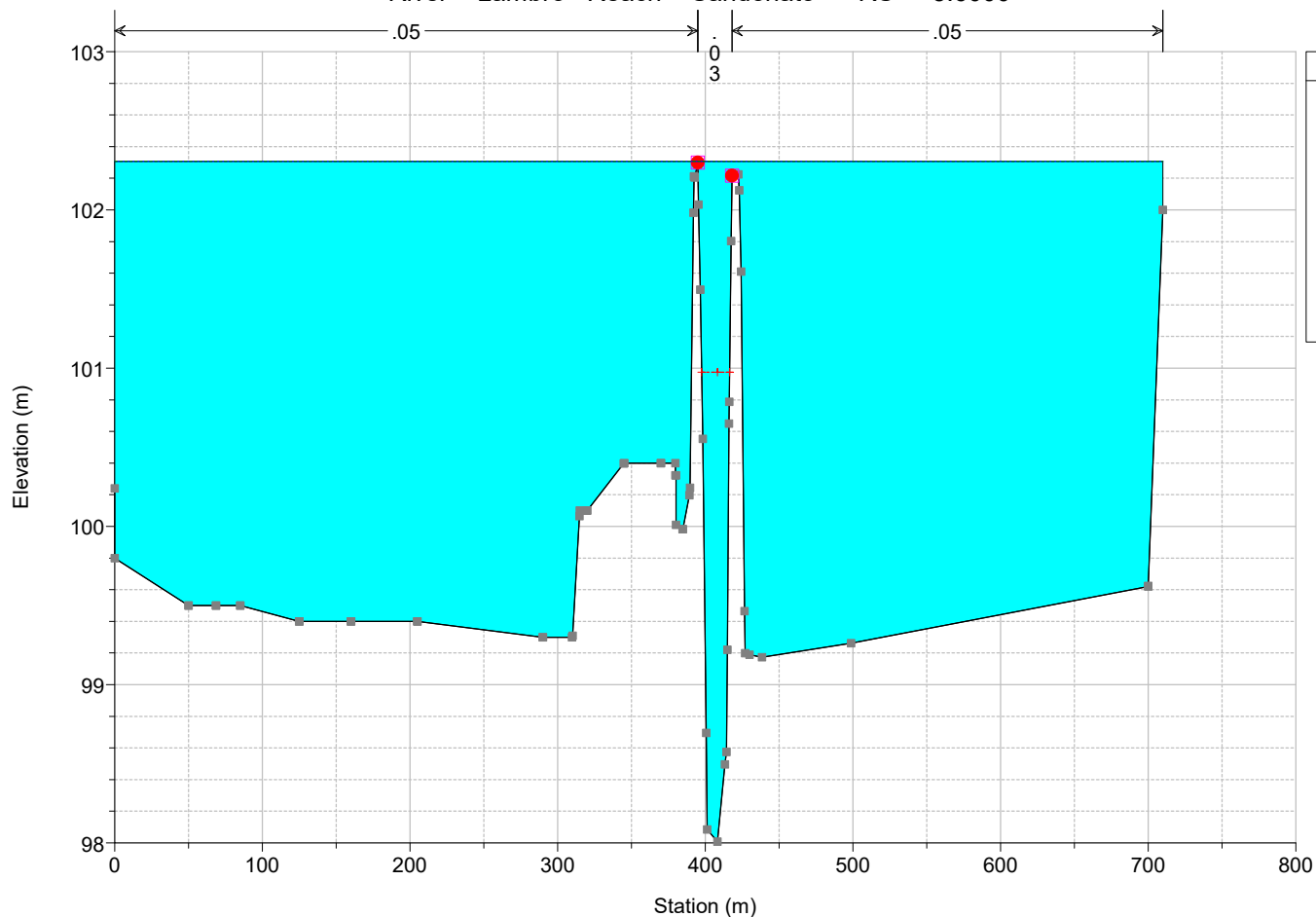
River = Lambro Reach = Sandonato RS = -5.3666*



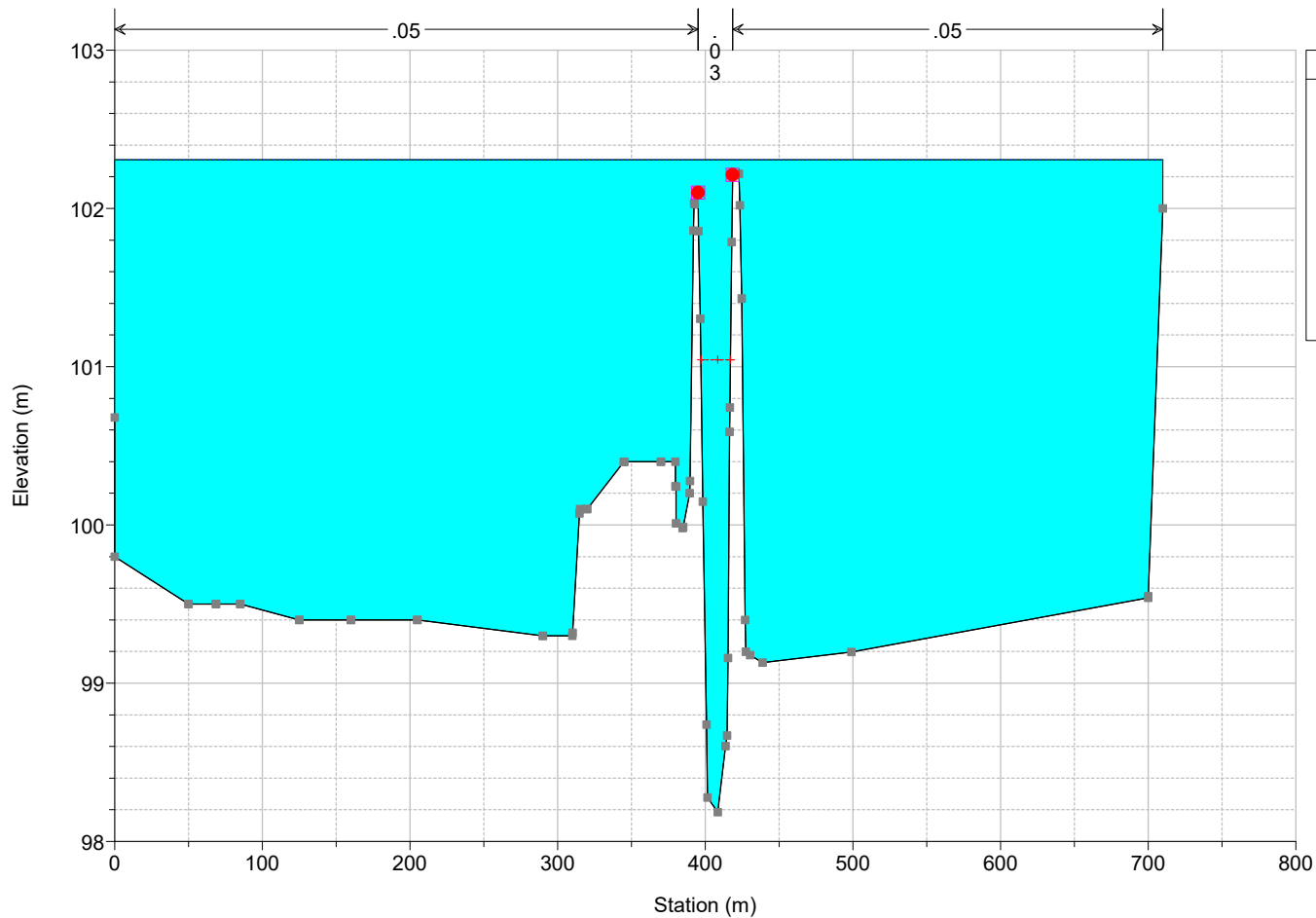


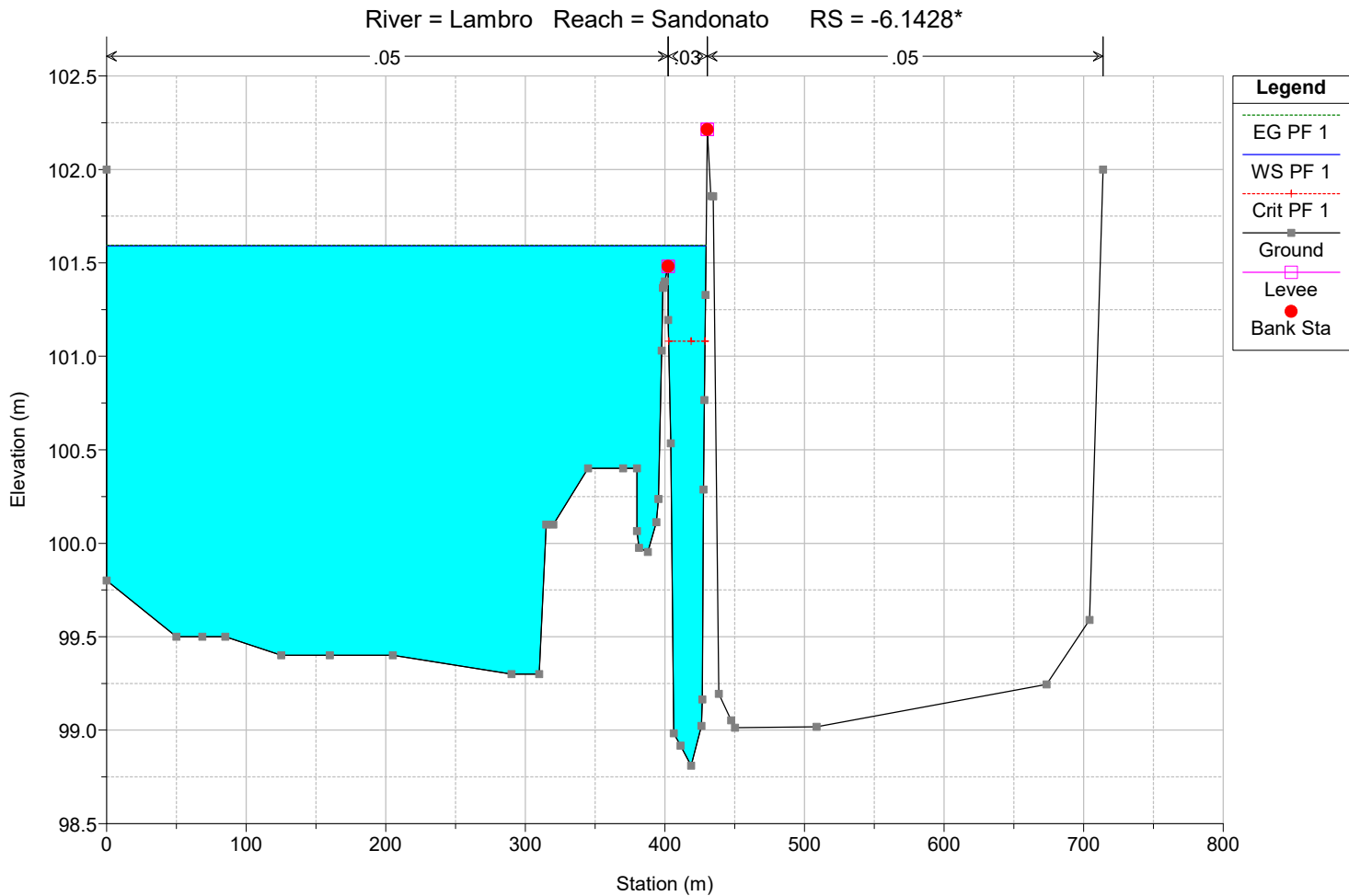
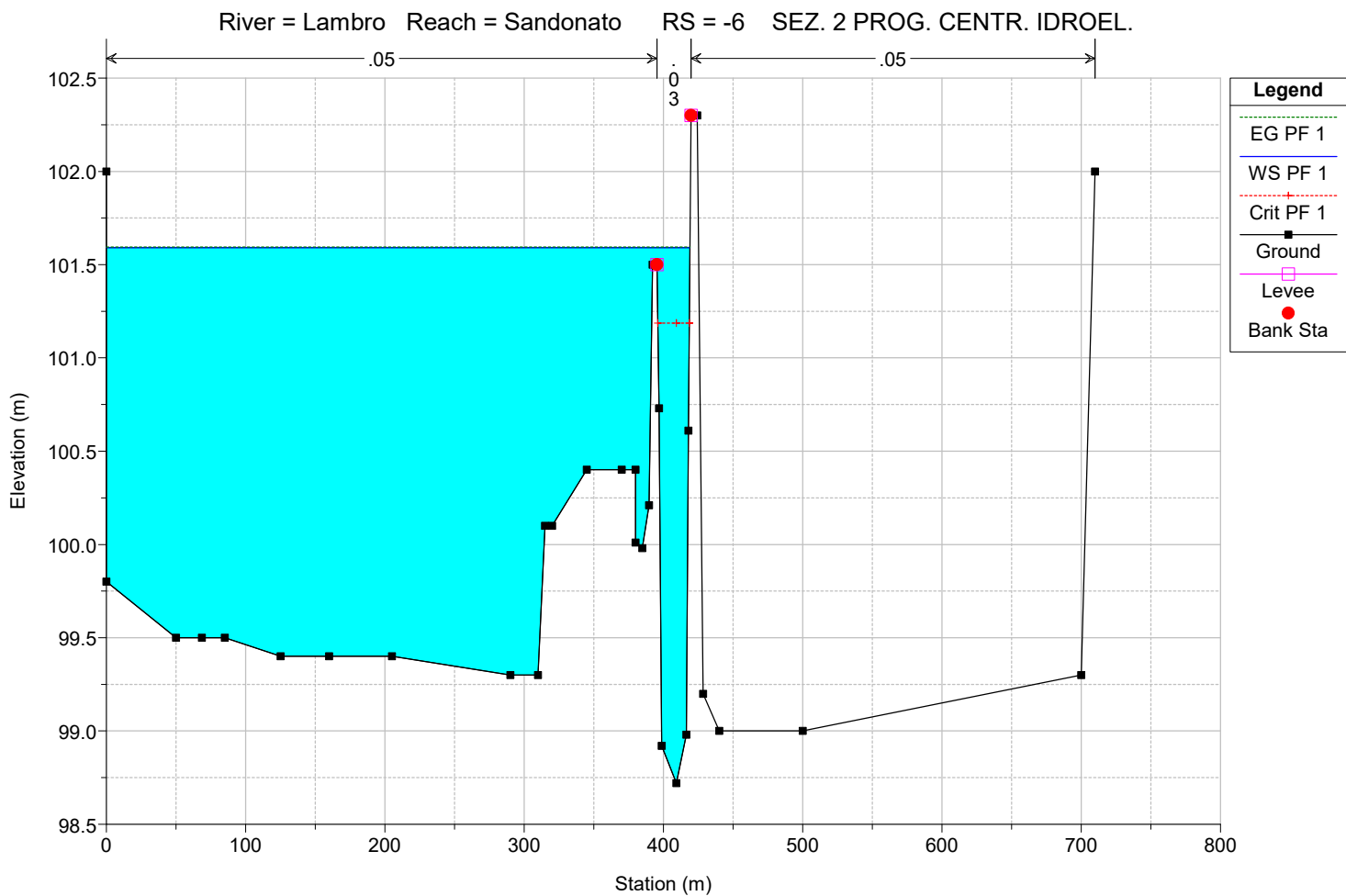


River = Lambro Reach = Sandonato RS = -5.6000*

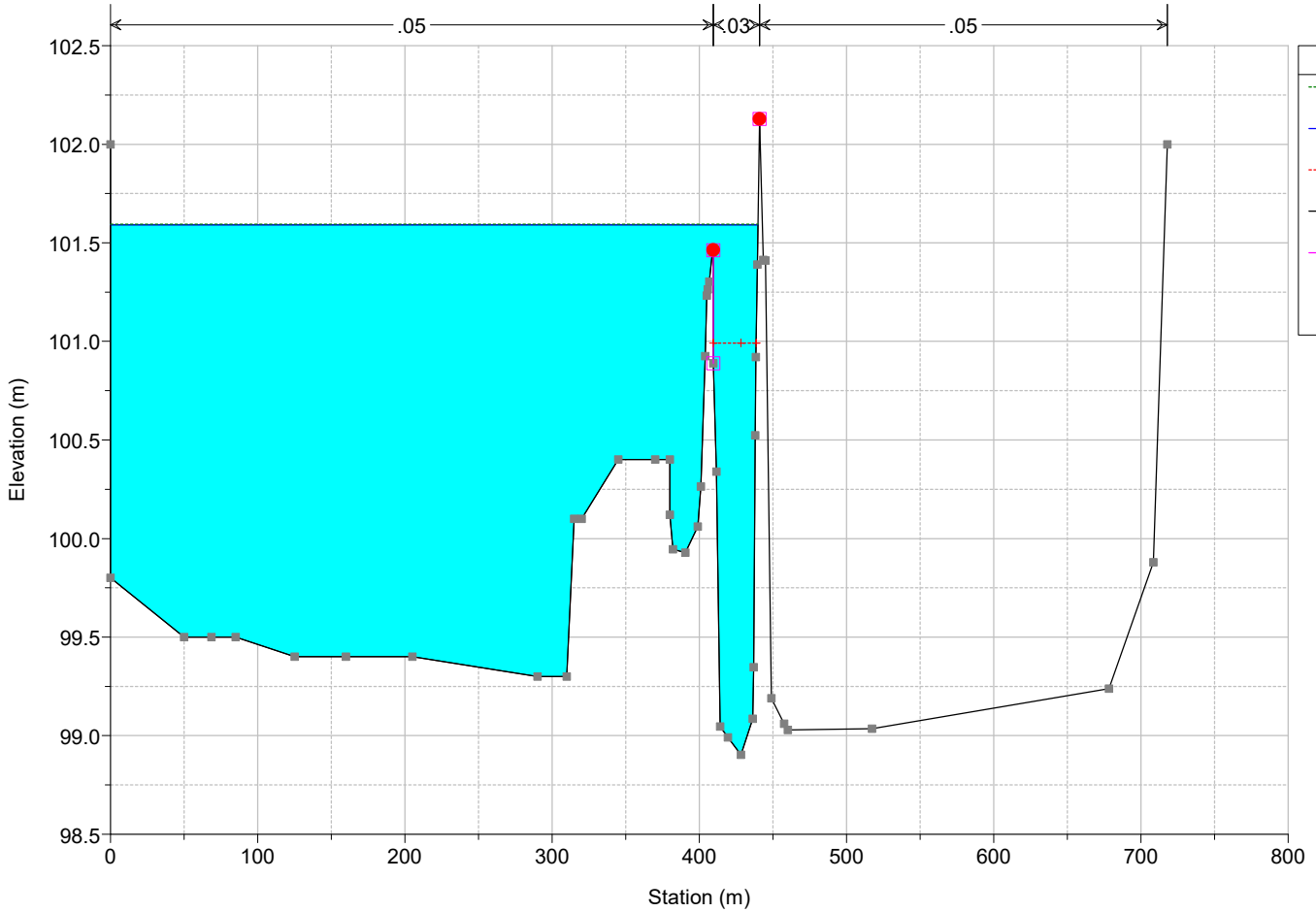


River = Lambro Reach = Sandonato RS = -5.7000*

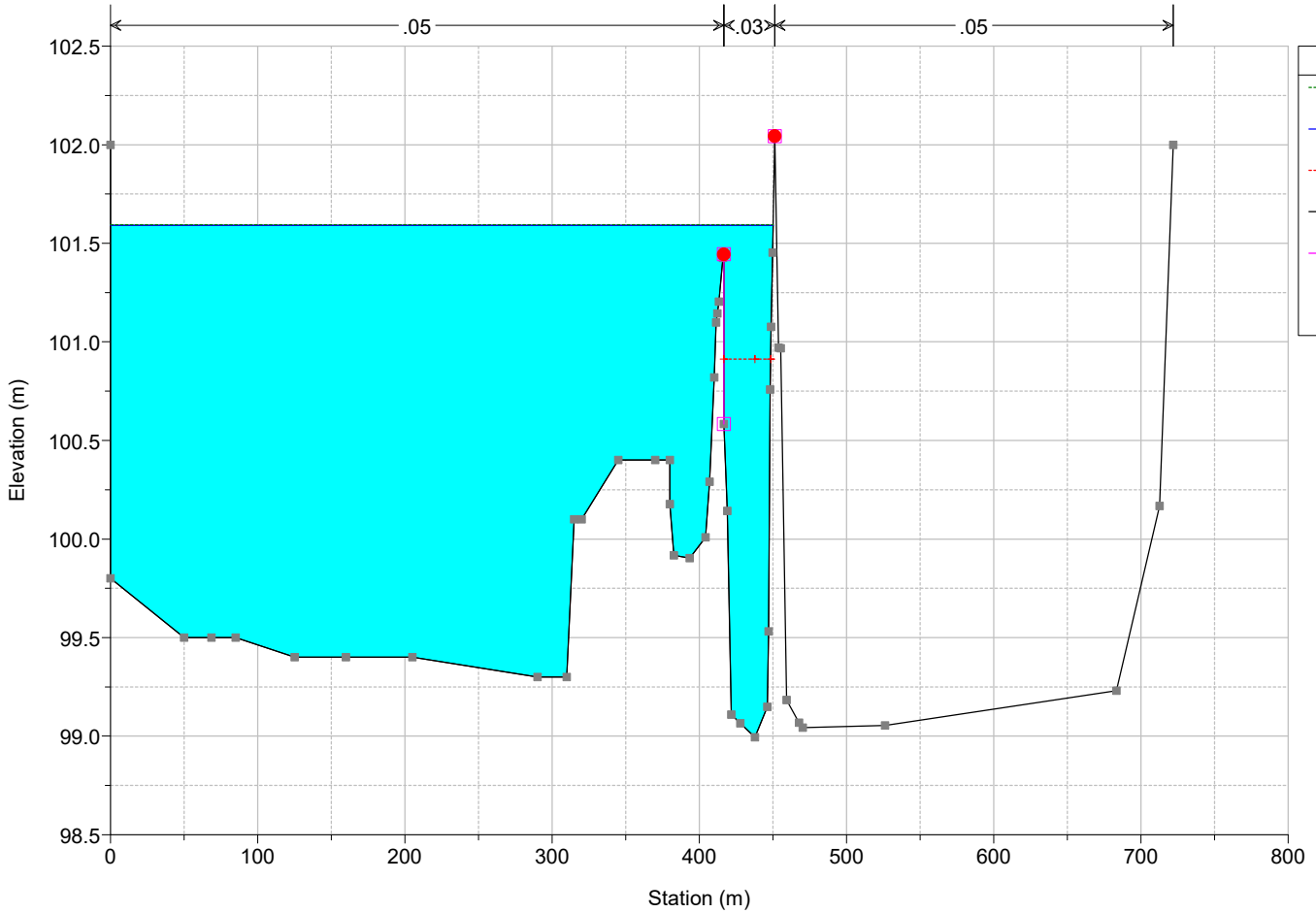


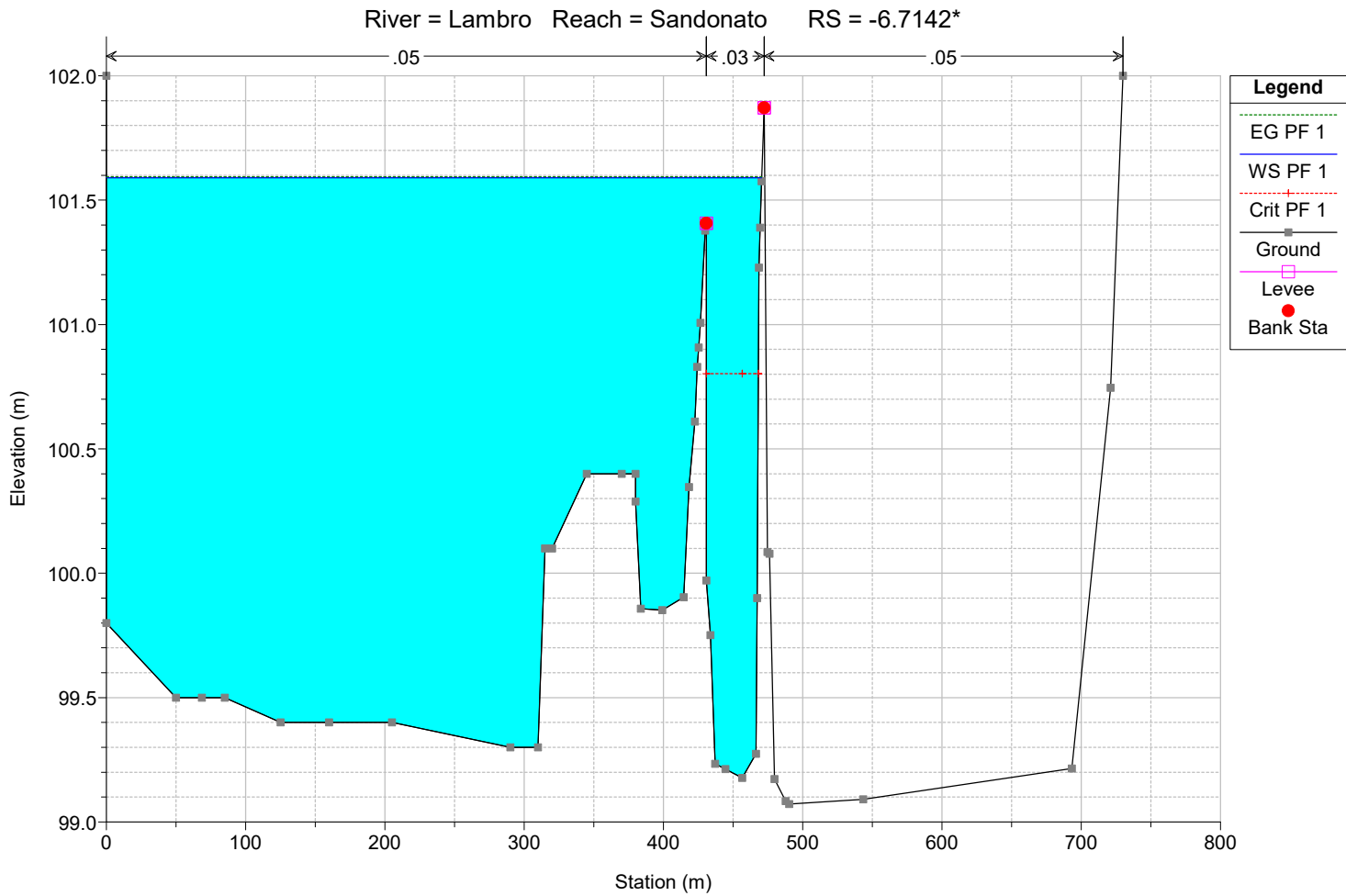
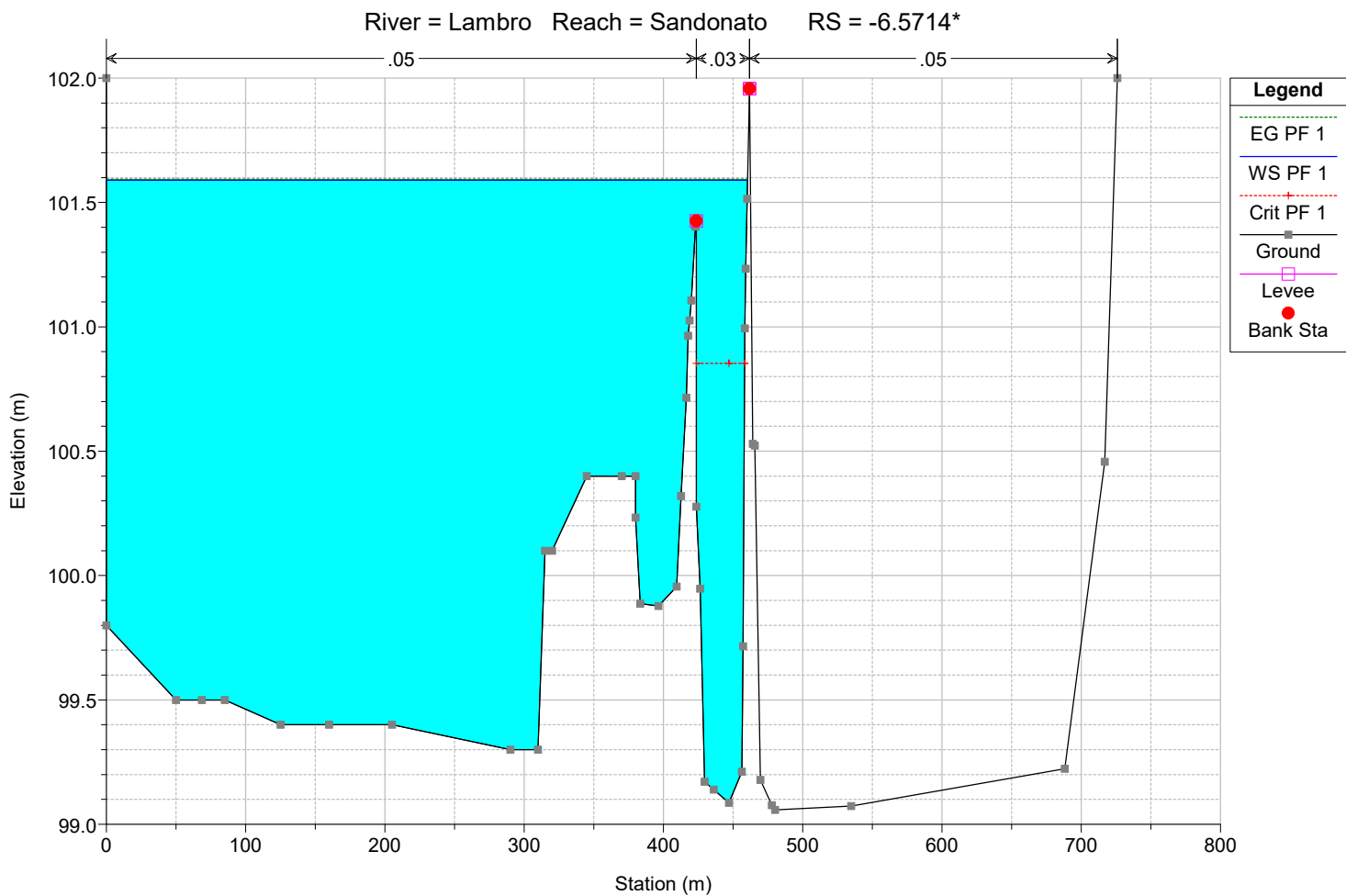


River = Lambro Reach = Sandonato RS = -6.2857*

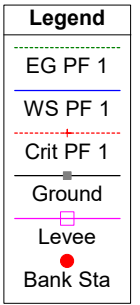
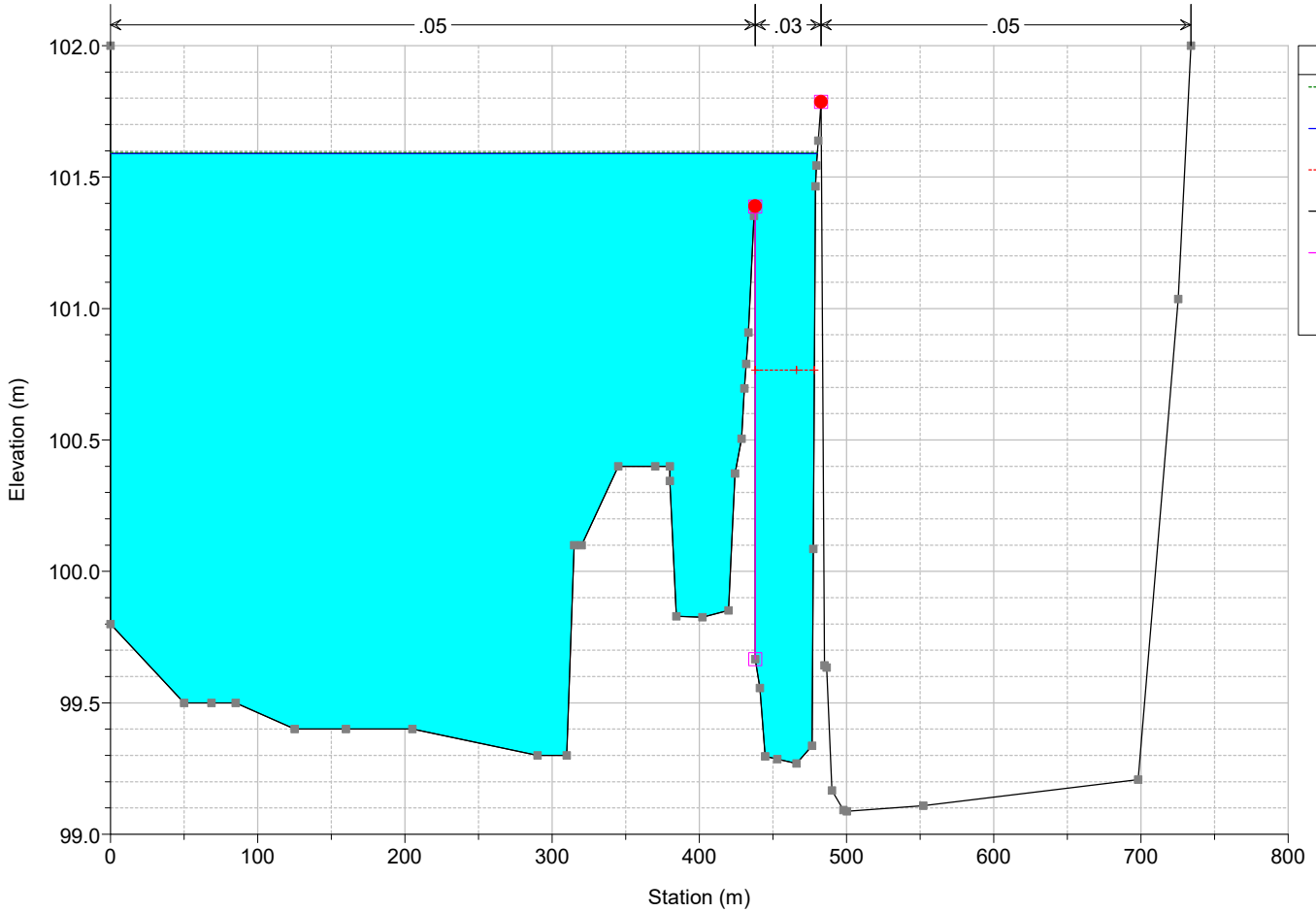


River = Lambro Reach = Sandonato RS = -6.4285*

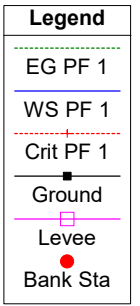
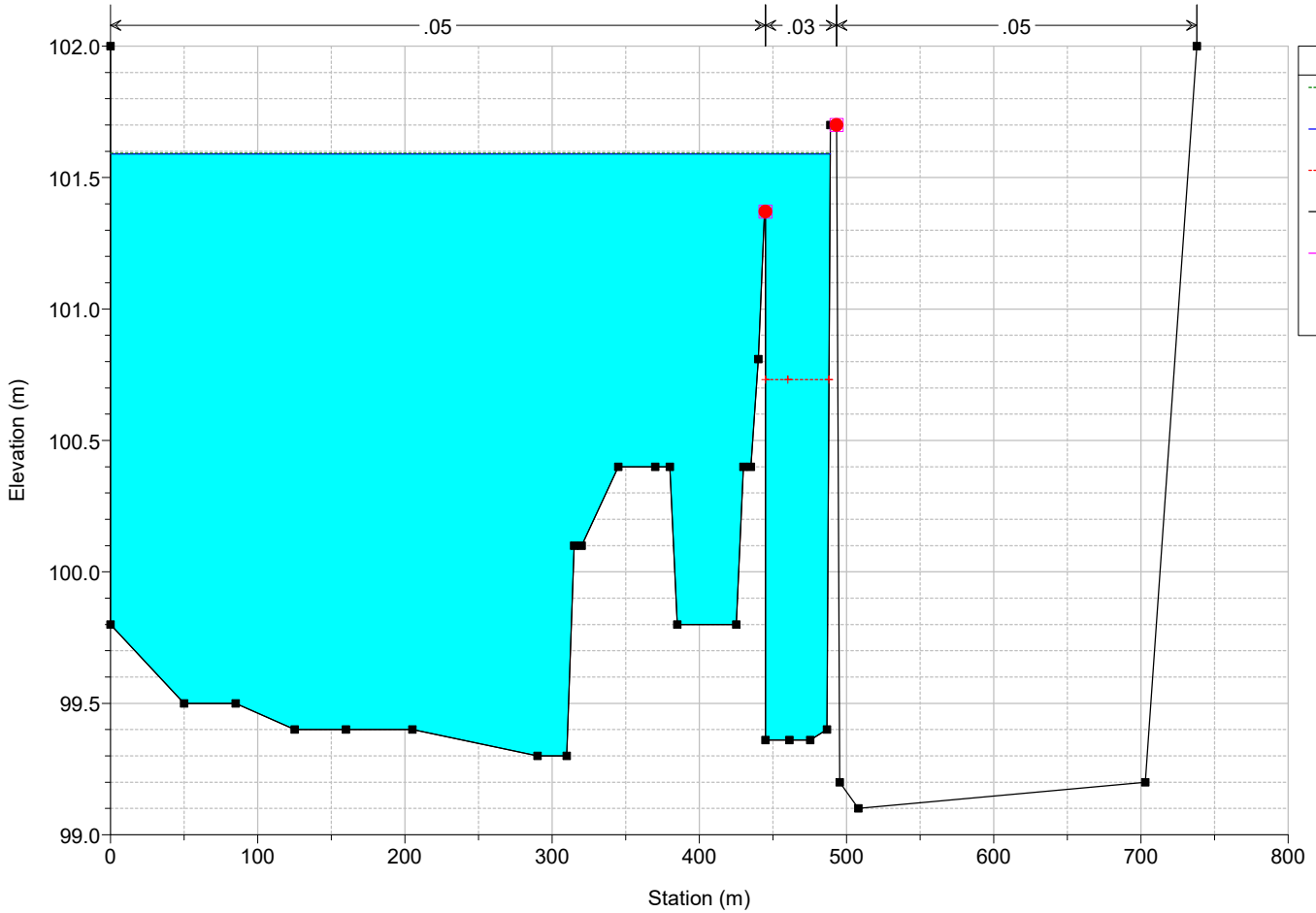




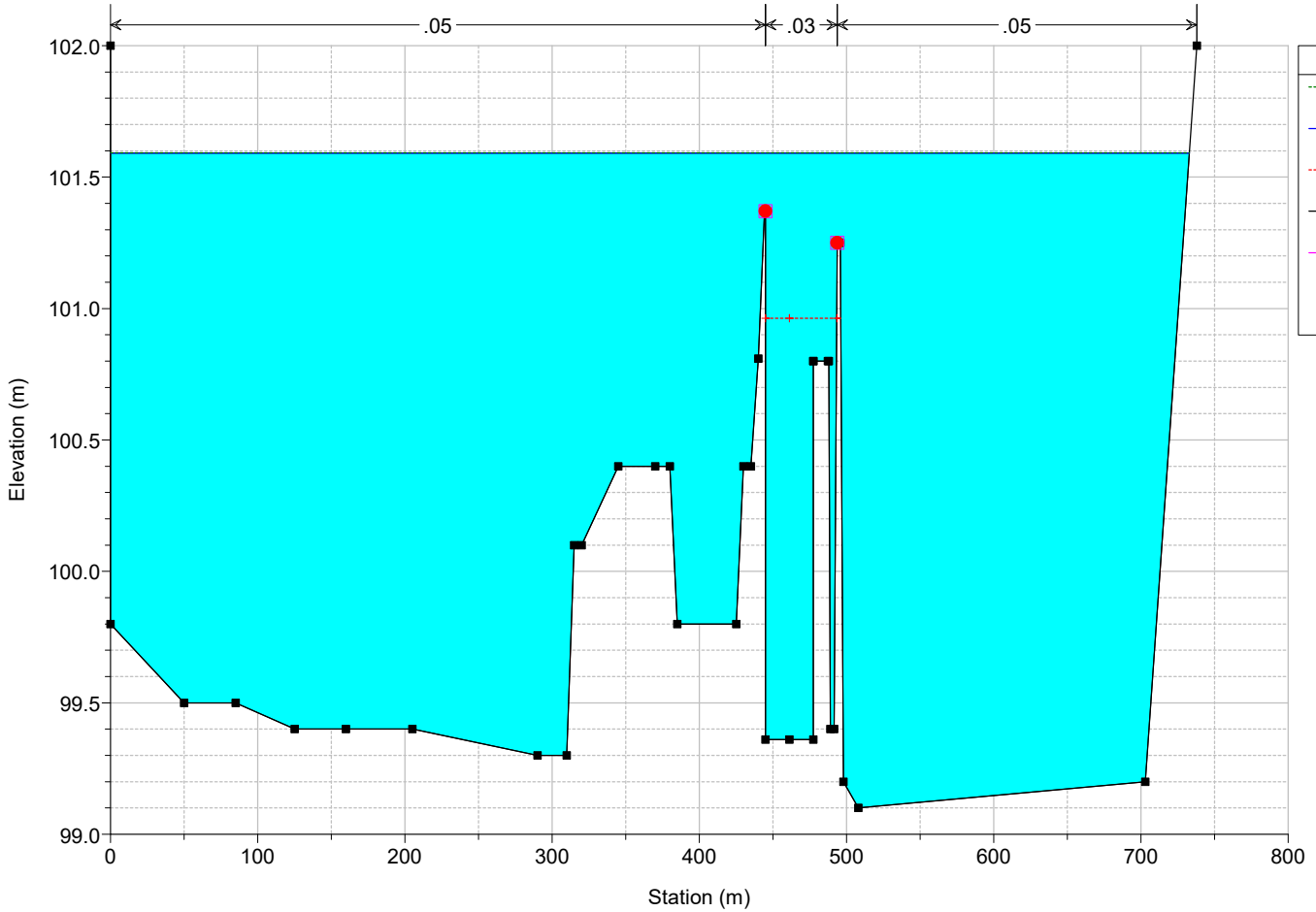
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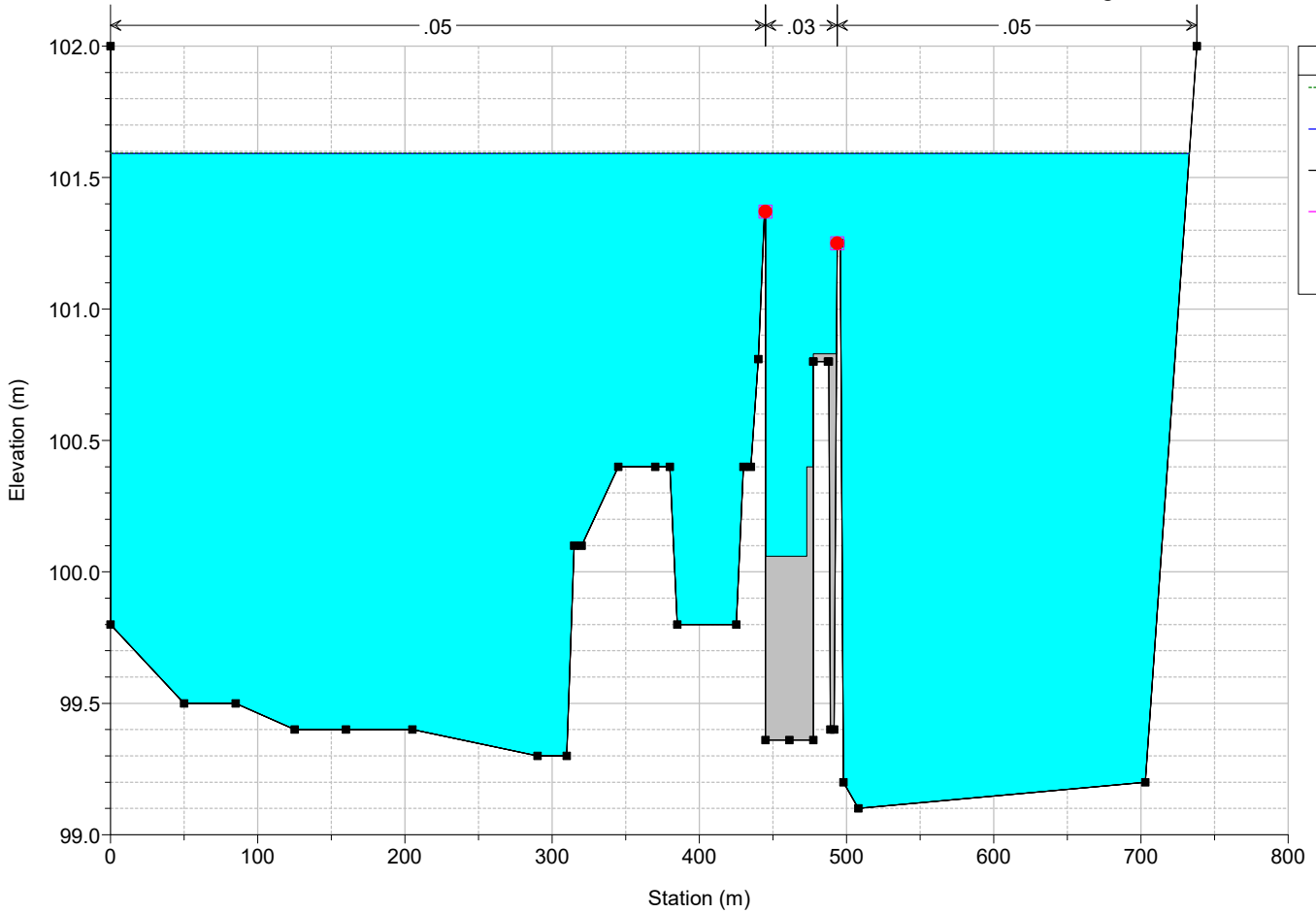
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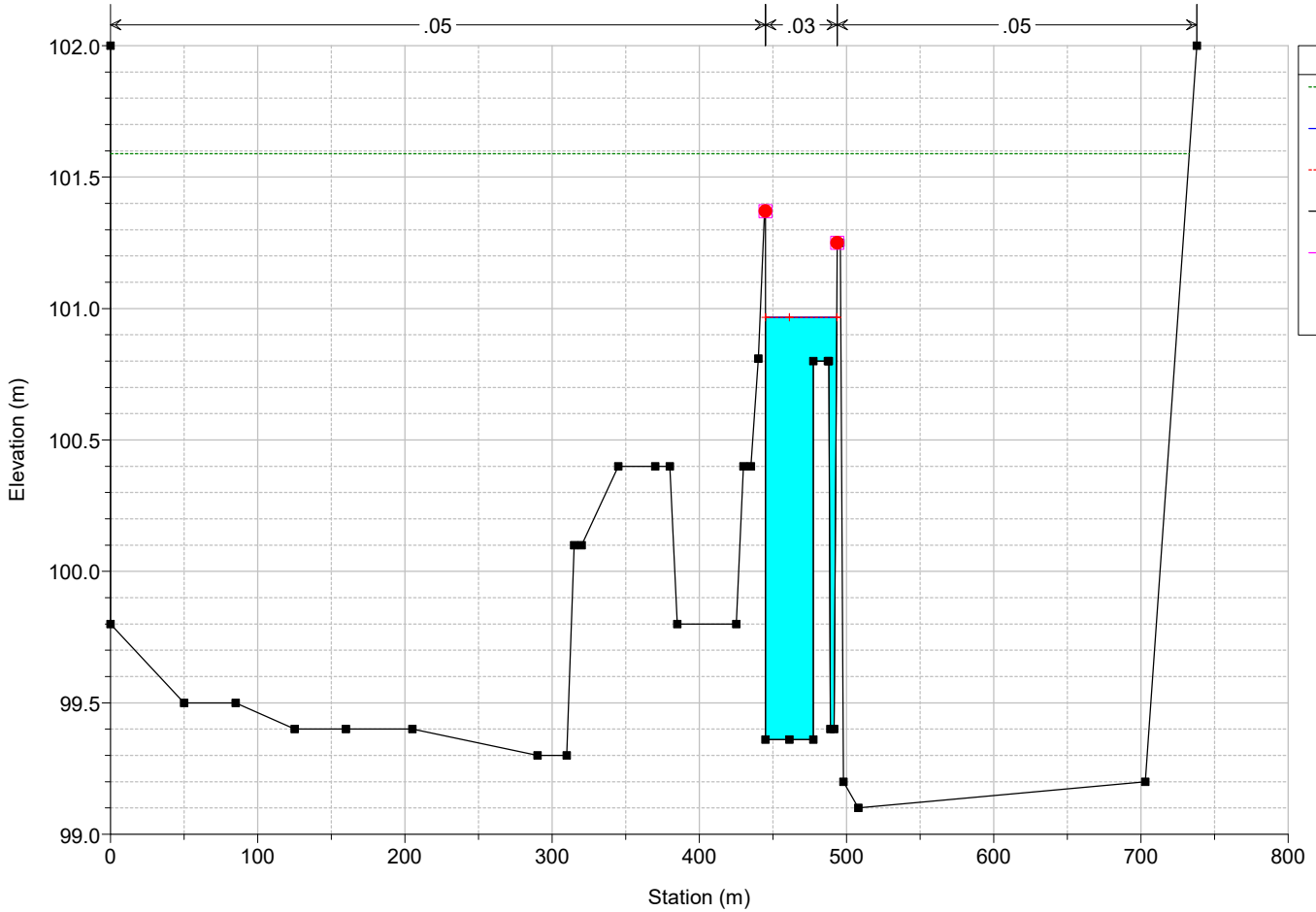
River = Lambro Reach = Sandonato RS = -8



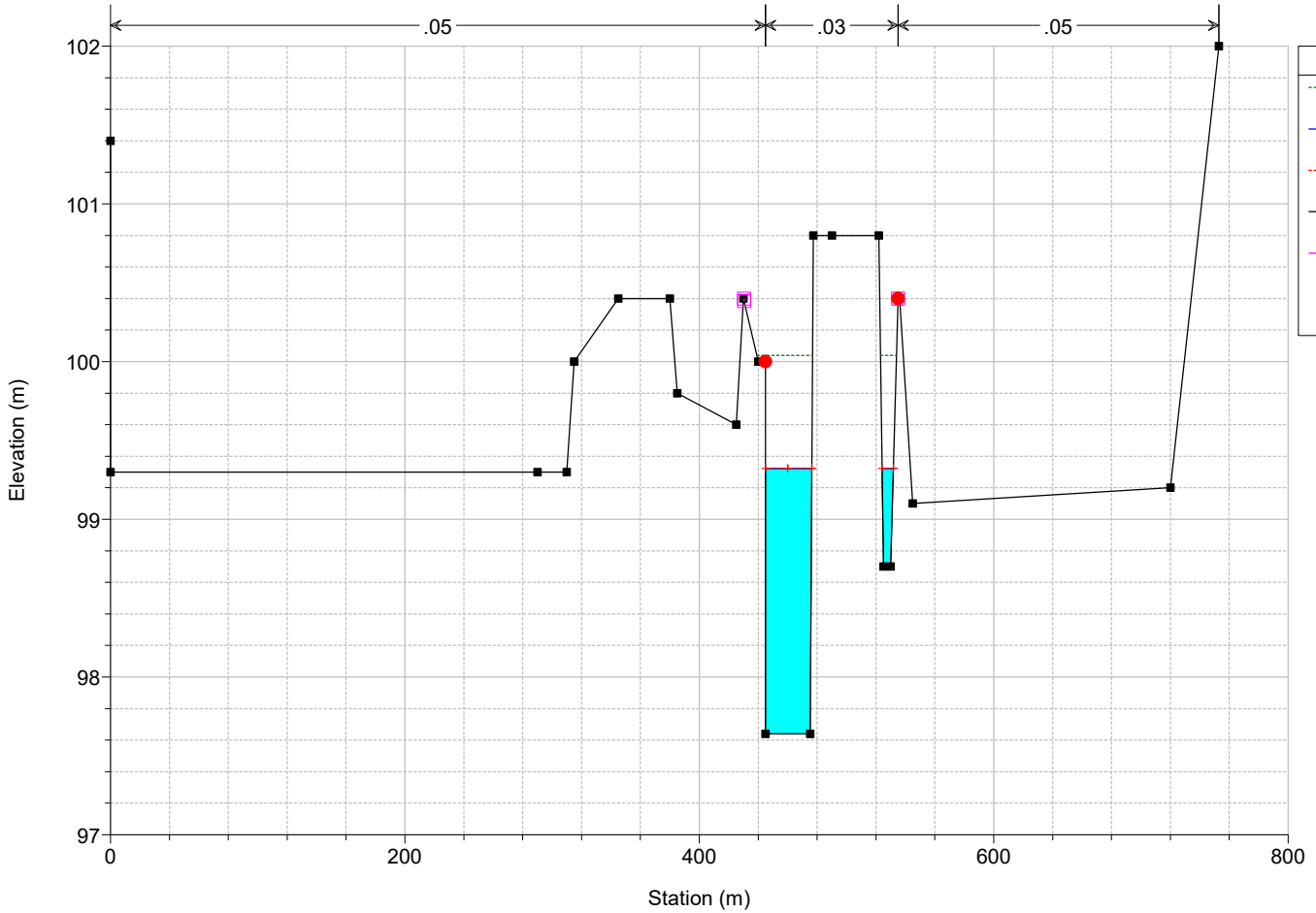
River = Lambro Reach = Sandonato RS = -8.3 IS Traversa di Bolgiano



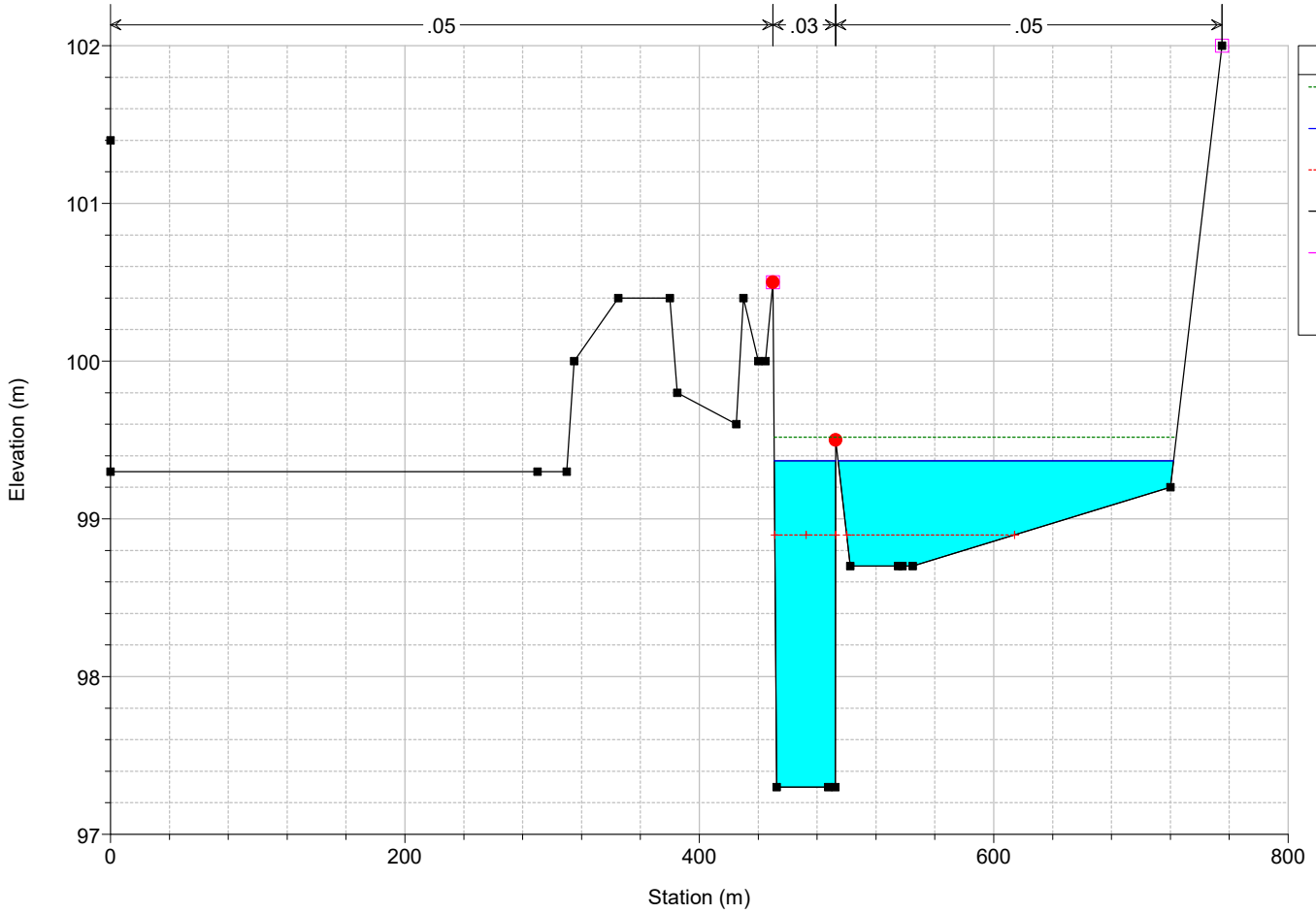
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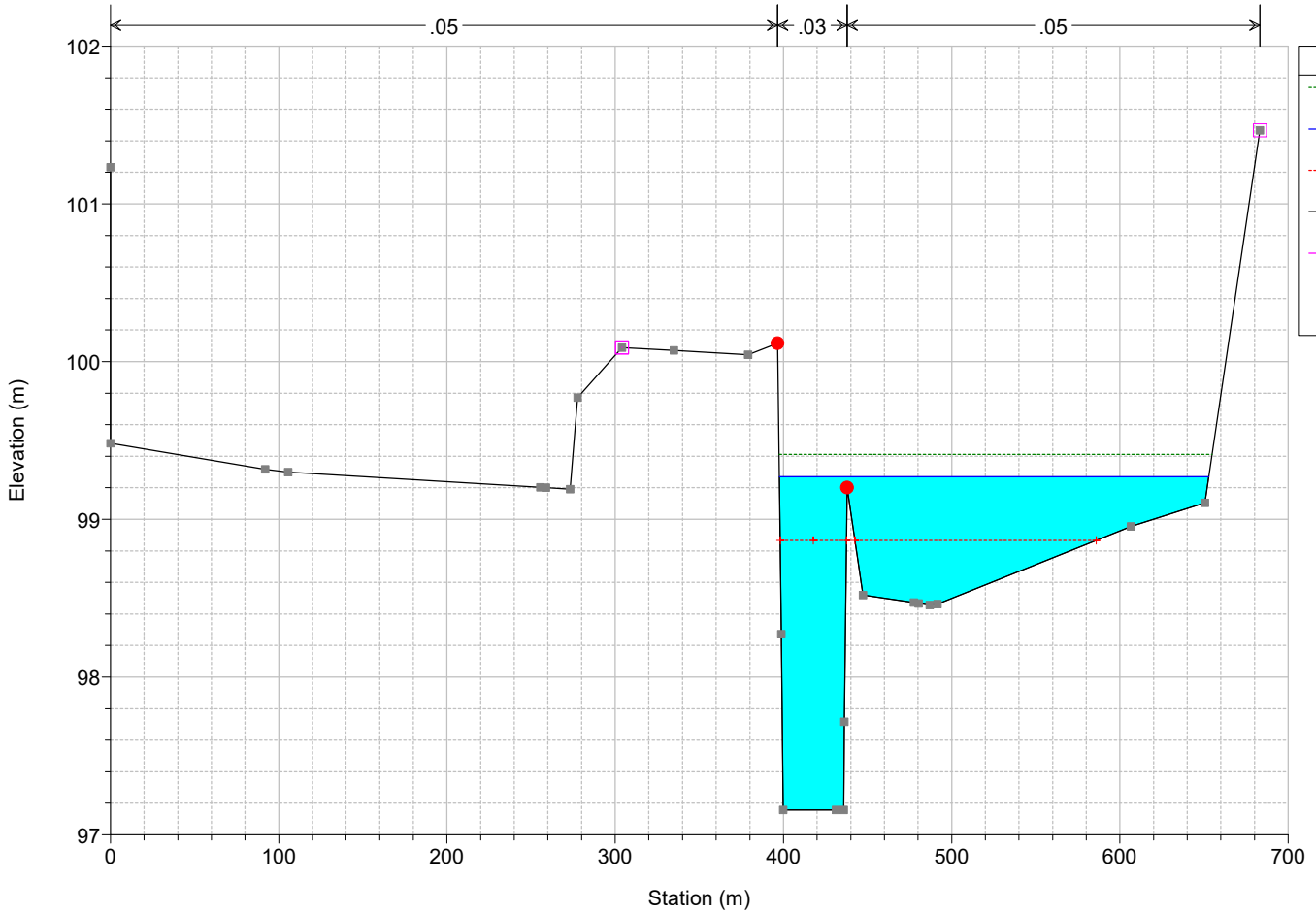
River = Lambro Reach = Sandonato RS = -9



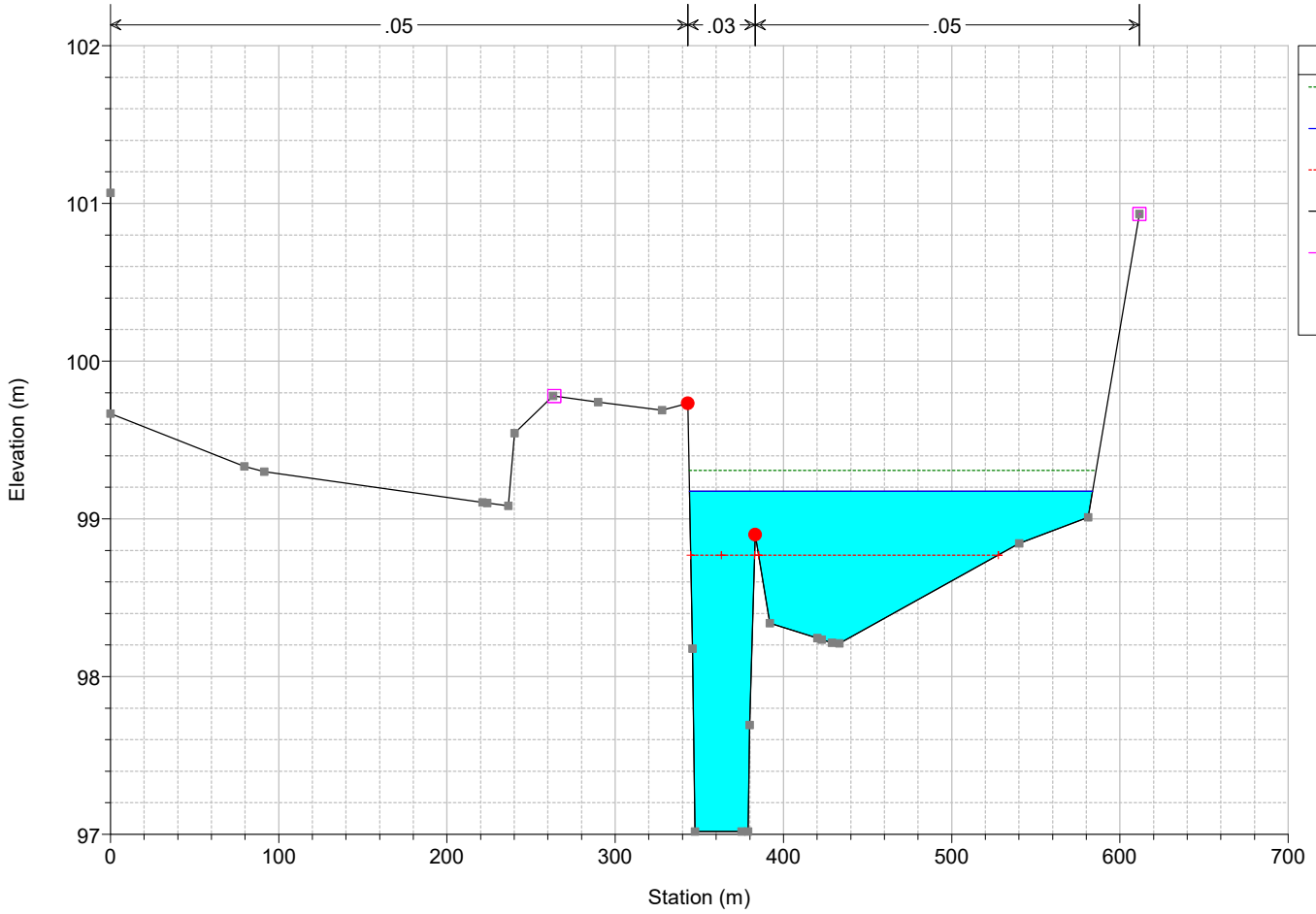
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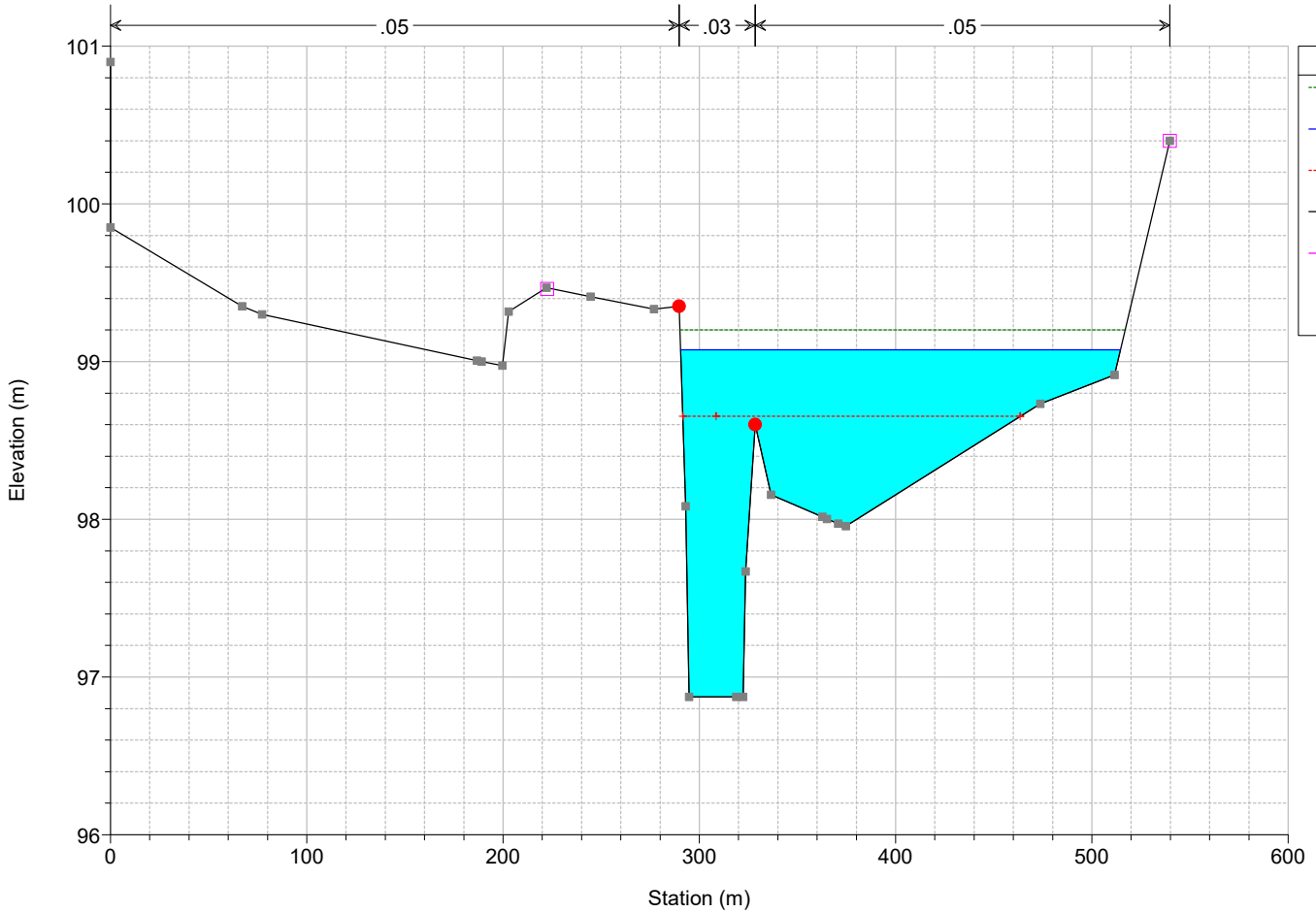
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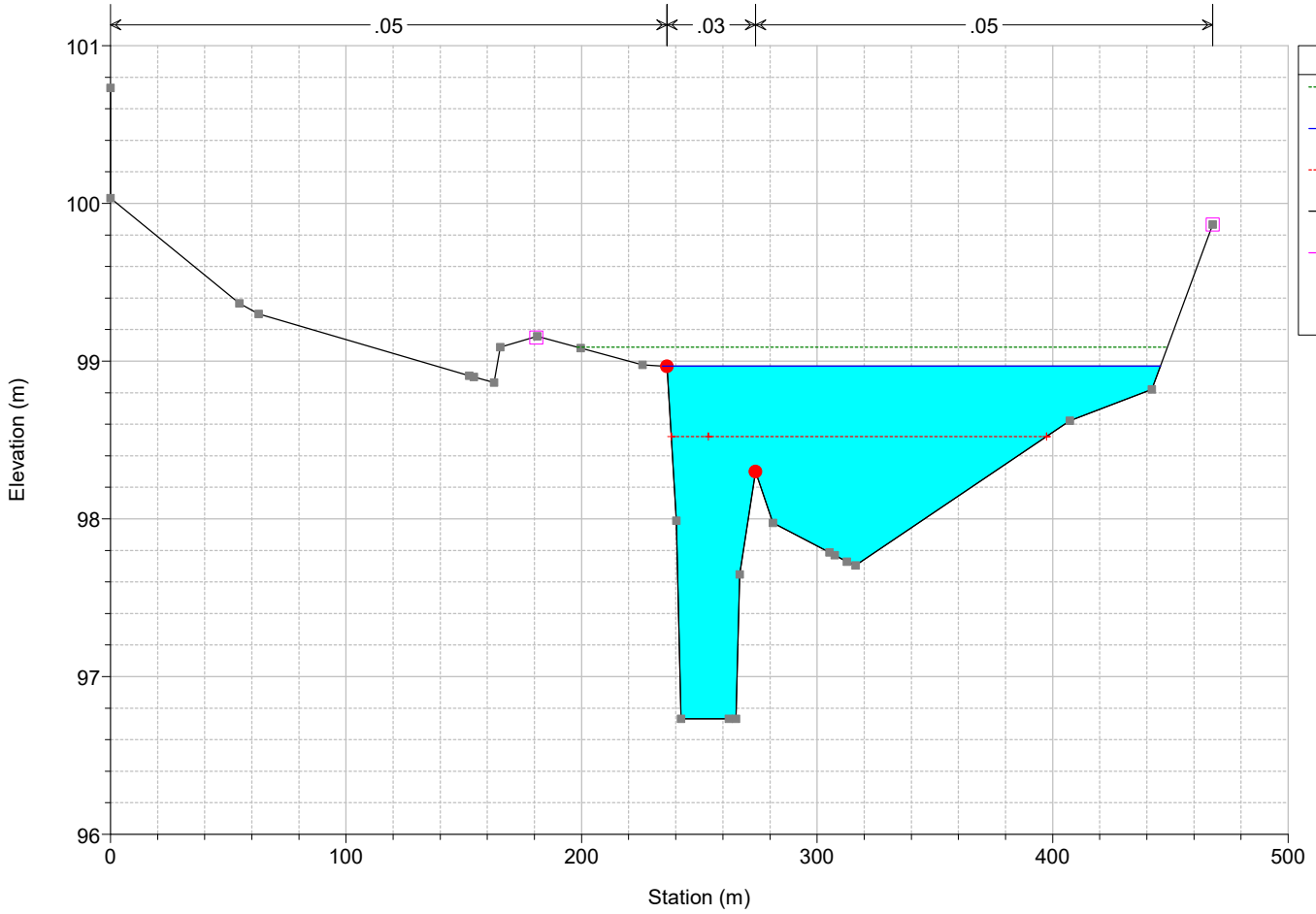
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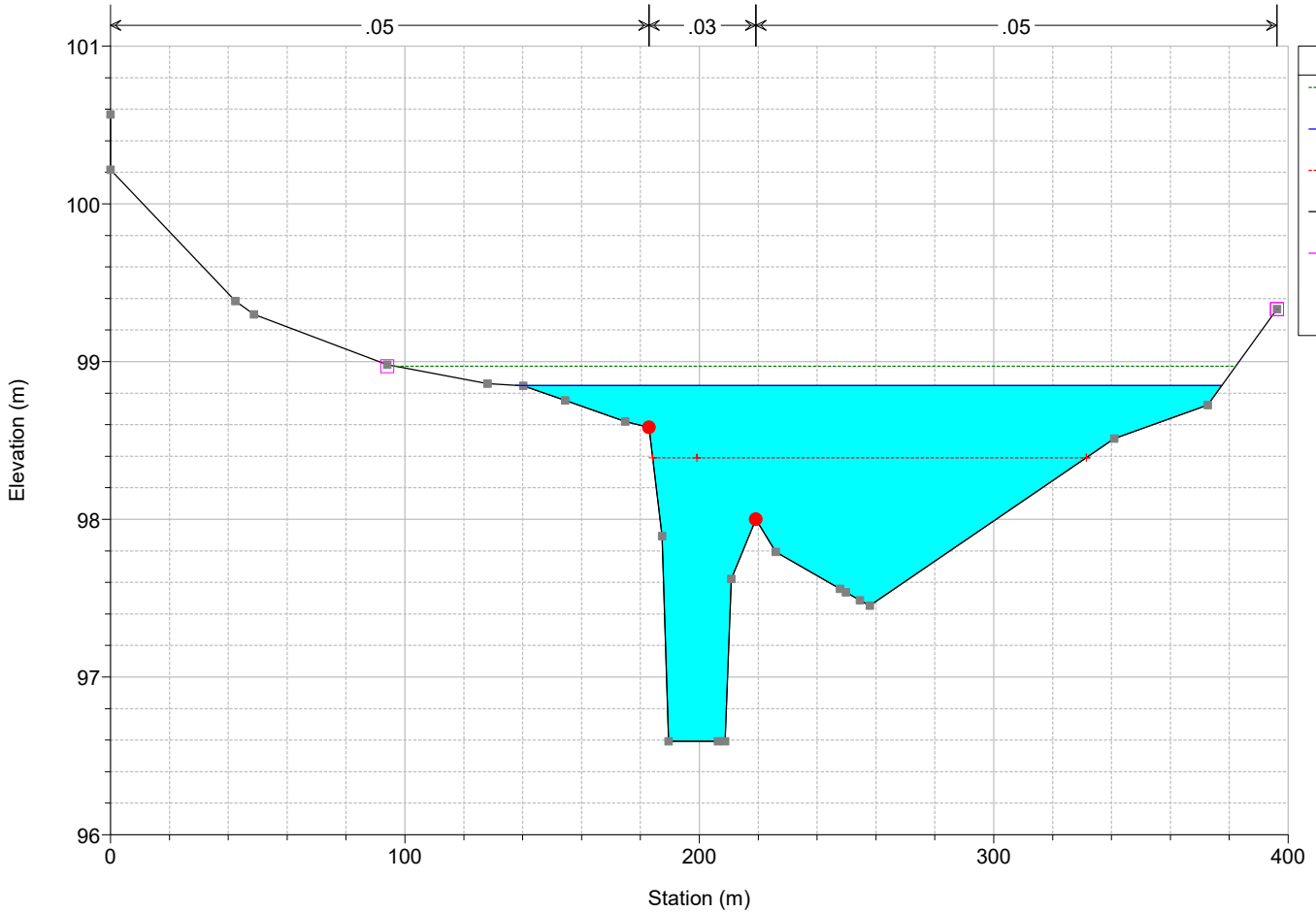
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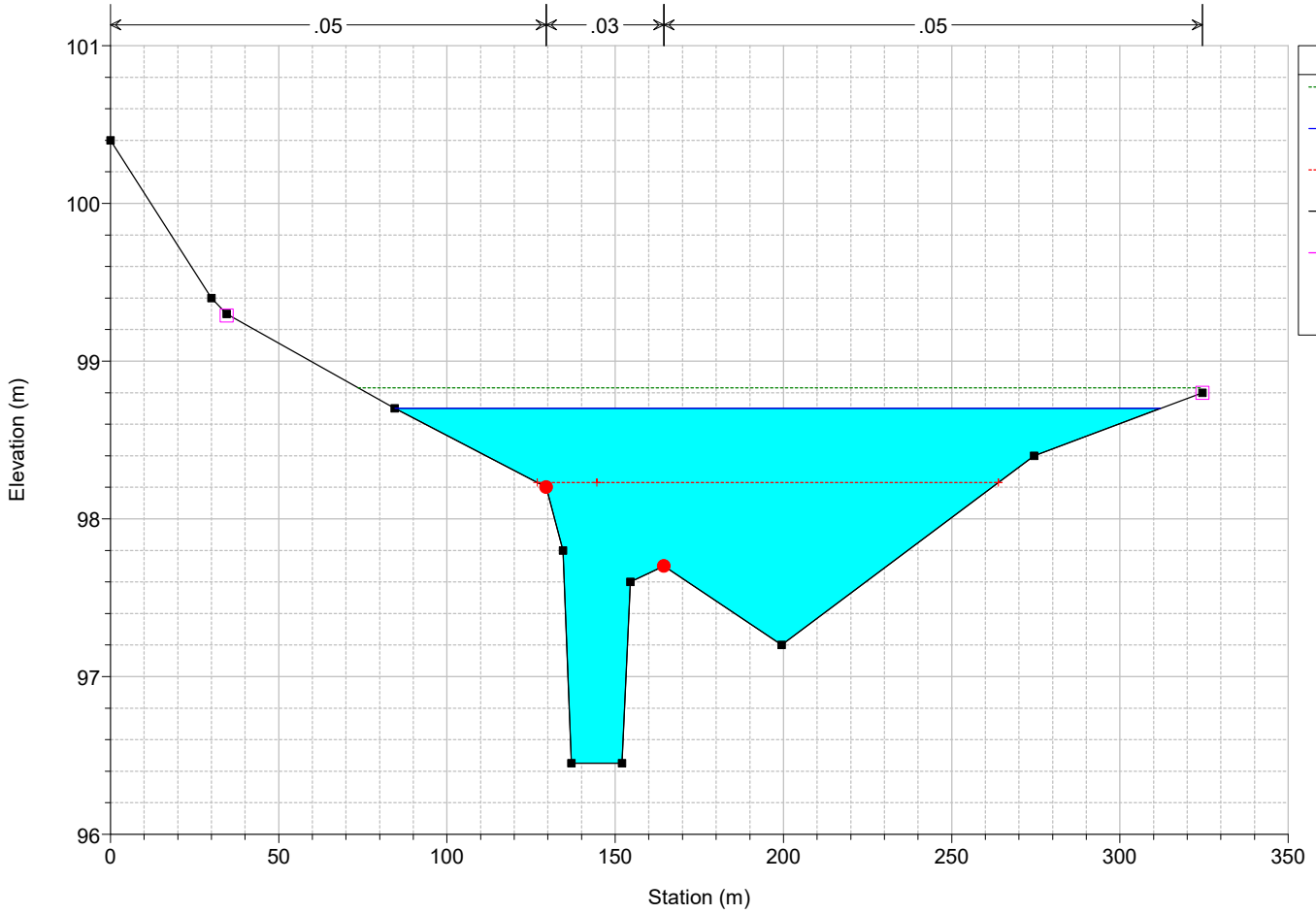
River = Lambro Reach = Sandonato RS = -9.7000*



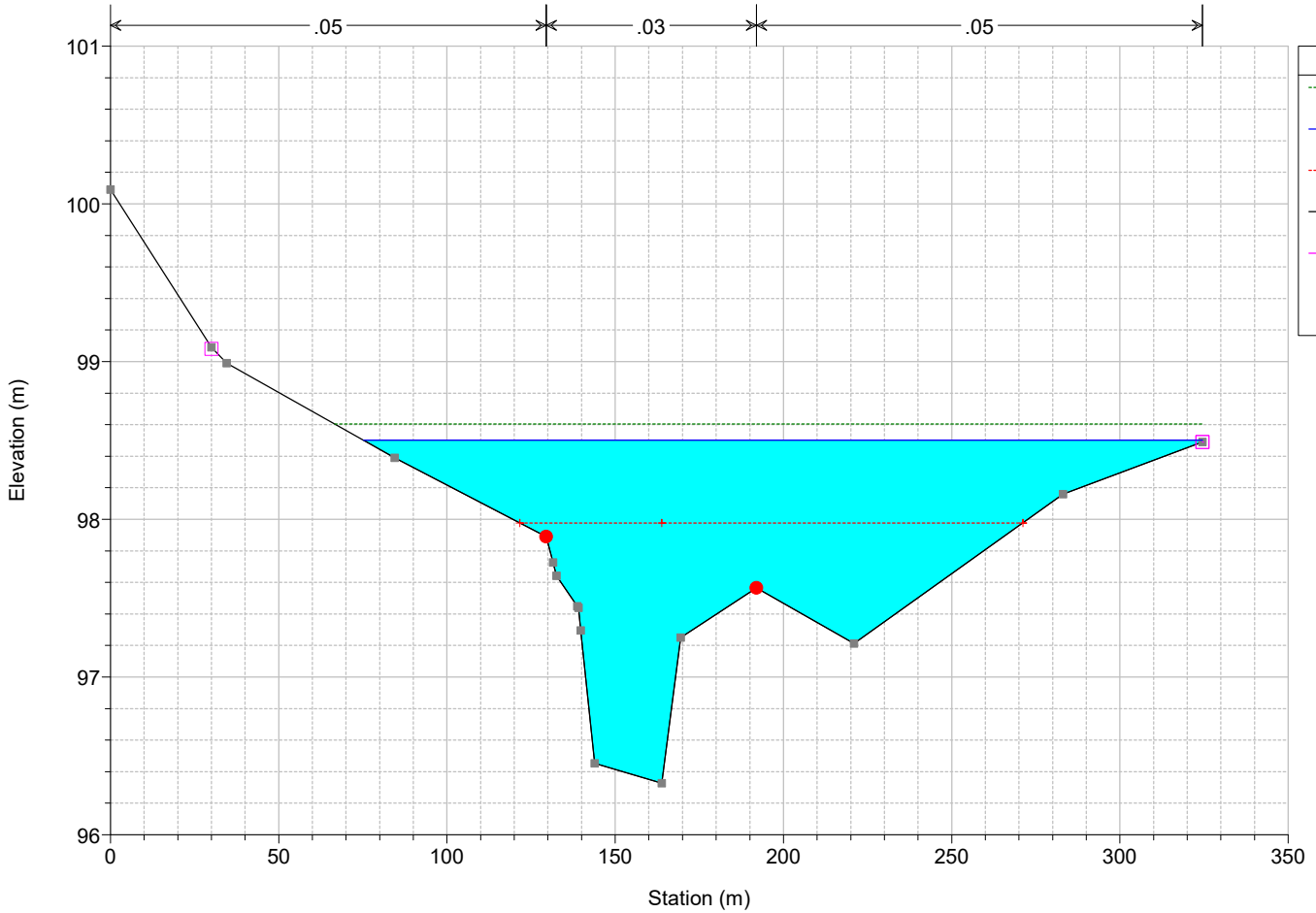
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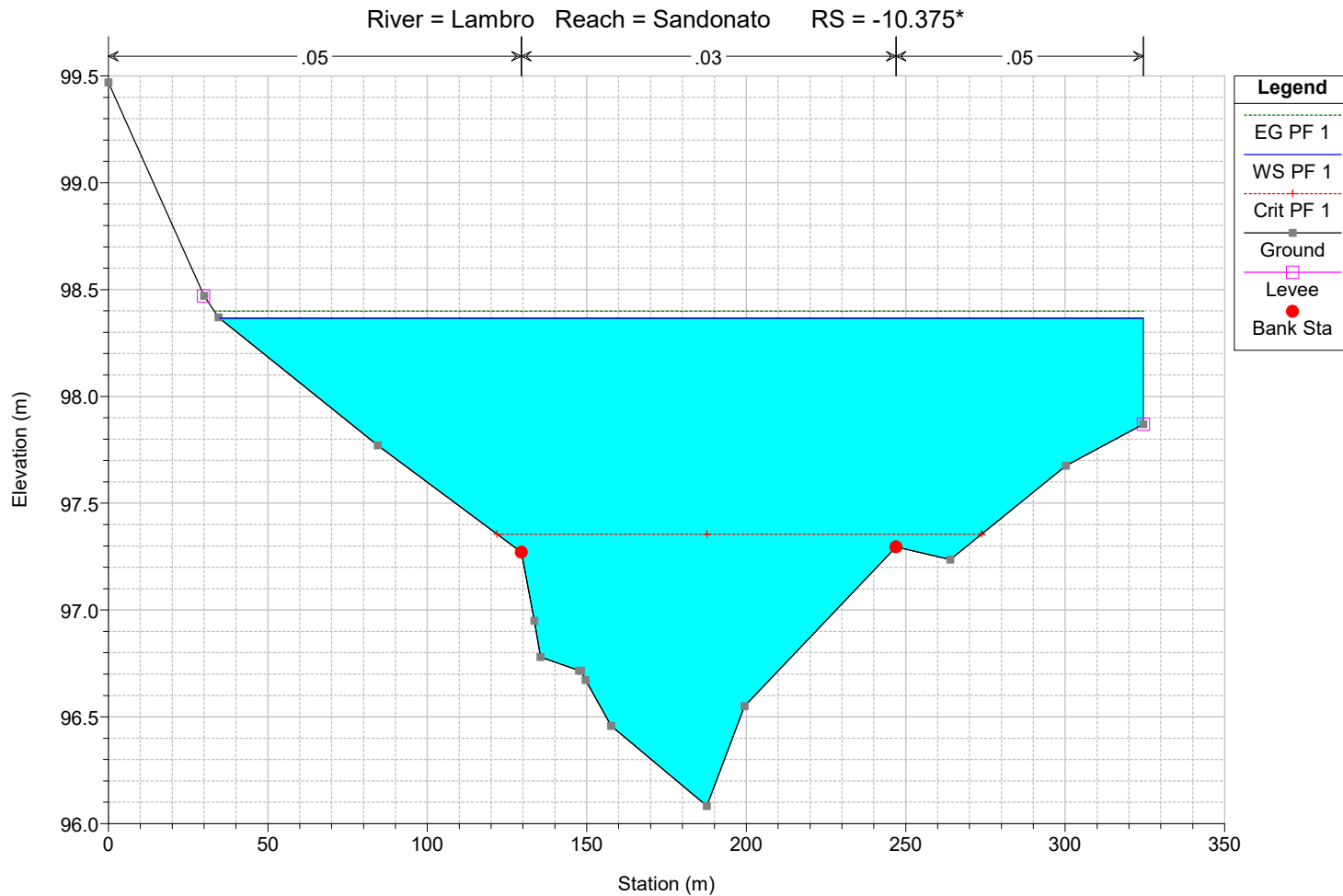
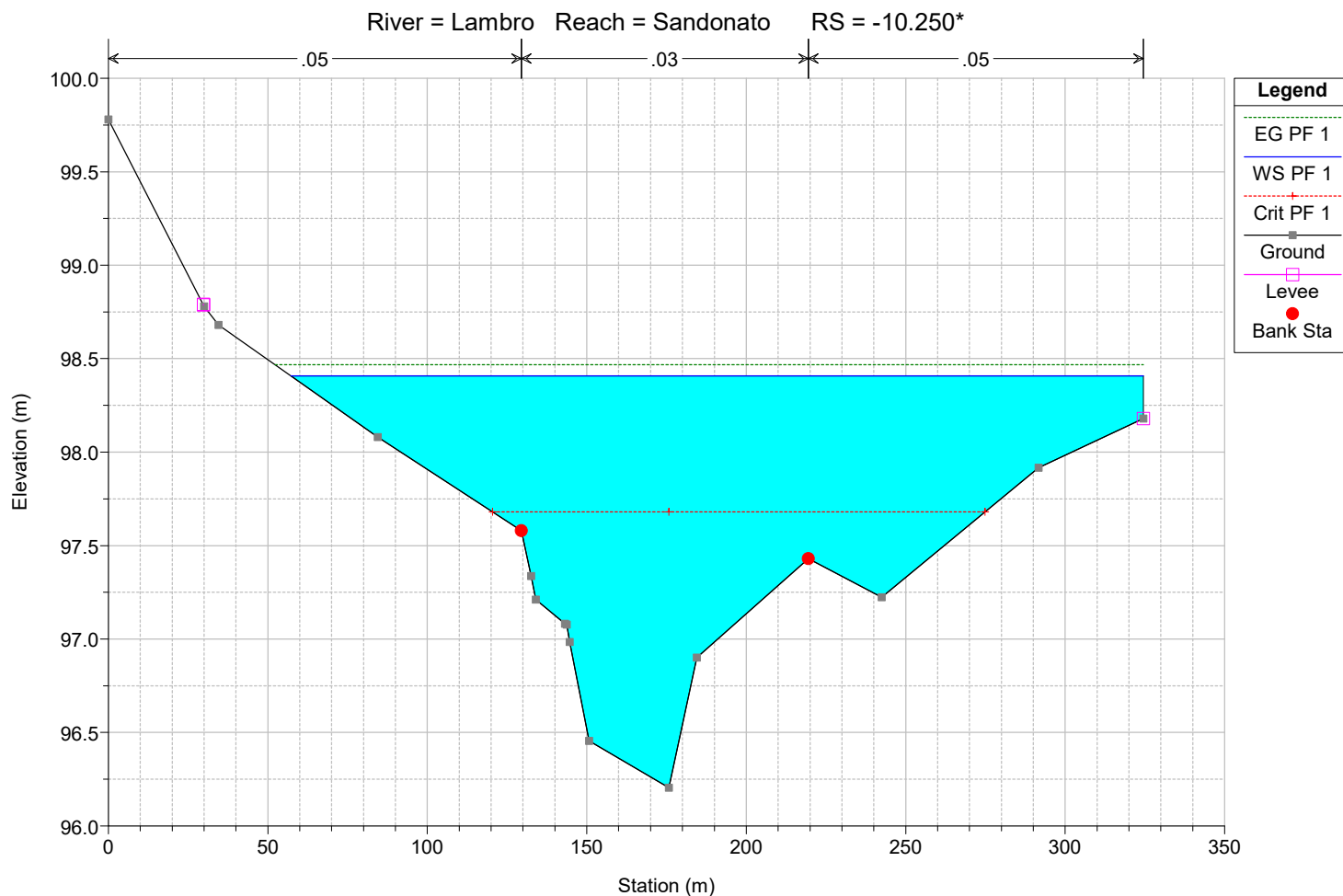


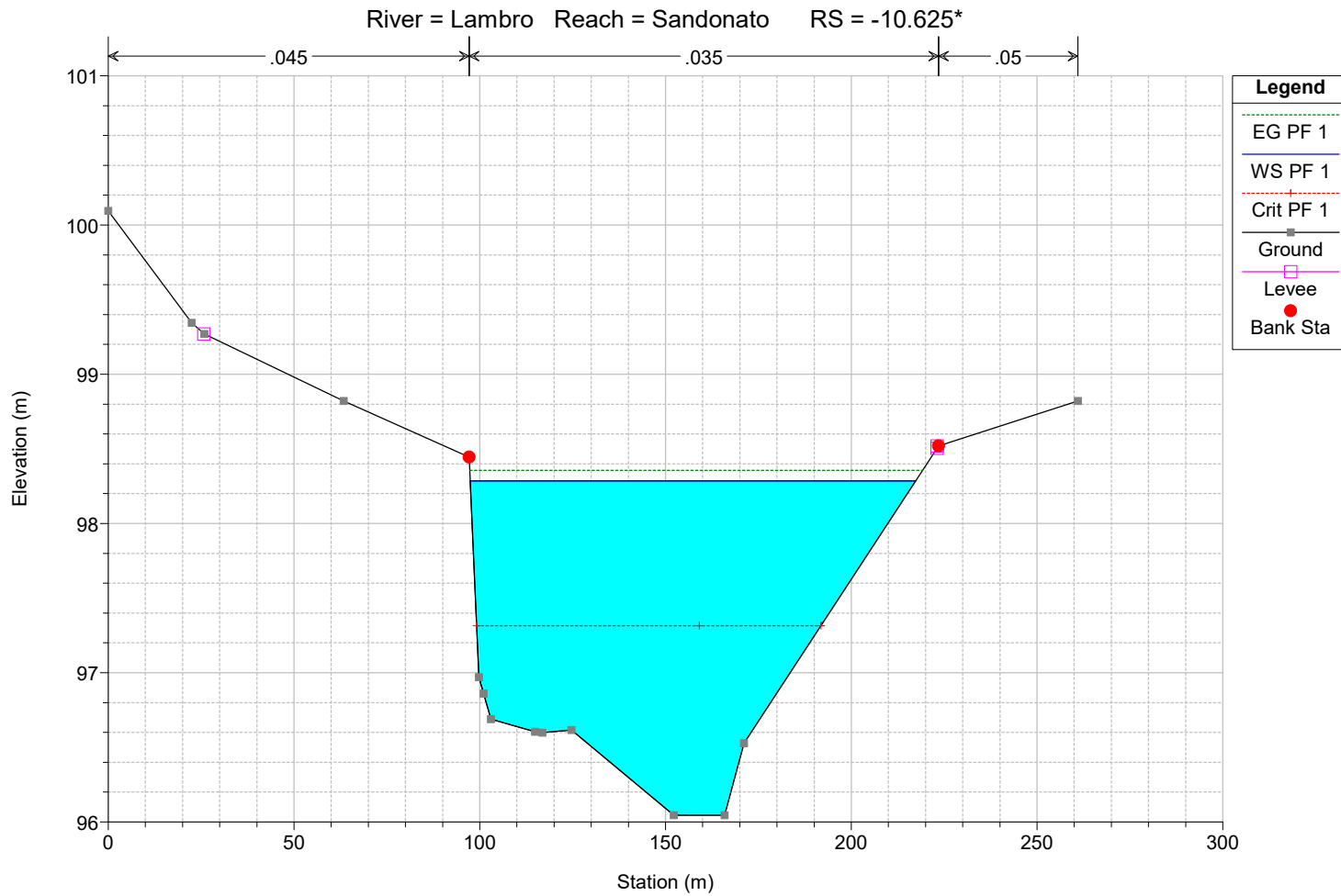
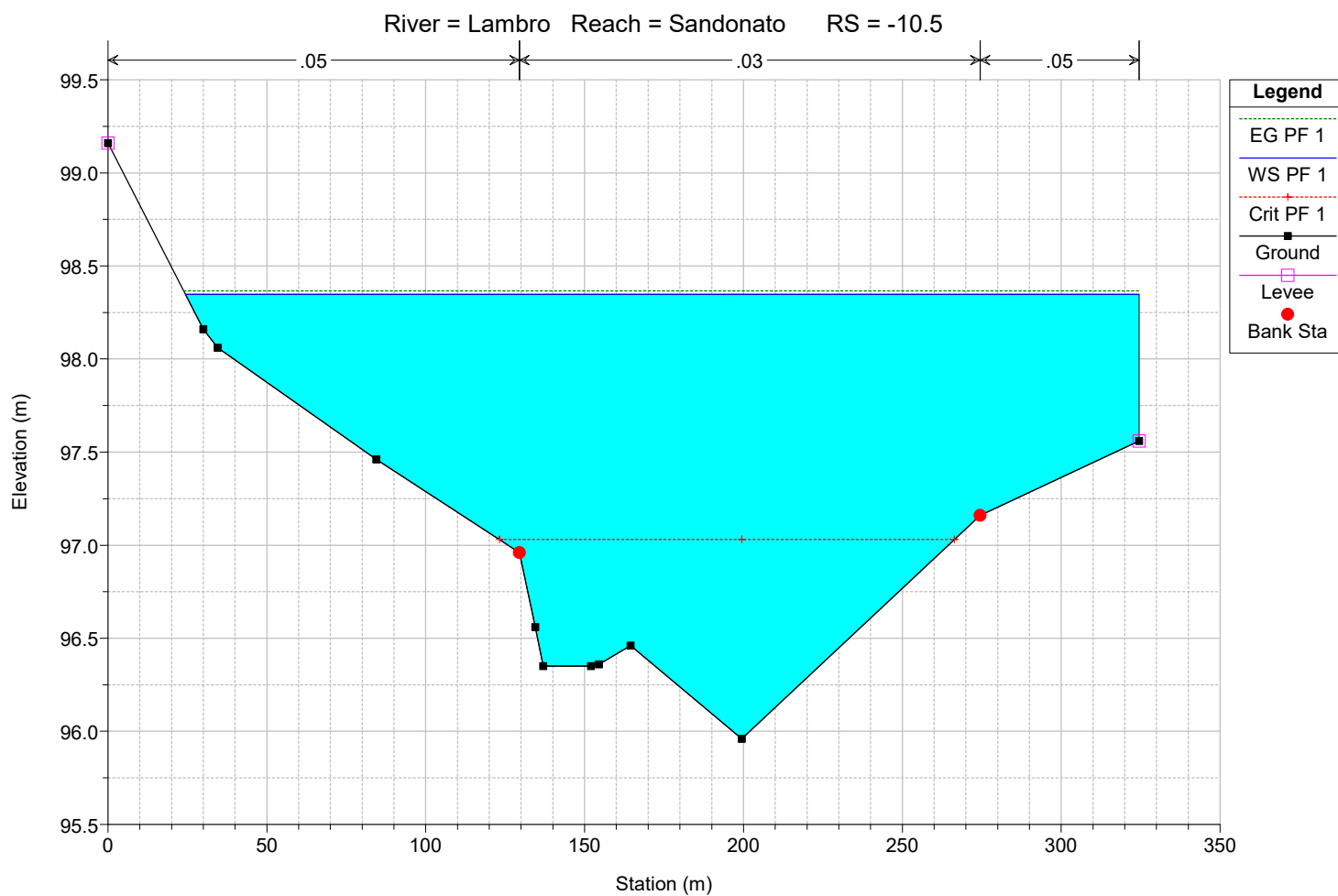
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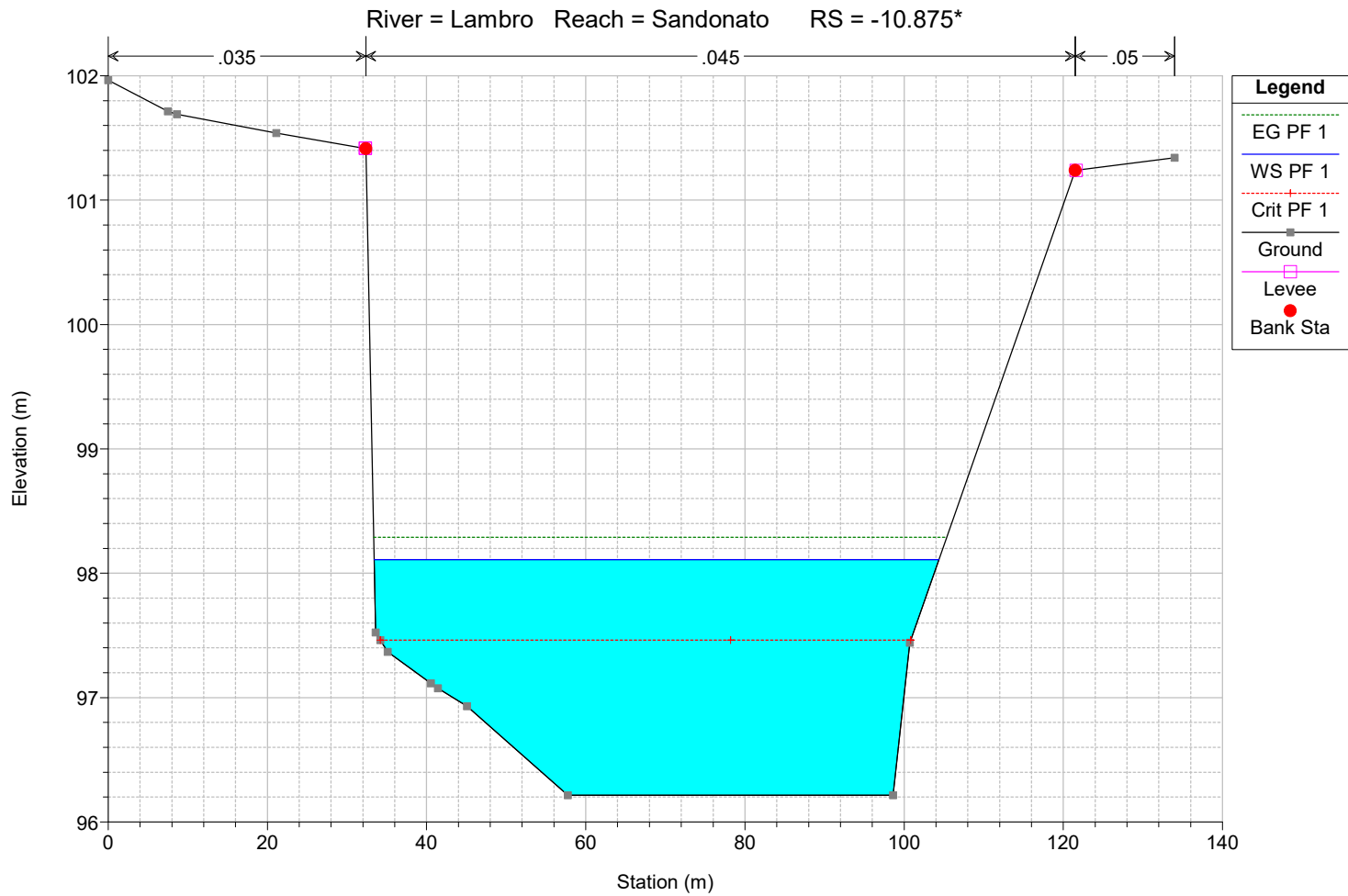
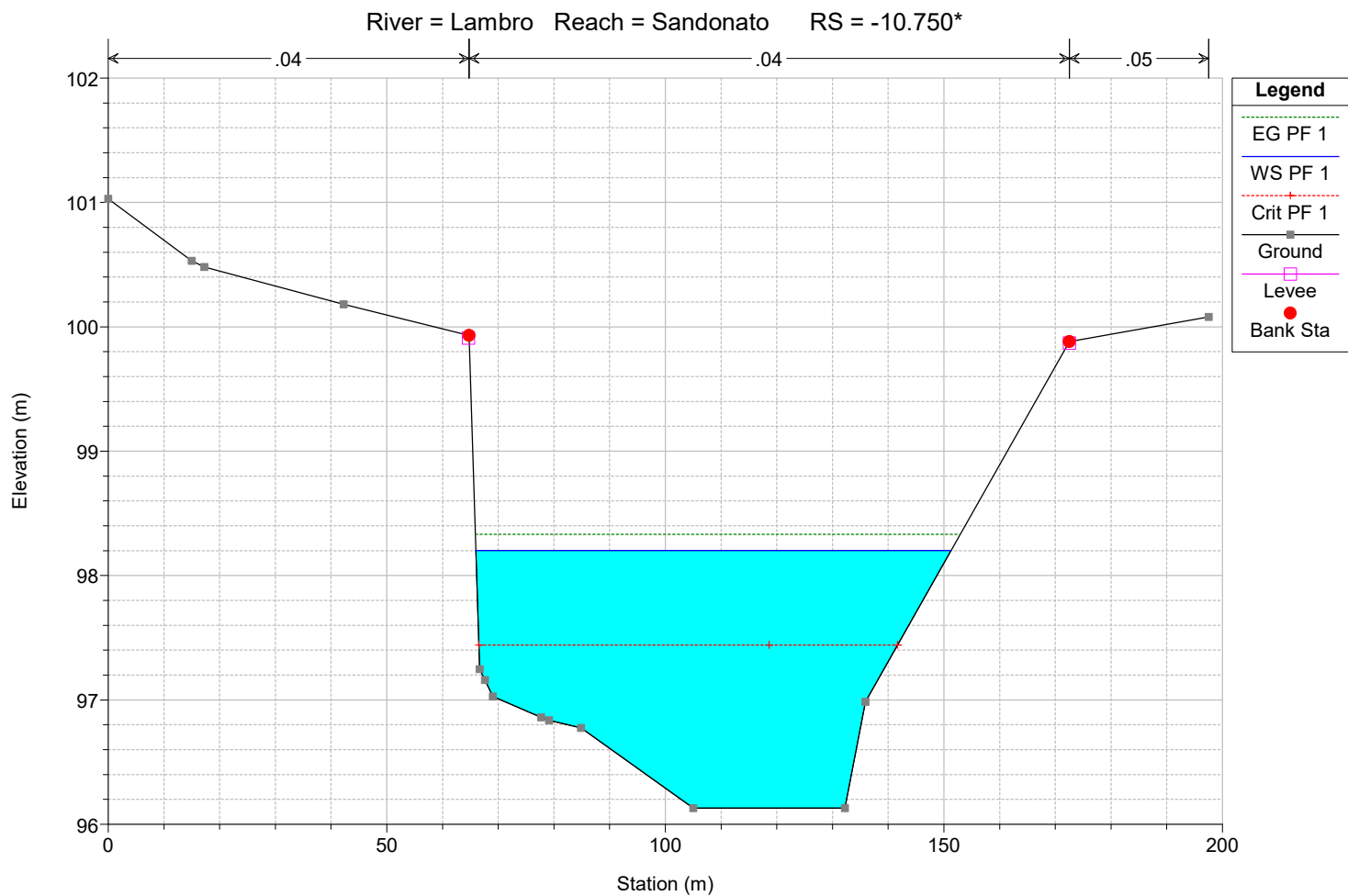


