



## Introduzir dados

### Projeto

Data : 10.11.2017

### Configurações

Modelo : Modelo 3D

Suavização : intermédia

### Local de construção

Limite ativo : 2,00 m

Profundidade abaixo da sondagem mais profunda : 3,00 m

$x_{min} = 0,00$  m  $x_{max} = 76,00$  m

$y_{min} = 0,00$  m  $y_{max} = 122,00$  m

### Solos

No.	Nome	Padrão	$\gamma$ [kN/m <sup>3</sup> ]	$\nu$ [-]	$E_{def}$ [MPa]
1	silt				
2	sand				
3	clay				
4	gravel				
5	rock				

### Parâmetros do solo

#### silt

Peso volúmico :  $\gamma =$  kN/m<sup>3</sup>

Estado de tensão : efetivo

Ângulo de atrito interno :  $\varphi_{ef} =$  °

Coesão do solo :  $c_{ef} =$  kPa

Coefficiente de Poisson :  $\nu =$

Módulo de deformação :  $E_{def} =$  MPa

Peso volúmico saturado :  $\gamma_{sat} =$  kN/m<sup>3</sup>

#### sand

Peso volúmico :  $\gamma =$  kN/m<sup>3</sup>

Estado de tensão : efetivo

Ângulo de atrito interno :  $\varphi_{ef} =$  °

Coesão do solo :  $c_{ef} =$  kPa

Coefficiente de Poisson :  $\nu =$

Módulo de deformação :  $E_{def} =$  MPa

Peso volúmico saturado :  $\gamma_{sat} =$  kN/m<sup>3</sup>

#### clay

Peso volúmico :  $\gamma =$  kN/m<sup>3</sup>

Estado de tensão : efetivo

Ângulo de atrito interno :  $\varphi_{ef} =$  °

Coesão do solo :  $c_{ef} =$  kPa



Coefficiente de Poisson :  $\nu =$   
Módulo de deformação :  $E_{def} =$  MPa  
Peso volúmico saturado :  $\gamma_{sat} =$  kN/m<sup>3</sup>

#### gravel

Peso volúmico :  $\gamma =$  kN/m<sup>3</sup>  
Estado de tensão : efetivo  
Ângulo de atrito interno :  $\varphi_{ef} =$  °  
Coesão do solo :  $c_{ef} =$  kPa  
Coefficiente de Poisson :  $\nu =$   
Módulo de deformação :  $E_{def} =$  MPa  
Peso volúmico saturado :  $\gamma_{sat} =$  kN/m<sup>3</sup>

#### rock

Peso volúmico :  $\gamma =$  kN/m<sup>3</sup>  
Estado de tensão : efetivo  
Ângulo de atrito interno :  $\varphi_{ef} =$  °  
Coesão do solo :  $c_{ef} =$  kPa  
Coefficiente de Poisson :  $\nu =$   
Módulo de deformação :  $E_{def} =$  MPa  
Peso volúmico saturado :  $\gamma_{sat} =$  kN/m<sup>3</sup>

#### Ensaio de campo

No.	Nome do teste:	Ensaio tipo	Coordenadas			Prof. do 1o ponto d <sub>1</sub> [m]	Prof. total d <sub>tot</sub> [m]
			x [m]	y [m]	z [m]		
1	JV1	Sondagem	0,00	0,00	433,00	0,00	17,70
2	JV1 (2)	Sondagem	0,00	56,00	422,00	0,00	17,00
3	JV1 (3)	Sondagem	18,00	122,00	432,00	0,00	21,00
4	cpt1	CPT	51,00	56,00	427,75	0,00	11,40
5	DP1	DPT	76,00	99,00	432,00	0,00	7,00

