



Input data

Project

Date : 10.11.2017

Settings

Model : 3D Model

Smoothing : intermediate

Construction Site

Active border : 2,00 m

Depth below the deepest borehole : 3,00 m

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

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

Soils

No.	Name	Pattern	γ [kN/m ³]	ν [-]	E_{def} [MPa]
1	silt				
2	sand				
3	clay				
4	gravel				
5	rock				

Soil parameters

silt

Unit weight : $\gamma =$ kN/m³

Stress-state : effective

Angle of internal friction : $\varphi_{ef} =$ °

Cohesion of soil : $c_{ef} =$ kPa

Poisson's ratio : $\nu =$

Deformation modulus : $E_{def} =$ MPa

Saturated unit weight : $\gamma_{sat} =$ kN/m³

sand

Unit weight : $\gamma =$ kN/m³

Stress-state : effective

Angle of internal friction : $\varphi_{ef} =$ °

Cohesion of soil : $c_{ef} =$ kPa

Poisson's ratio : $\nu =$

Deformation modulus : $E_{def} =$ MPa

Saturated unit weight : $\gamma_{sat} =$ kN/m³

clay

Unit weight : $\gamma =$ kN/m³

Stress-state : effective

Angle of internal friction : $\varphi_{ef} =$ °

Cohesion of soil : $c_{ef} =$ kPa



Poisson's ratio : $\nu =$
Deformation modulus : $E_{\text{def}} =$ MPa
Saturated unit weight : $\gamma_{\text{sat}} =$ kN/m³

gravel

Unit weight : $\gamma =$ kN/m³
Stress-state : effective
Angle of internal friction : $\phi_{\text{ef}} =$ °
Cohesion of soil : $c_{\text{ef}} =$ kPa
Poisson's ratio : $\nu =$
Deformation modulus : $E_{\text{def}} =$ MPa
Saturated unit weight : $\gamma_{\text{sat}} =$ kN/m³

rock

Unit weight : $\gamma =$ kN/m³
Stress-state : effective
Angle of internal friction : $\phi_{\text{ef}} =$ °
Cohesion of soil : $c_{\text{ef}} =$ kPa
Poisson's ratio : $\nu =$
Deformation modulus : $E_{\text{def}} =$ MPa
Saturated unit weight : $\gamma_{\text{sat}} =$ kN/m³

Field Tests

No.	Name of test:	Test type	Coordinates			Depth of the 1st point d_1 [m]	Overall depth d_{tot} [m]
			x [m]	y [m]	z [m]		
1	JV1	borehole	0,00	0,00	433,00	0,00	17,70
2	JV1 (2)	borehole	0,00	56,00	422,00	0,00	17,00
3	JV1 (3)	borehole	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