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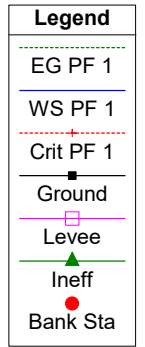
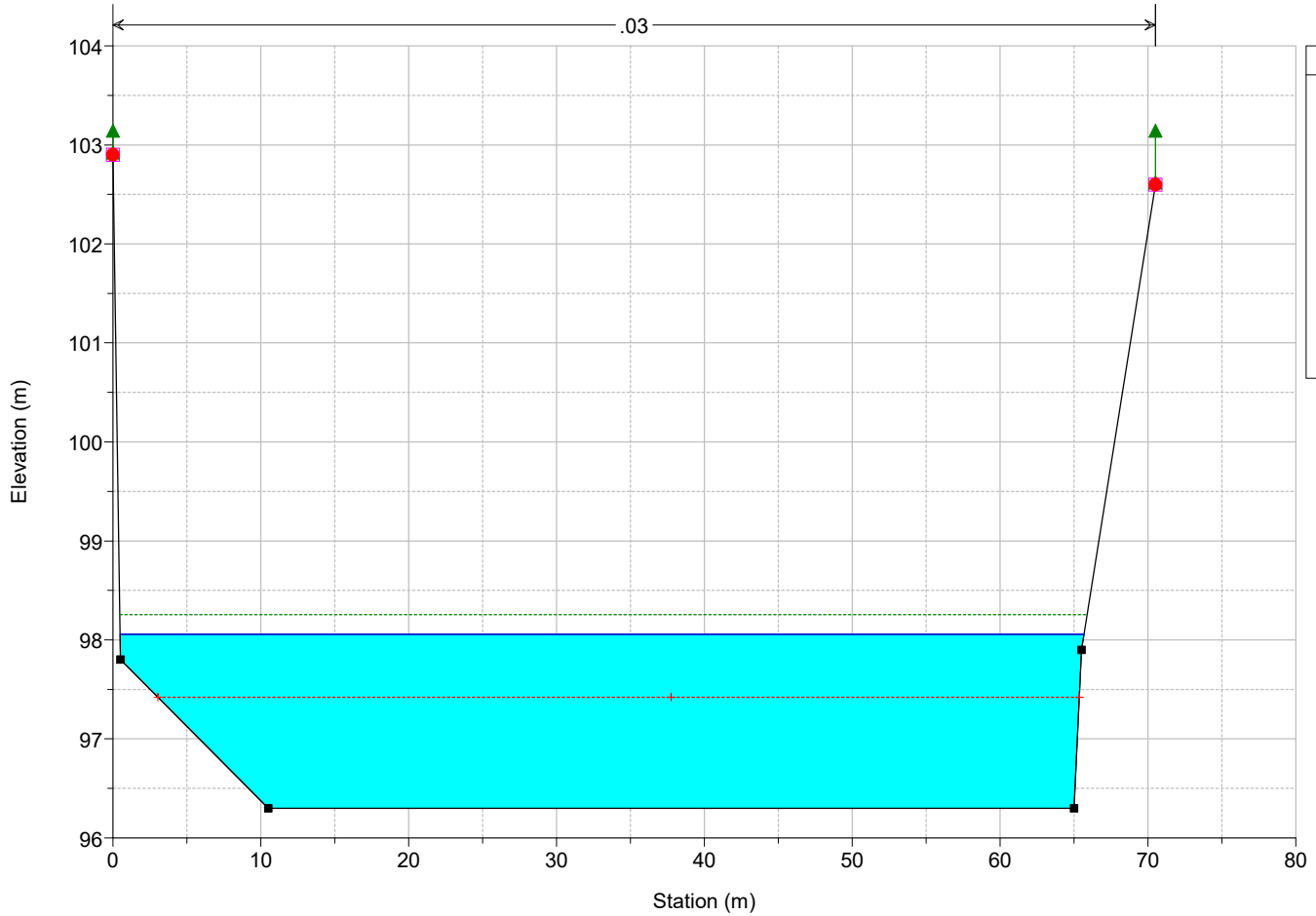




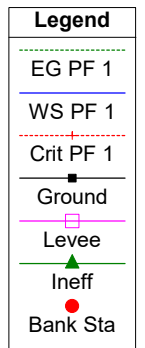
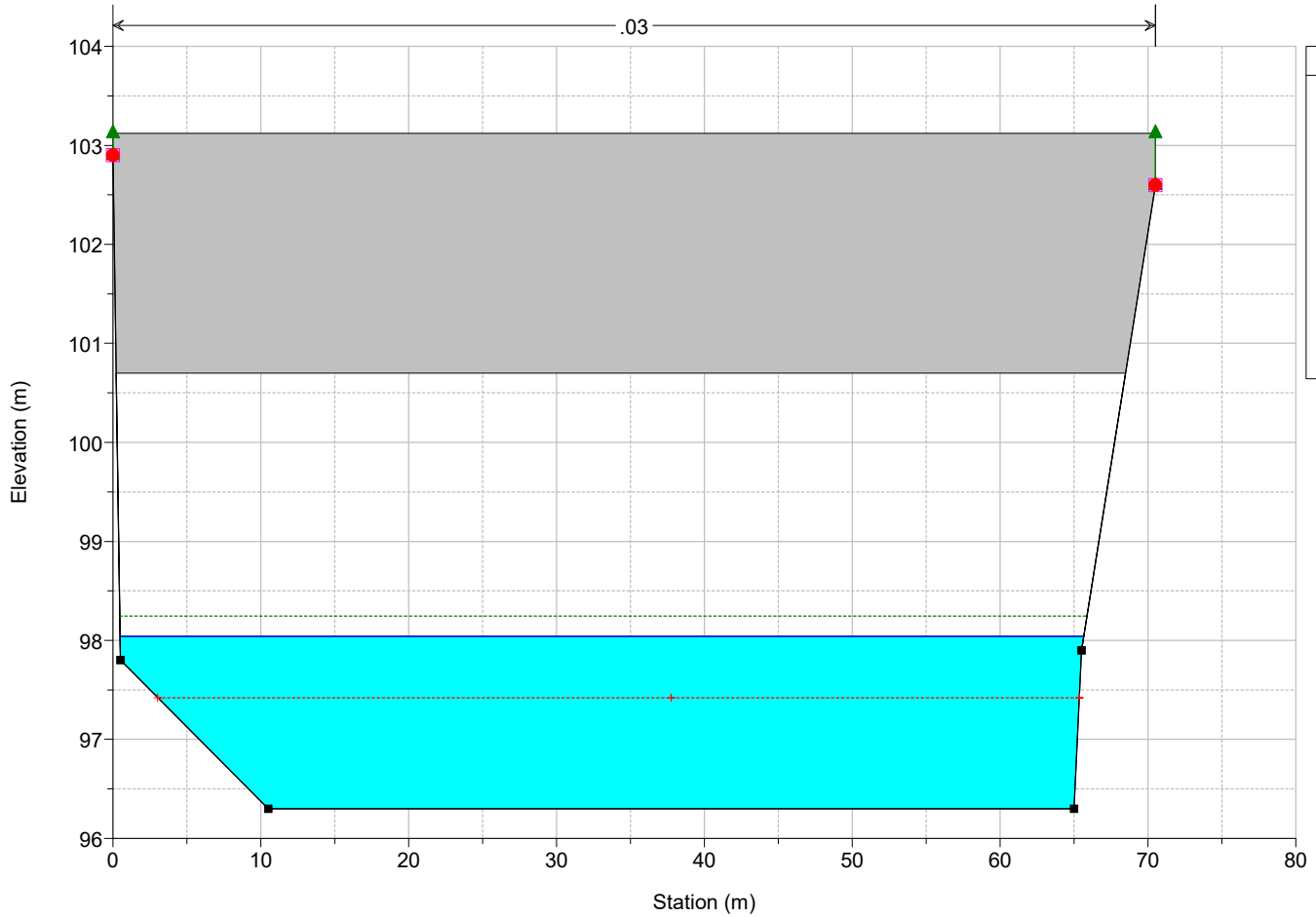




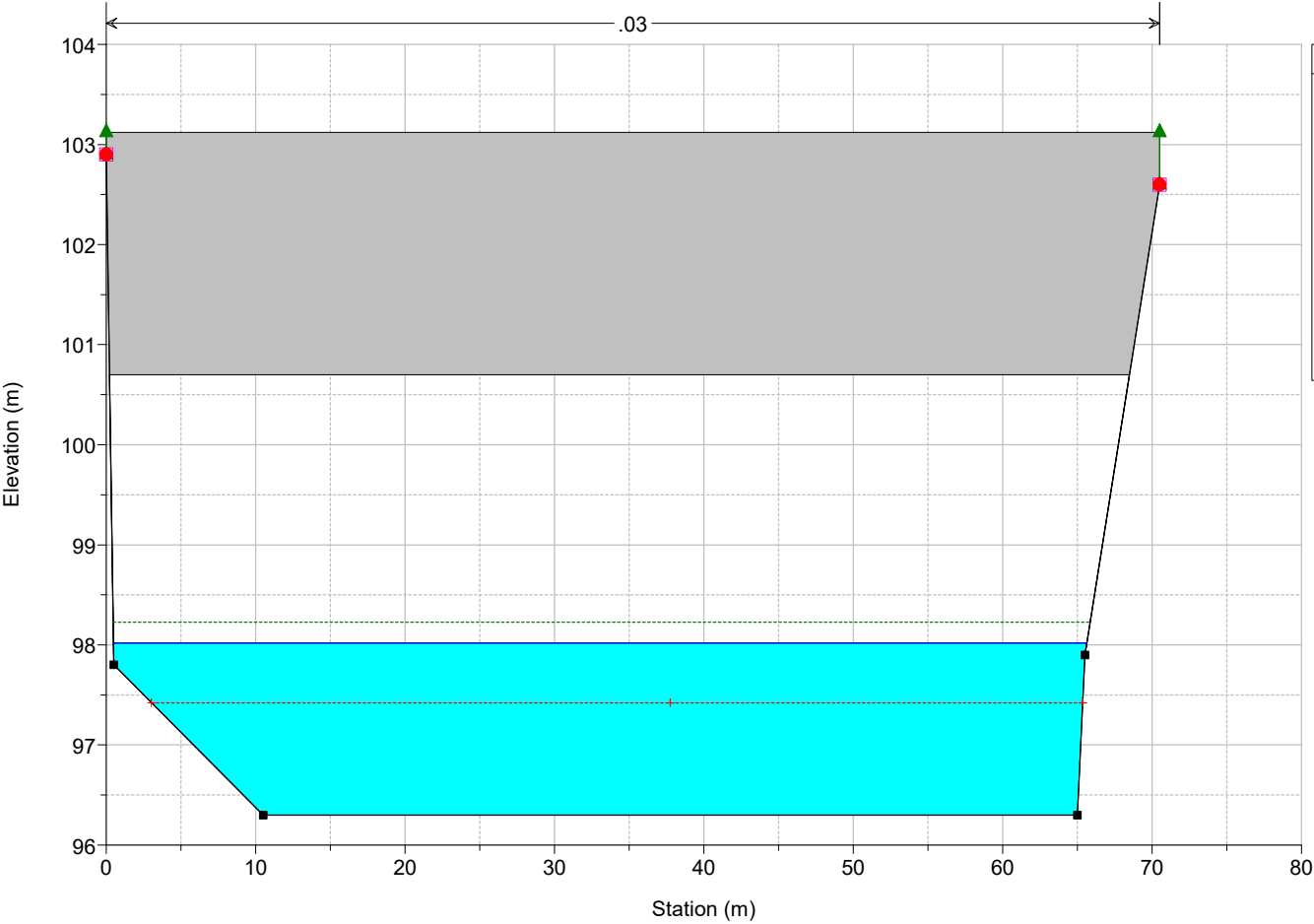
River = Lambro Reach = Sandonato RS = -11 Ponte SS 415



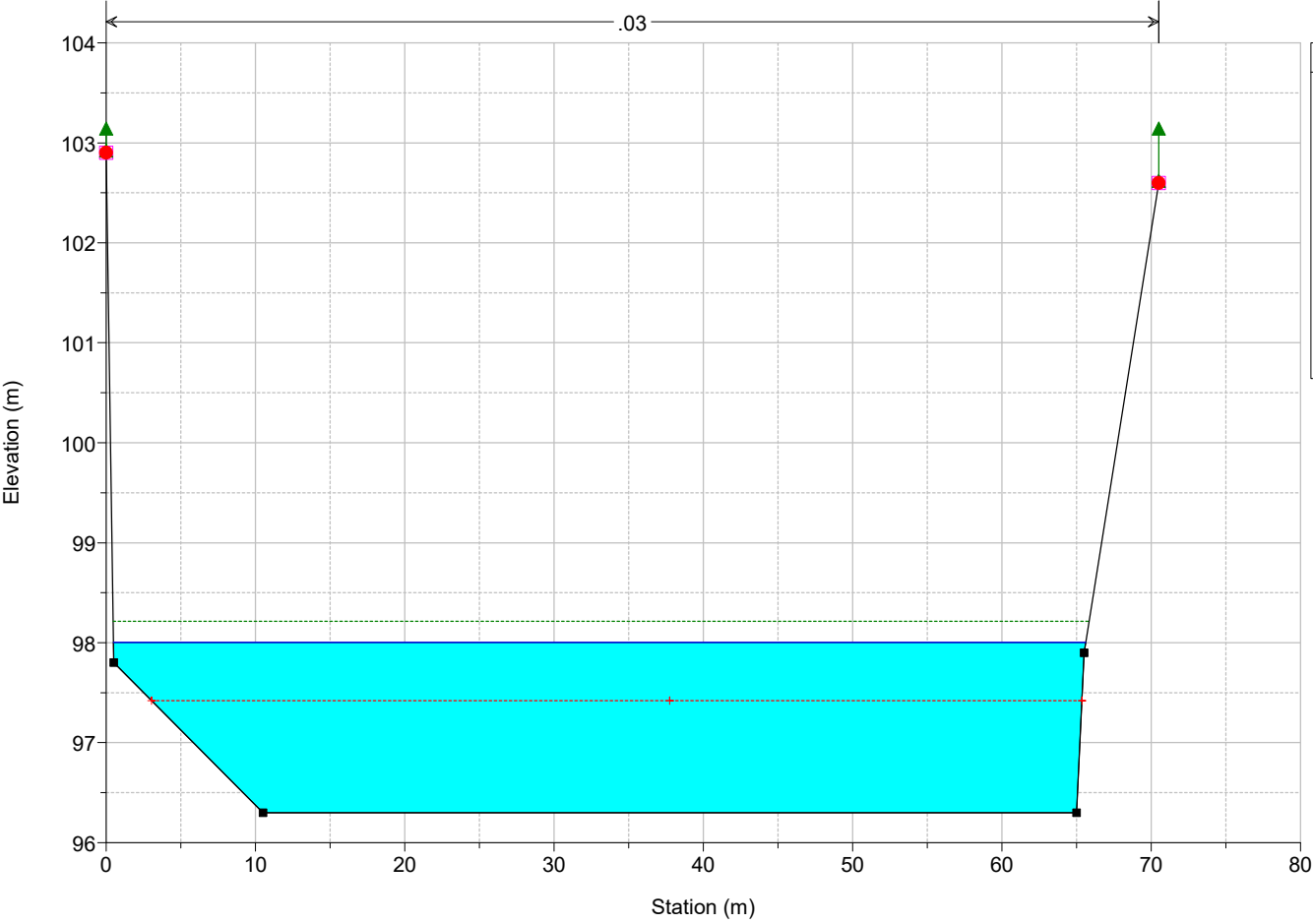
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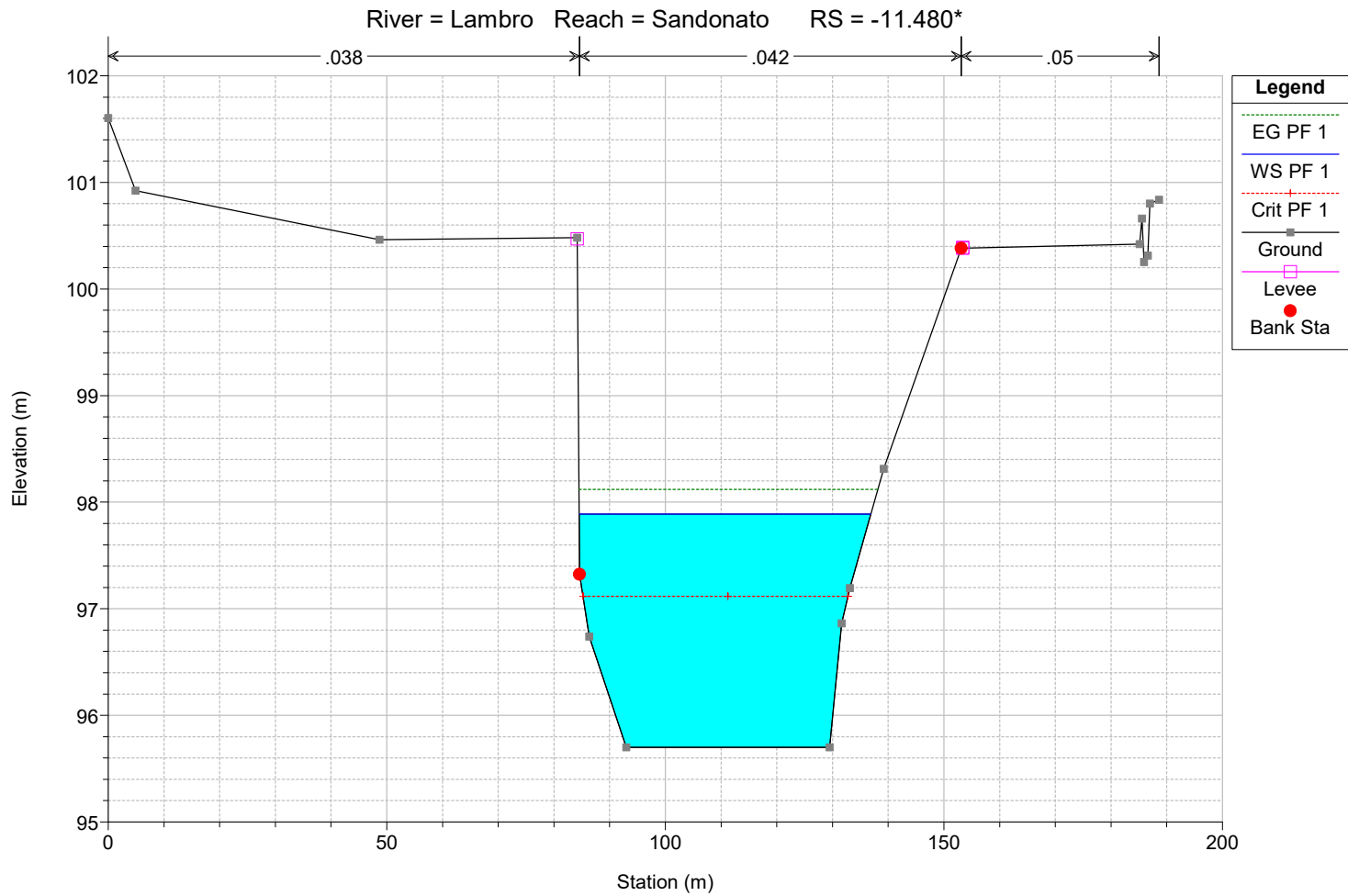
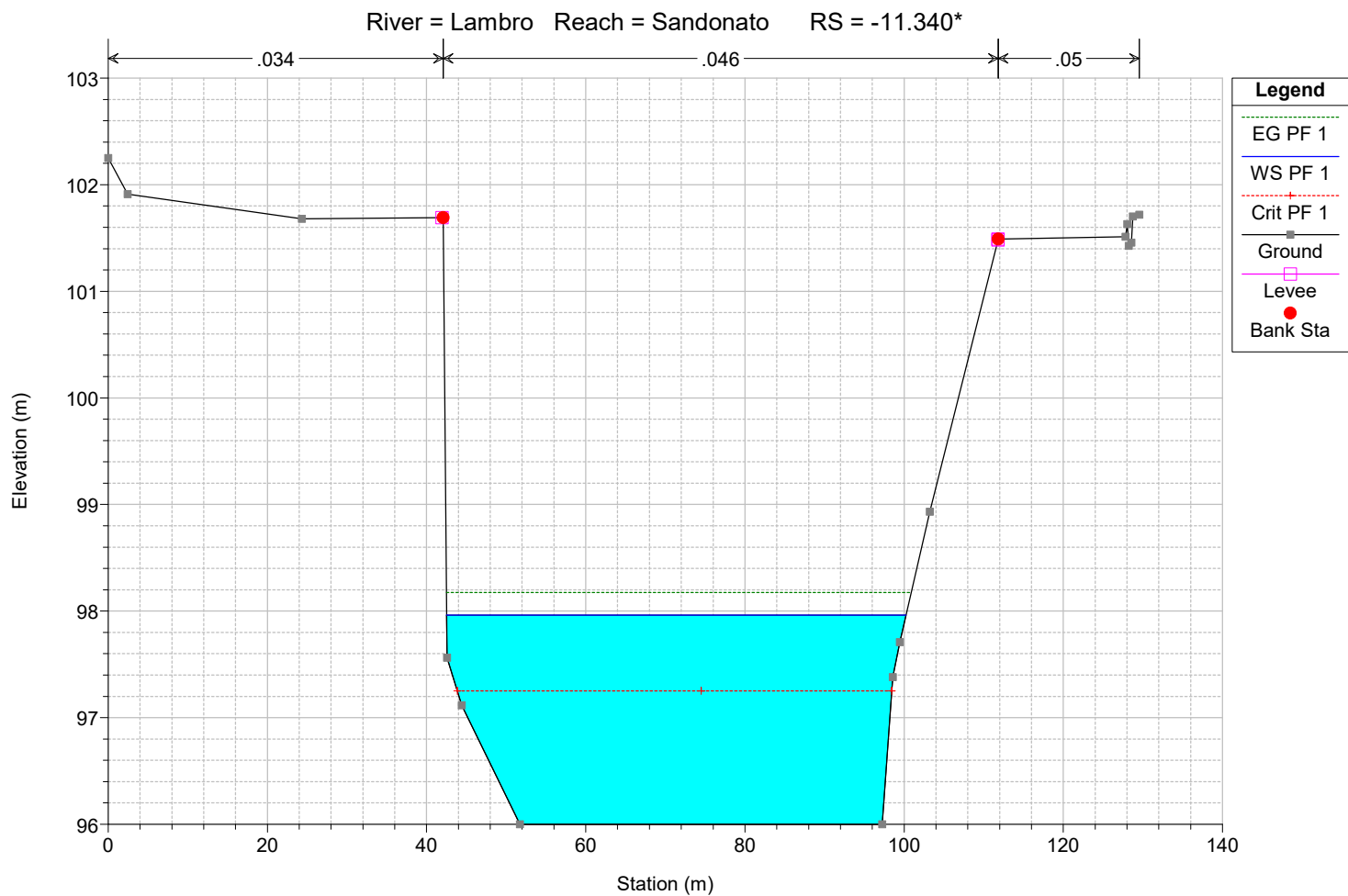


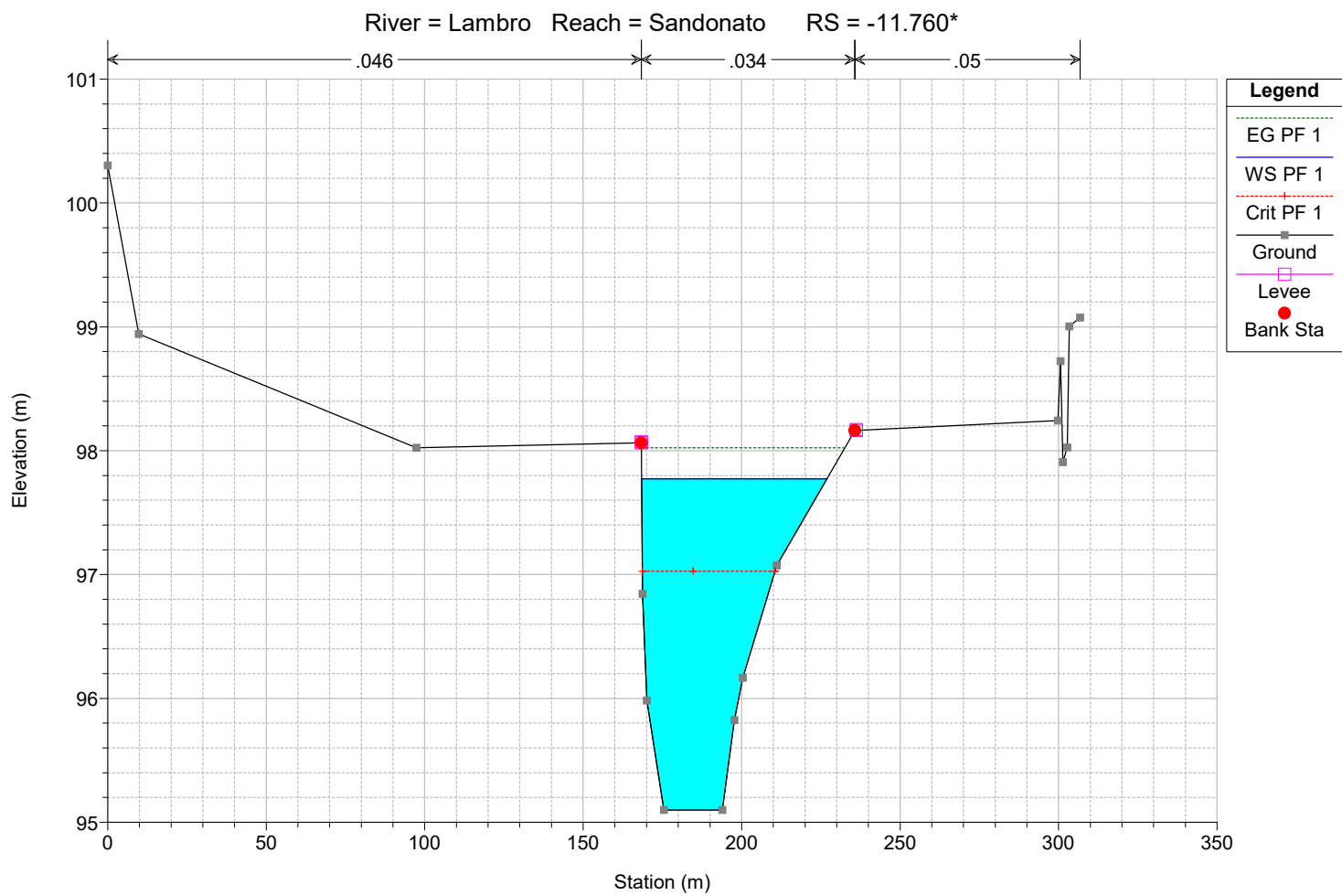
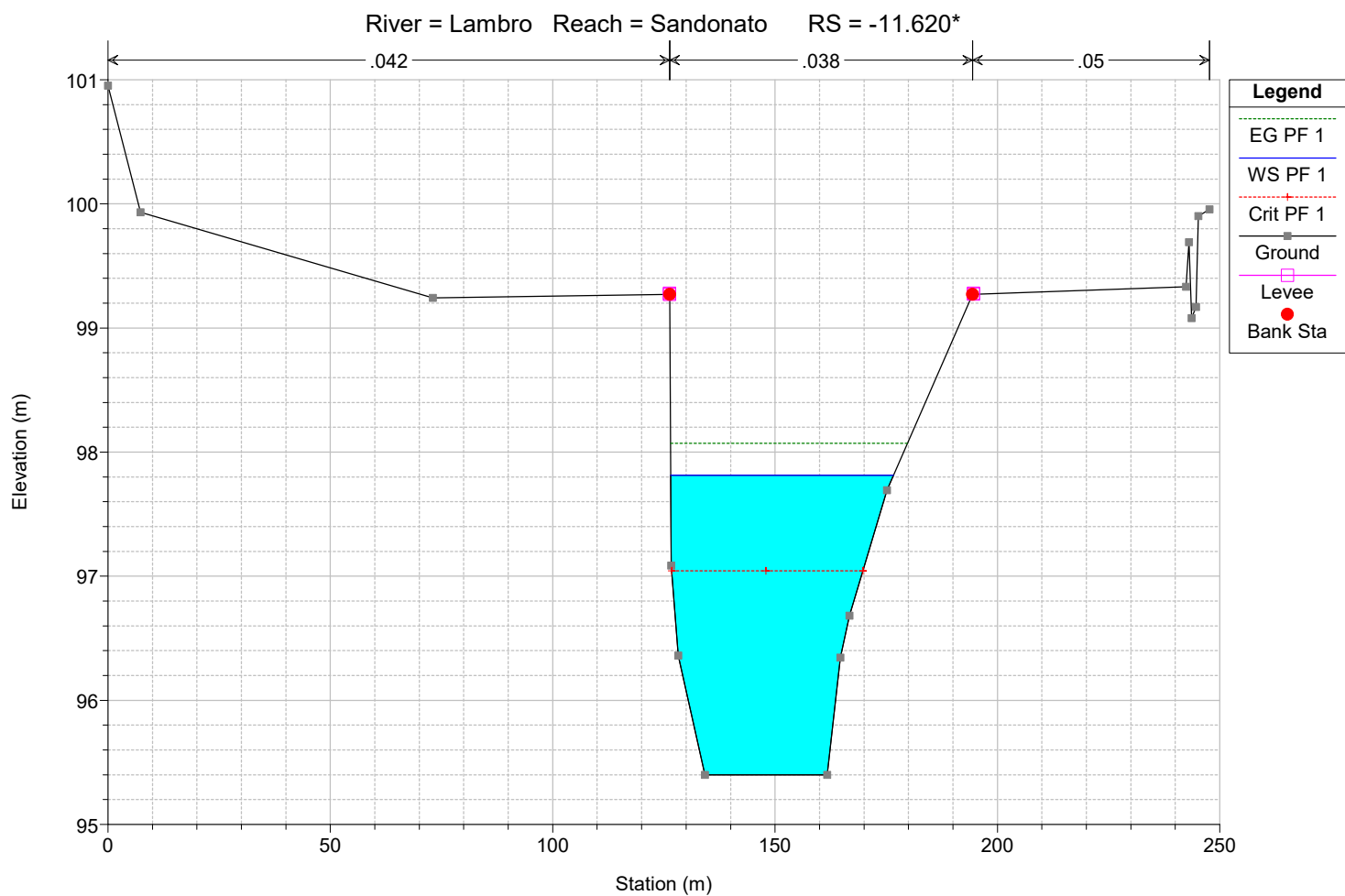
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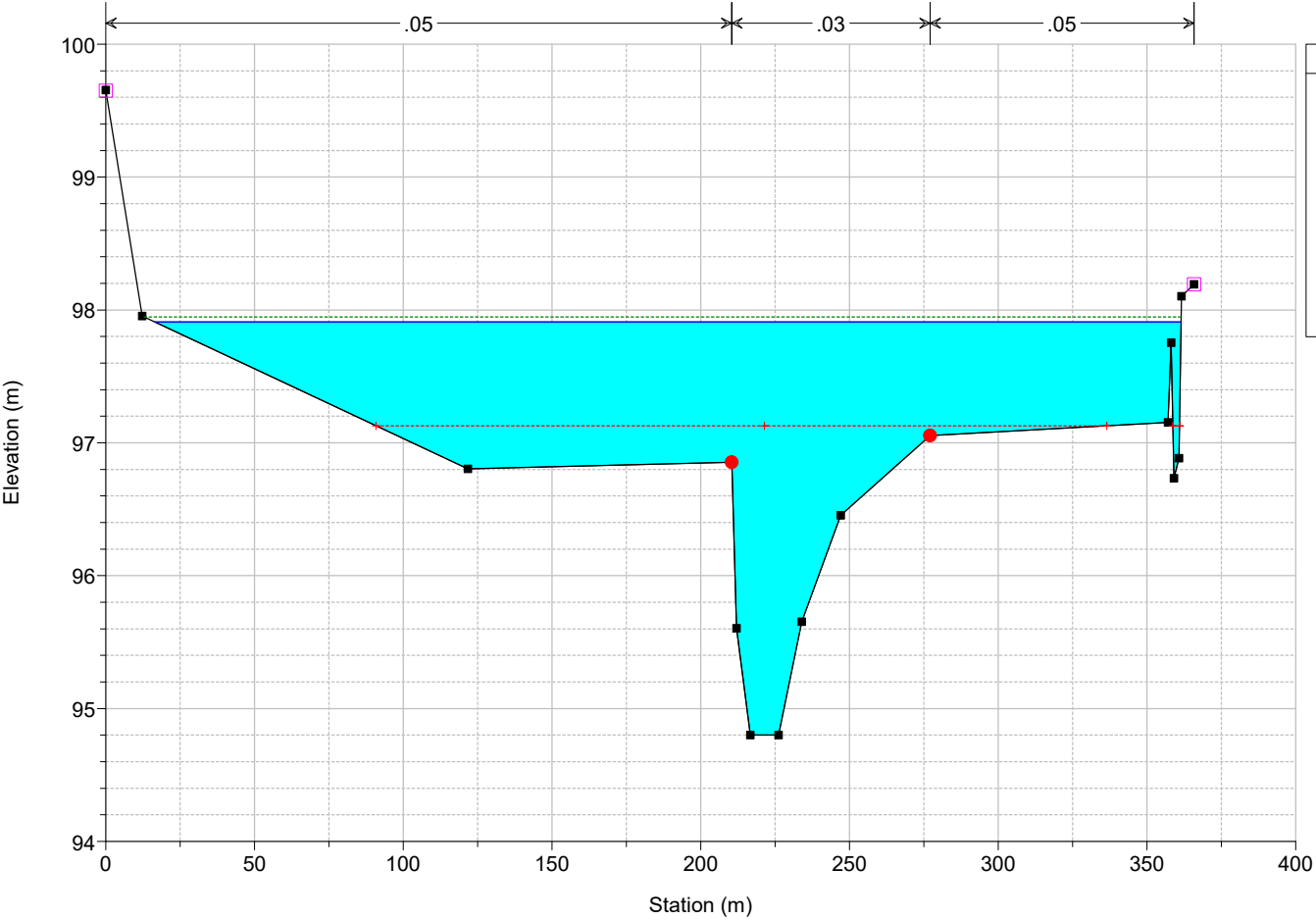
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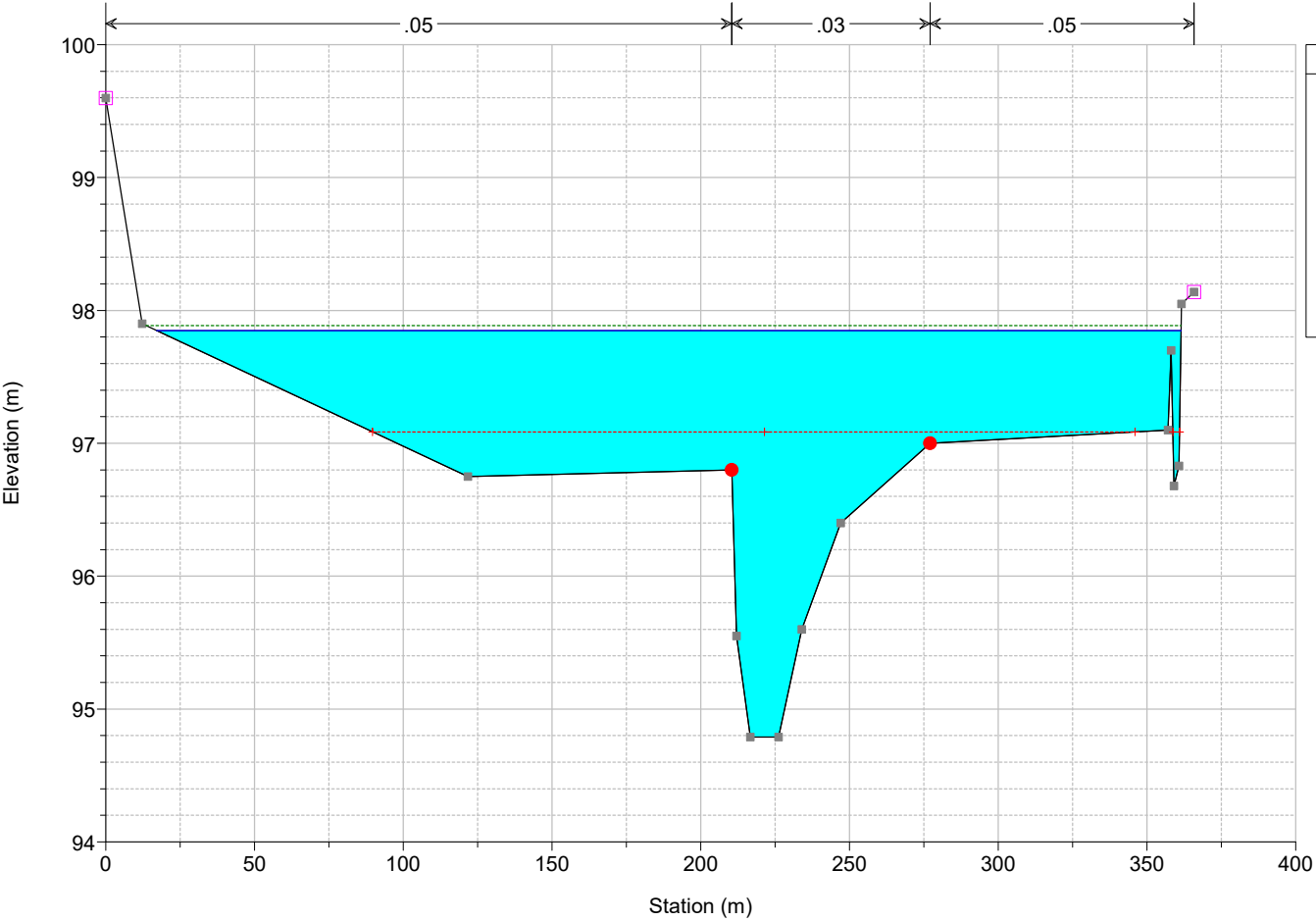


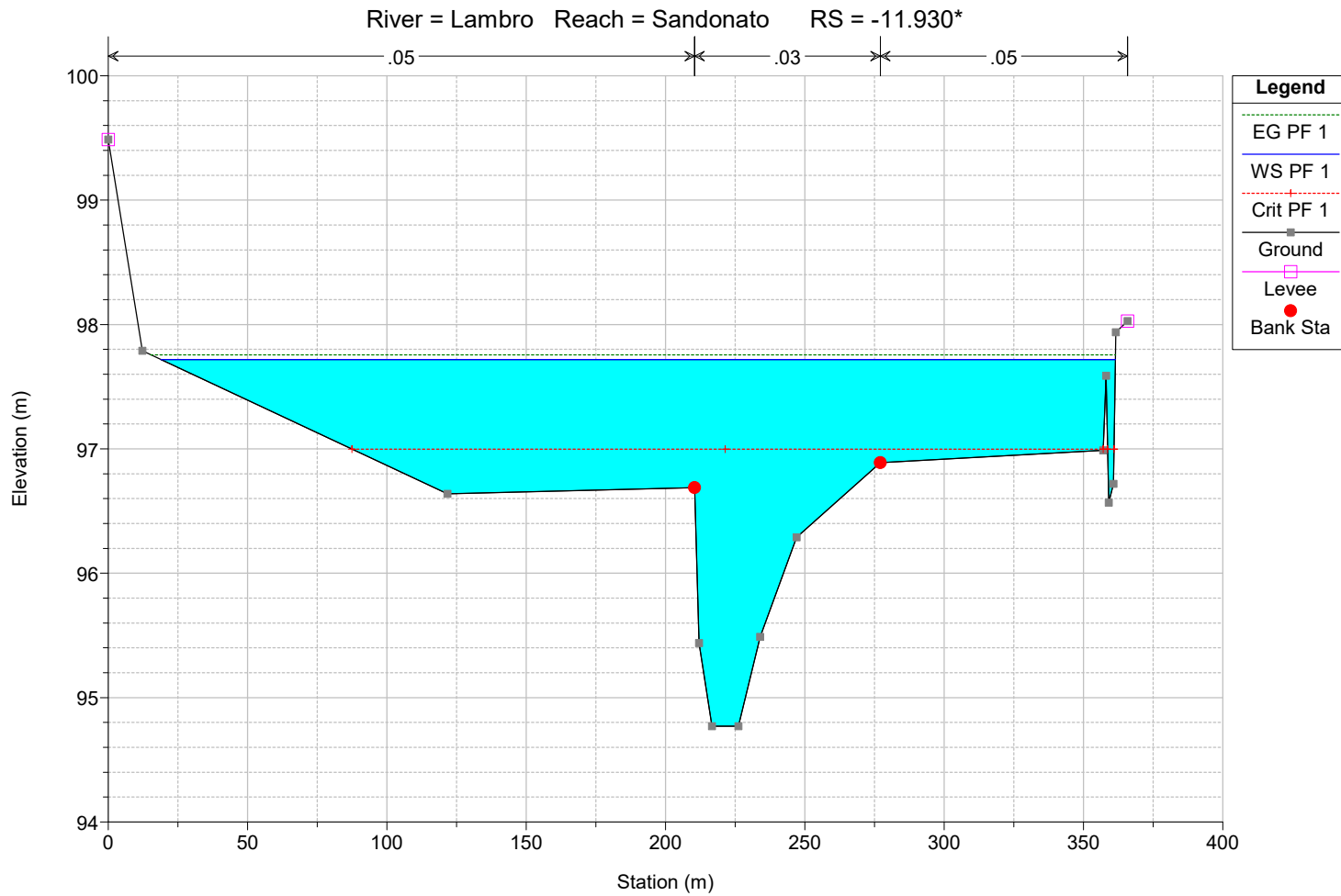
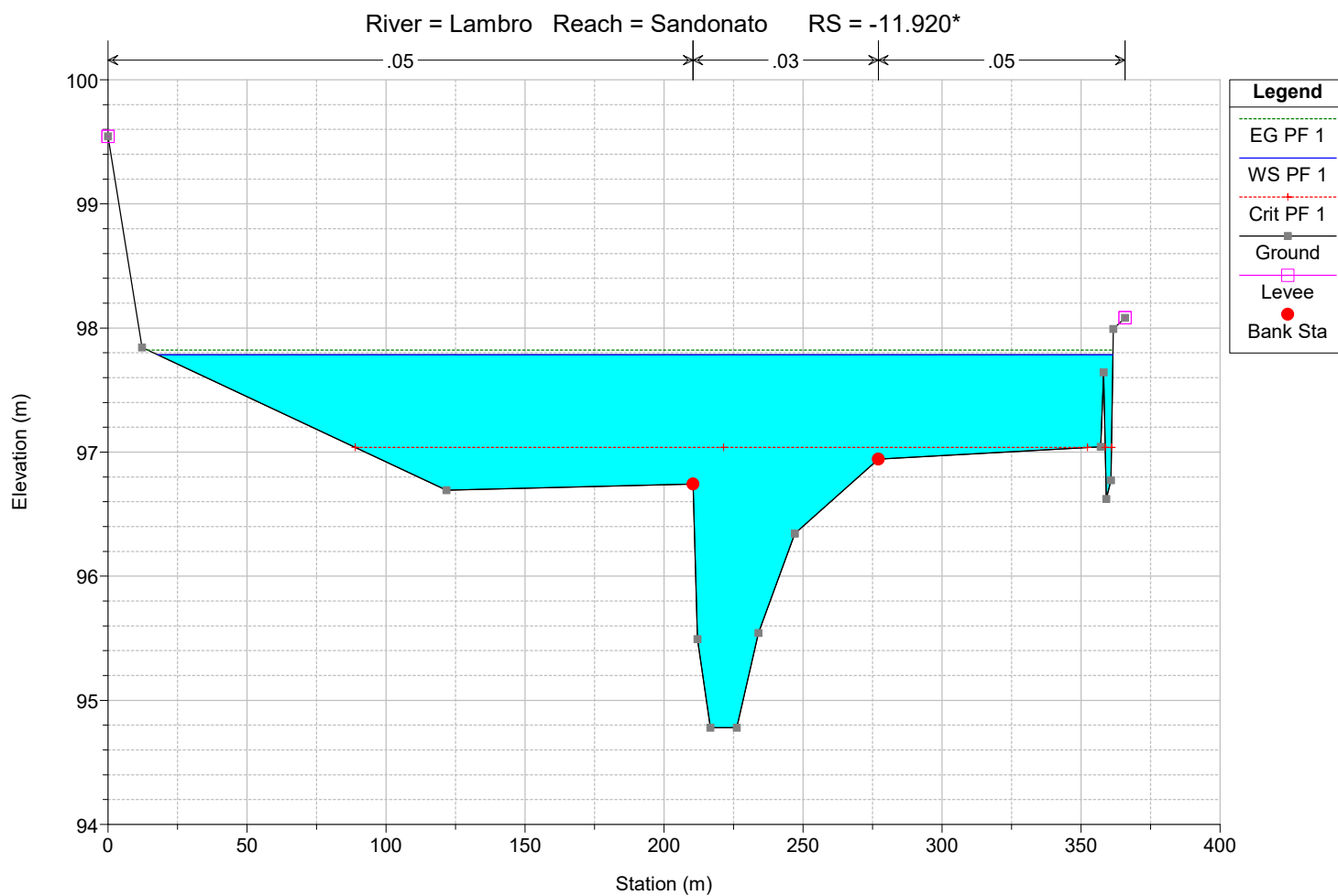


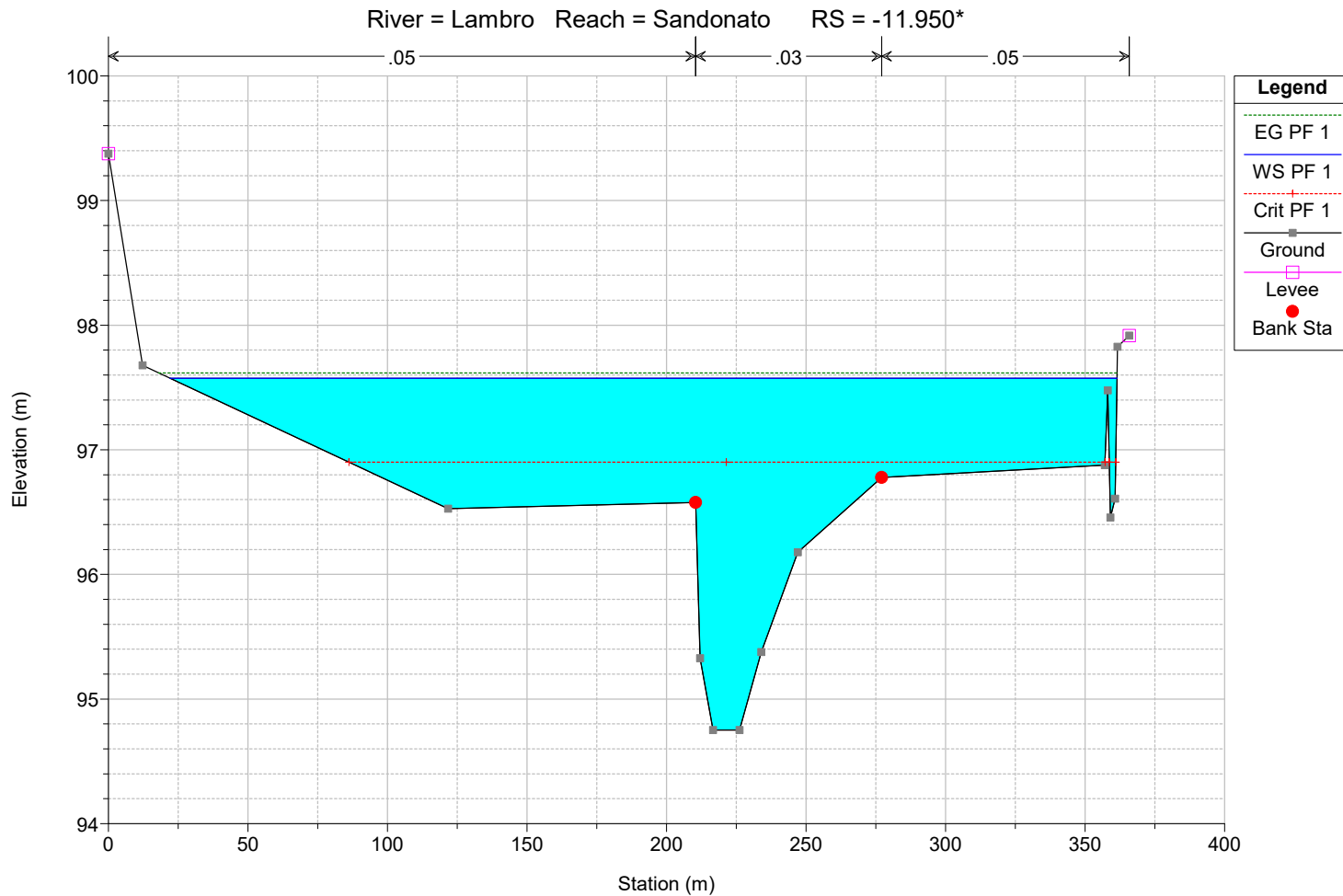
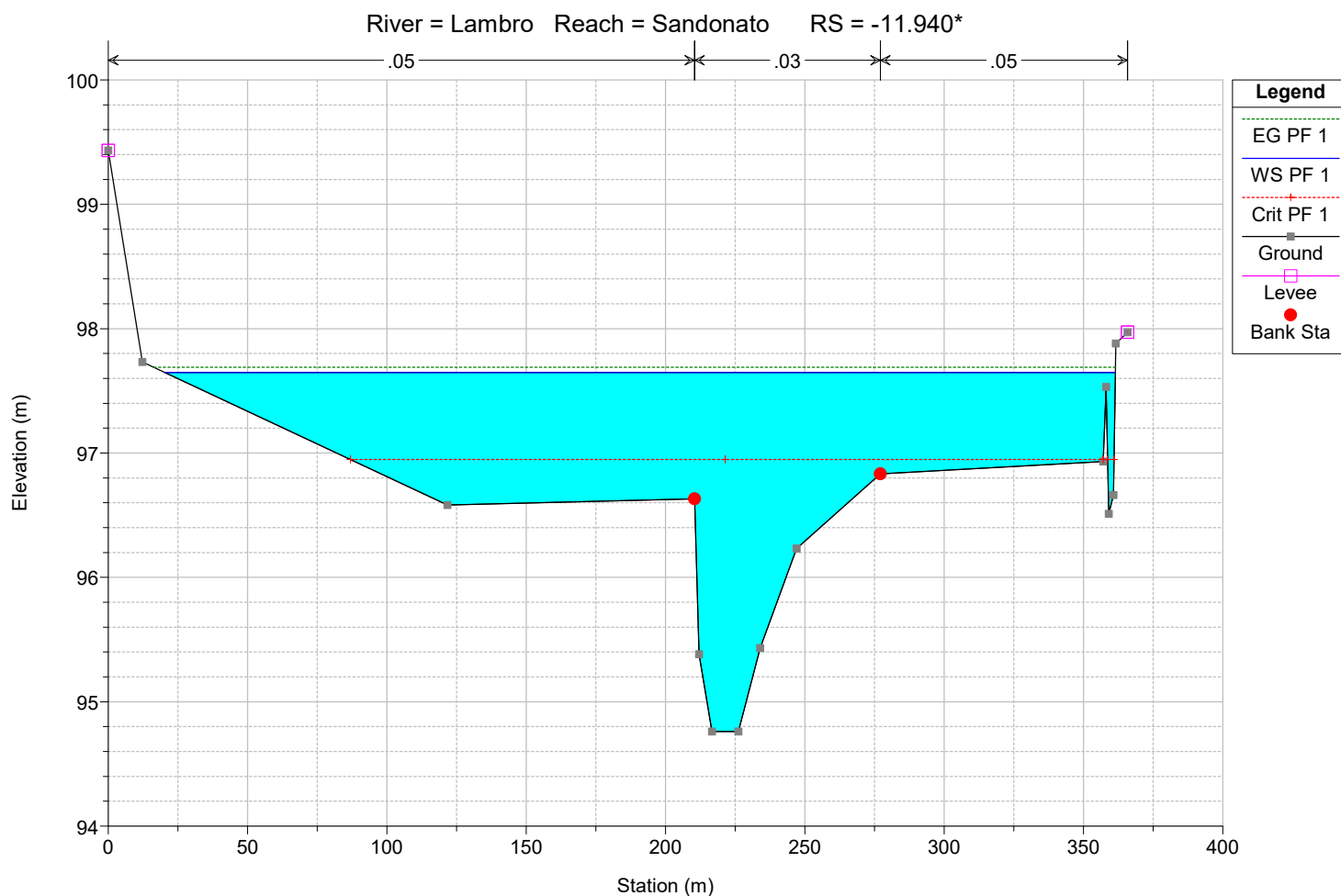
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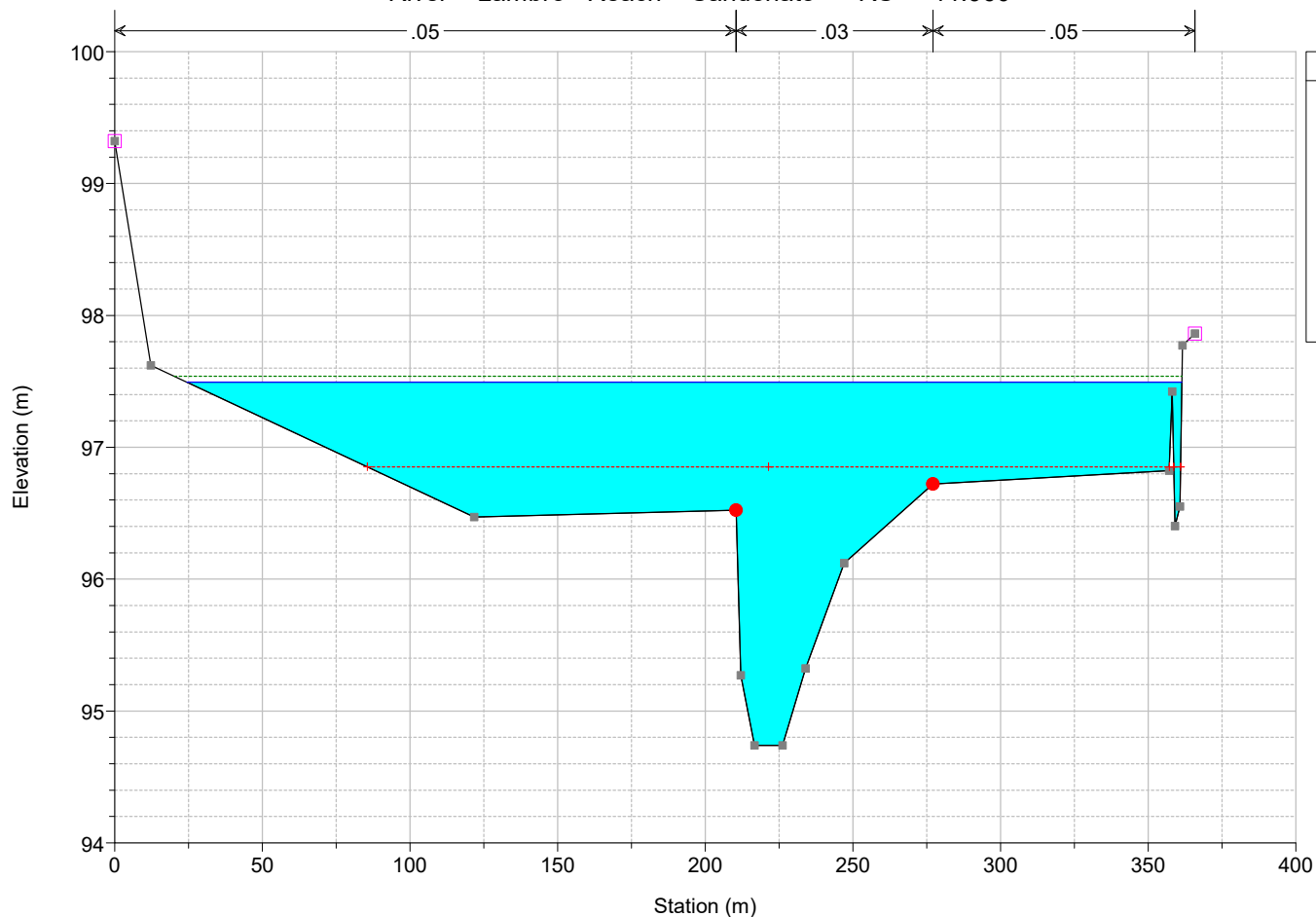
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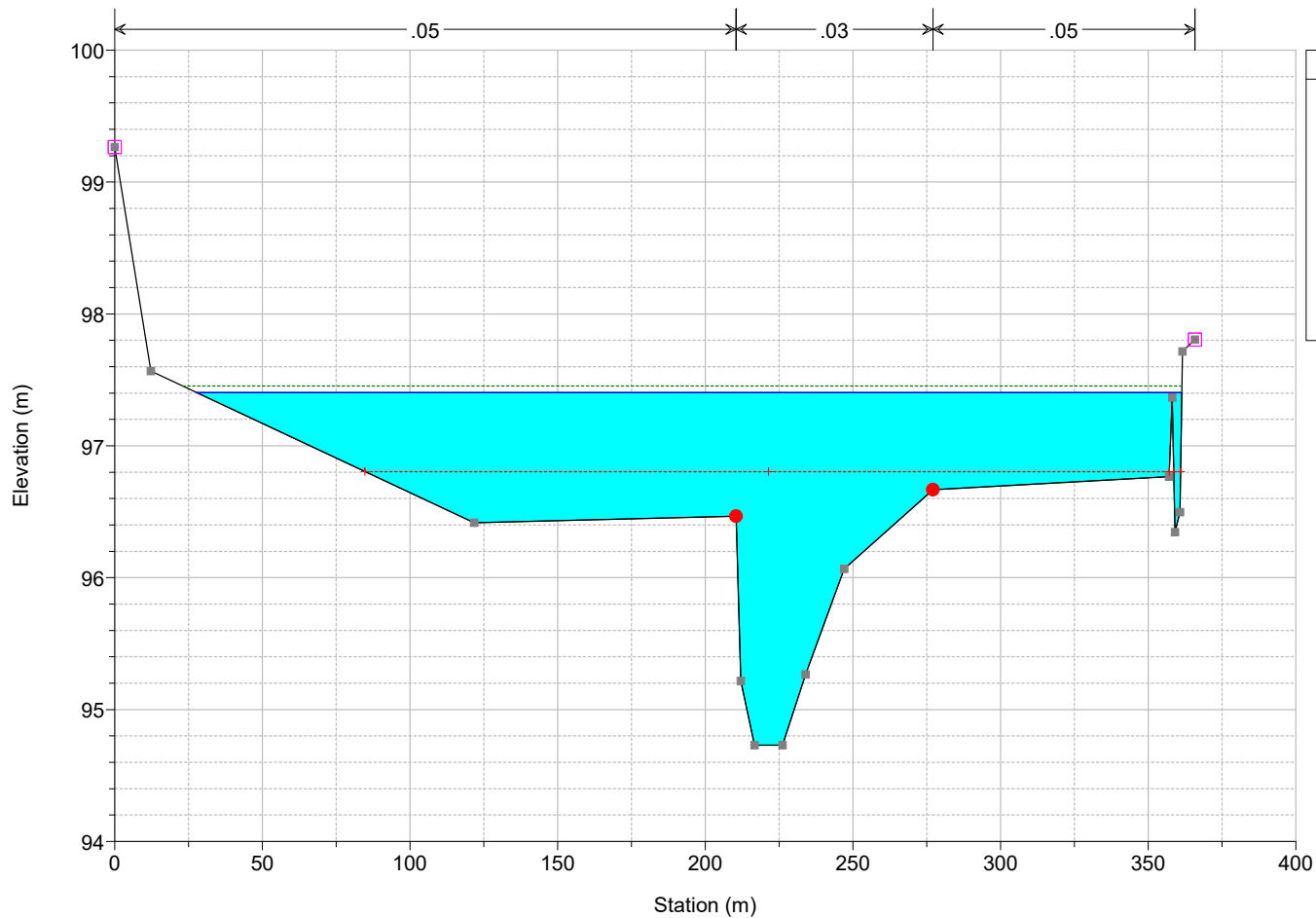




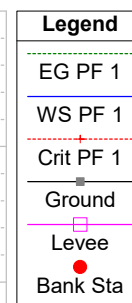
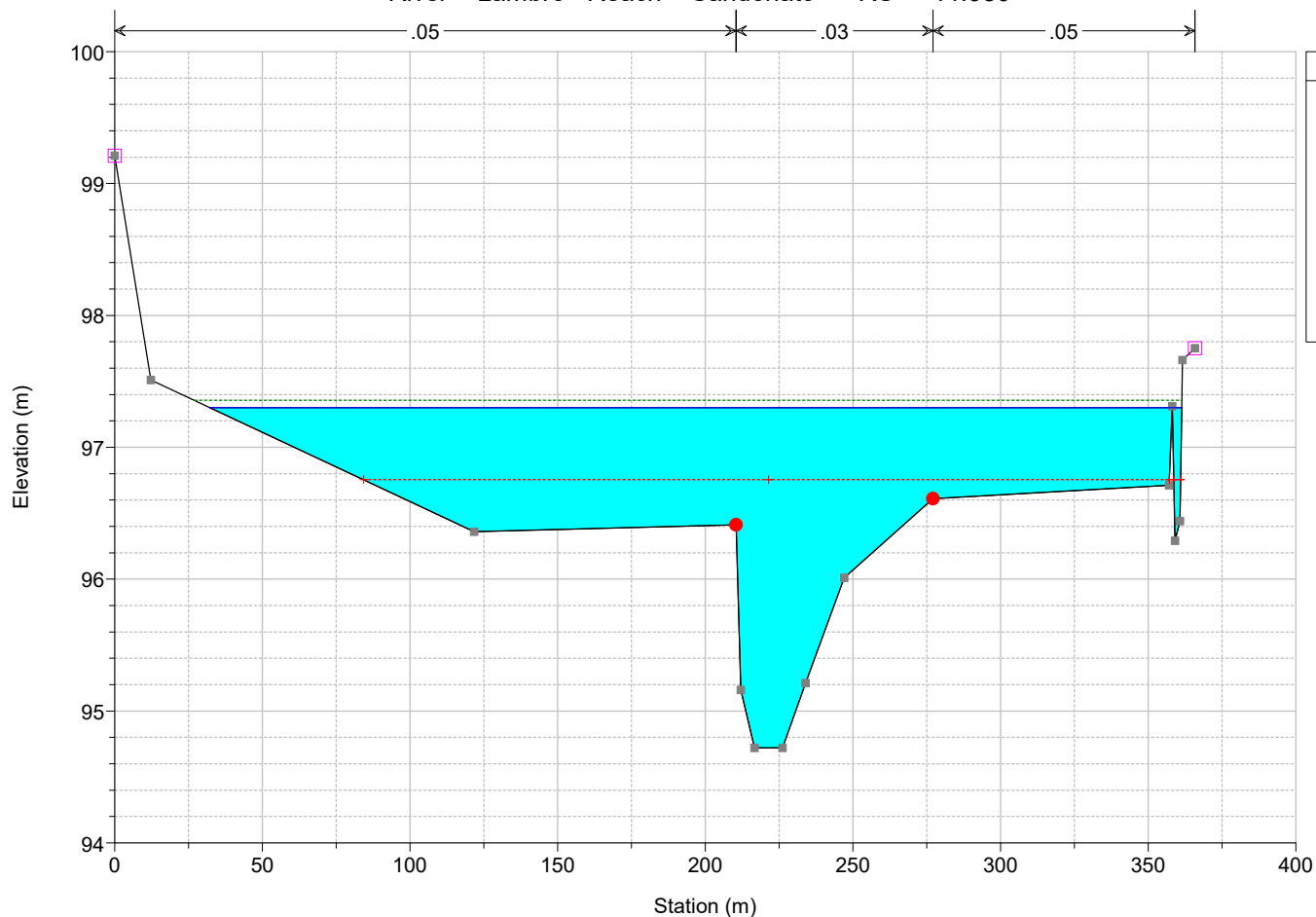
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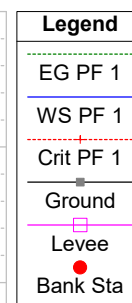
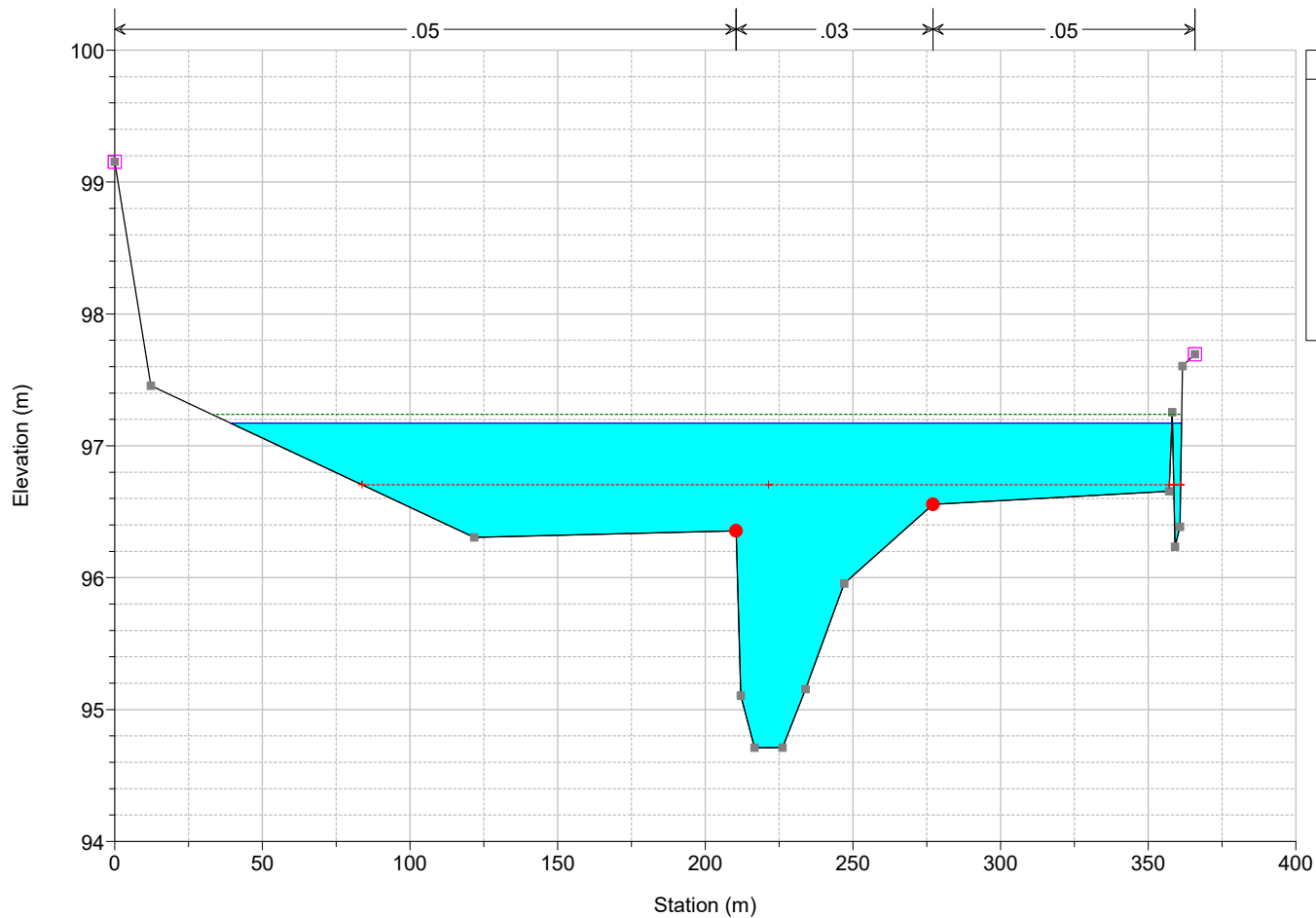
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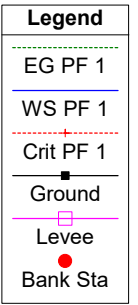
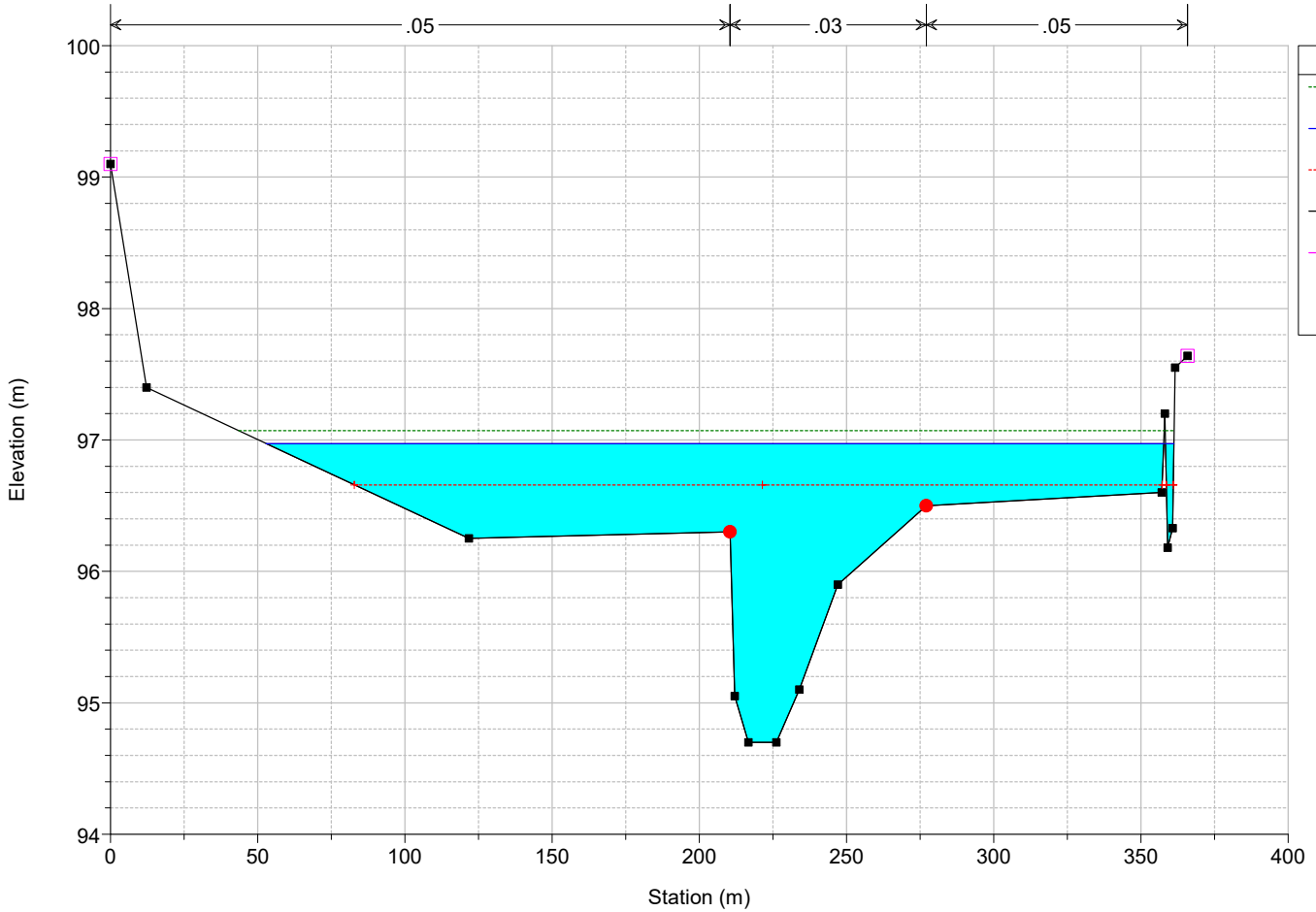
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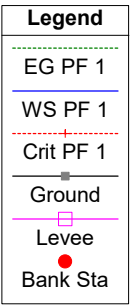
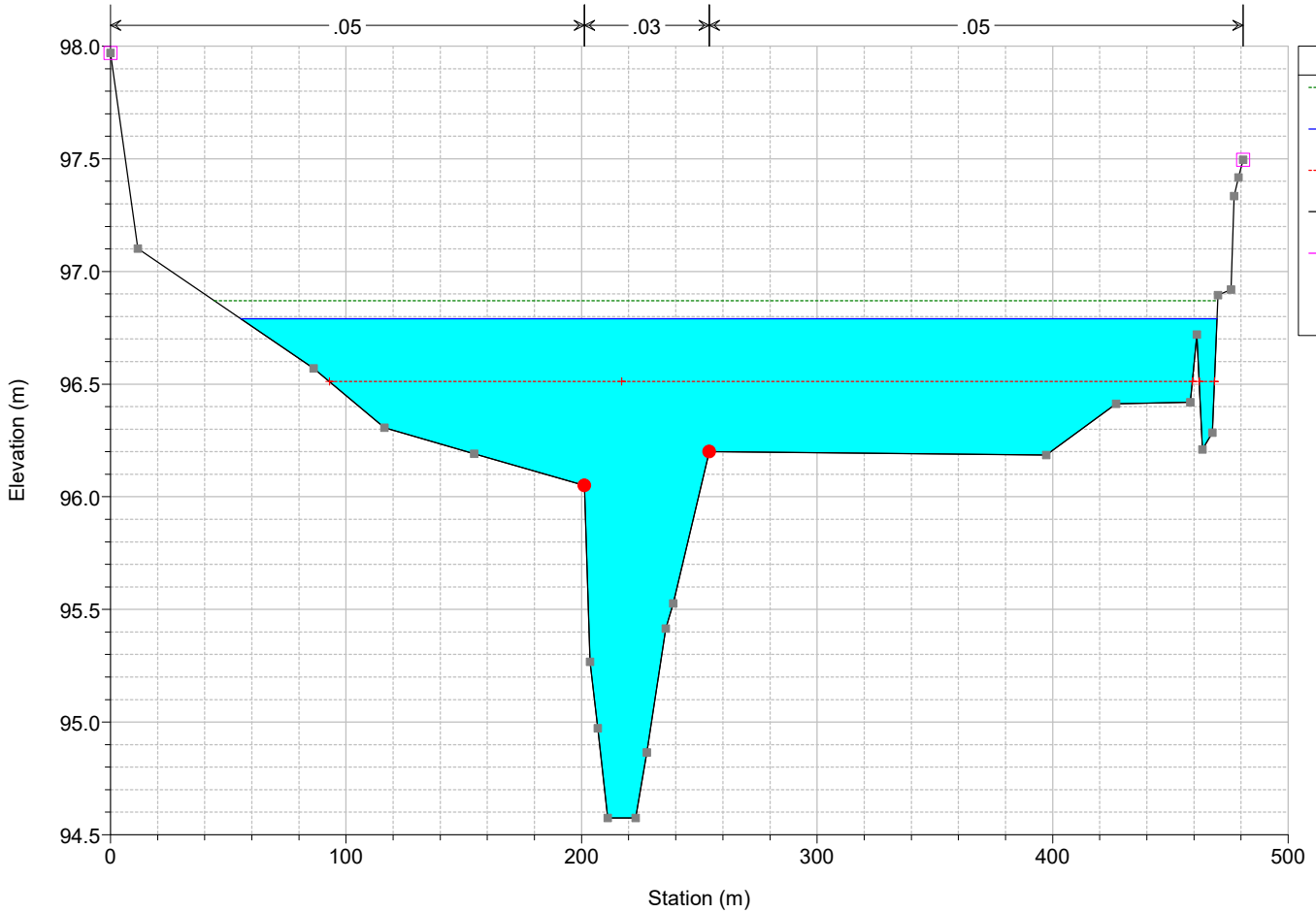
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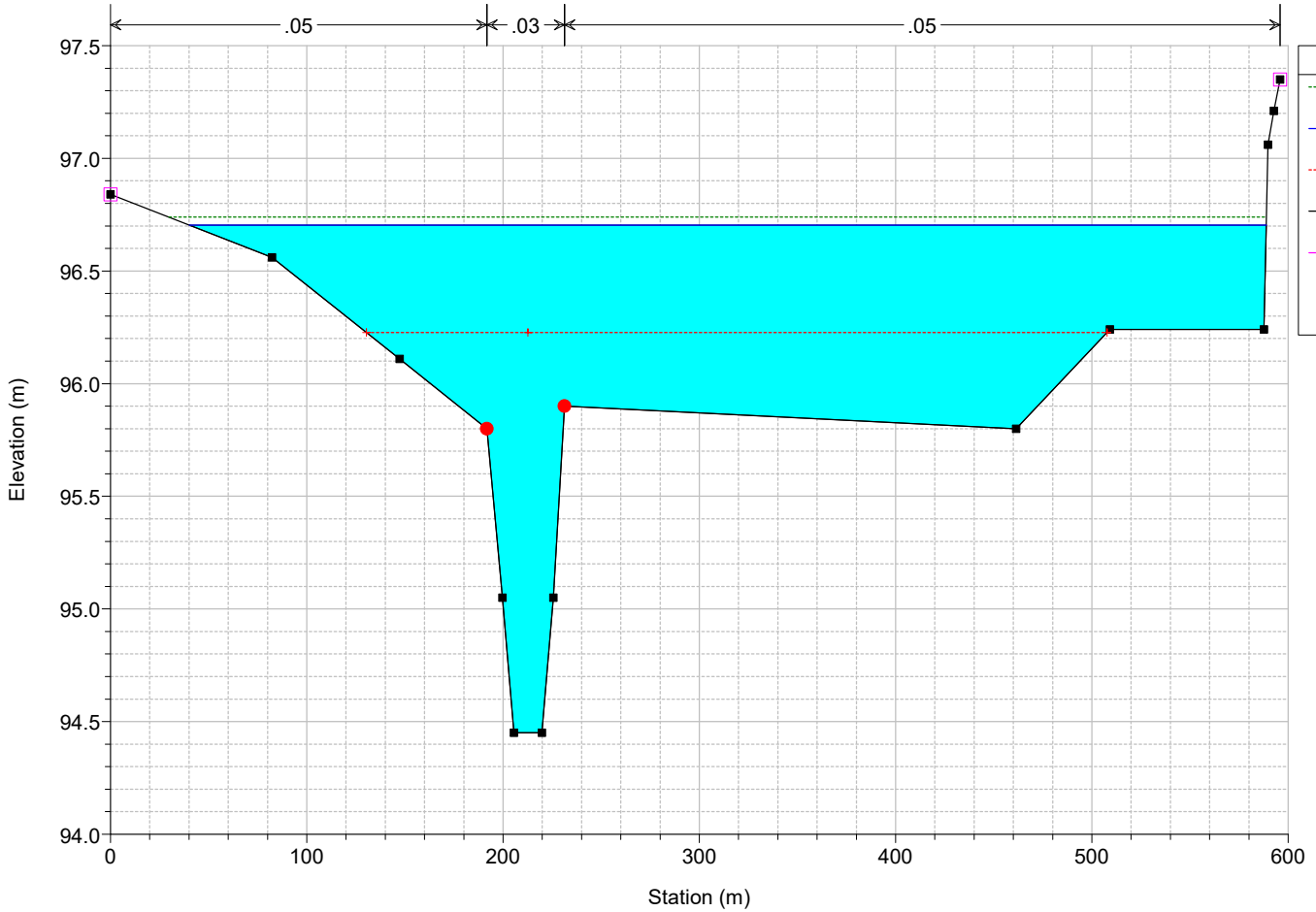
River = Lambro Reach = Sandonato RS = -12



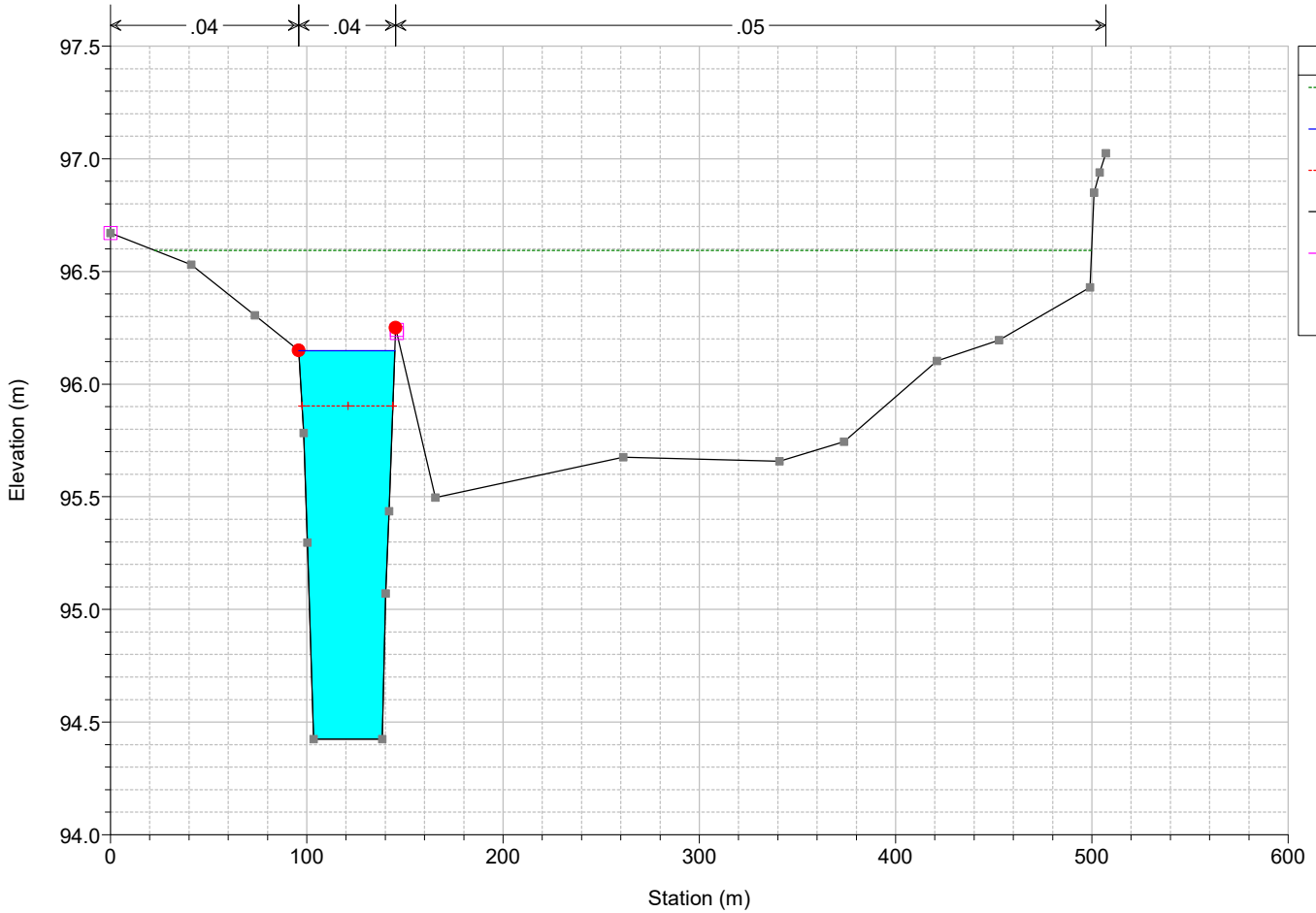
River = Lambro Reach = Sandonato RS = -12.500*



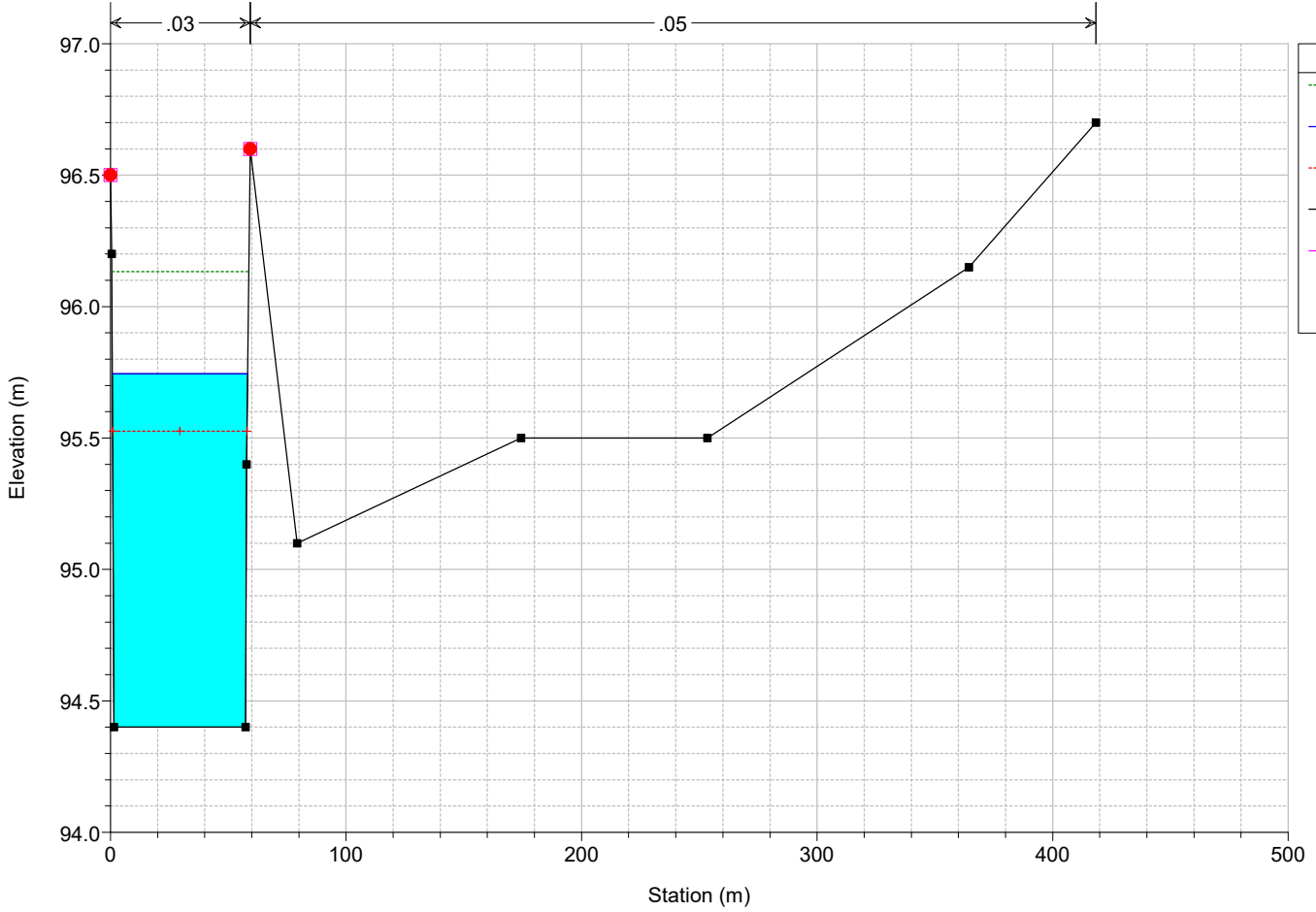
River = Lambro Reach = Sandonato RS = -13



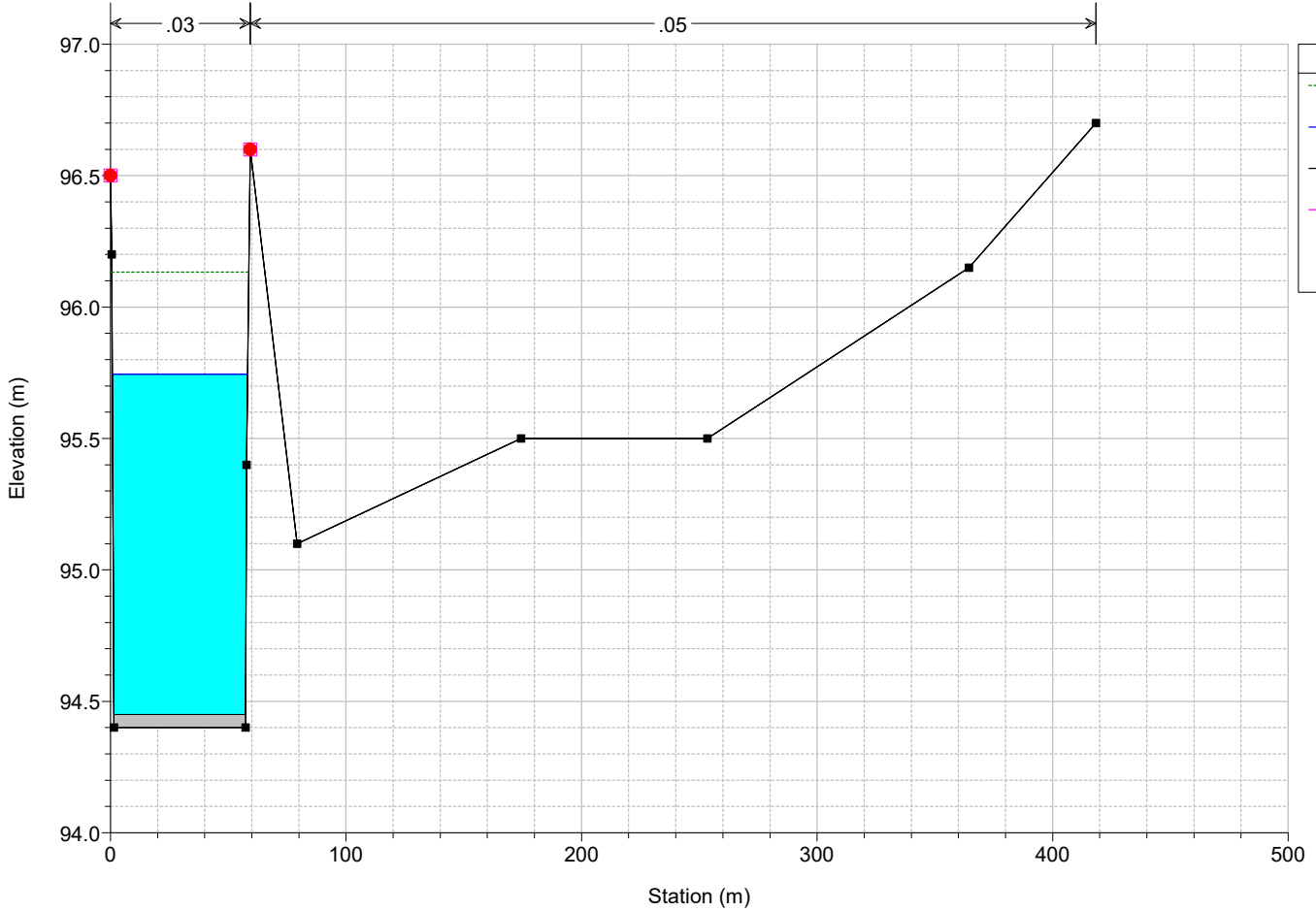
River = Lambro Reach = Sandonato RS = -13.500*



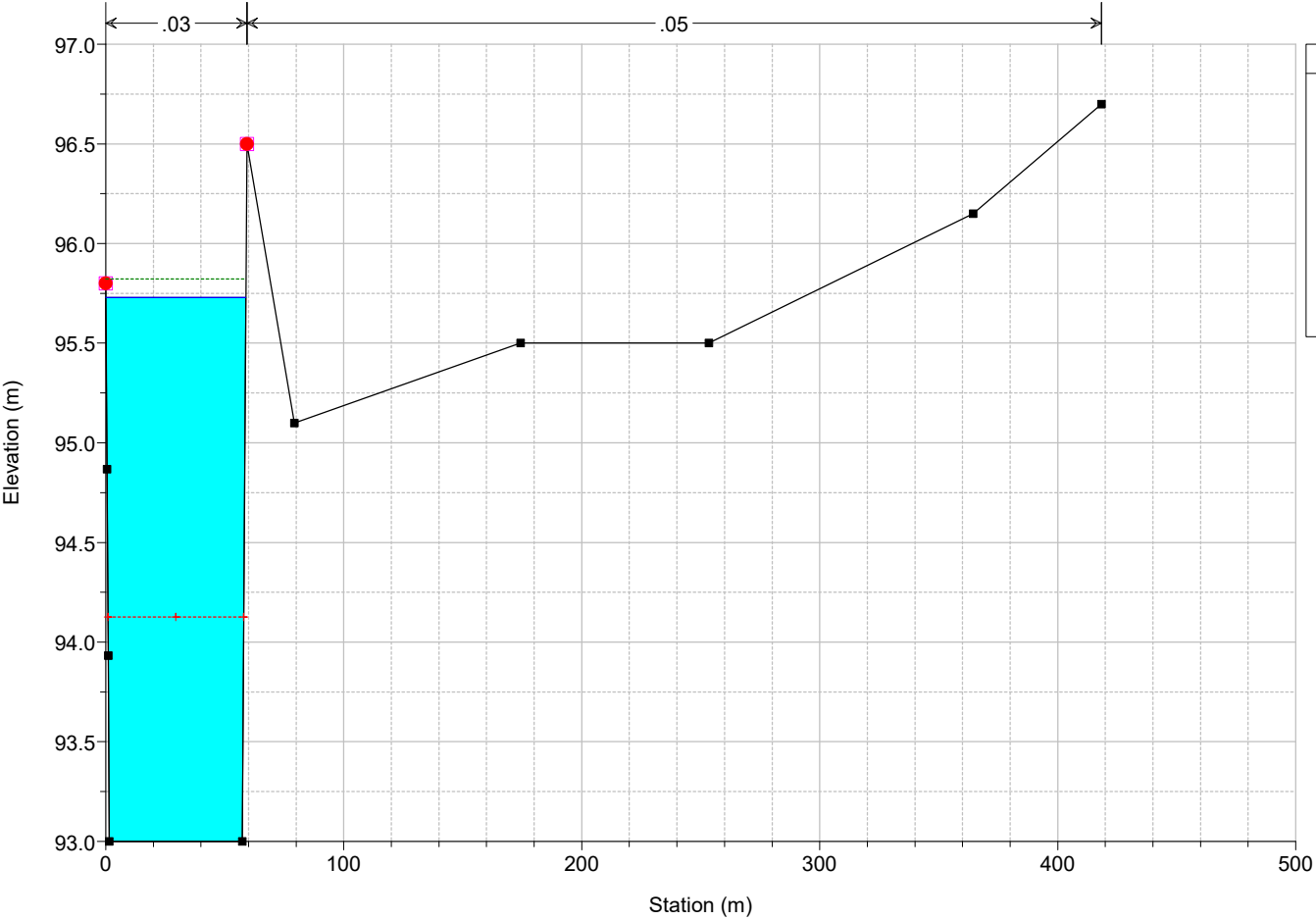
River = Lambro Reach = Sandonato RS = -14



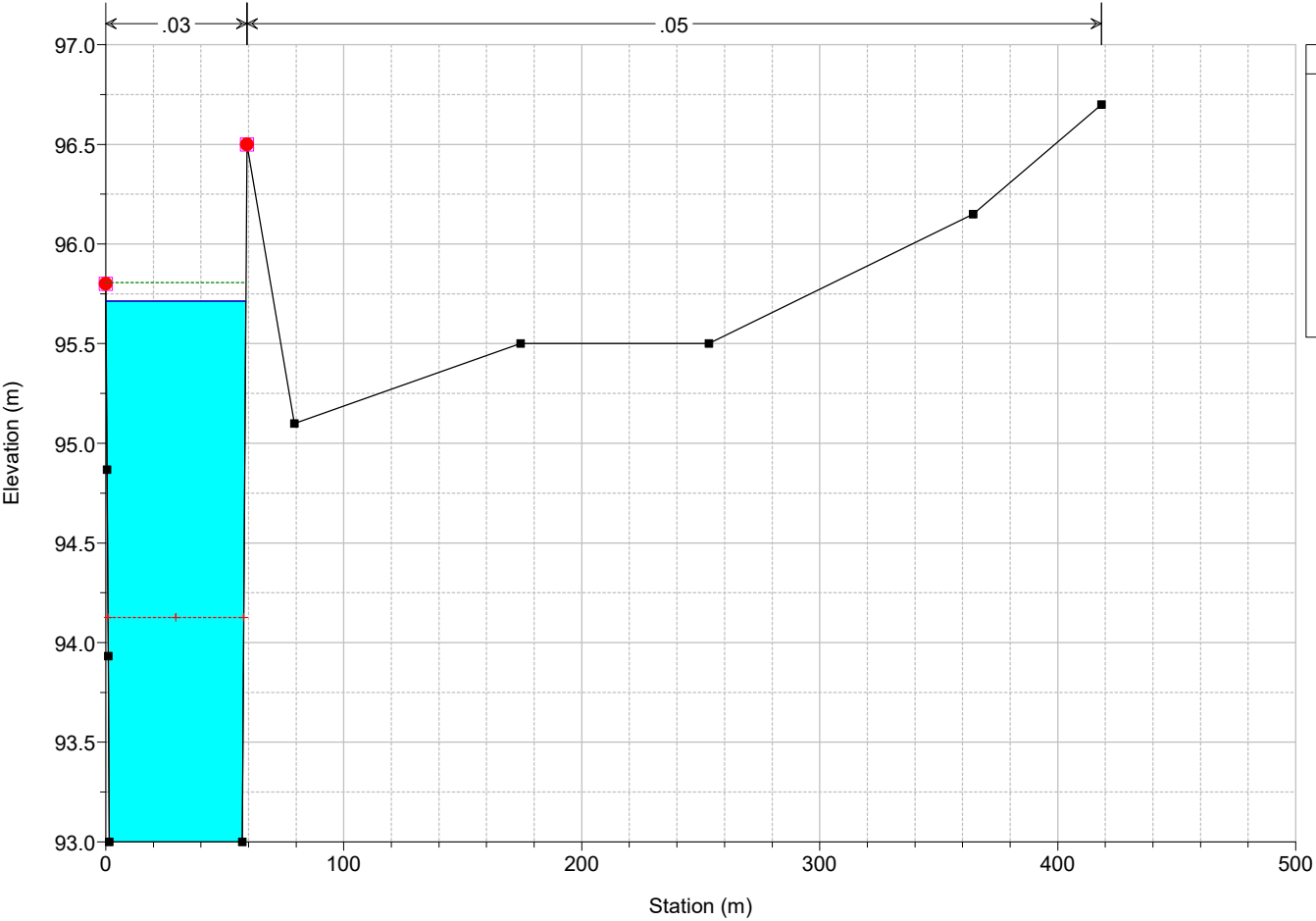
River = Lambro Reach = Sandonato RS = -15 IS Traversa di Brusada



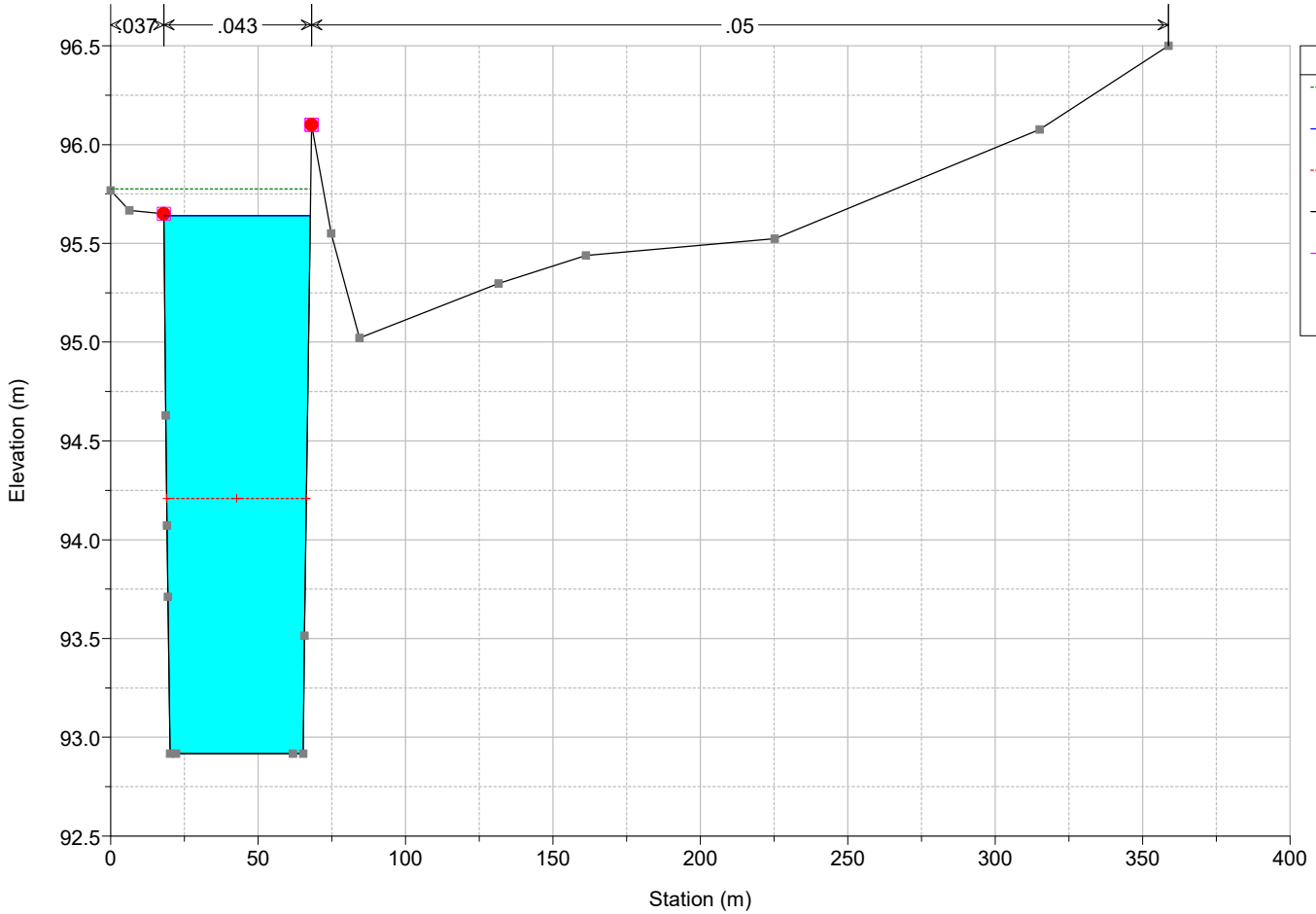
River = Lambro Reach = Sandonato RS = -15.5



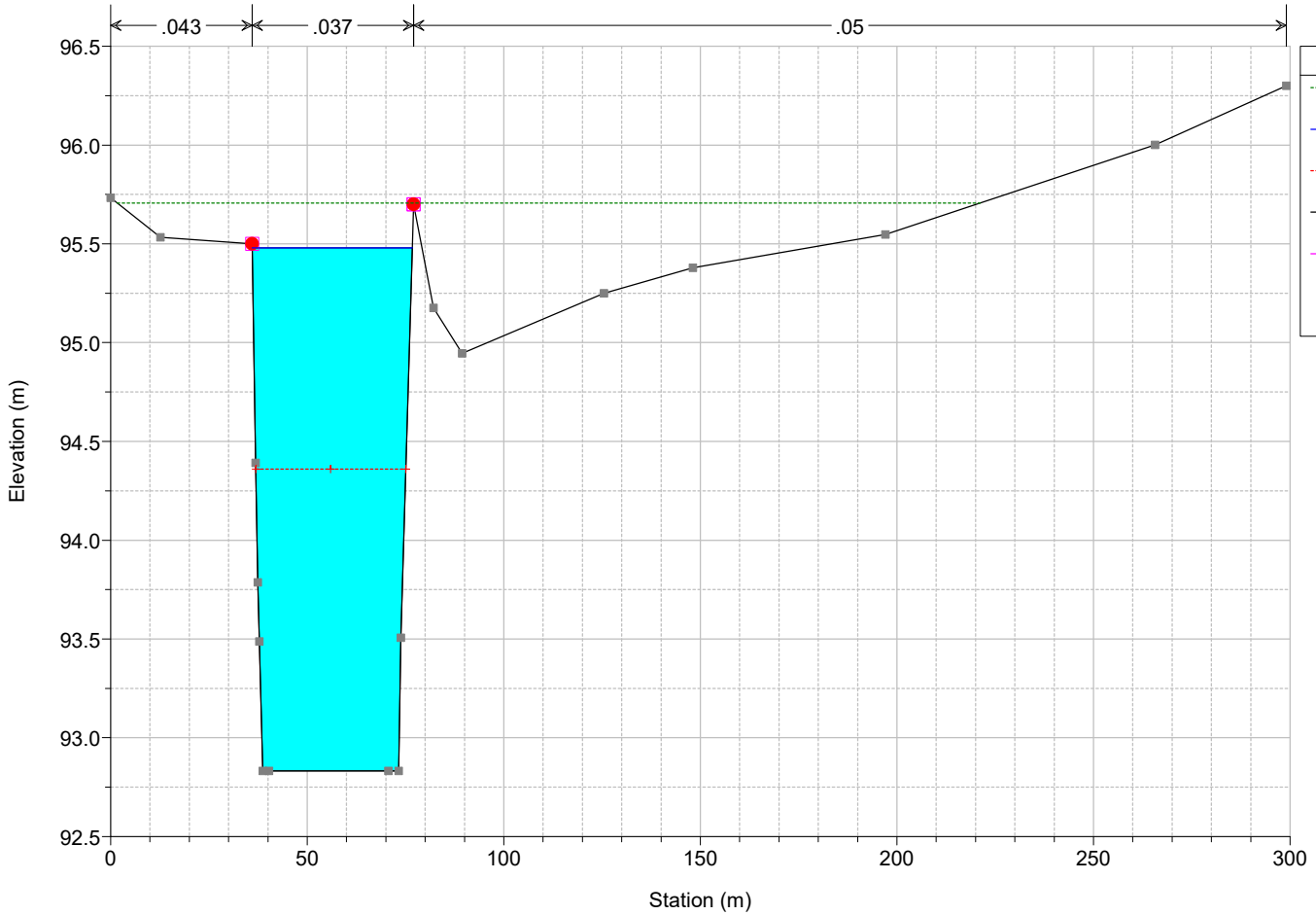
River = Lambro Reach = Sandonato RS = -16