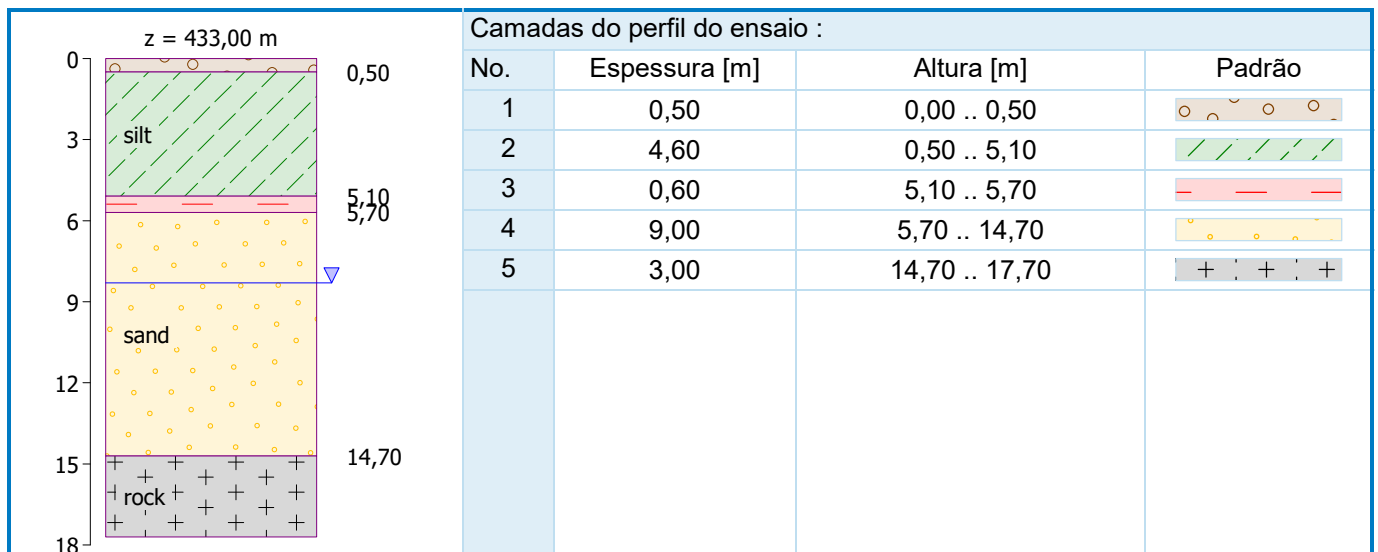
#### Perfis dos ensaios

No.	Nome	Ensaio tipo	Localização		
			x [m]	y [m]	z [m]
1	JV1	Sondagem	0,00	0,00	433,00
2	JV1 (2)	Sondagem	0,00	56,00	422,00
3	JV1 (3)	Sondagem	18,00	122,00	432,00
4	cpt1	CPT	51,00	56,00	427,75
5	DP1	DPT	76,00	99,00	432,00

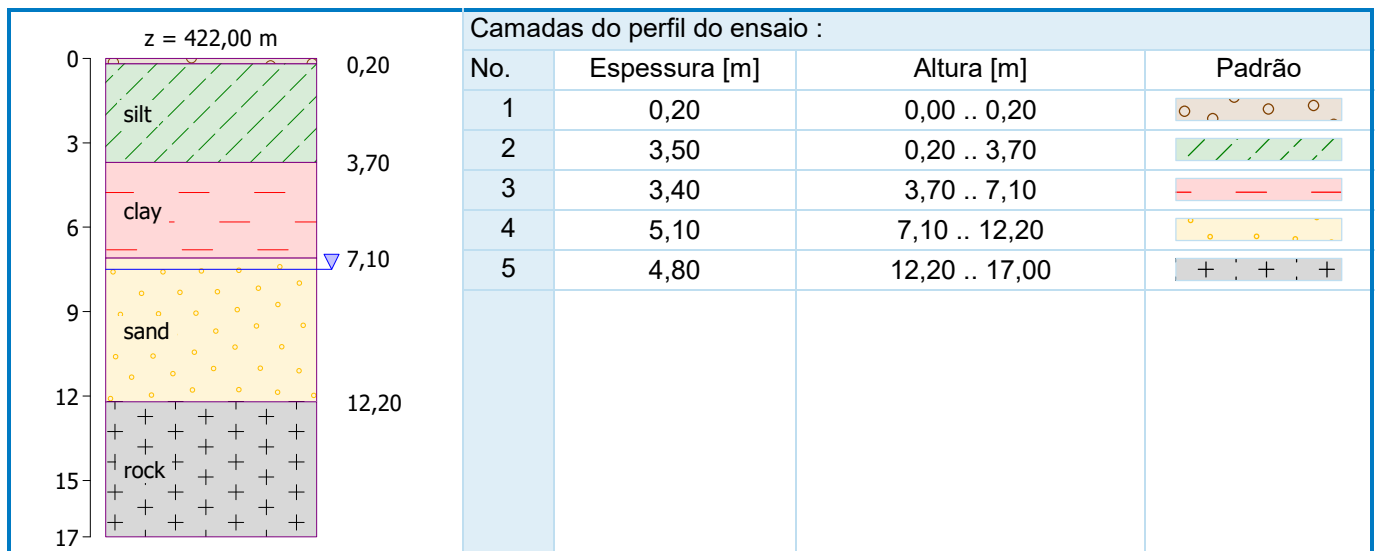
No.	Nome	Altura	Profundidade do nível freático	Perfil
		d <sub>tot</sub> [m]	h <sub>GWT</sub> [m]	estado
1	JV1	17,70	8,30	OK
2	JV1 (2)	17,00	7,50	OK
3	JV1 (3)	21,00	8,30	OK
4	cpt1	11,40	10,00	OK
5	DP1	7,00	6,90	OK



