Information du projet

Date 25/02/2021

Description

Titre Digue déversante-Beaugies-sous-Bois (60)

Numéro

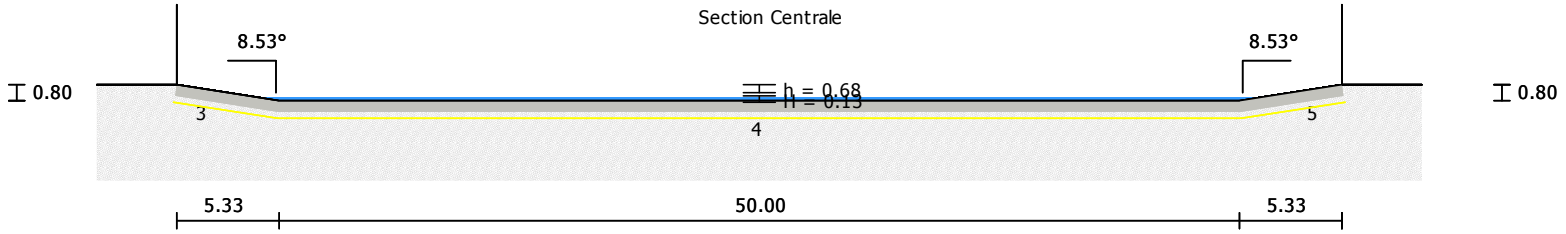
Client

Réalisé par

Données d´entrée

Débit [m³/s]	33.00
Pente Longitudinale [%]	33
Revanche [m]	0.50
Rayon de courbure [m]	-
Côté de la courbure	-

Géométrie du Canal



Résultats

Revanche [m]	0.68	Critère de Revanche Satisfait
Pente Longitudinale [%]	33	
Profondeur d´eau [m]	0.13	
Nombre de Froude	4.79	Régime Torrentiel

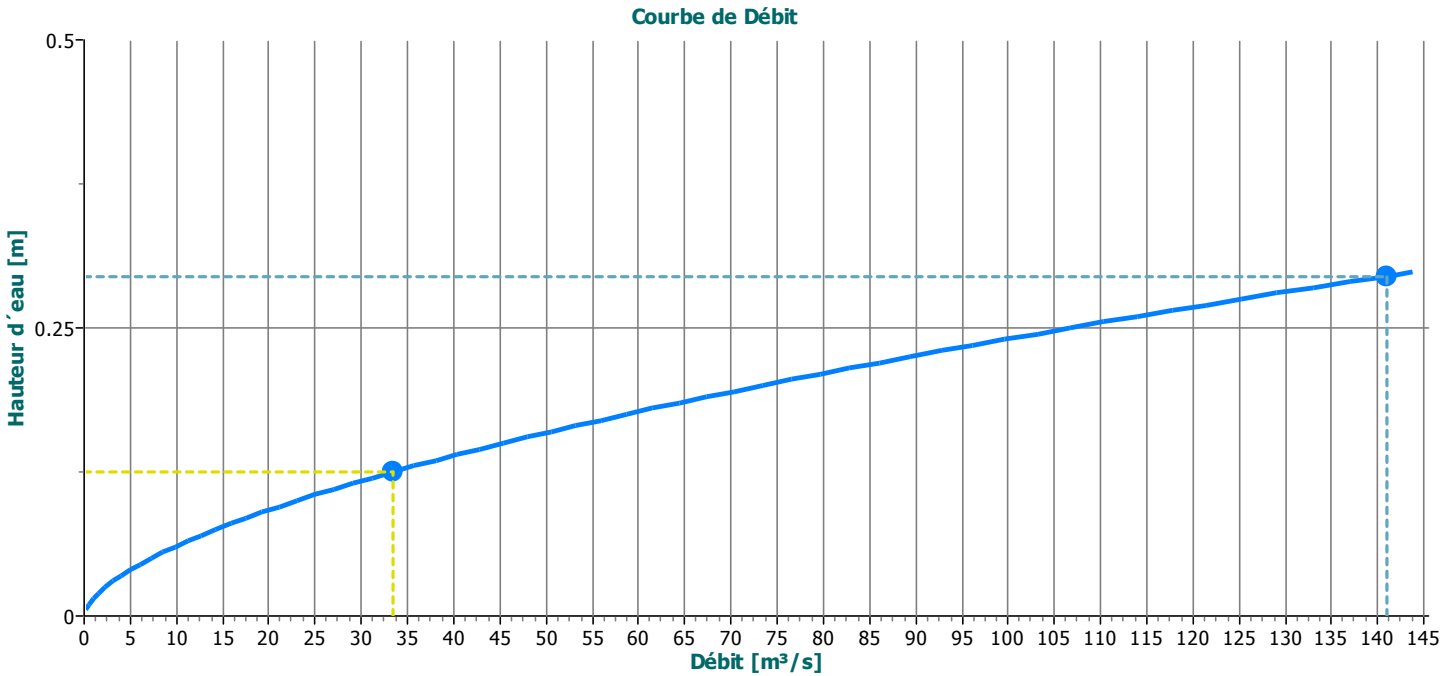
	Total		Lit Mineur	
Débit [m³/s]	33.00		33.00	
Section Aire [m²]	6.35		6.35	
Périmètre mouillé [m]	51.69		51.69	
Rayon hydraulique [m]	0.12		0.12	
Vitesse moyenne [m/s]	5.26		5.26	
Rugosité moyenne	-		0.027	

* Note: the velocity calculated is an average across the sub-section. This value does not represent the effective value on the bottom or on the banks, as they depend on the geometry of the channel and on the roughness of its surface.
(Ven Te Chow, Open-Channel Hydraulics, New York, McGraw-Hill, 1959, pp. 24-29)

Matériaux

ID	Matériaux	Rugosité	Pierre d50 [m]	Cu	Castoro	X-Ties	Géotextile	Temps [h]	Contrainte tangentielle [N/m²] Admissible	Contrainte tangentielle [N/m²] Appliquée		Vitesse sais la protection [m/s]	Longueur [m]
3	**Matelas Reno Plus PoliMac™ 0.3 m**	0.027	0.1	1.5	Oui	Oui	Oui		524.14	304.22	✔	1.3	0.00
4	**Matelas Reno Plus PoliMac™ 0.3 m**	0.027	0.1	1.5	Oui	Oui	Oui		532.00	405.63	✔	1.3	50.00
5	**Matelas Reno Plus PoliMac™ 0.3 m**	0.027	0.1	1.5	Oui	Oui	Oui		524.14	304.22	✔	1.3	5.39

Courbe de Débit



Disclaimer

The hydraulic stability analysis provided by this software assumes a geometry of a prismatic channel and given hydraulic parameters (gradient and discharge). It results do not consider the specific site conditions, such as frequency and duration of the event, variations in the cross section geometry, type of flow regime induced by upstream or downstream reaches. Therefore they should be intended as general indication, aiming to the best use of products selected. It shall be the responsibility of an experienced designer to choose the best solution based on a correct risk assessment of site conditions in regard to all mentioned factors.