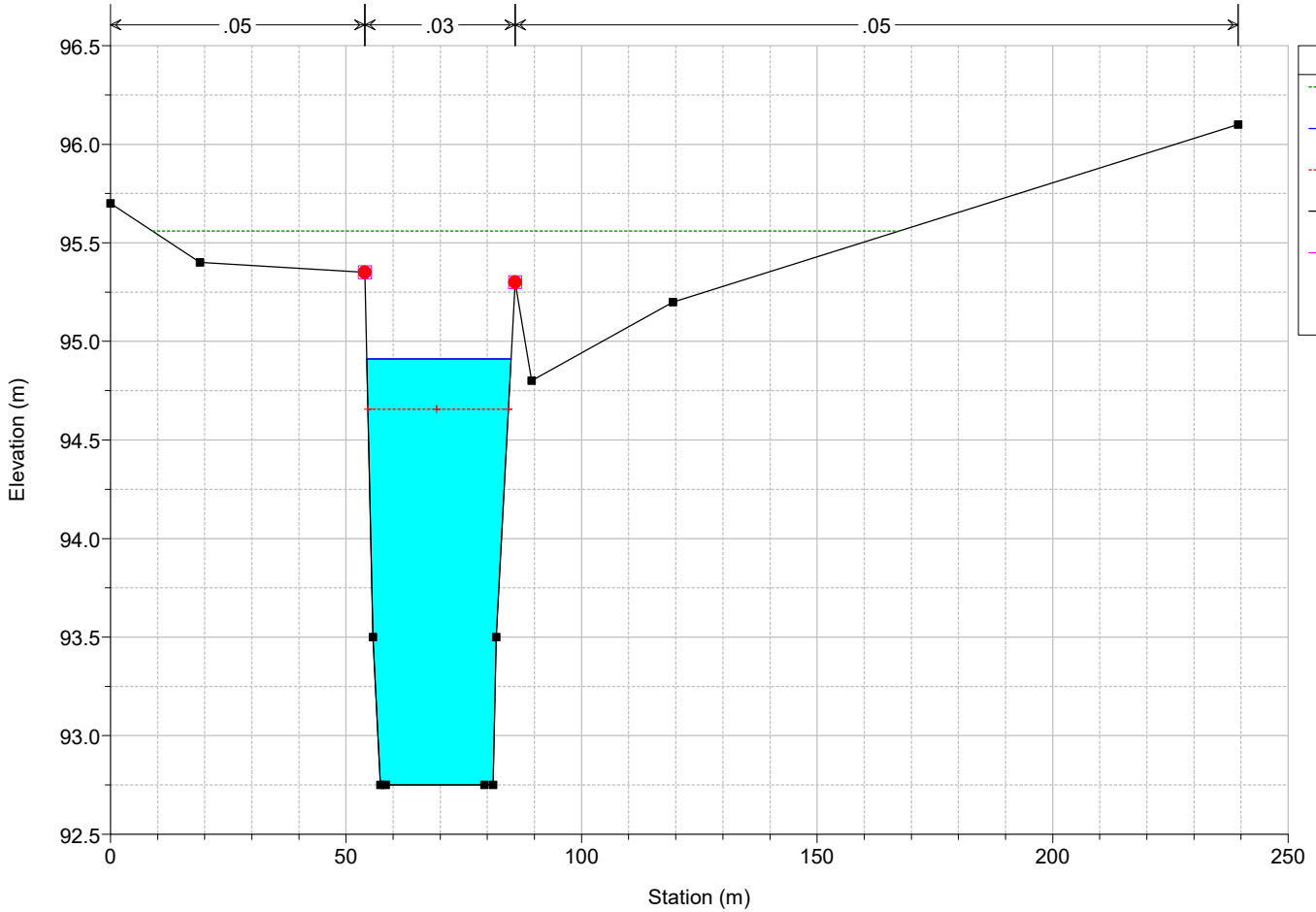
River = Lambro Reach = Sandonato RS = -16.333*



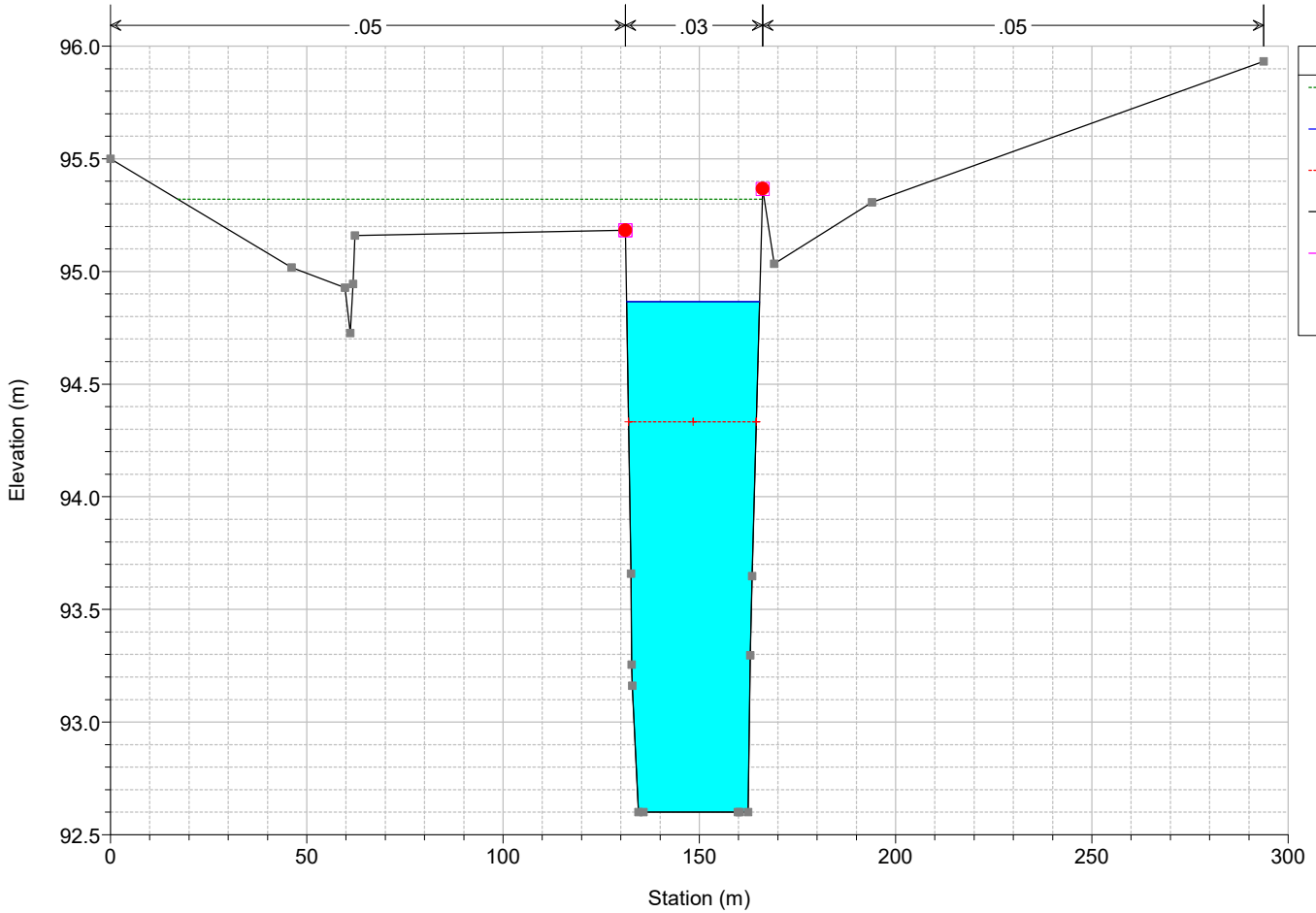
River = Lambro Reach = Sandonato RS = -16.666*

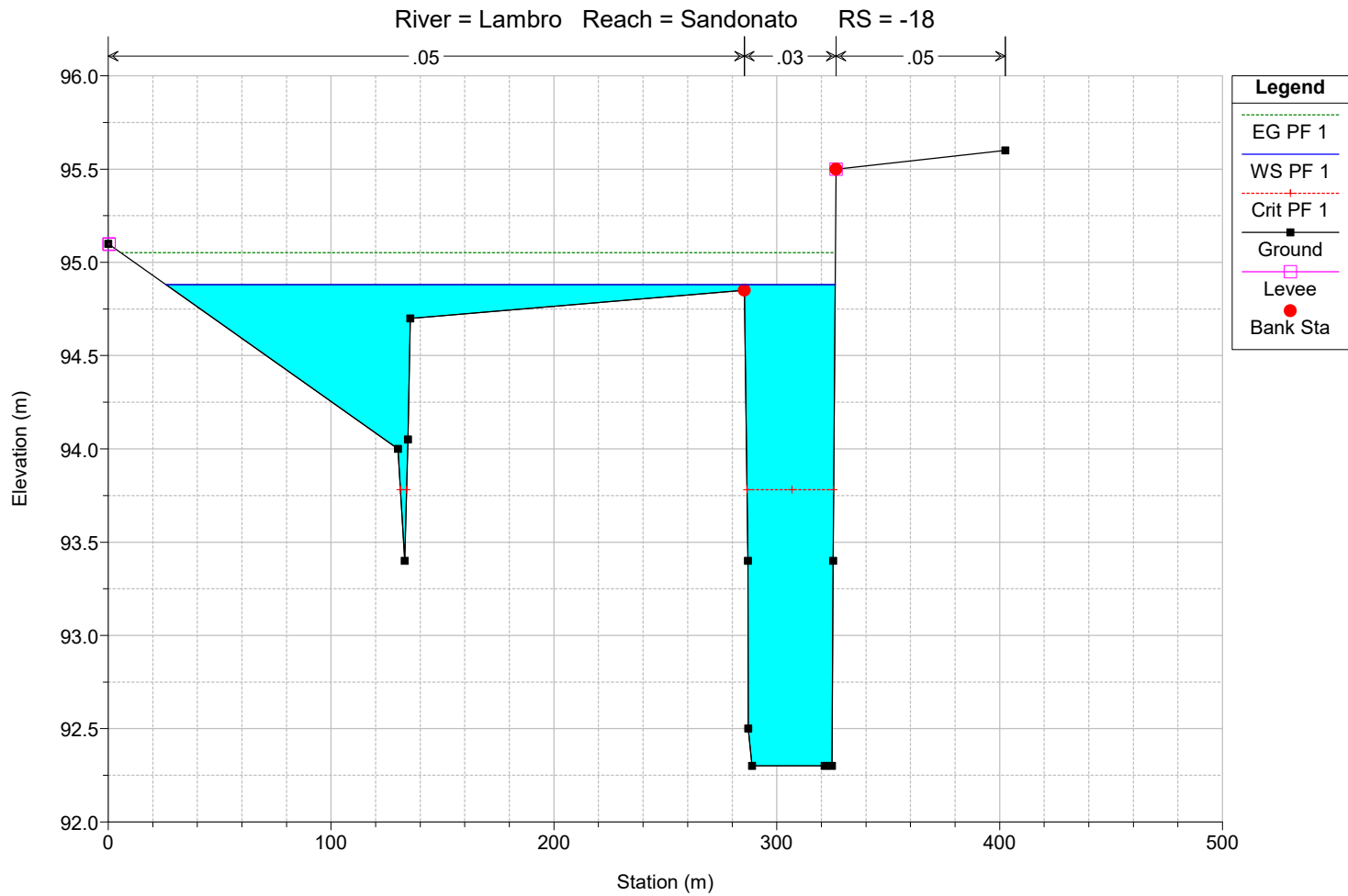
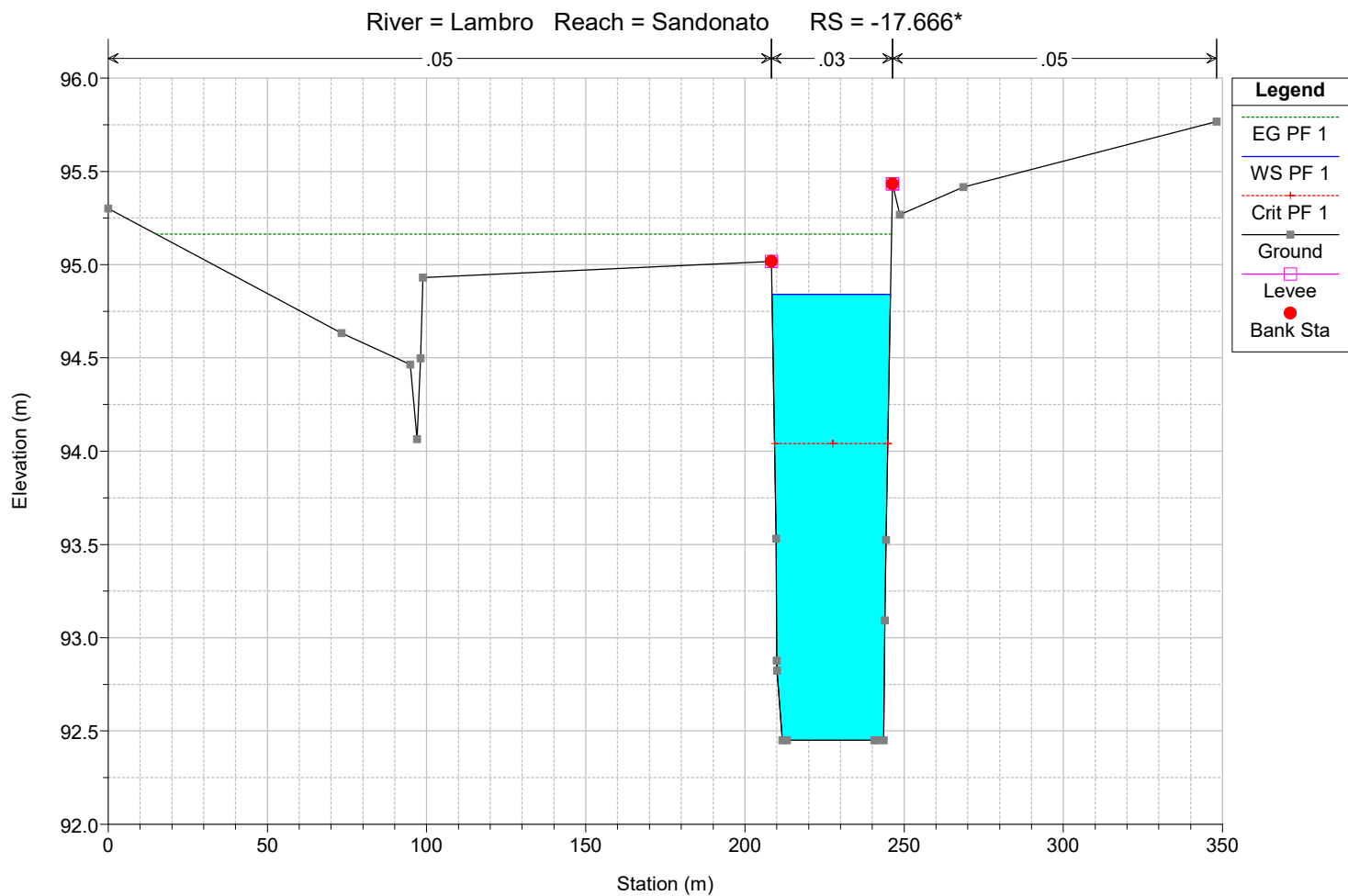


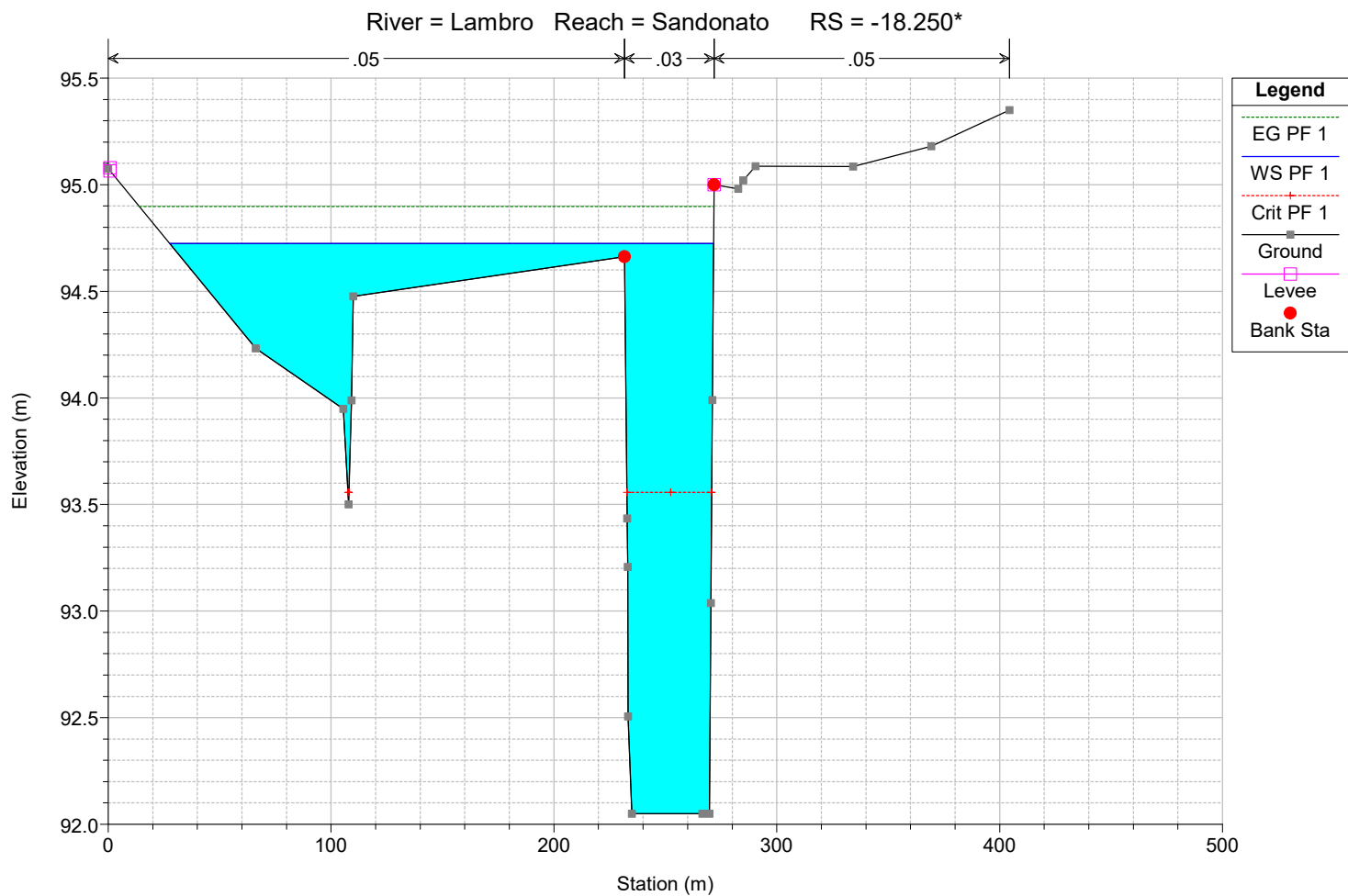
River = Lambro Reach = Sandonato RS = -17

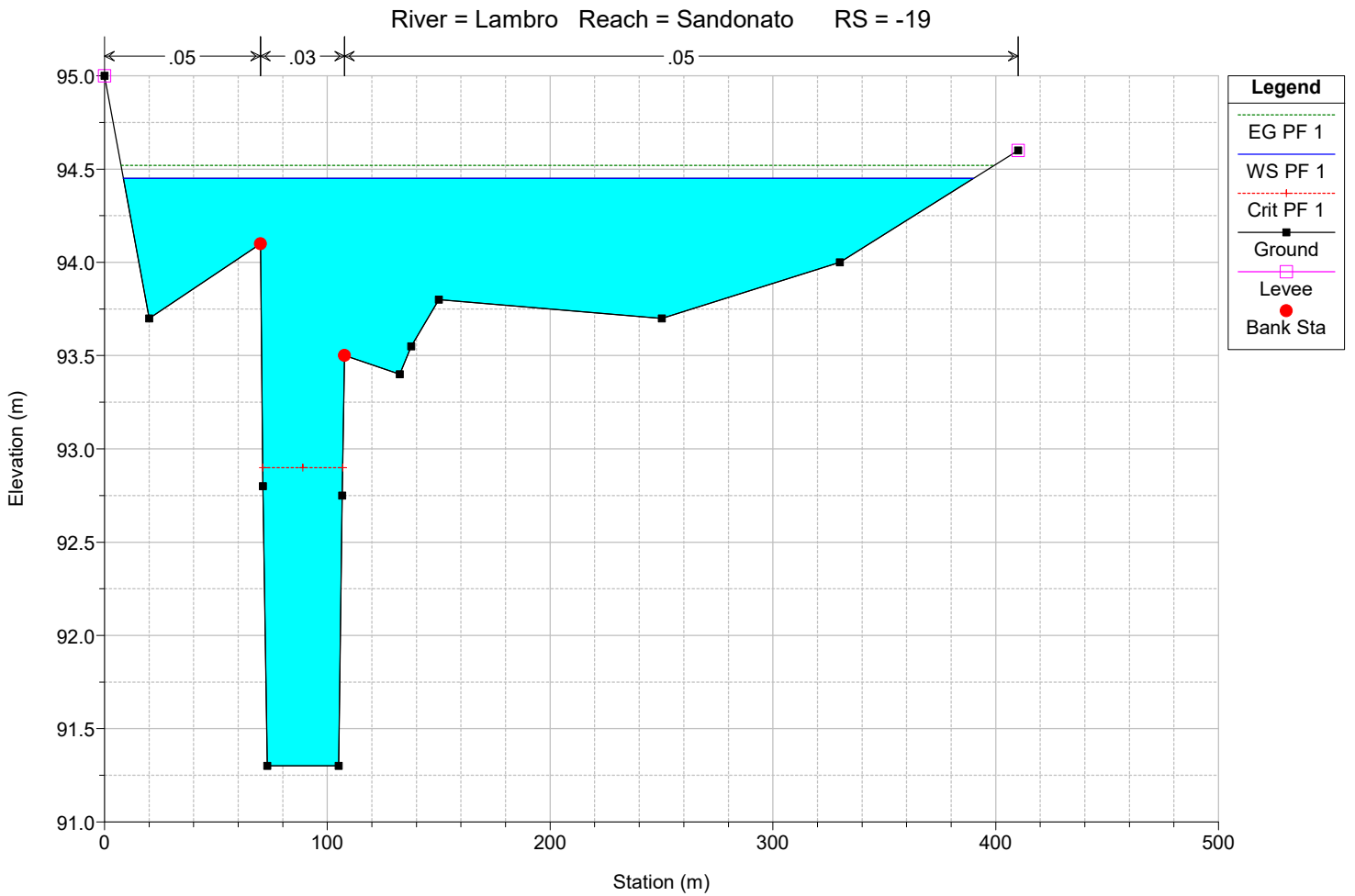
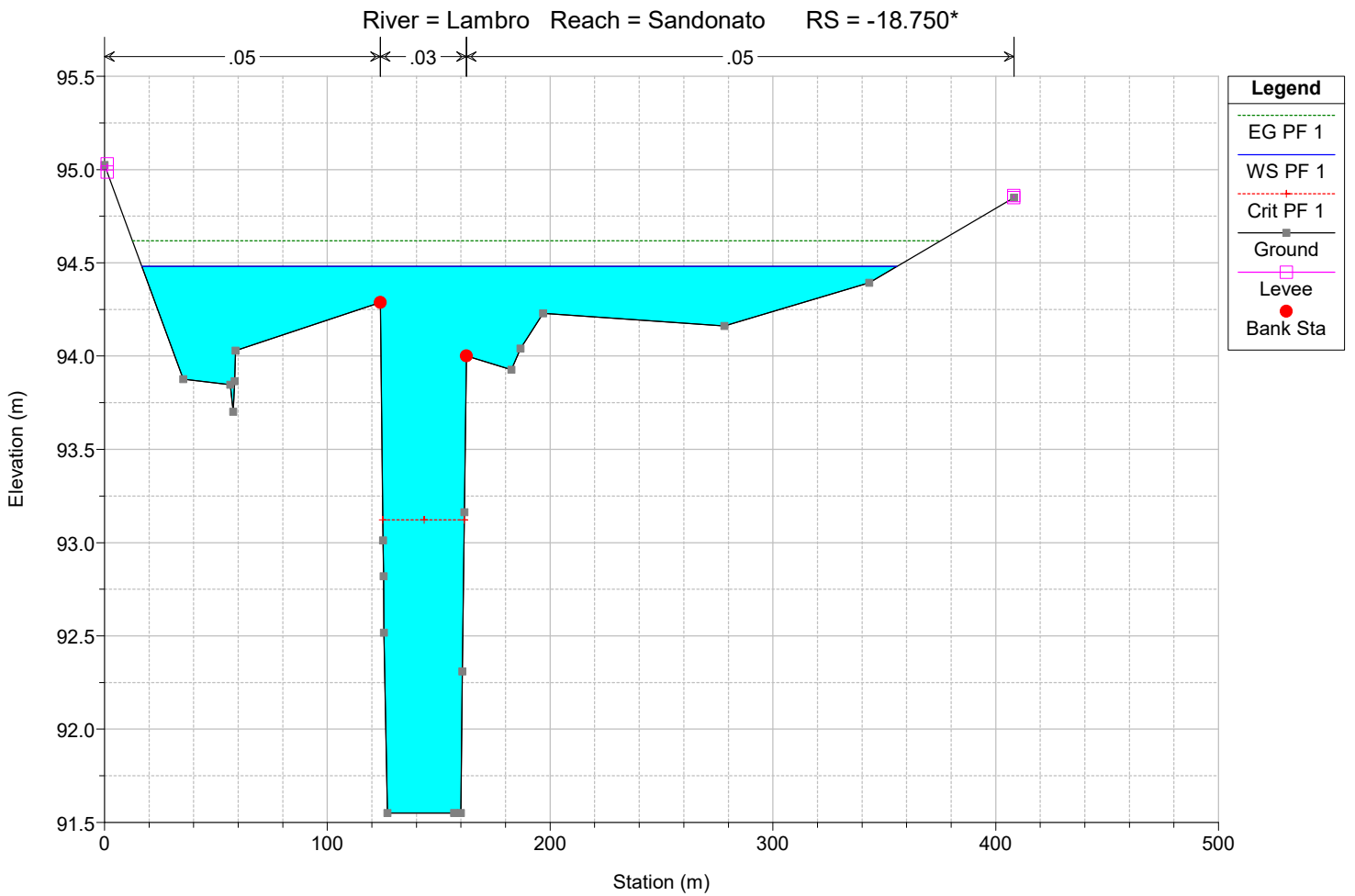


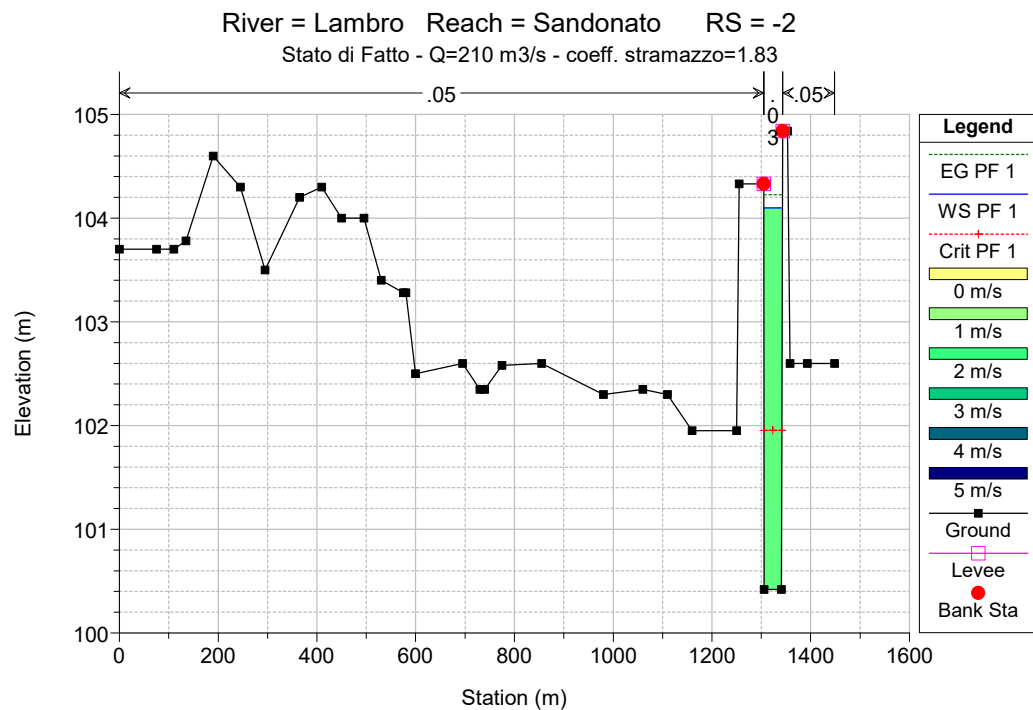
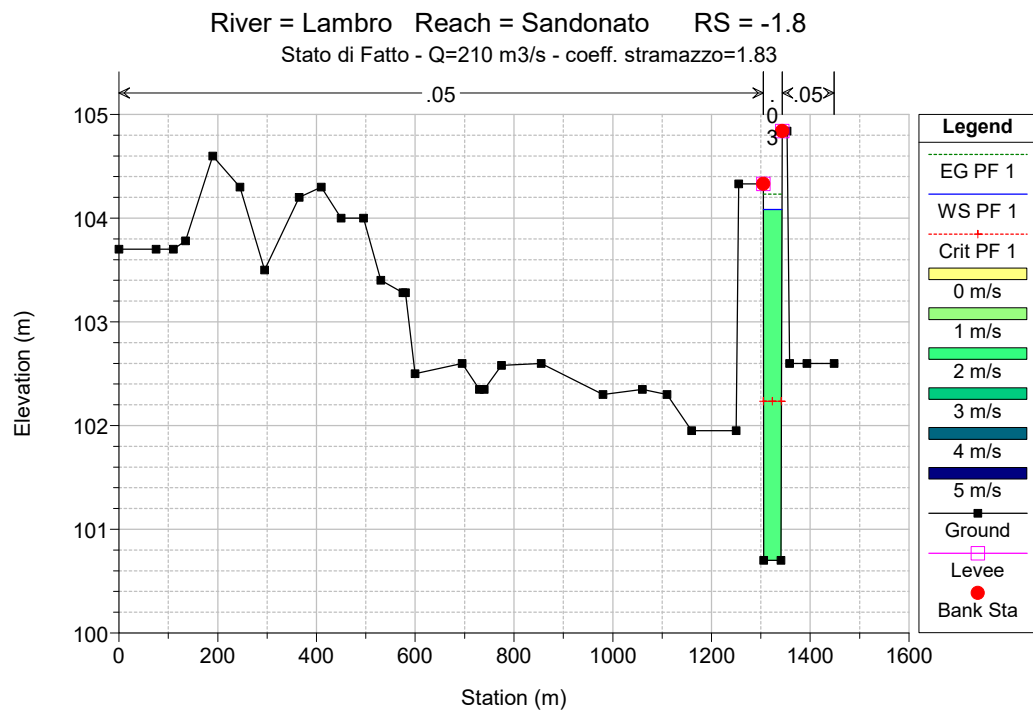
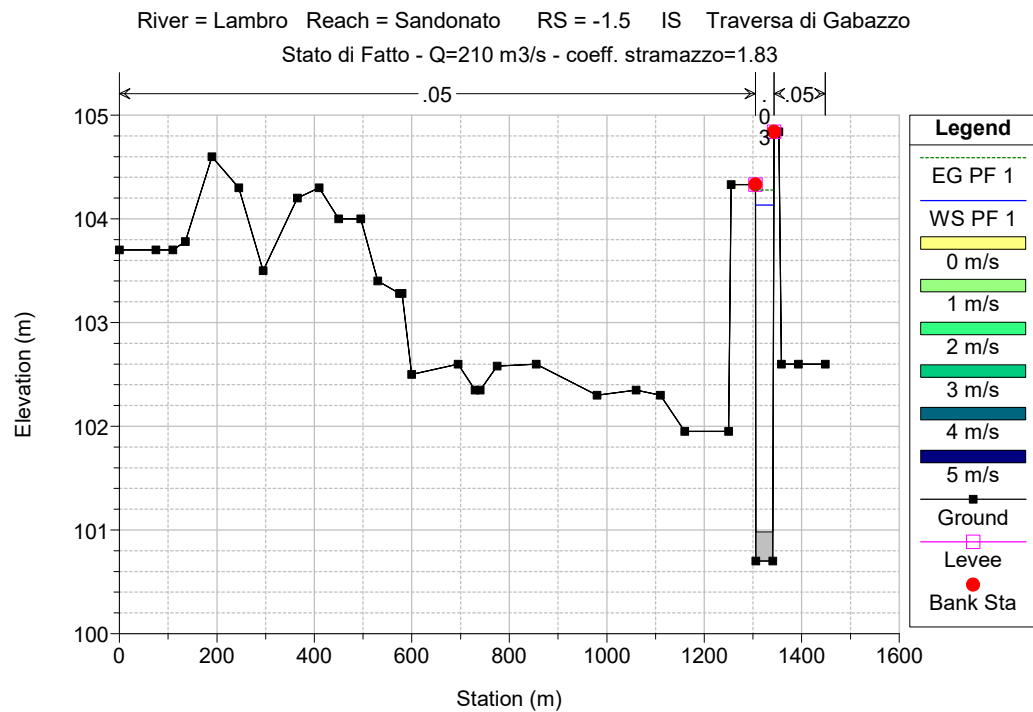
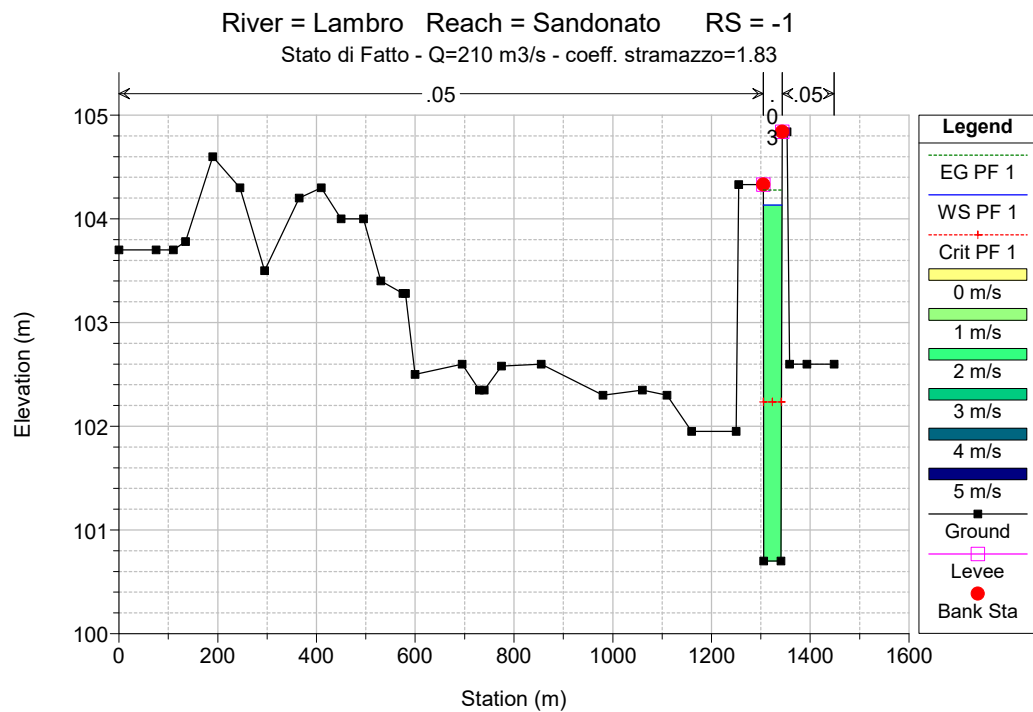
River = Lambro Reach = Sandonato RS = -17.333*

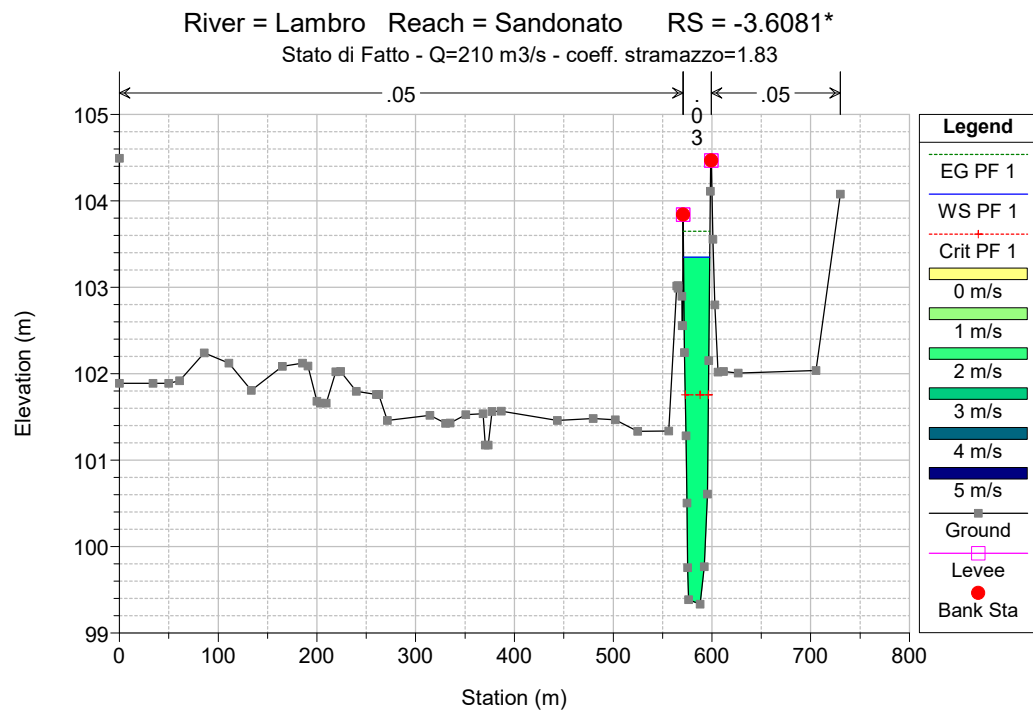
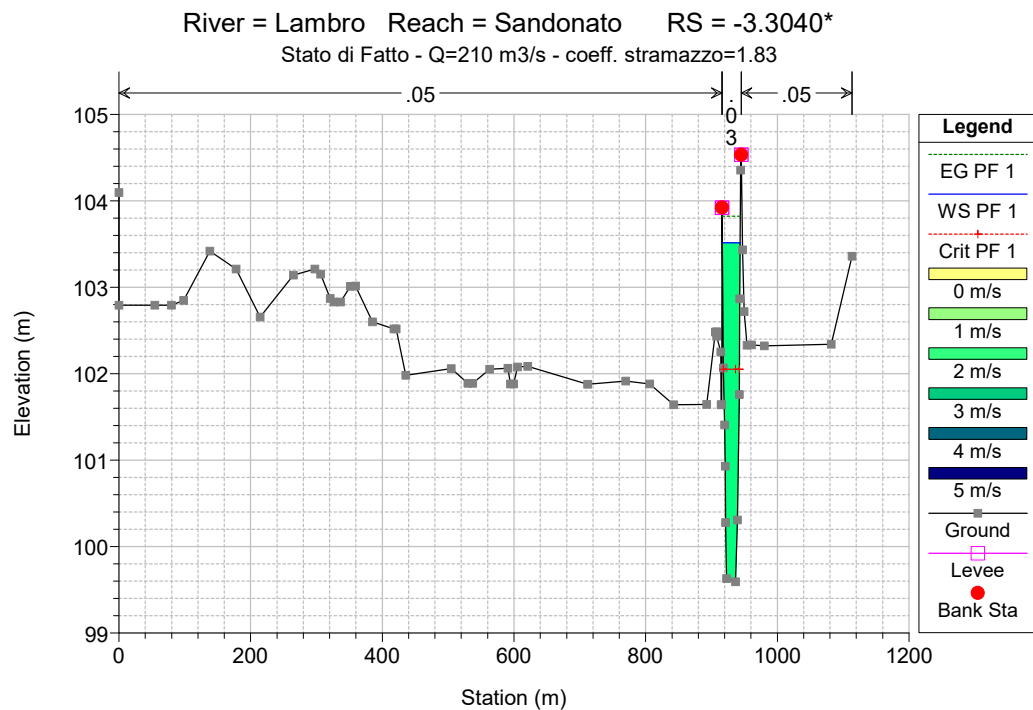
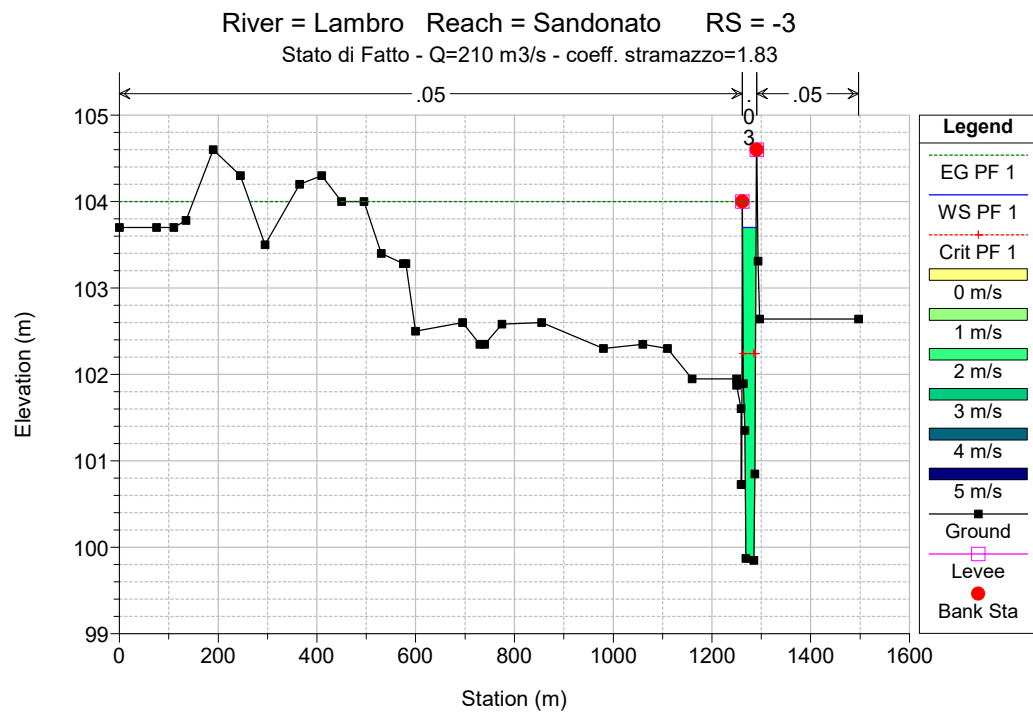
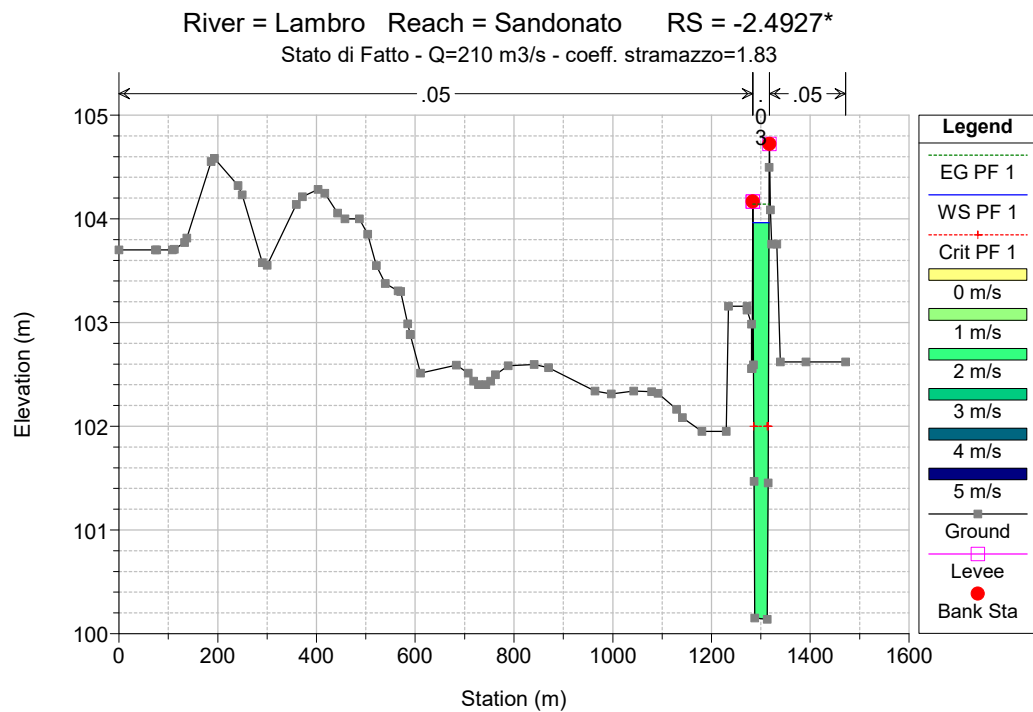






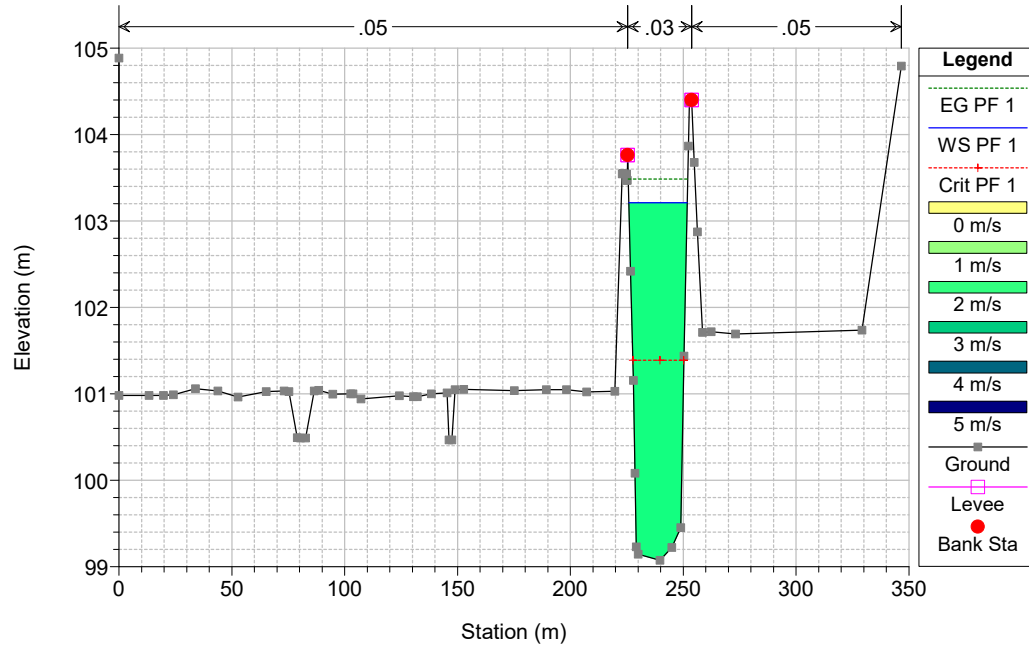






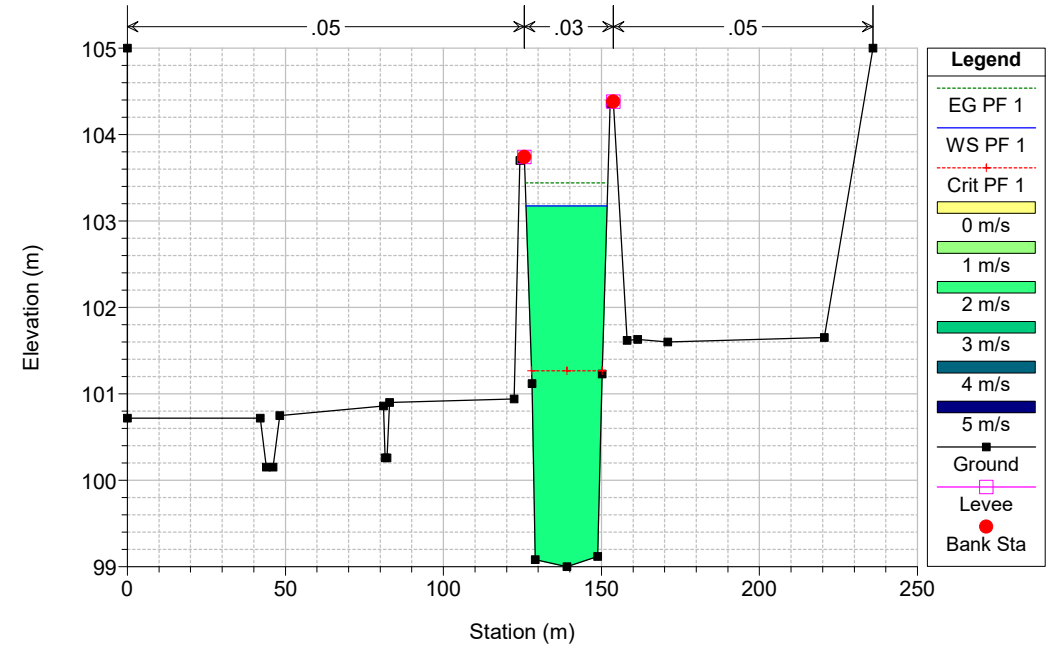
River = Lambro Reach = Sandonato RS = -3.9121*

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



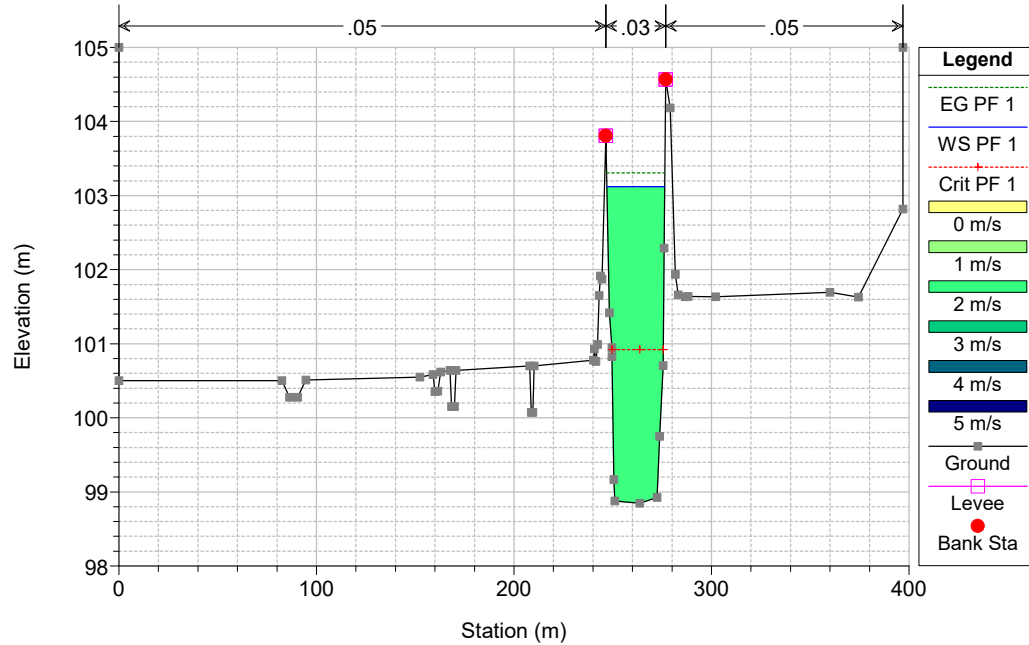
River = Lambro Reach = Sandonato RS = -4 SEZ. 68.1 AIPO

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



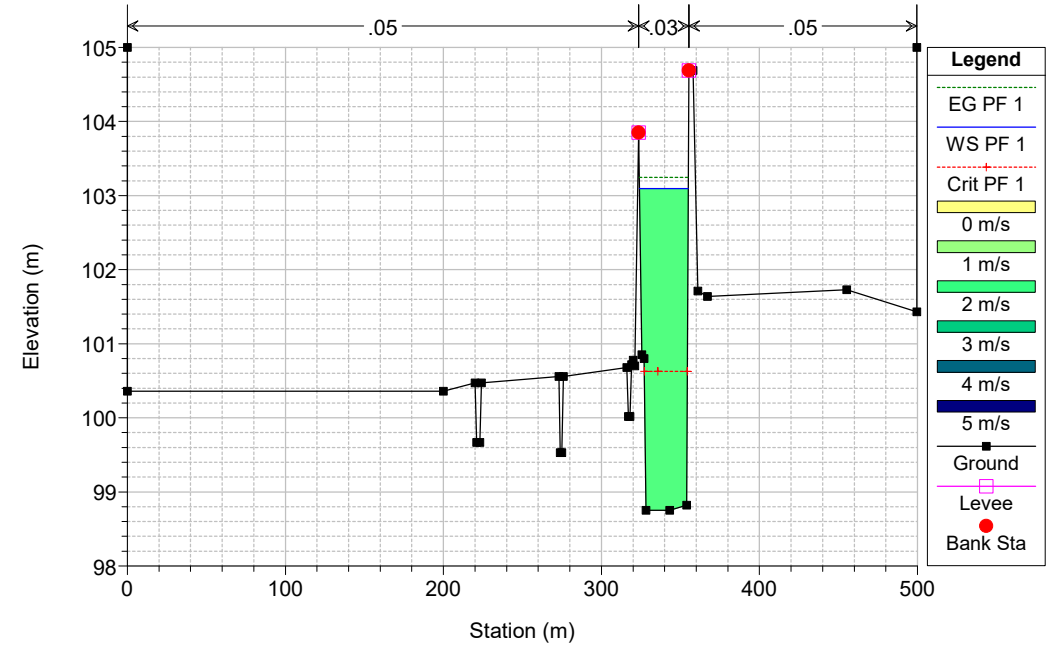
River = Lambro Reach = Sandonato RS = -4.6108*

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



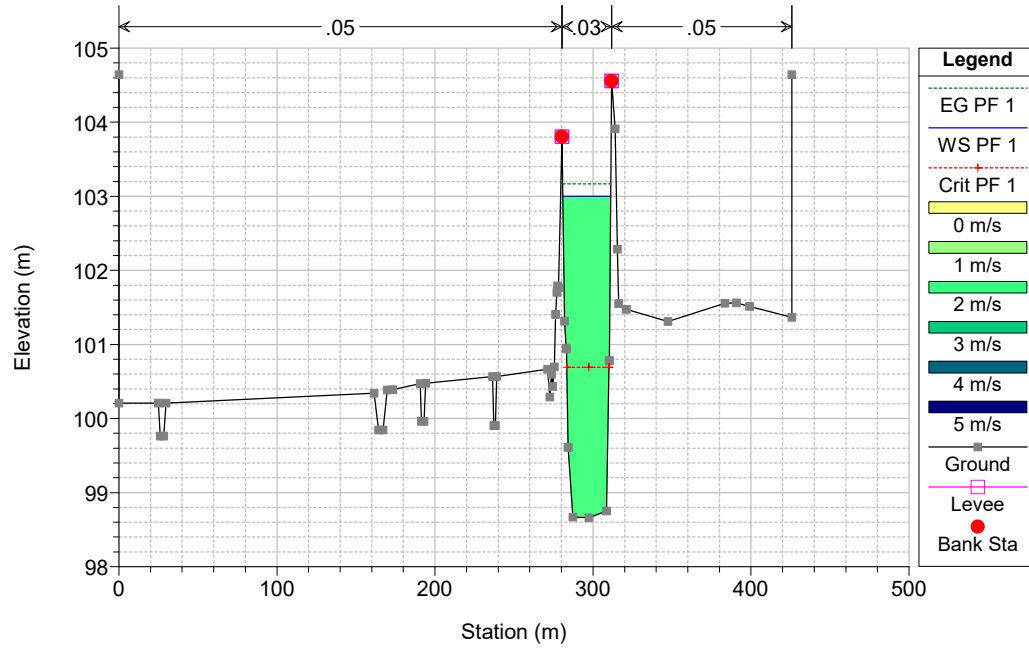
River = Lambro Reach = Sandonato RS = -5 SEZ. 68 AIPO

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



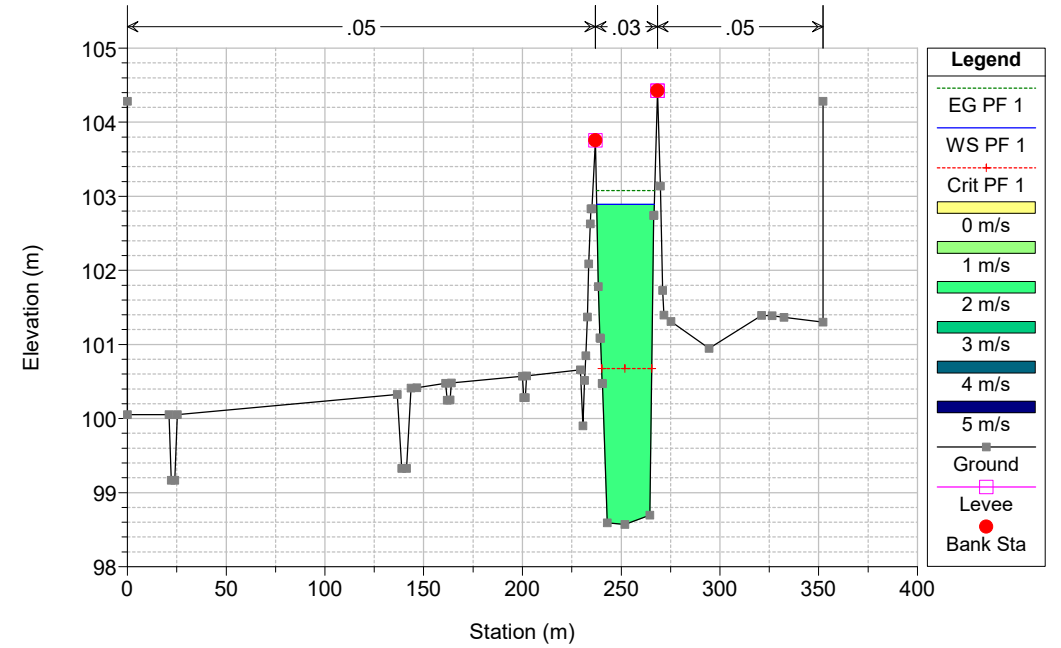
River = Lambro Reach = Sandonato RS = -5.0718*

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



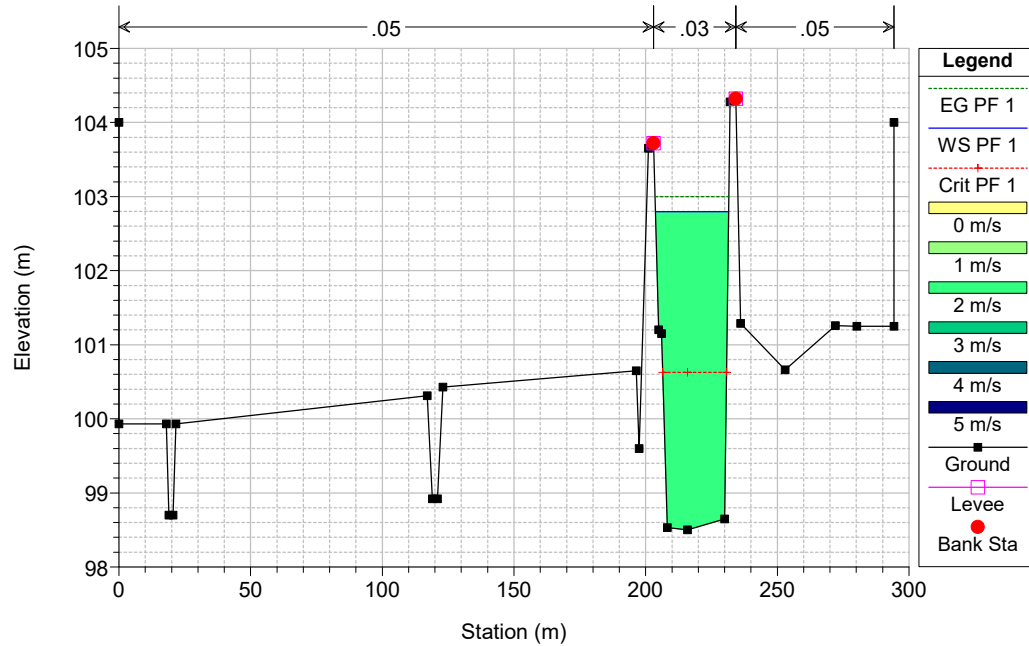
River = Lambro Reach = Sandonato RS = -5.1436*

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



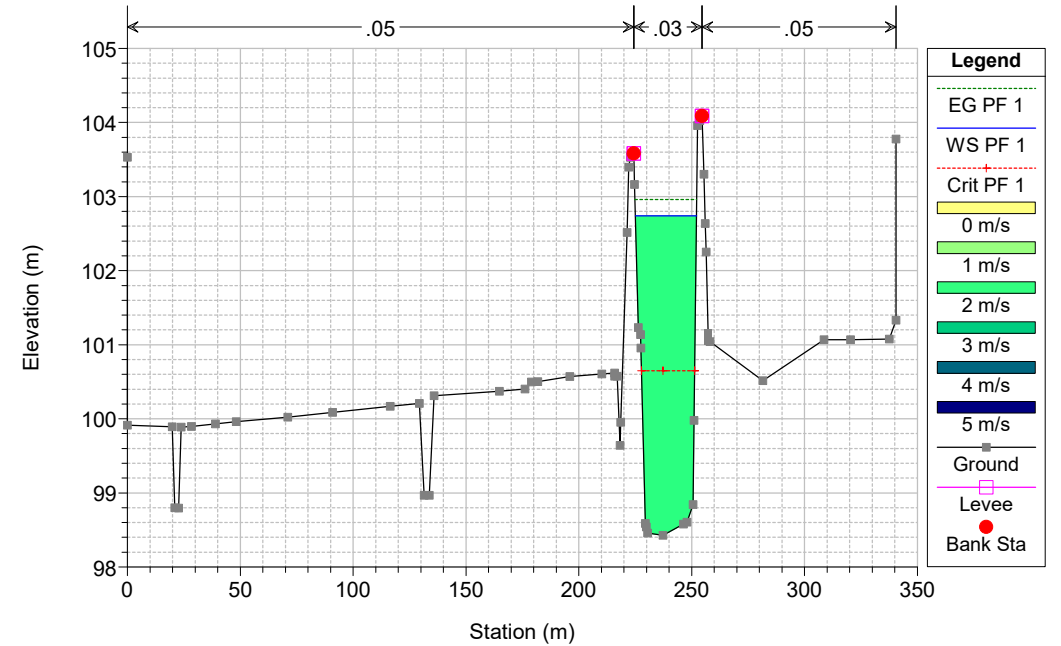
River = Lambro Reach = Sandonato RS = -5.2 SEZ. 67.1 AIPO

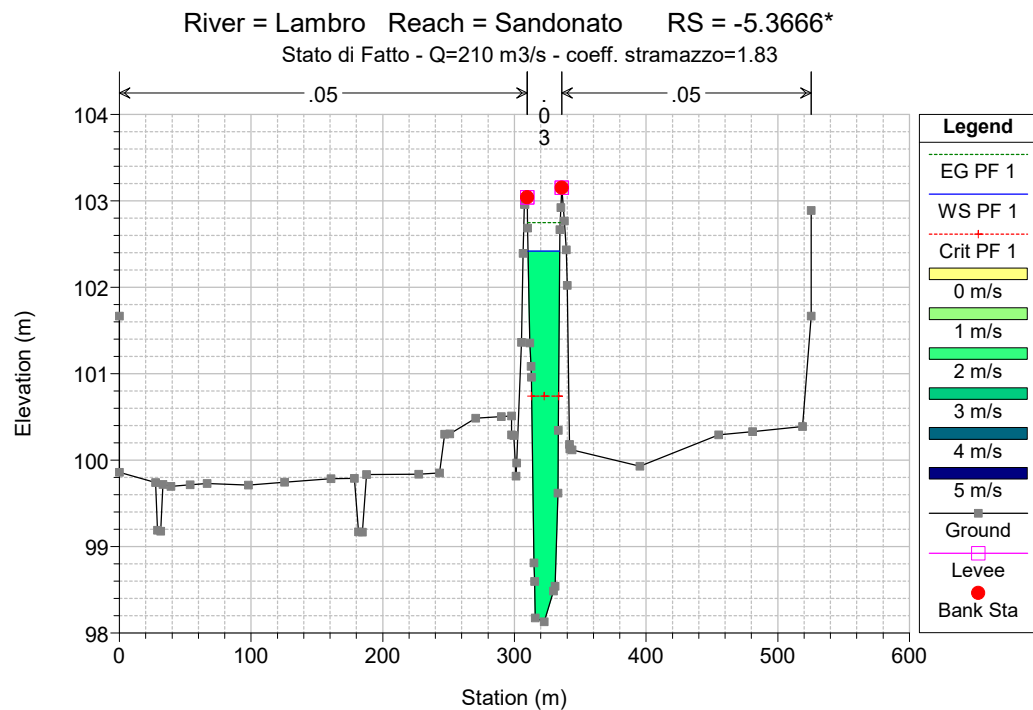
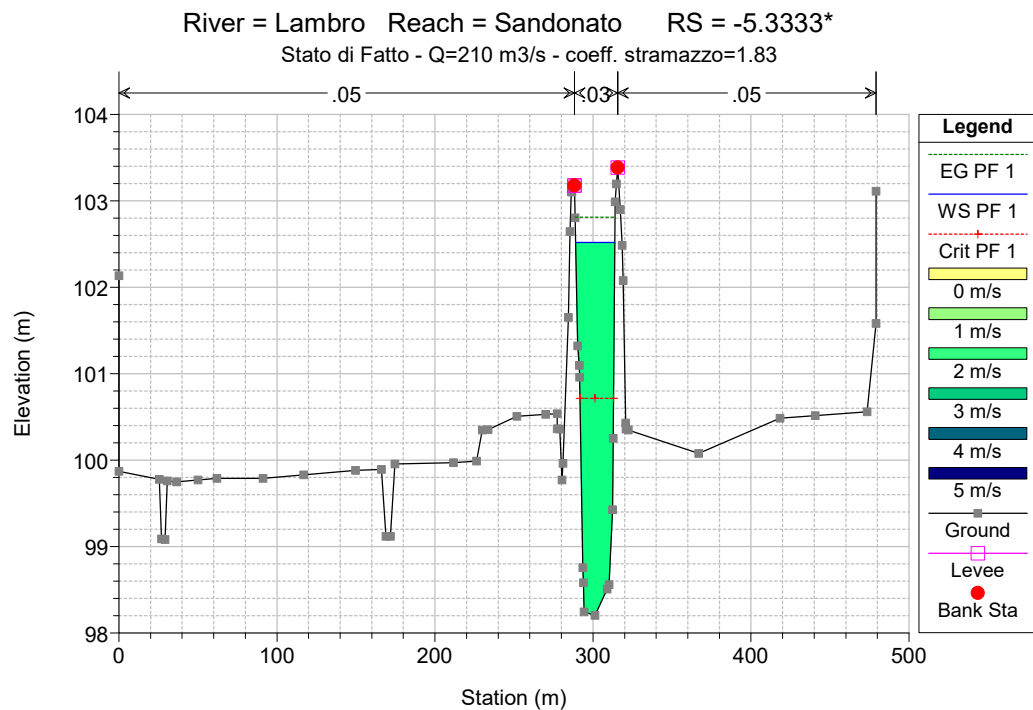
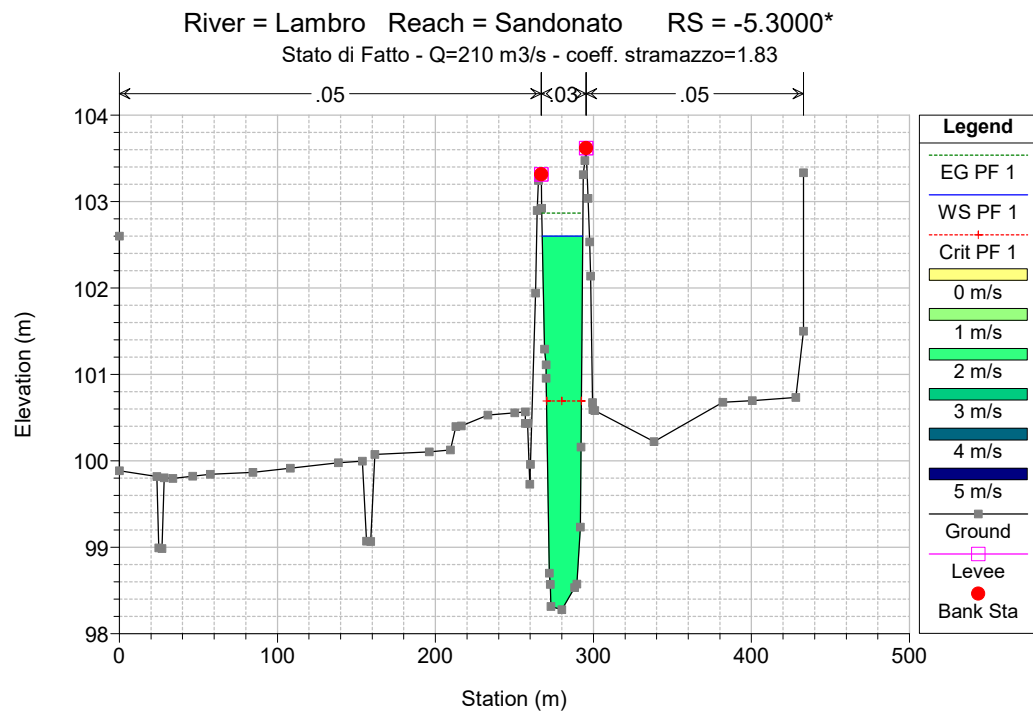
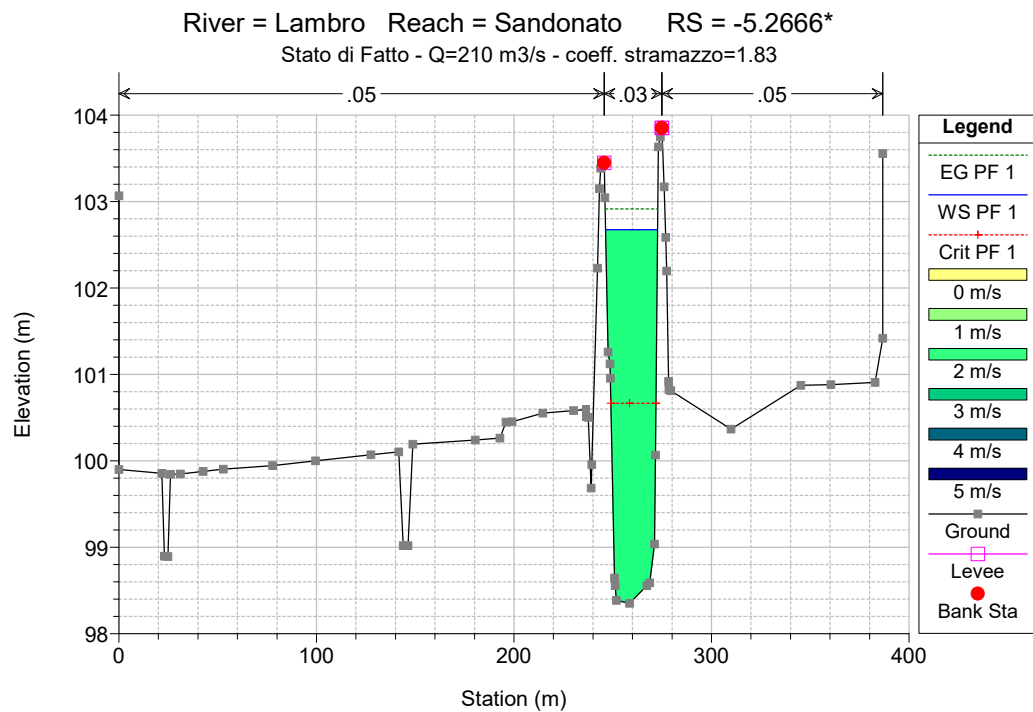
Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83

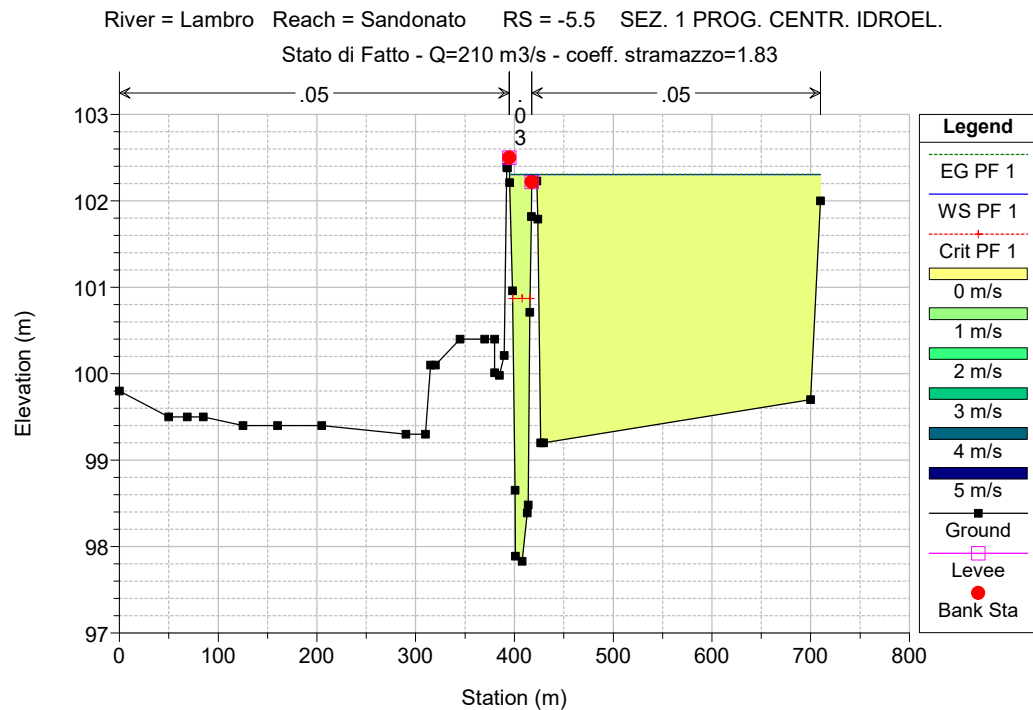
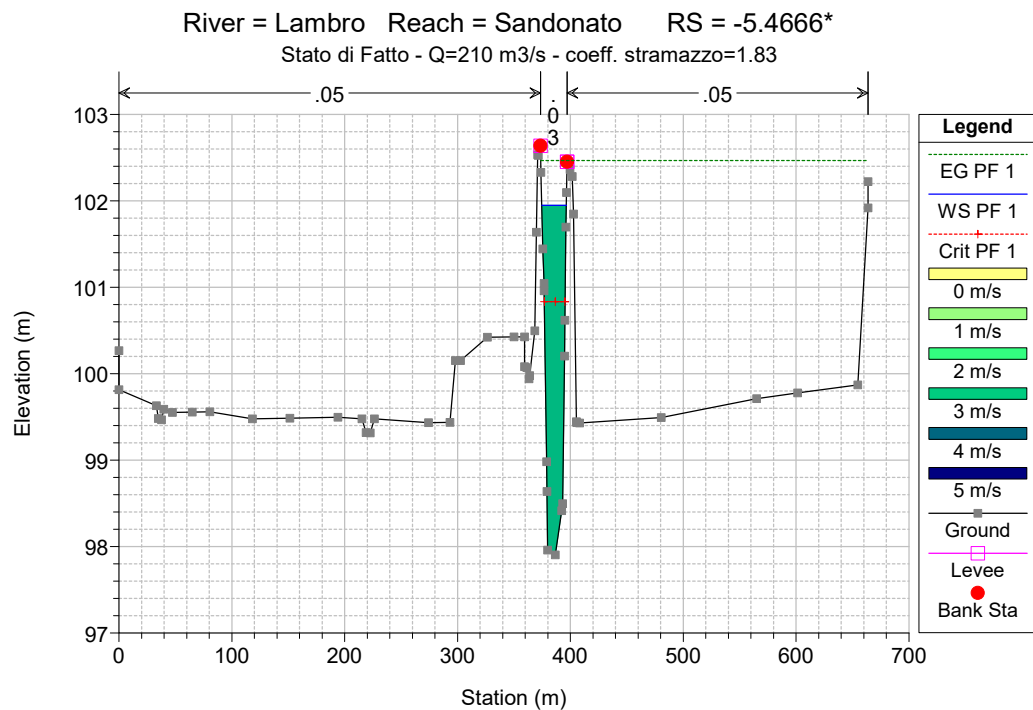
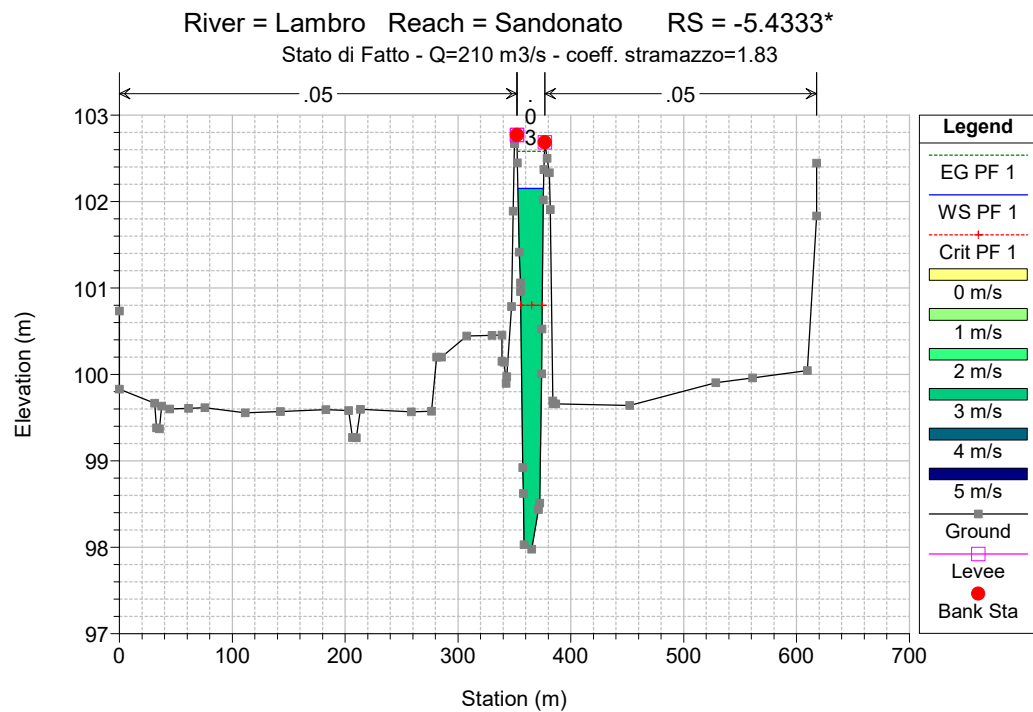
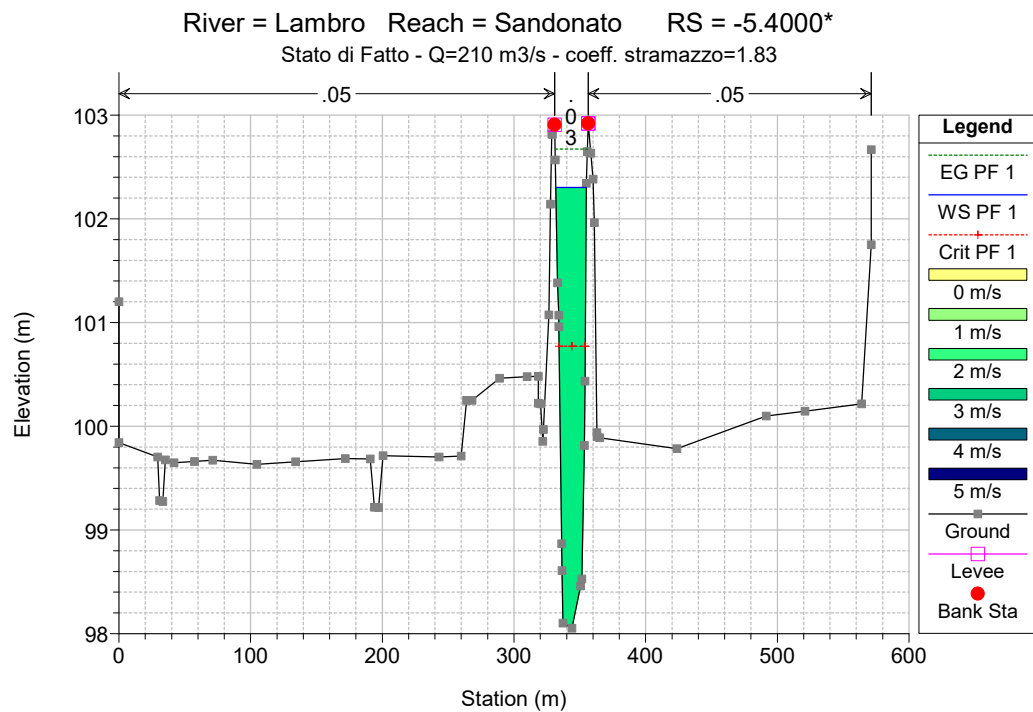


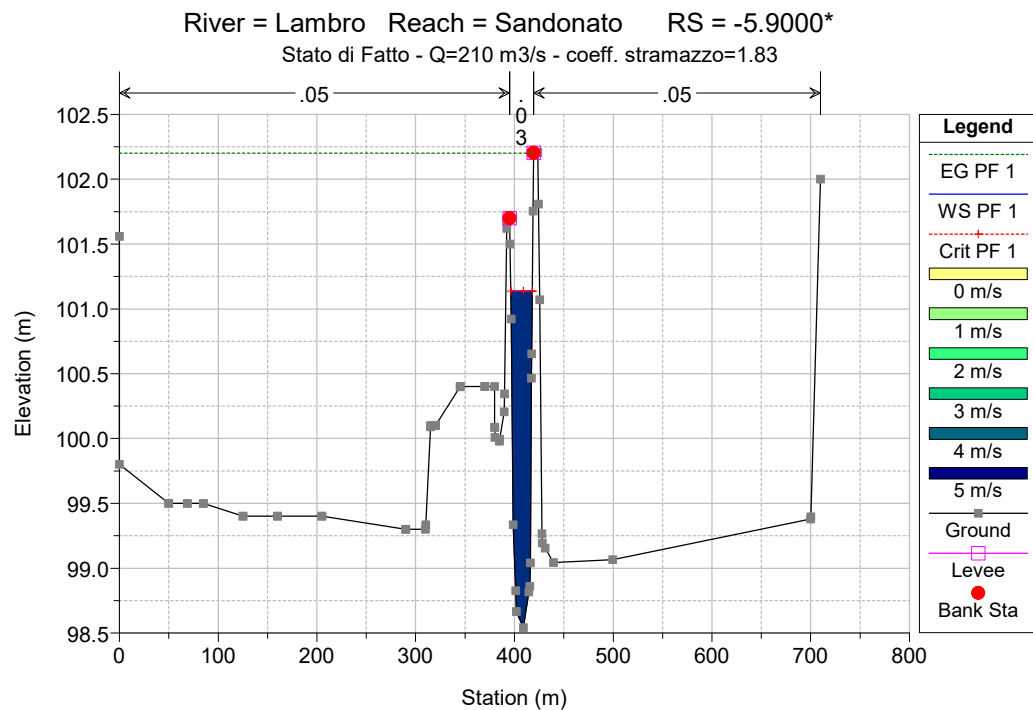
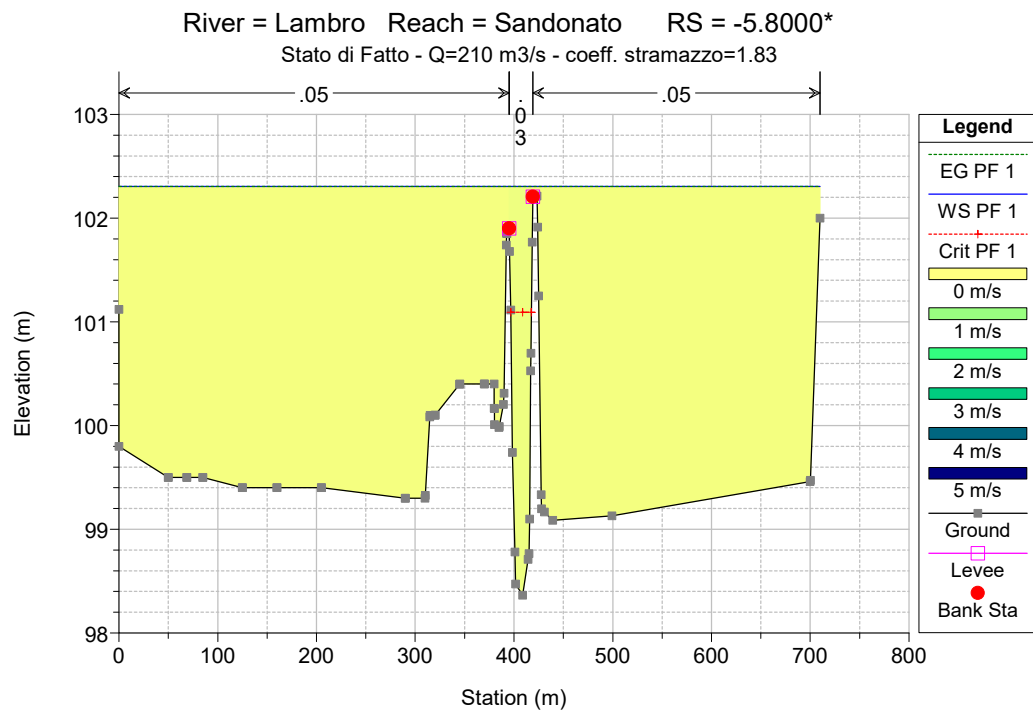
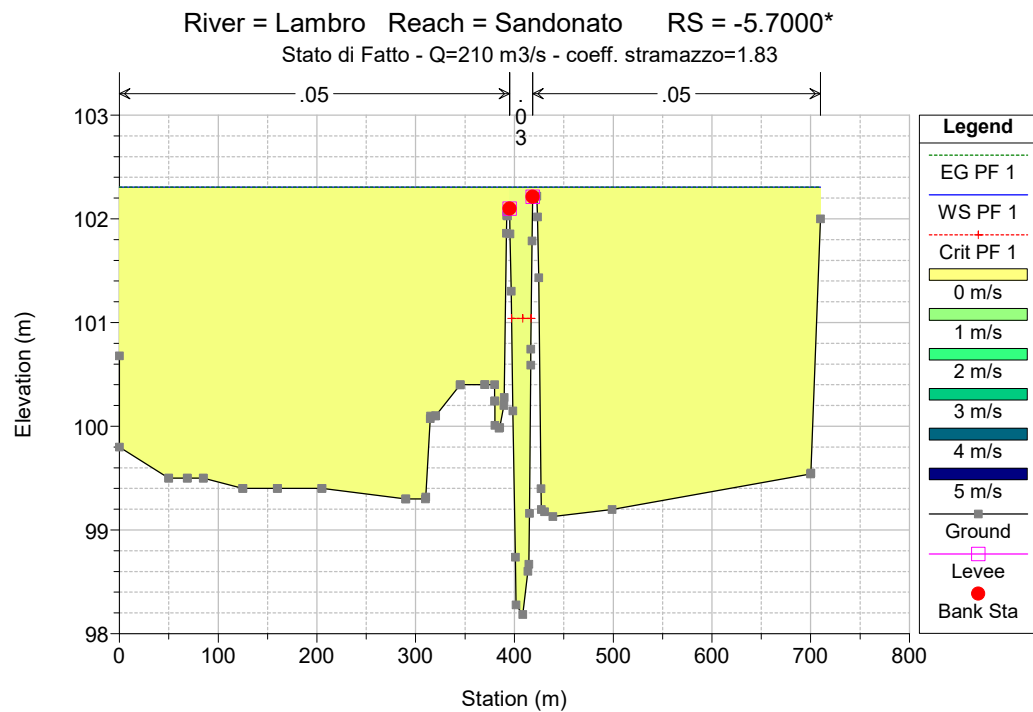
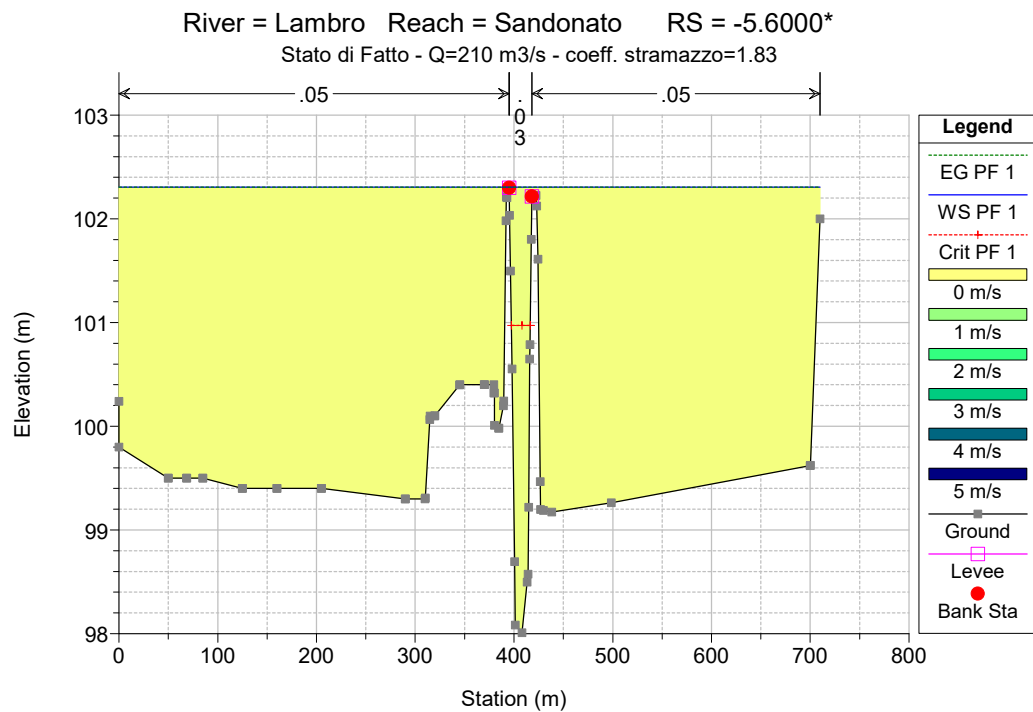
River = Lambro Reach = Sandonato RS = -5.2333*

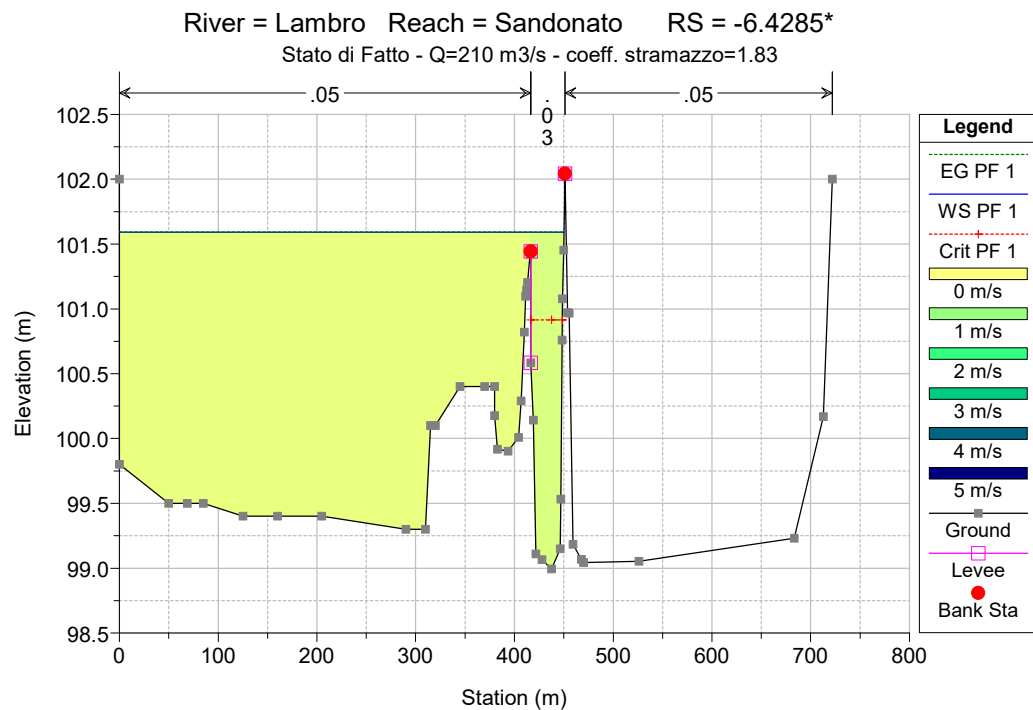
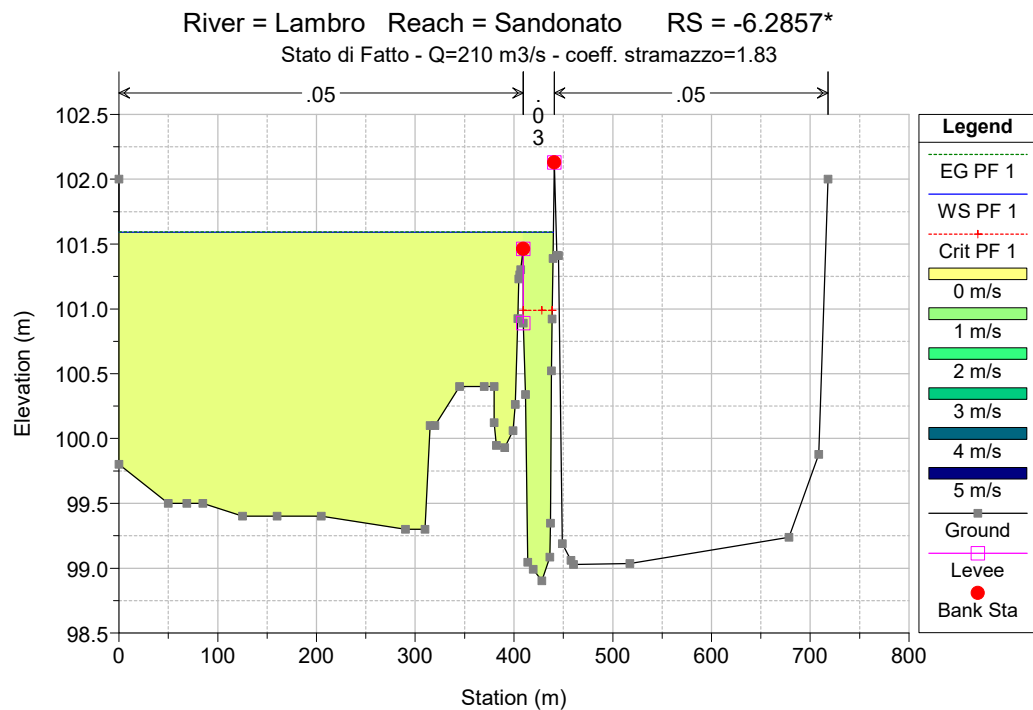
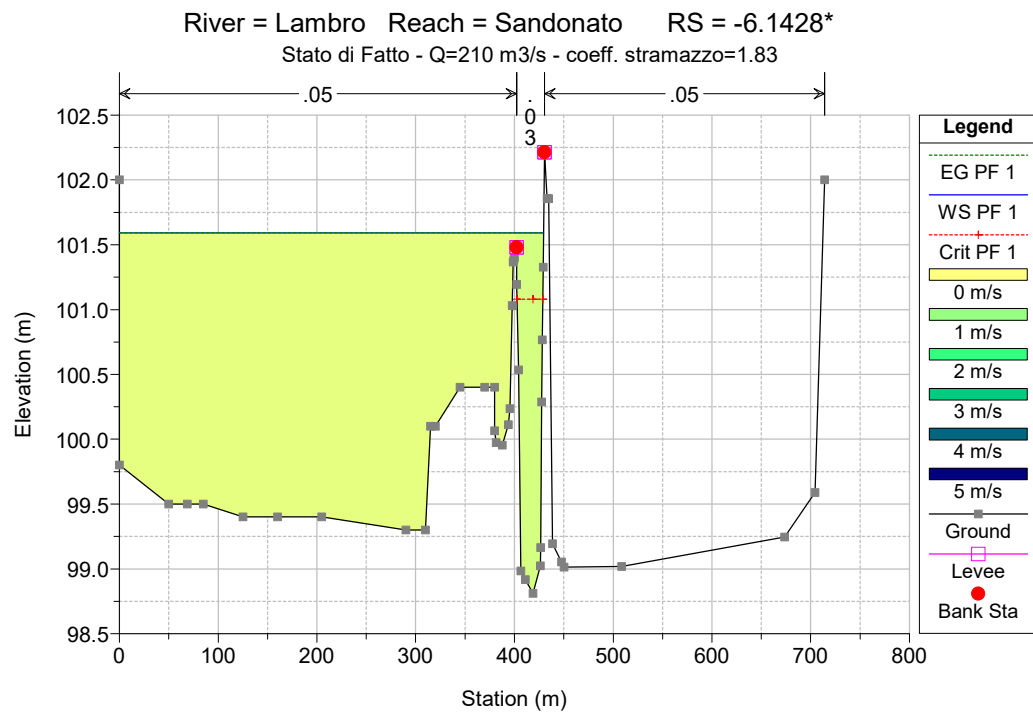
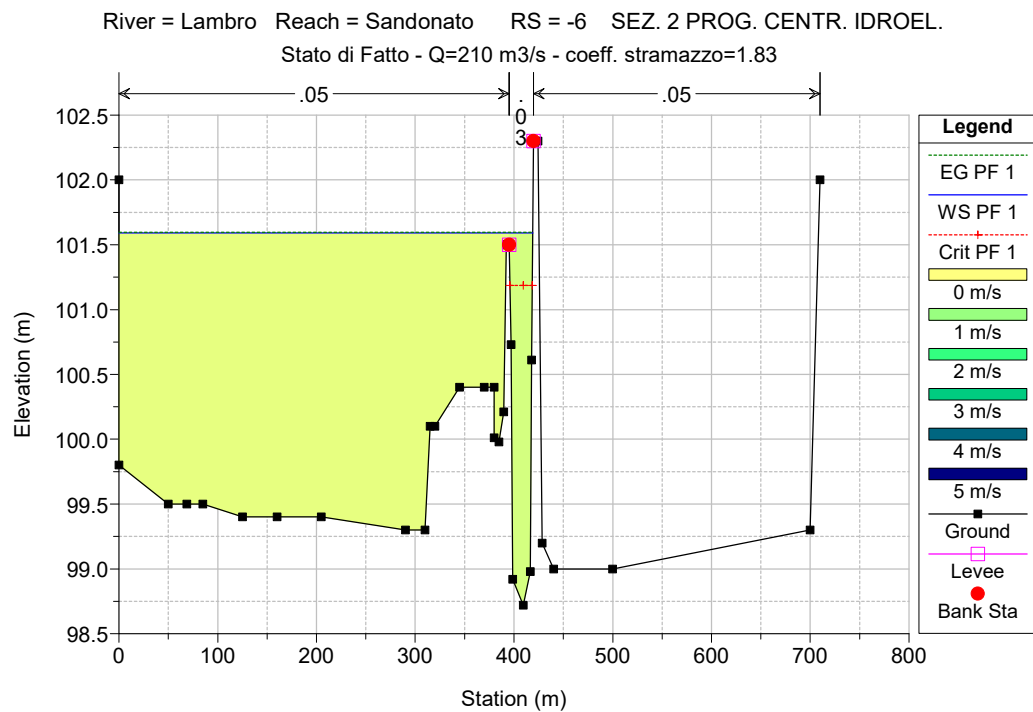
Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83