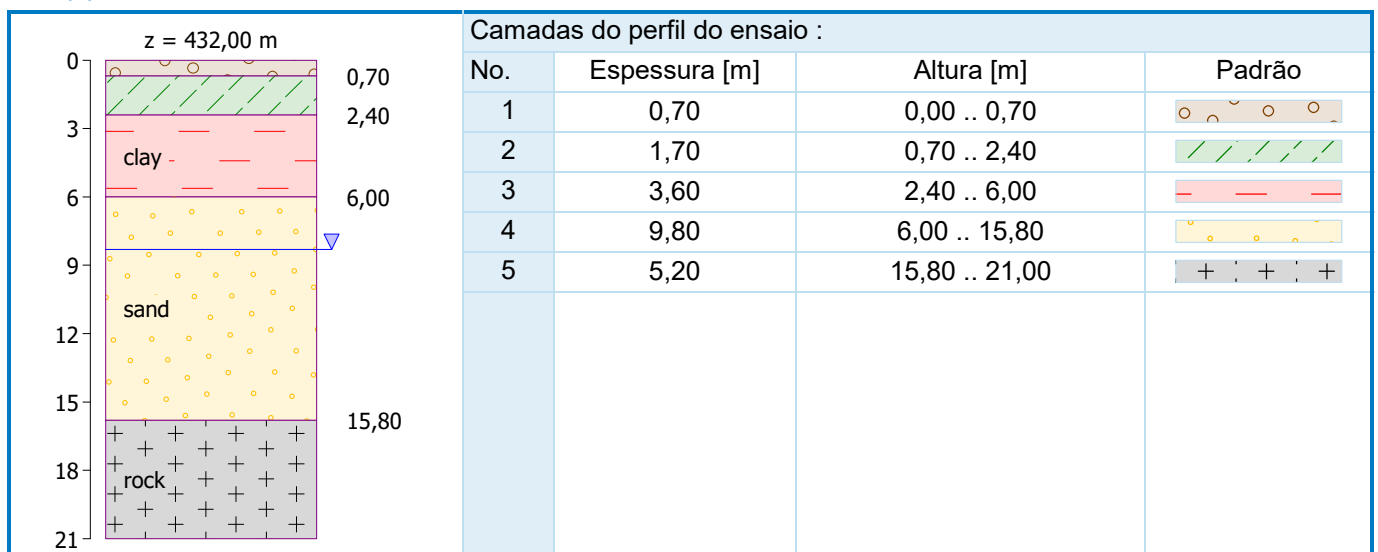
JV1



JV1 (2)

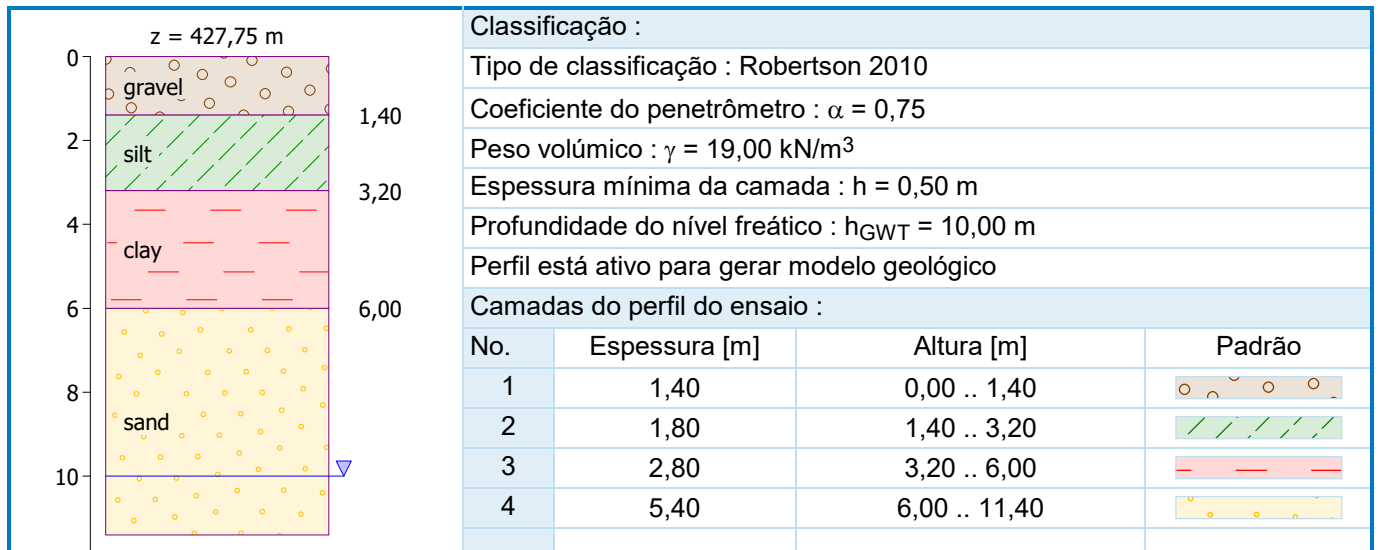


JV1 (3)