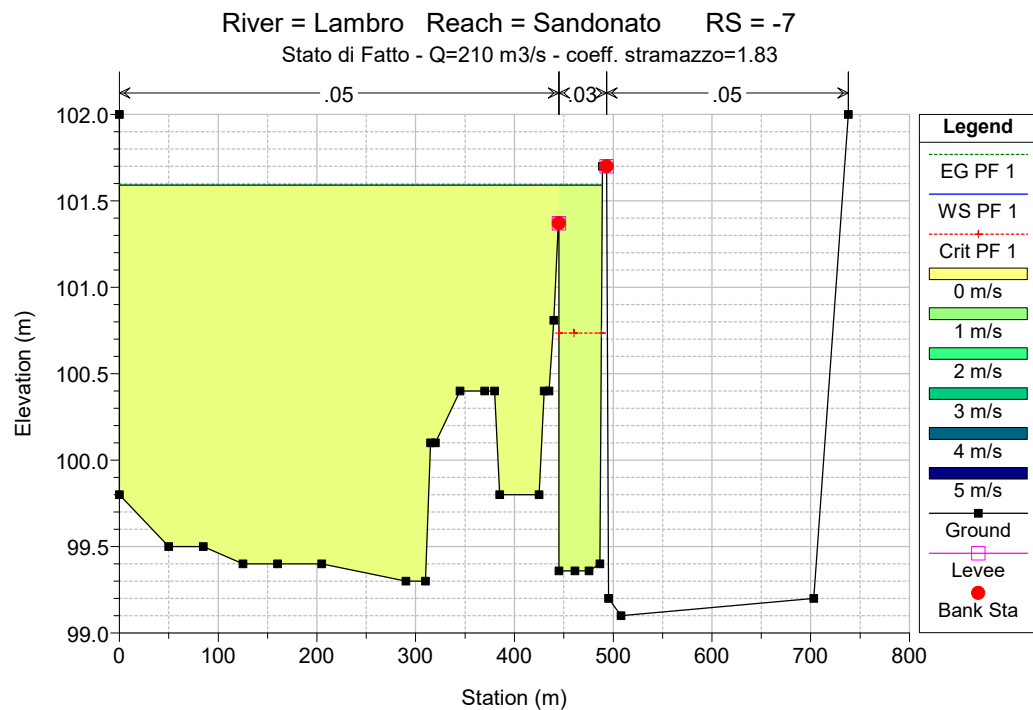
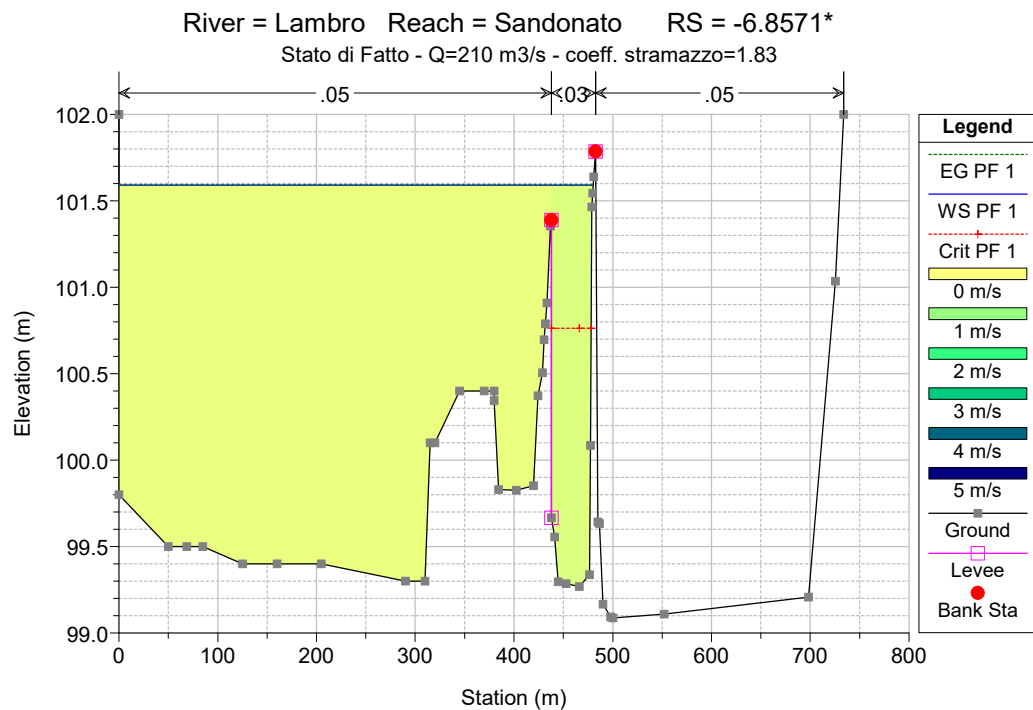
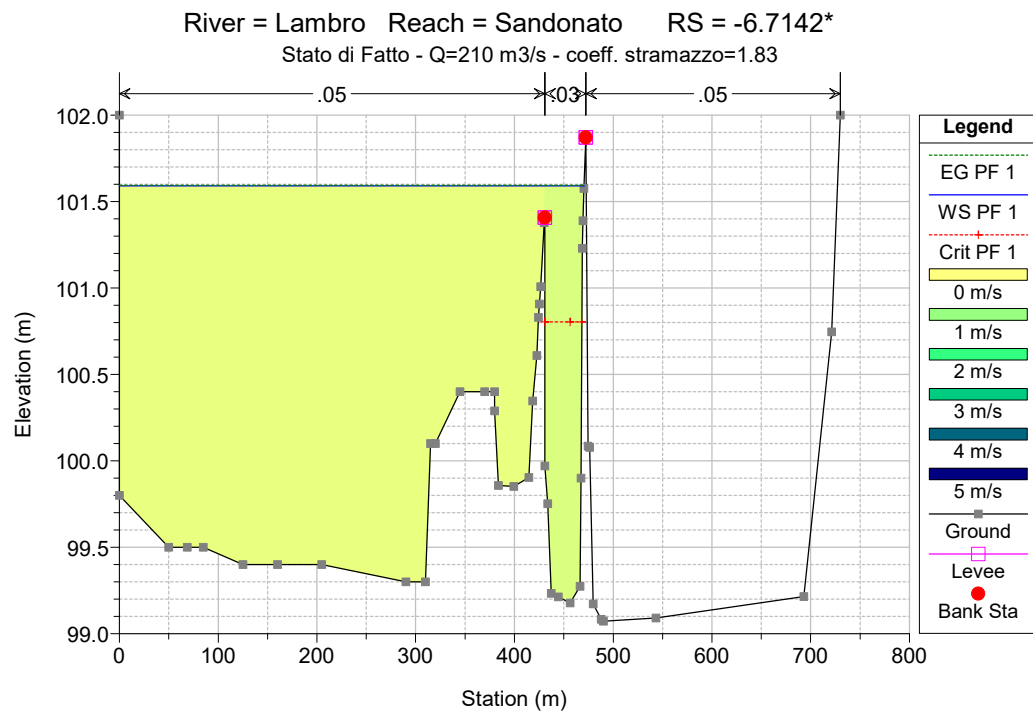
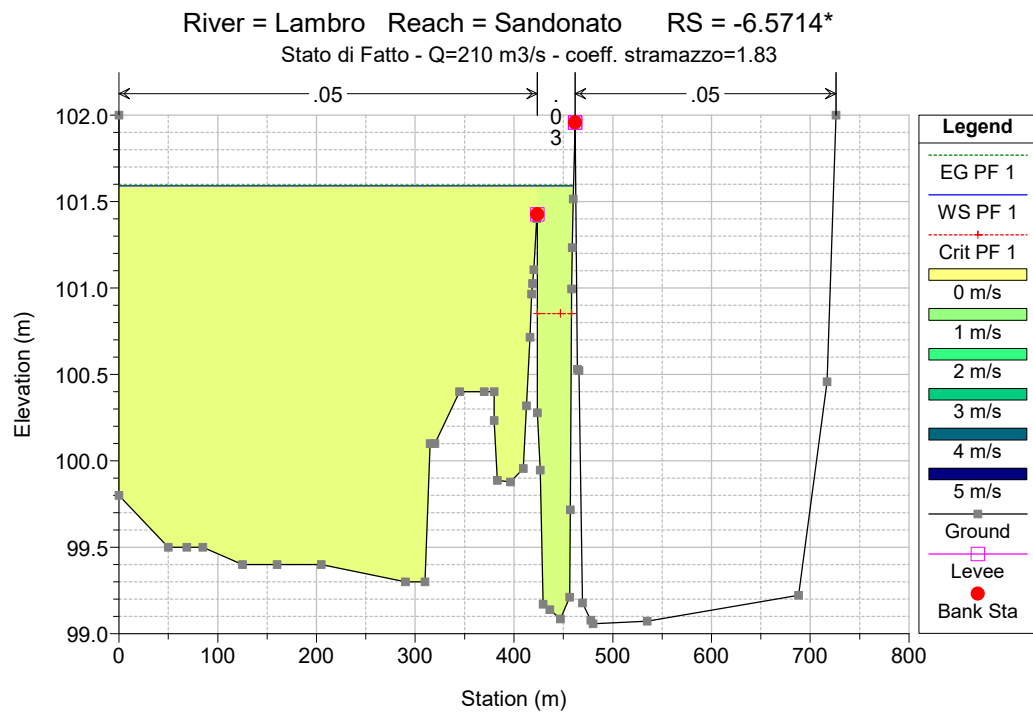






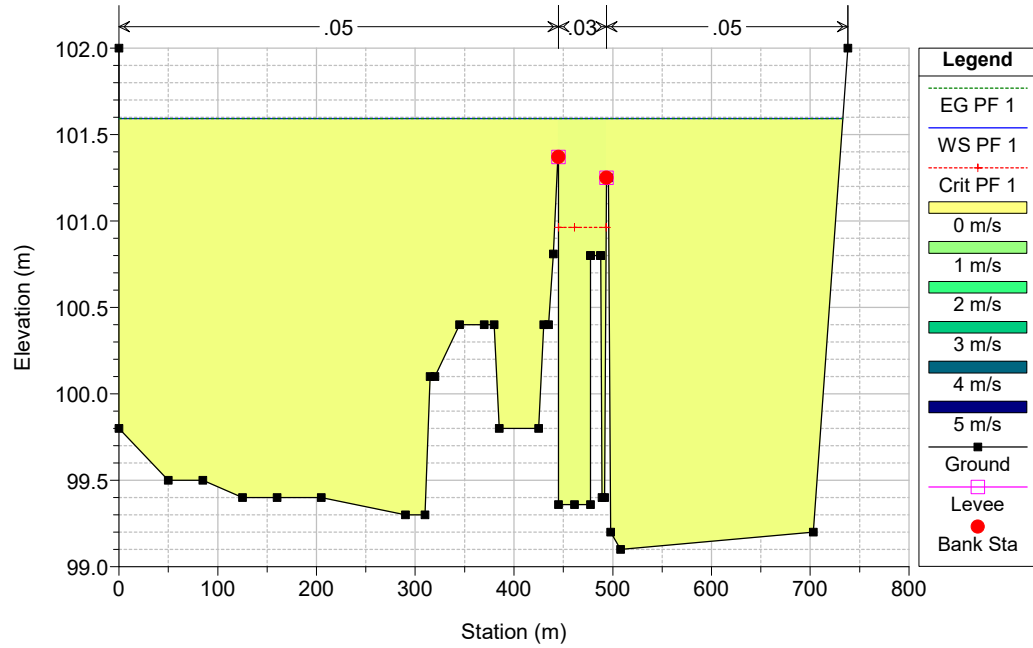






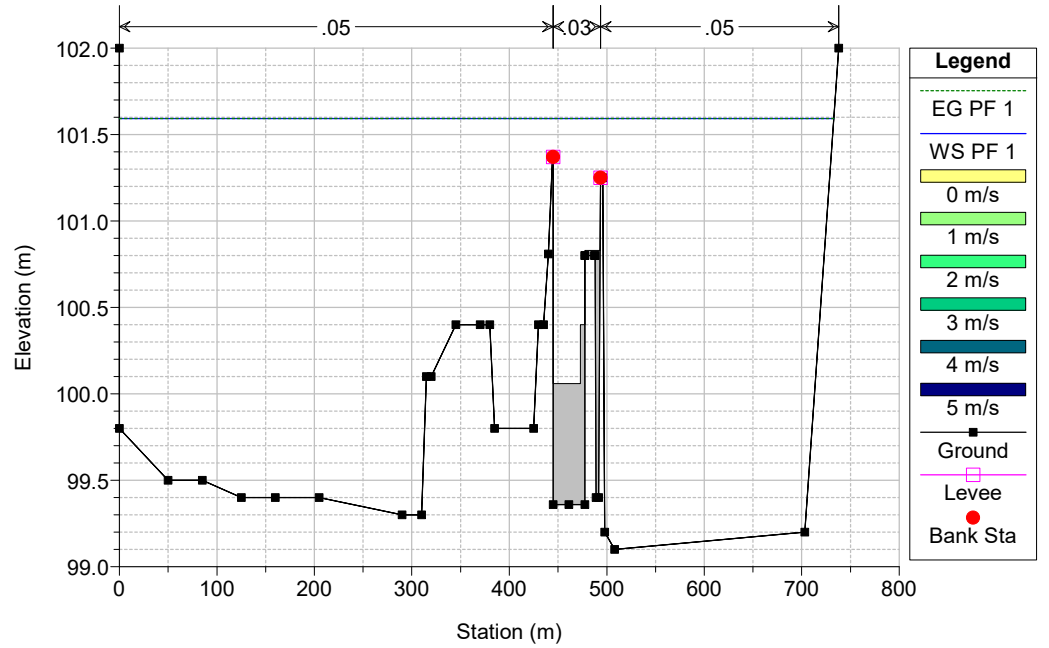
River = Lambro Reach = Sandonato RS = -8

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



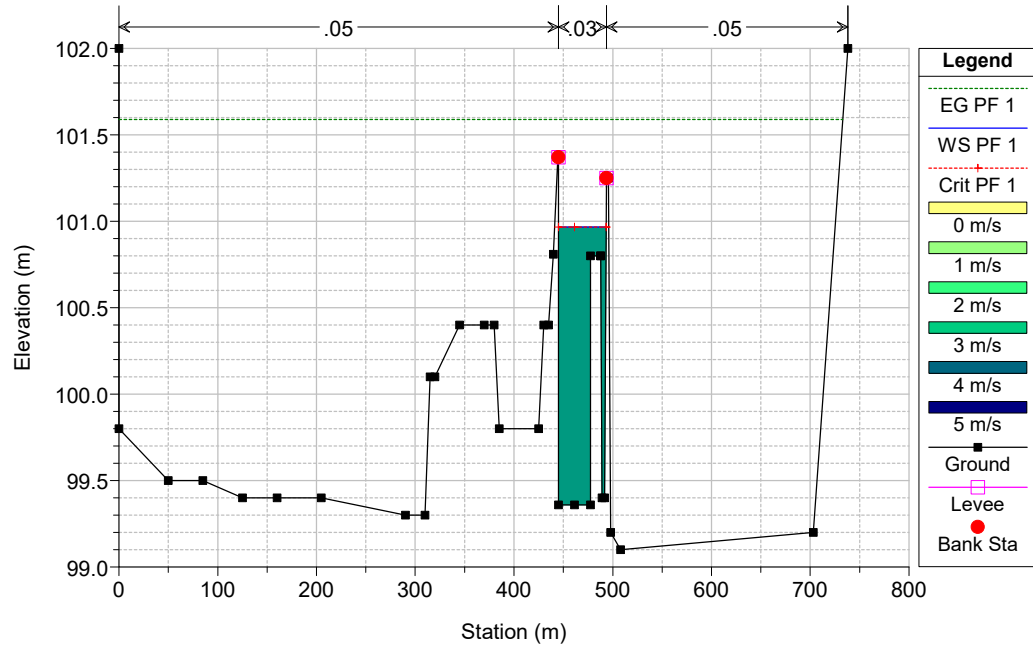
River = Lambro Reach = Sandonato RS = -8.3 IS Traversa di Belgiano

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



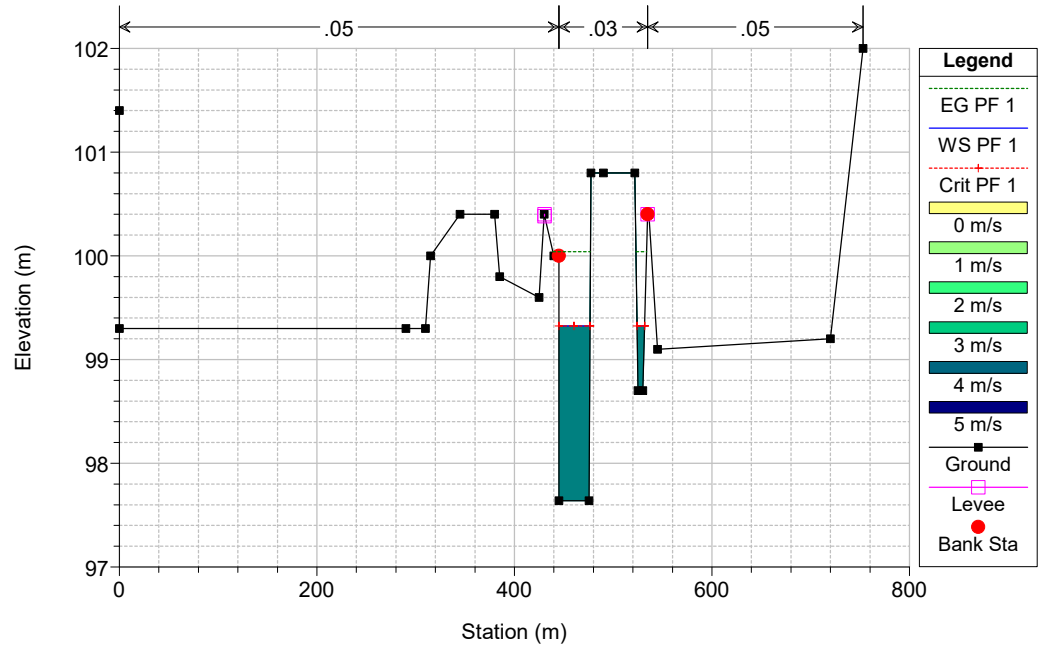
River = Lambro Reach = Sandonato RS = -8.5

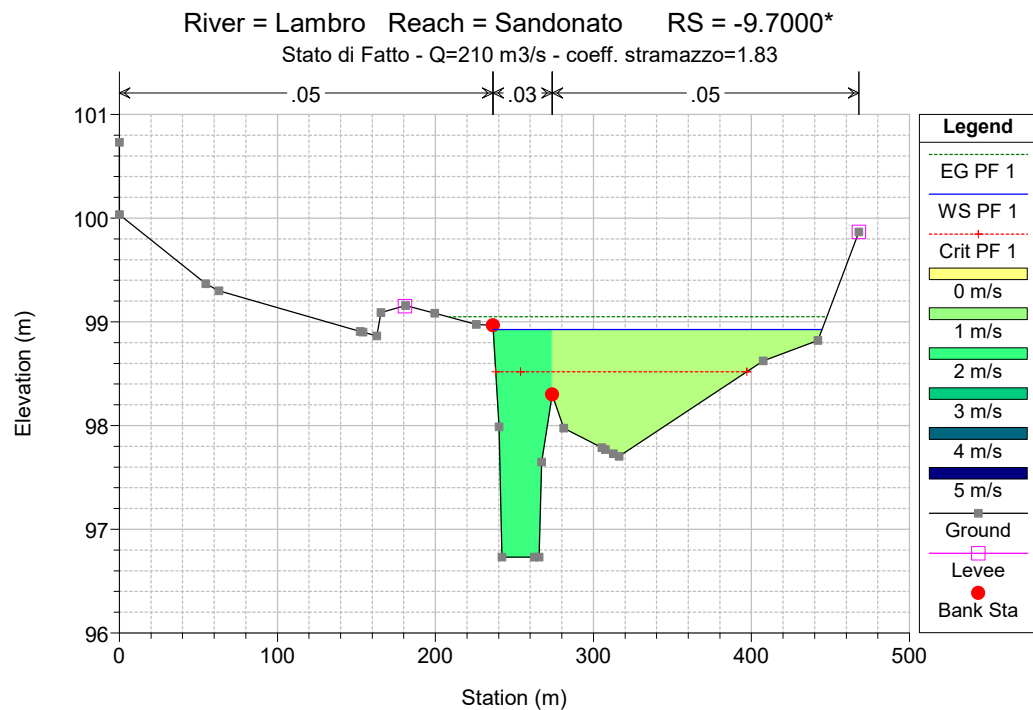
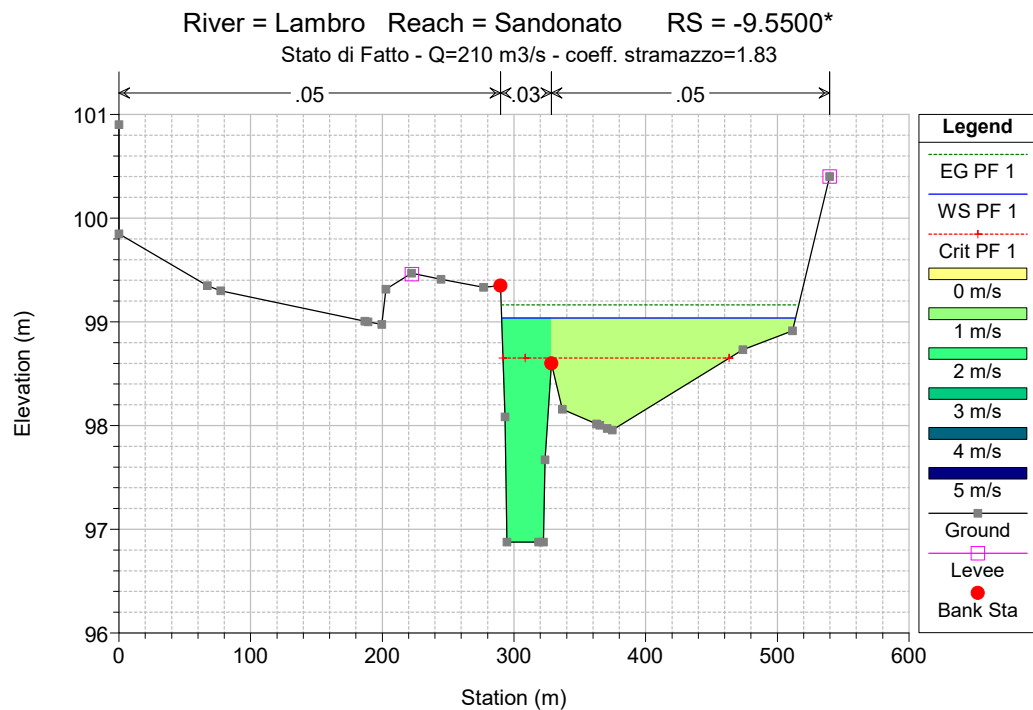
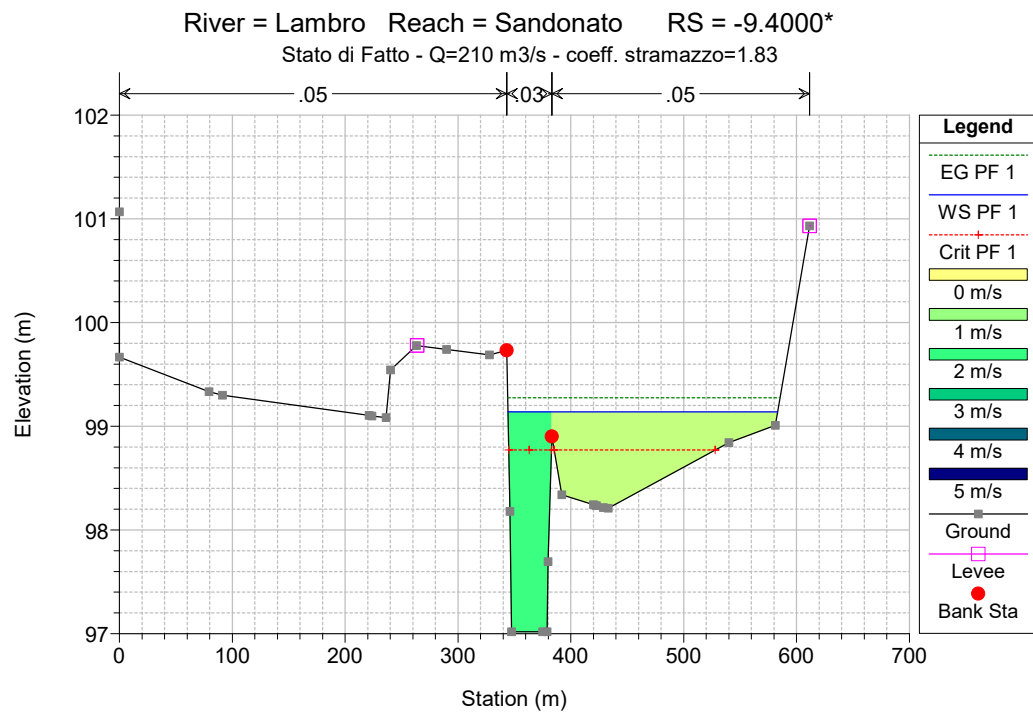
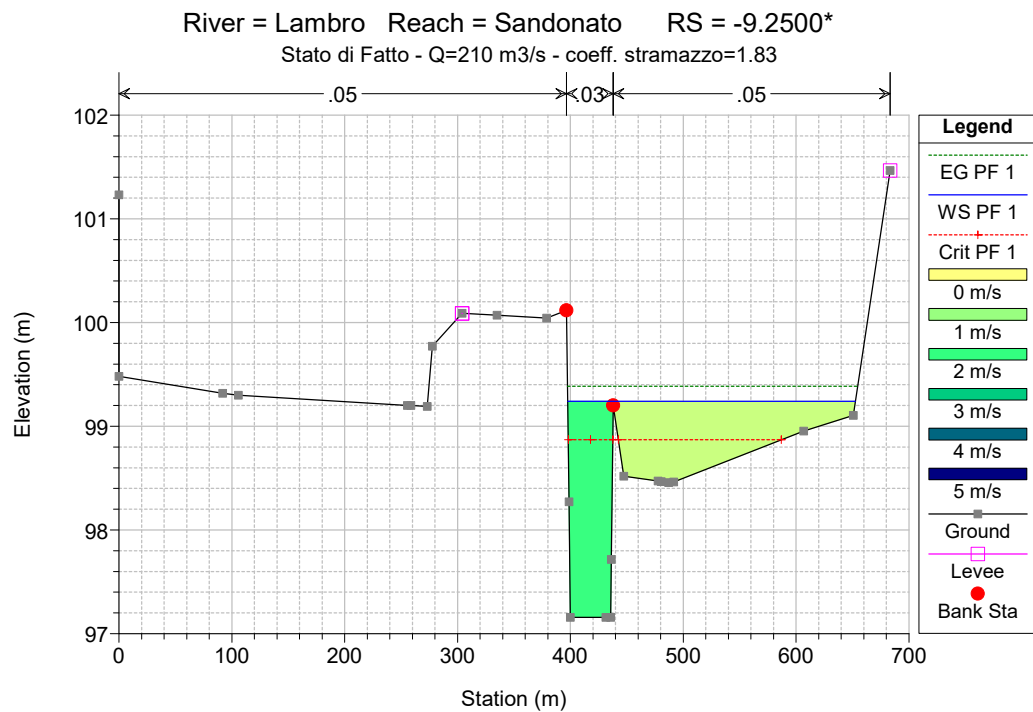
Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83

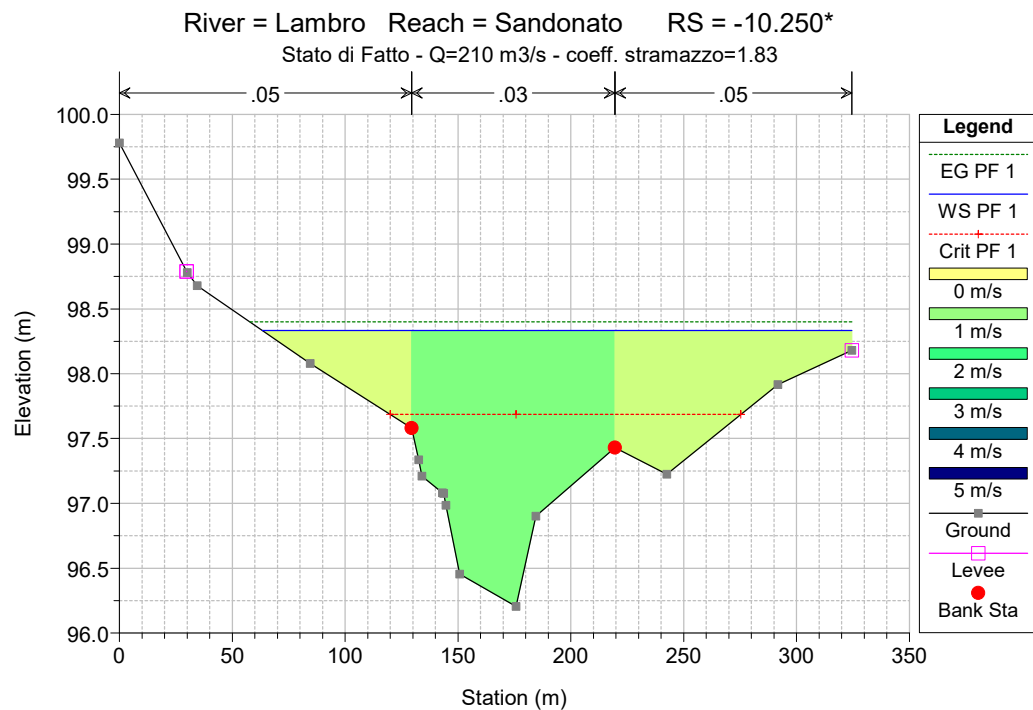
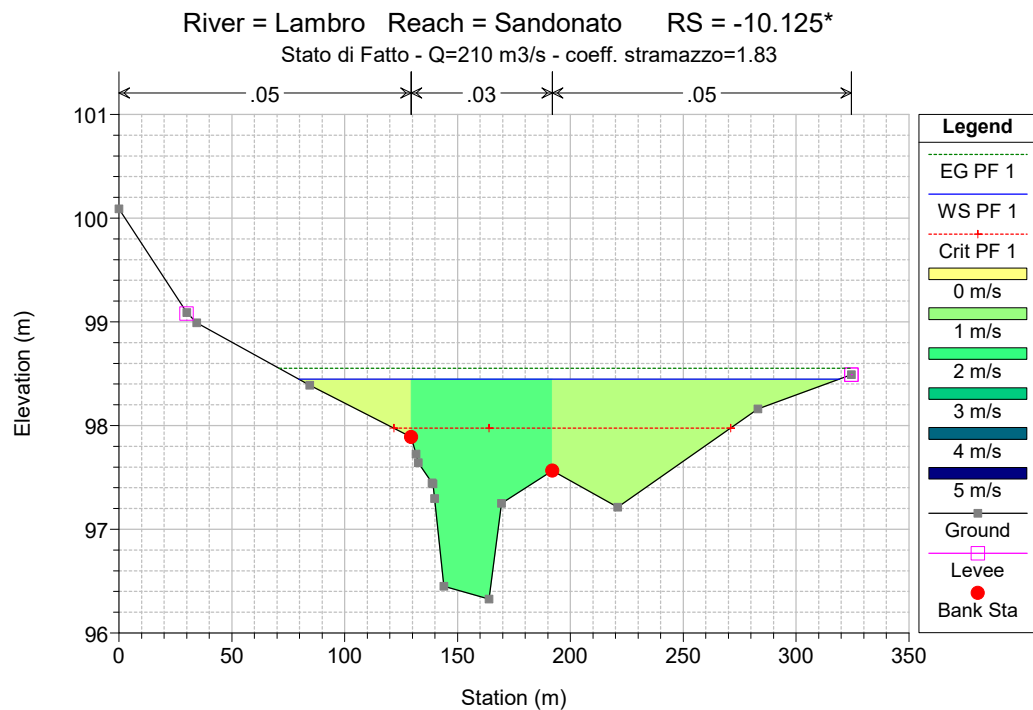
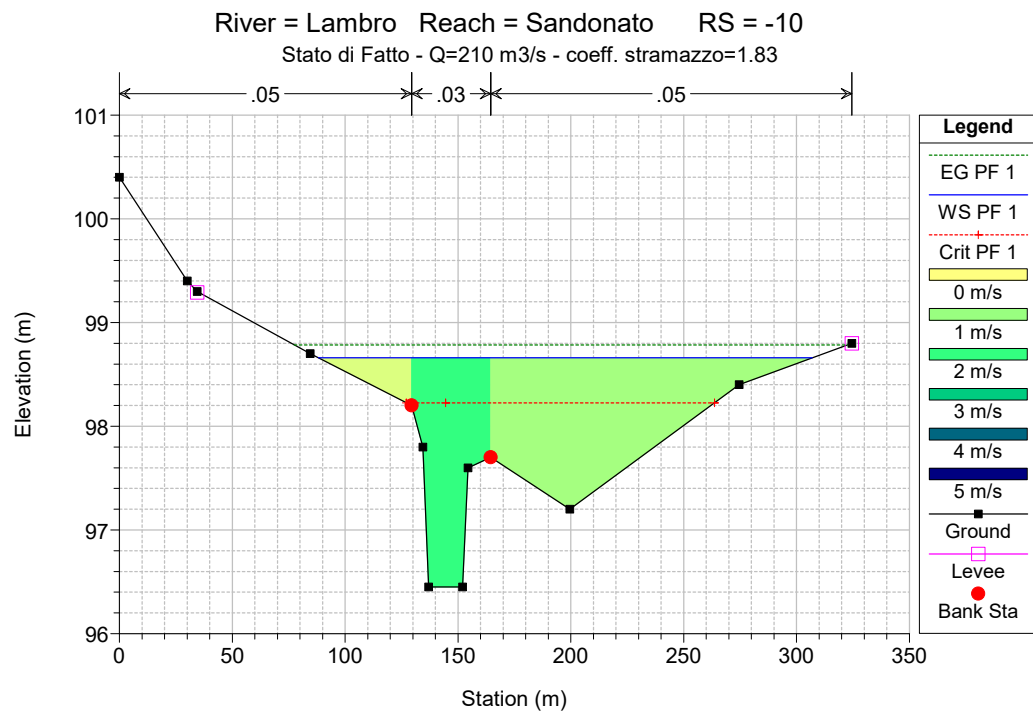
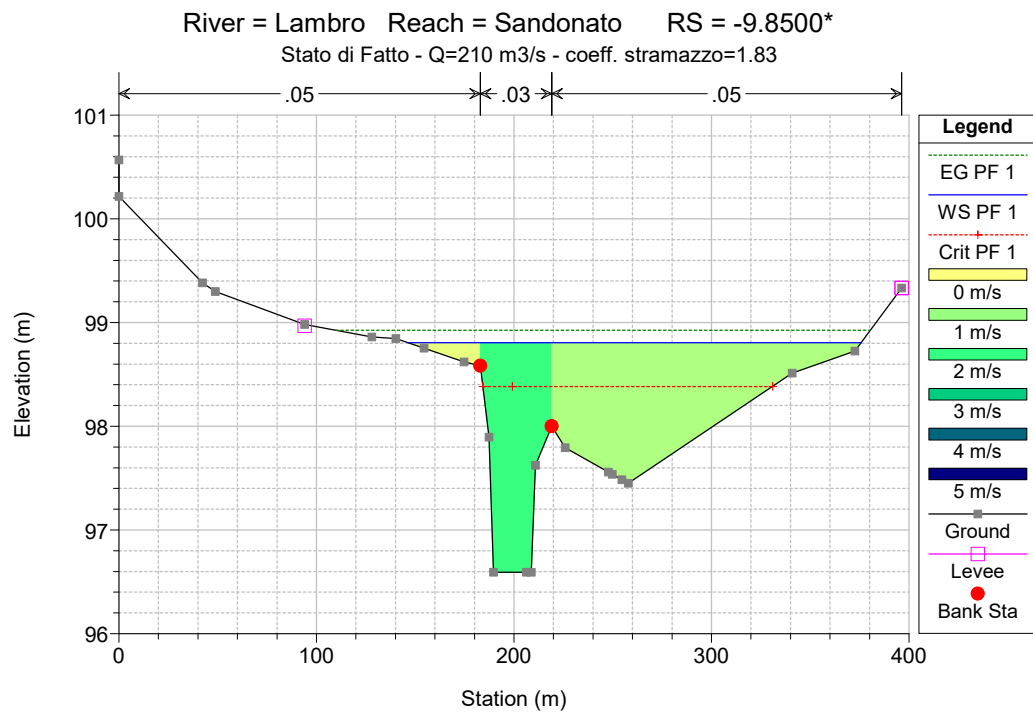


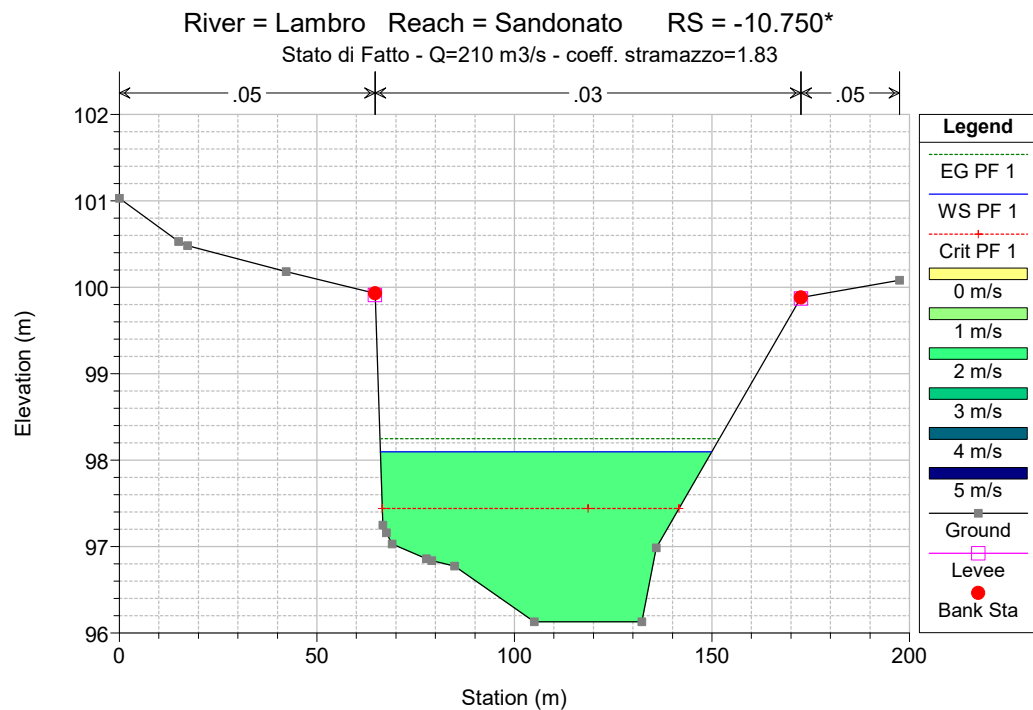
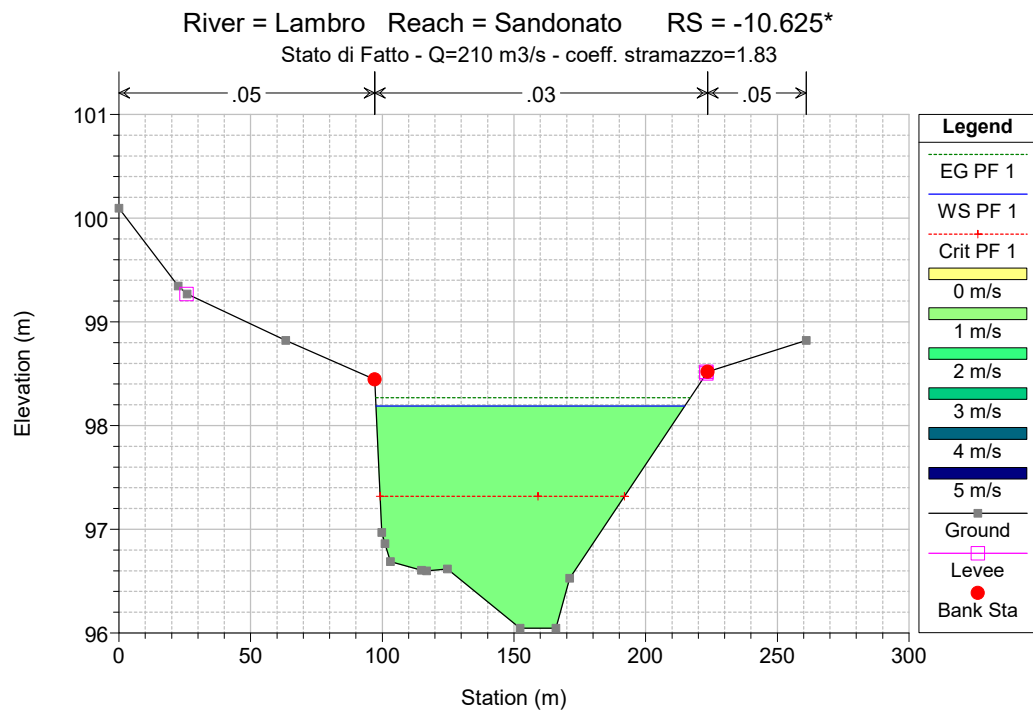
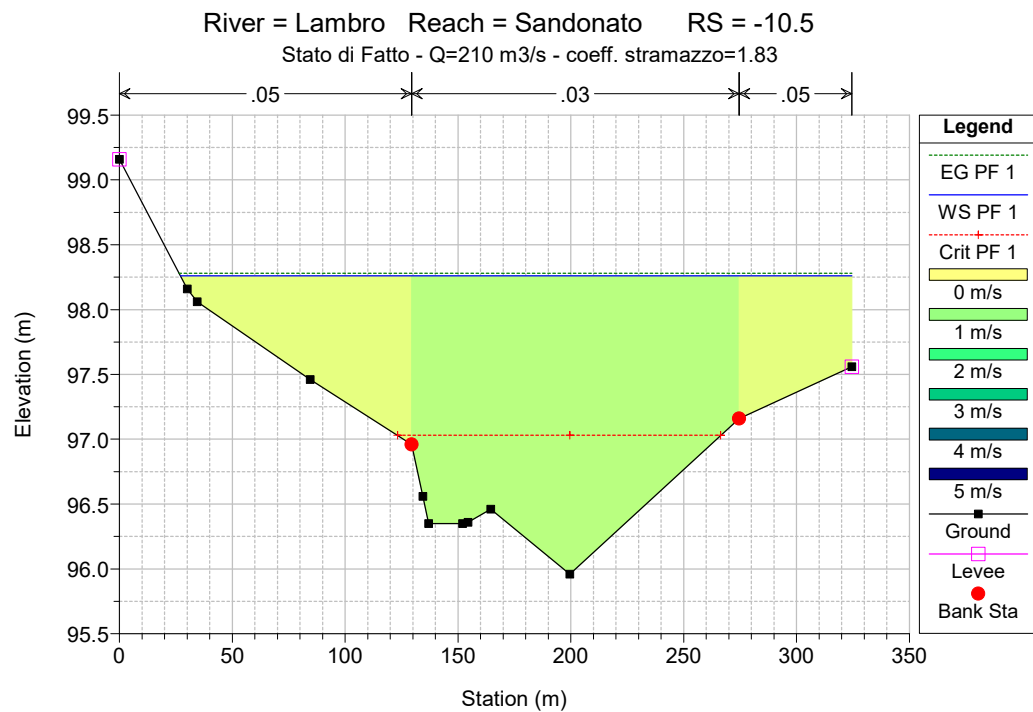
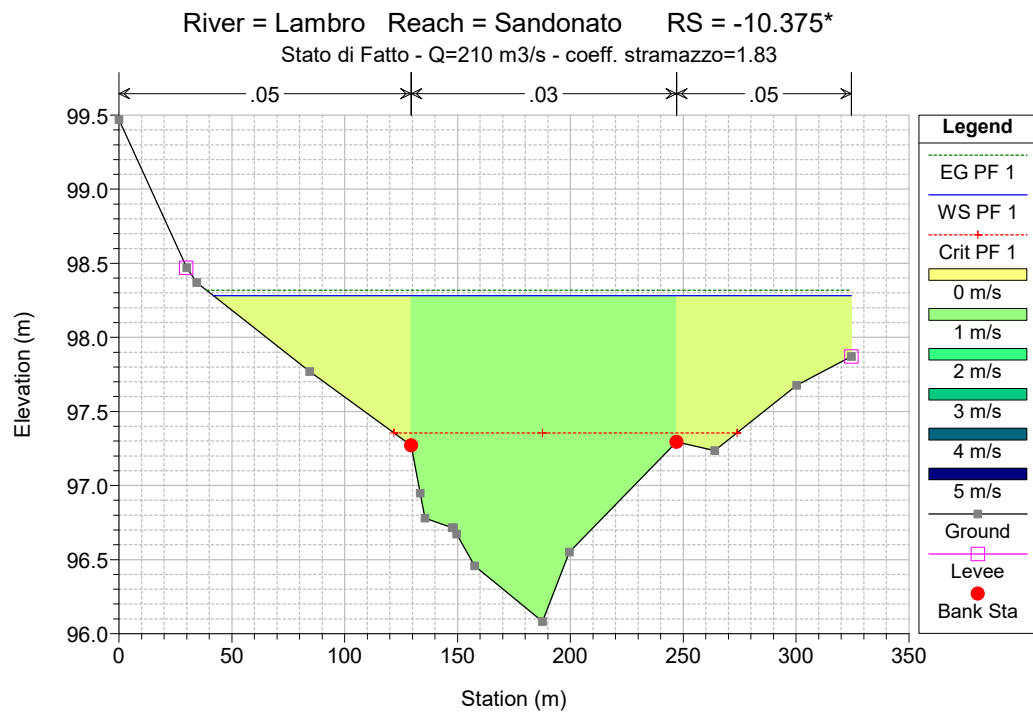
River = Lambro Reach = Sandonato RS = -9

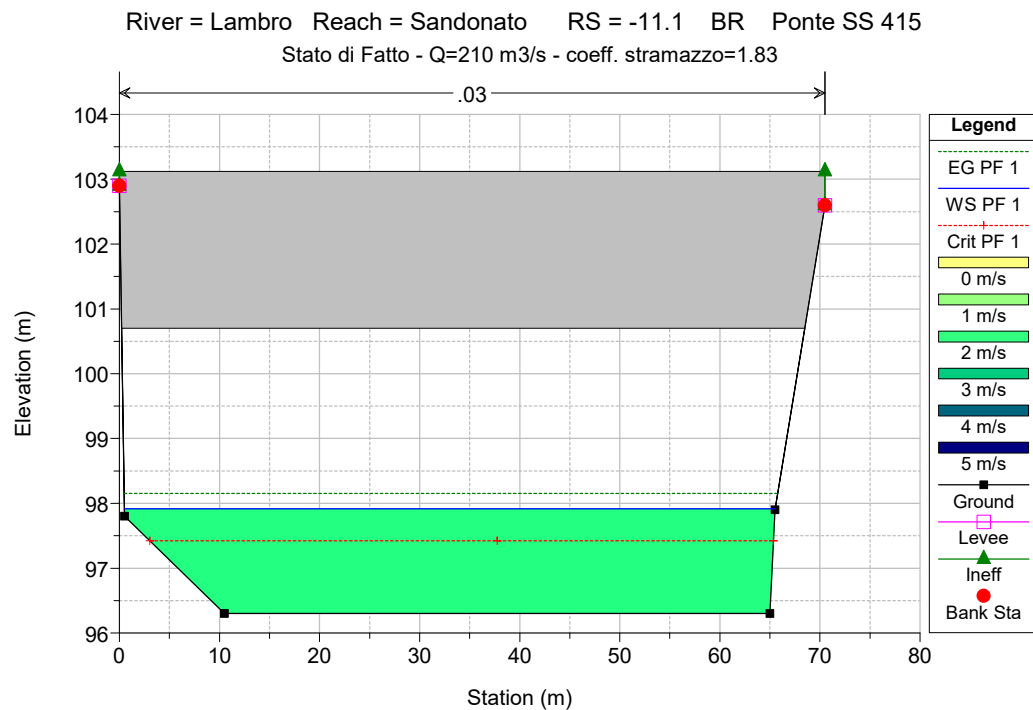
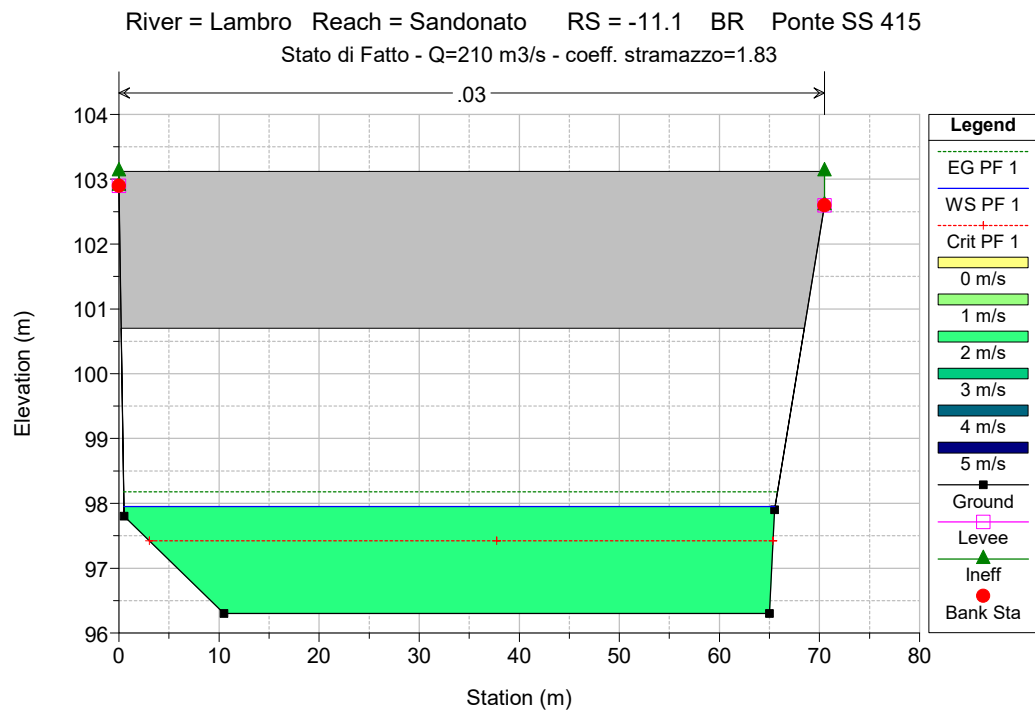
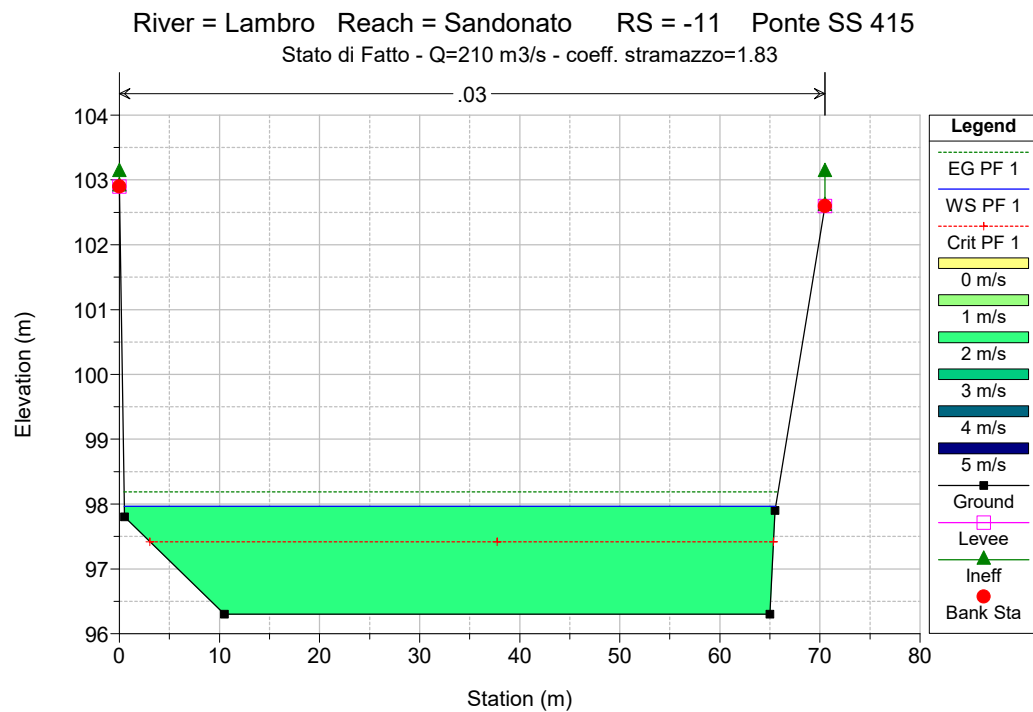
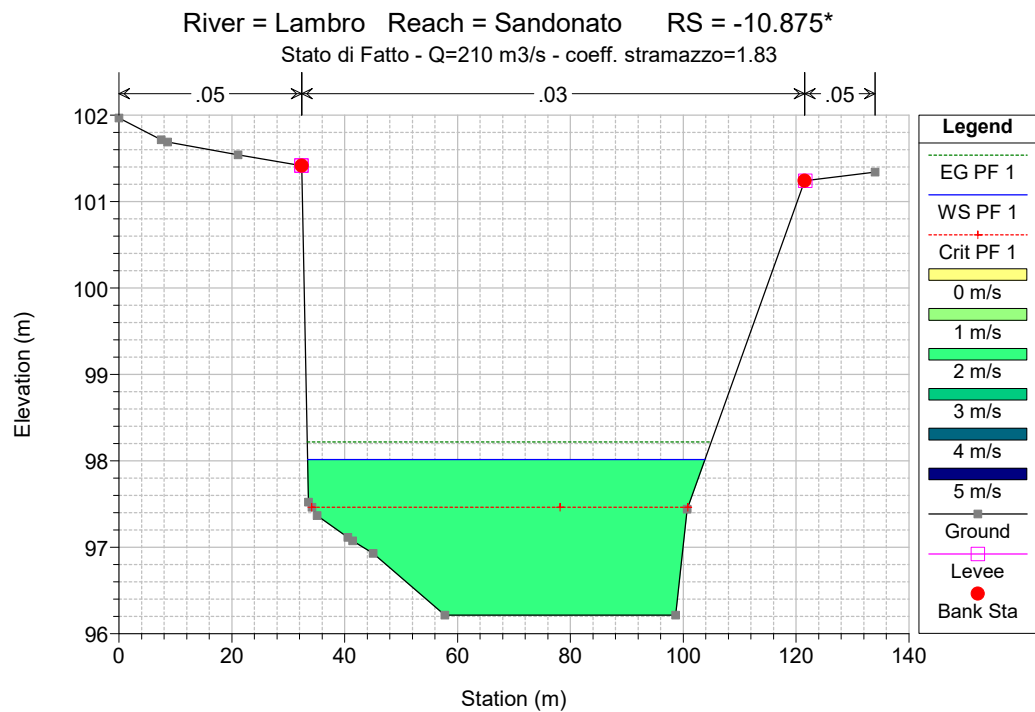
Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83





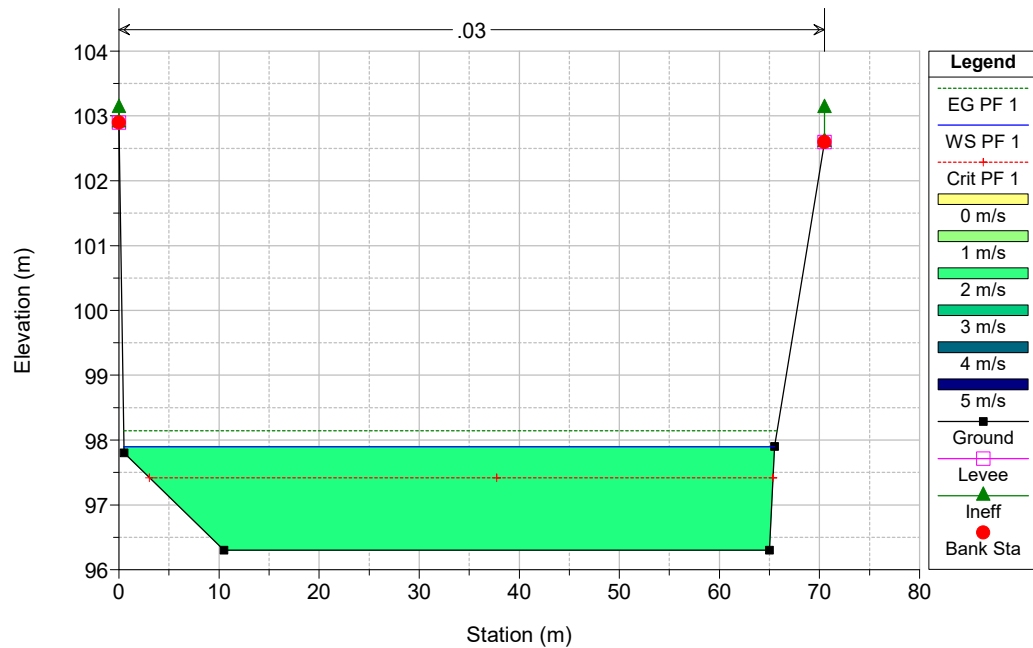






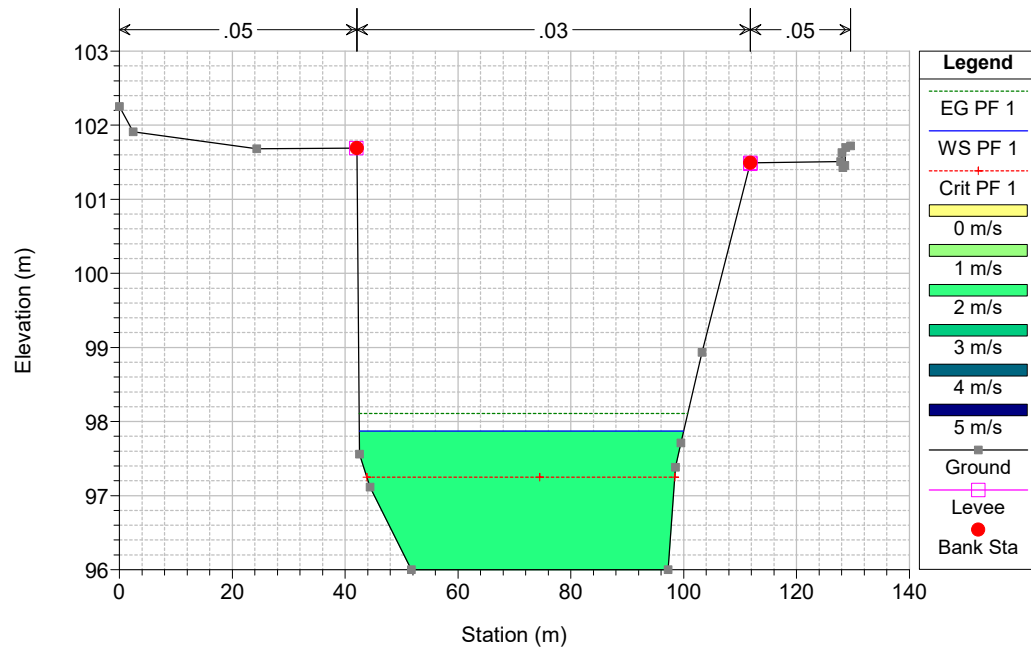
River = Lambro Reach = Sandonato RS = -11.2

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



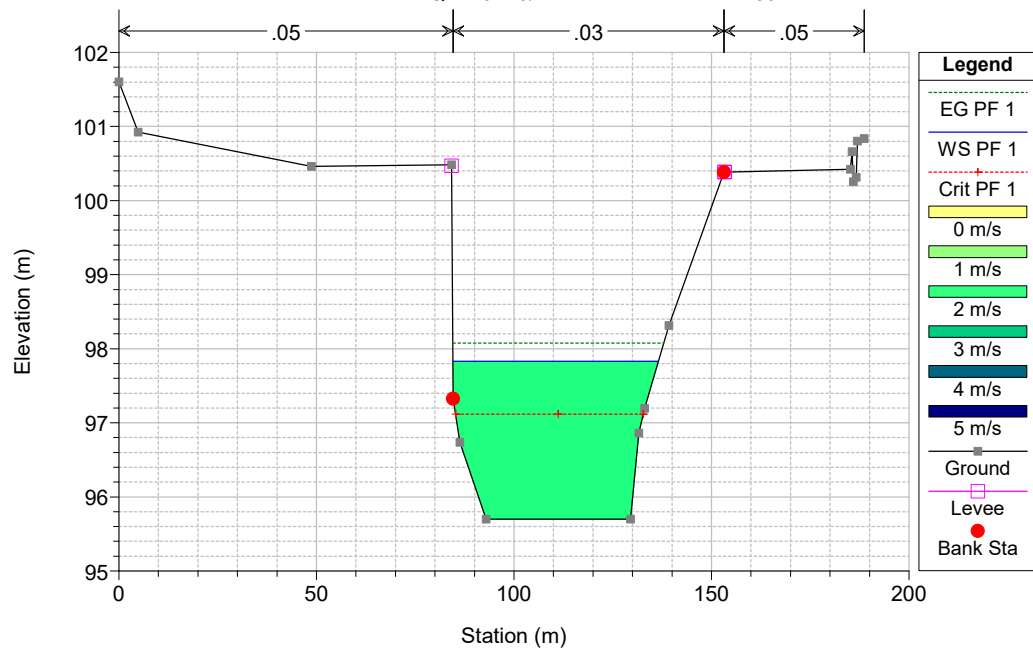
River = Lambro Reach = Sandonato RS = -11.340*

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



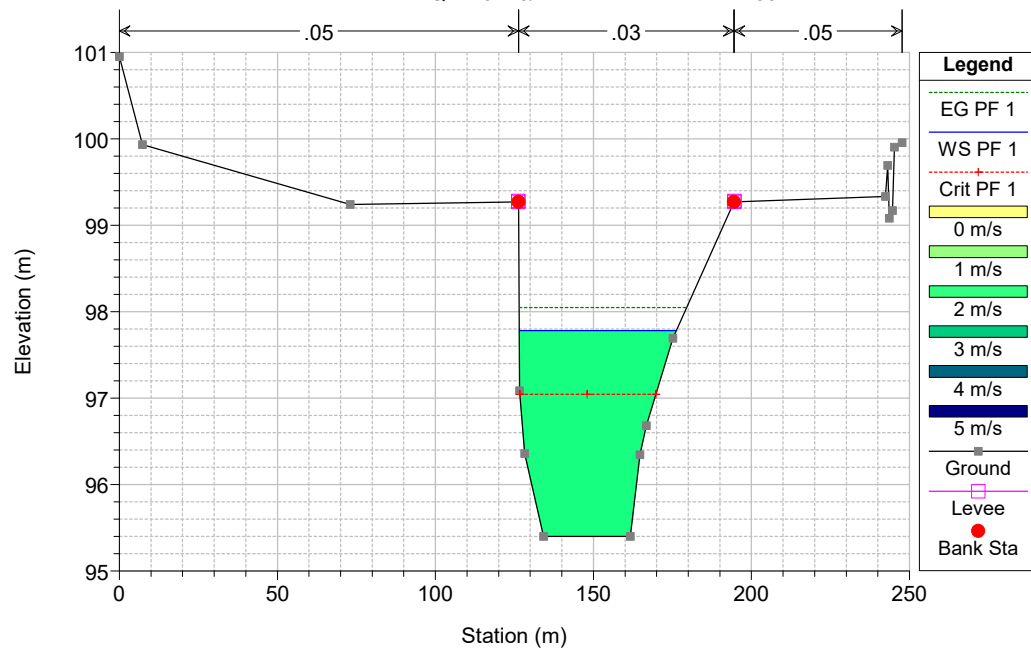
River = Lambro Reach = Sandonato RS = -11.480*

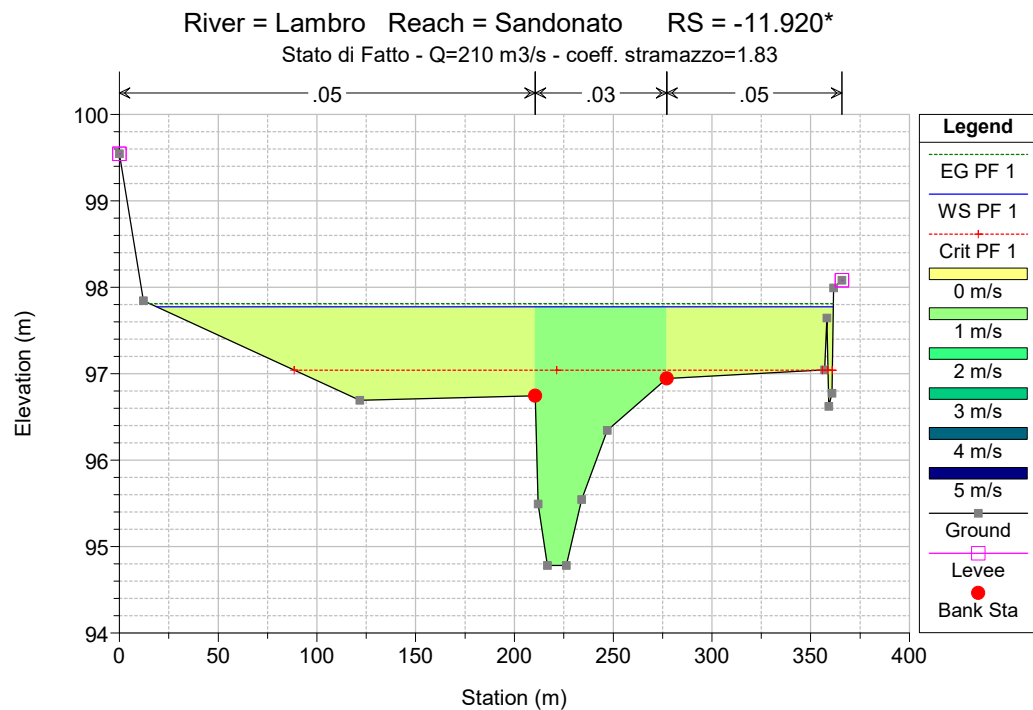
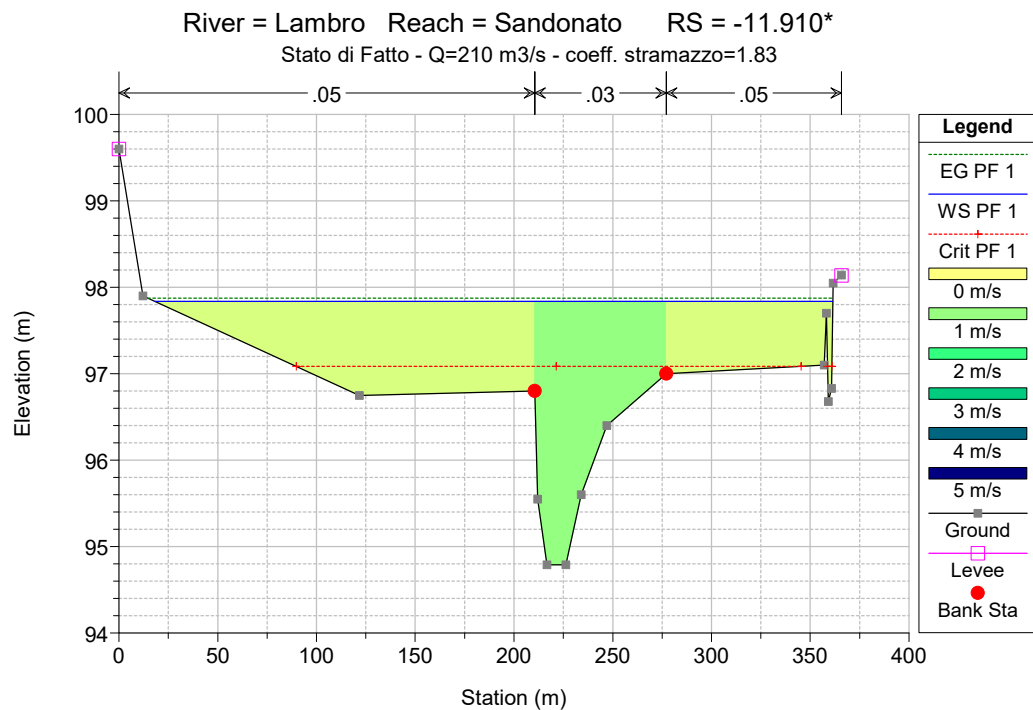
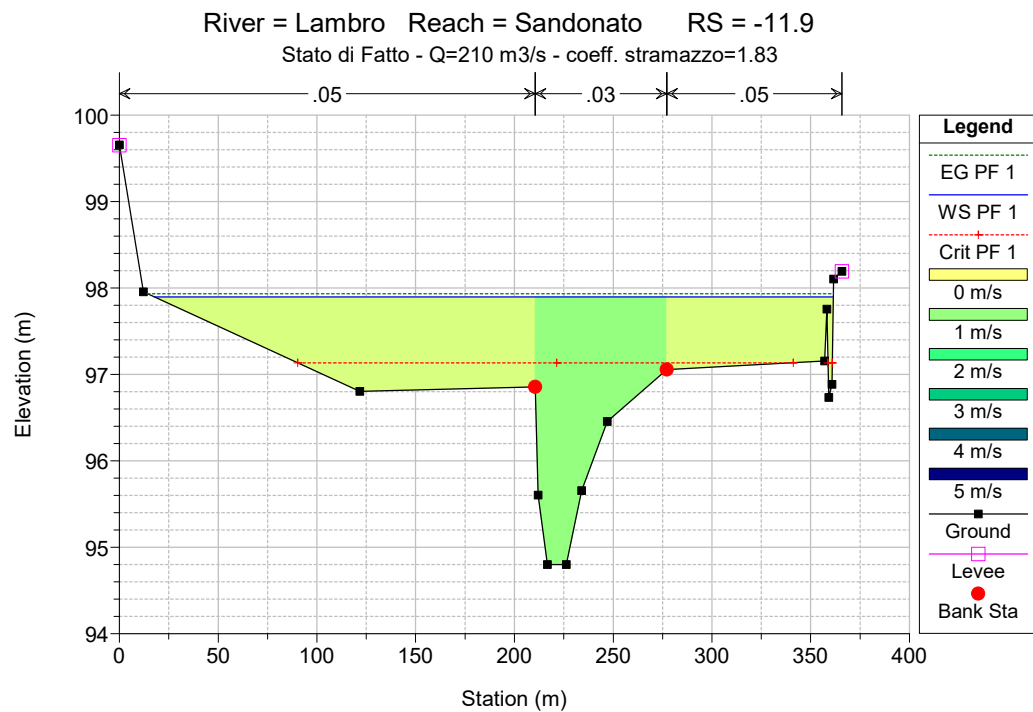
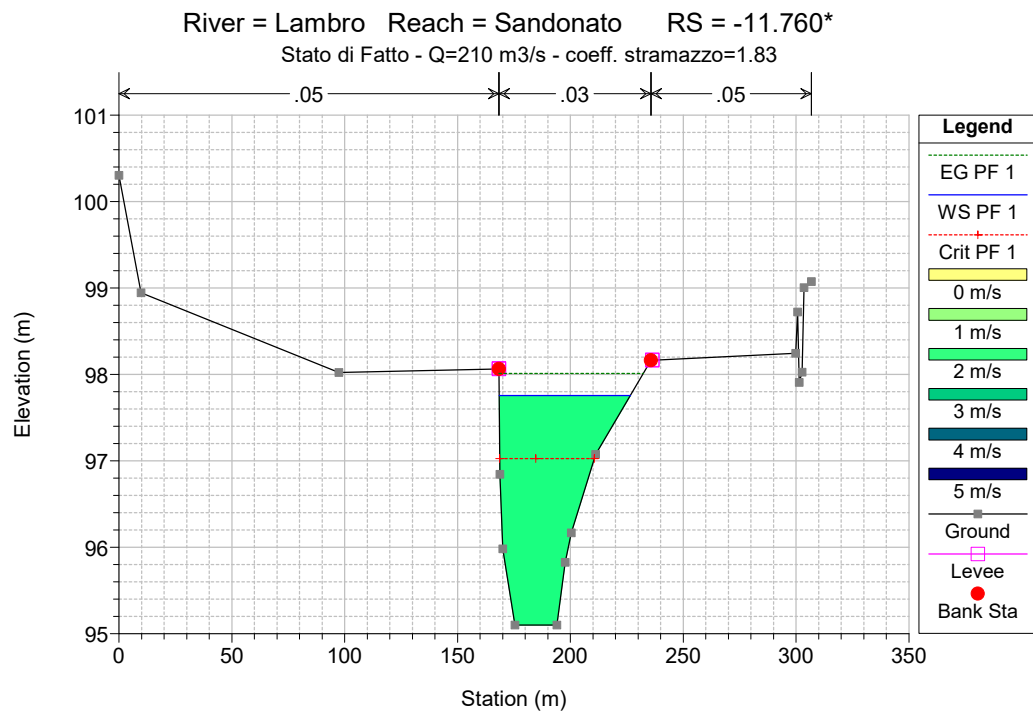
Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83

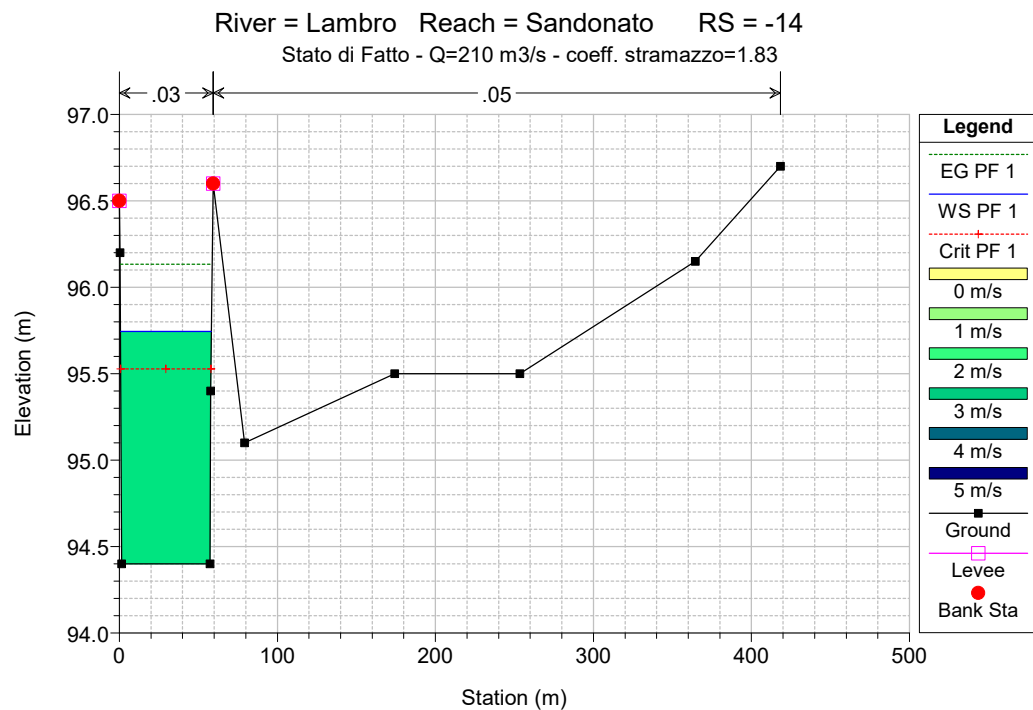
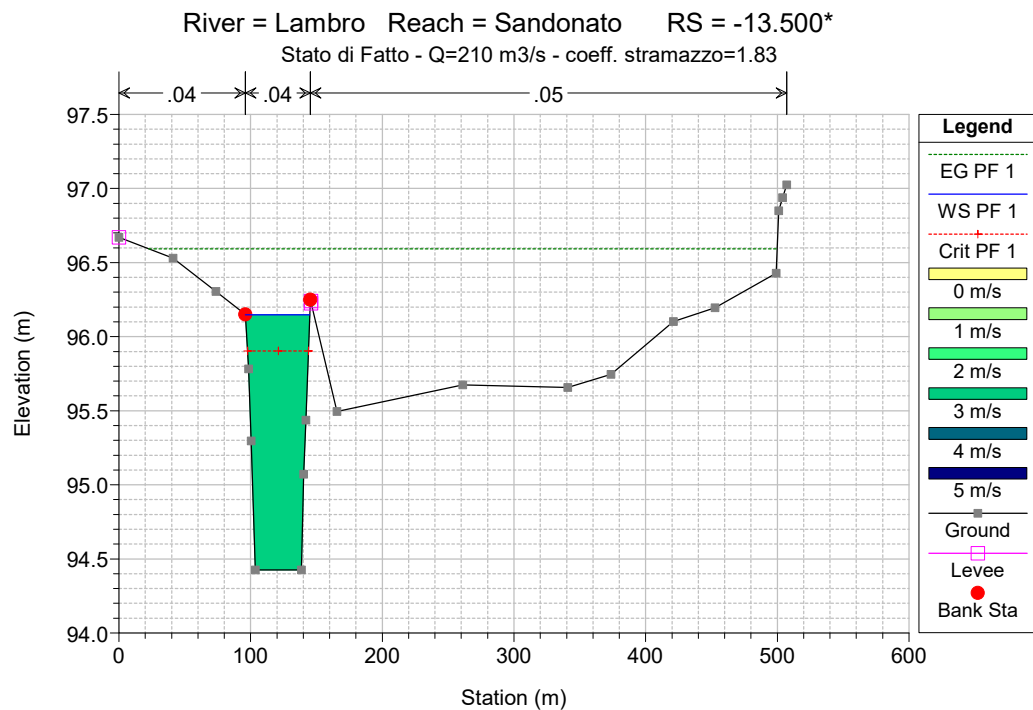
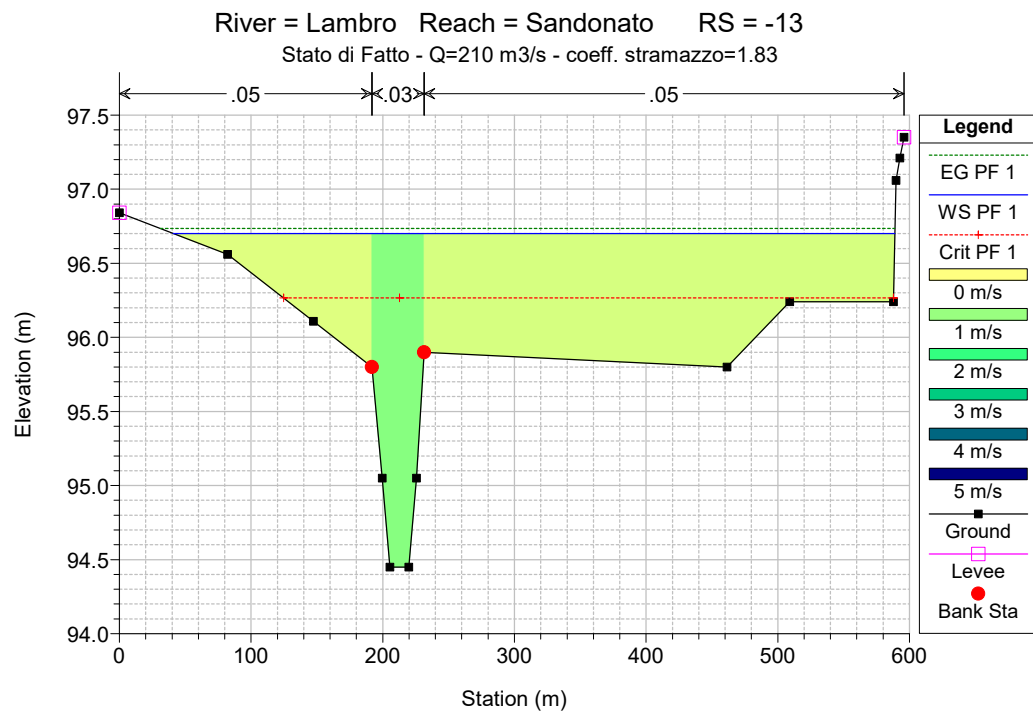
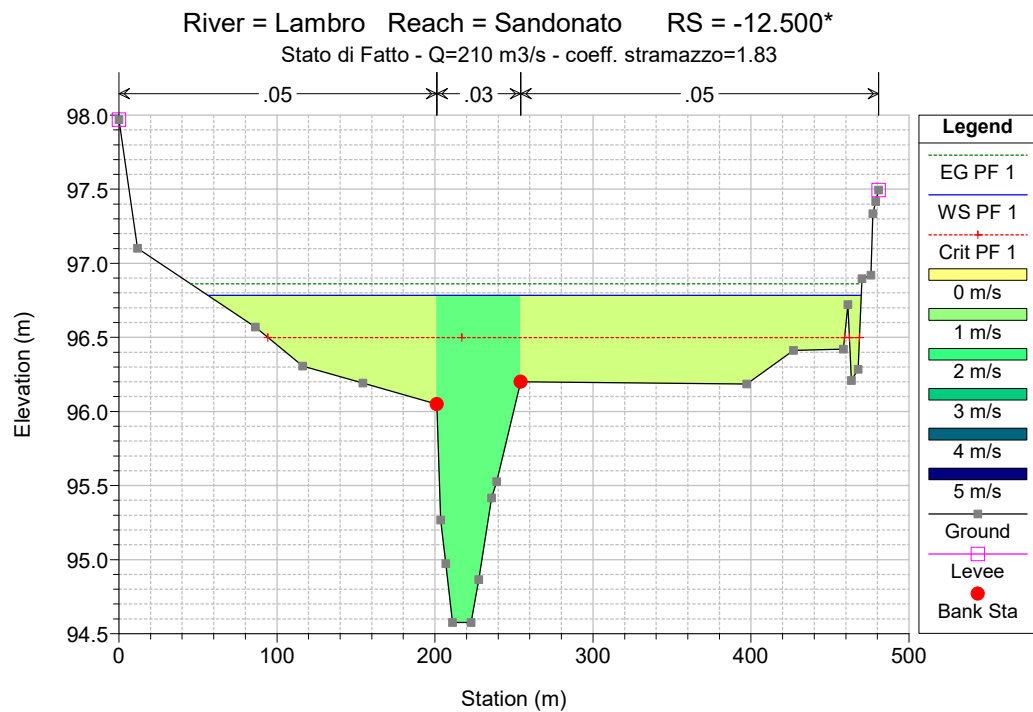


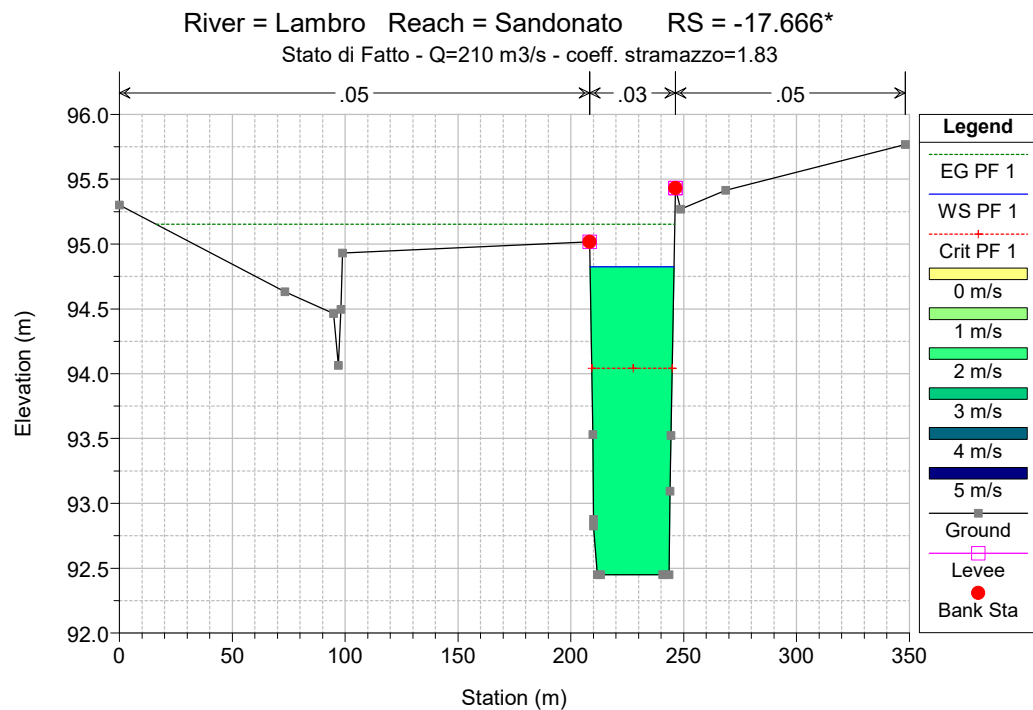
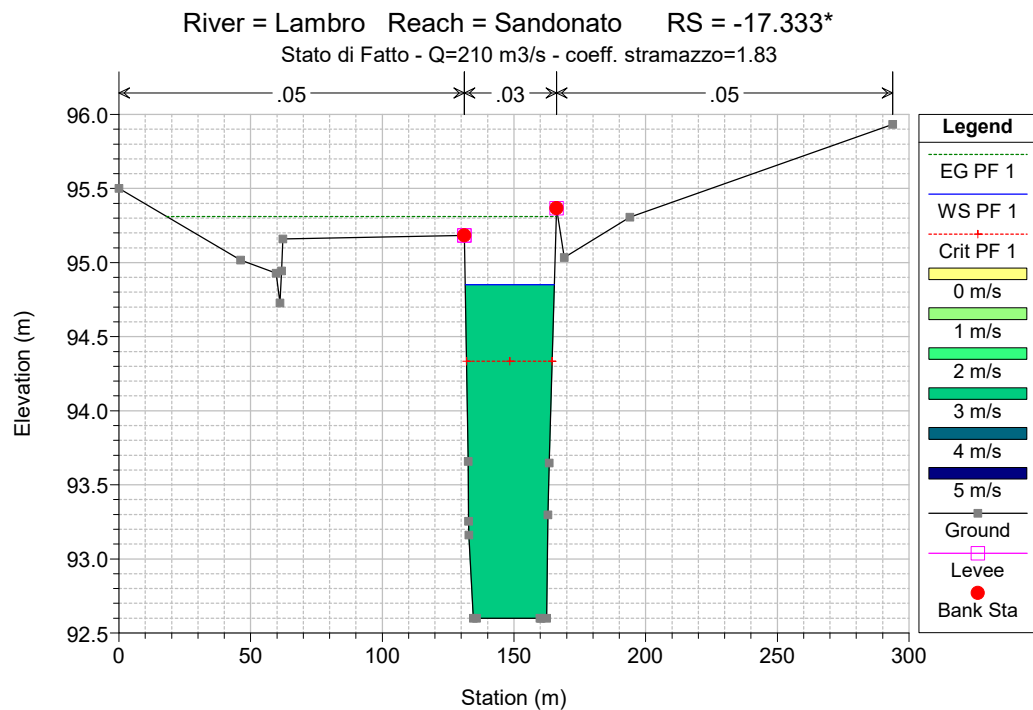
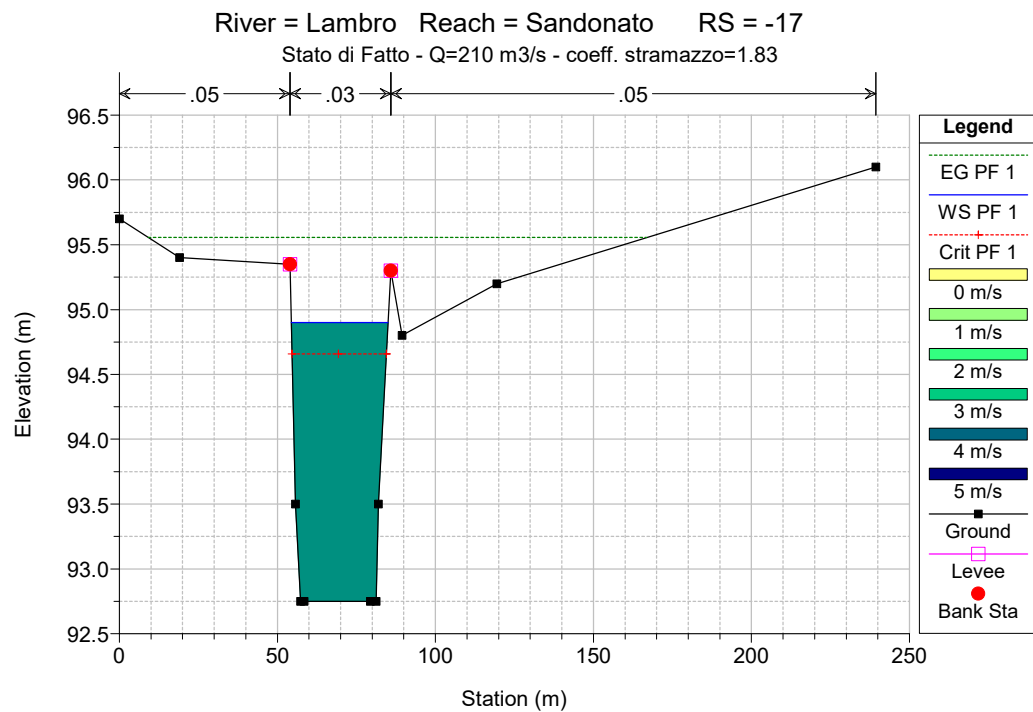
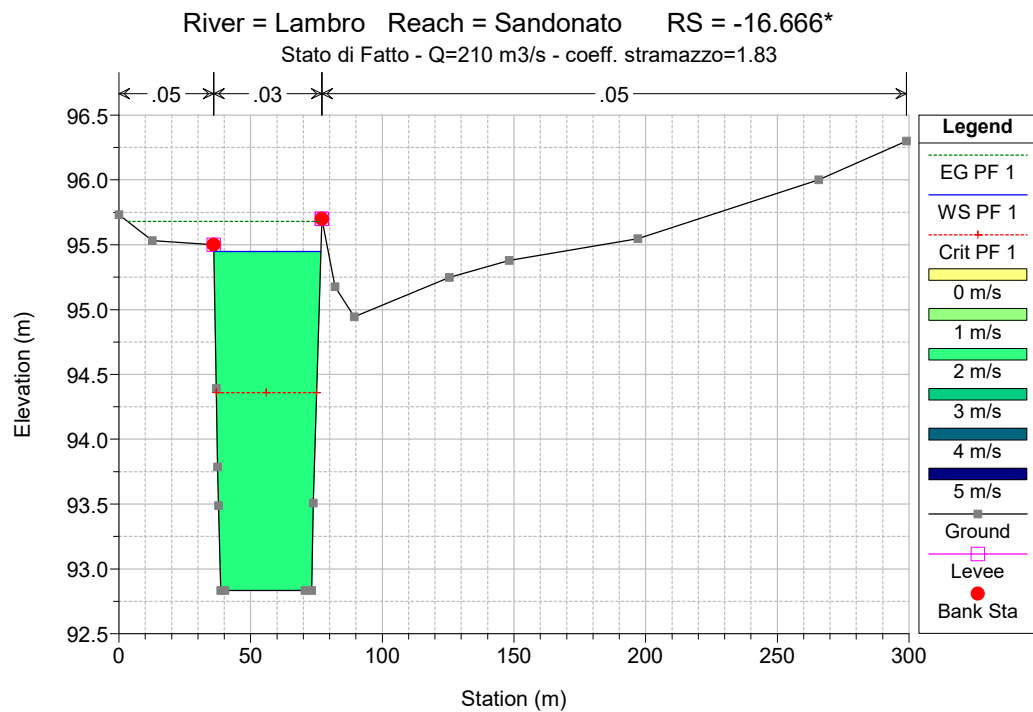
River = Lambro Reach = Sandonato RS = -11.620*

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



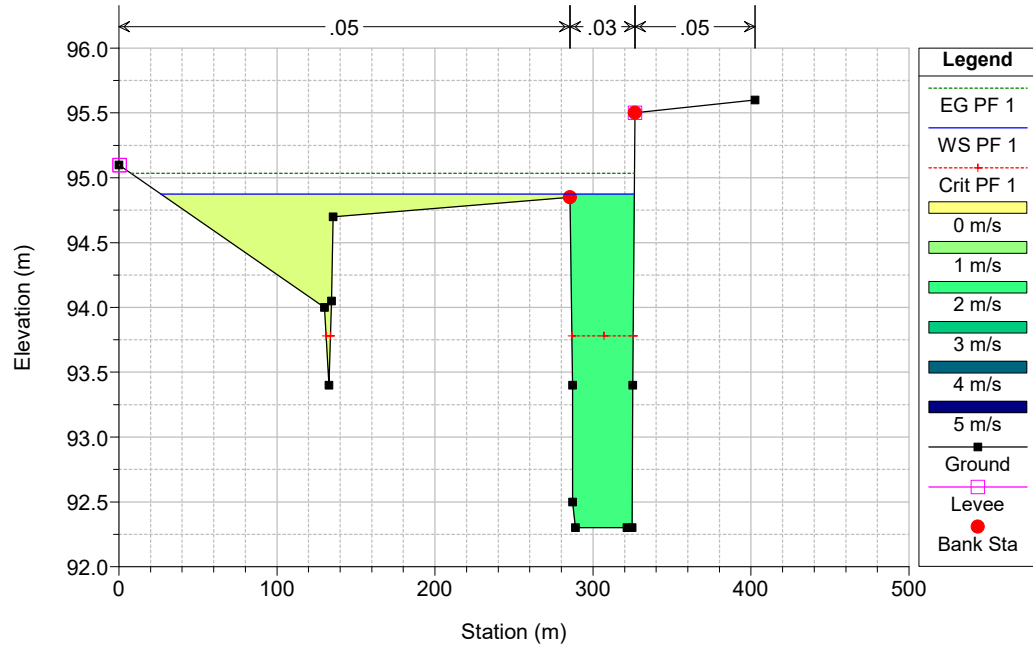






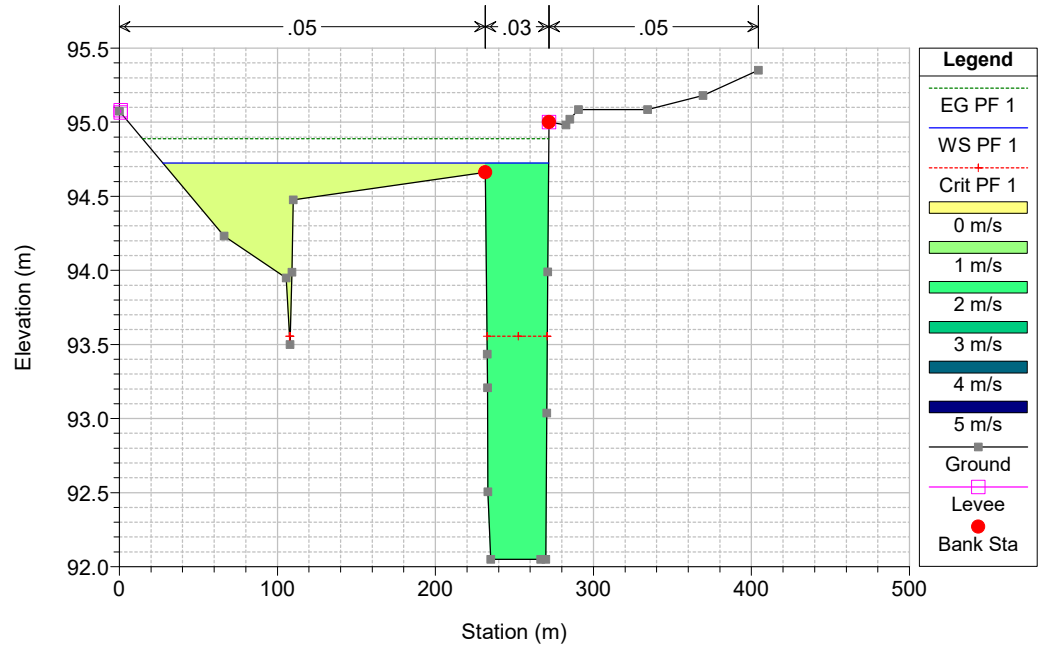
River = Lambro Reach = Sandonato RS = -18

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



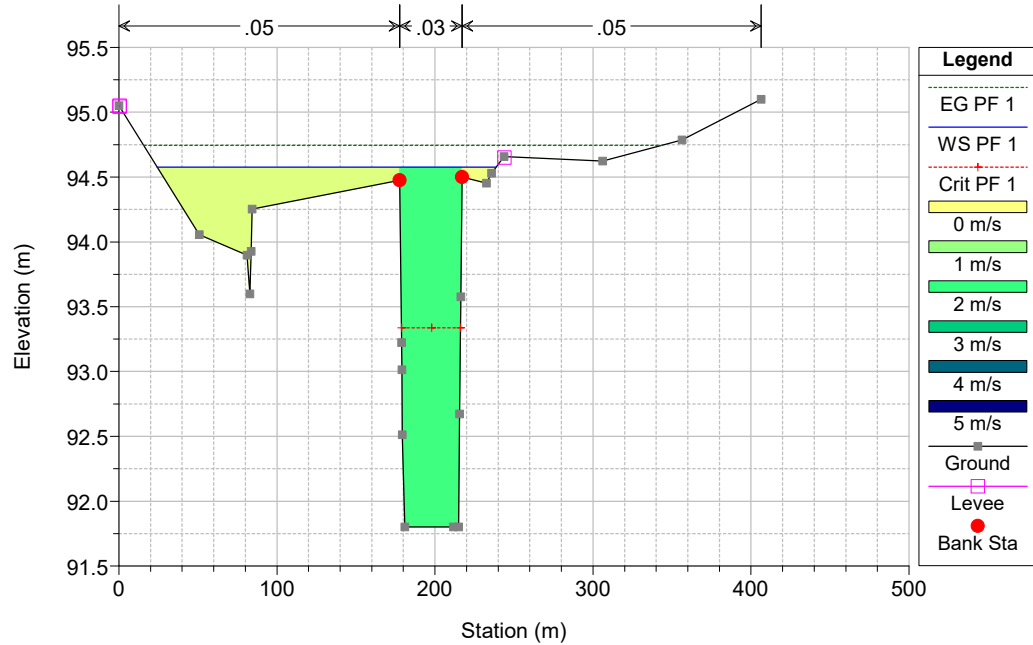
River = Lambro Reach = Sandonato RS = -18.250*

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



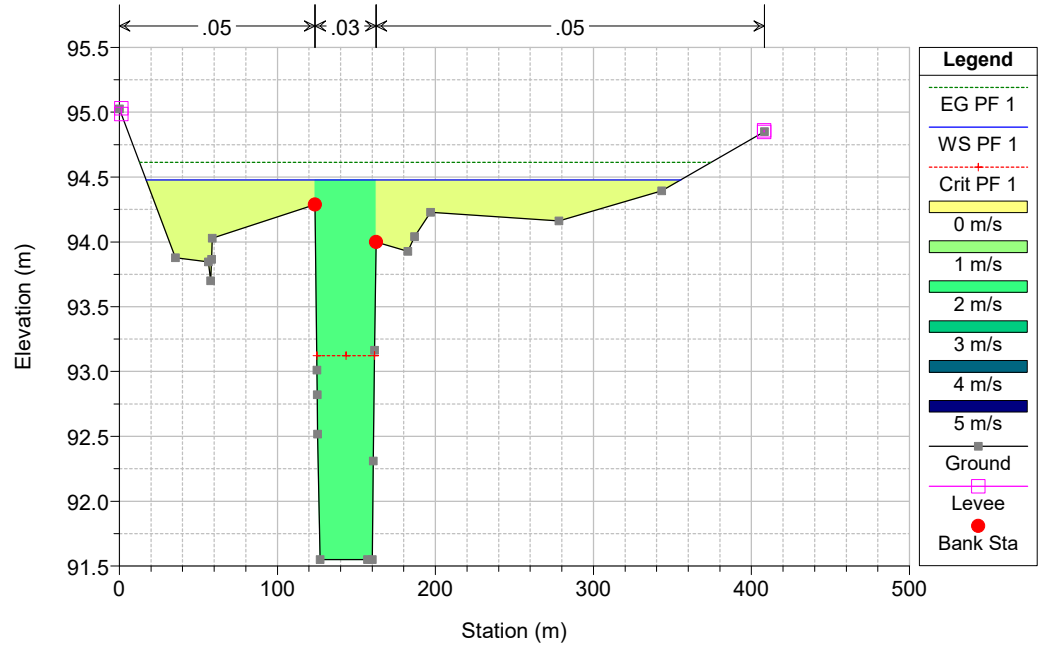
River = Lambro Reach = Sandonato RS = -18.500*

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



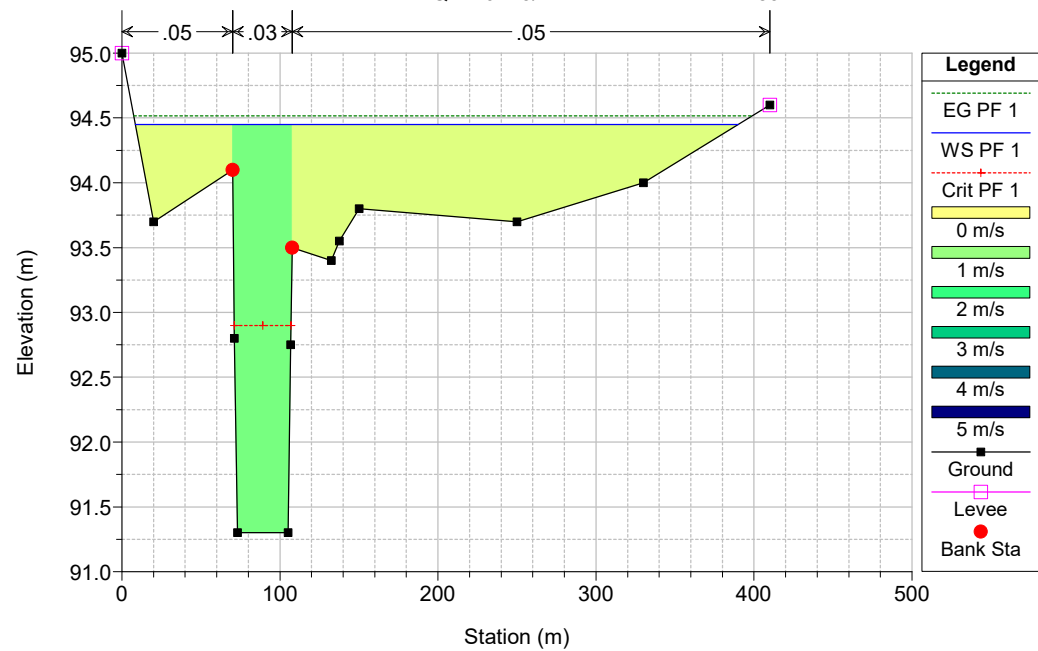
River = Lambro Reach = Sandonato RS = -18.750*

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83



River = Lambro Reach = Sandonato RS = -19

Stato di Fatto - Q=210 m3/s - coeff. stramazzo=1.83

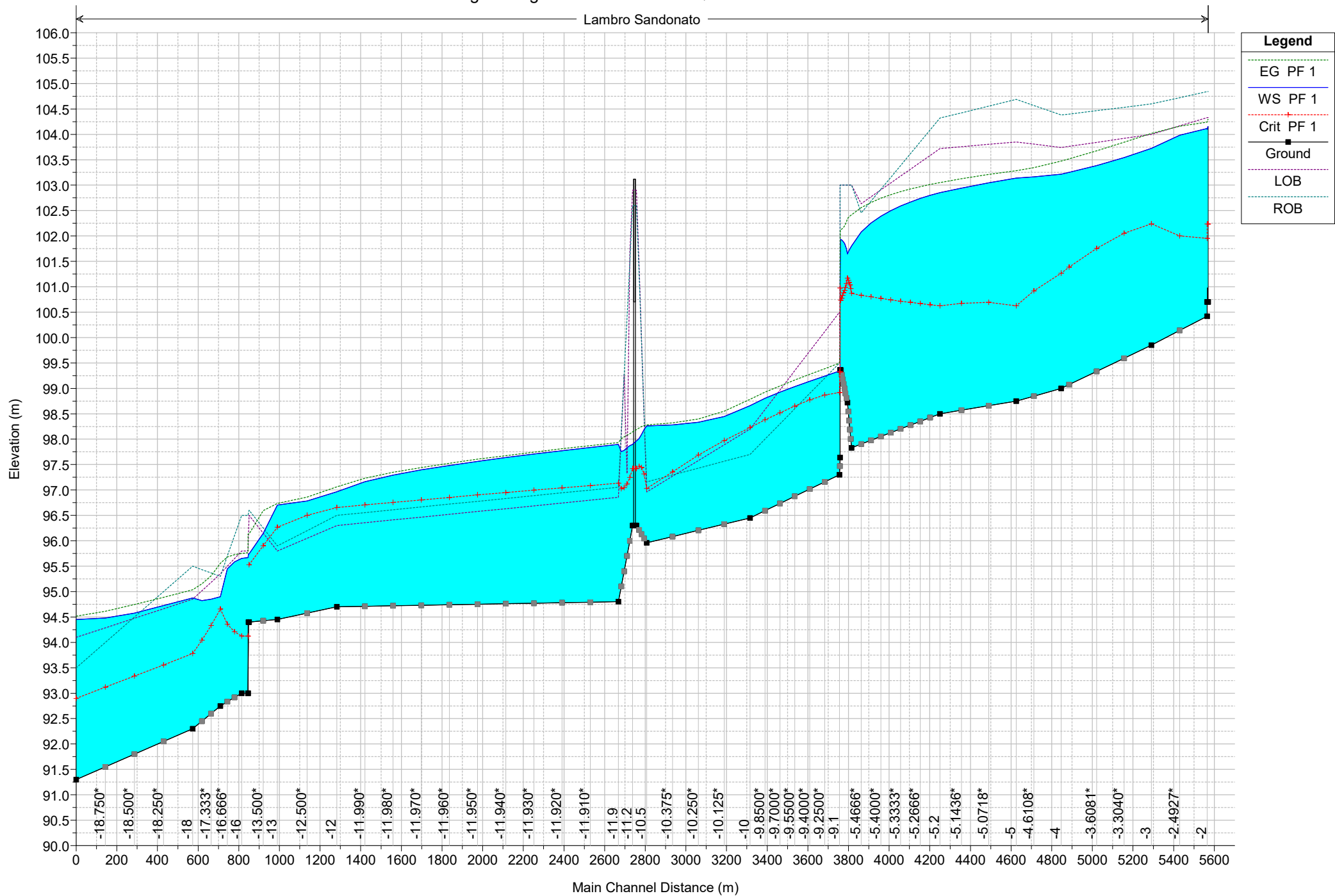


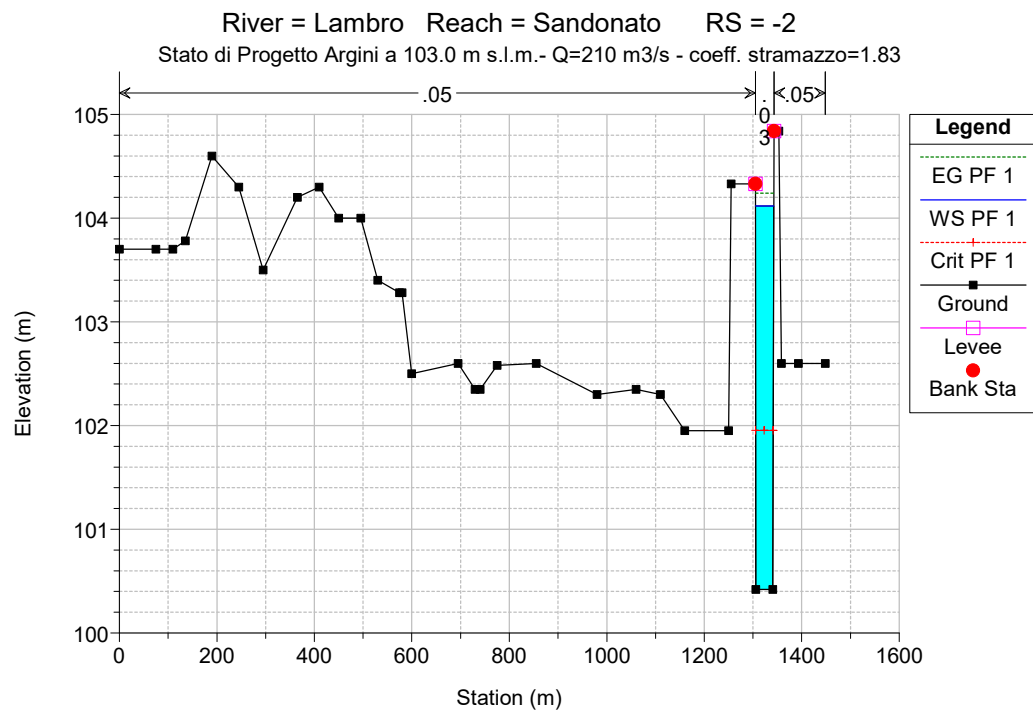
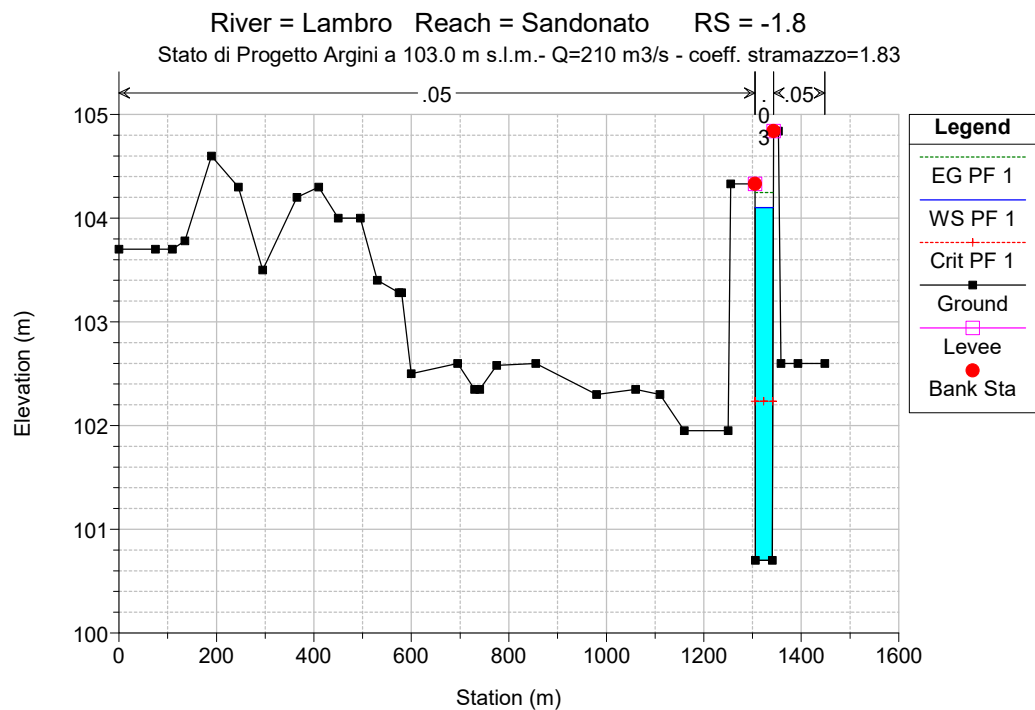
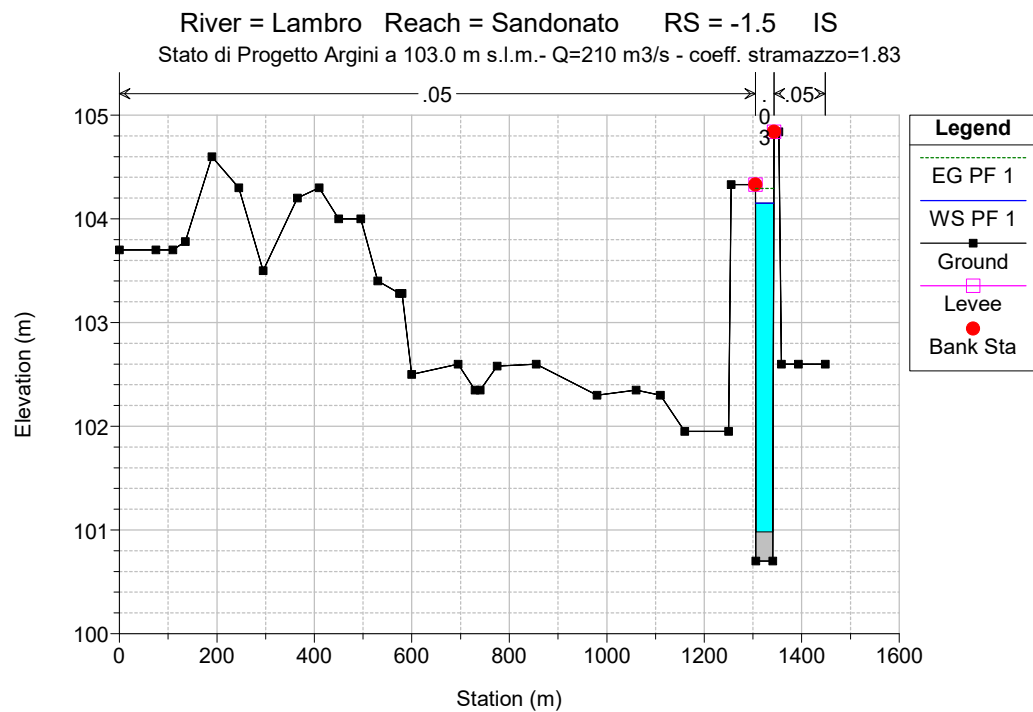
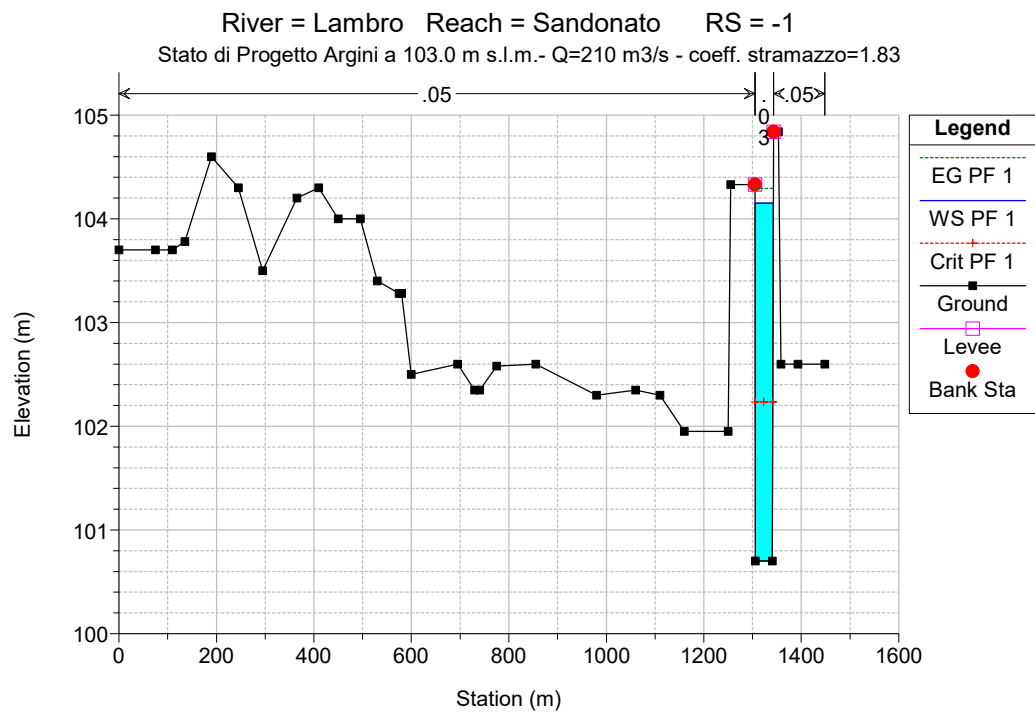
STATO DI PROGETTO CON ARGINI A QUOTA 103.0 m s.l.m.

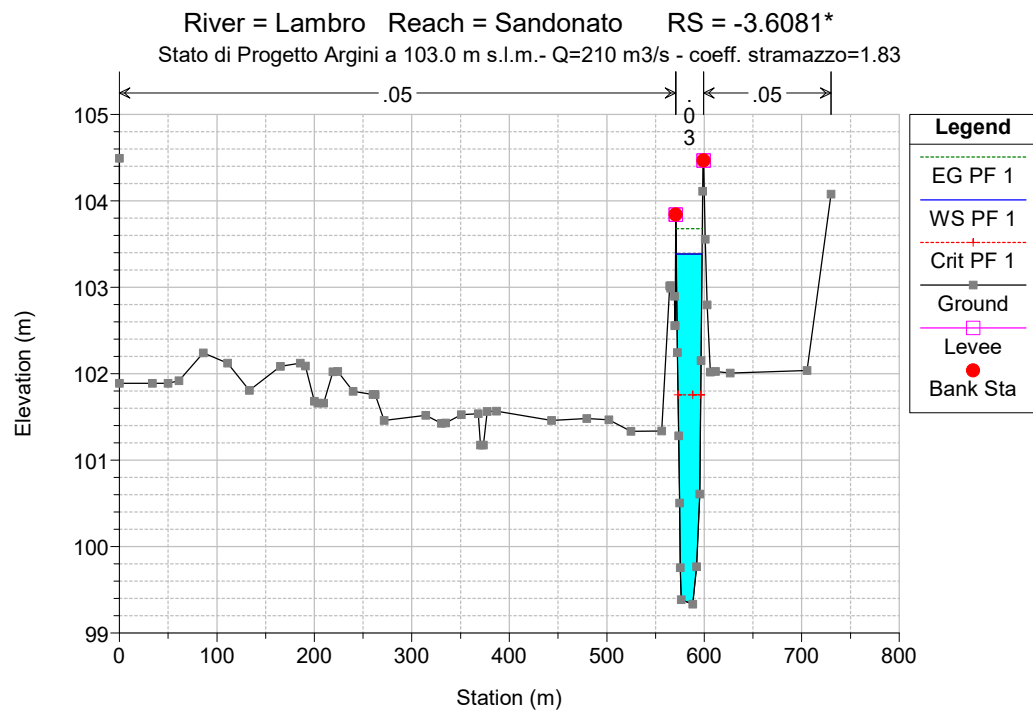
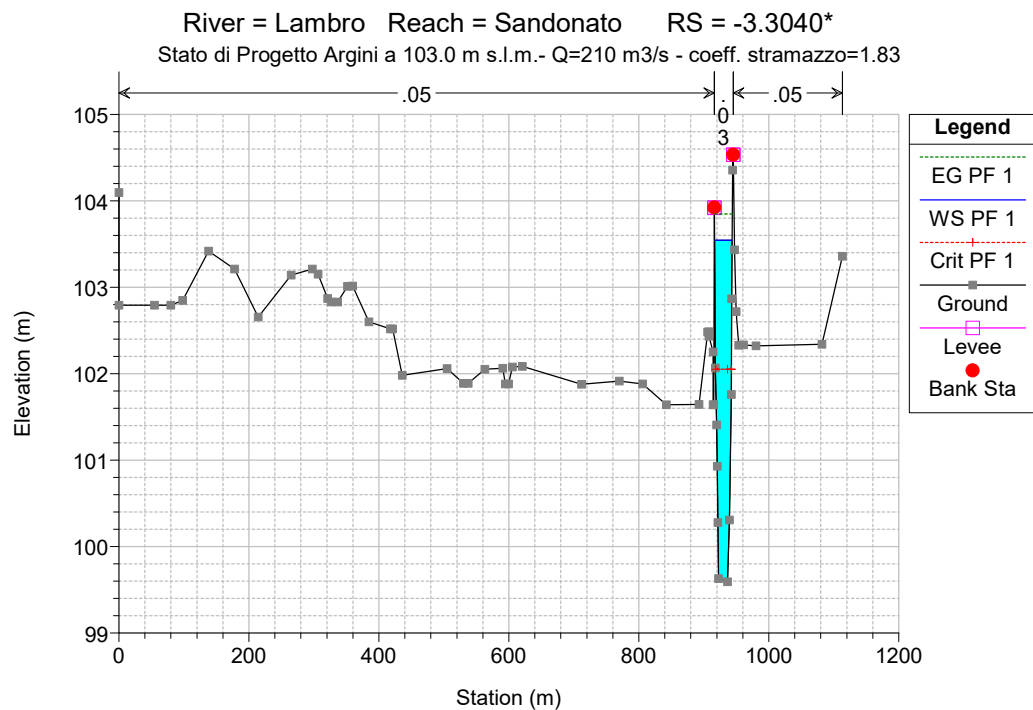
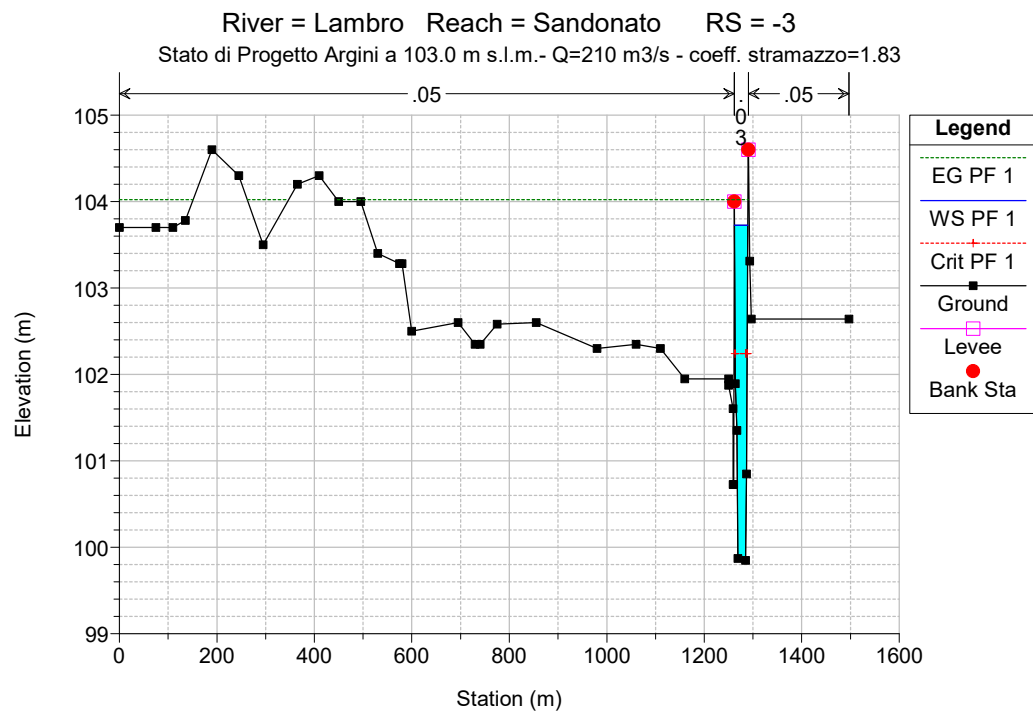
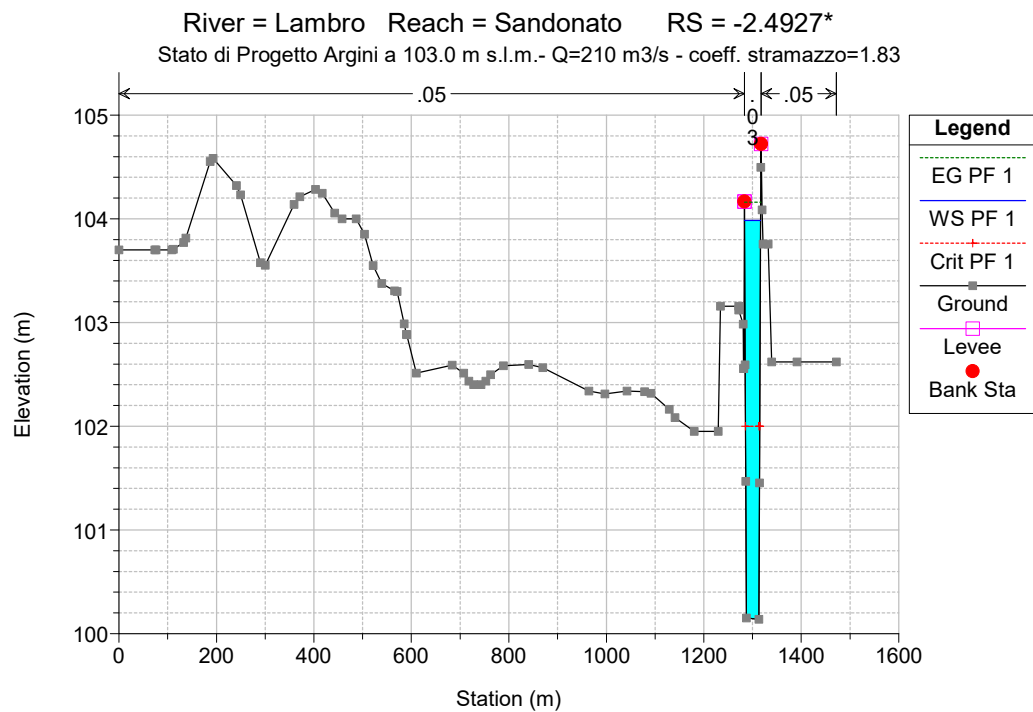
$Q = 200 \text{ m}^3/\text{s}$

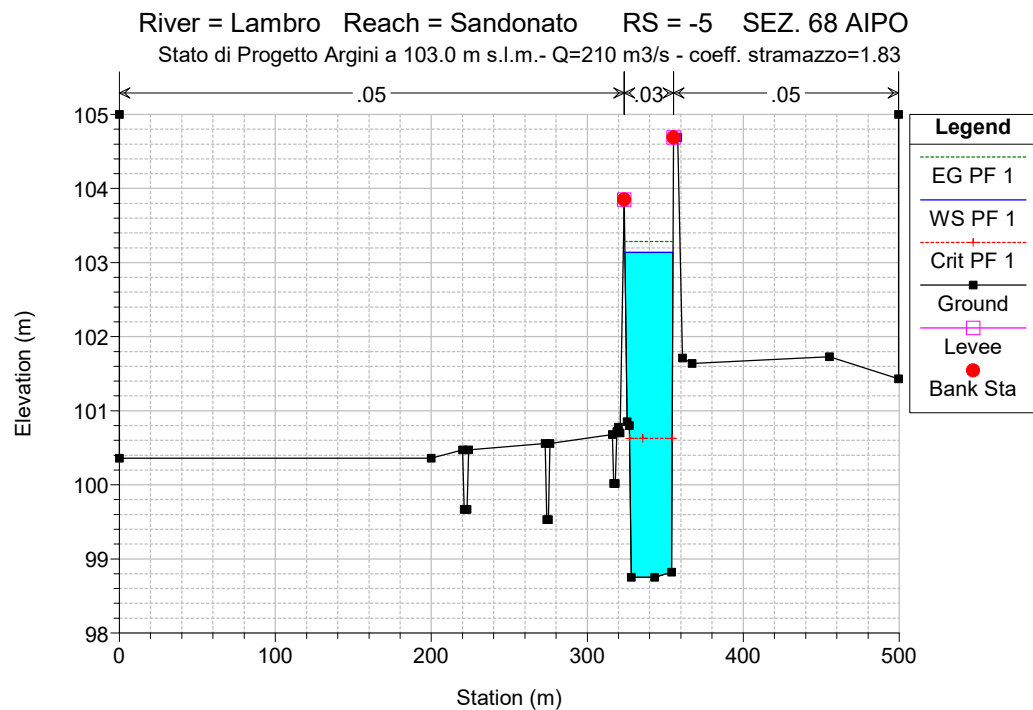
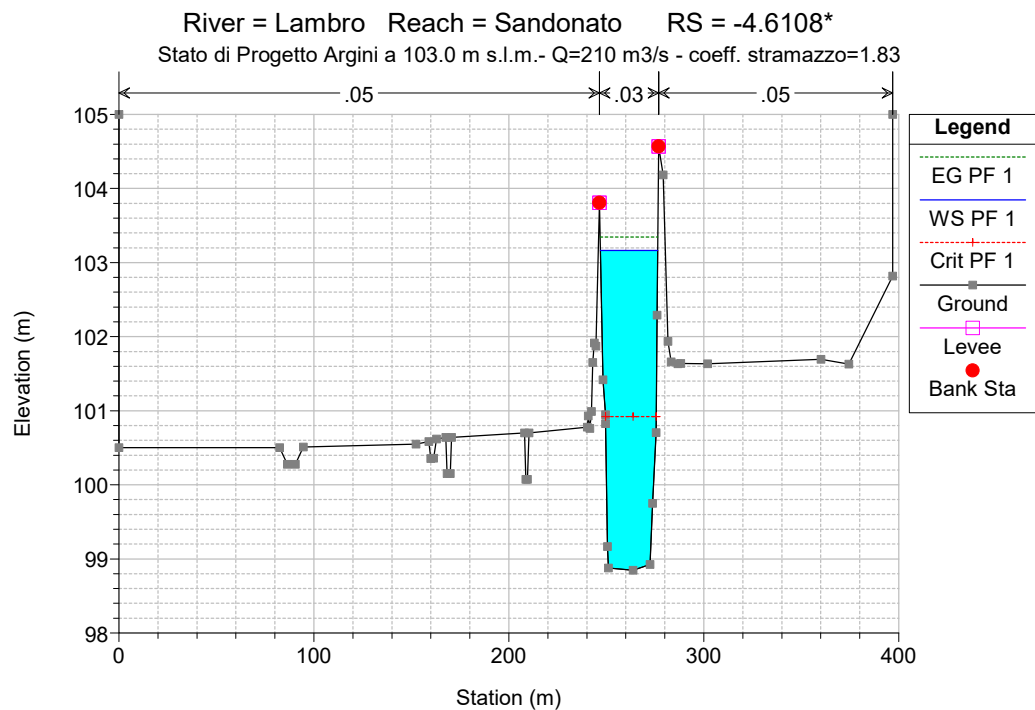
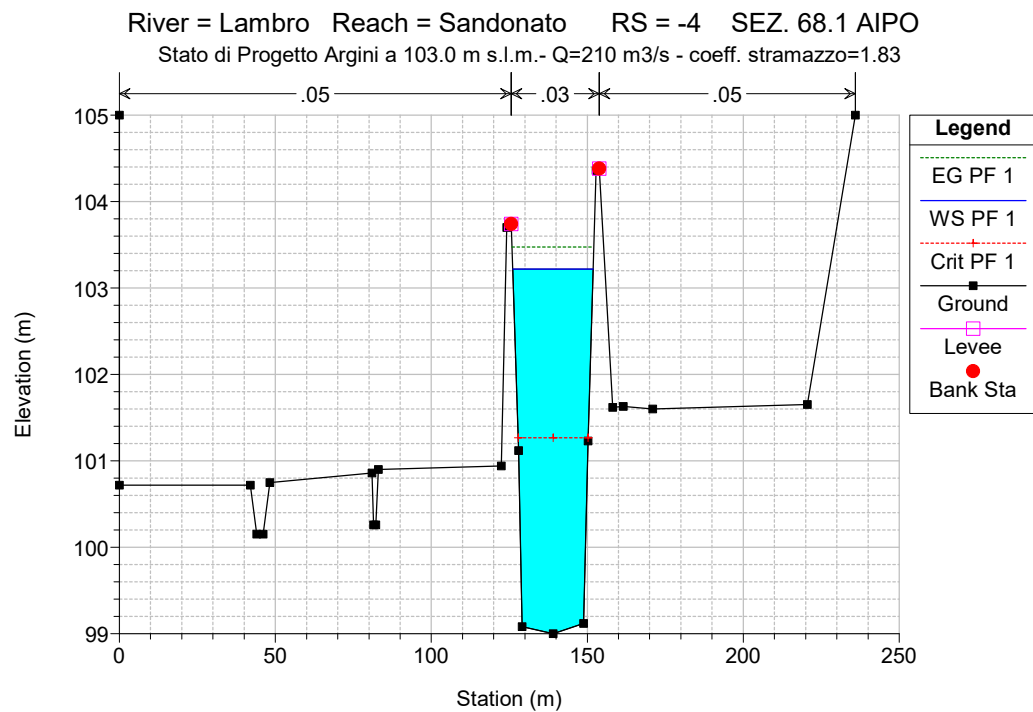
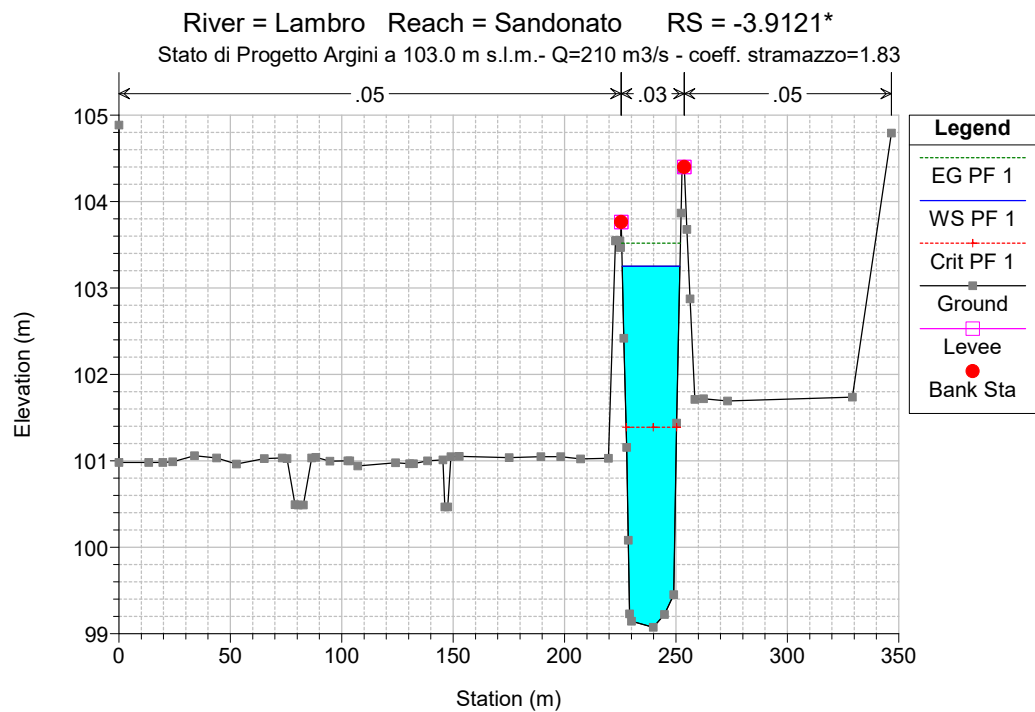
**Coefficiente di stramazzo nella traversa di Bolgiano pari a
1.83**

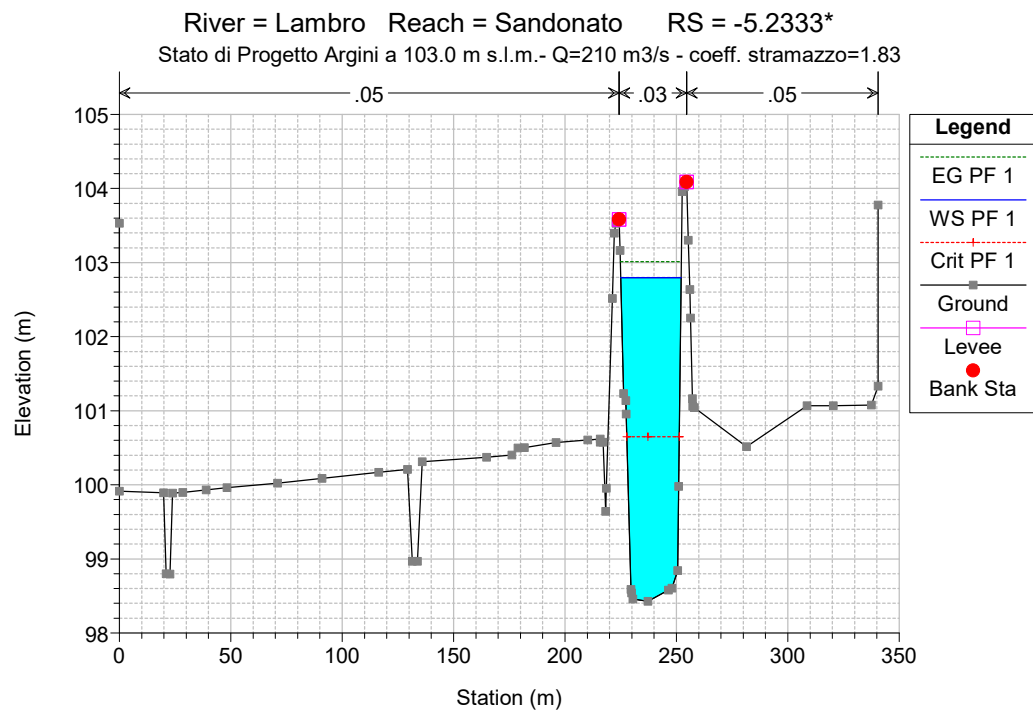
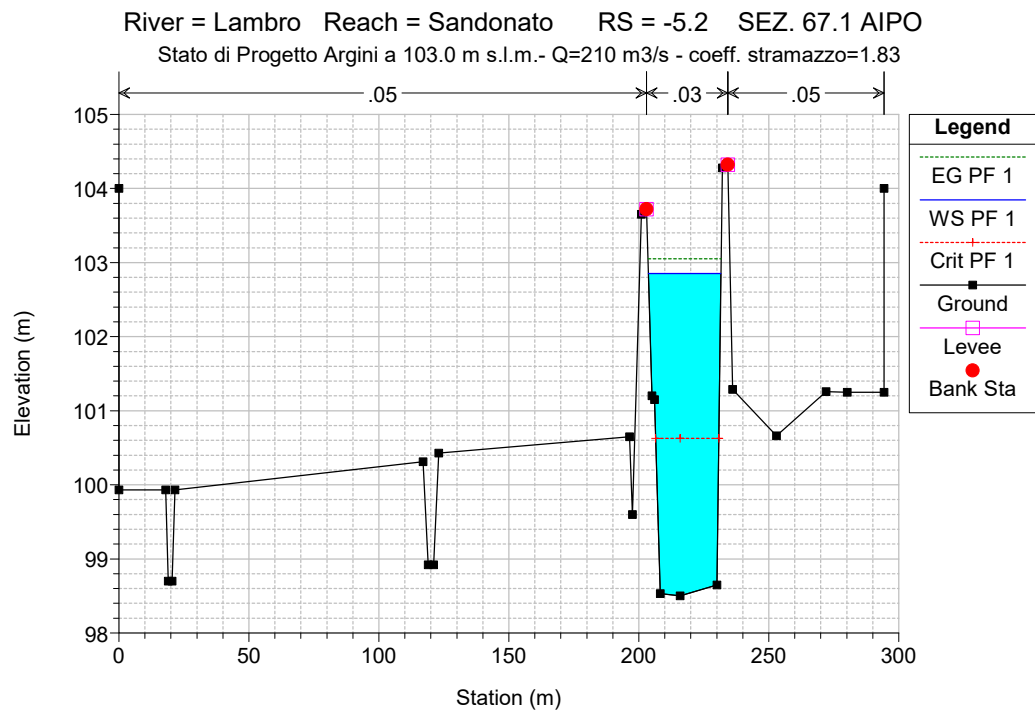
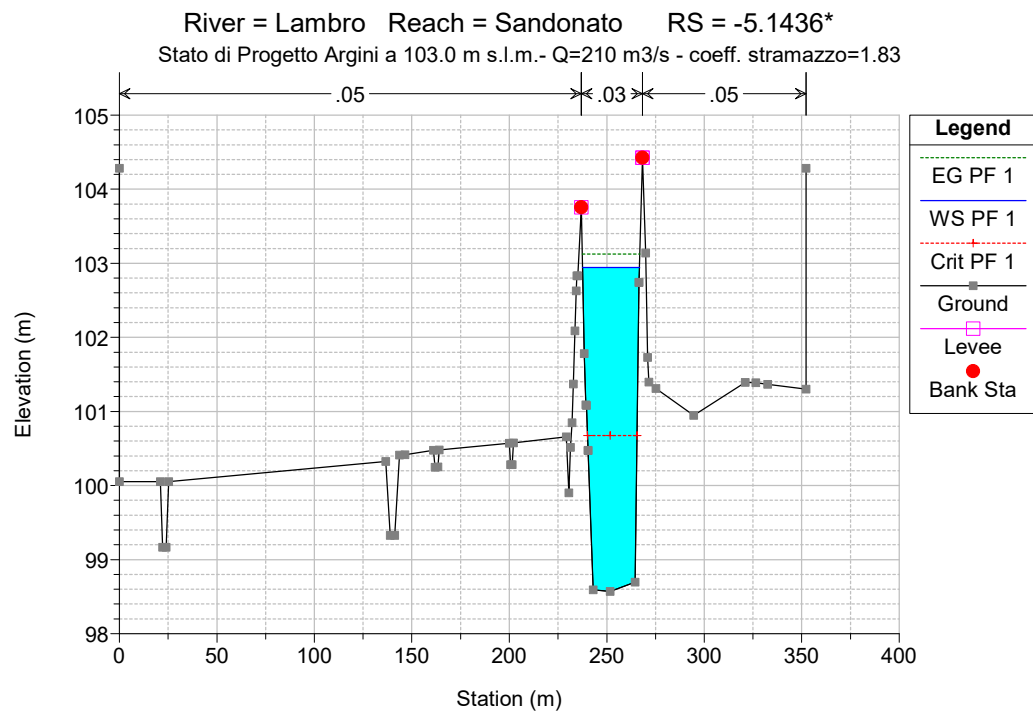
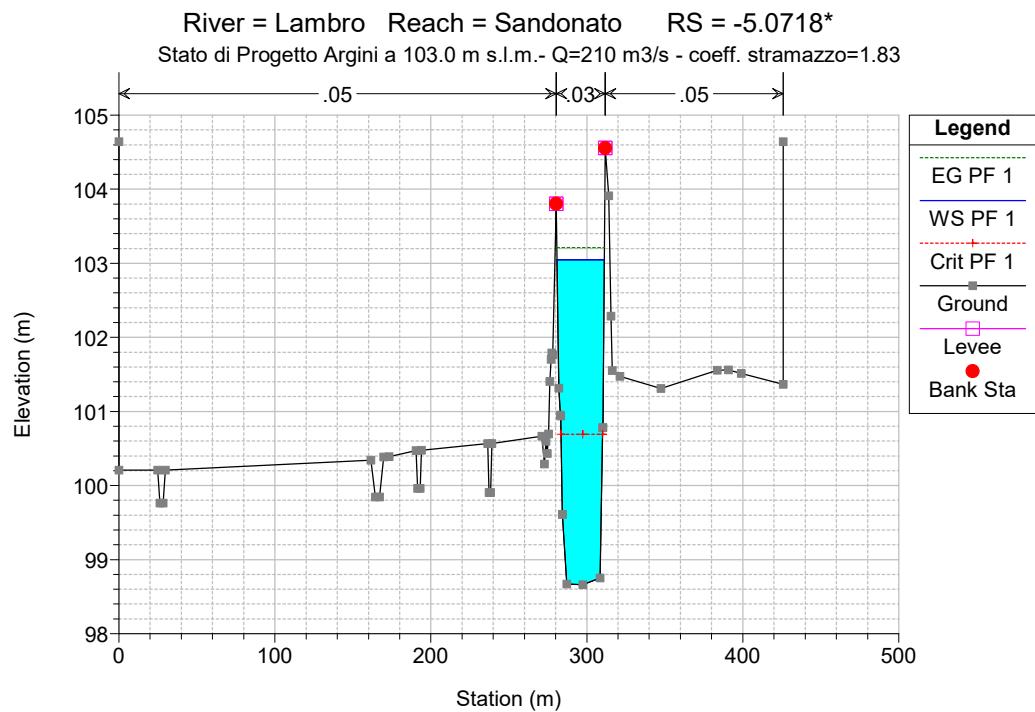
Stato di Progetto Argini a 103.0 m s.l.m.- Q=210 m3/s - coeff. stramazzo=1.83

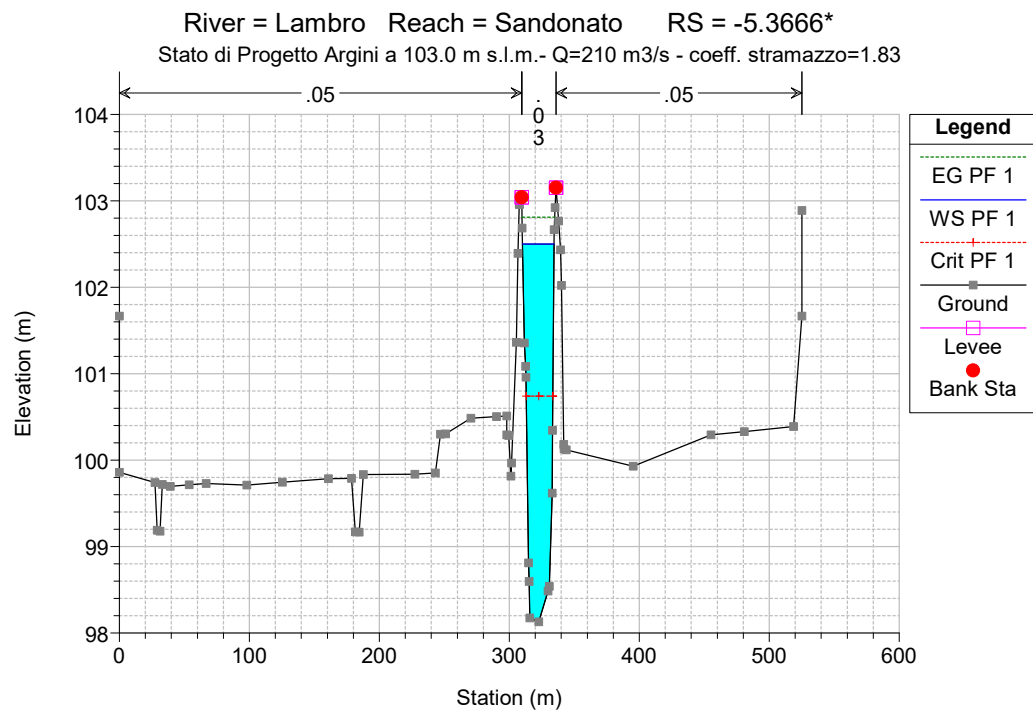
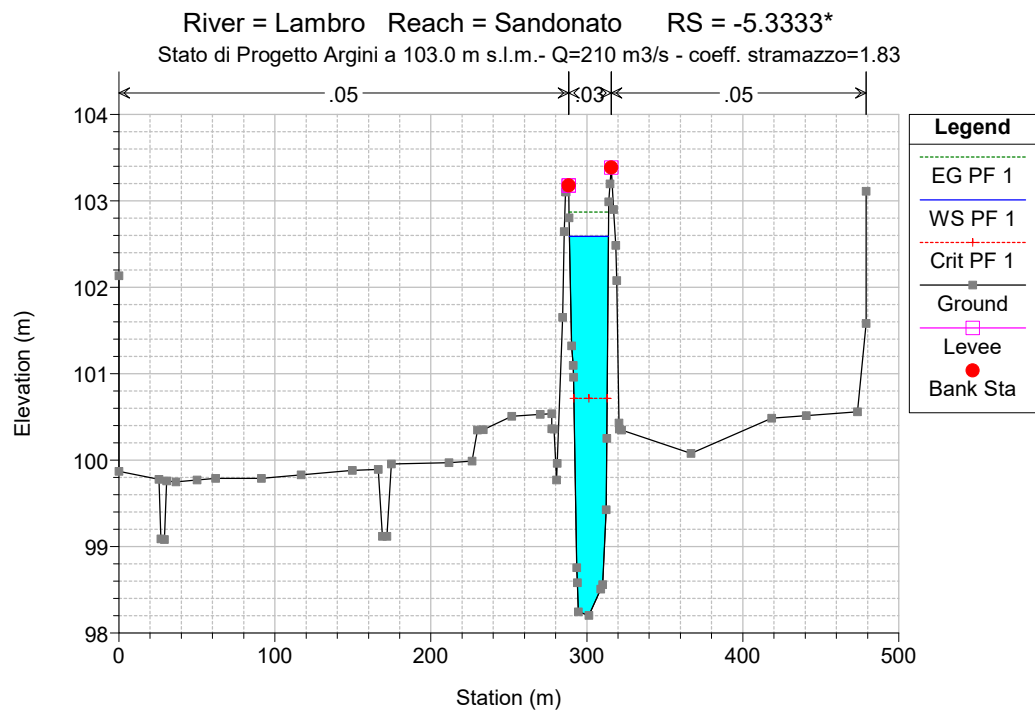
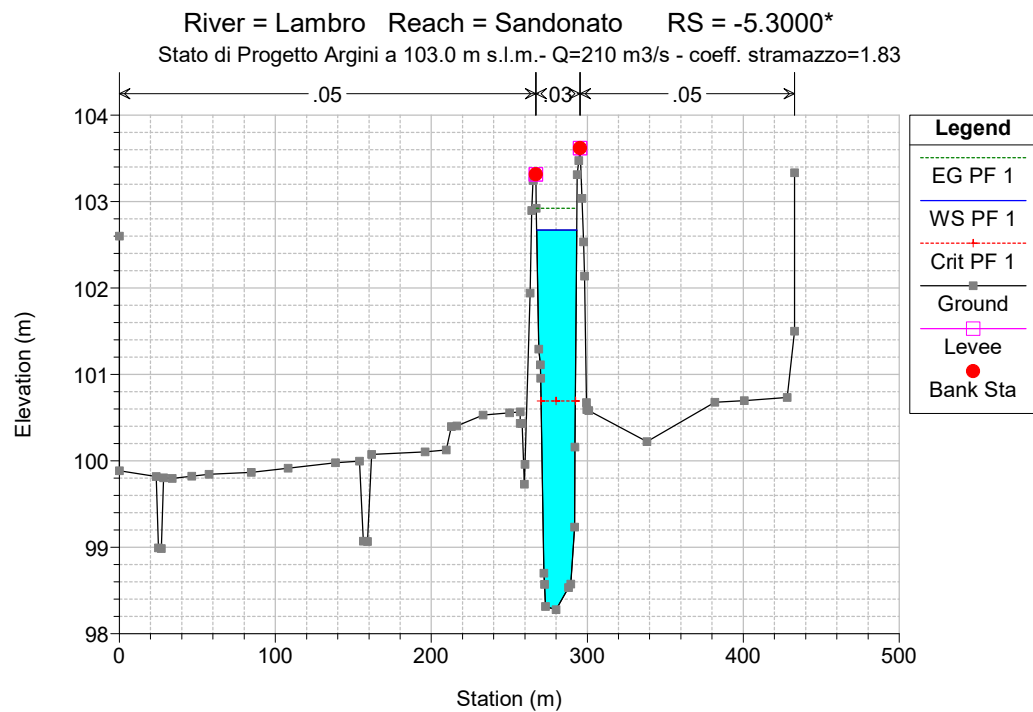
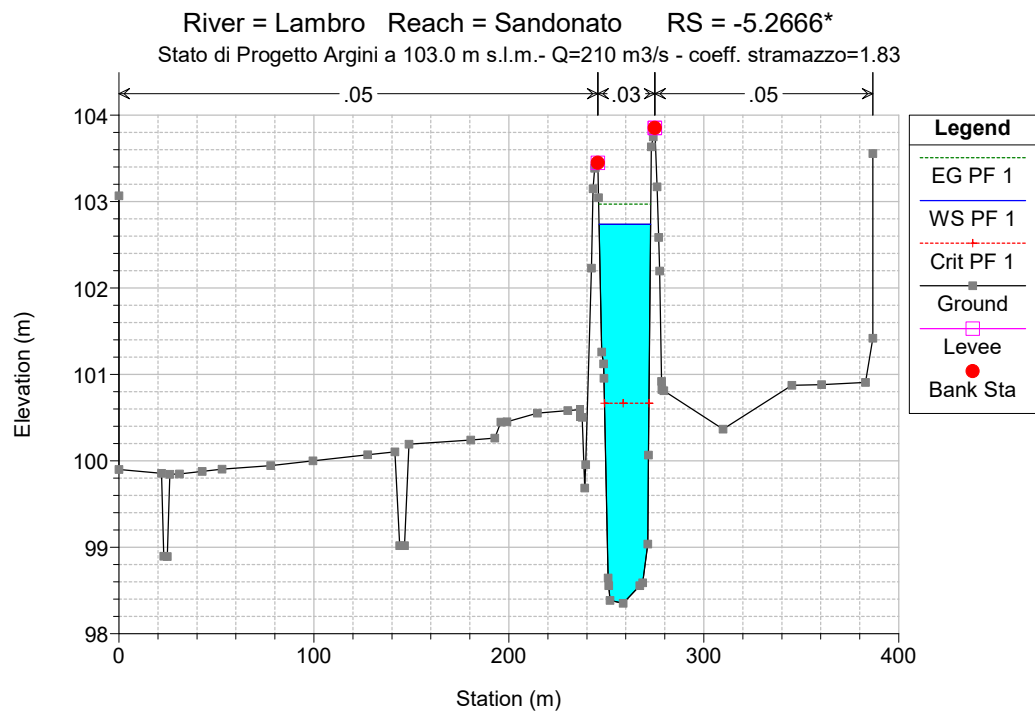


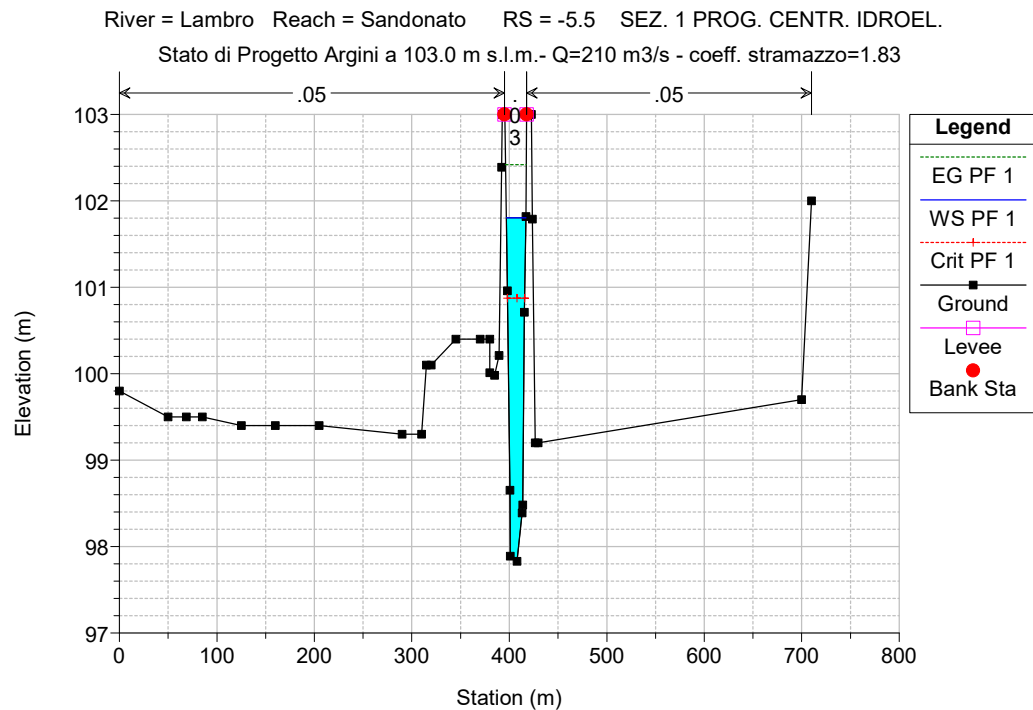
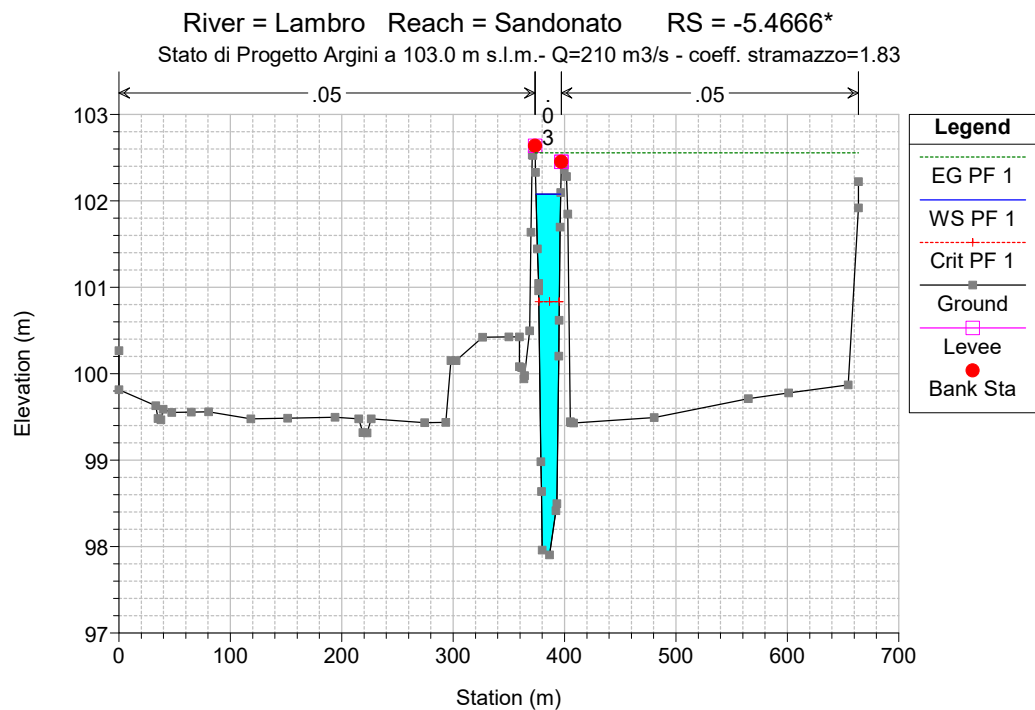
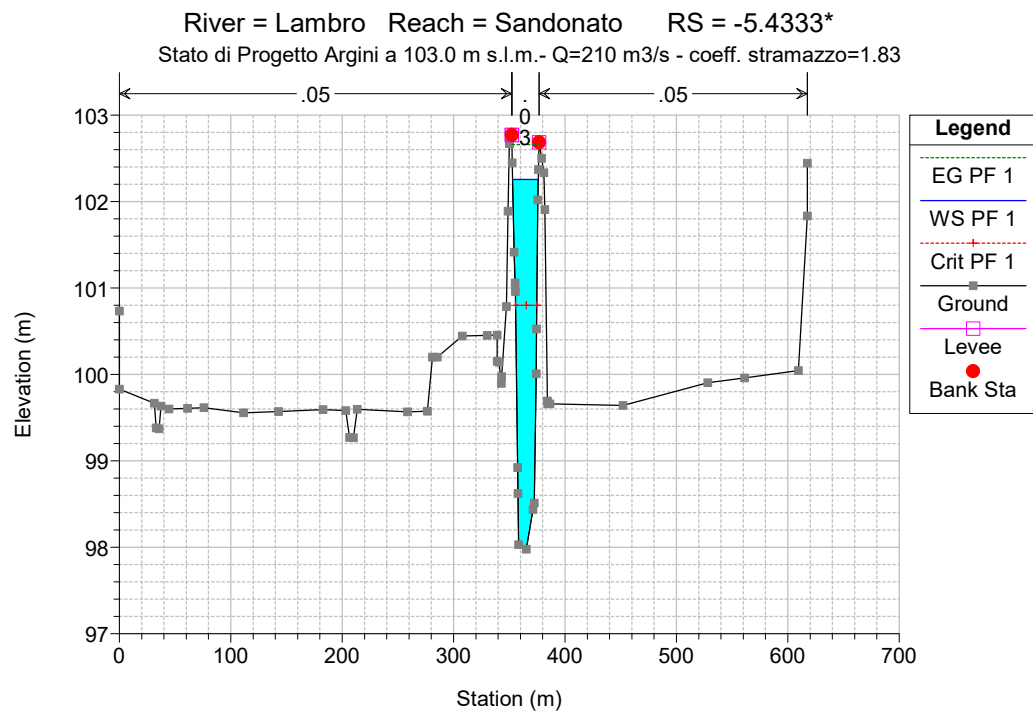
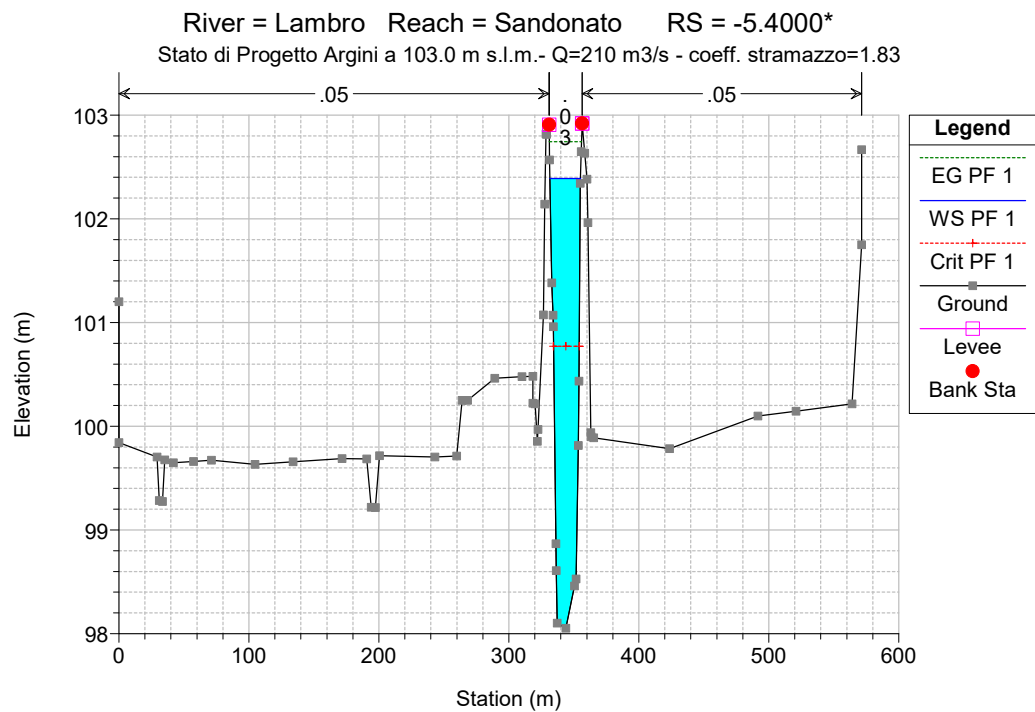


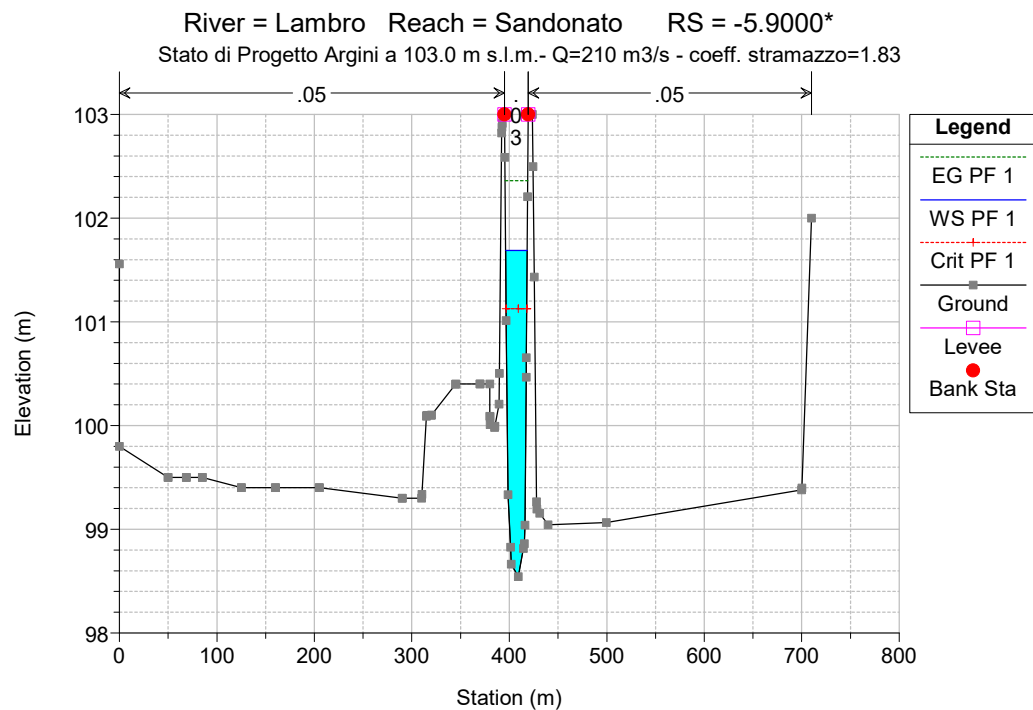
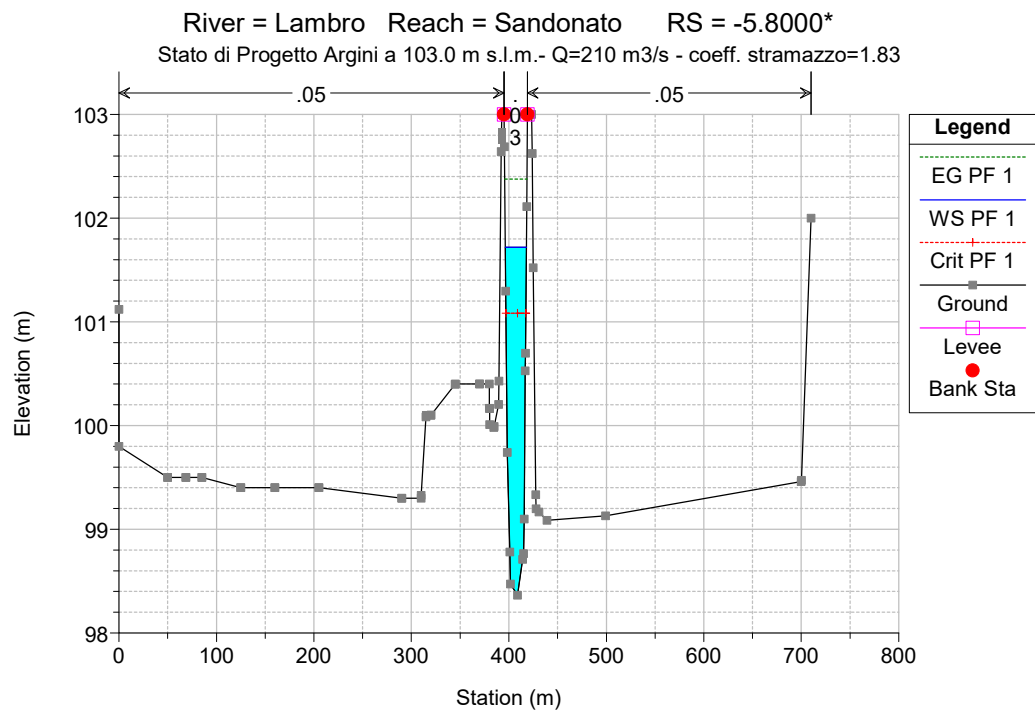
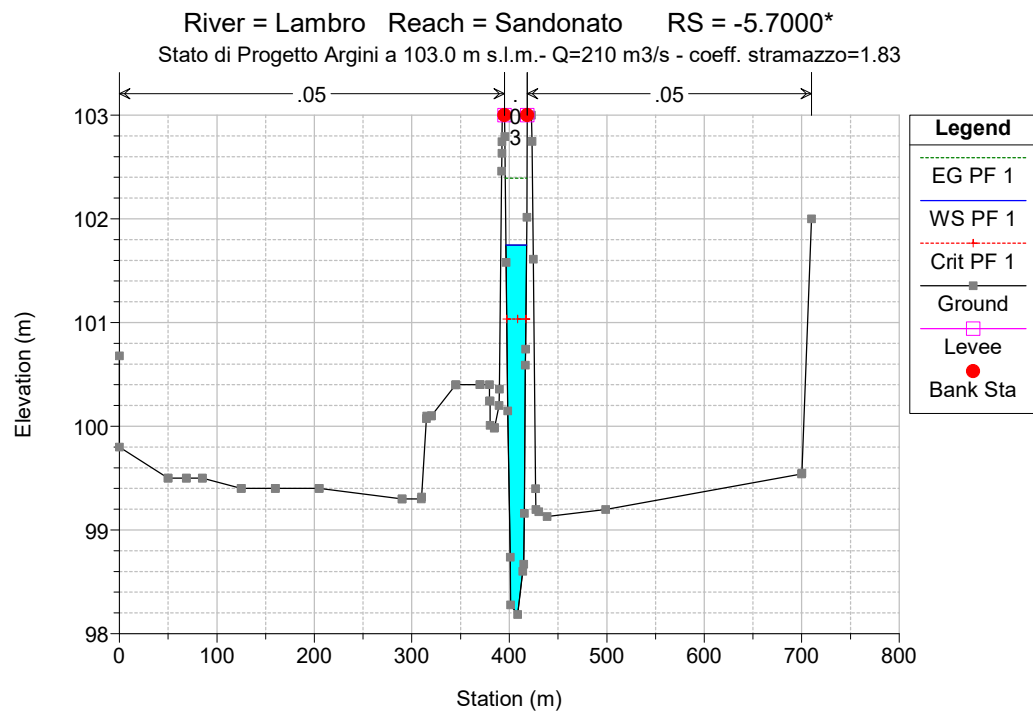
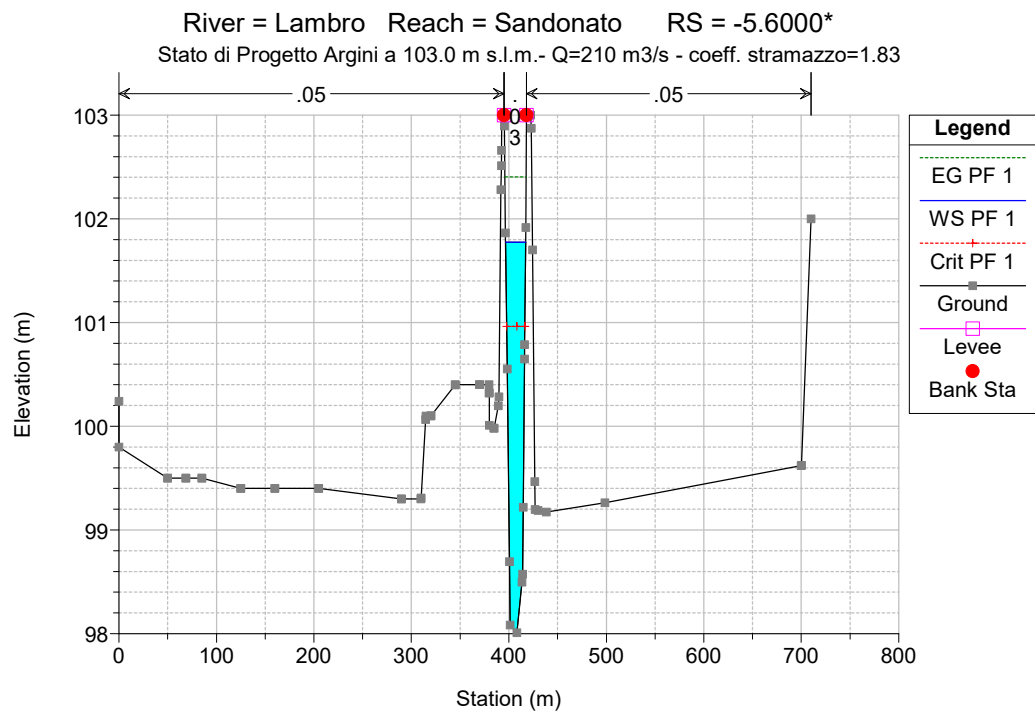


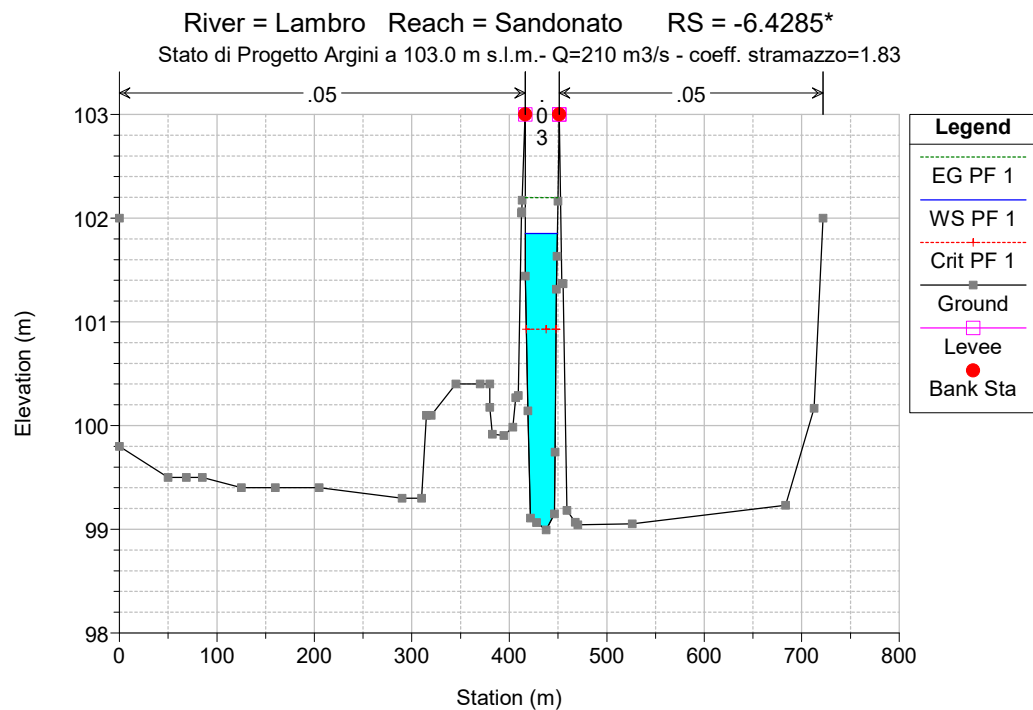
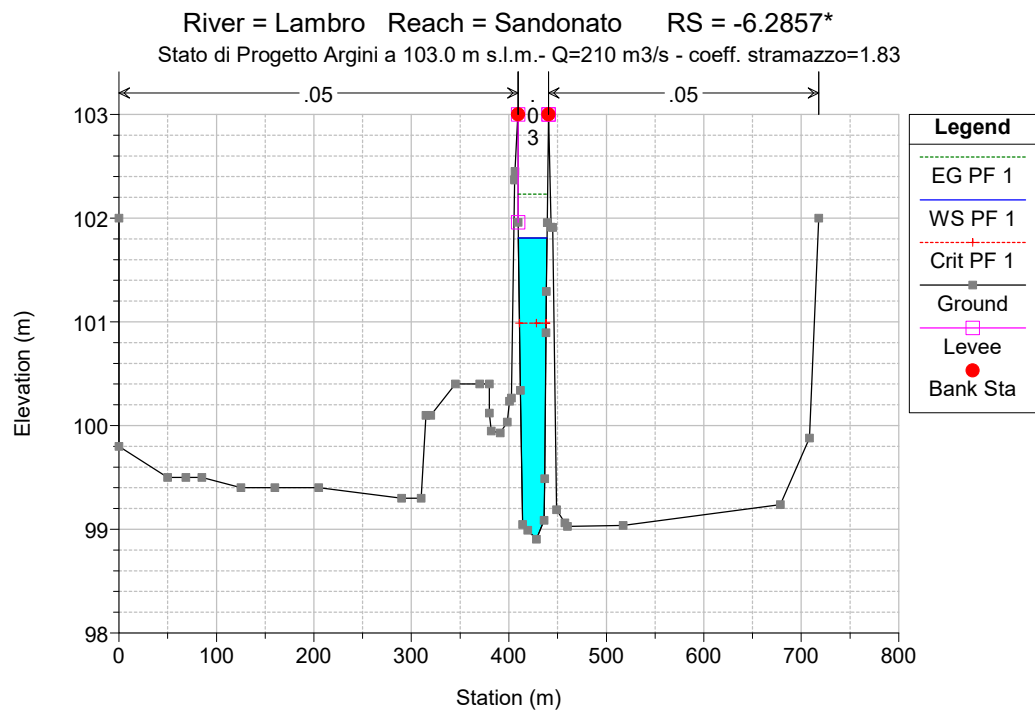
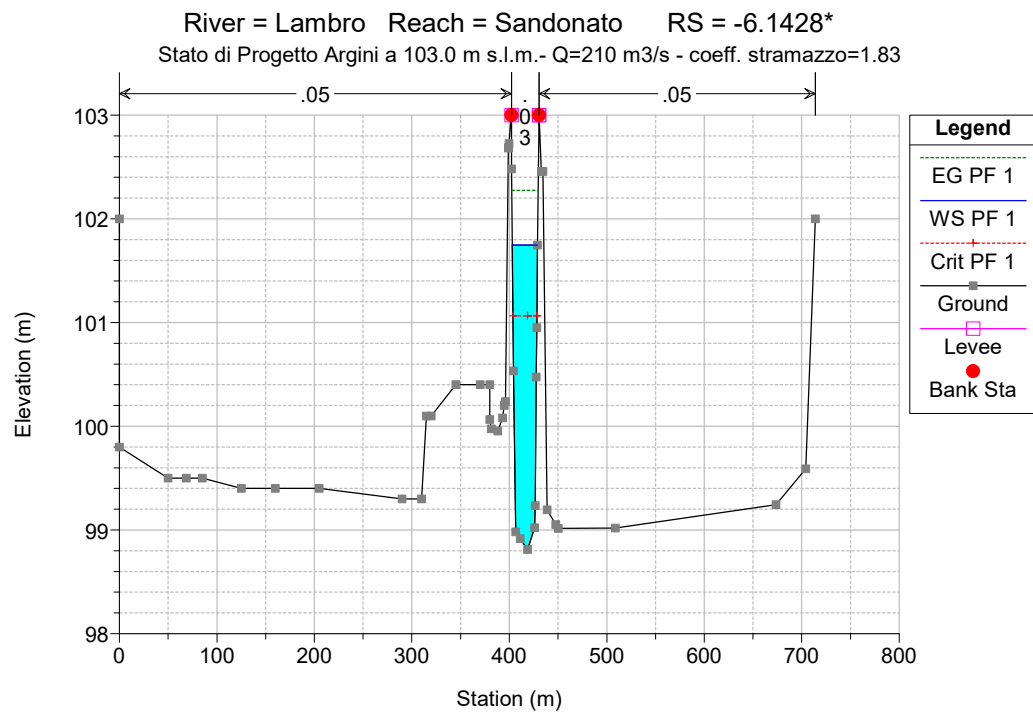
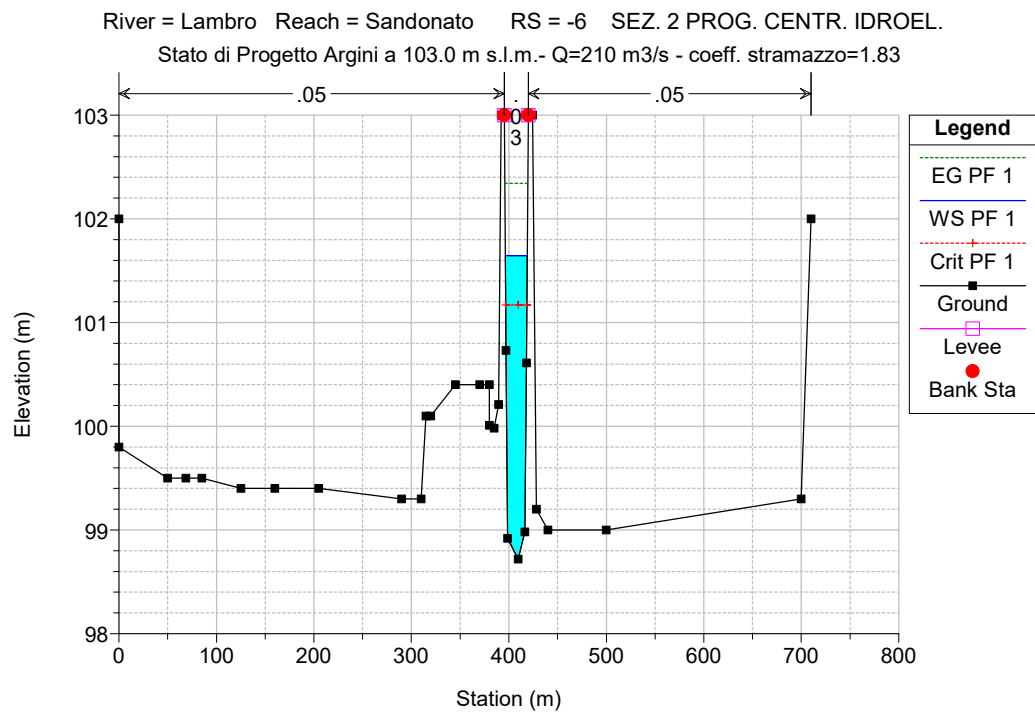


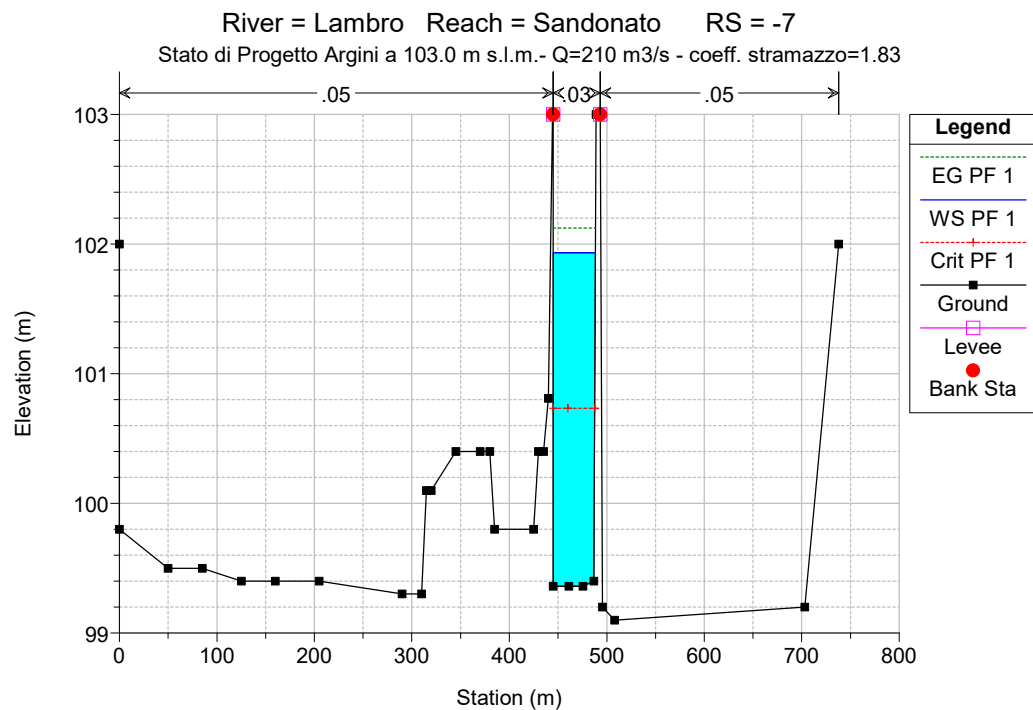
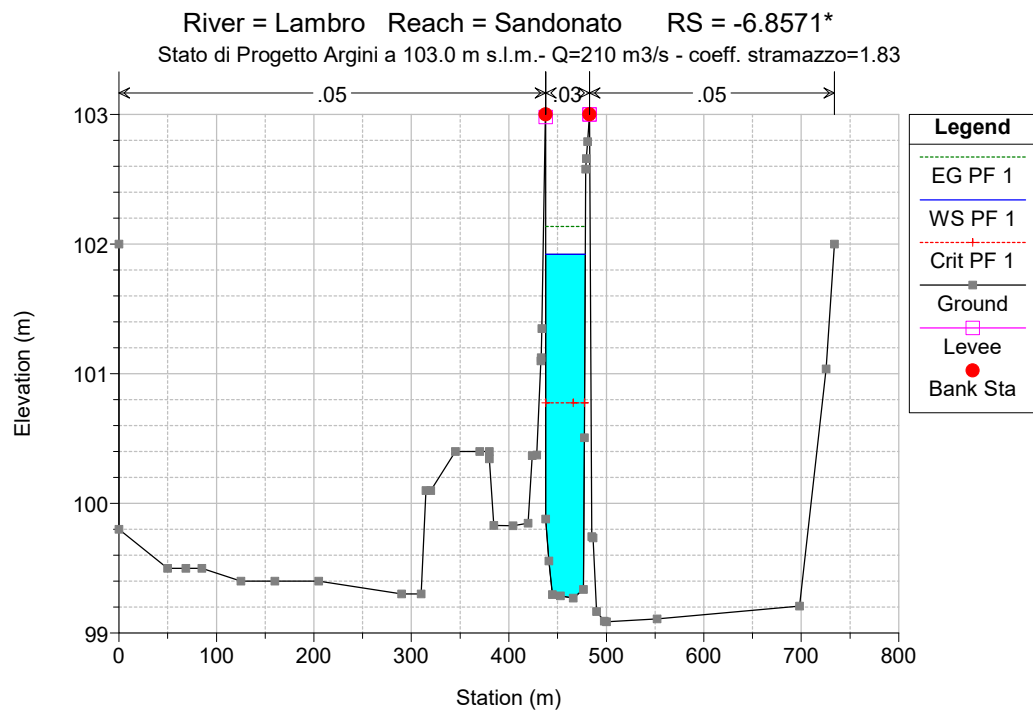
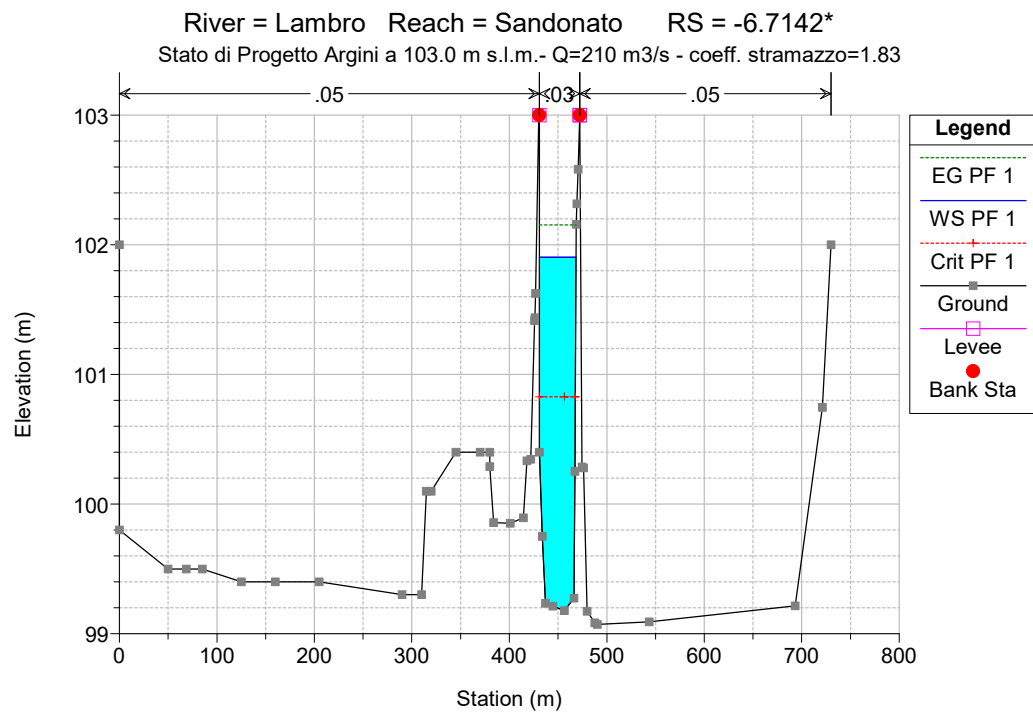
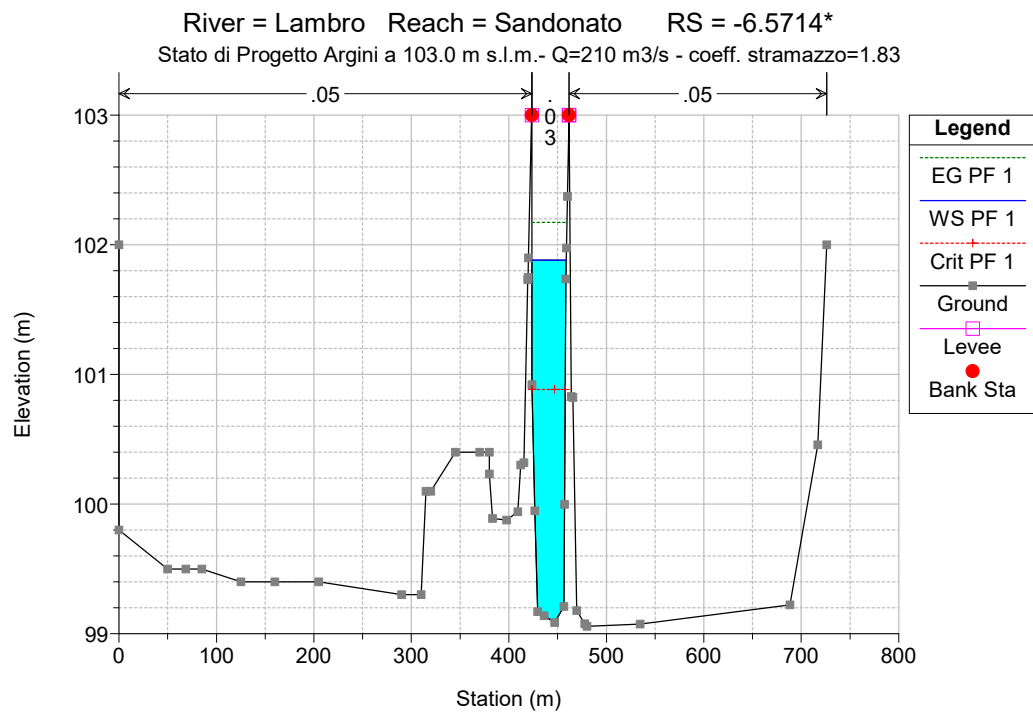


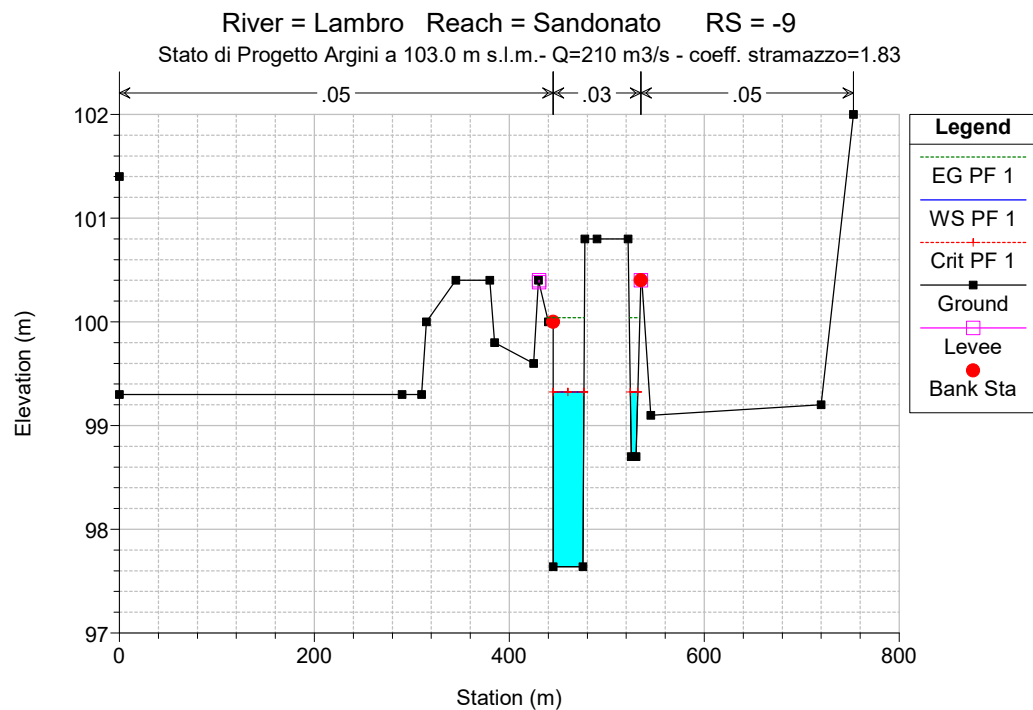
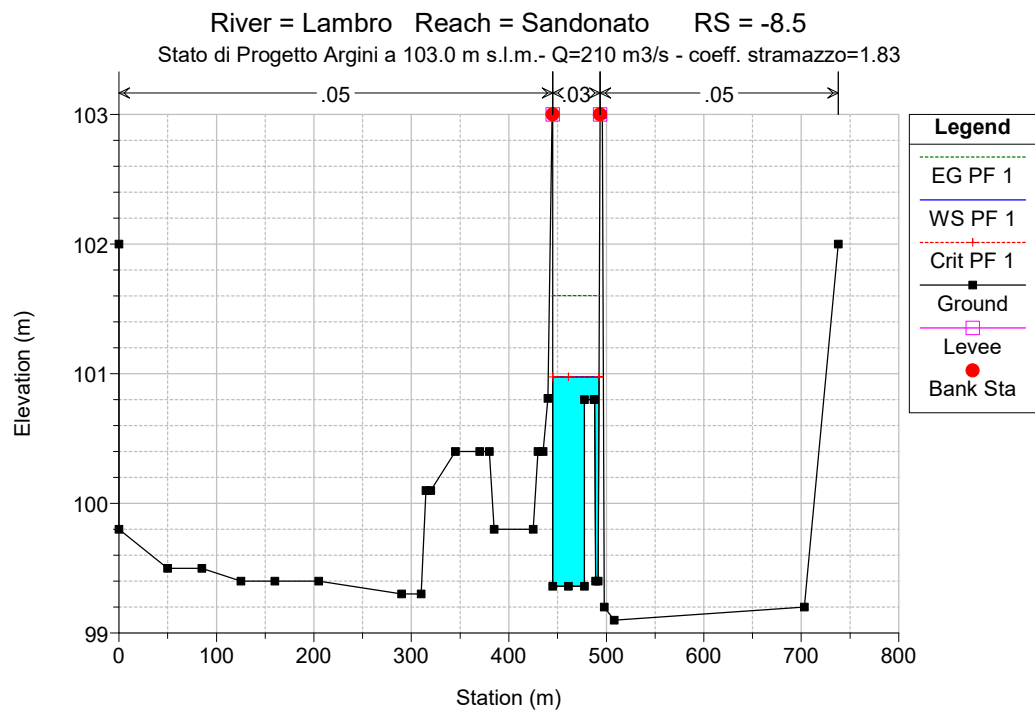
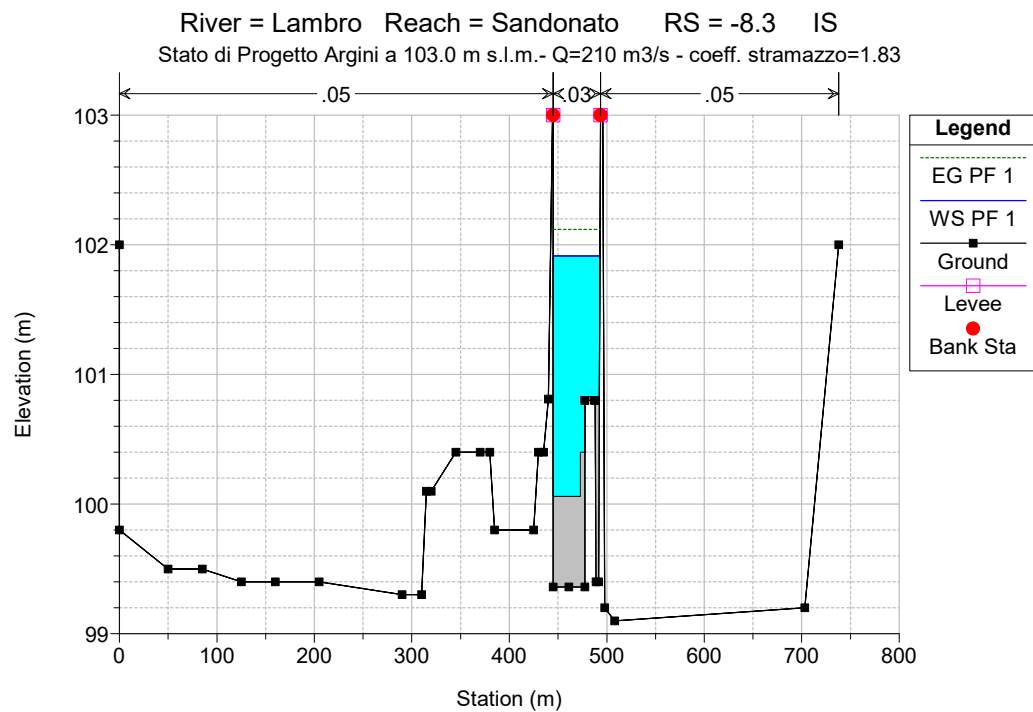
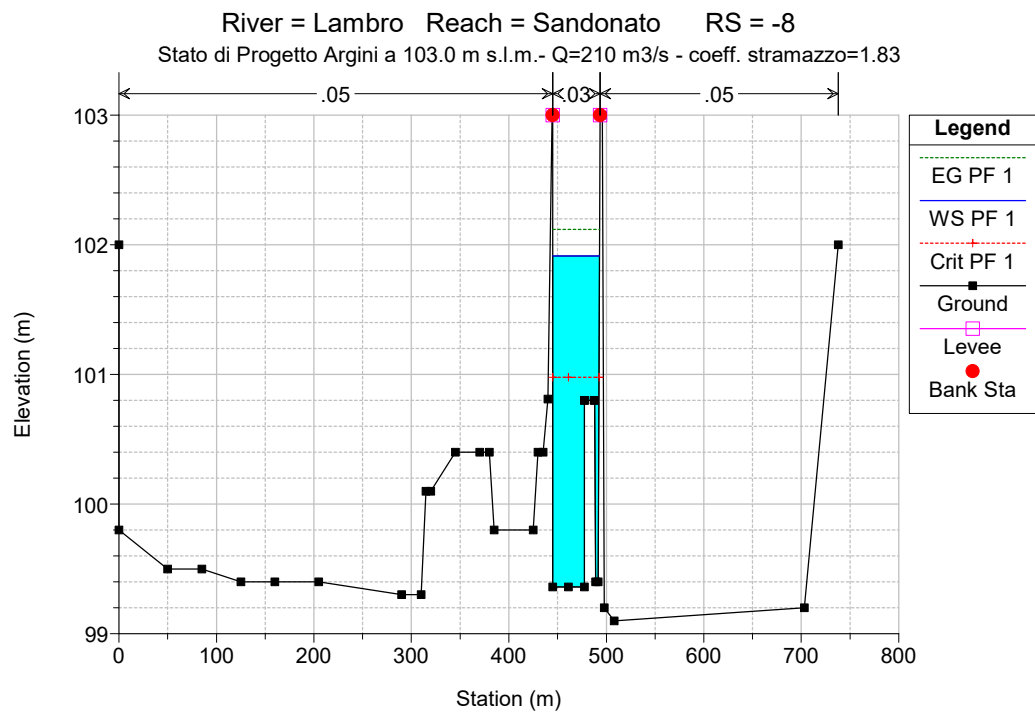


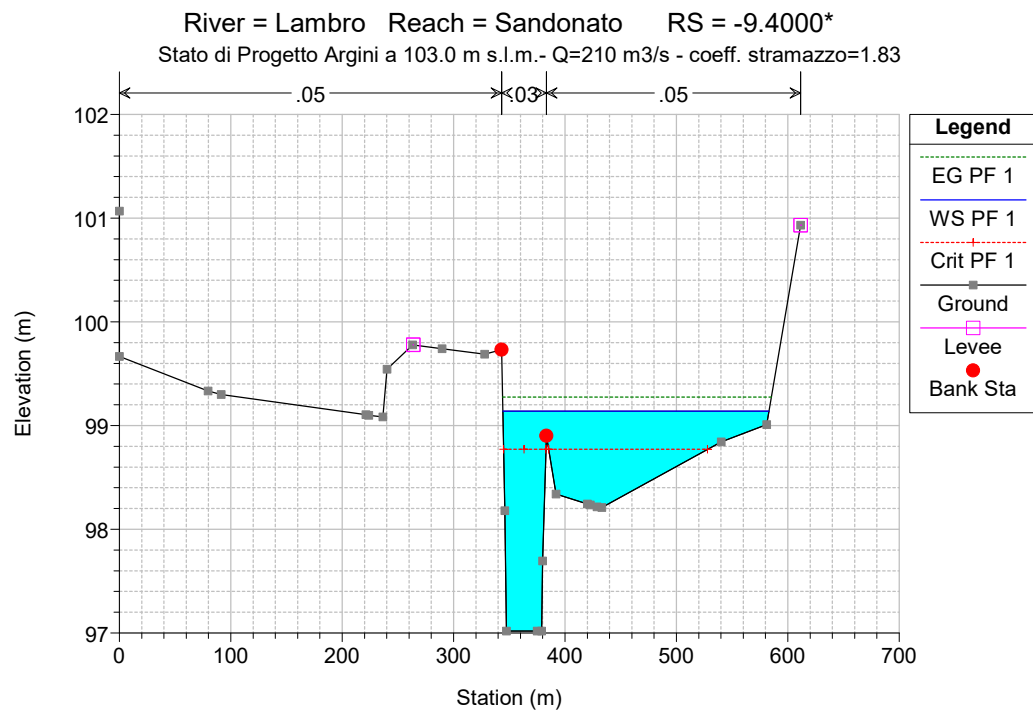
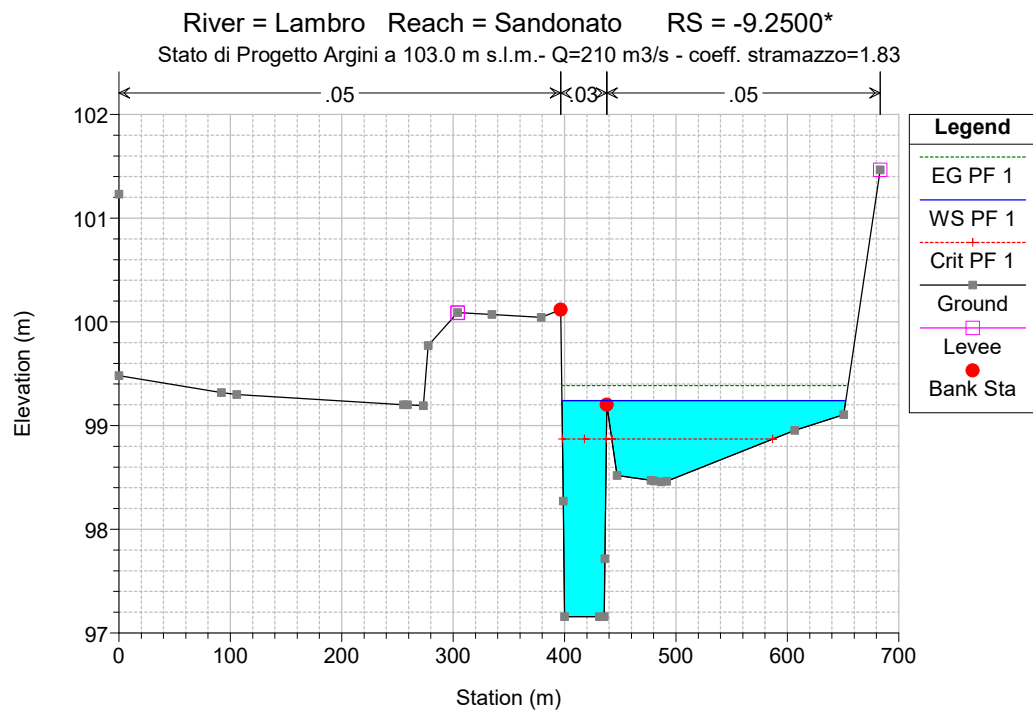
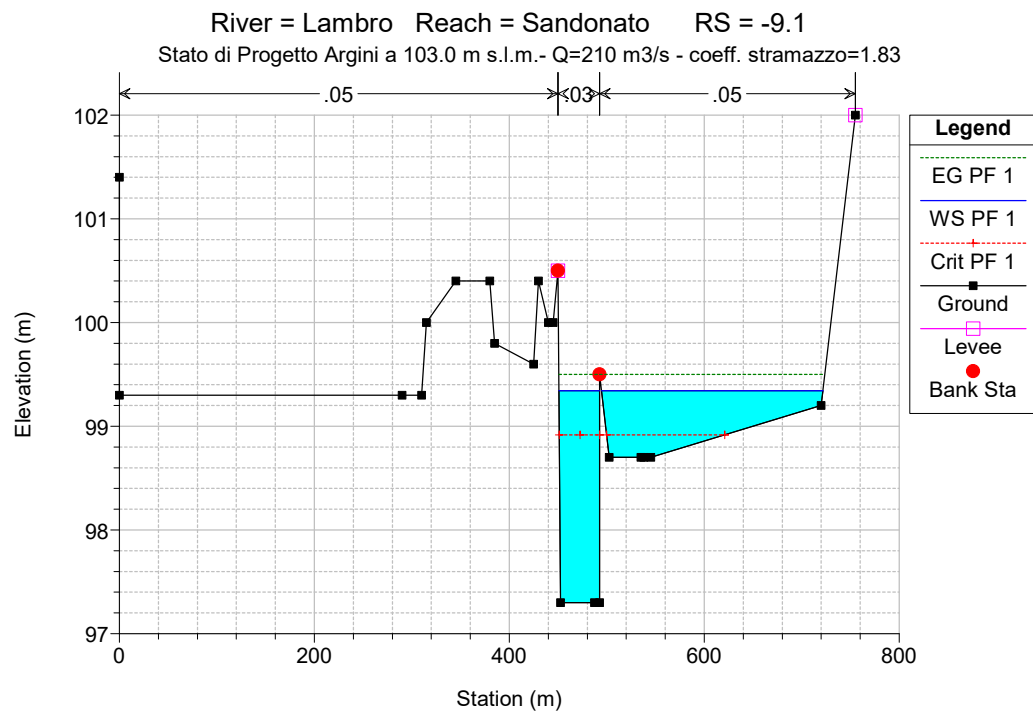
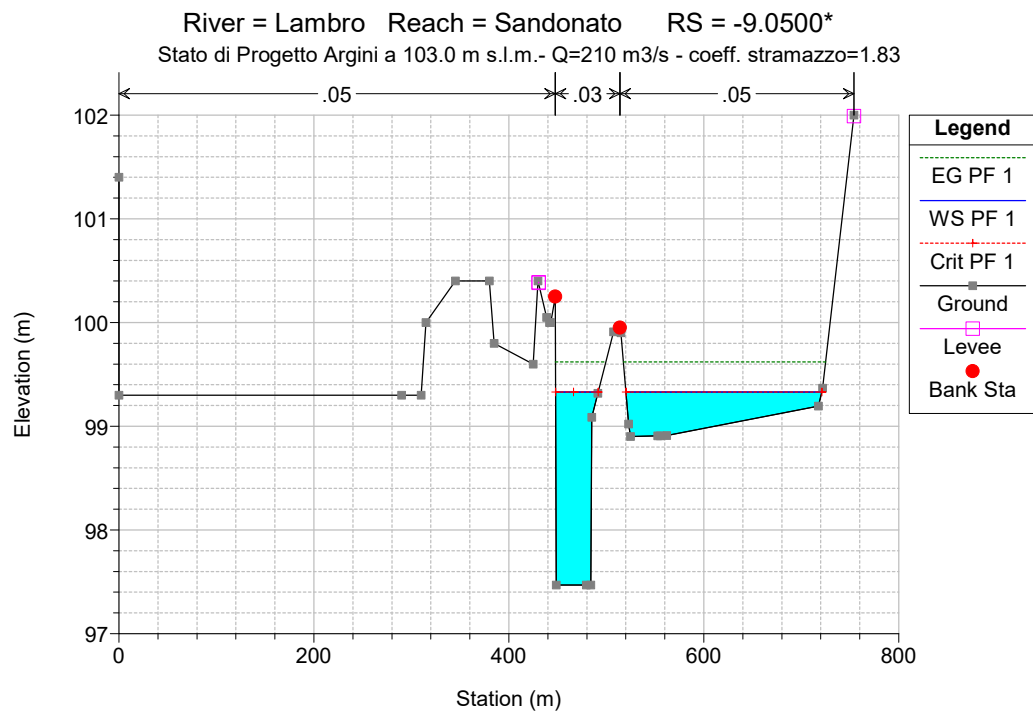