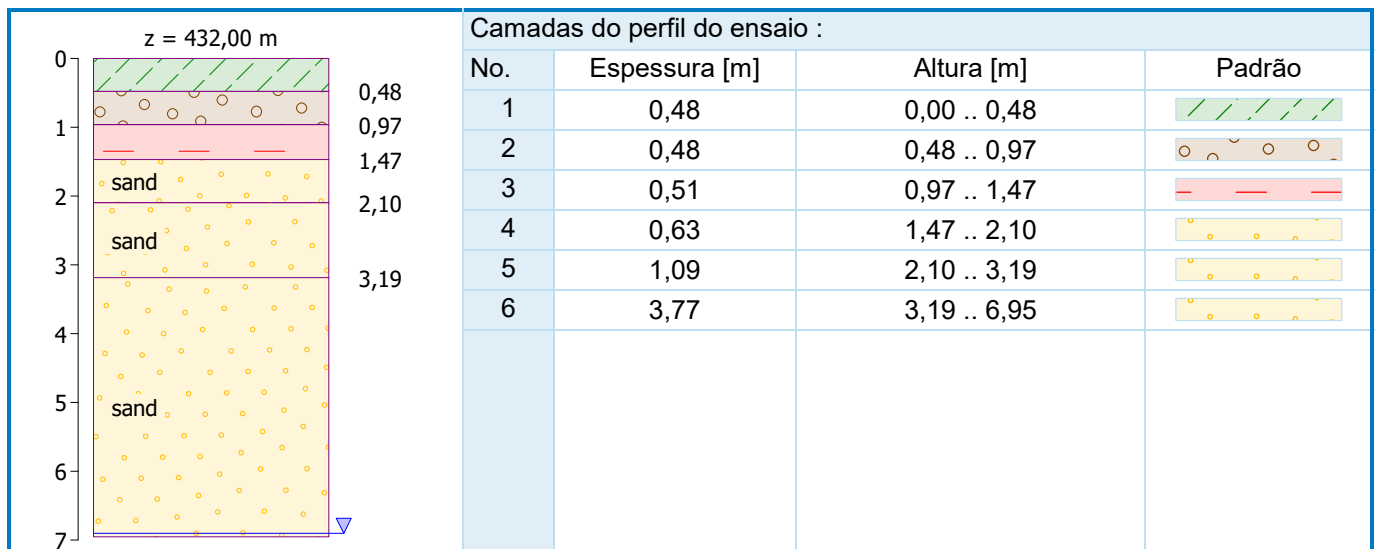




### cpt1



### DP1



### Modelo geológico

No.	Nome	Principal	Ativo	Localização			Profundidade do nível freático $h_{\text{GWT}}$ [m]
				x [m]	y [m]	z [m]	
1	JV1	Sim	Sim	0,00	0,00	433,00	8,30
2	JV1 (2)	Não	Sim	0,00	56,00	422,00	7,50
3	JV1 (3)	Não	Sim	18,00	122,00	432,00	8,30
4	cpt1	Não	Sim	51,00	56,00	427,75	10,00
5	DP1	Não	Sim	76,00	99,00	432,00	6,90
6	N	Não	Sim	25,00	0,00	432,63	8,15

### Perfis geológicos

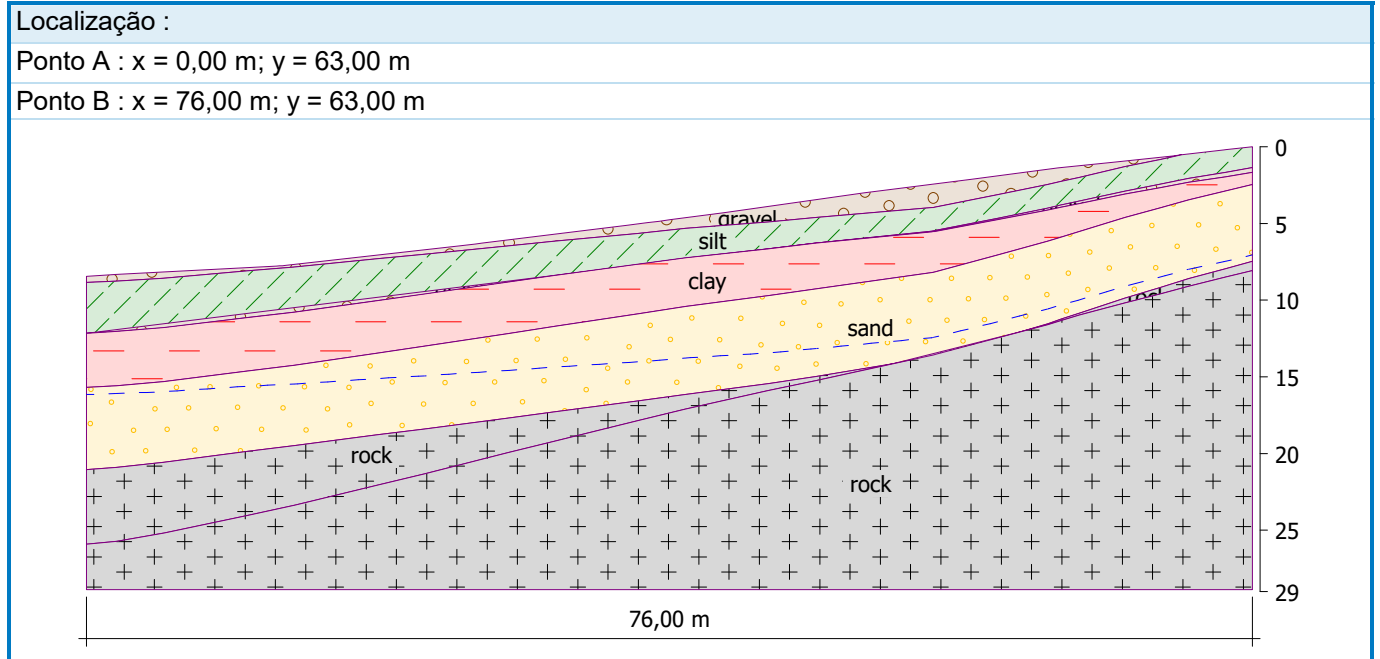
No.	Nome	Localização	
		x [m]	y [m]
1	1	12,00	106,00
2	2	54,00	33,00
3	3	12,00	21,00