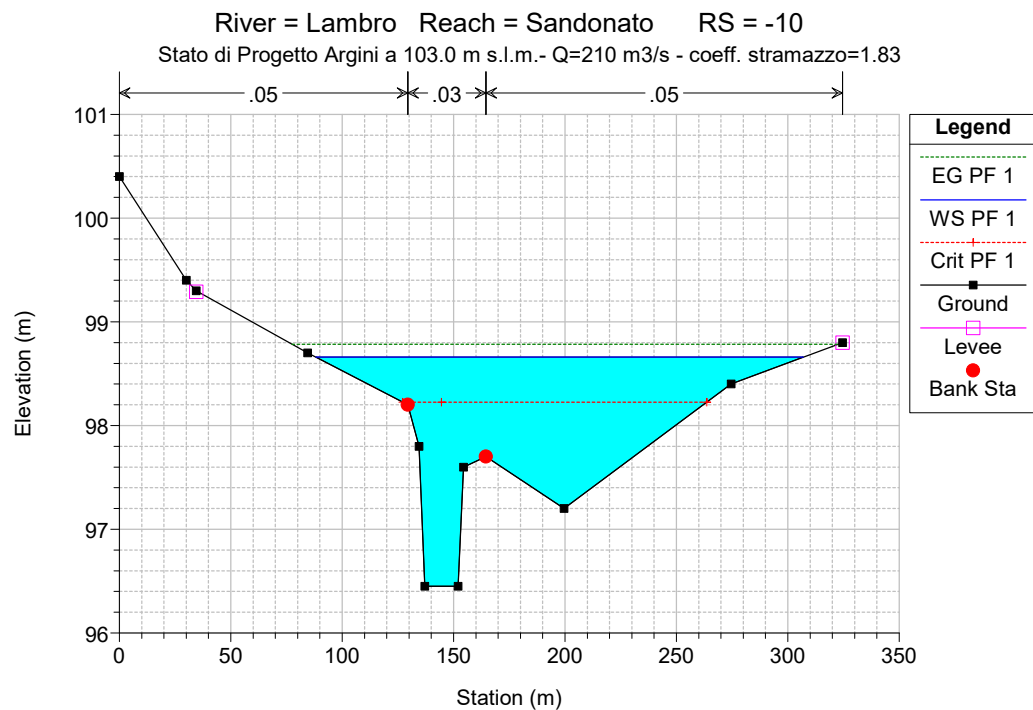
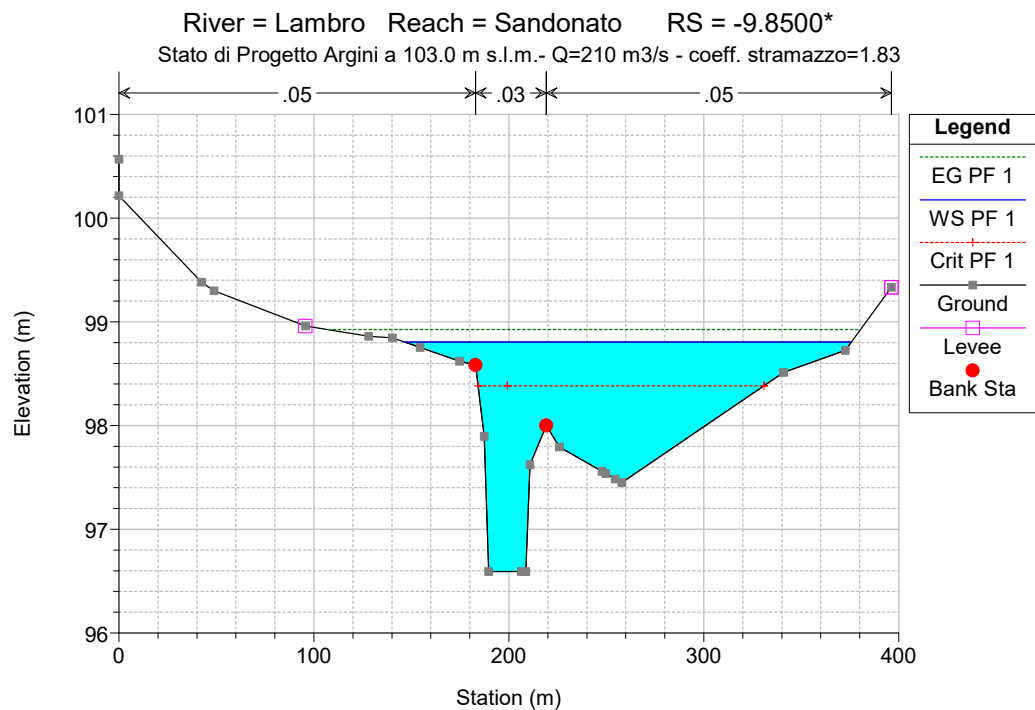
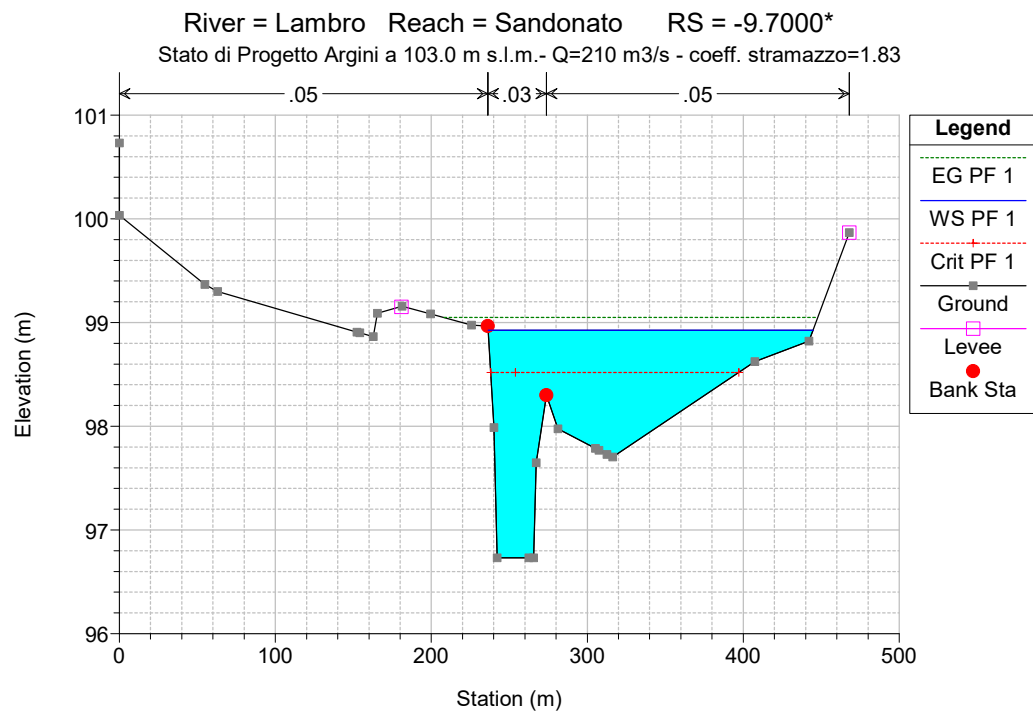
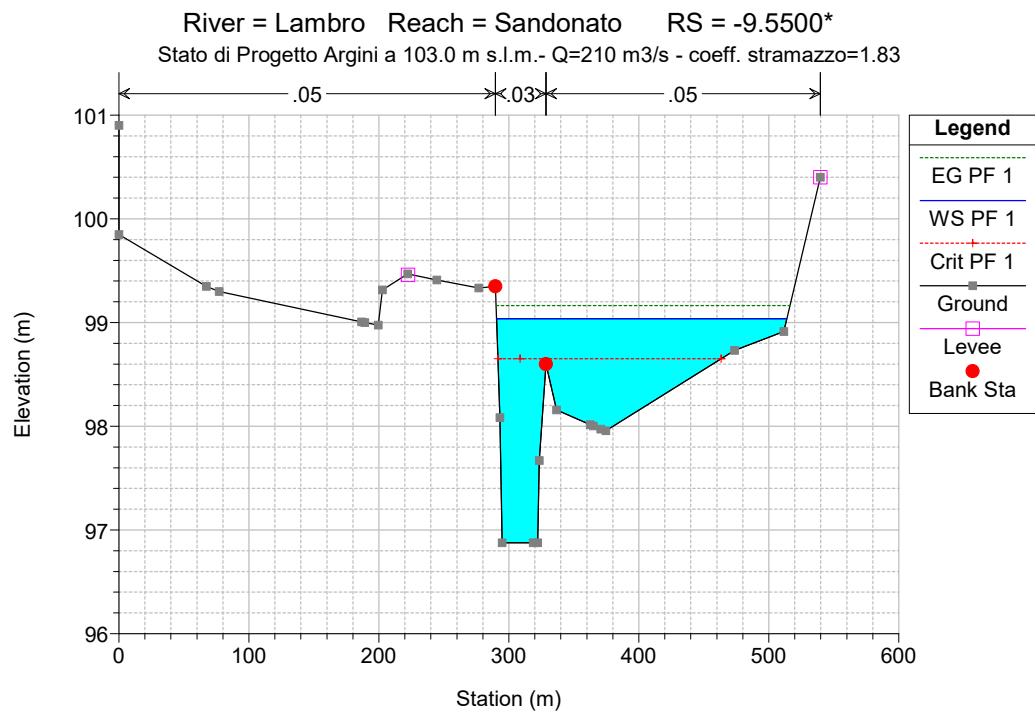


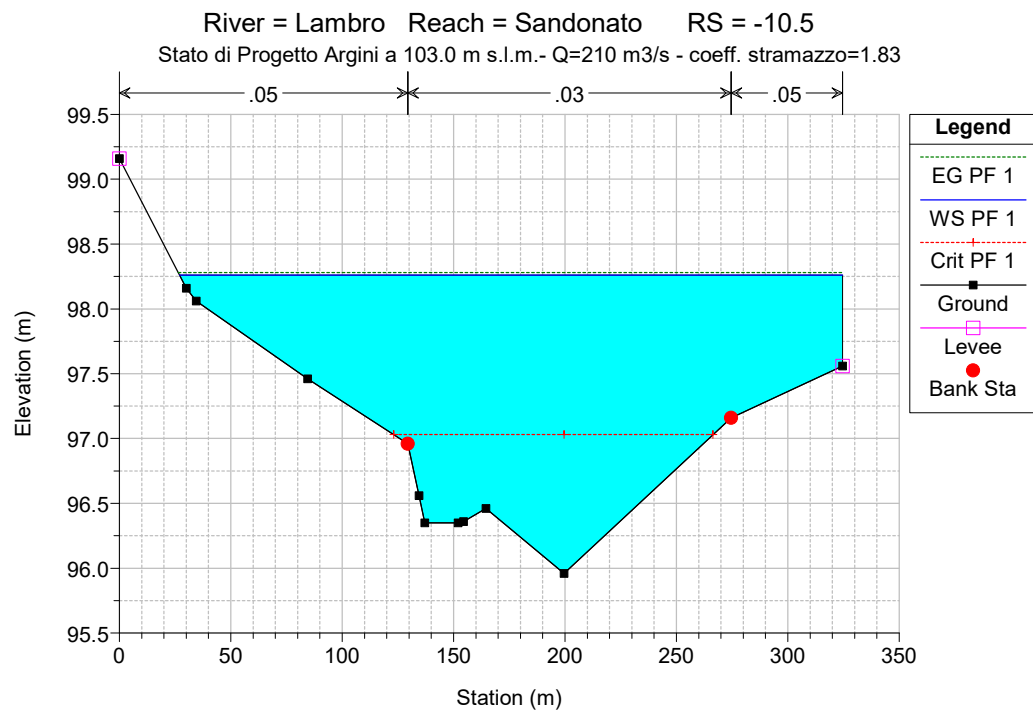
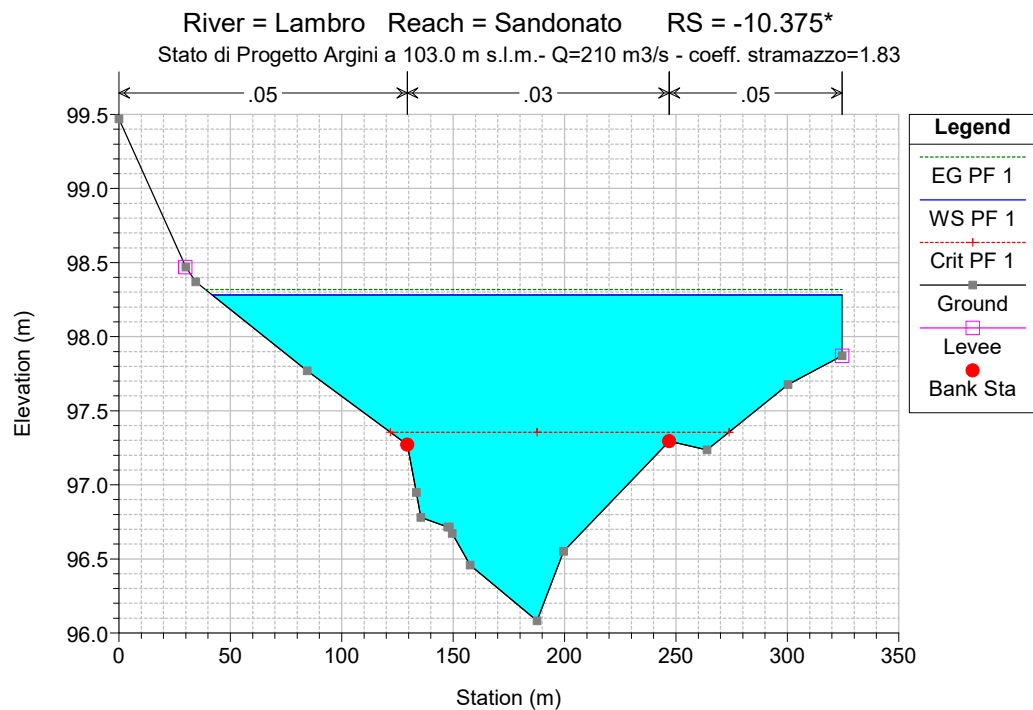
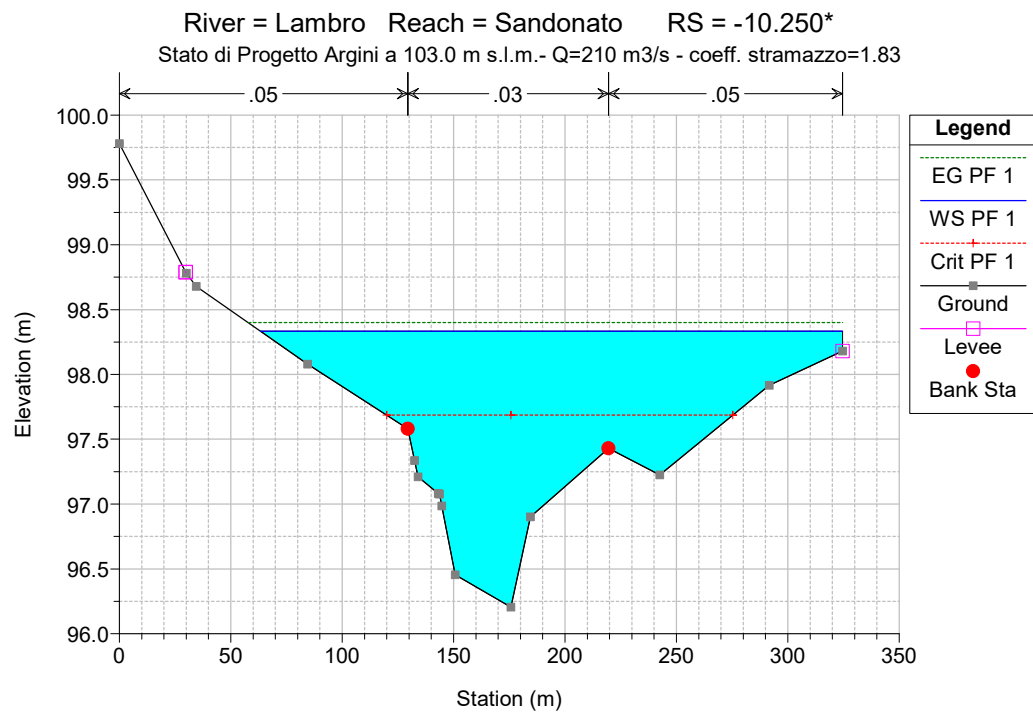
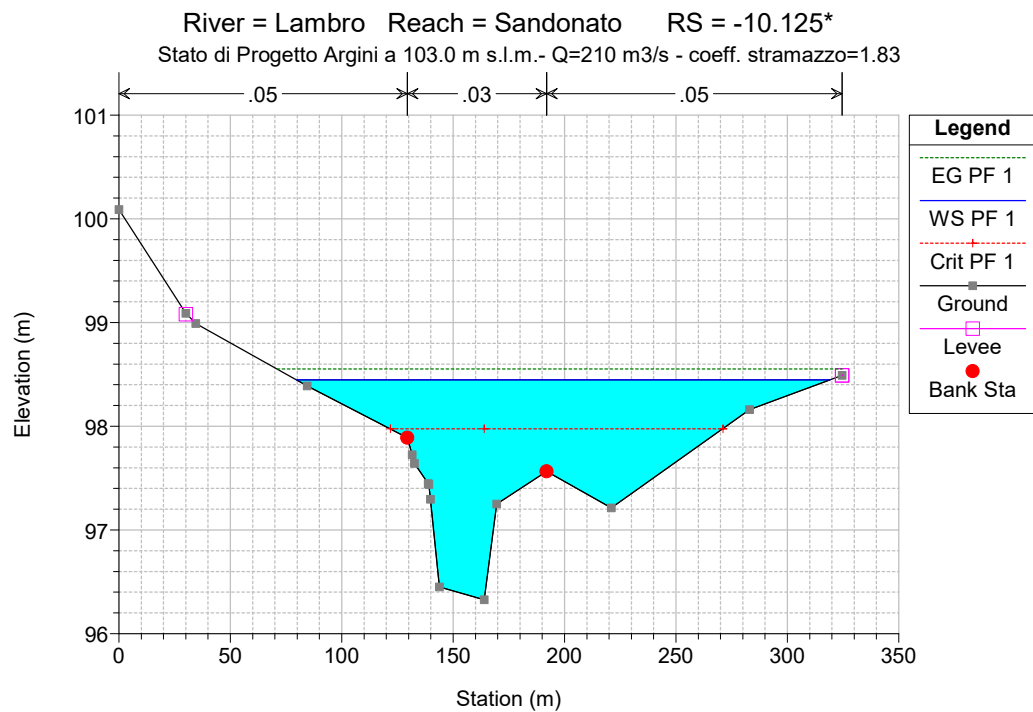


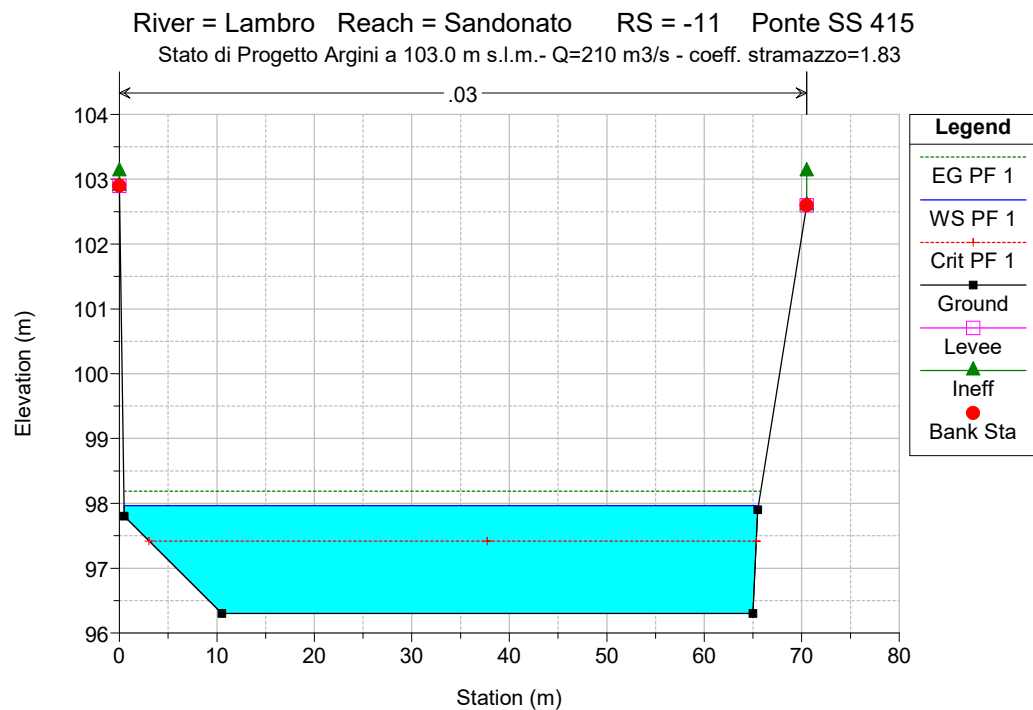
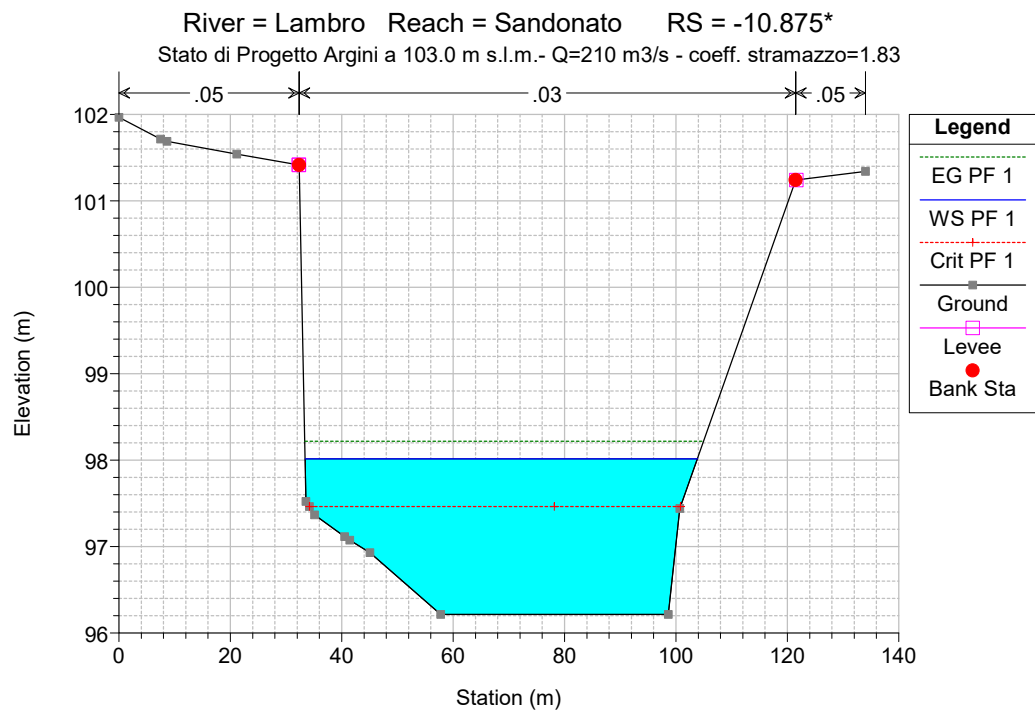
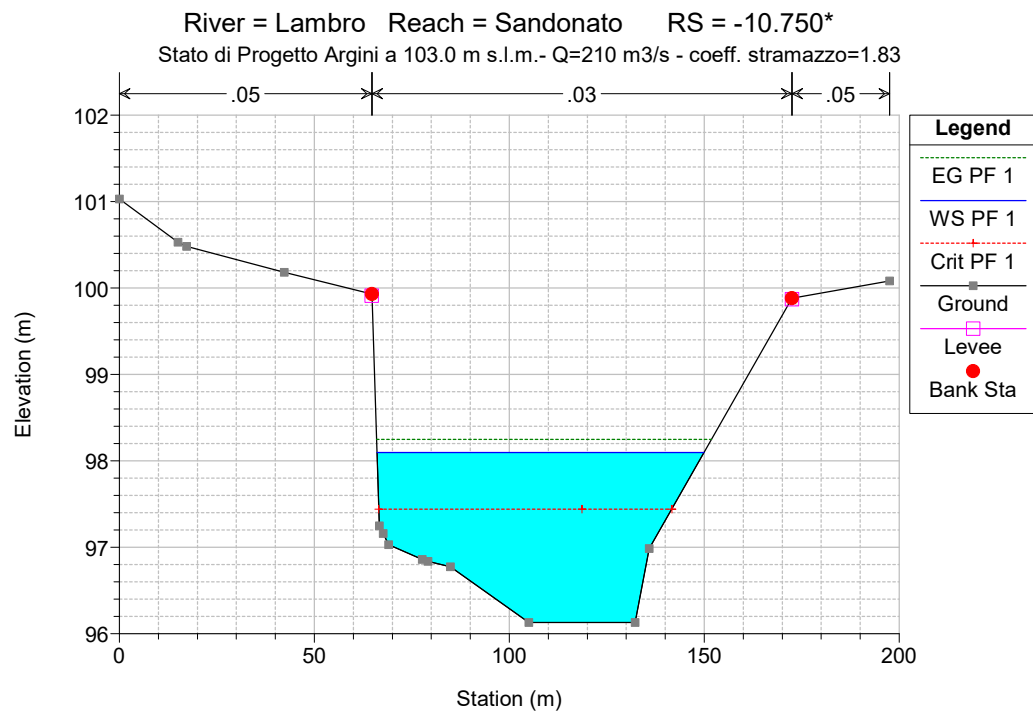
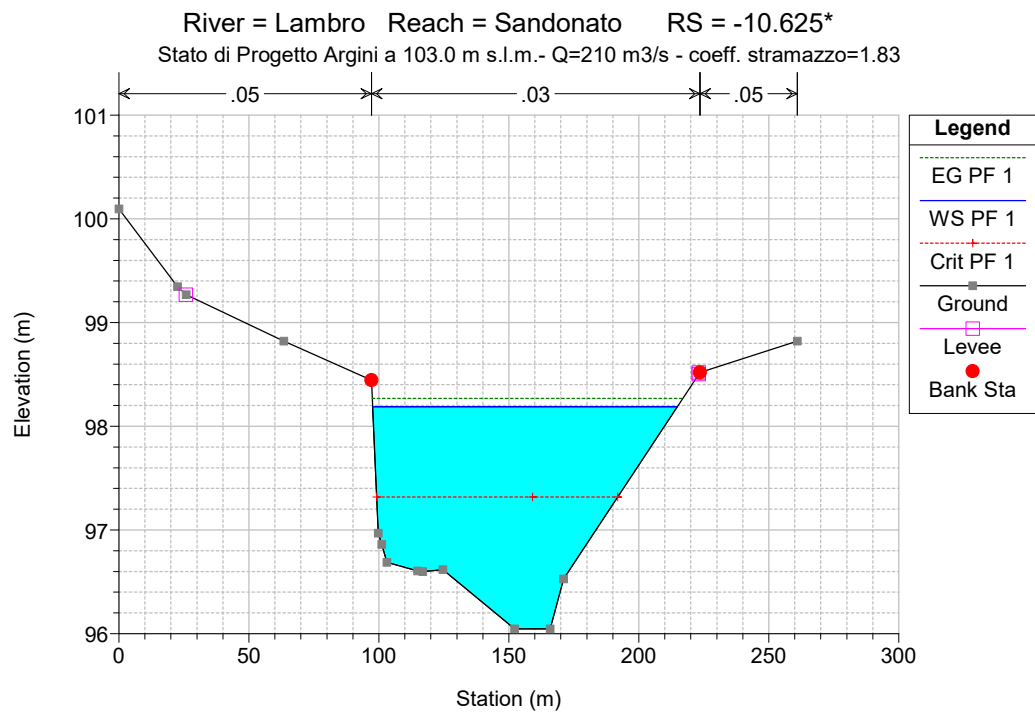


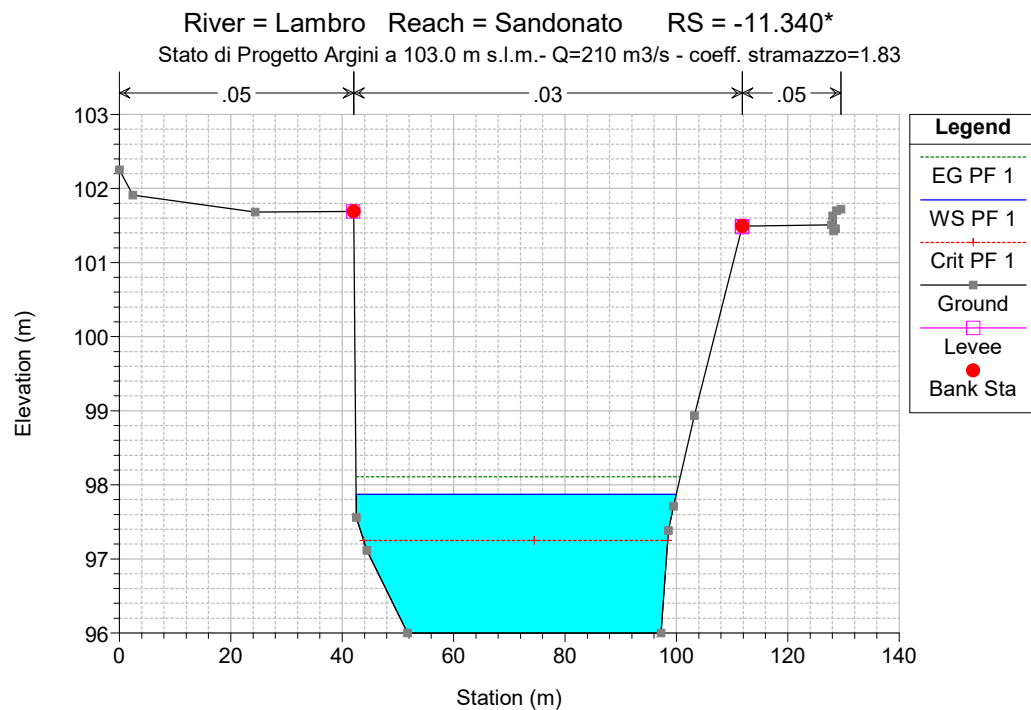
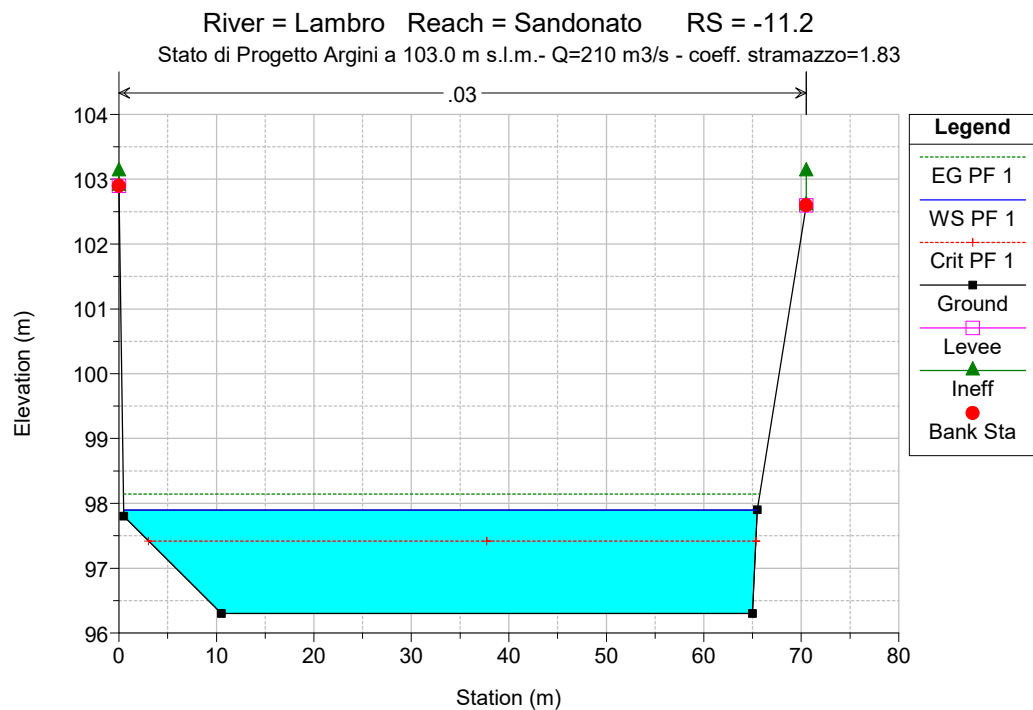
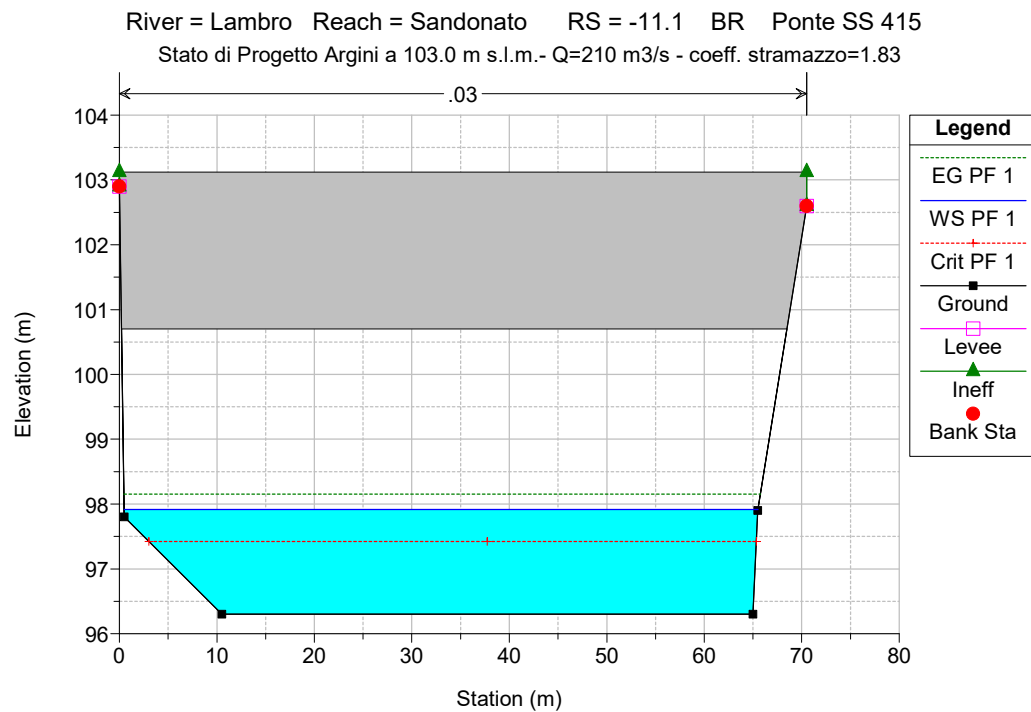
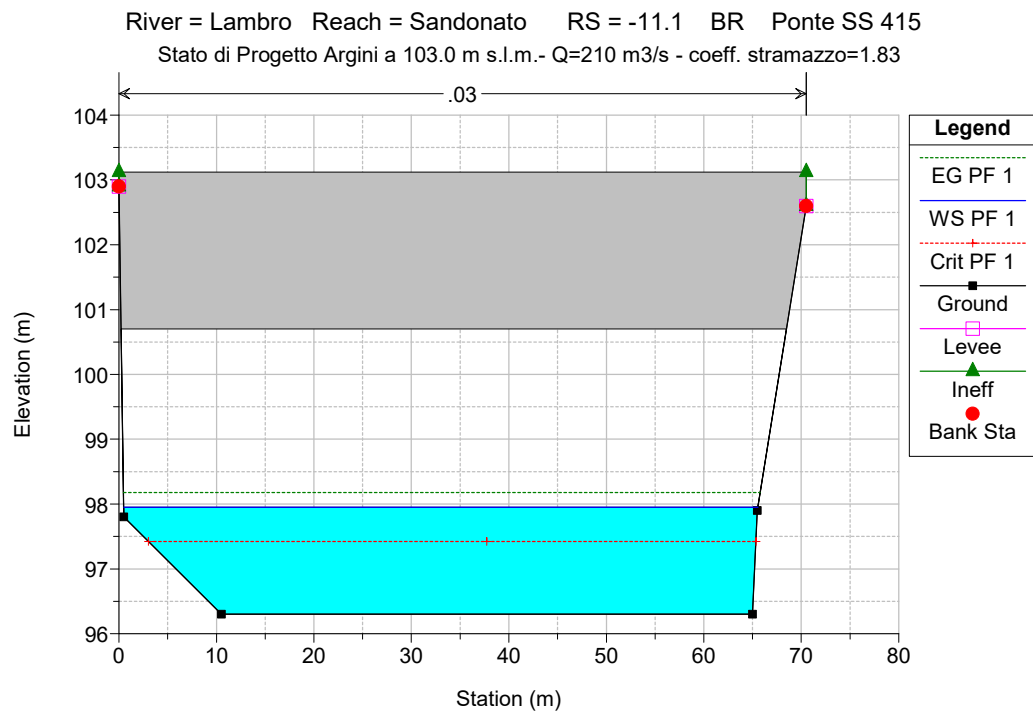


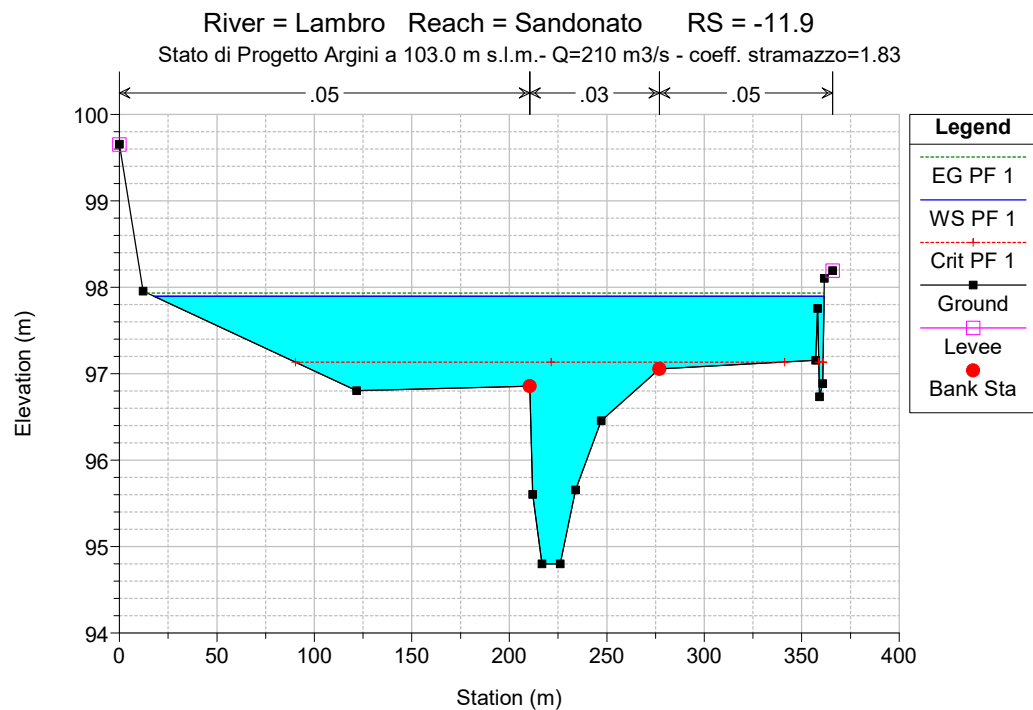
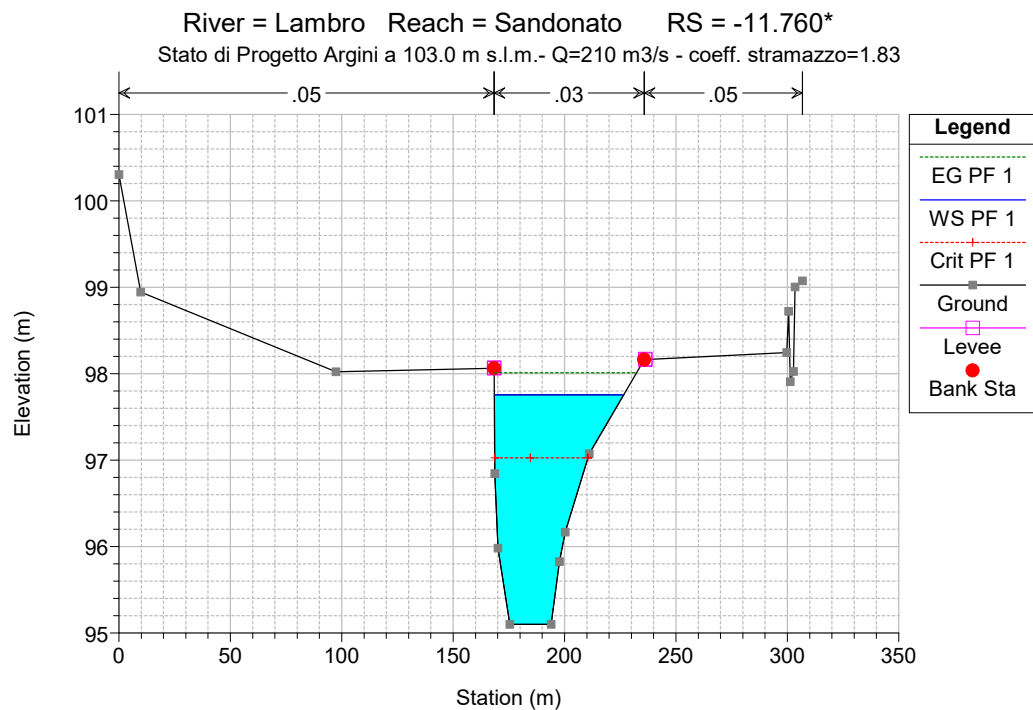
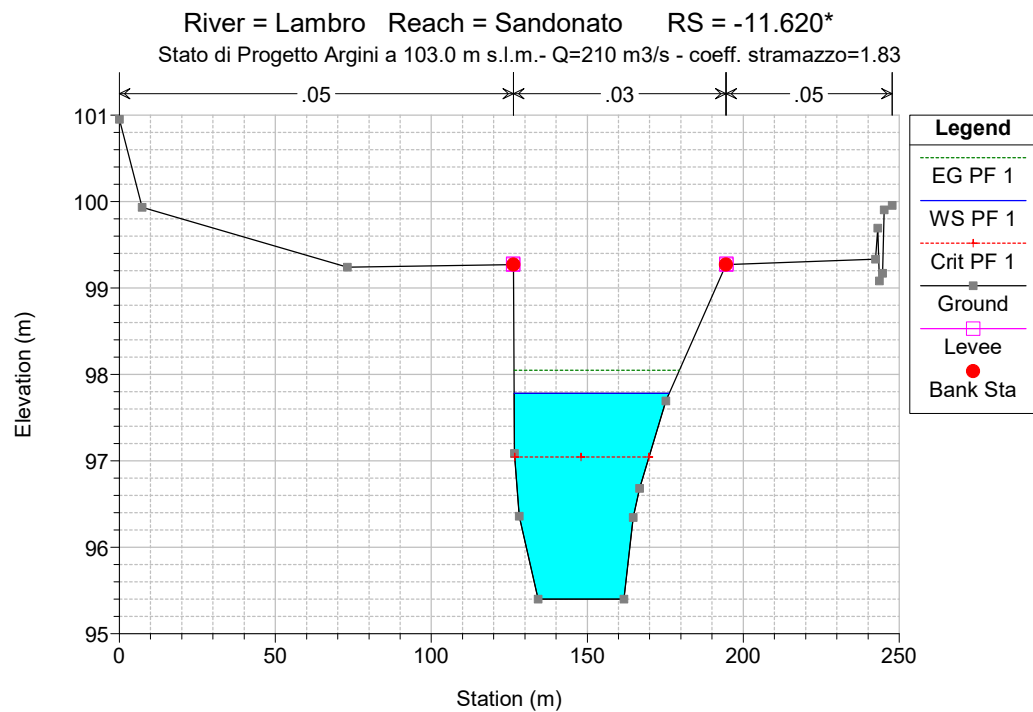
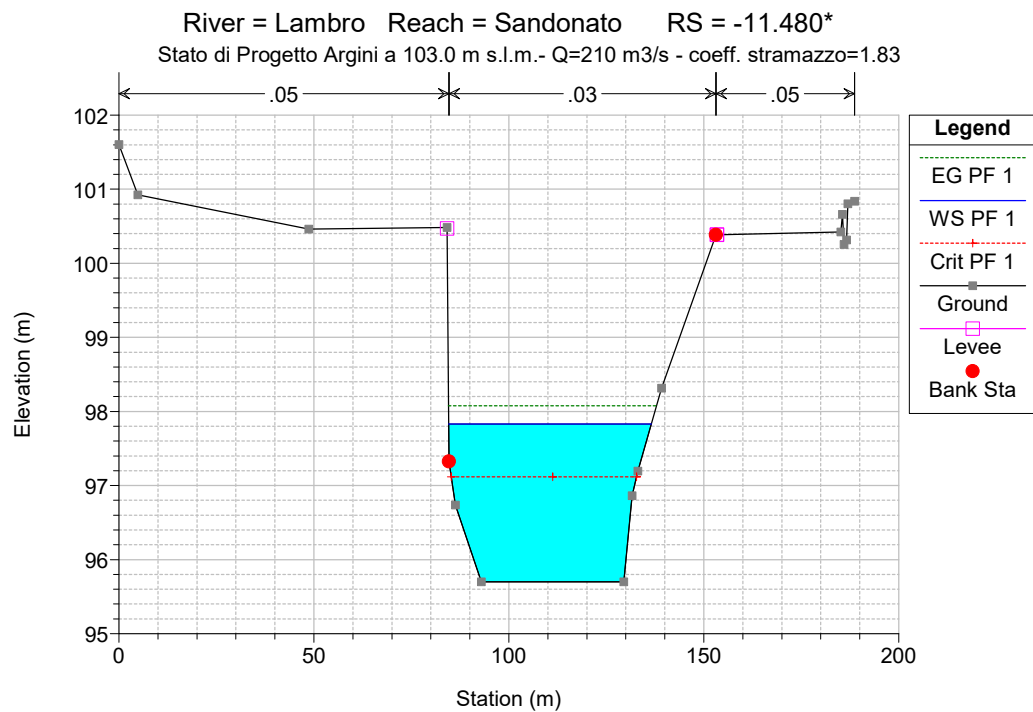


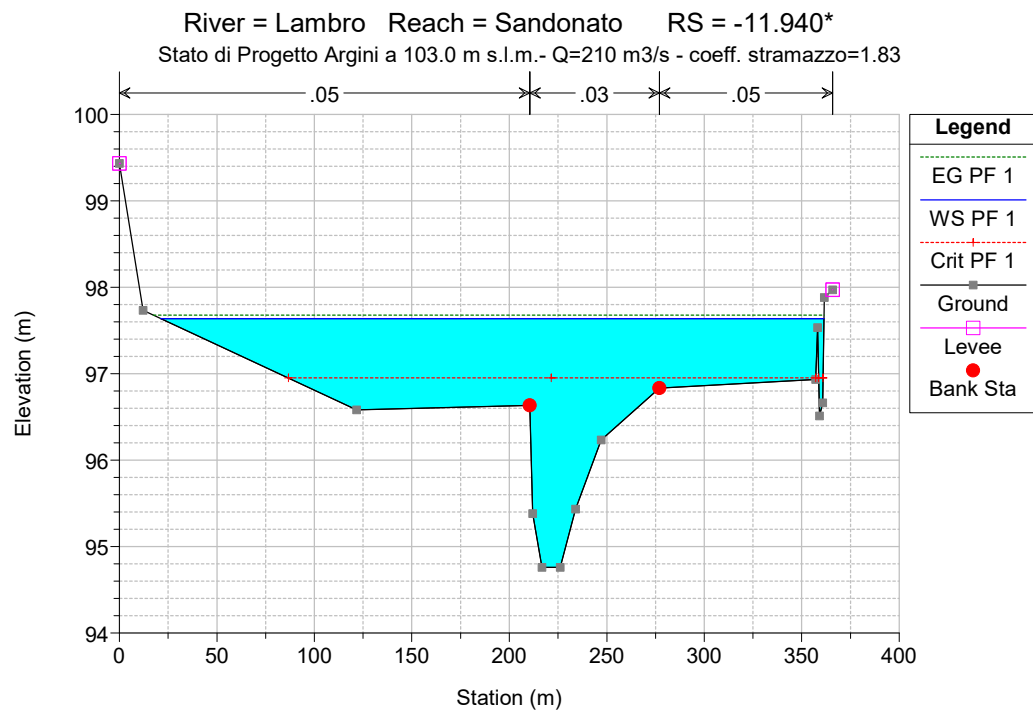
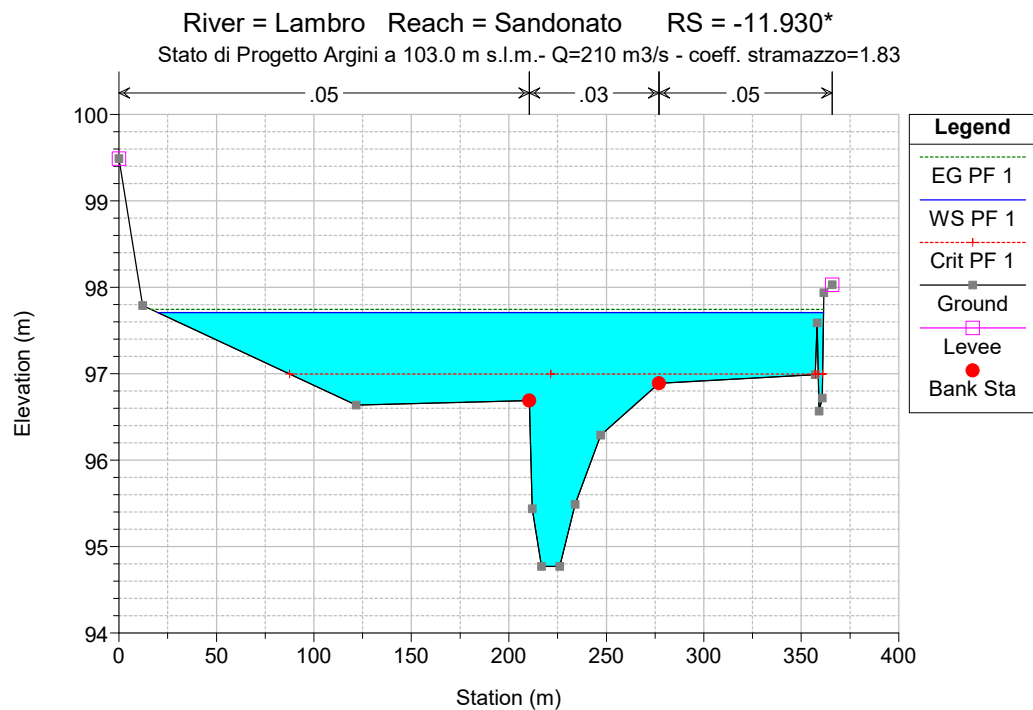
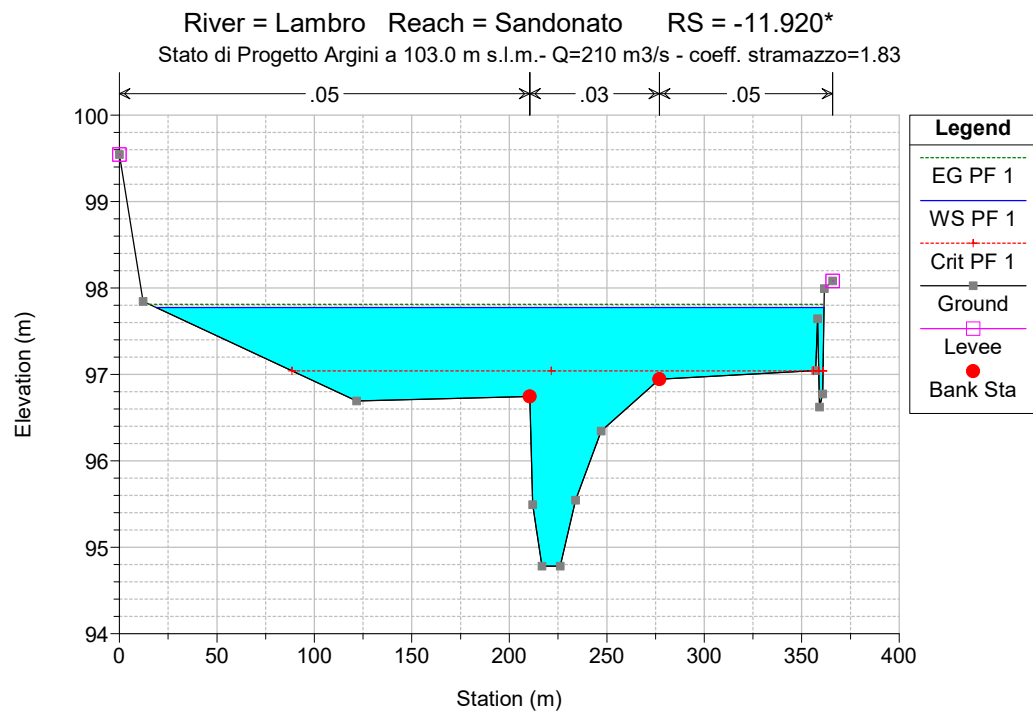
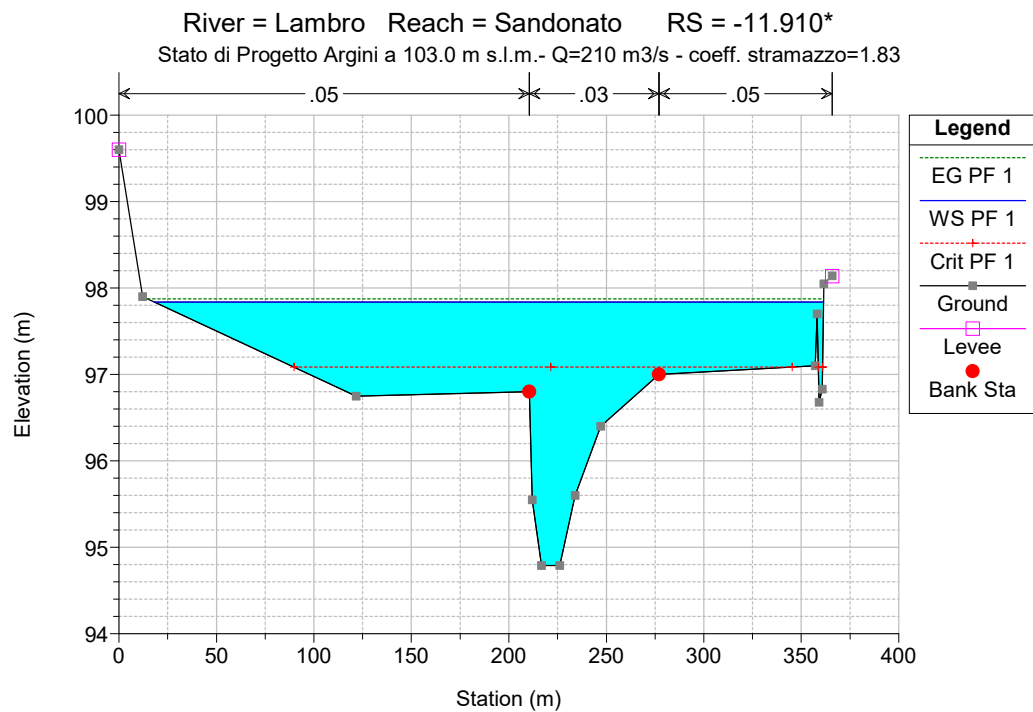


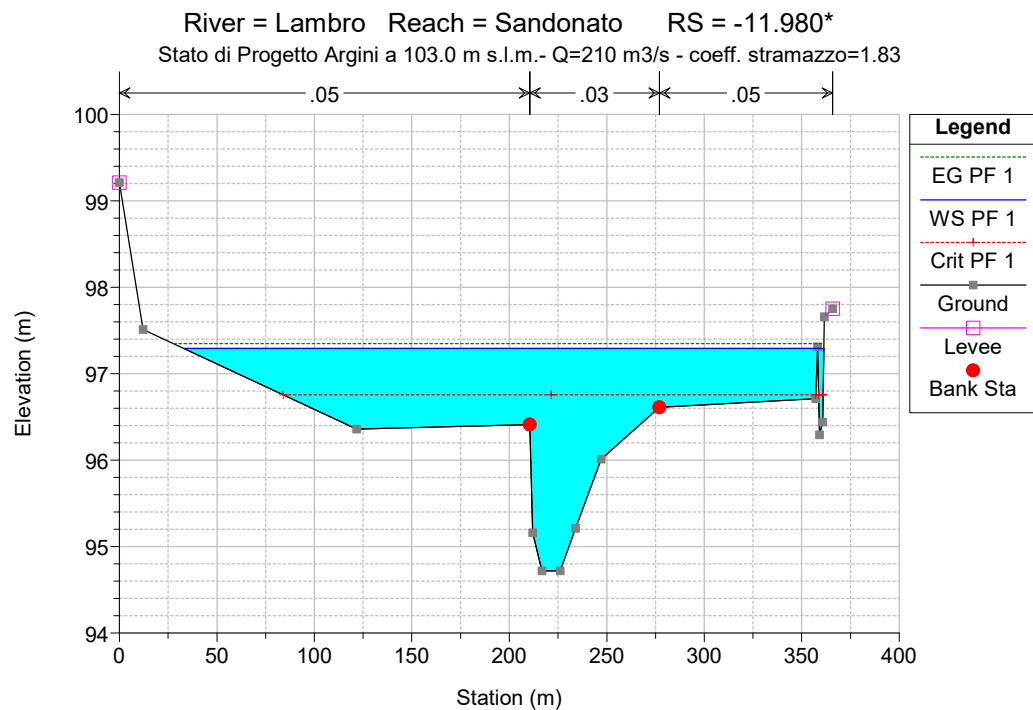
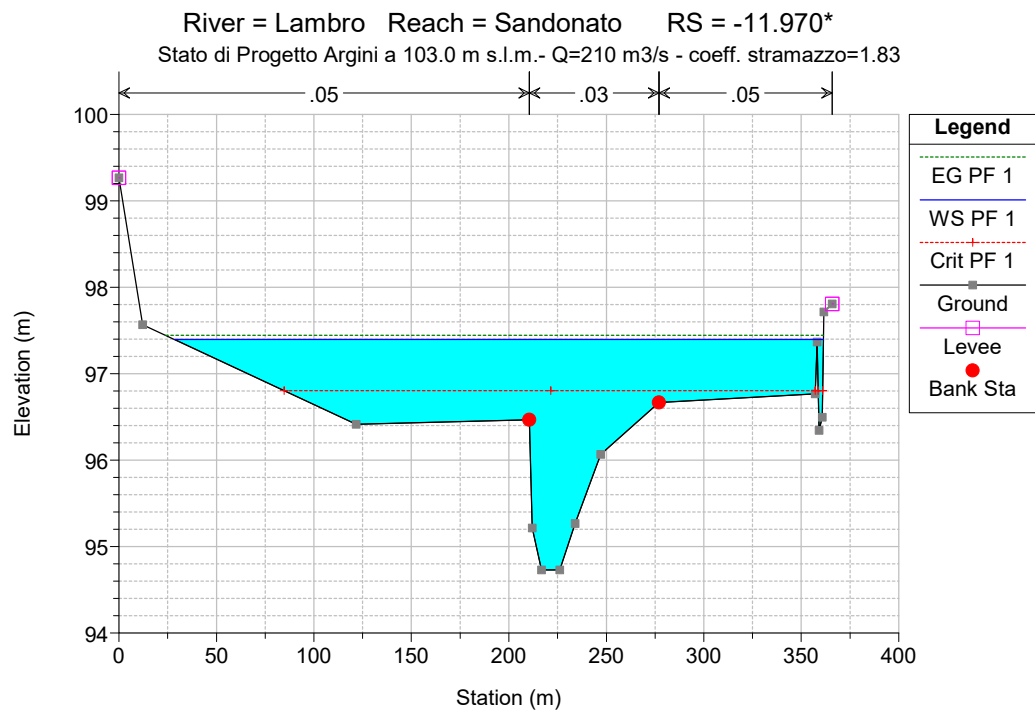
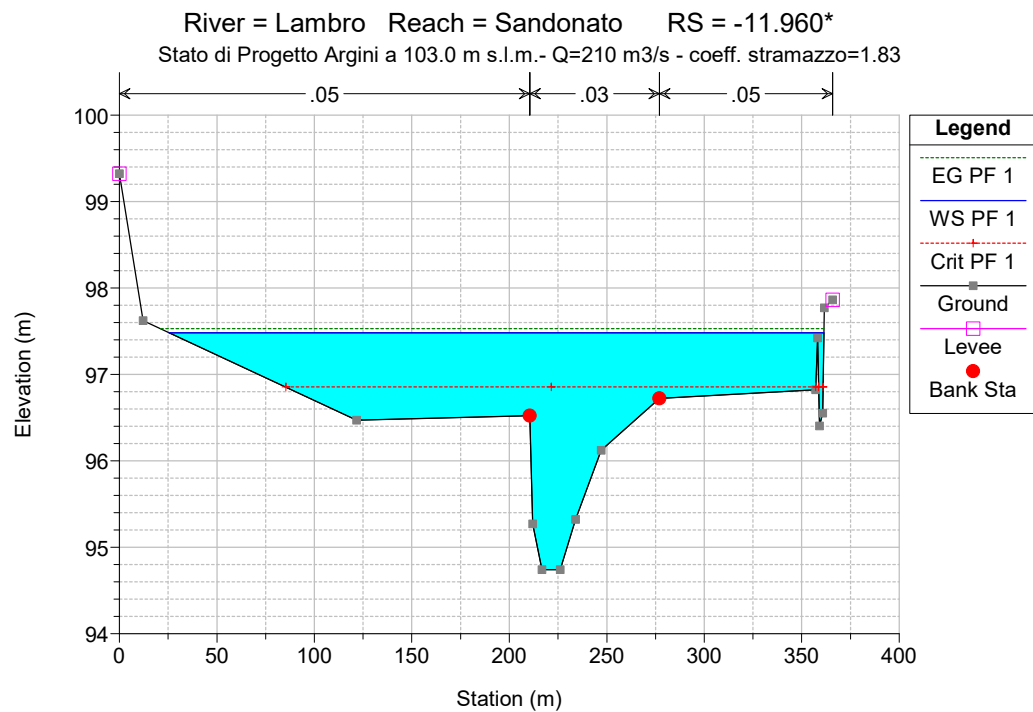
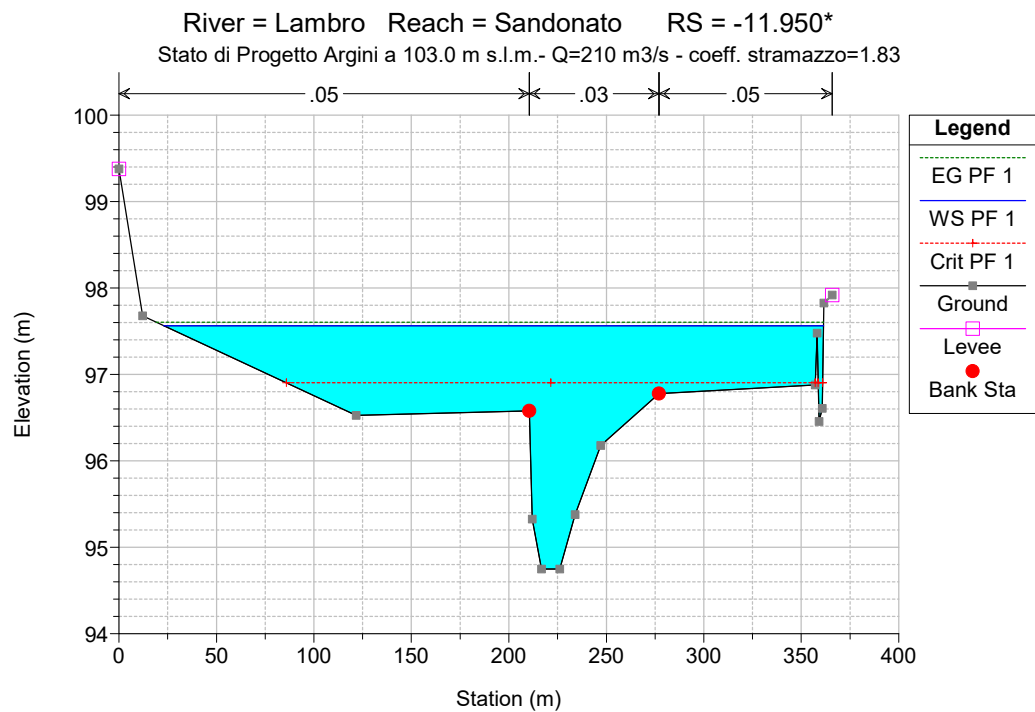


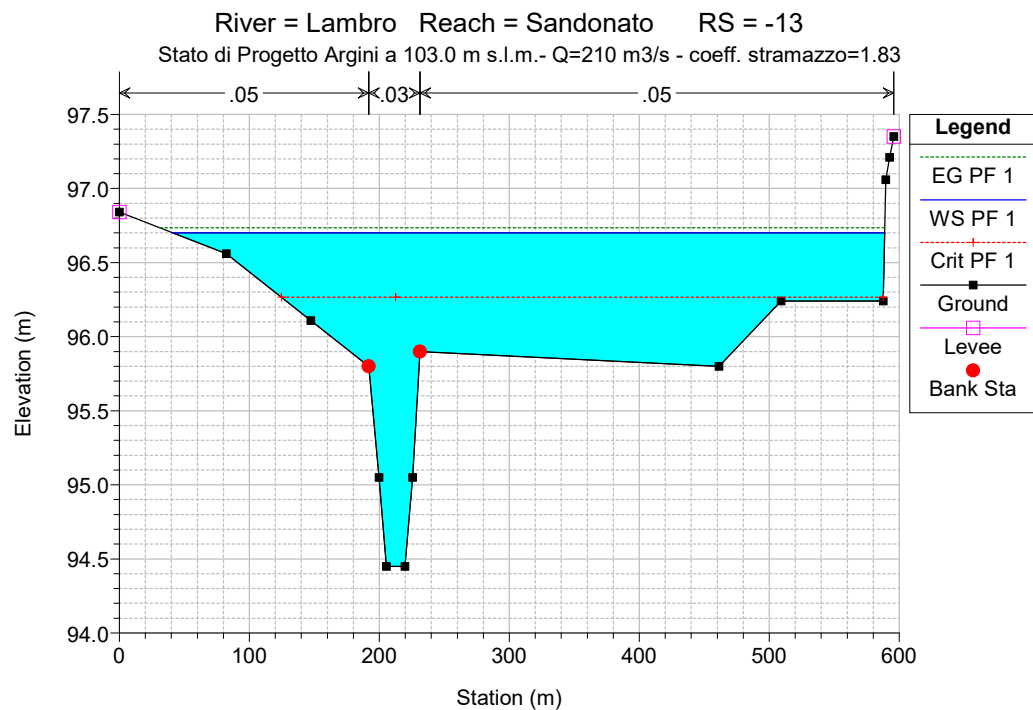
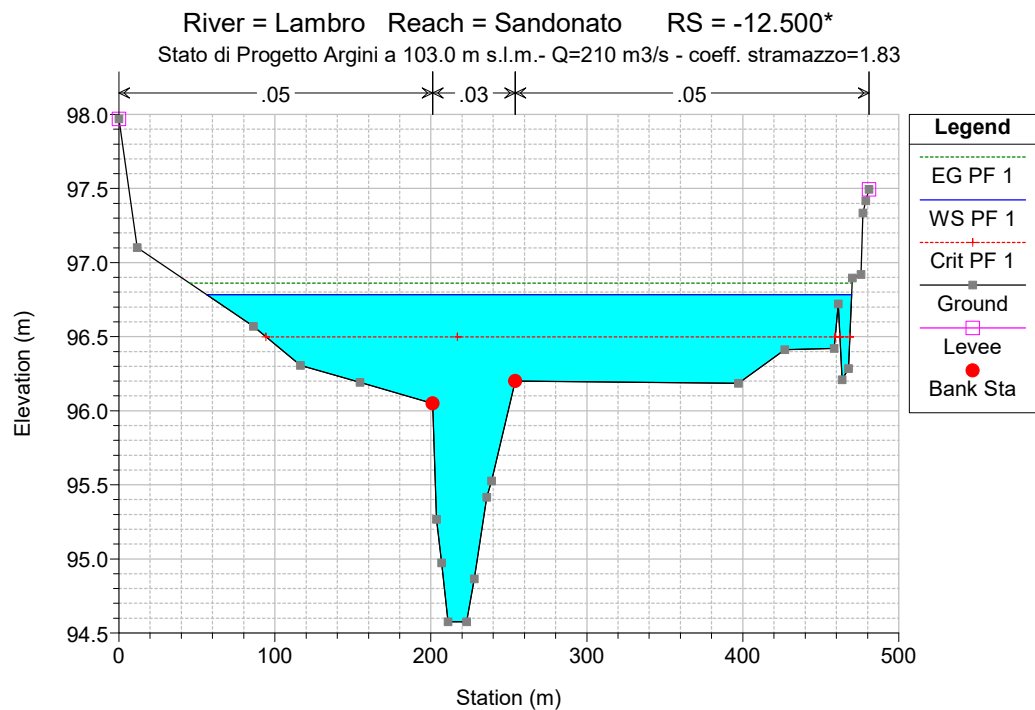
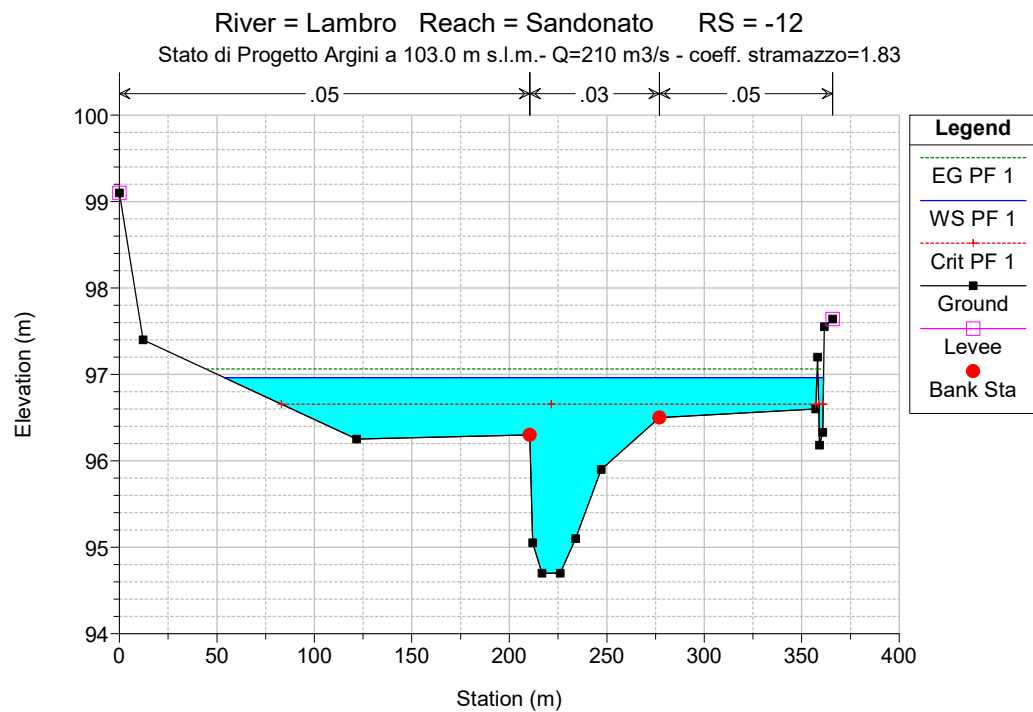
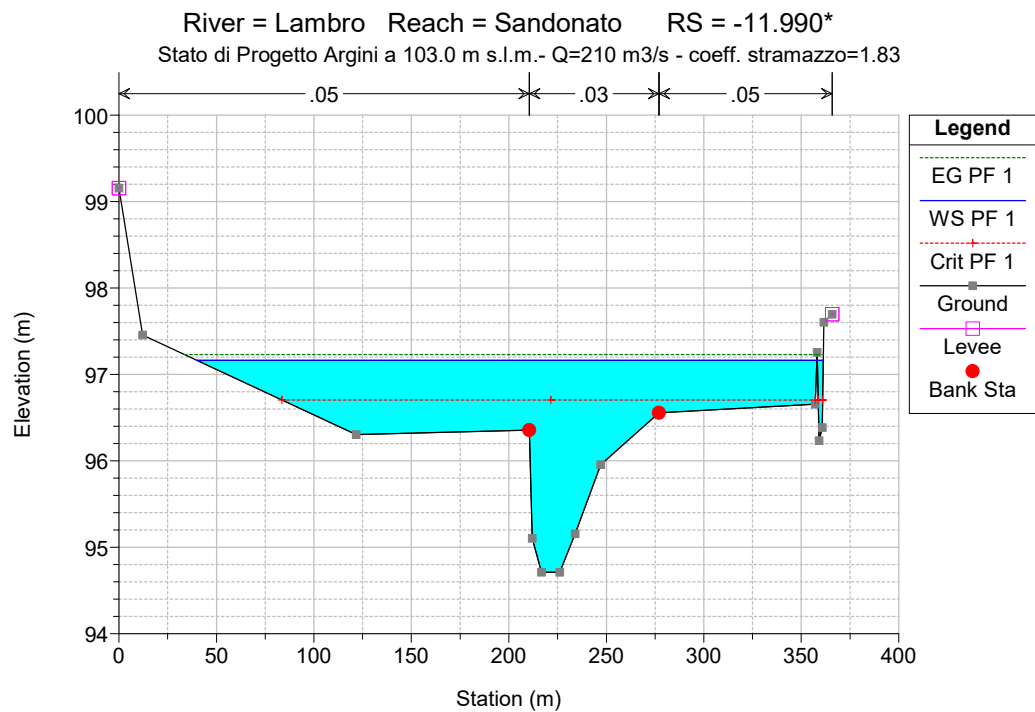


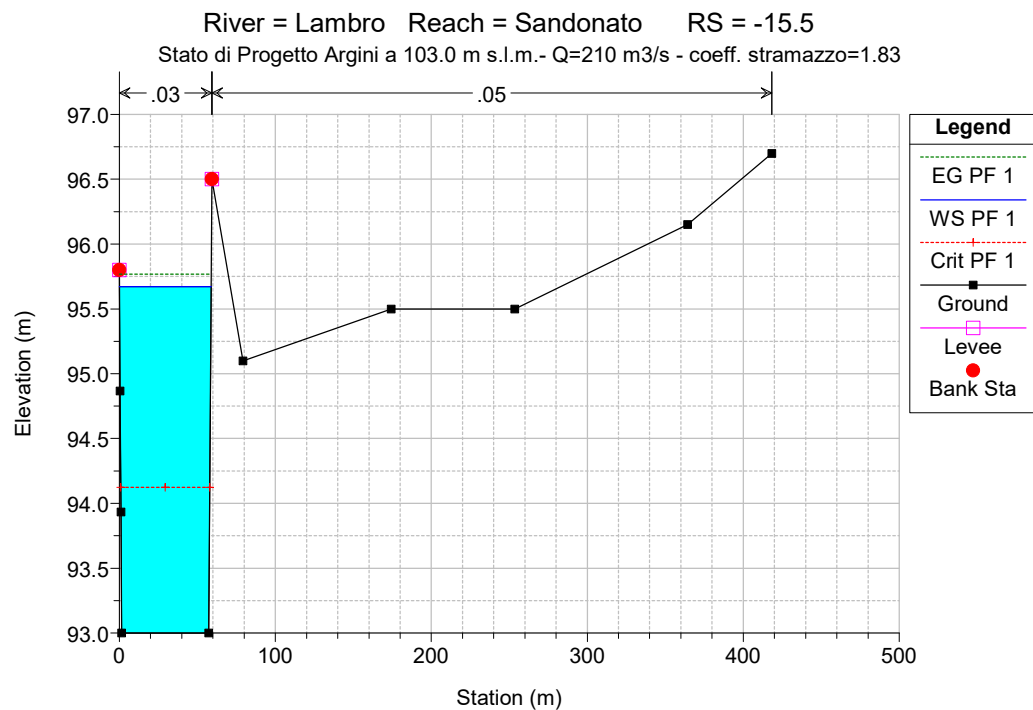
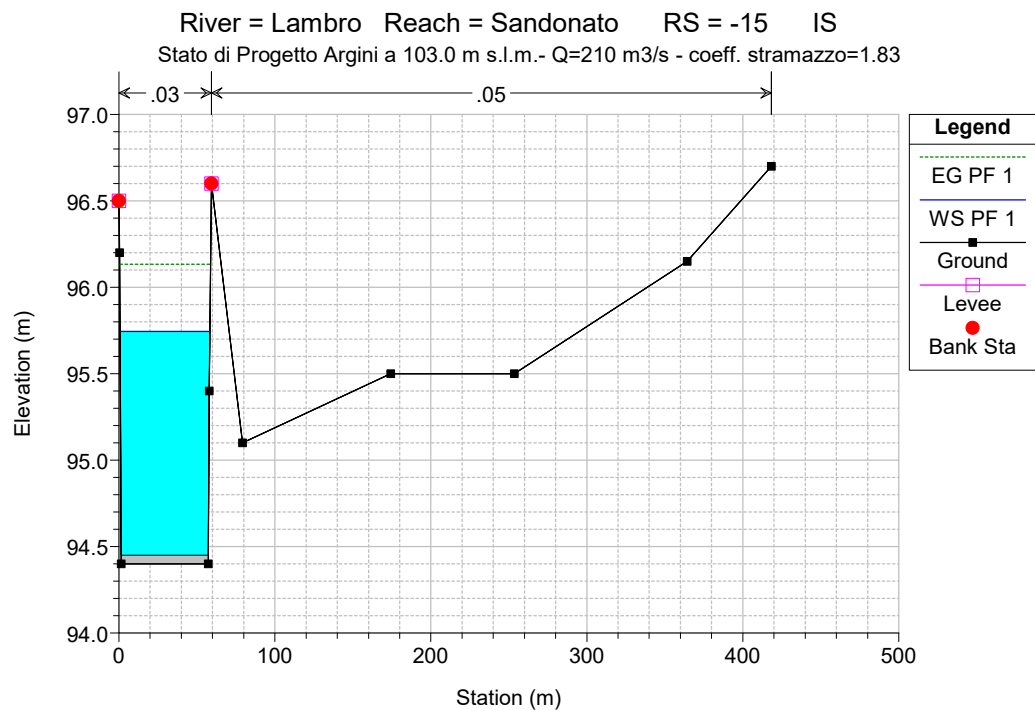
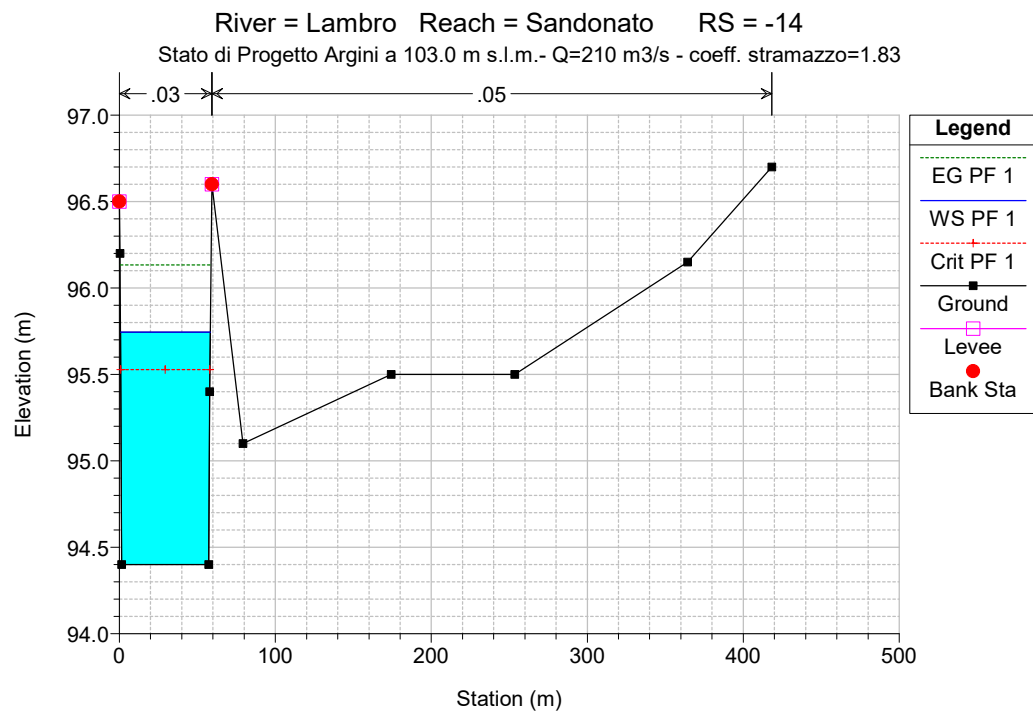
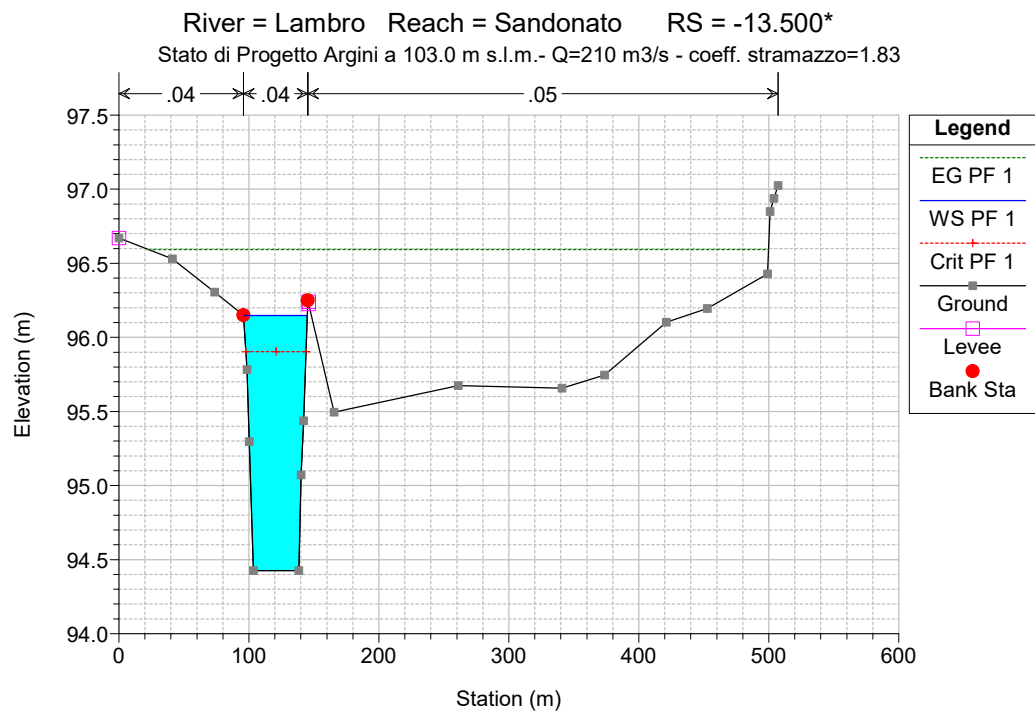


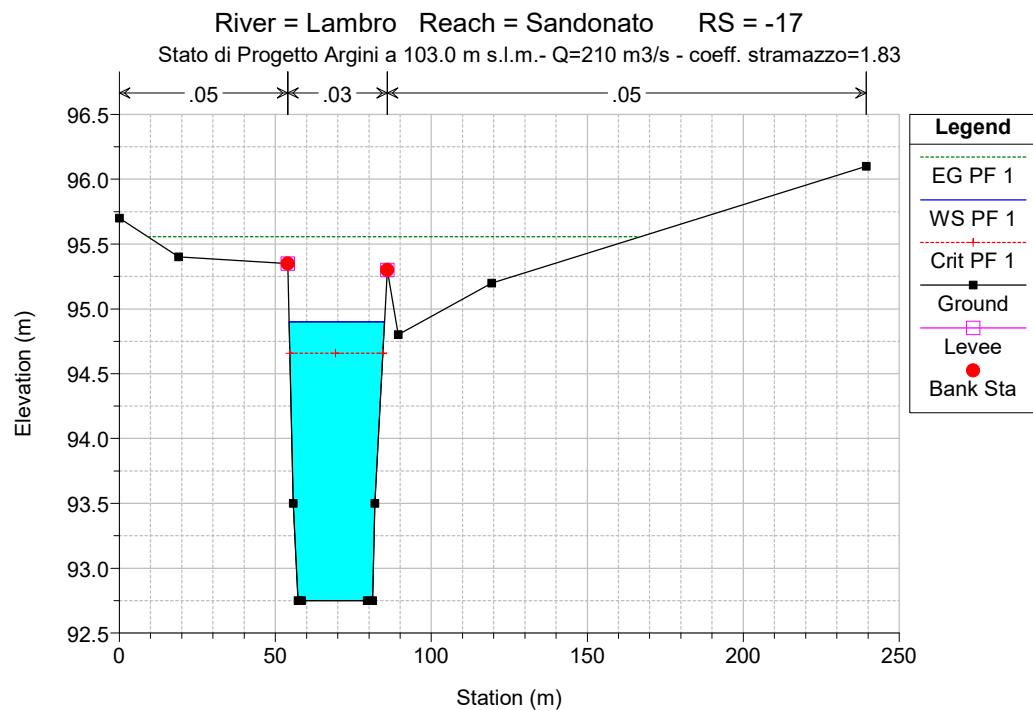
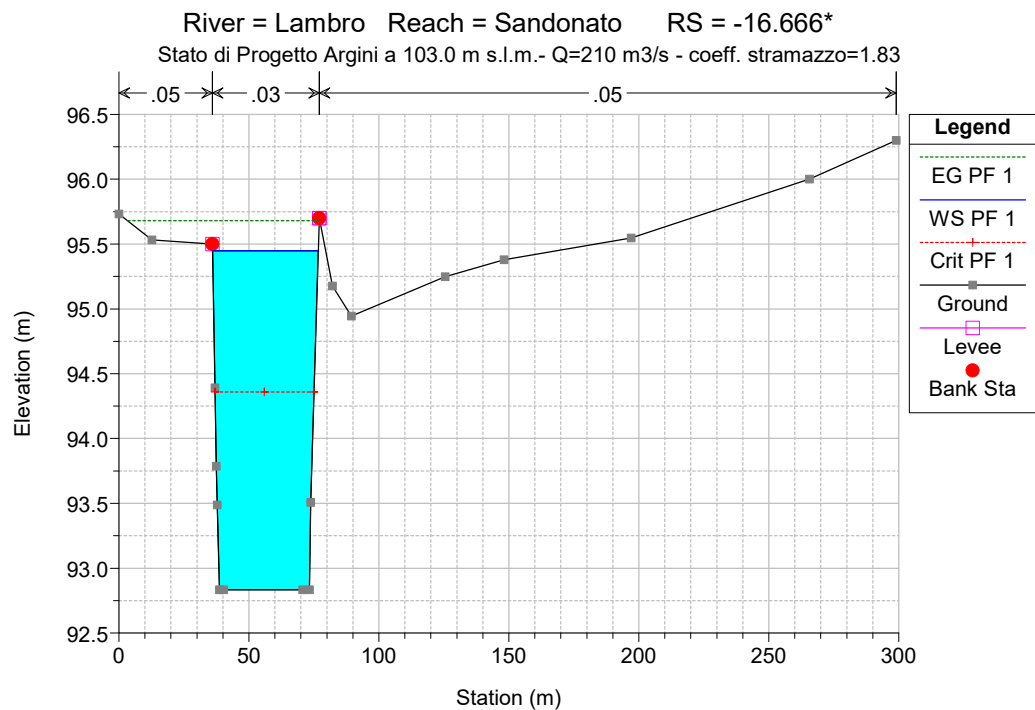
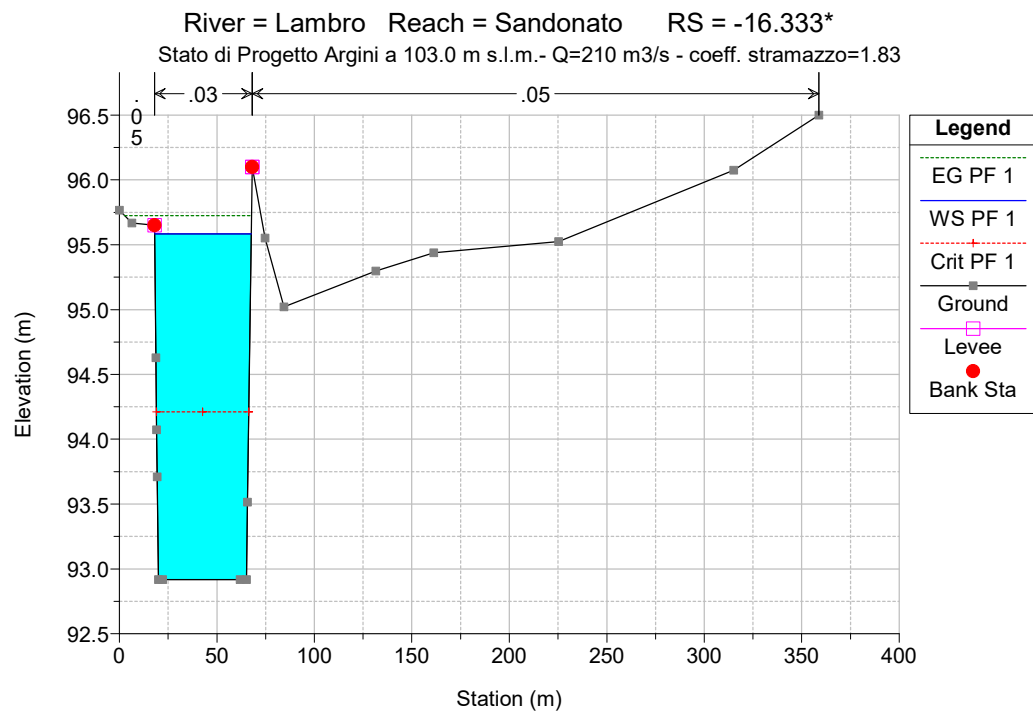
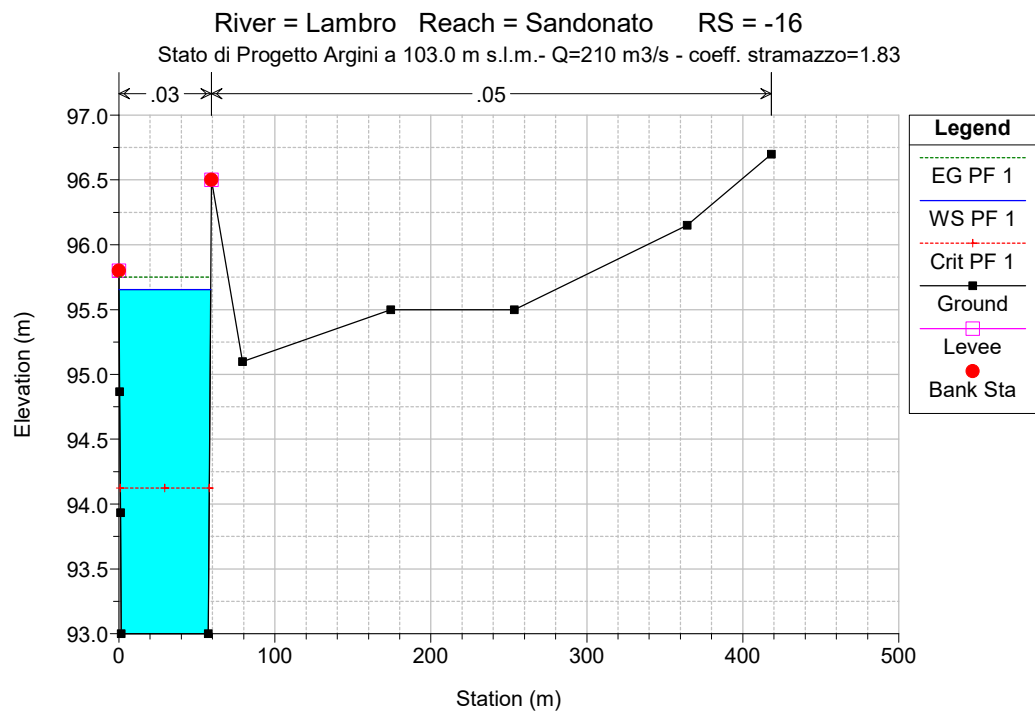


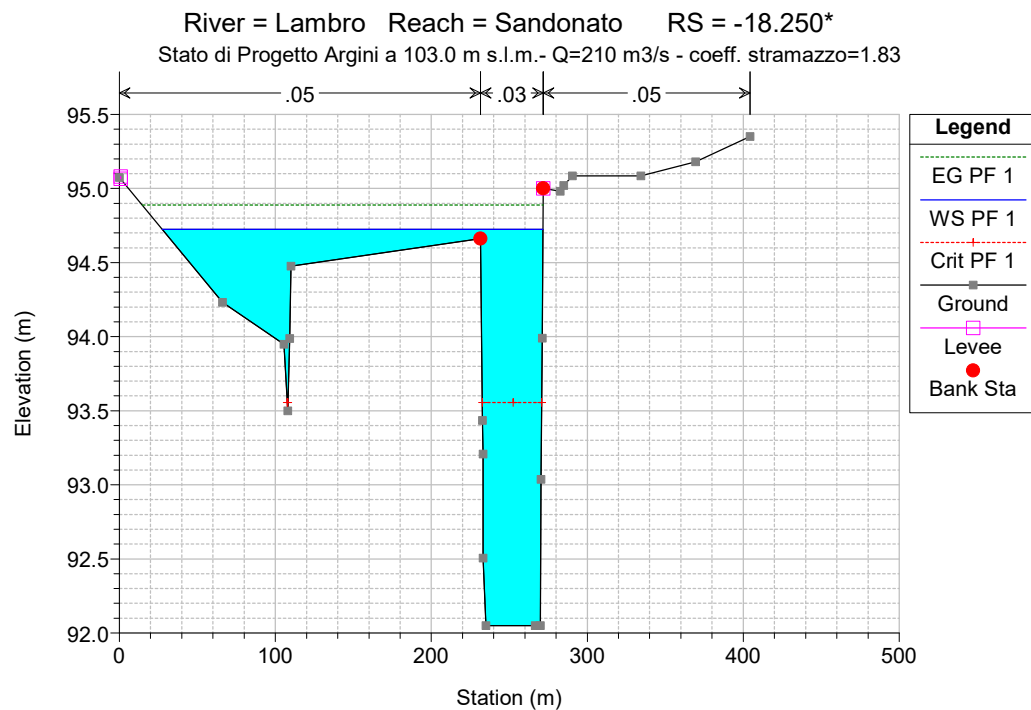
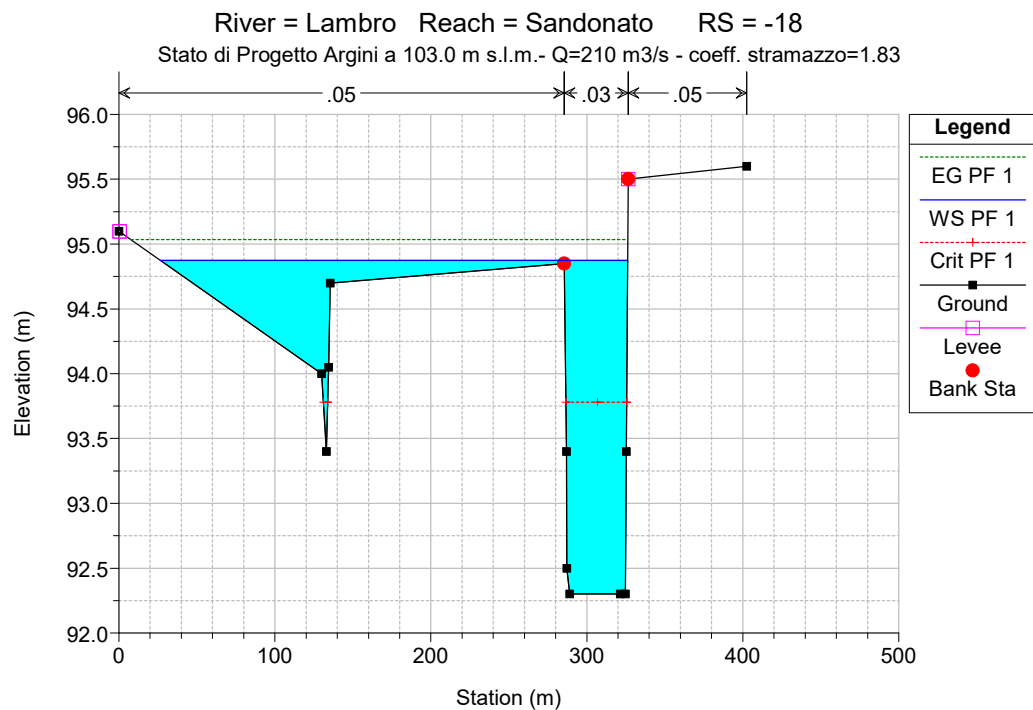
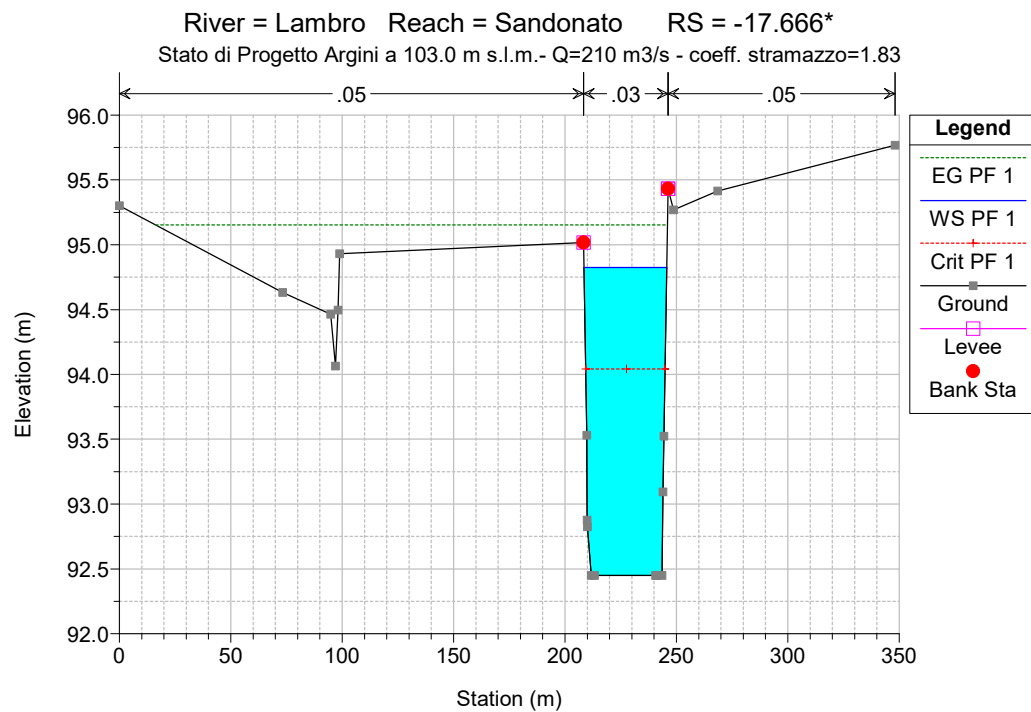
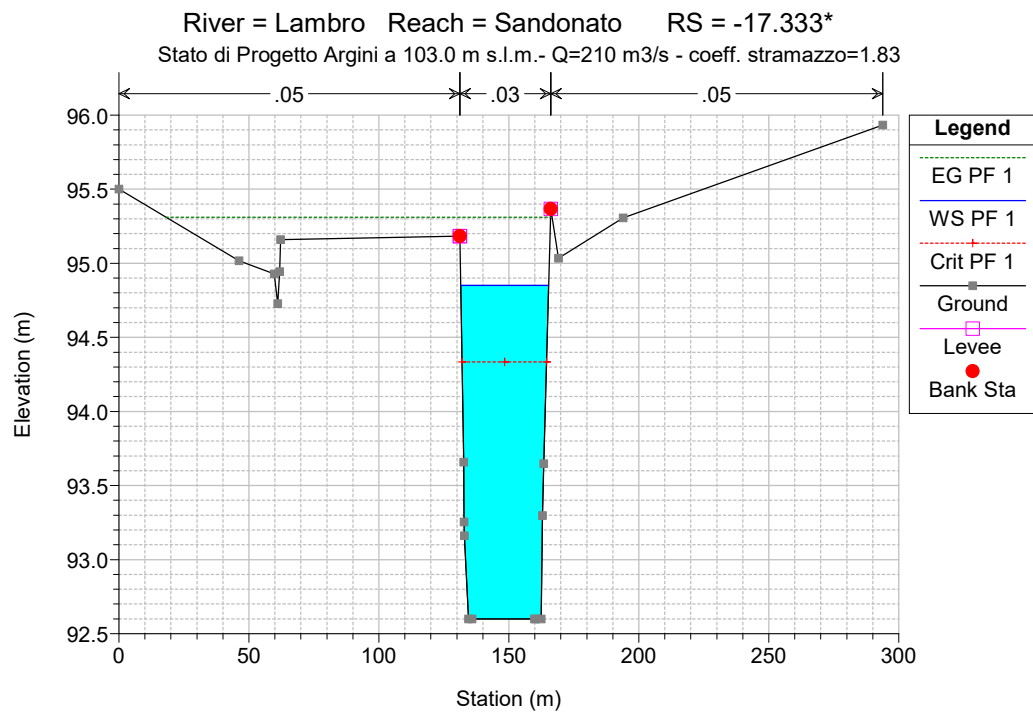


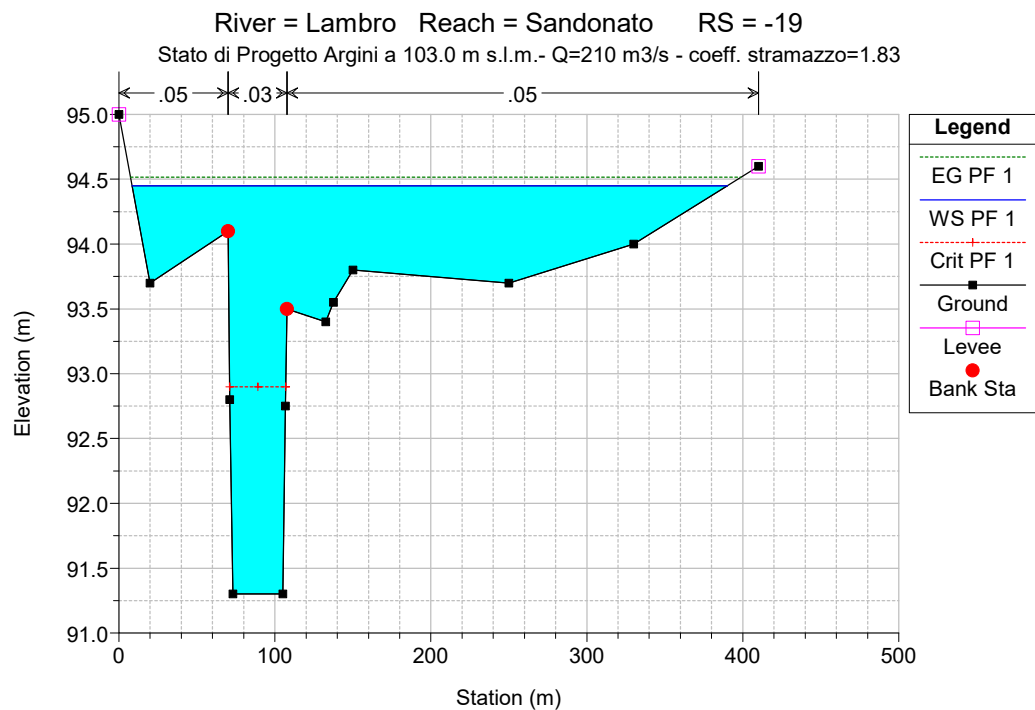
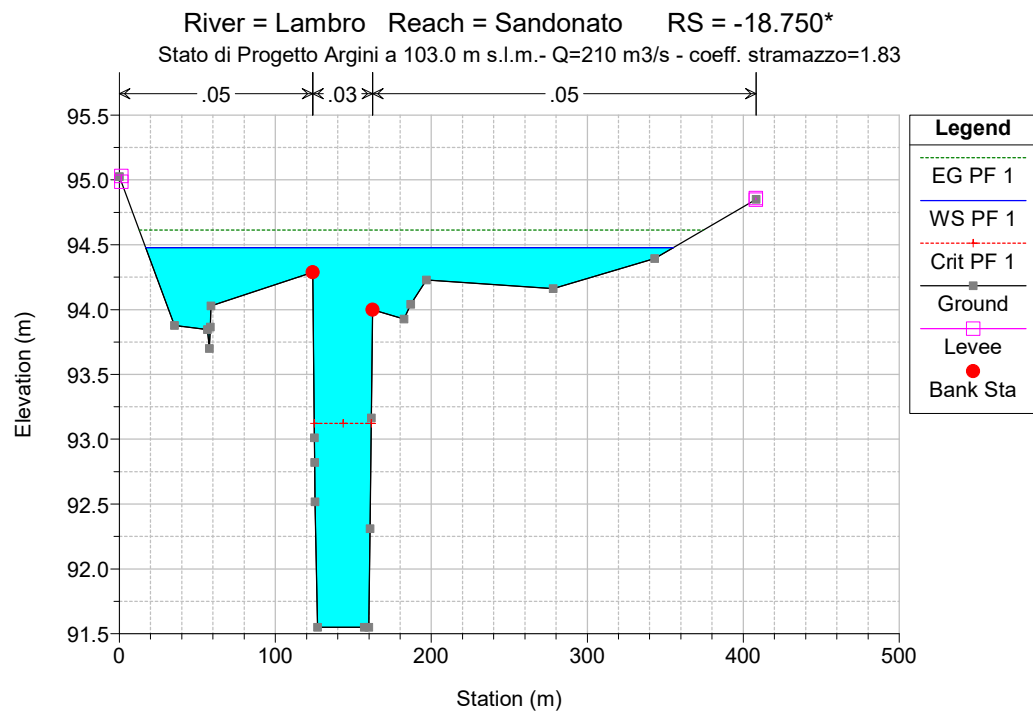
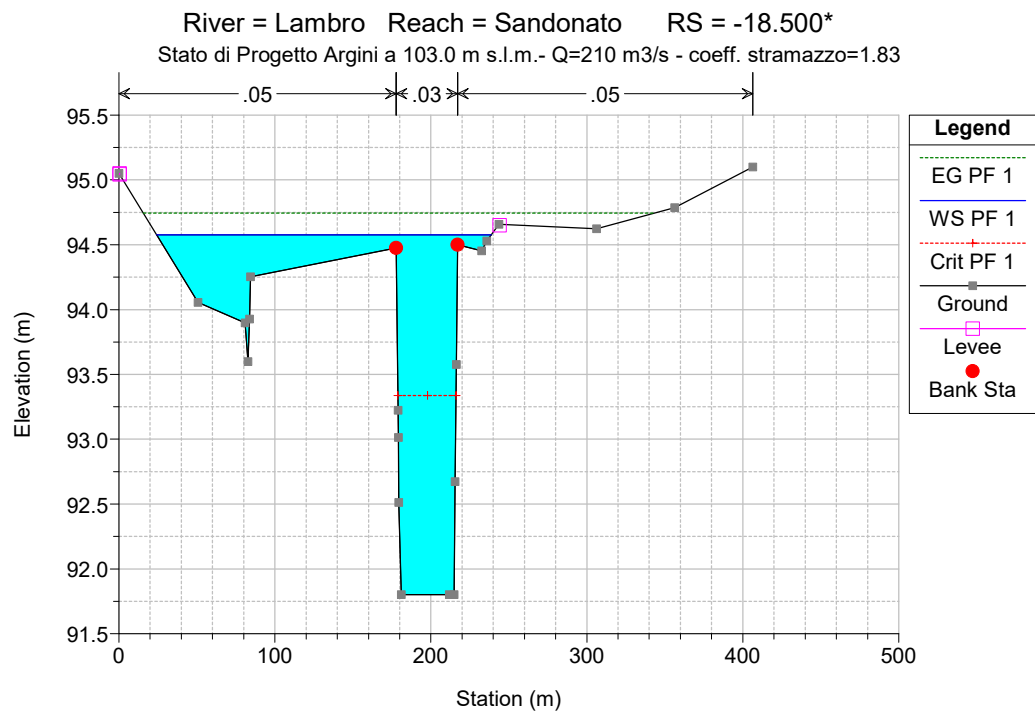