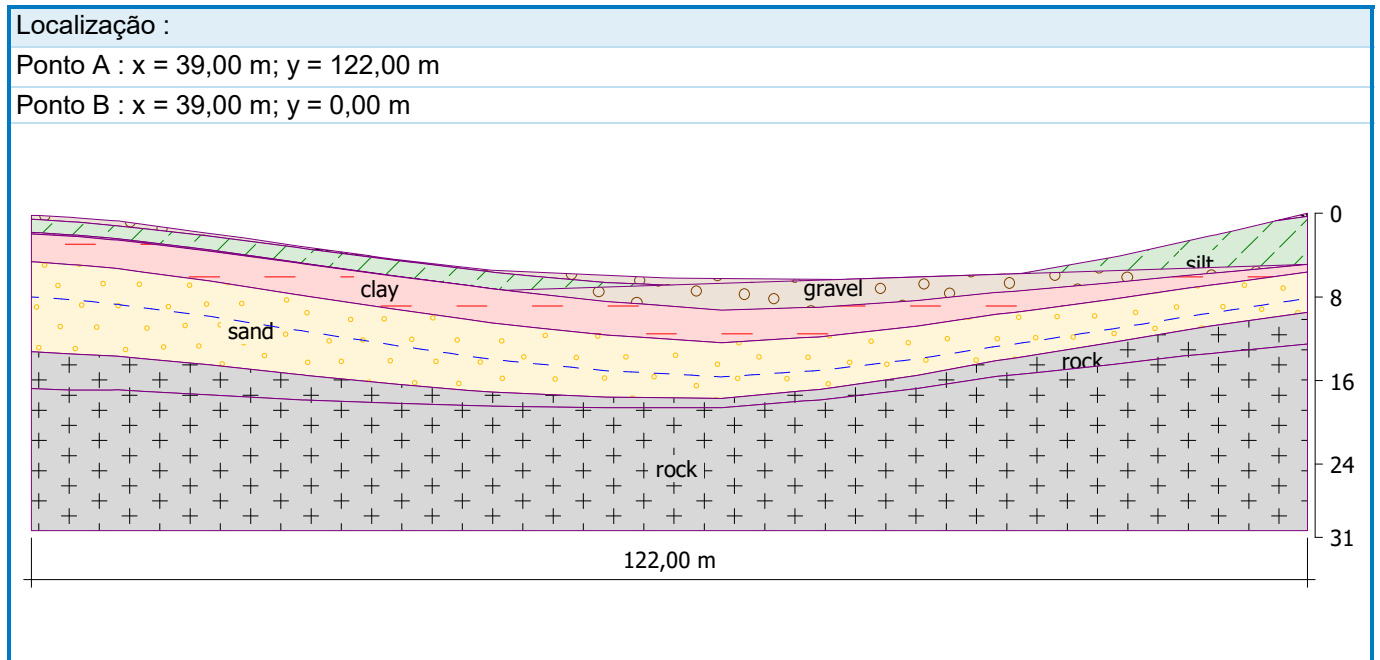
### Secções transversais

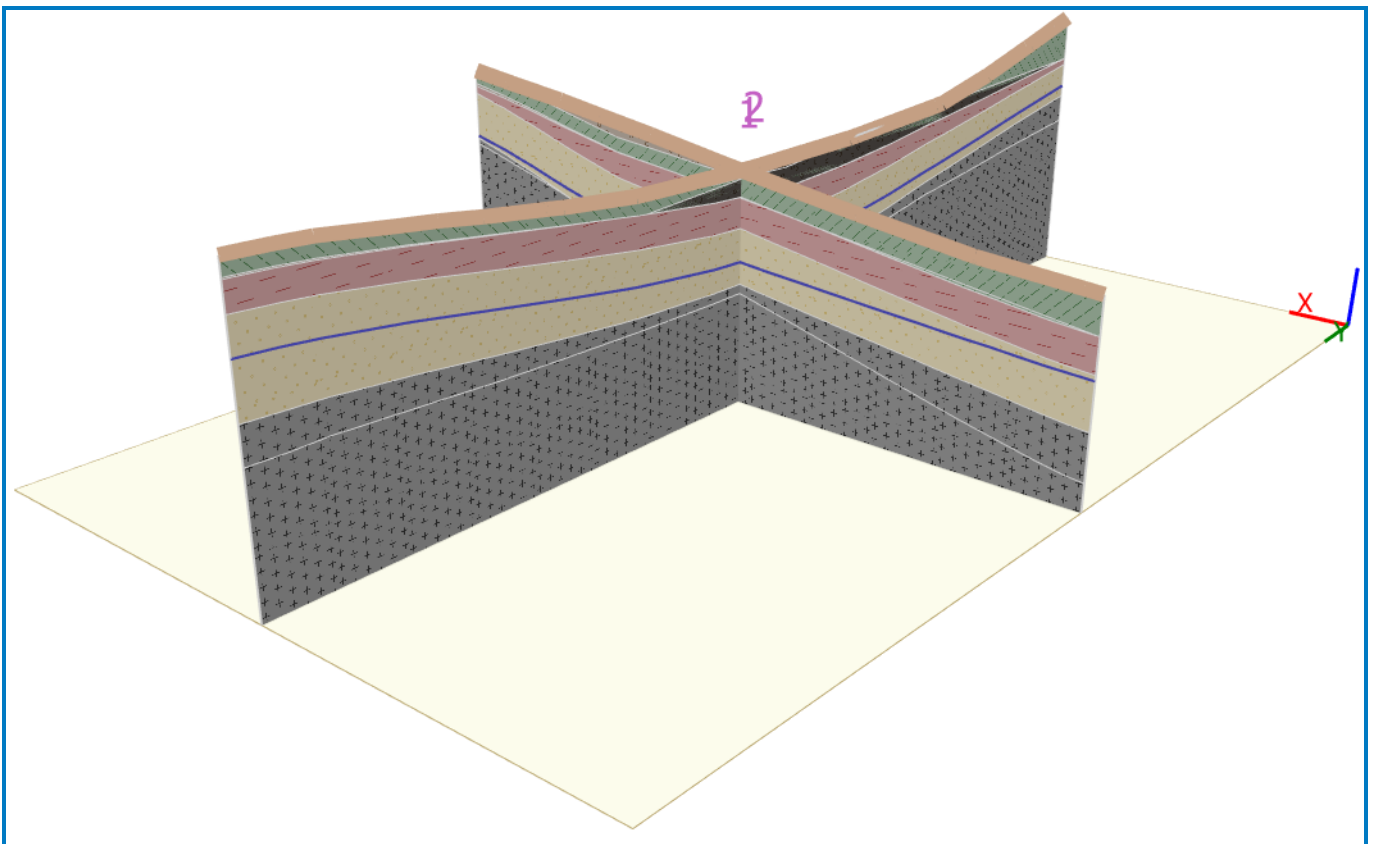
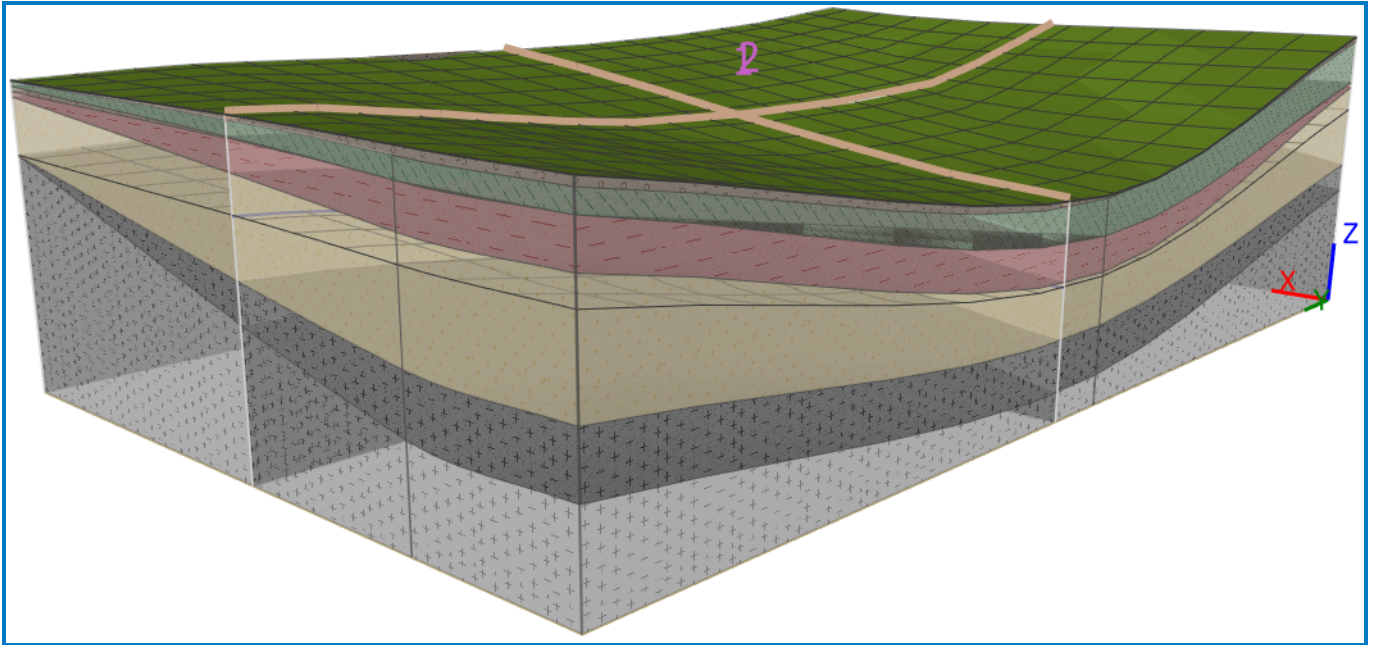
No.	Nome	Ponto A		Ponto B	
		x [m]	y [m]	x [m]	y [m]
1	cs1	0,00	63,00	76,00	63,00
2	cs 2	39,00	122,00	39,00	0,00

#### cs1



#### cs 2



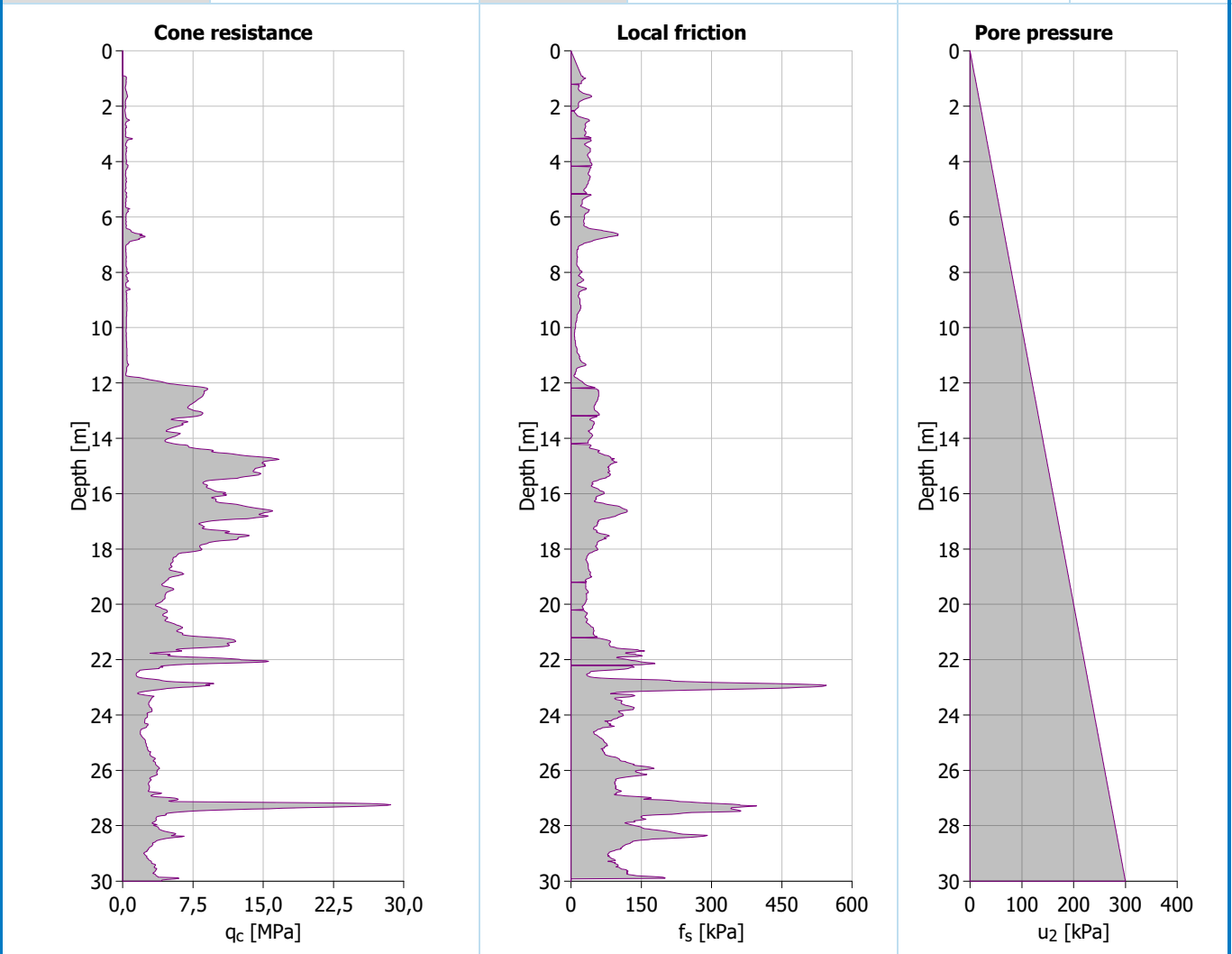




### Log of Field Test CPT 0,00

<b>Task :</b>	Site exploration, project New West investment 2020	
<b>Part :</b>	Field tests and borehole documentation	
<b>Description :</b>	Boreholes for geological model creation	
<b>Customer :</b>	PF Beta Investment	
<b>Project Type :</b>	Detailed project documentation	X = 1,10 m      Y = 2,20 m
<b>Project ID :</b>	AH PPI2017	Z = -0,96 m (calculated)
<b>Project number :</b>	12789/082017	Coord. Syst.      JTSK/Balt.s.
<b>Carried Out By :</b>	Drilling CZ s.r.o. (geological survey division)	<b>Drilling Foreman :</b> James Good
<b>Start Date :</b>	11.10.2017	<b>Reported By :</b> Bill Monroe
<b>End Date :</b>	12.10.2017	<b>Evaluated By :</b> Flint Wood
<b>Equipment Type :</b>	heavy penetration machine Gouda Holland, push. capacity 200 kN	<b>Supervised By :</b> Owen Jameson
<b>Technology :</b>	mechanical tip, discontinuous borehole	