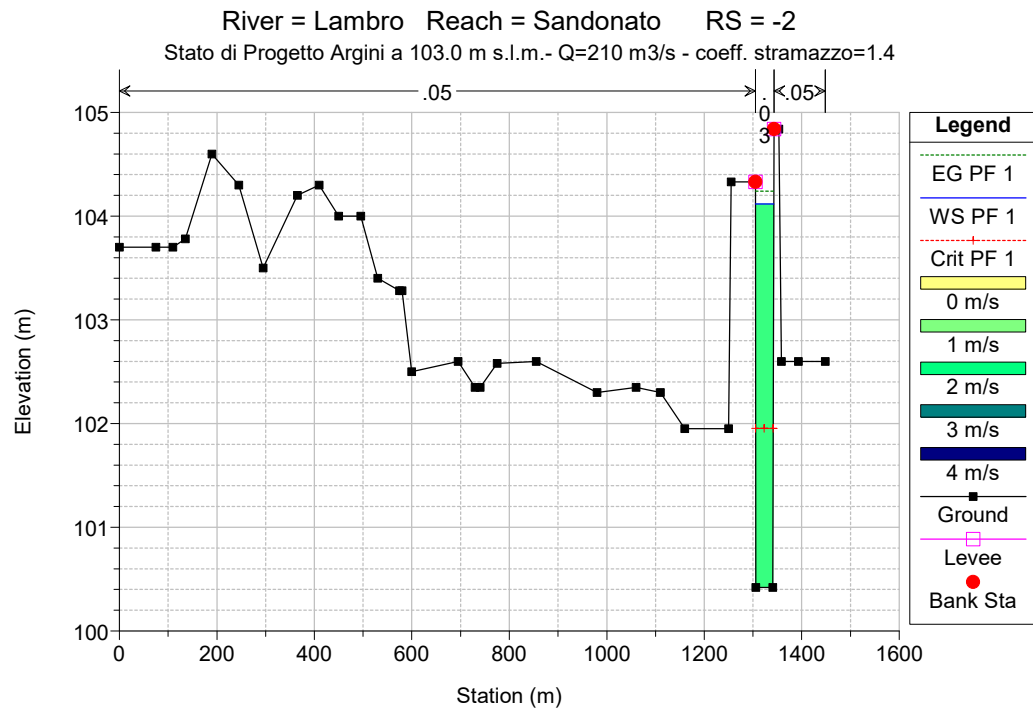
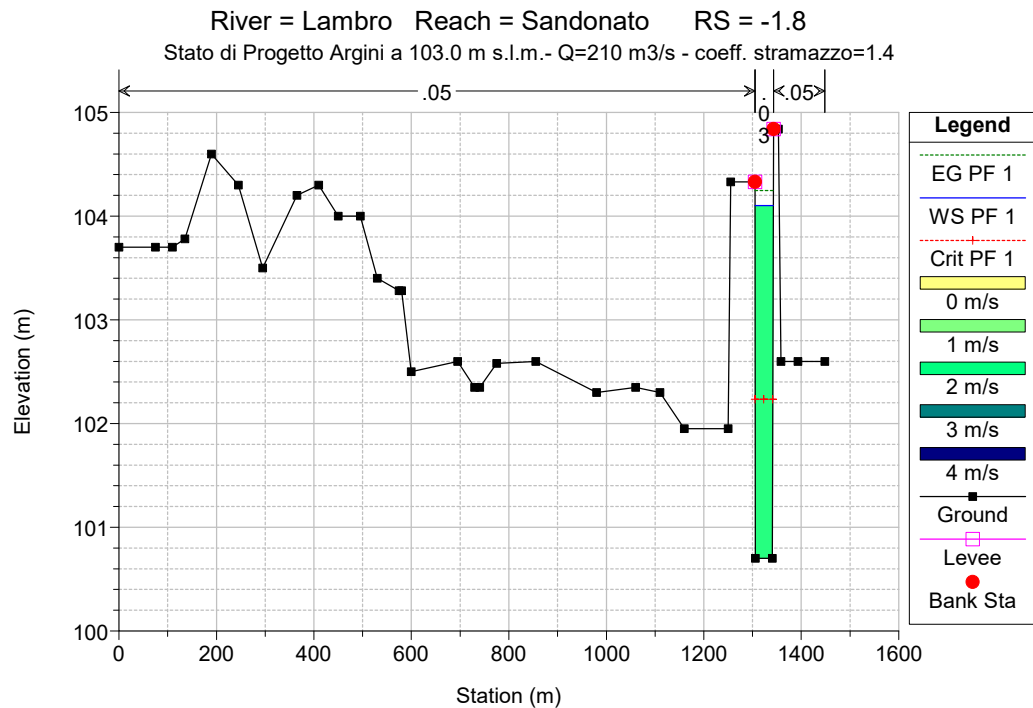
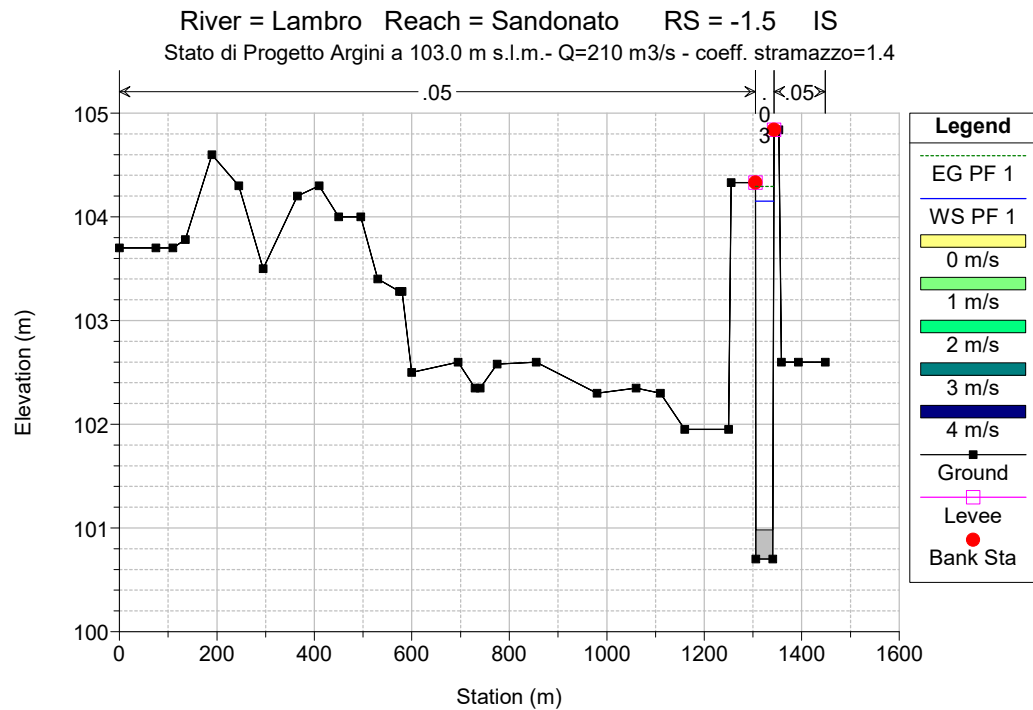
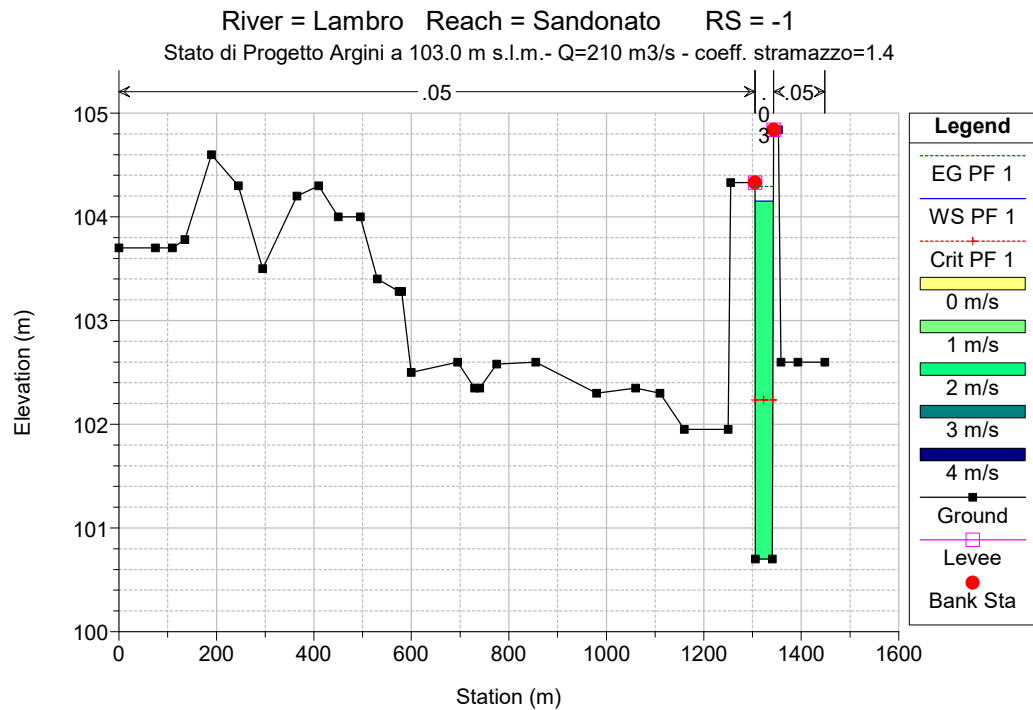


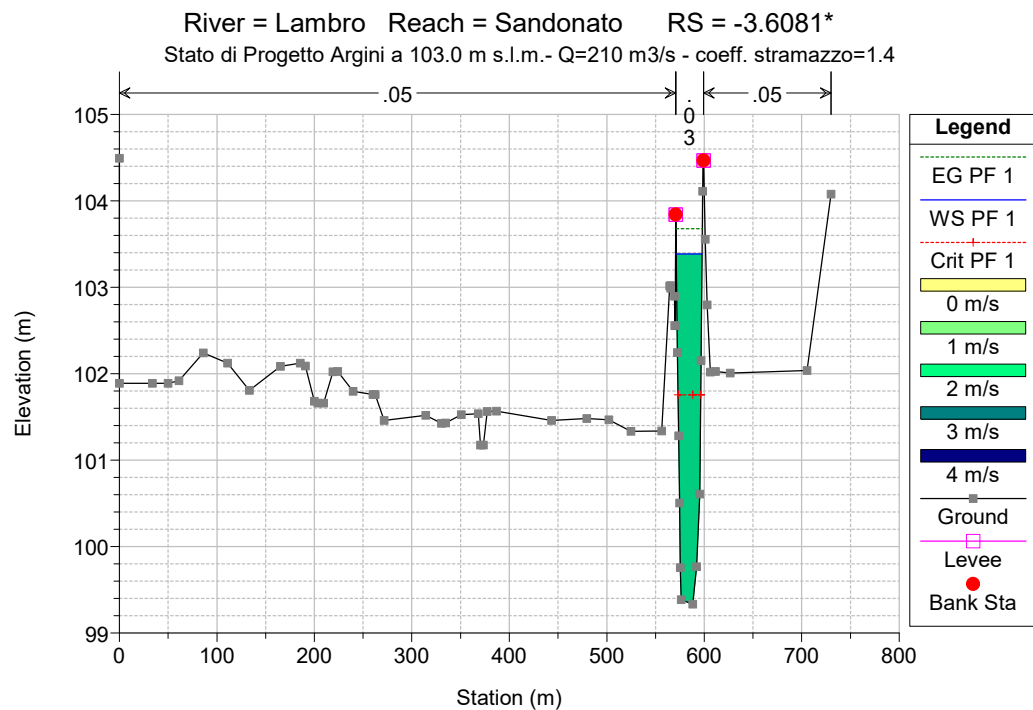
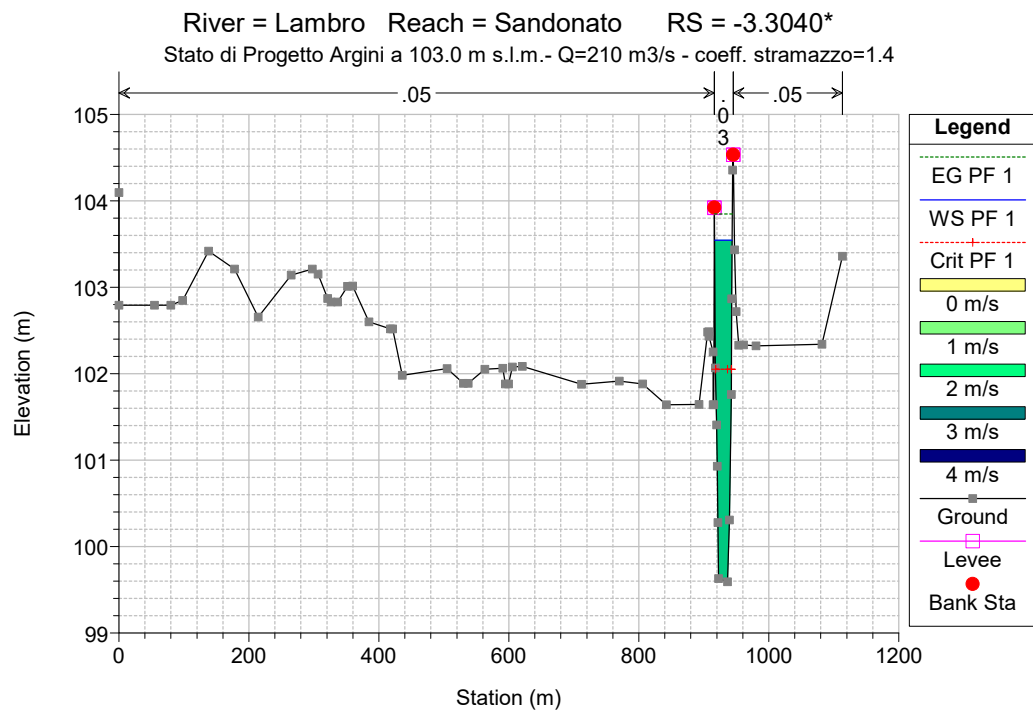
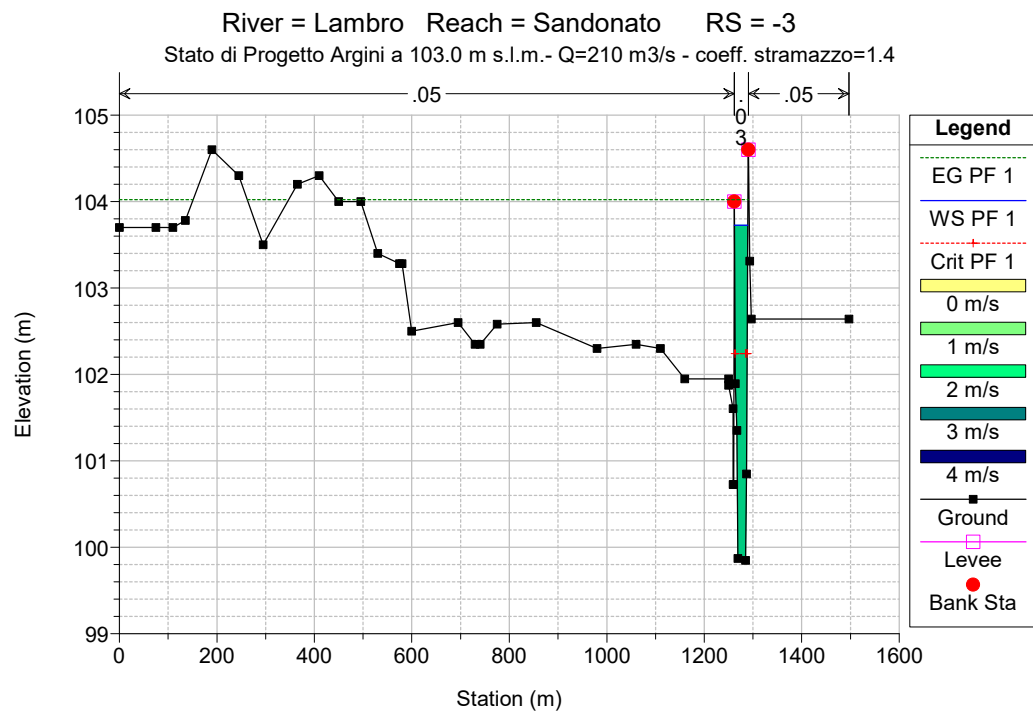
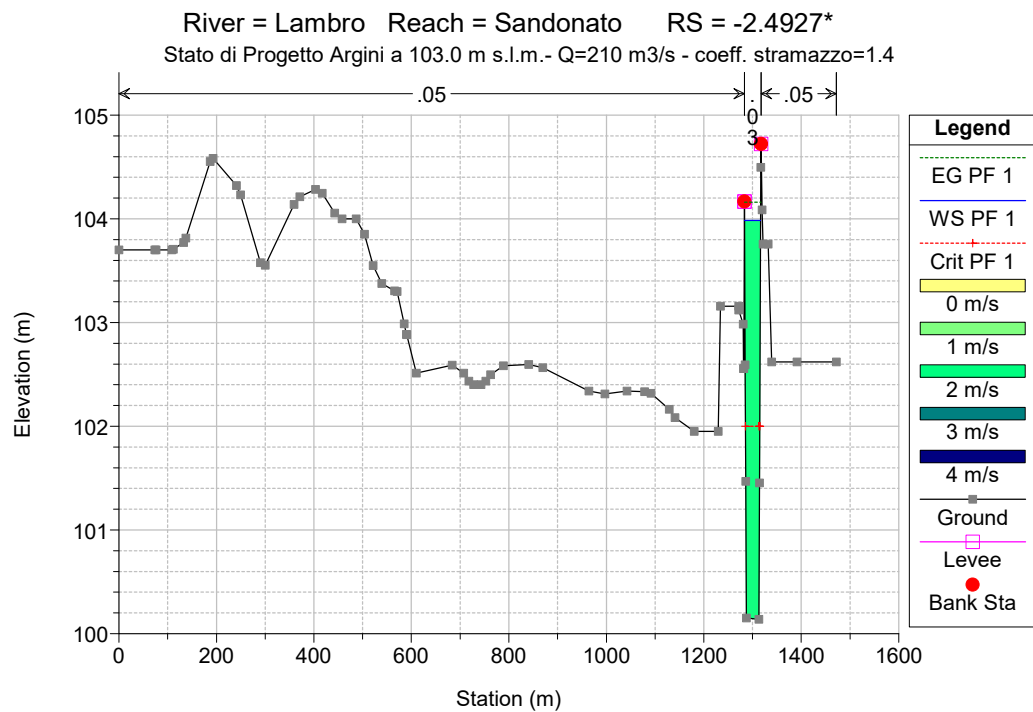


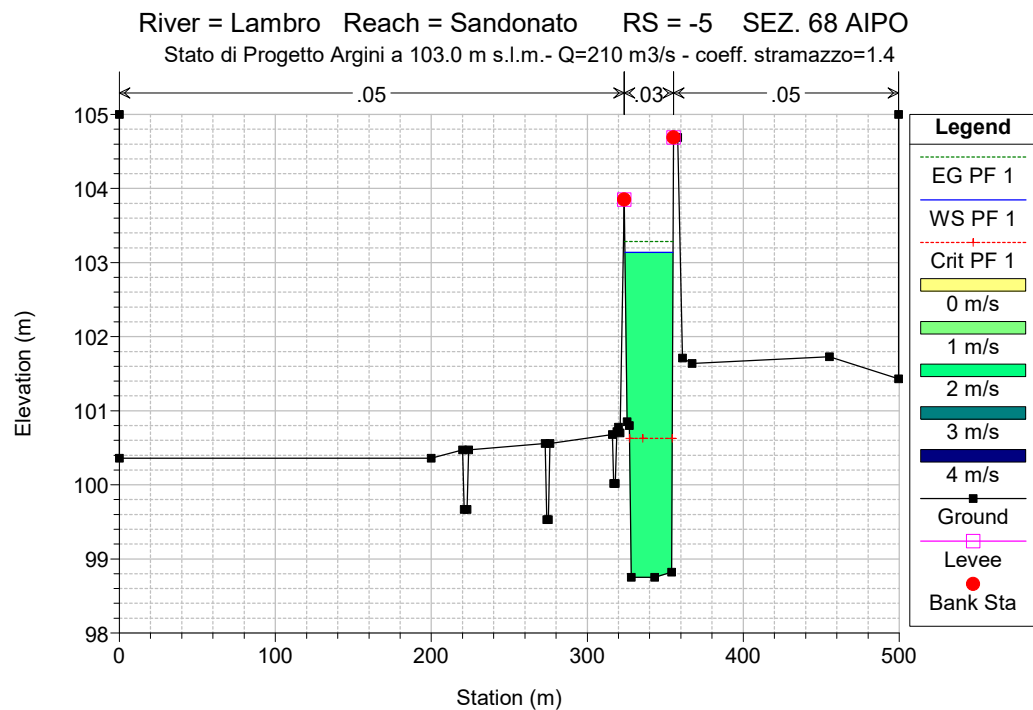
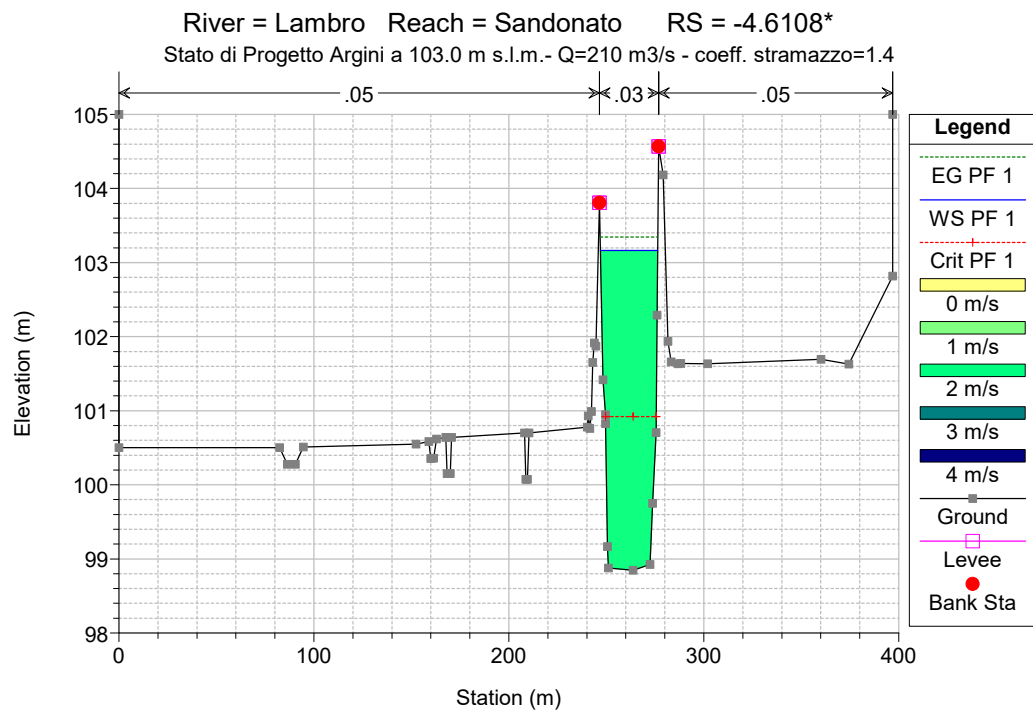
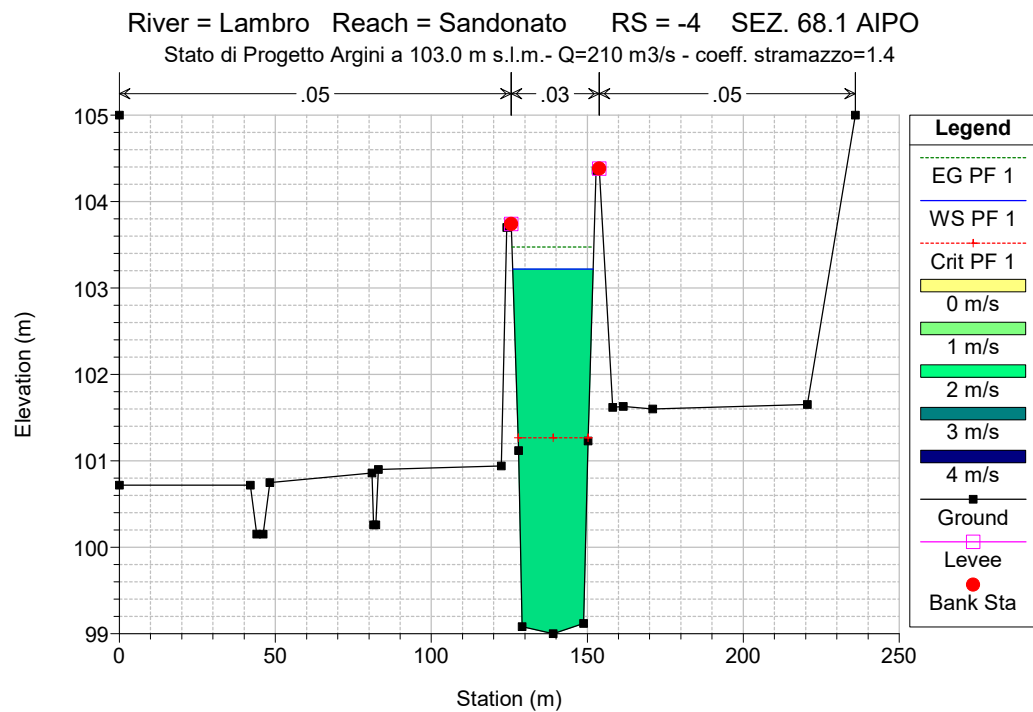
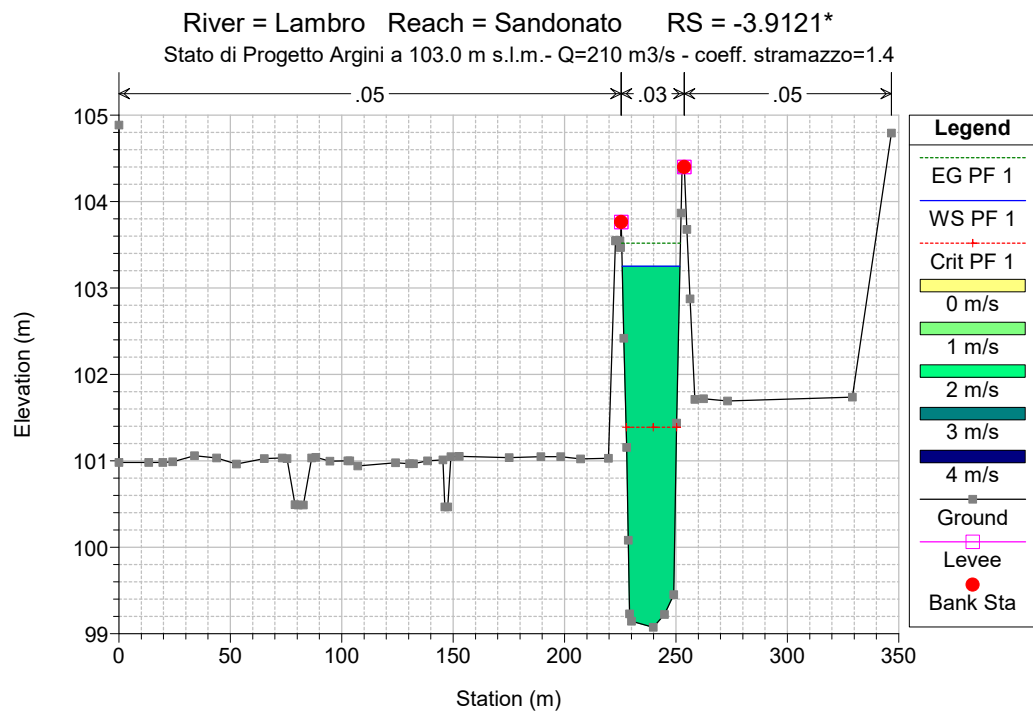


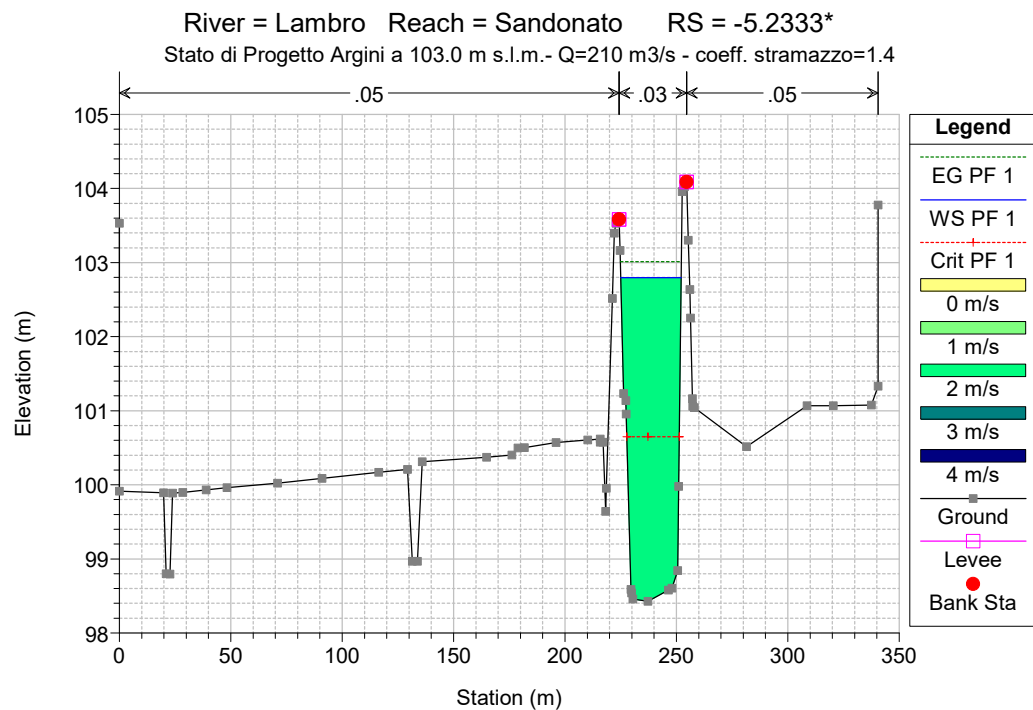
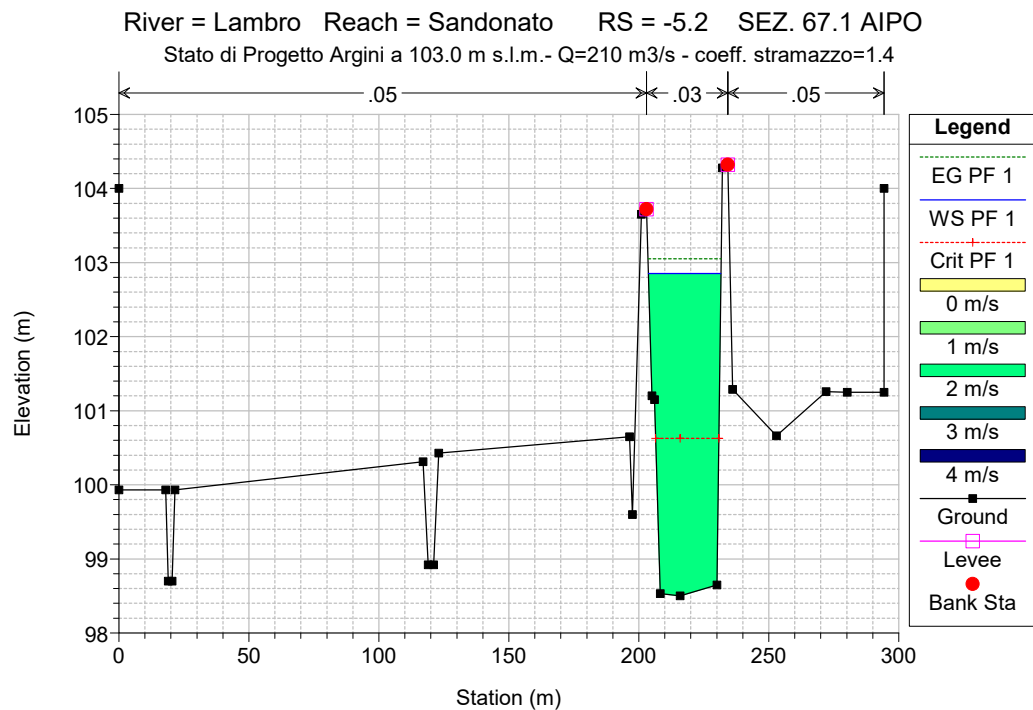
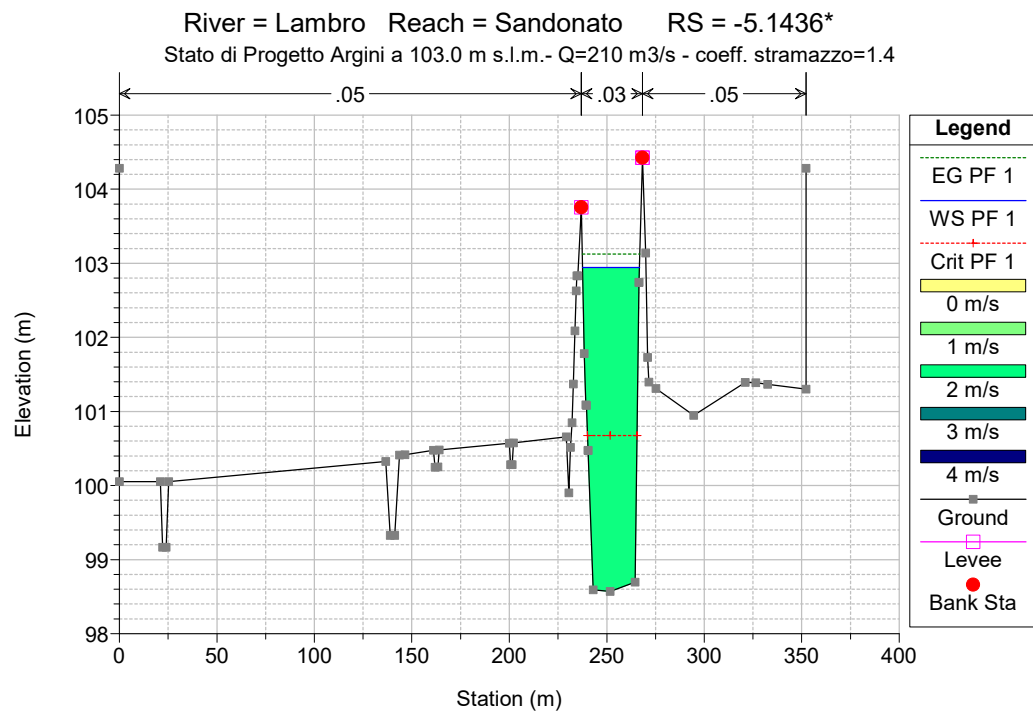
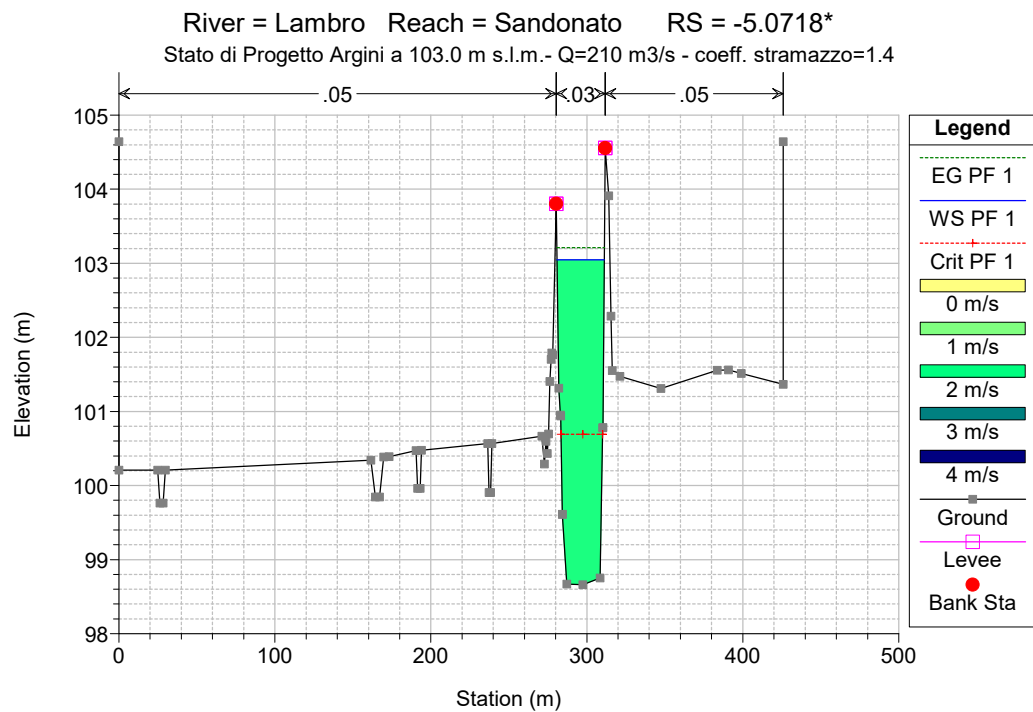


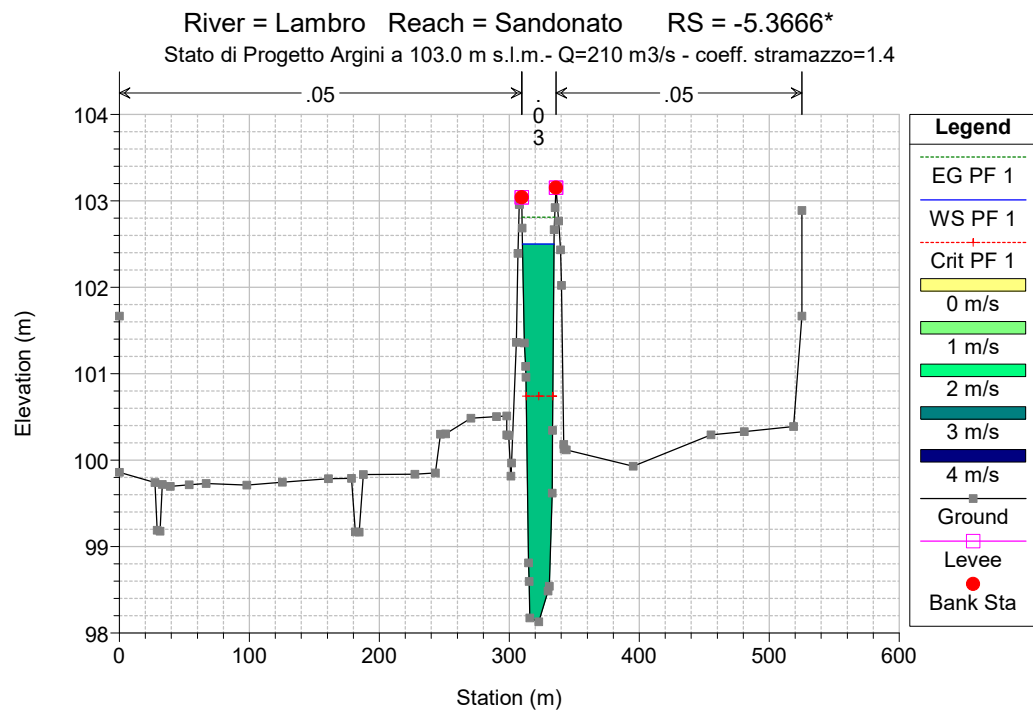
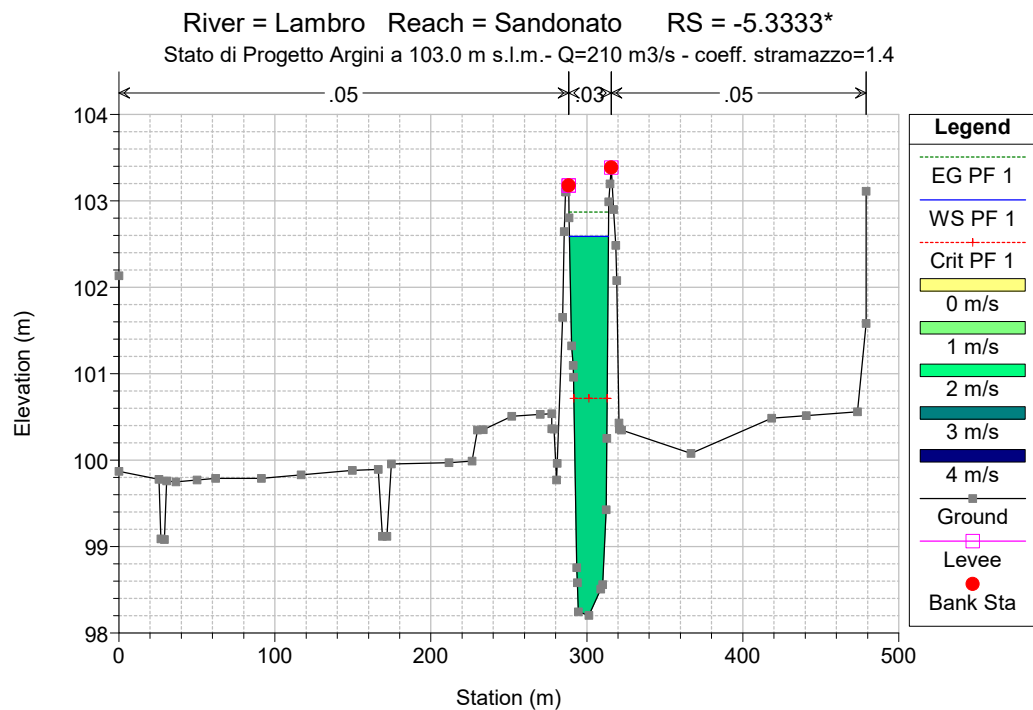
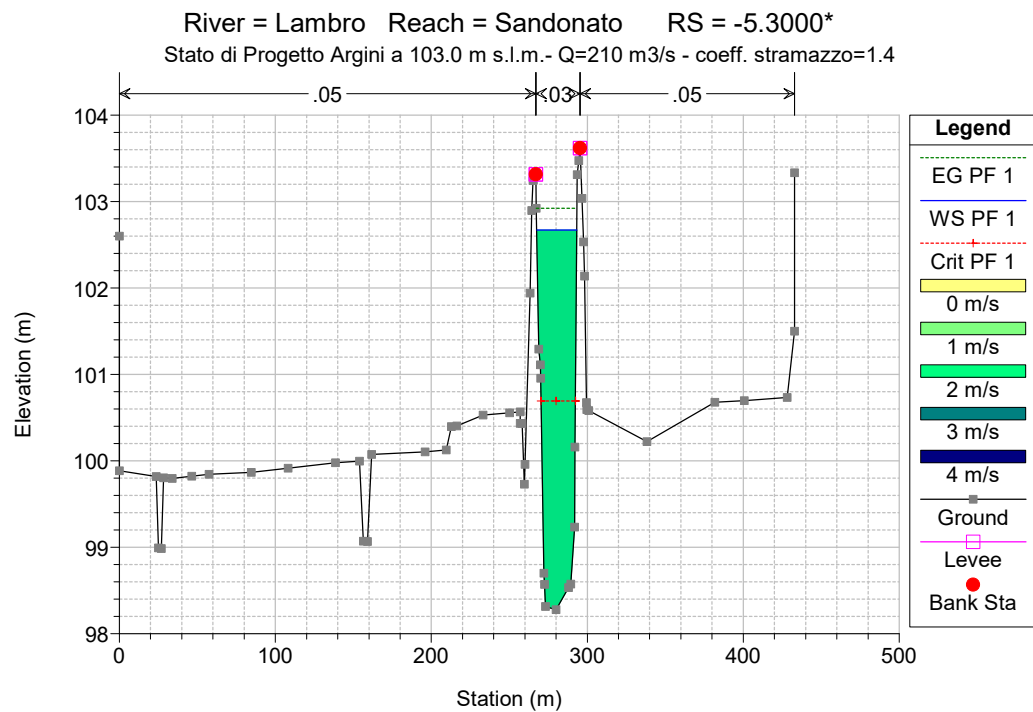
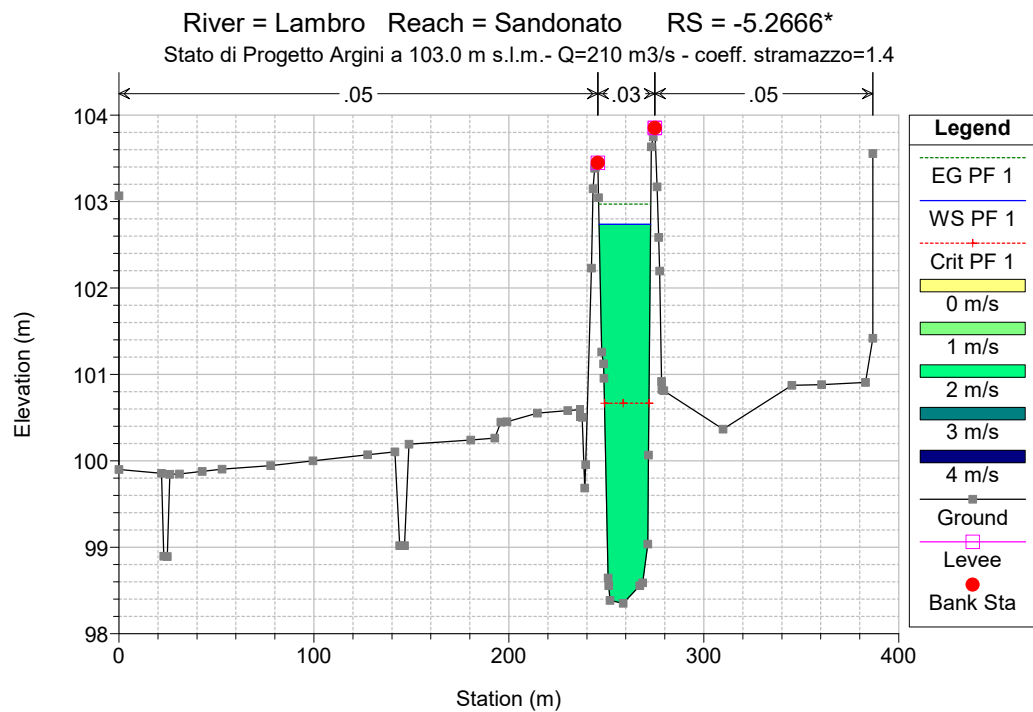


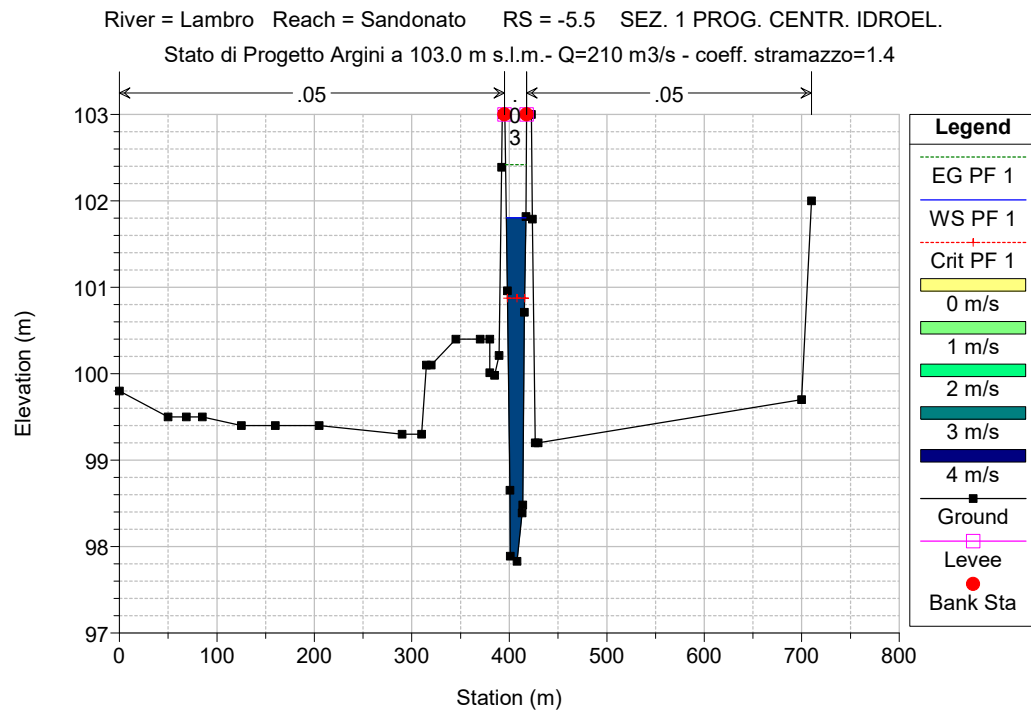
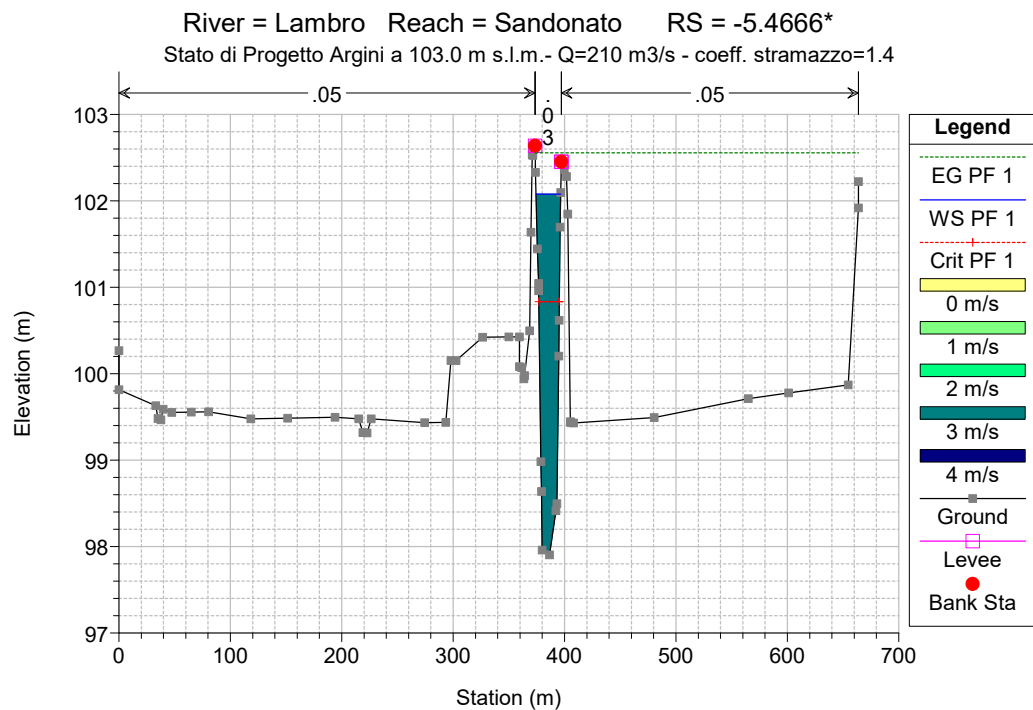
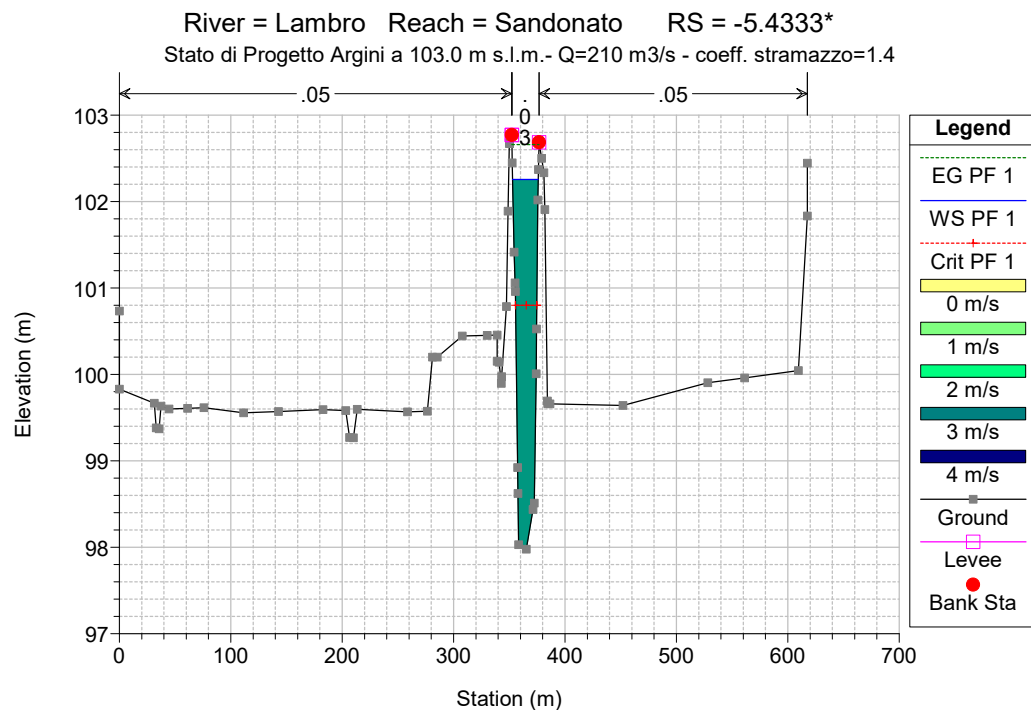
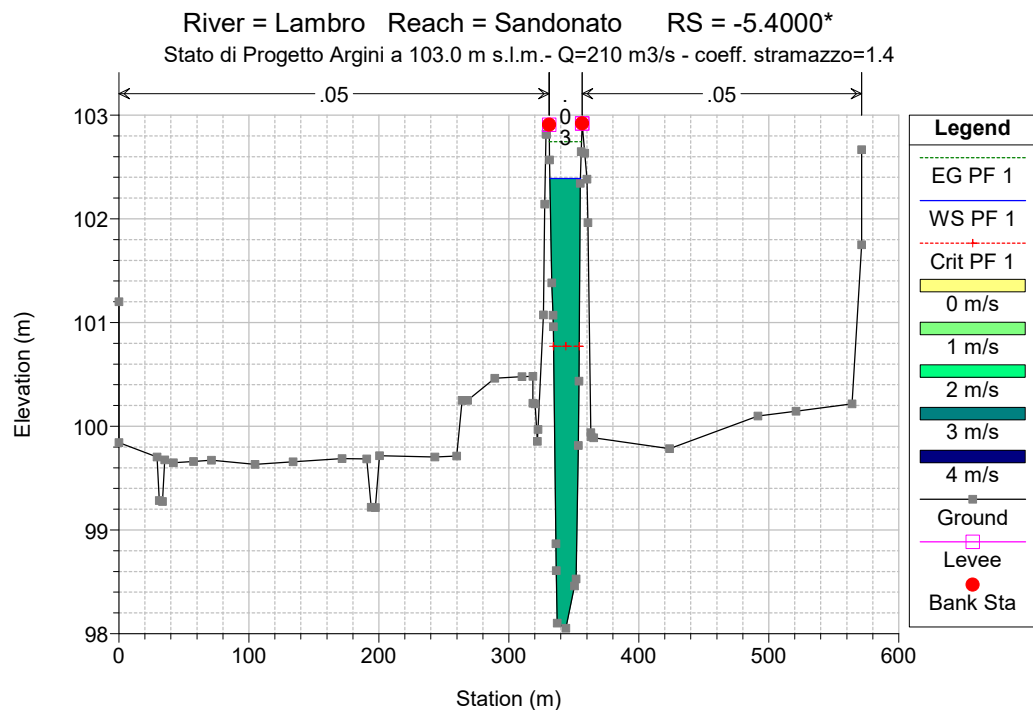


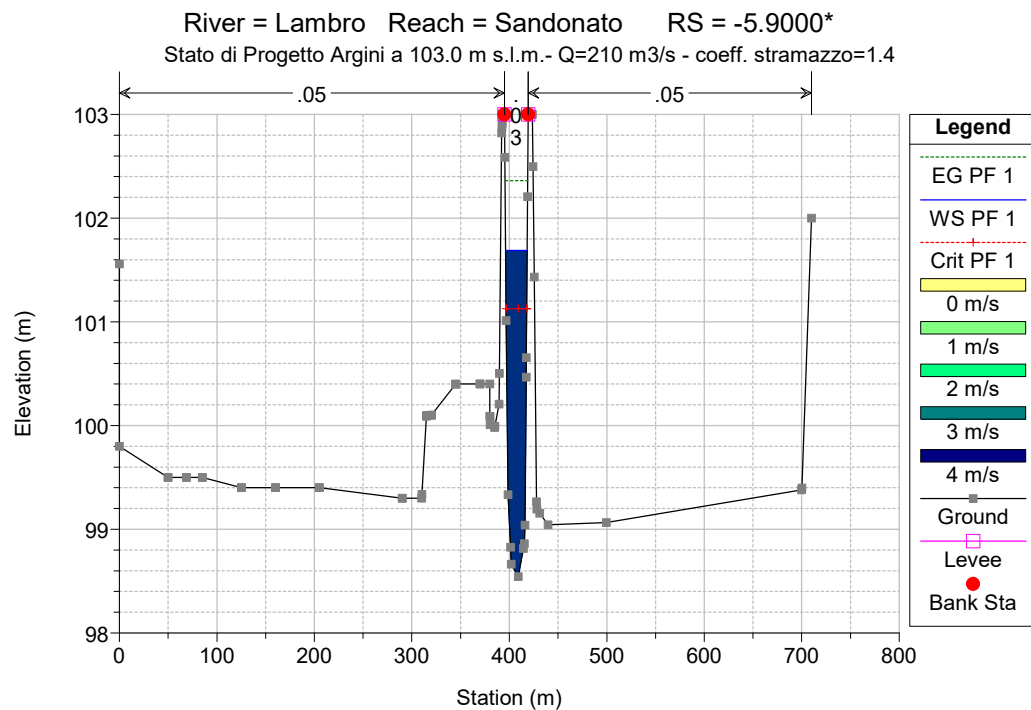
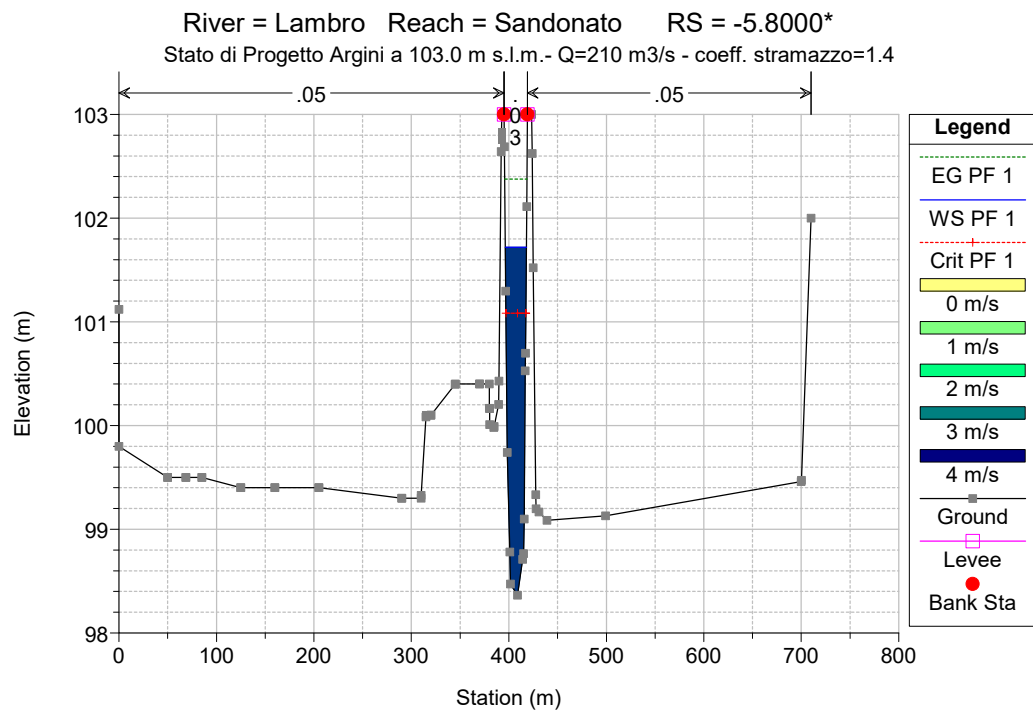
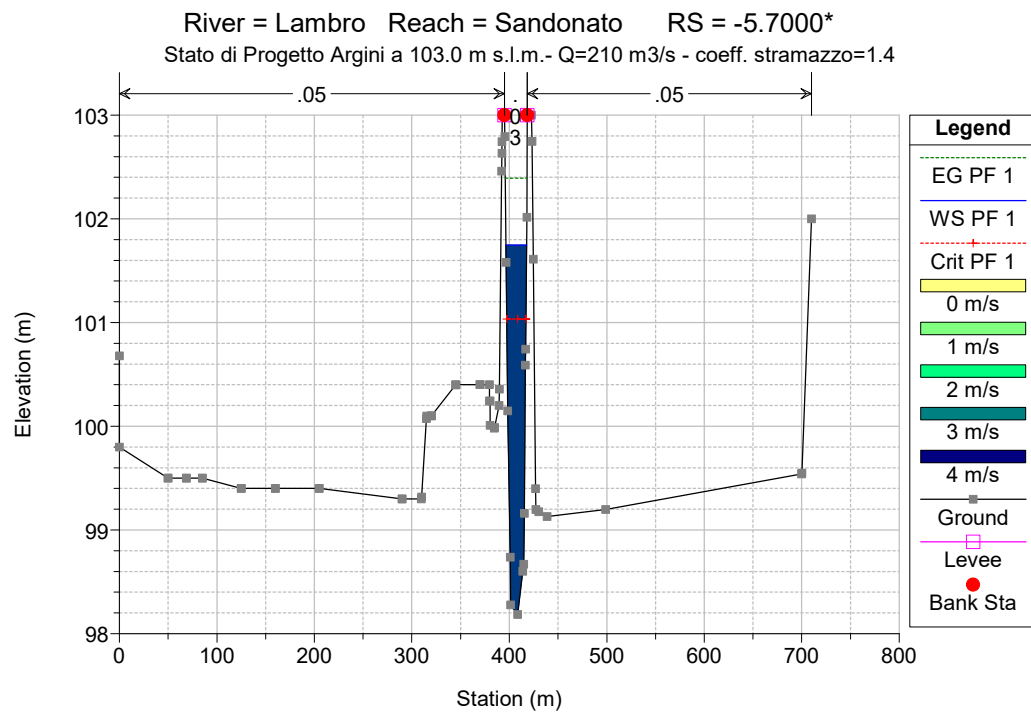
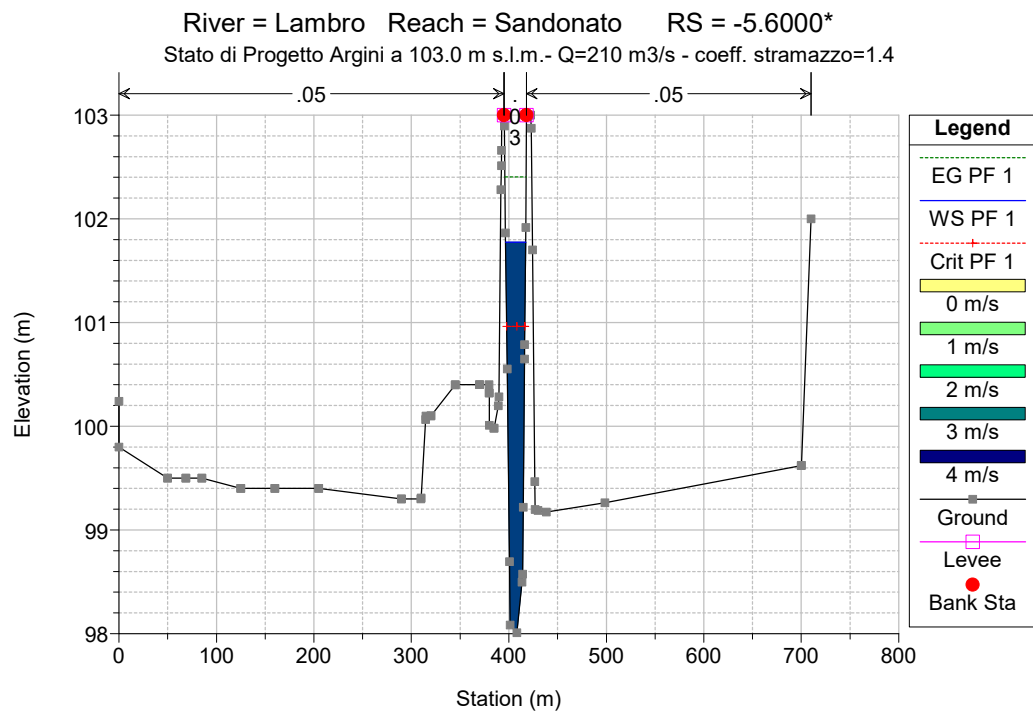


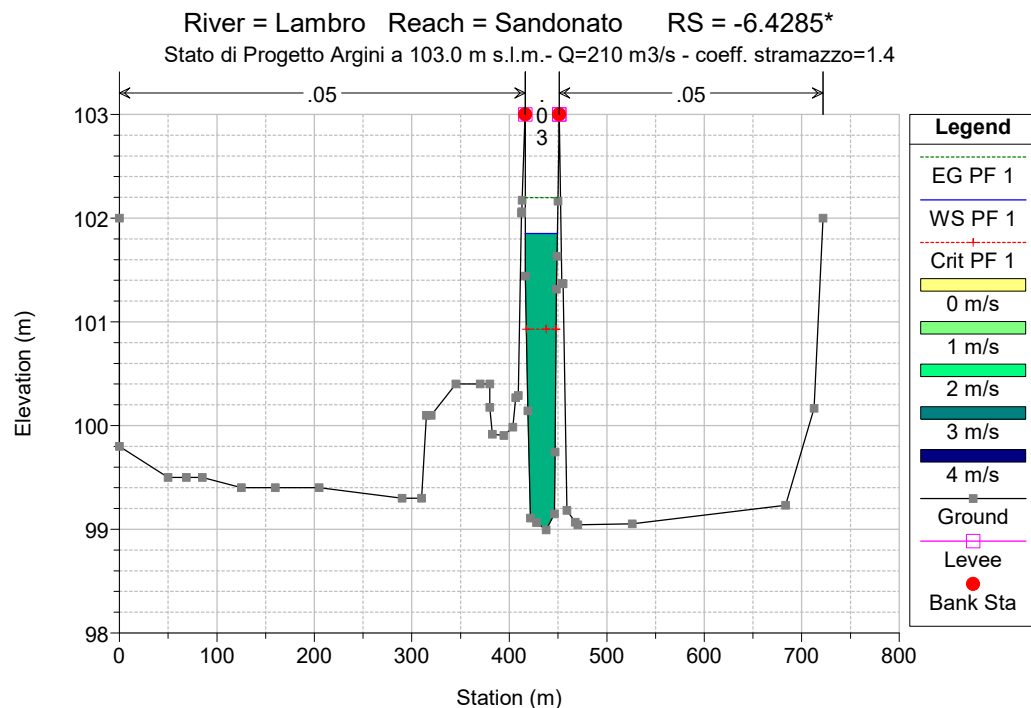
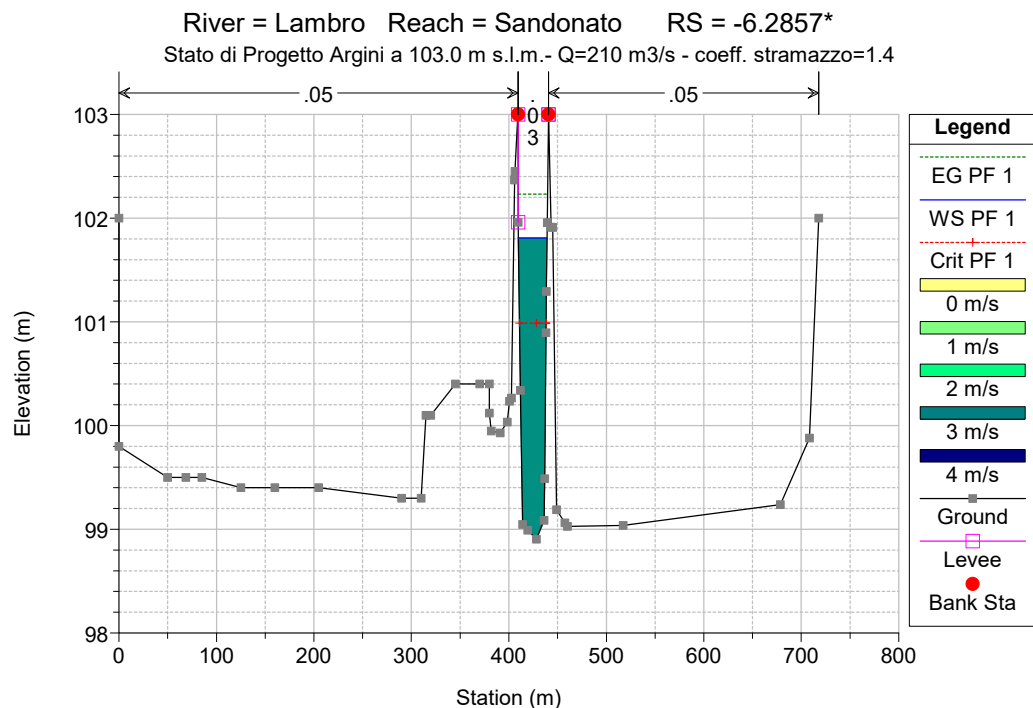
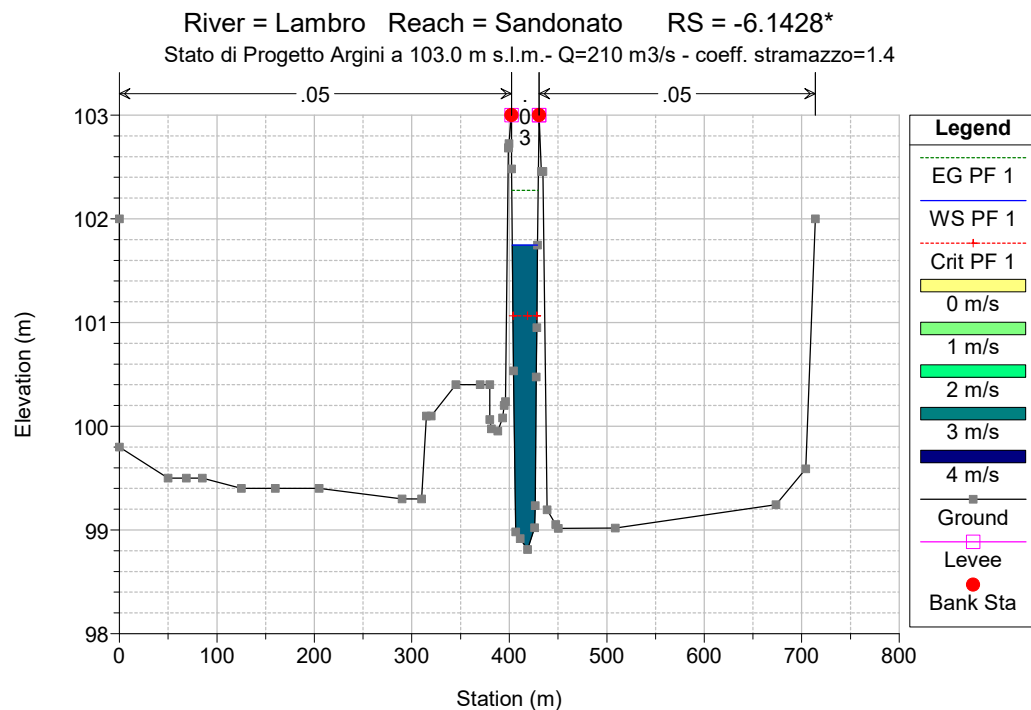
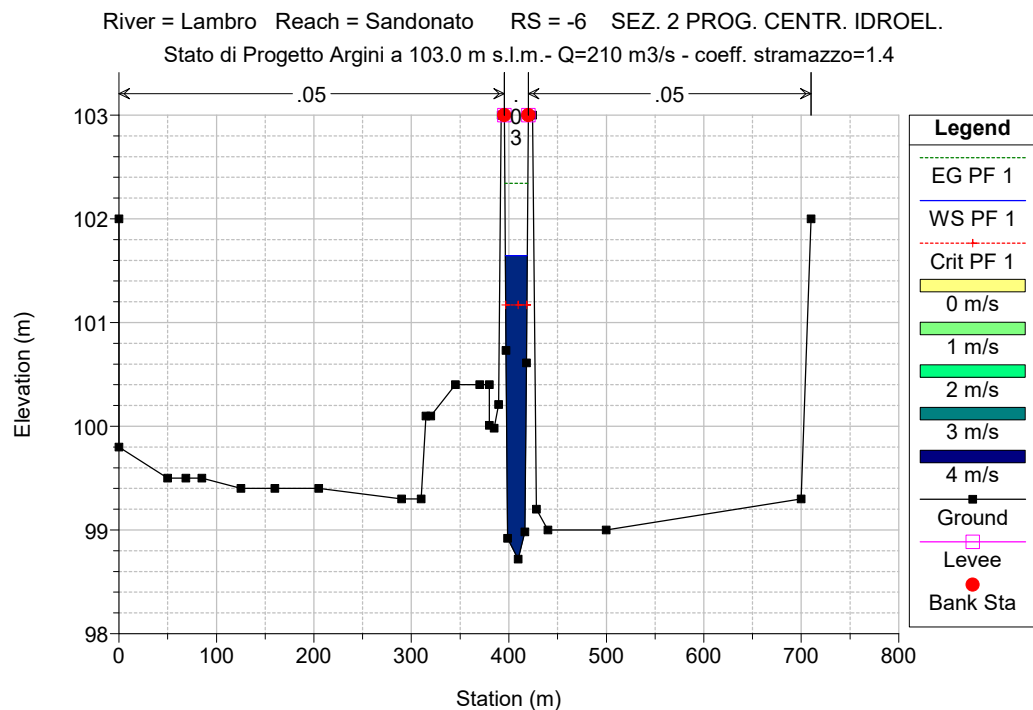


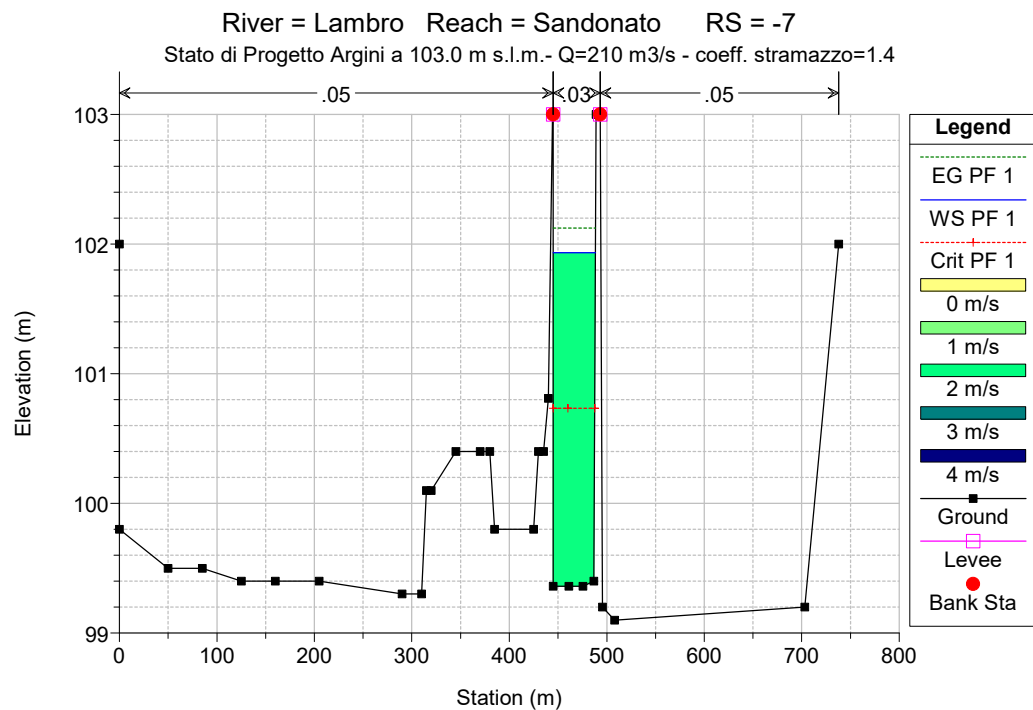
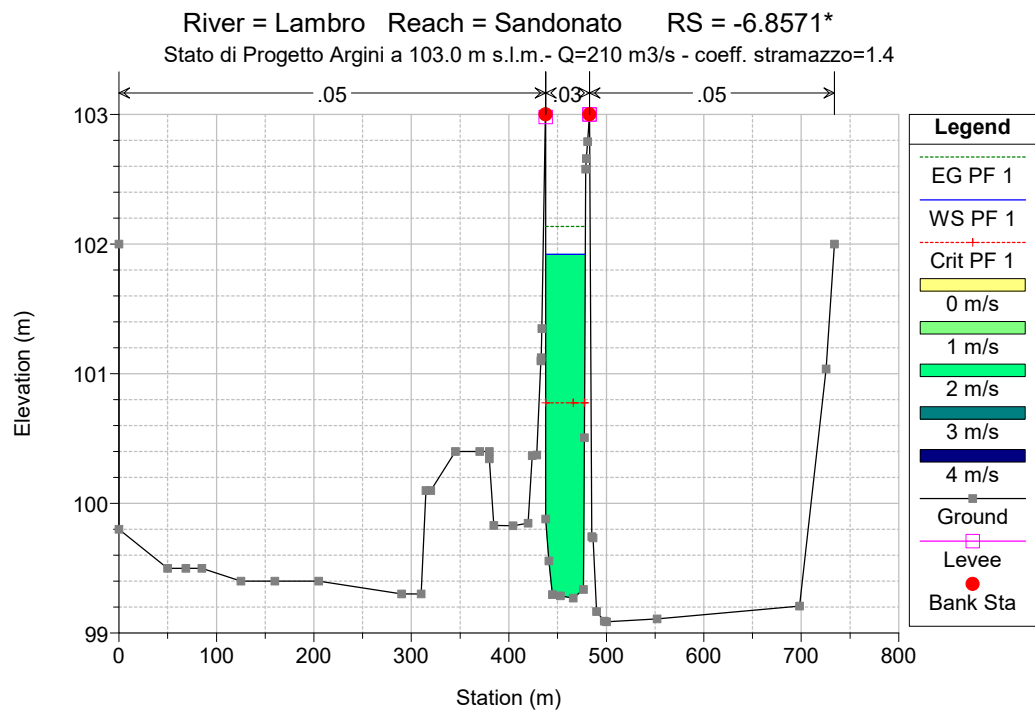
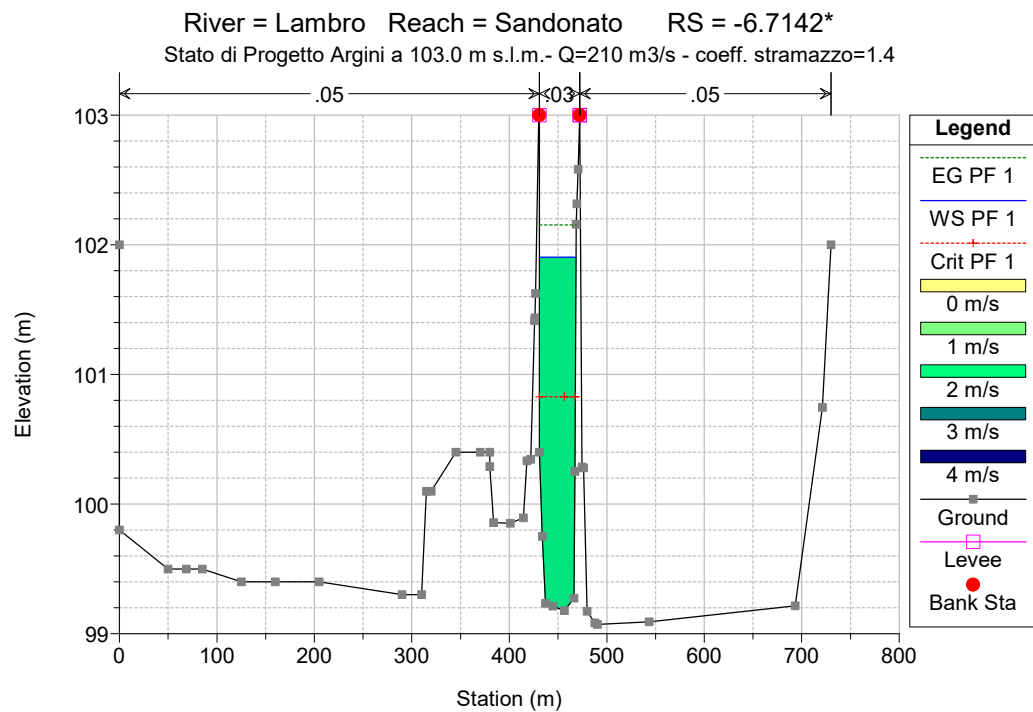
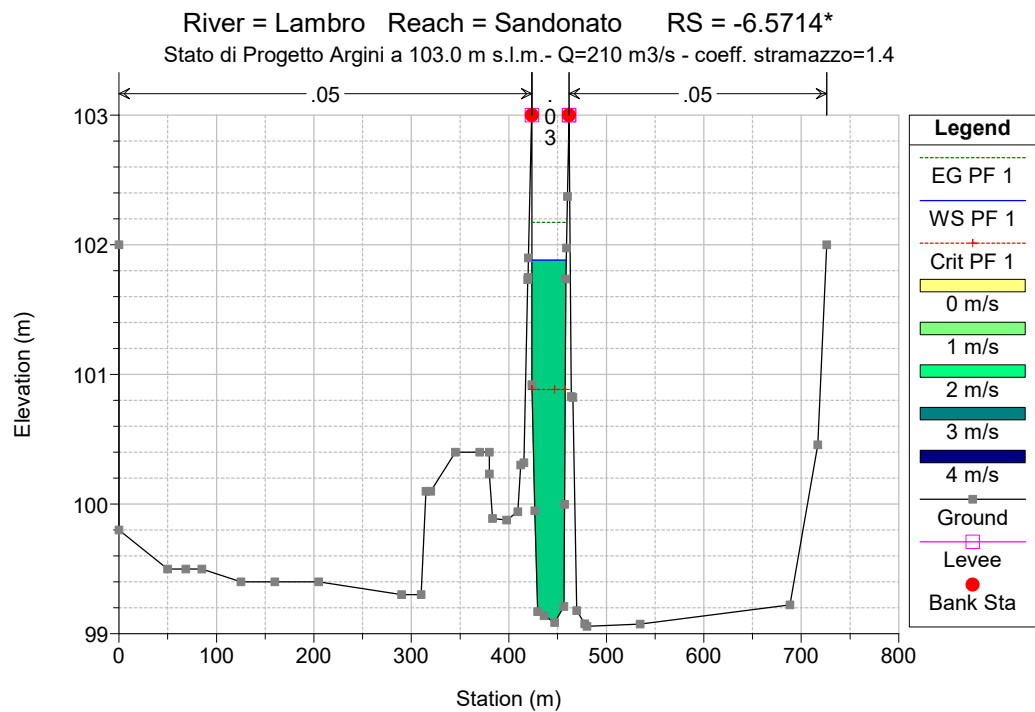


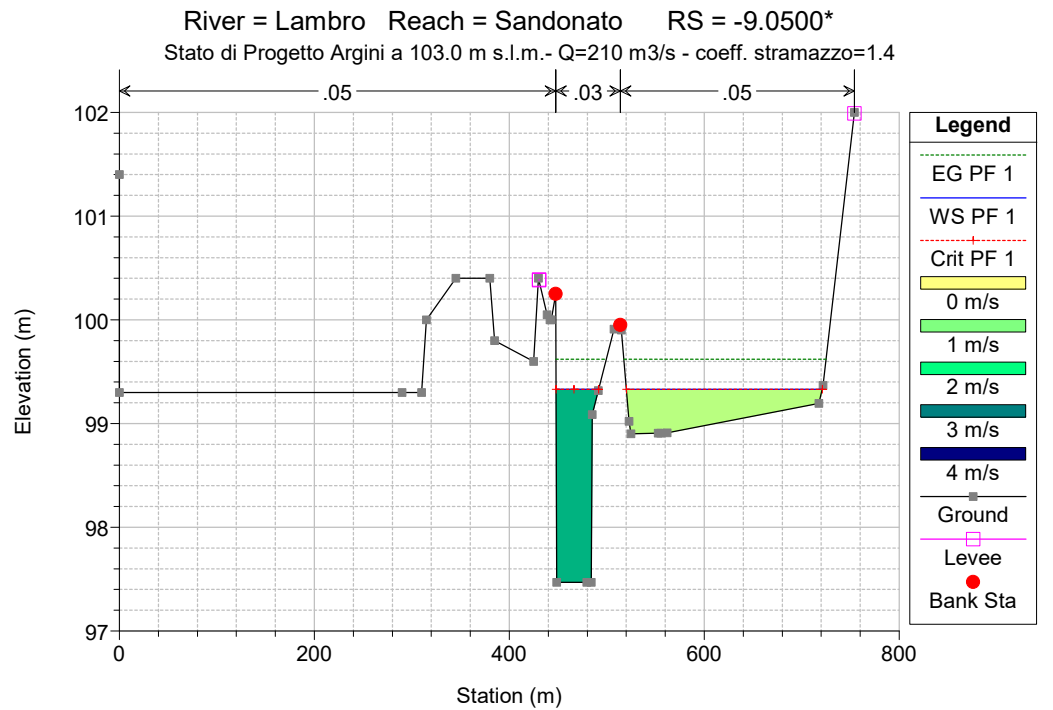
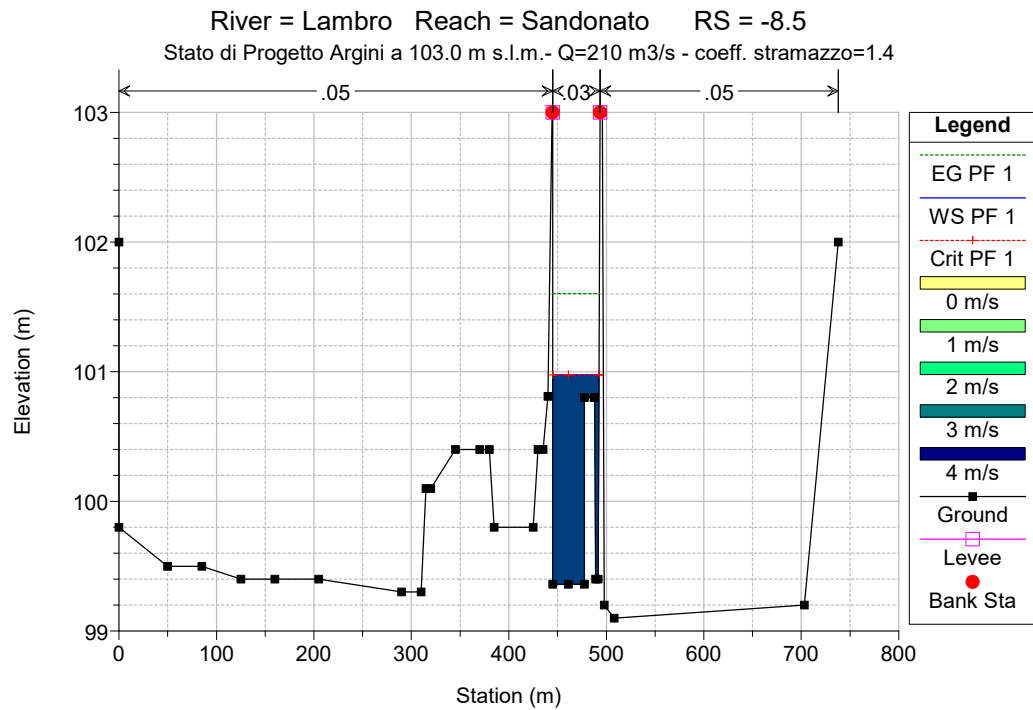
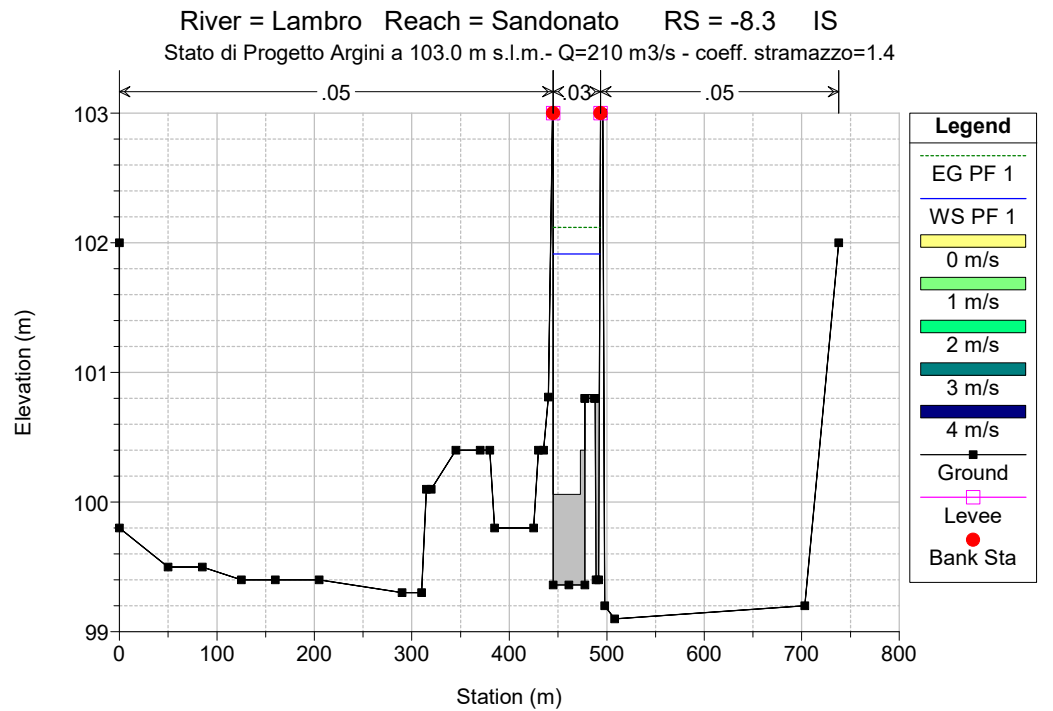
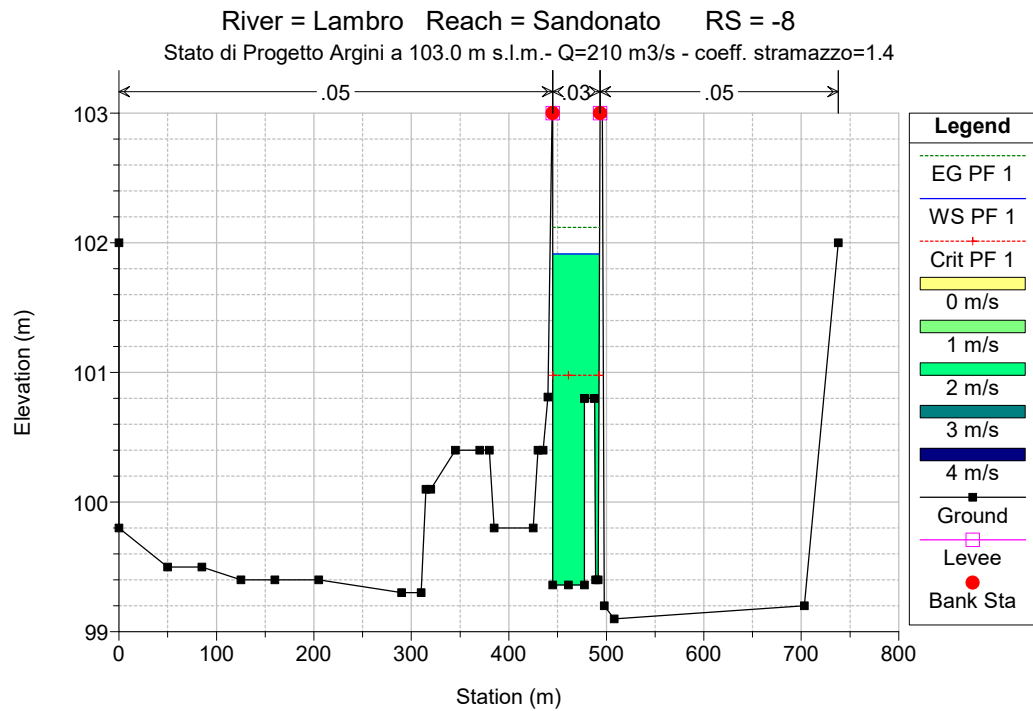


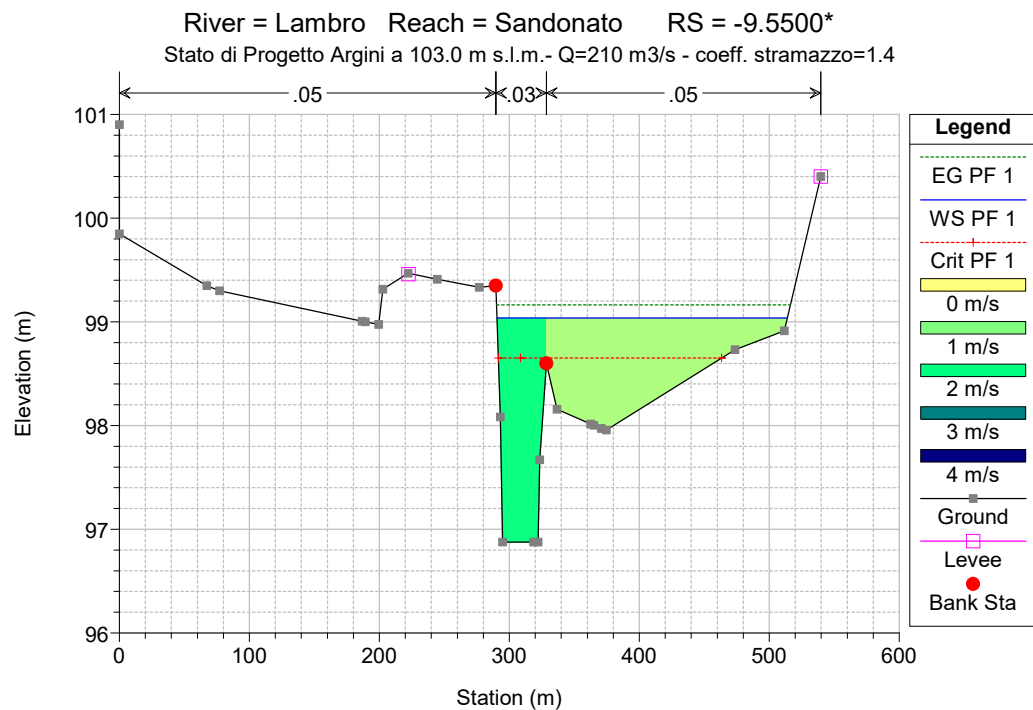
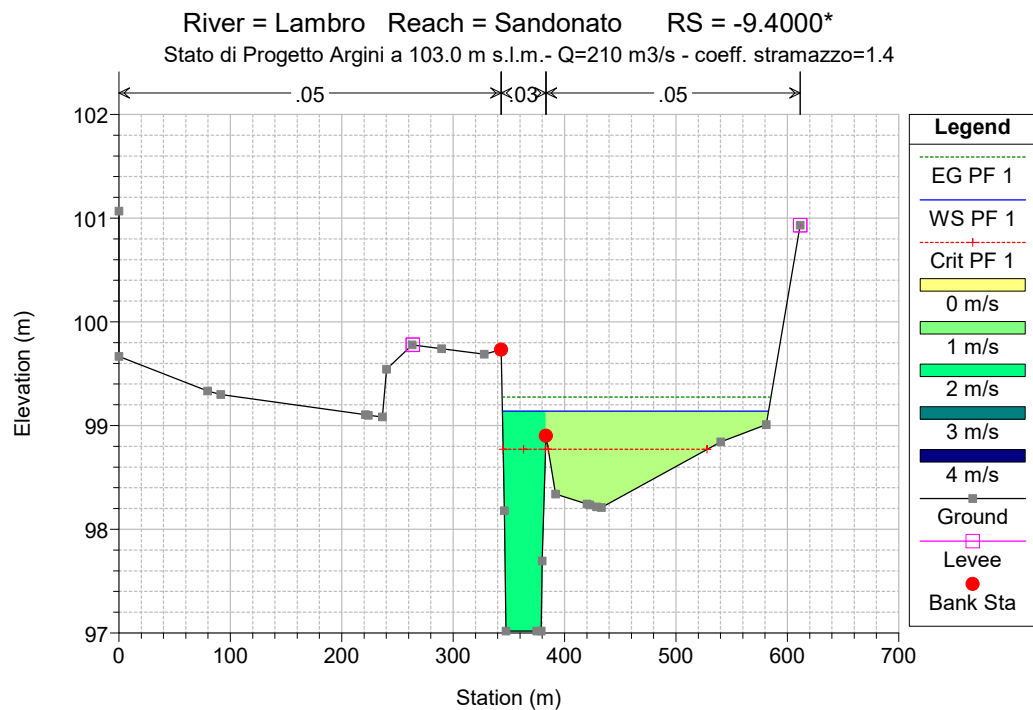
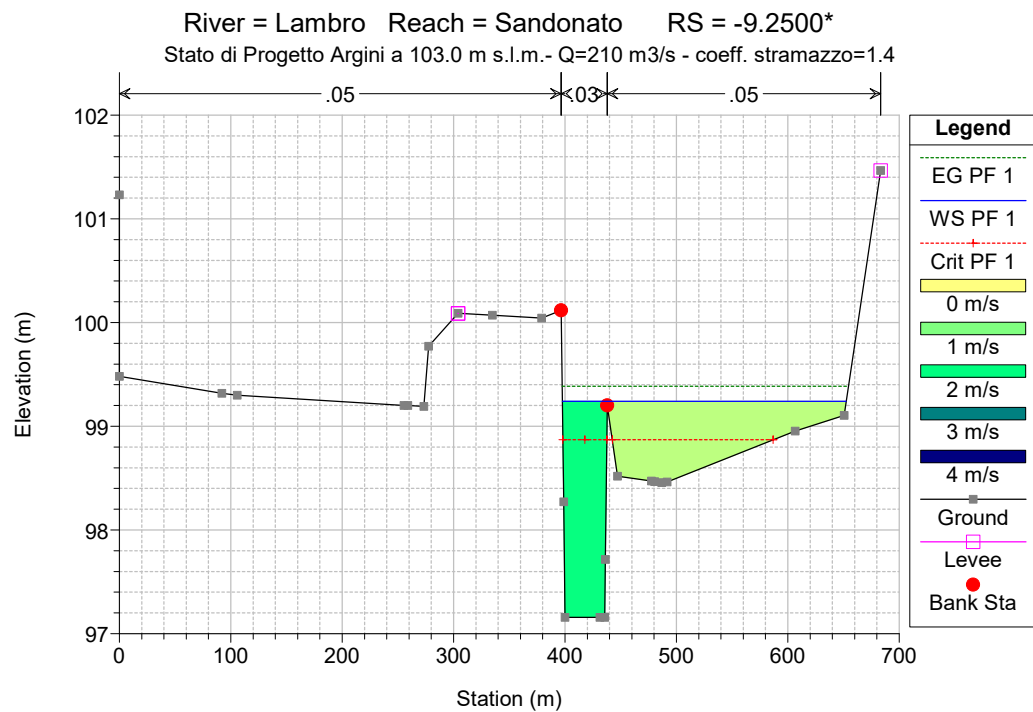
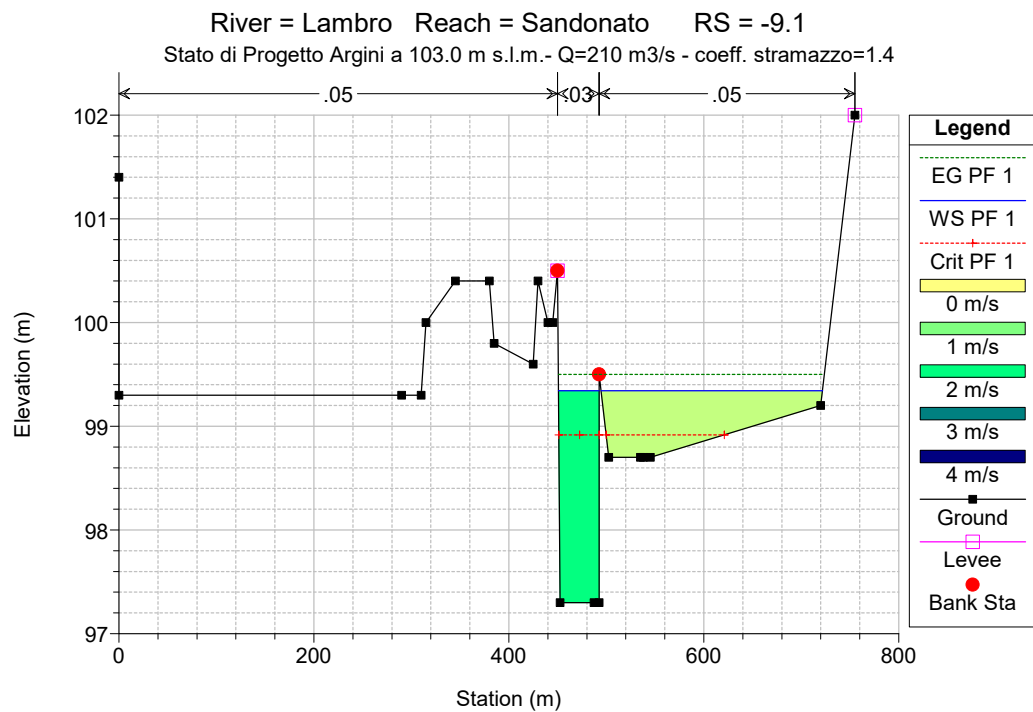