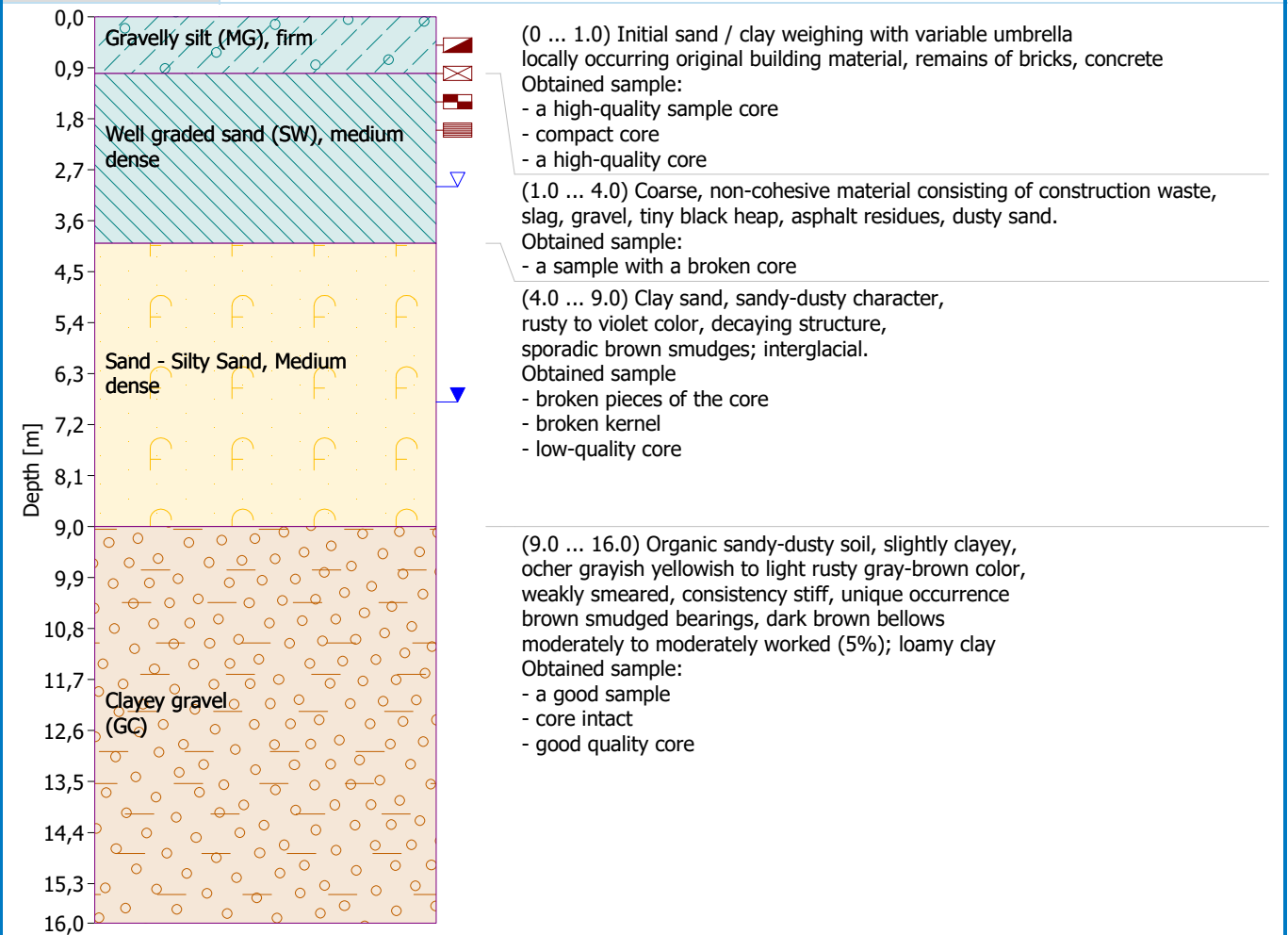
**Depth :** 30,00 m      **Scale :** -





## Log of Borehole Vrt 0,00; GV\_2

<b>Task :</b>	Site exploration, project New West investment 2020			
<b>Part :</b>	Field tests and borehole documentation			
<b>Description :</b>	Boreholes for geological model creation			
<b>Customer :</b>	PF Beta Investment			
<b>Project Type :</b>	Detailed project documentation	X = 20,00 m	Y = 20,00 m	
<b>Project ID :</b>	AH PPI2017		Z = 15,00 m (input)	
<b>Project number :</b>	12789/082017		Coord. Syst.	JTSK/Balt.
<b>Carried Out By :</b>	Drilling CZ	<b>Borehole Diameter :</b>	0 ... 2 m -- 200 mm	<b>Drilling Foreman :</b> John Good
<b>Start Date :</b>	09.10.2017		2 ... 6 m -- 150 mm	<b>Reported By :</b> Bill Fine
<b>End Date :</b>	10.10.2017		6 ... 8 m -- 120 mm	<b>Evaluated By :</b> Fredy Steel
<b>Equipment Type :</b>	UDEGA II	<b>Casing Diameter :</b>	0 ... 2 m -- 240 mm	<b>Supervised By :</b> Owen Master
<b>Technology :</b>	core borehole		2 ... 8 m -- 200 mm	
<b>Drill Type :</b>			6/8" Roller	
<b>Depth :</b>	16,00 m	<b>Scale :</b>	-	
<b>Original GWT</b>	3,00 m			
<b>Static GWT</b>	6,80 m			



(0 ... 1.0) Initial sand / clay weighing with variable umbrella locally occurring original building material, remains of bricks, concrete  
 Obtained sample:  
 - a high-quality sample core  
 - compact core  
 - a high-quality core

(1.0 ... 4.0) Coarse, non-cohesive material consisting of construction waste, slag, gravel, tiny black heap, asphalt residues, dusty sand.  
 Obtained sample:  
 - a sample with a broken core

(4.0 ... 9.0) Clay sand, sandy-dusty character, rusty to violet color, decaying structure, sporadic brown smudges; interglacial.  
 Obtained sample  
 - broken pieces of the core  
 - broken kernel  
 - low-quality core

(9.0 ... 16.0) Organic sandy-dusty soil, slightly clayey, ocher grayish yellowish to light rusty gray-brown color, weakly smeared, consistency stiff, unique occurrence brown smudged bearings, dark brown bellows moderately to moderately worked (5%); loamy clay  
 Obtained sample:  
 - a good sample  
 - core intact  
 - good quality core

- GWT driven
- GWT steady
- disturb
- technological
- strength
- leach