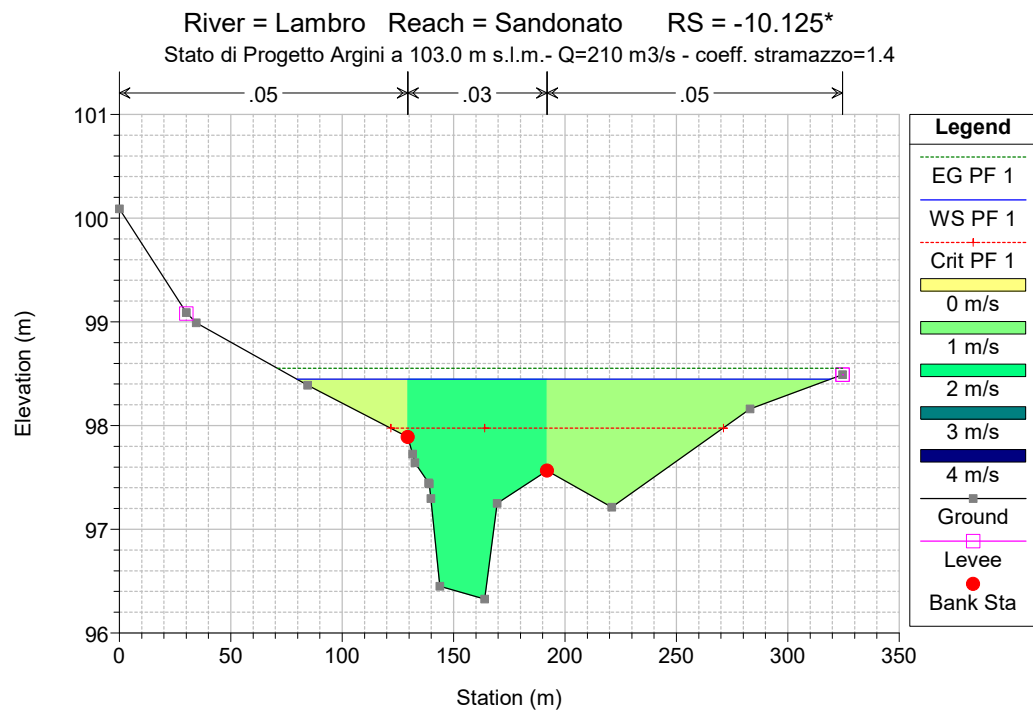
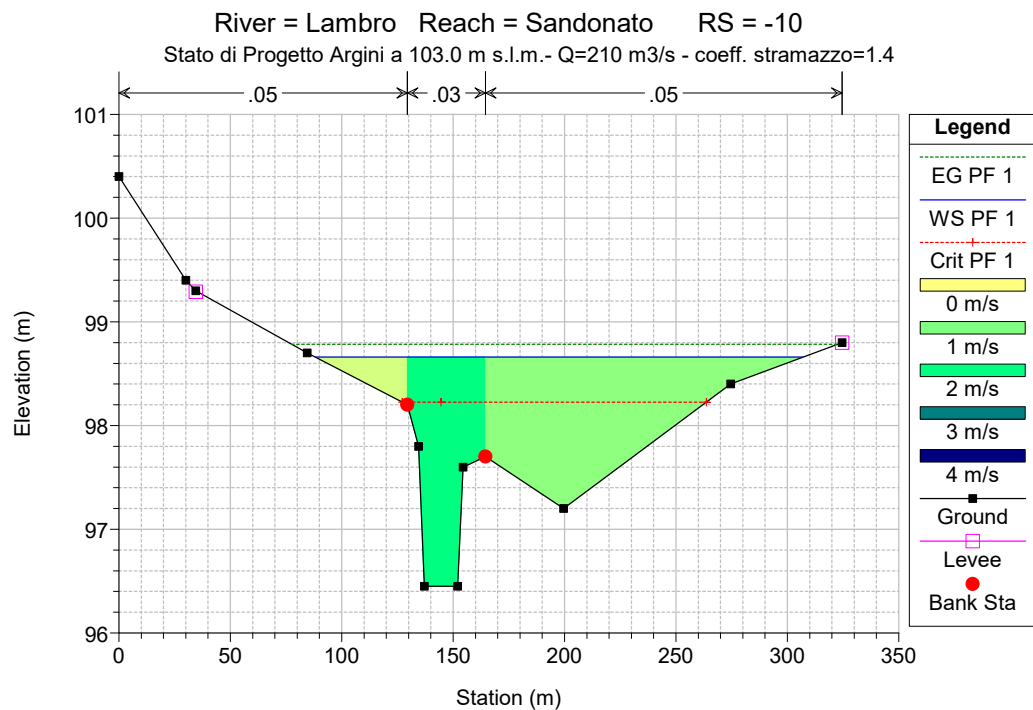
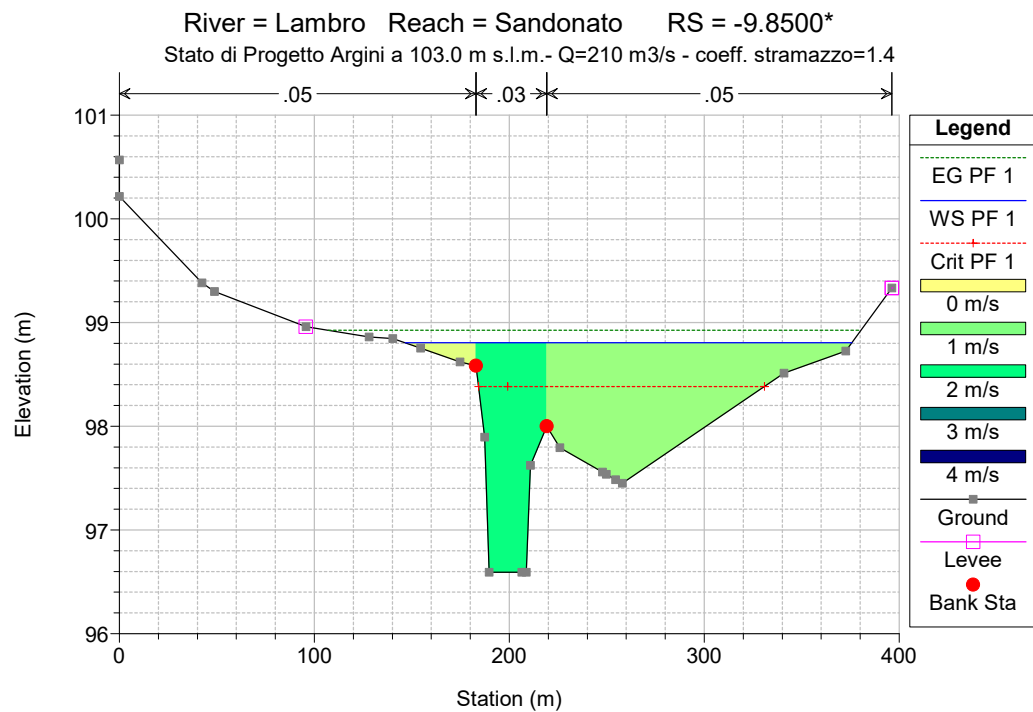
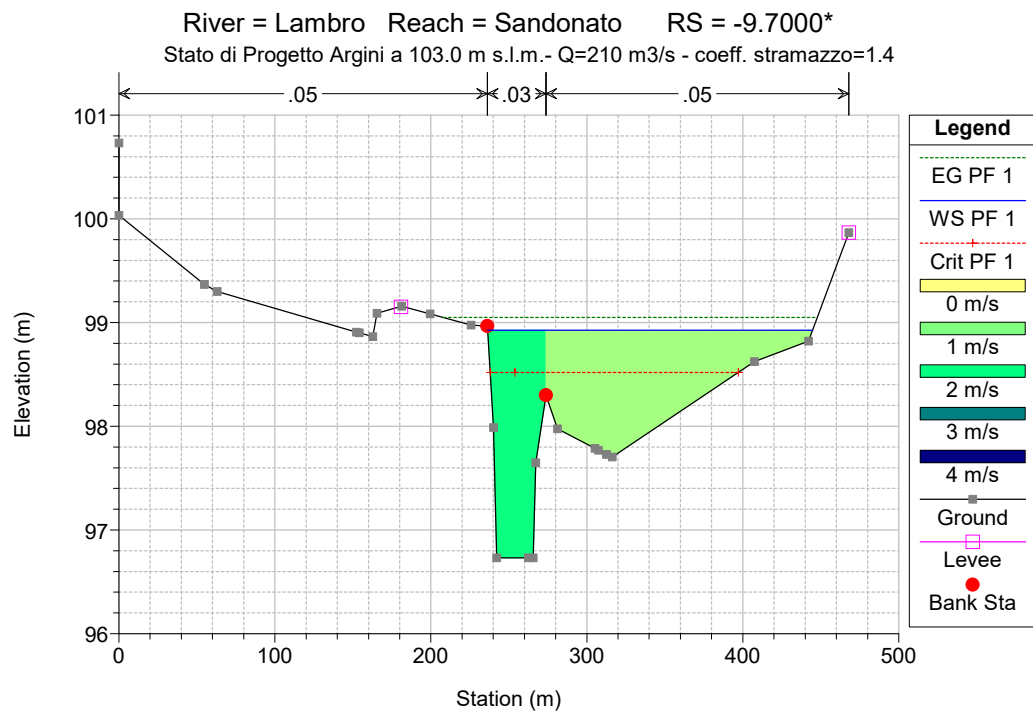


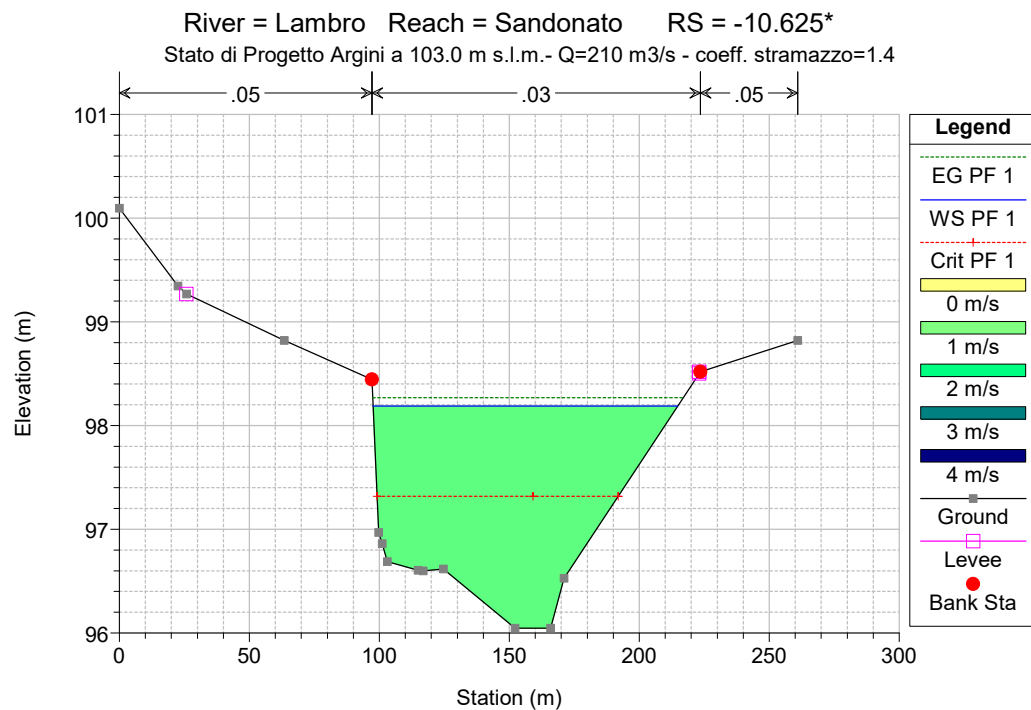
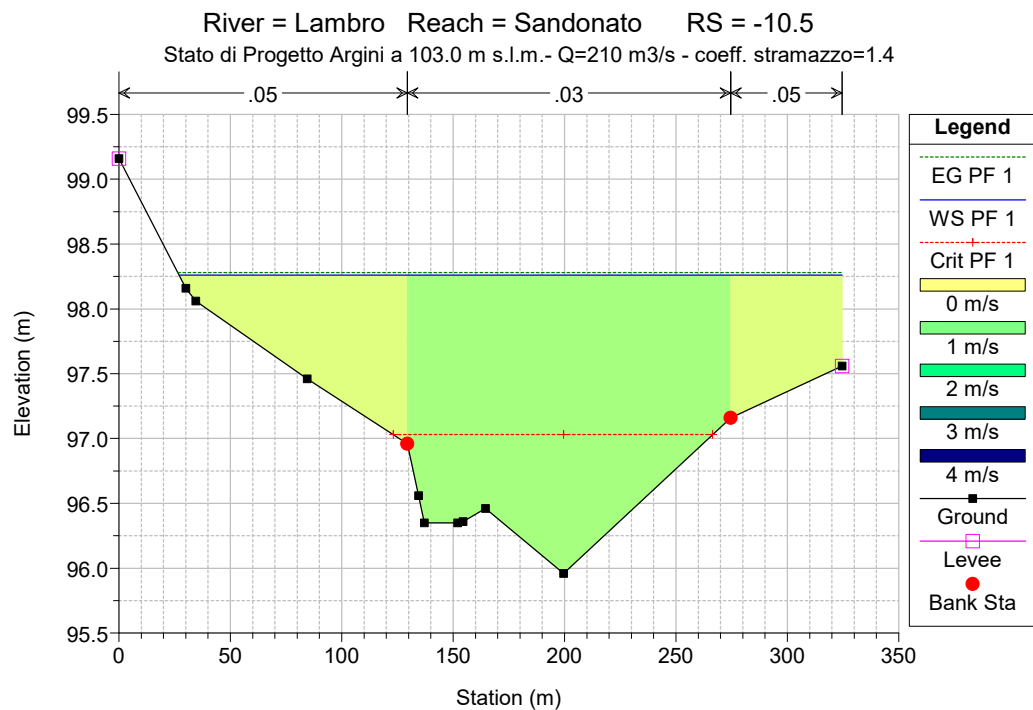
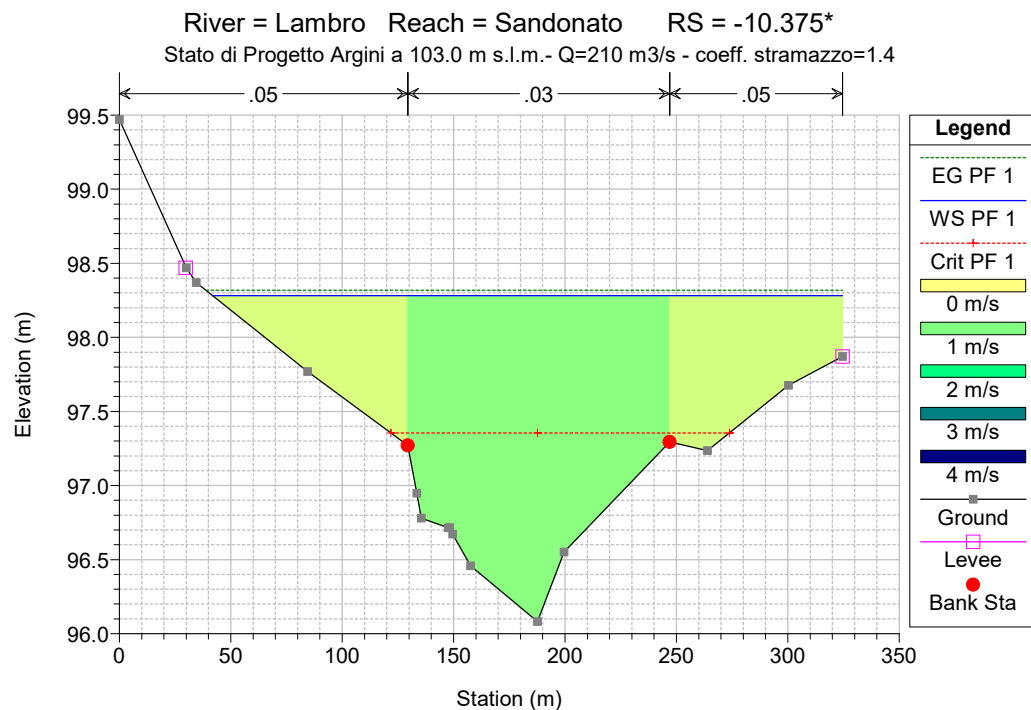
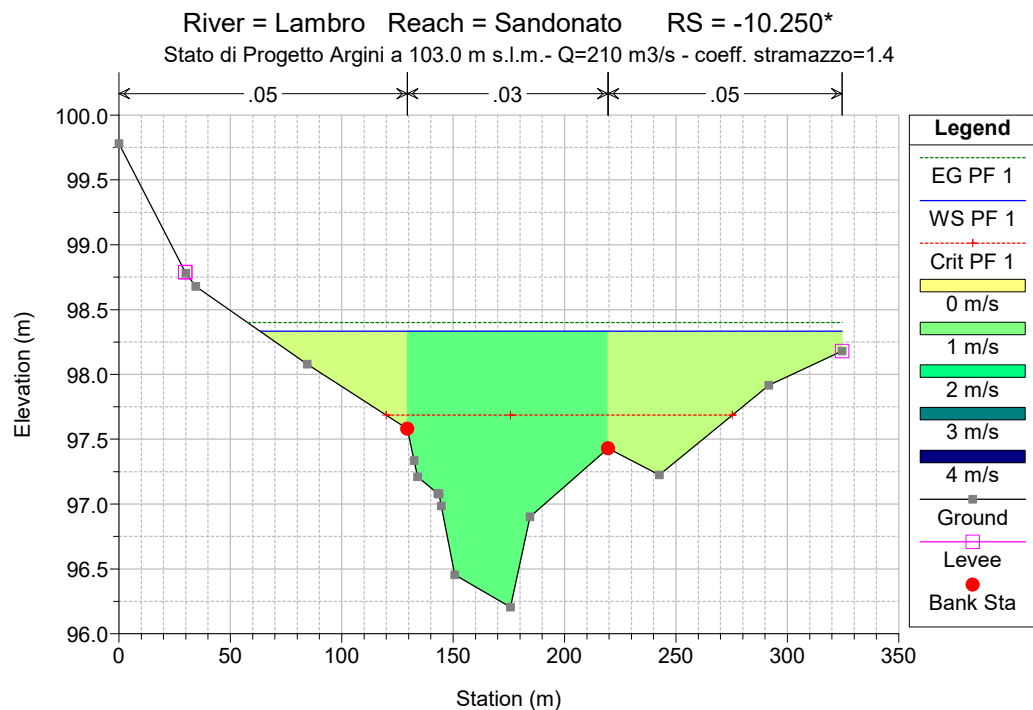


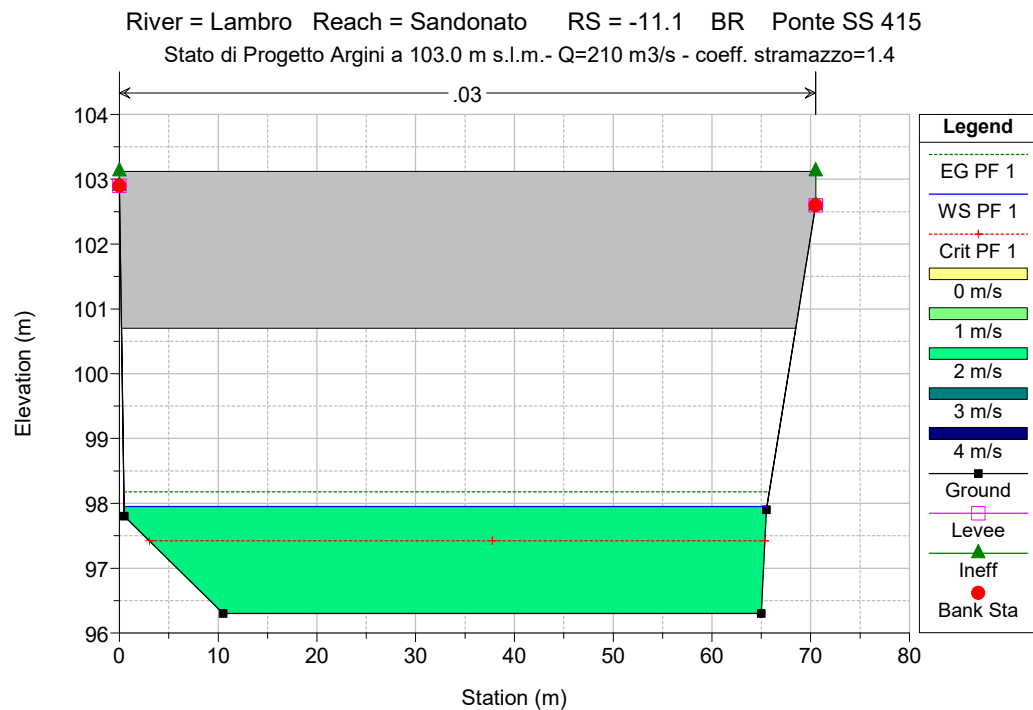
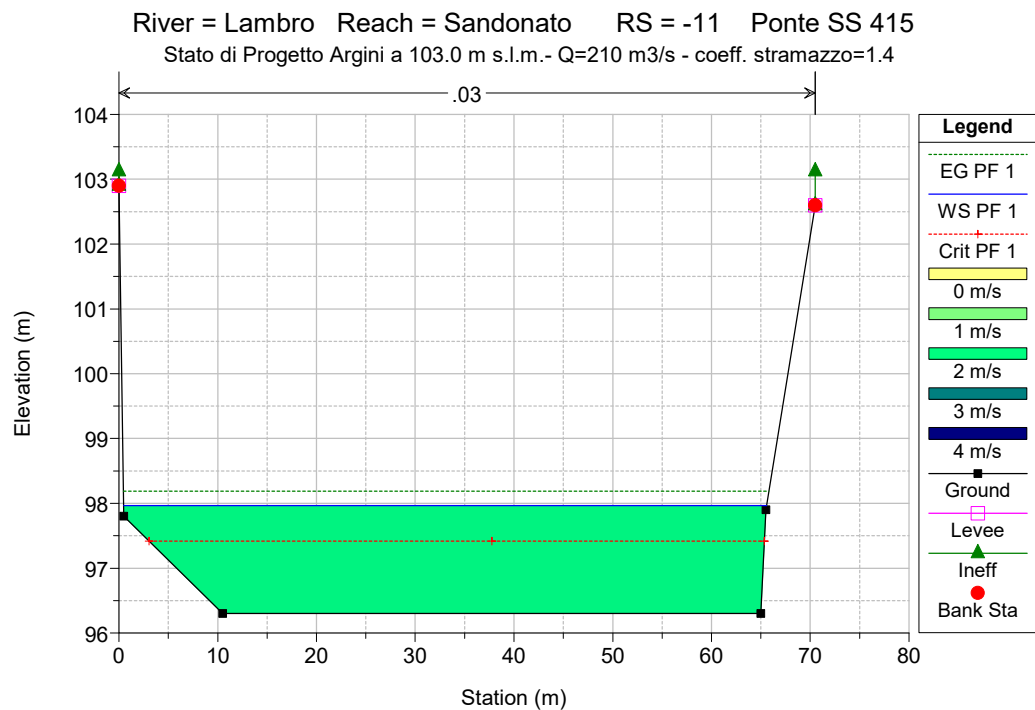
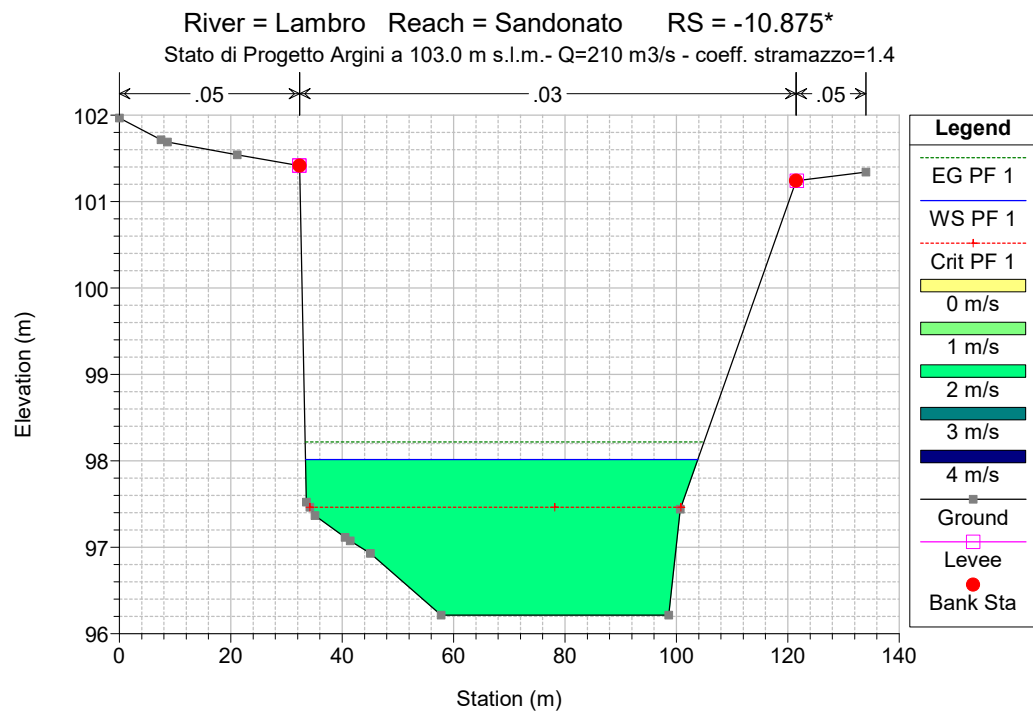
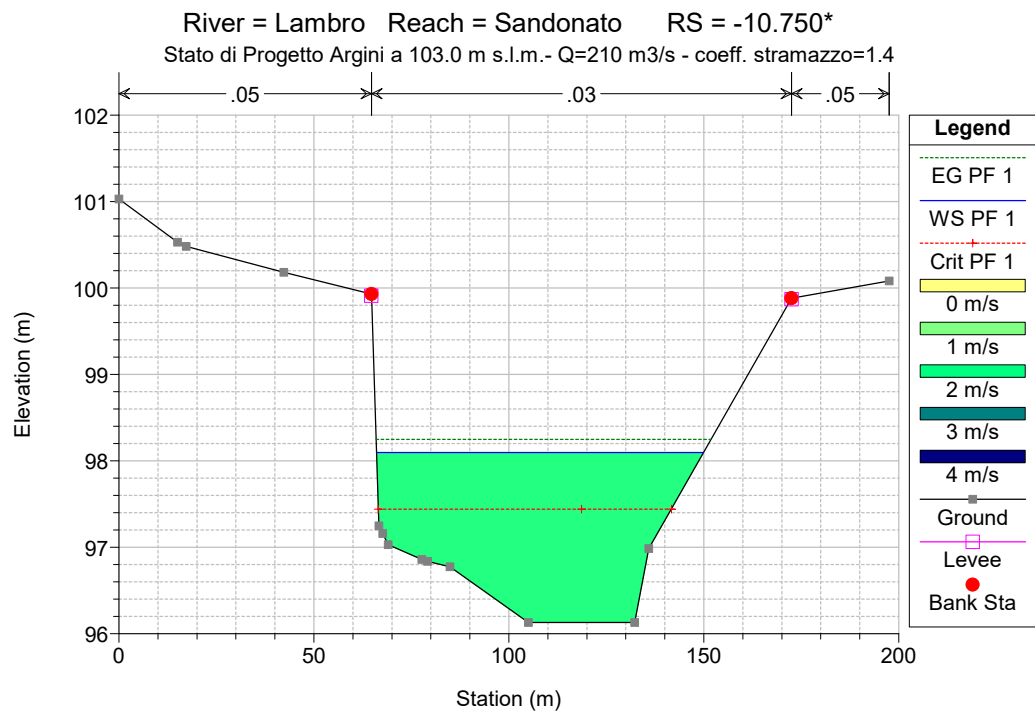


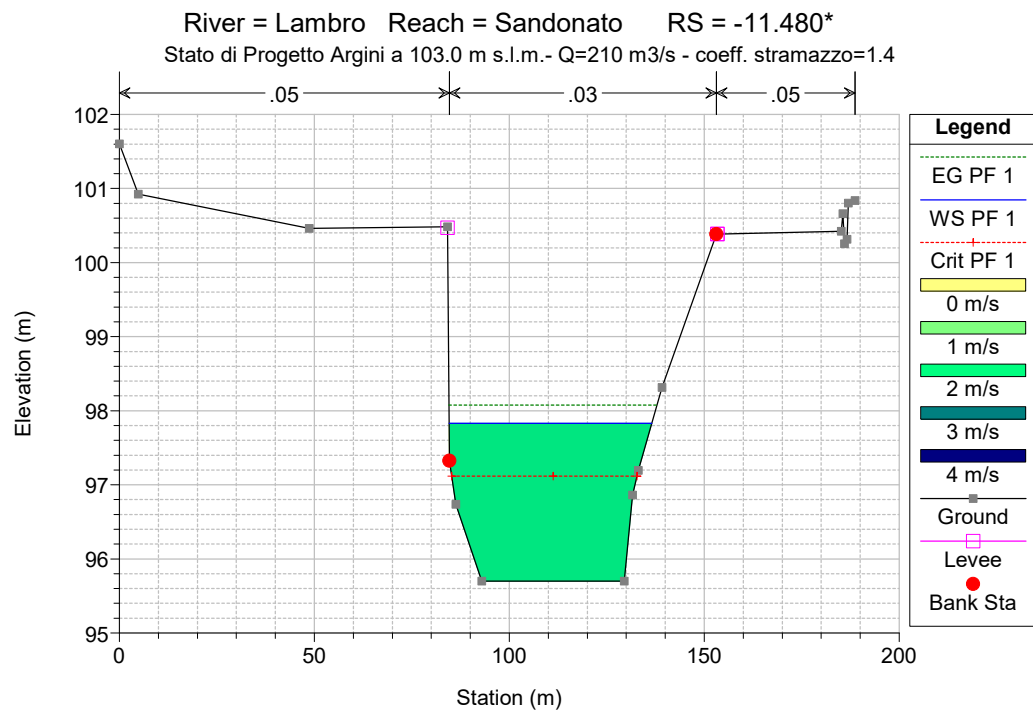
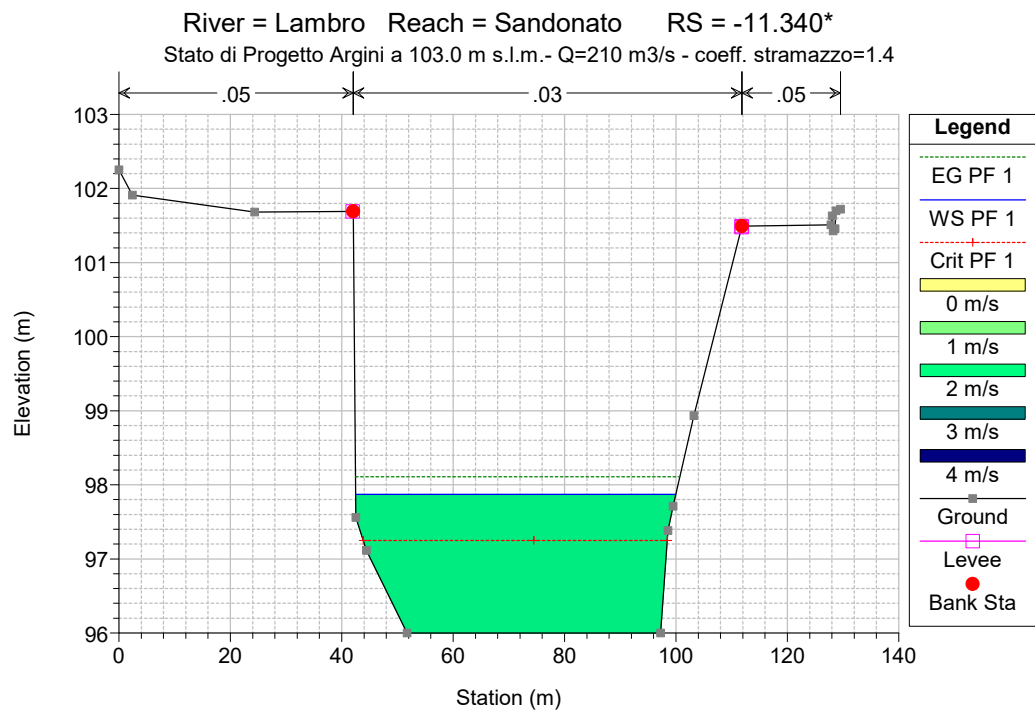
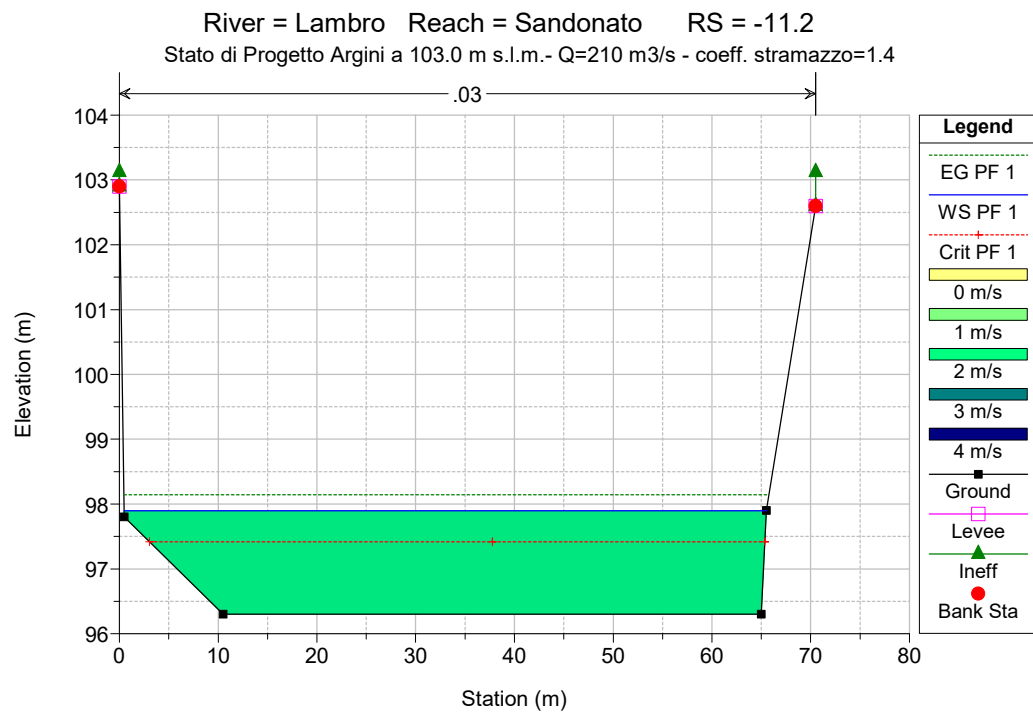
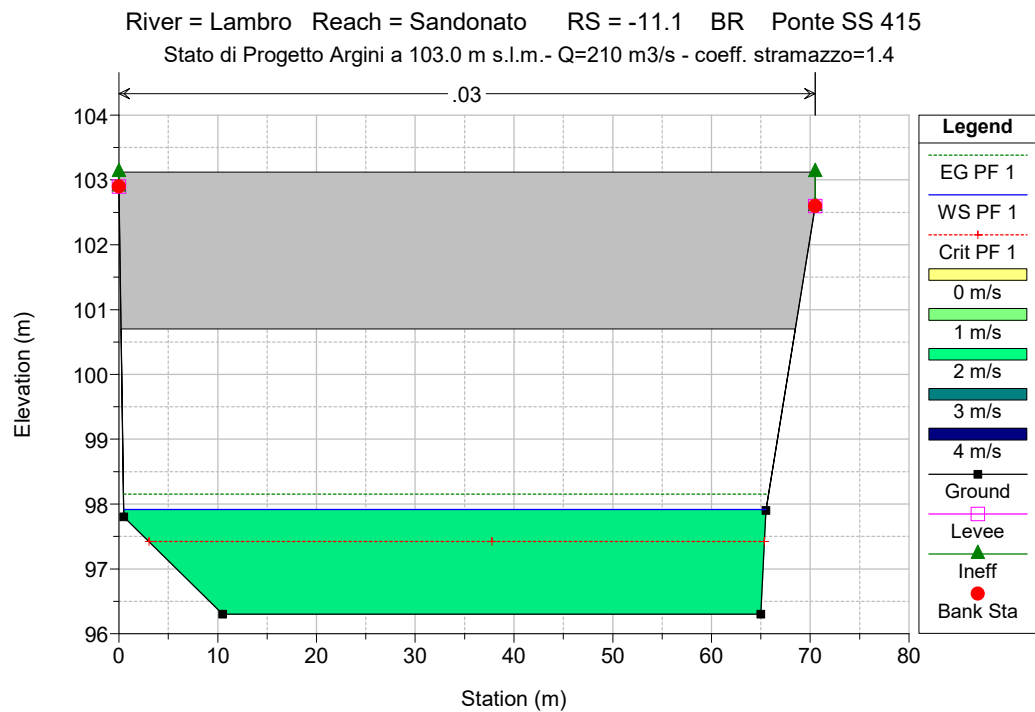


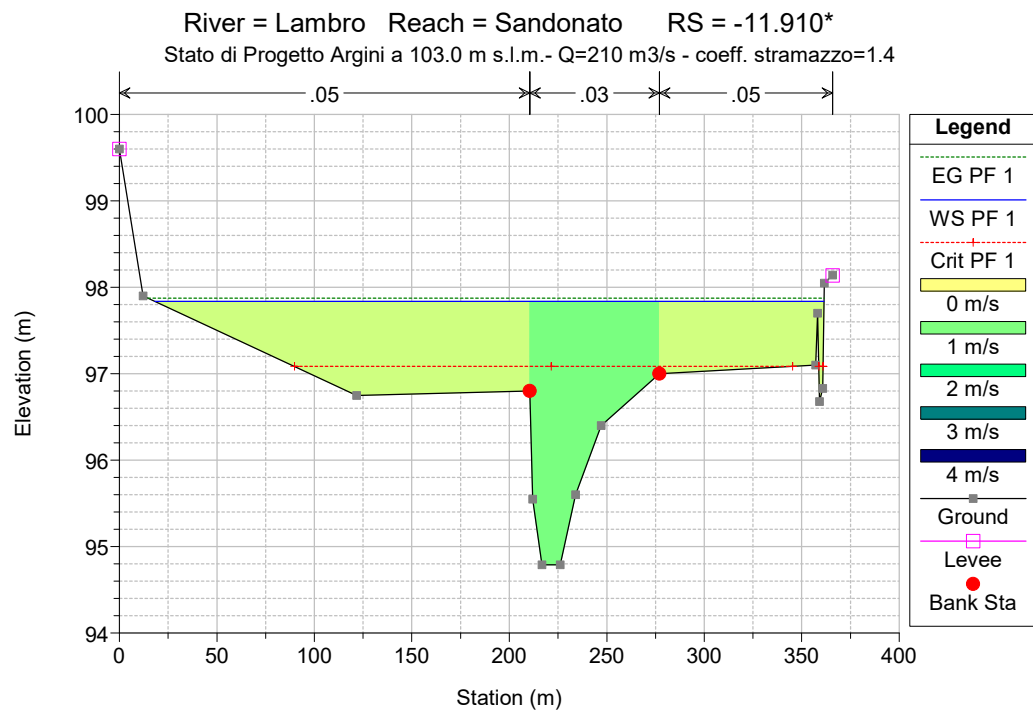
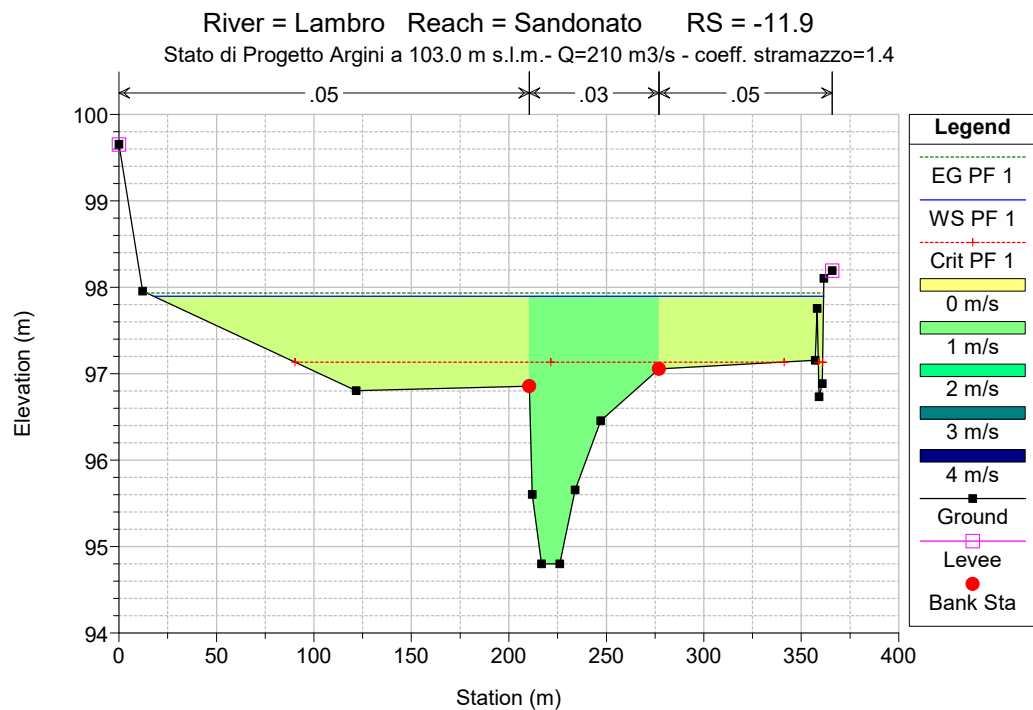
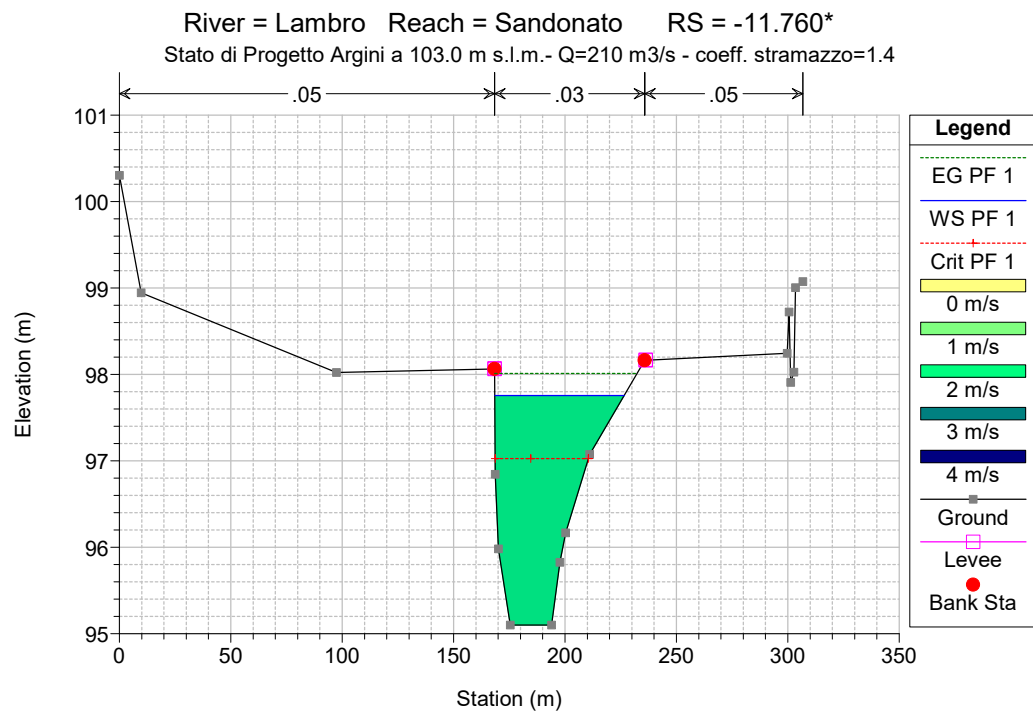
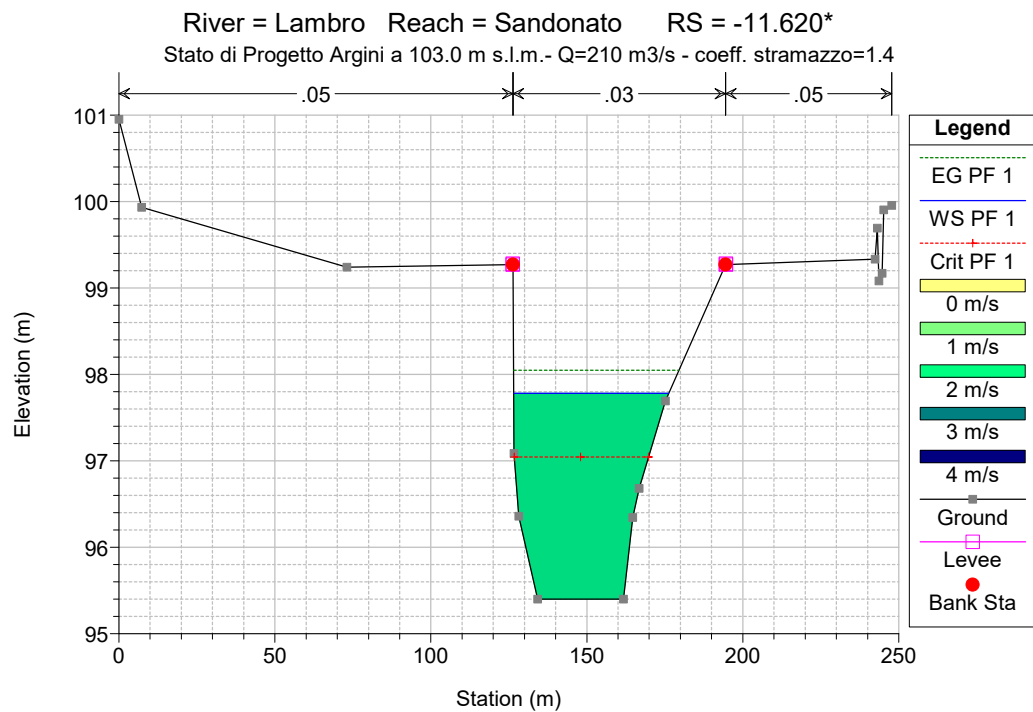


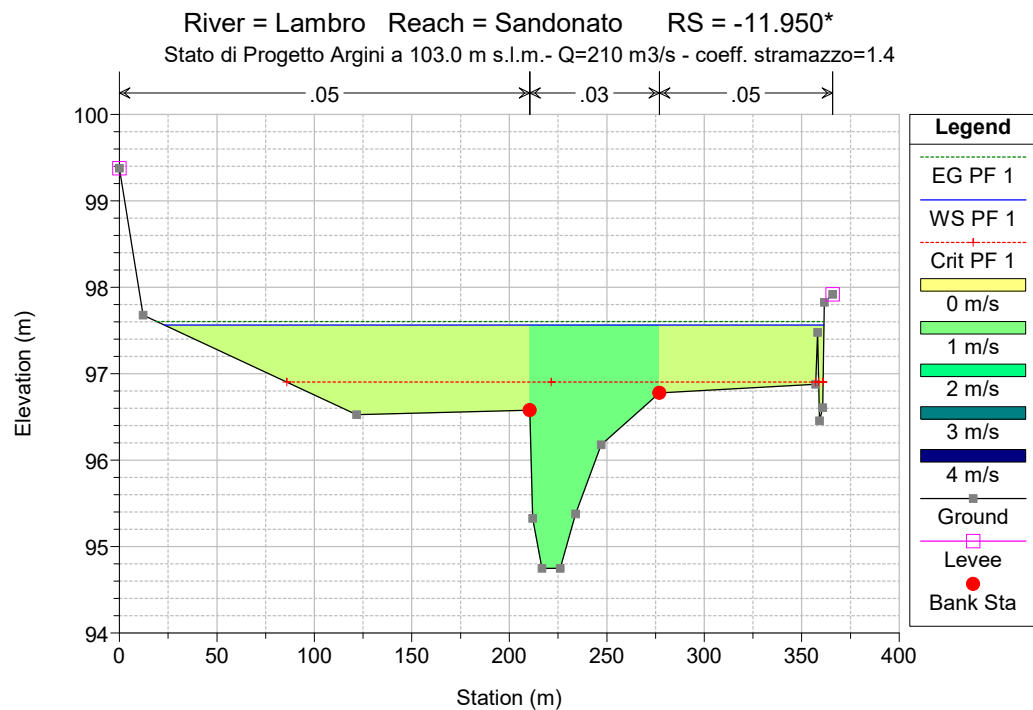
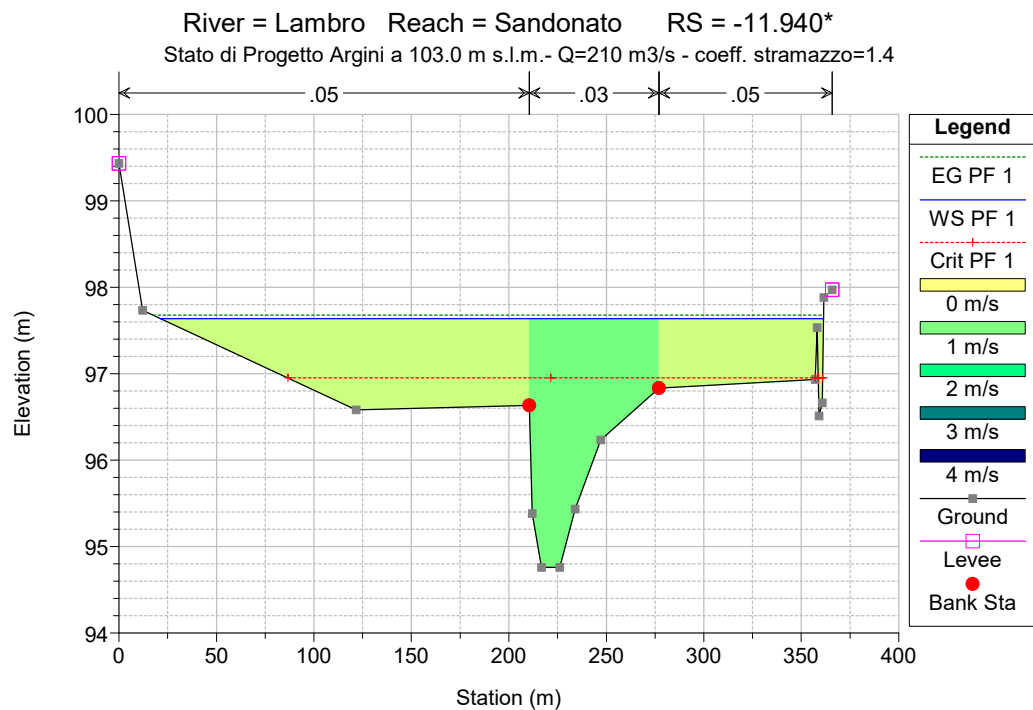
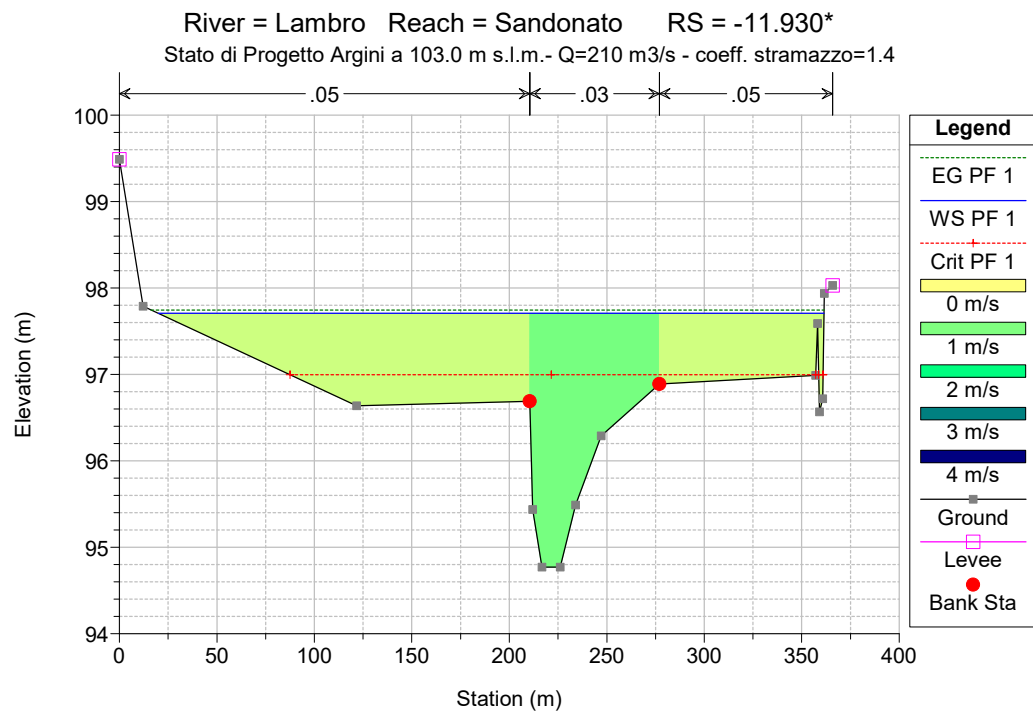
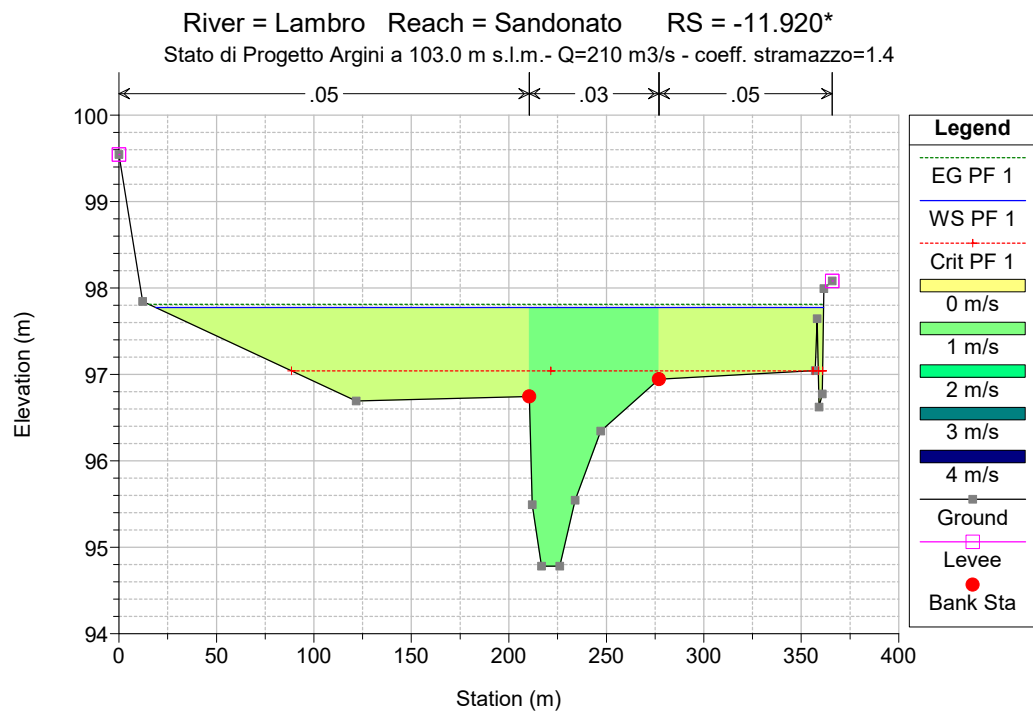


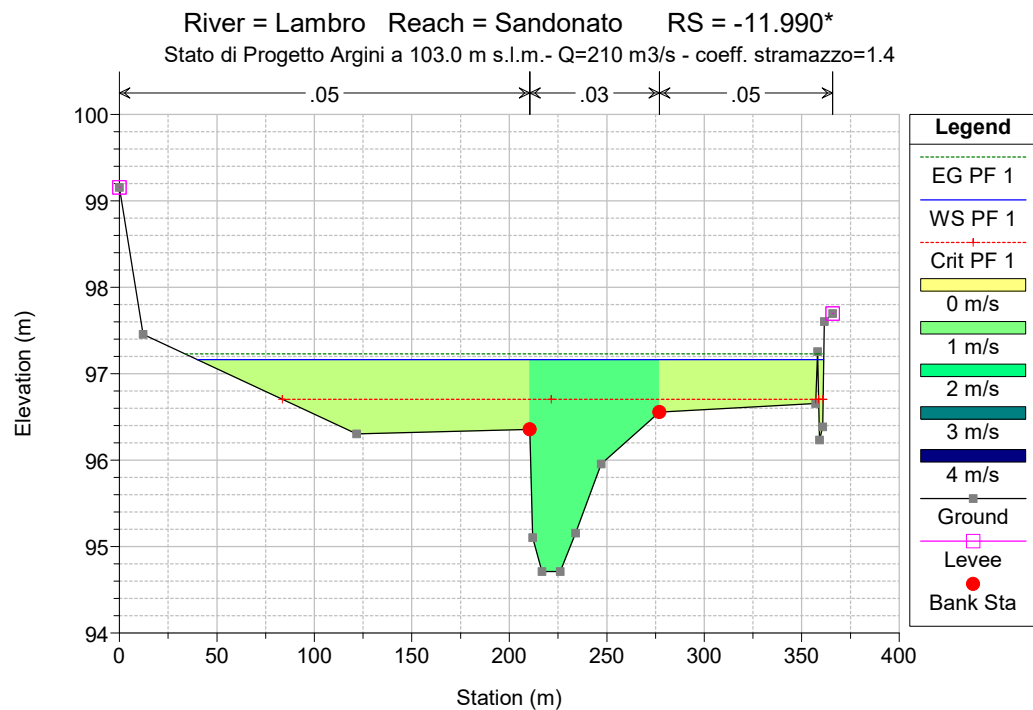
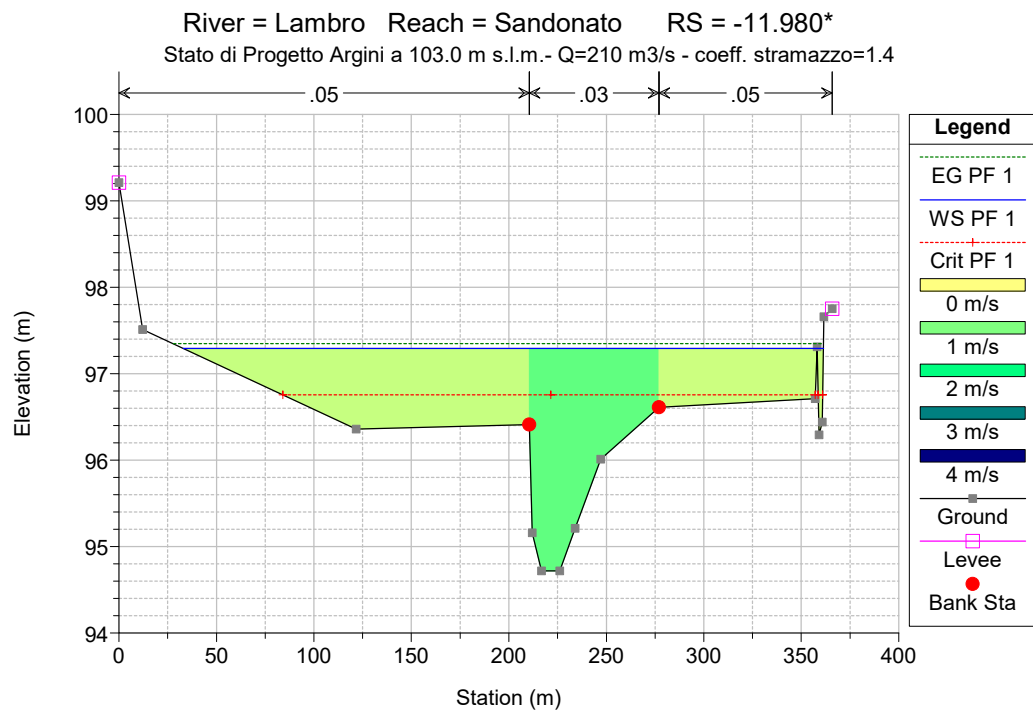
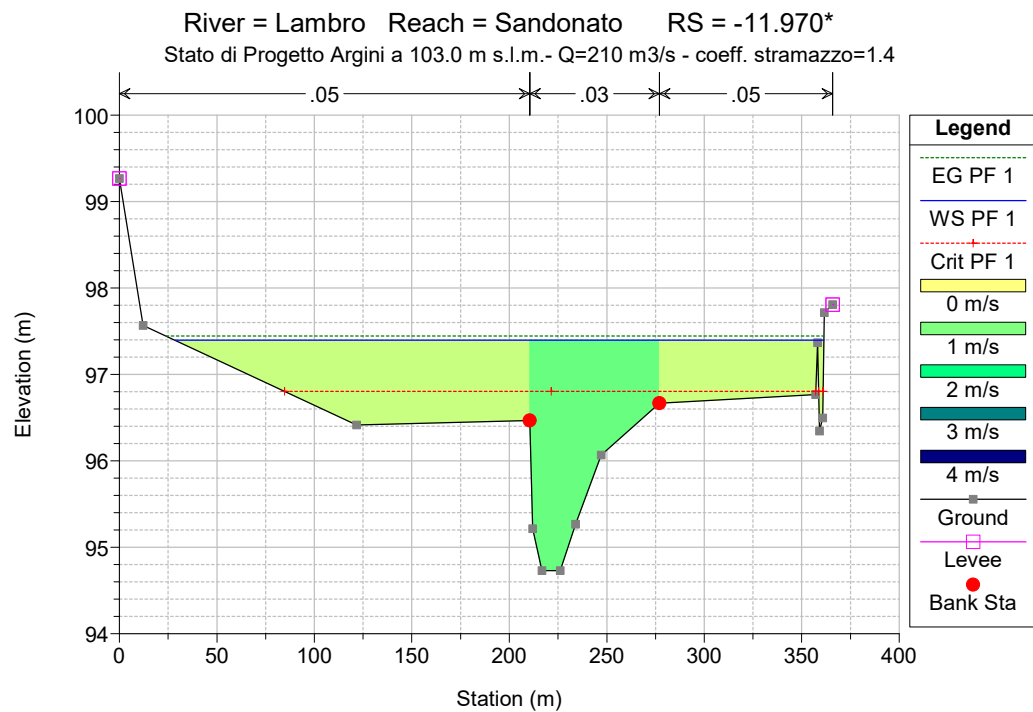
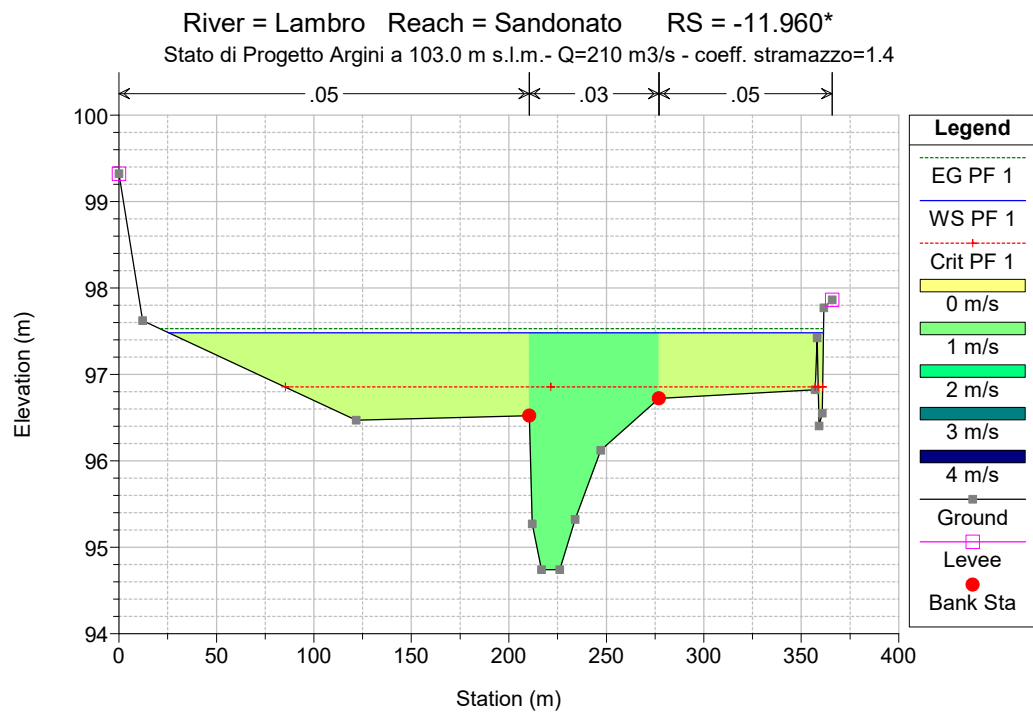


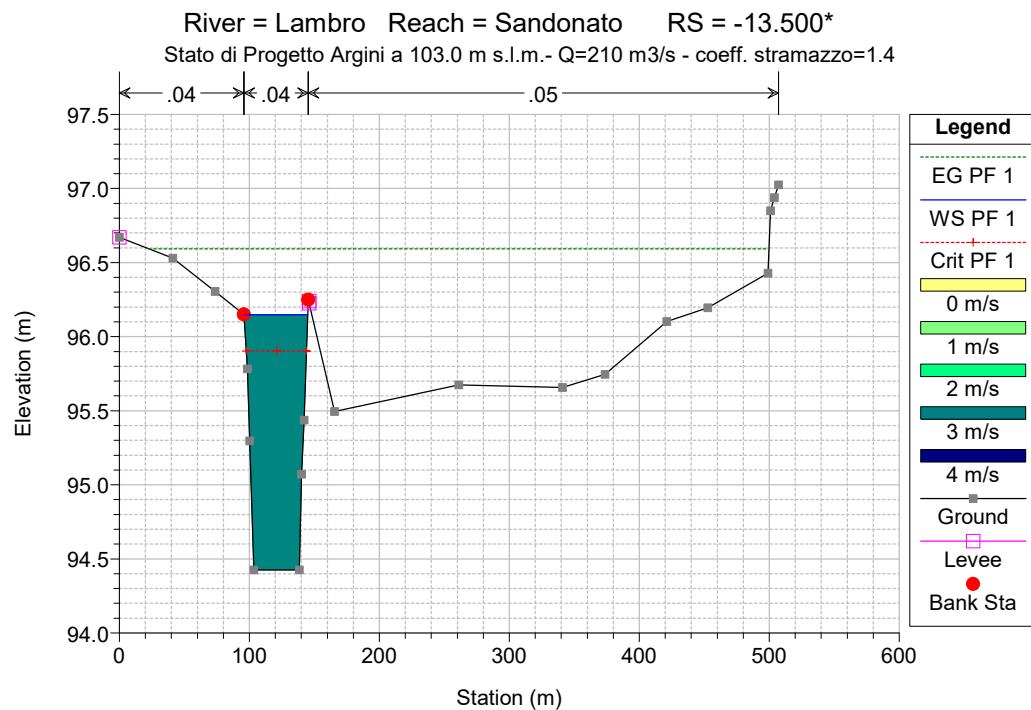
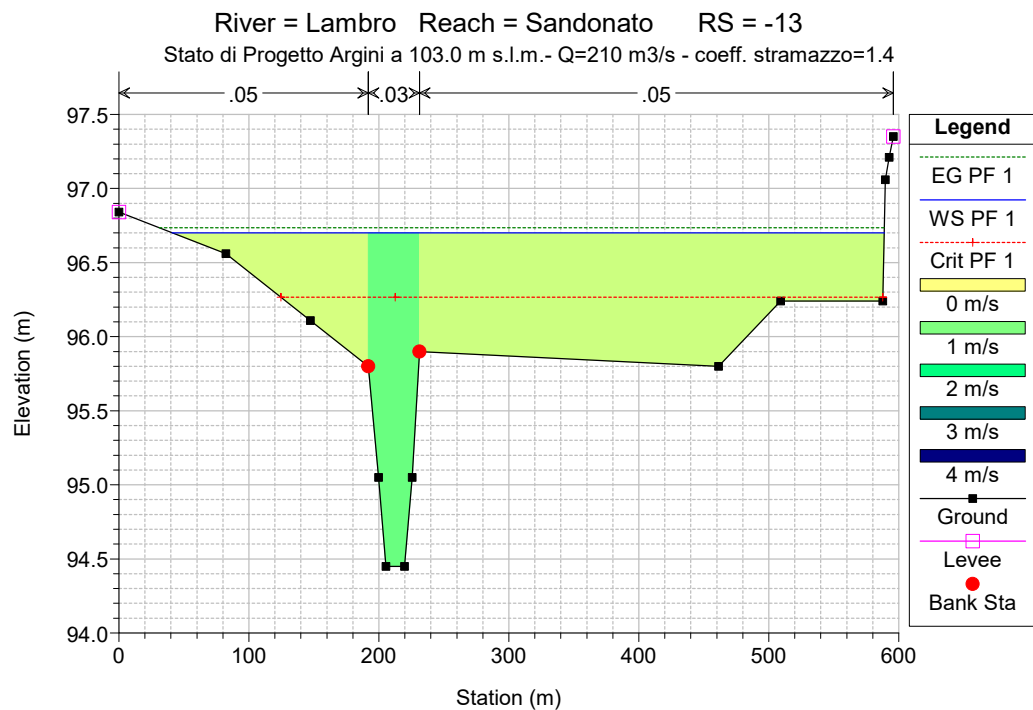
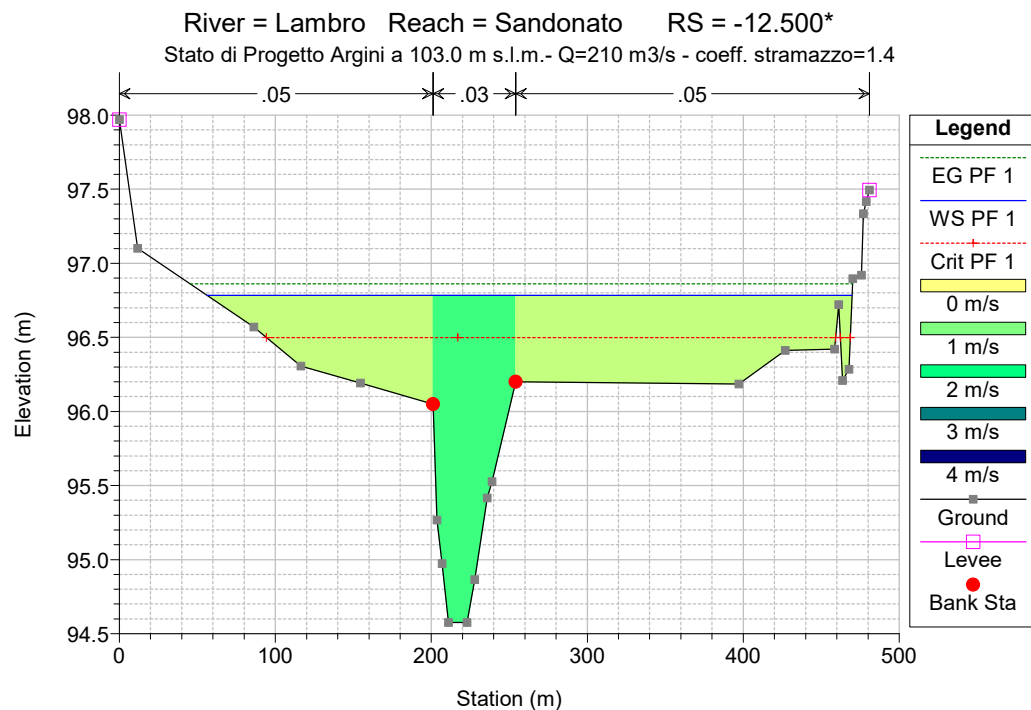
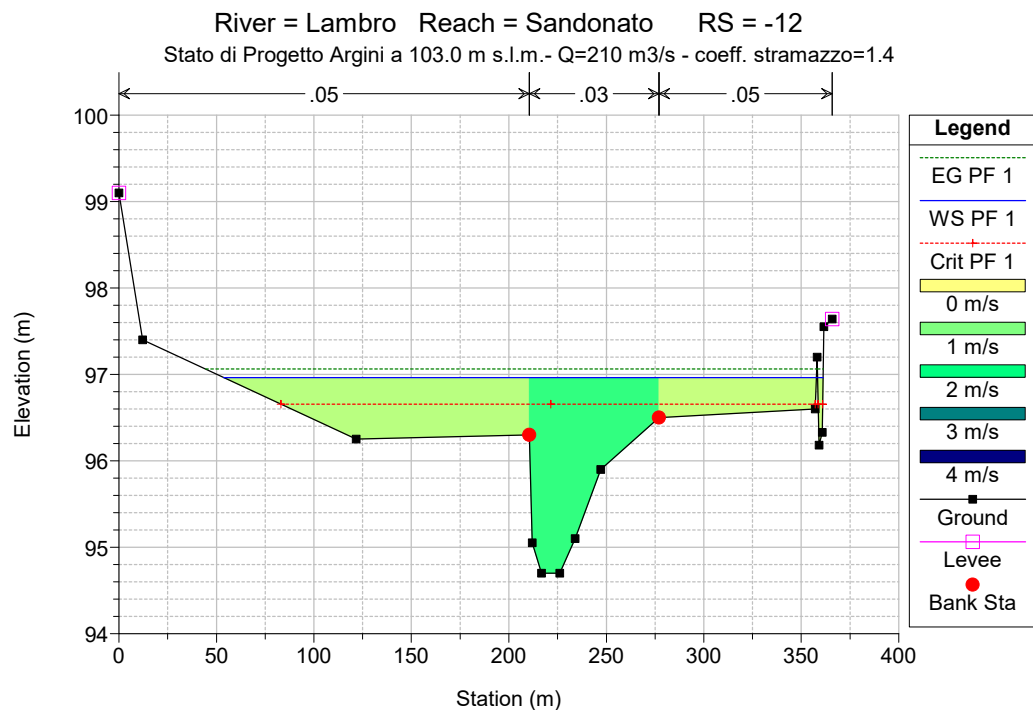


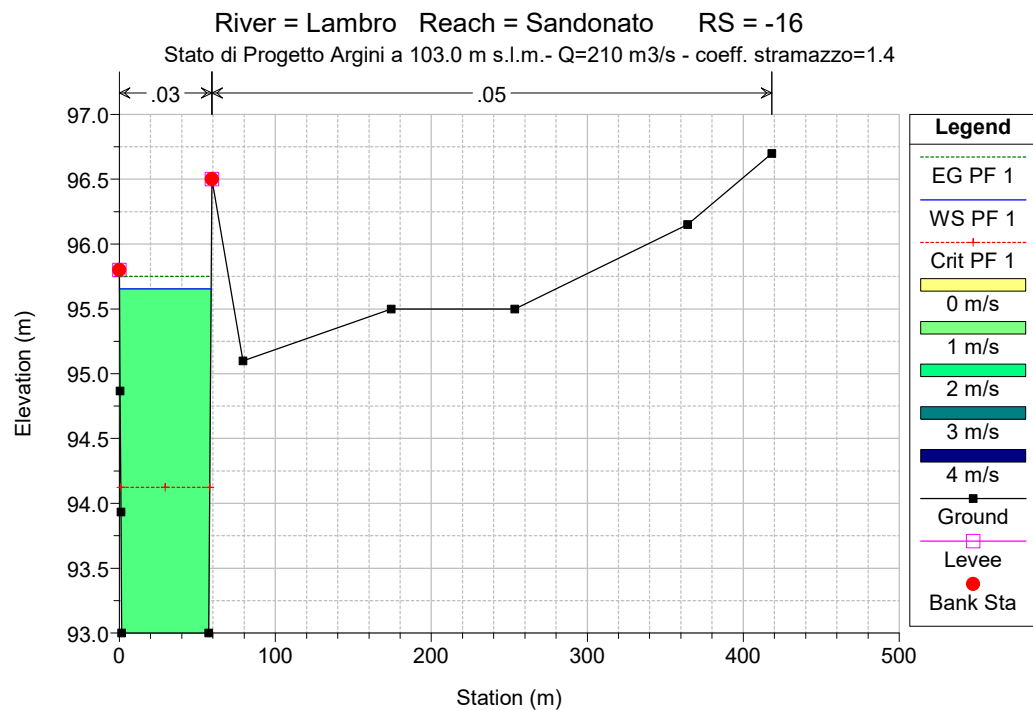
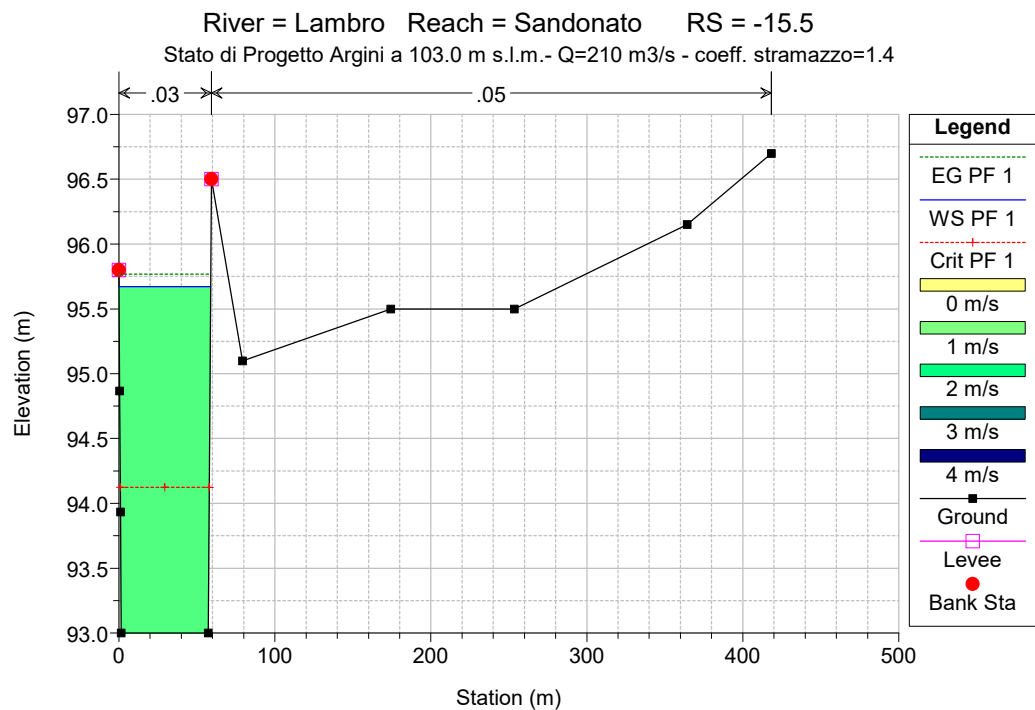
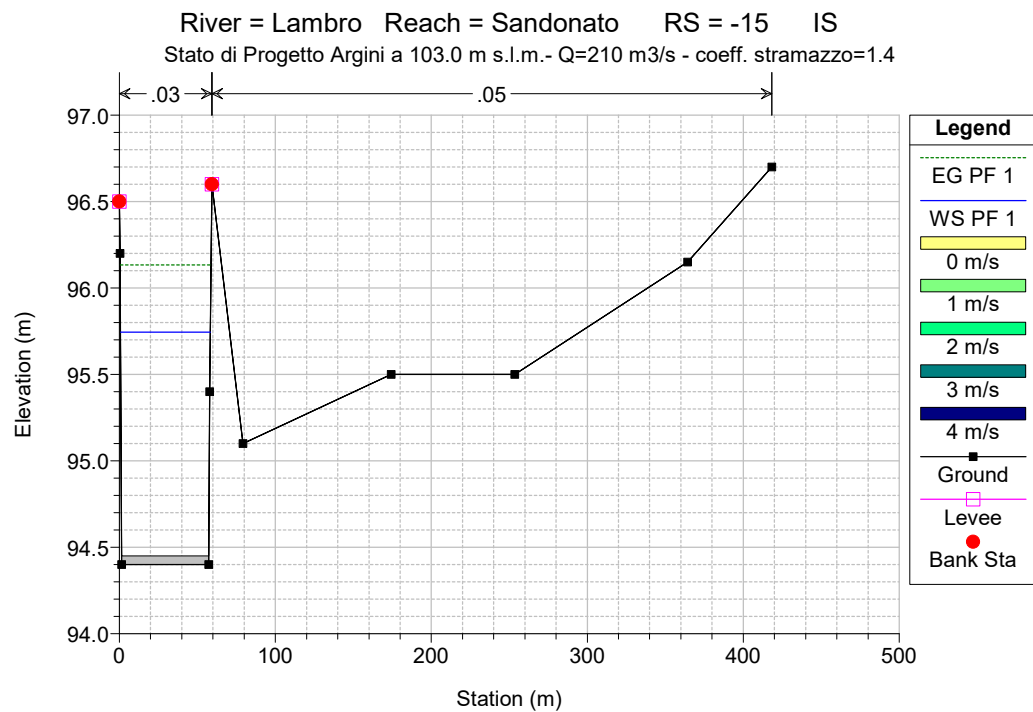
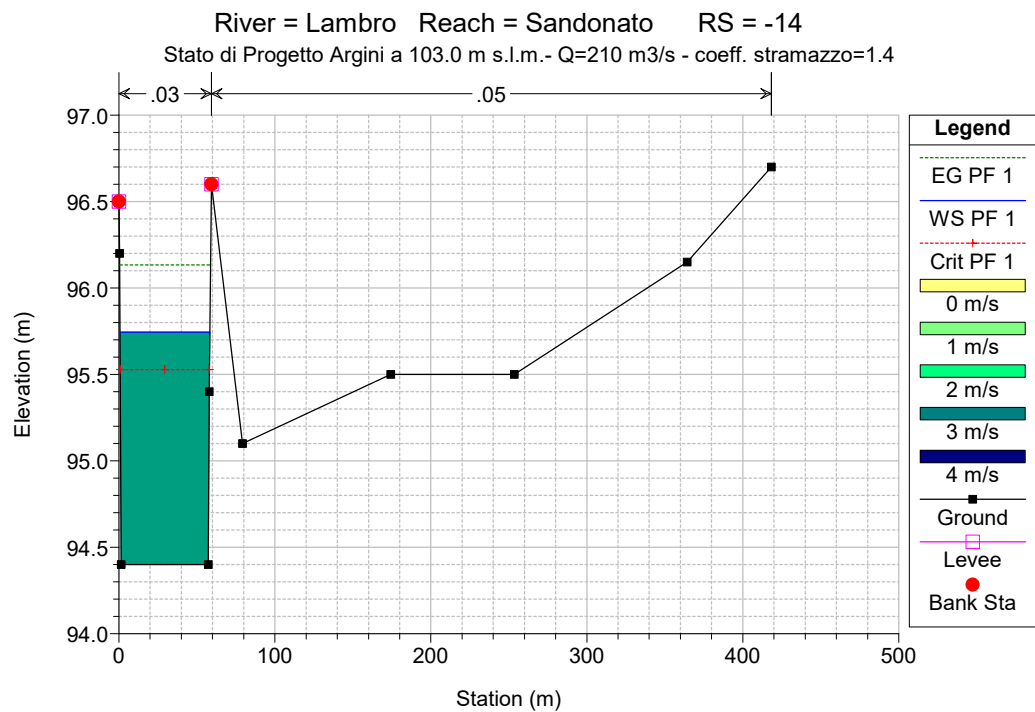


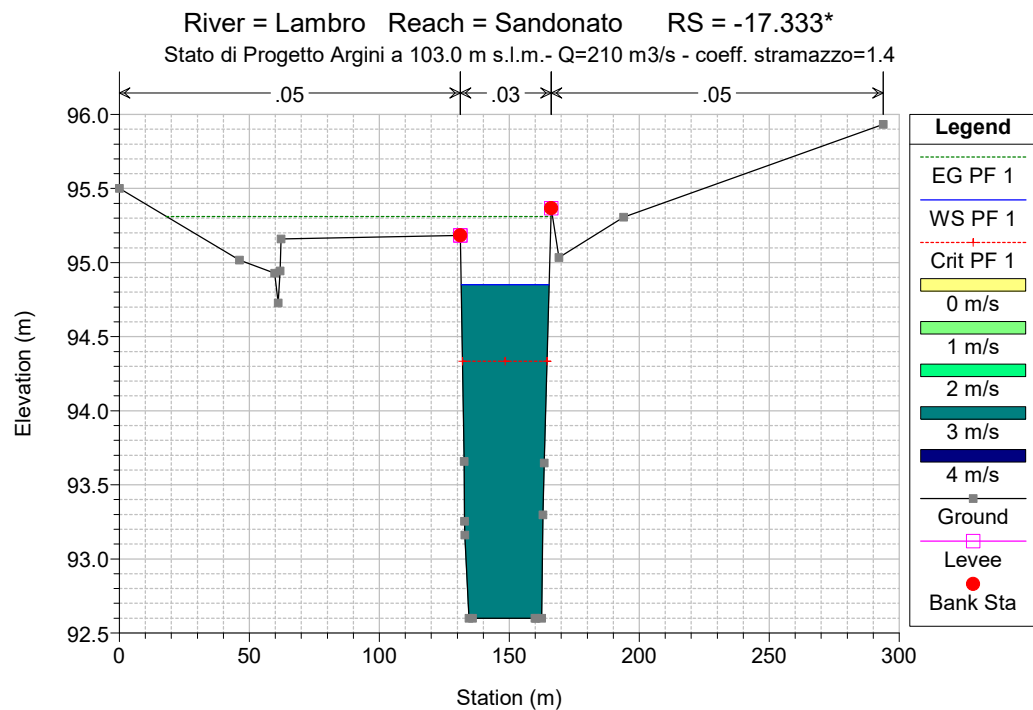
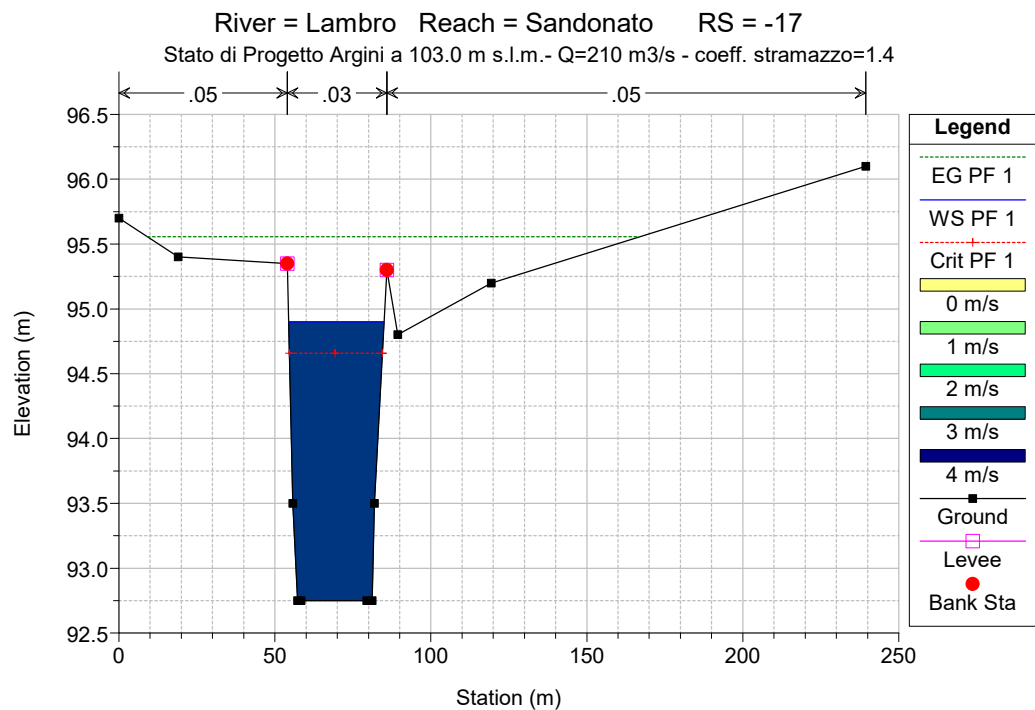
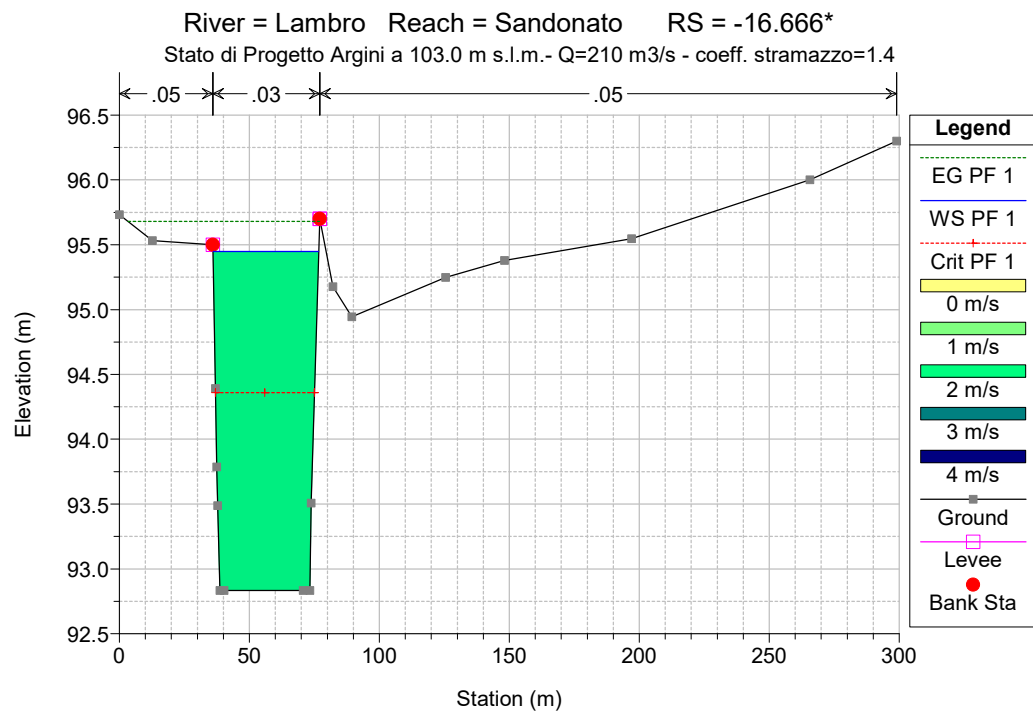
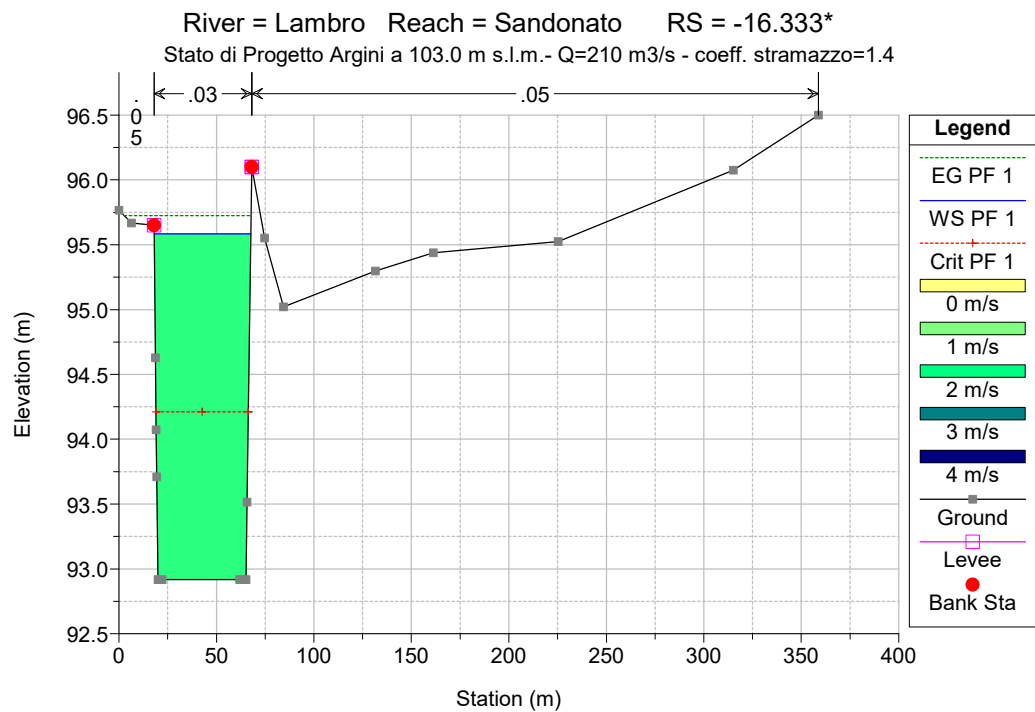


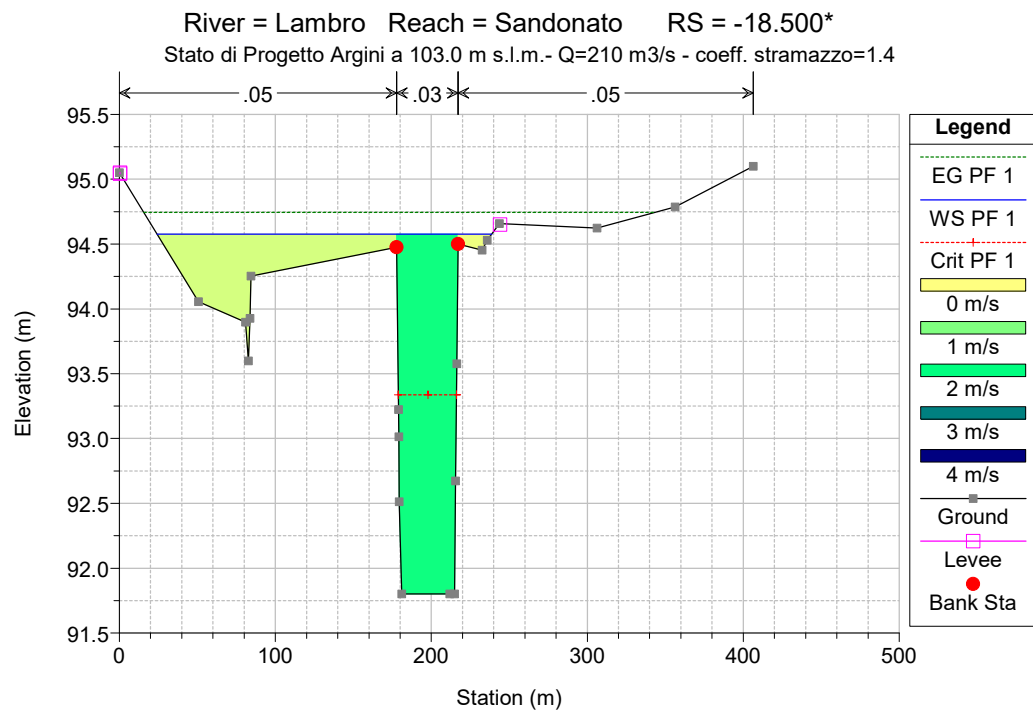
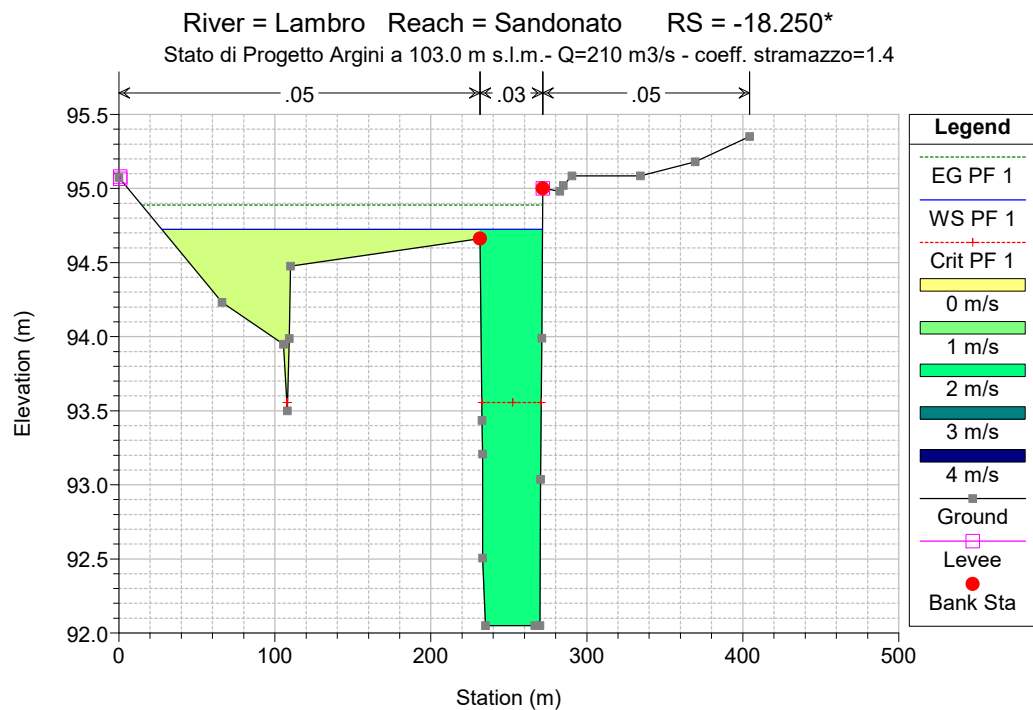
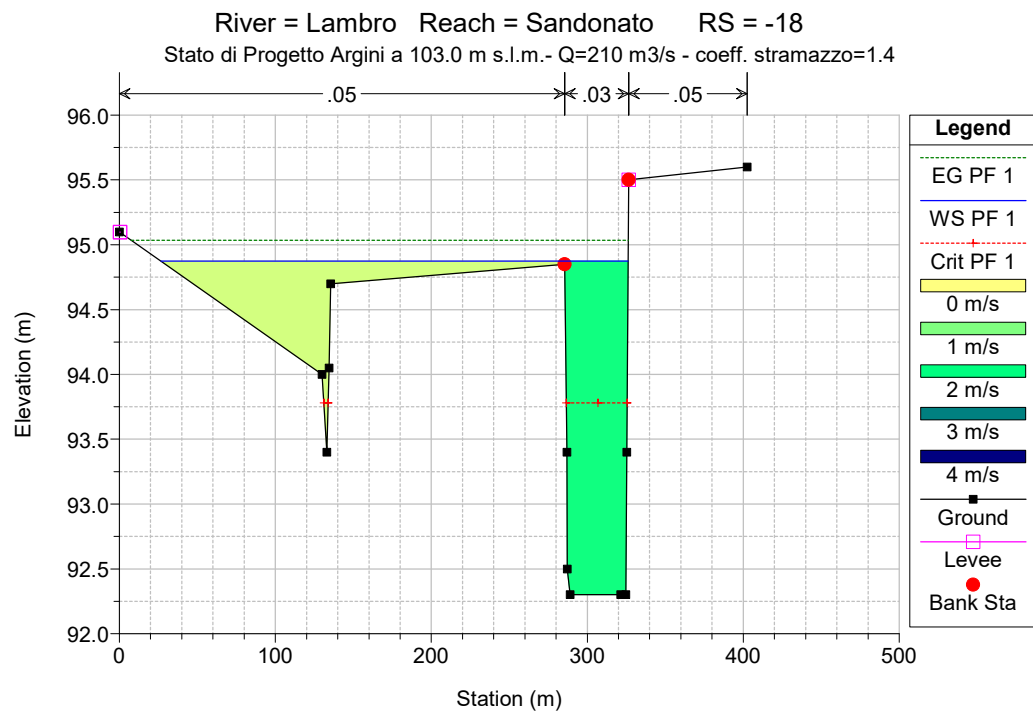
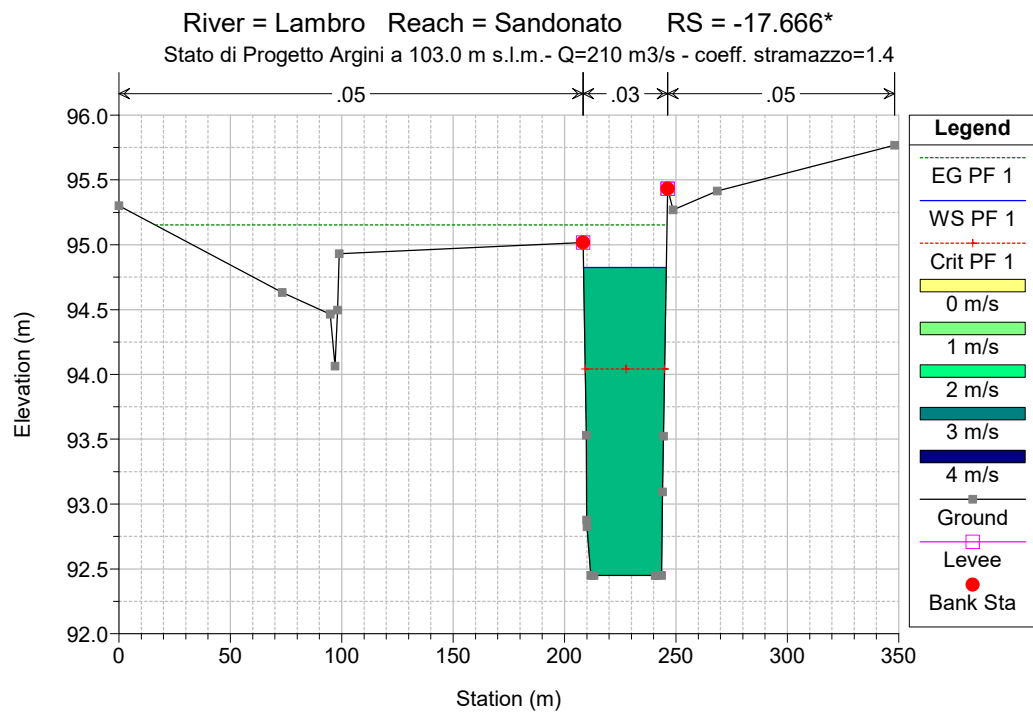


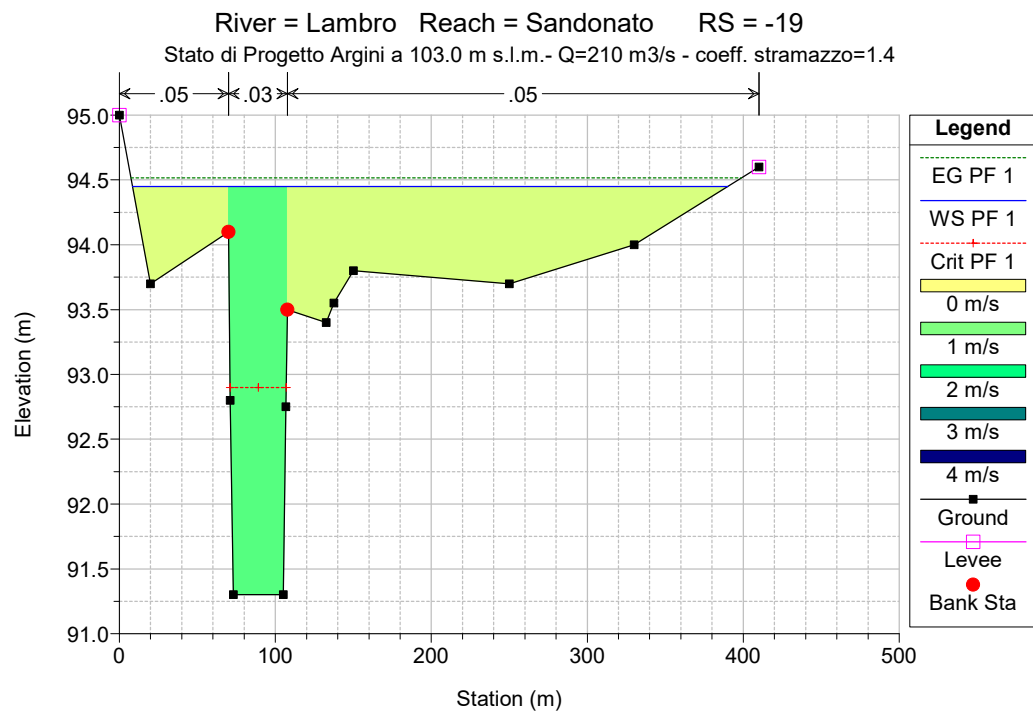
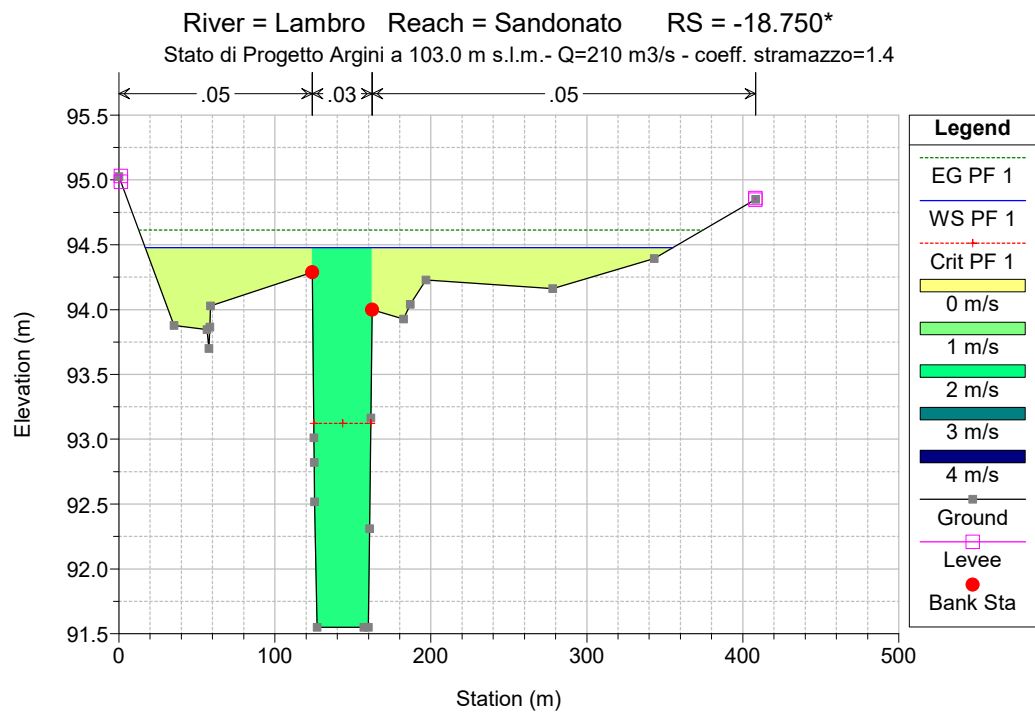












STATO DI PROGETTO CON ARGINI A QUOTA 103.0 m s.l.m.

$$Q = 200 \text{ m}^3/\text{s}$$

Coefficiente di stramazzo nella traversa di Bolgiano pari a 1.4

Stato di Progetto Argini a 103.0 m s.l.m.- Q=210 m3/s - coeff. stramazzo=1.4