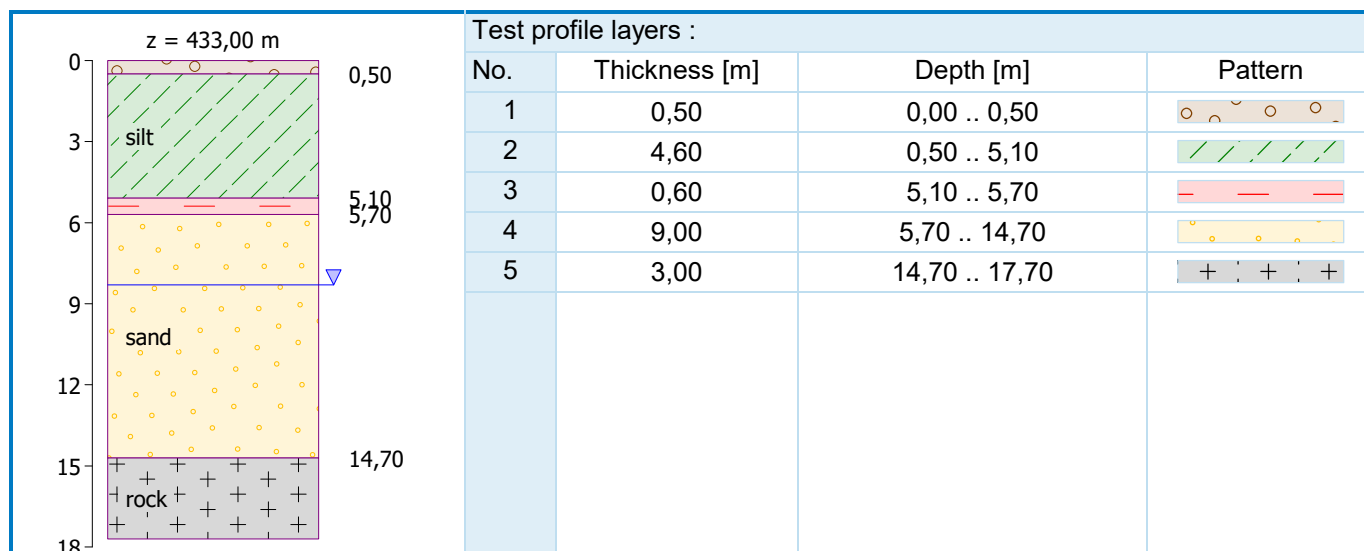
Test Profiles

No.	Name	Test type	Location		
			x [m]	y [m]	z [m]
1	JV1	borehole	0,00	0,00	433,00
2	JV1 (2)	borehole	0,00	56,00	422,00
3	JV1 (3)	borehole	18,00	122,00	432,00
4	cpt1	CPT	51,00	56,00	427,75
5	DP1	DPT	76,00	99,00	432,00

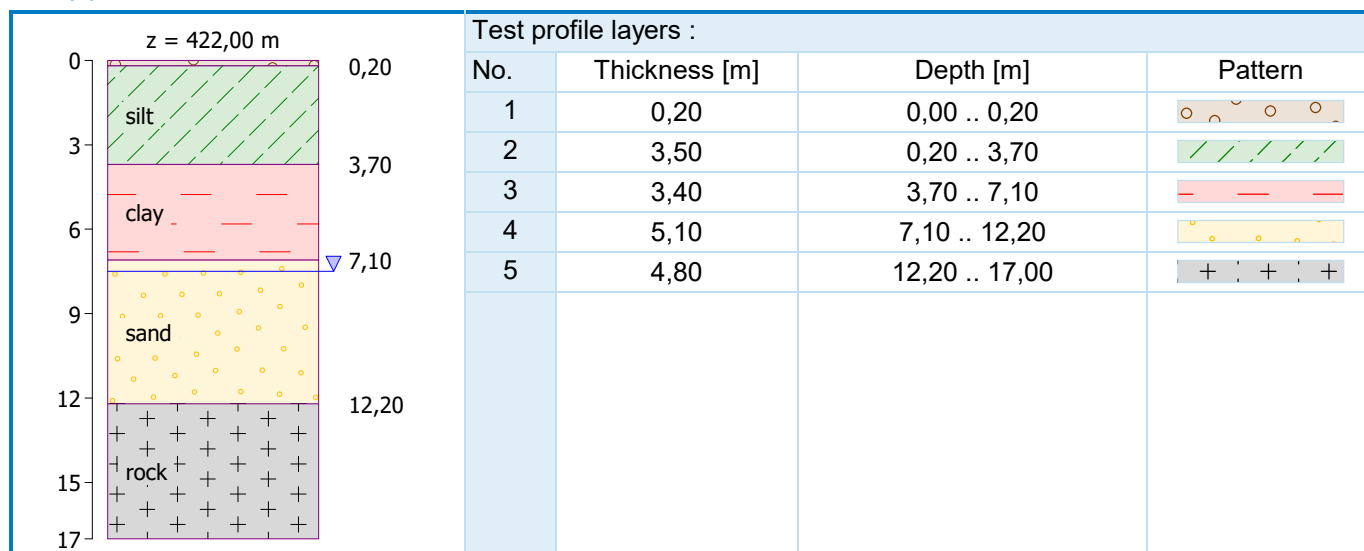
No.	Name	Depth d_{tot} [m]	GWT depth h_{GWT} [m]	Profile state
1	JV1	17,70	8,30	OK
2	JV1 (2)	17,00	7,50	OK
3	JV1 (3)	21,00	8,30	OK
4	cpt1	11,40	10,00	OK
5	DP1	7,00	6,90	OK



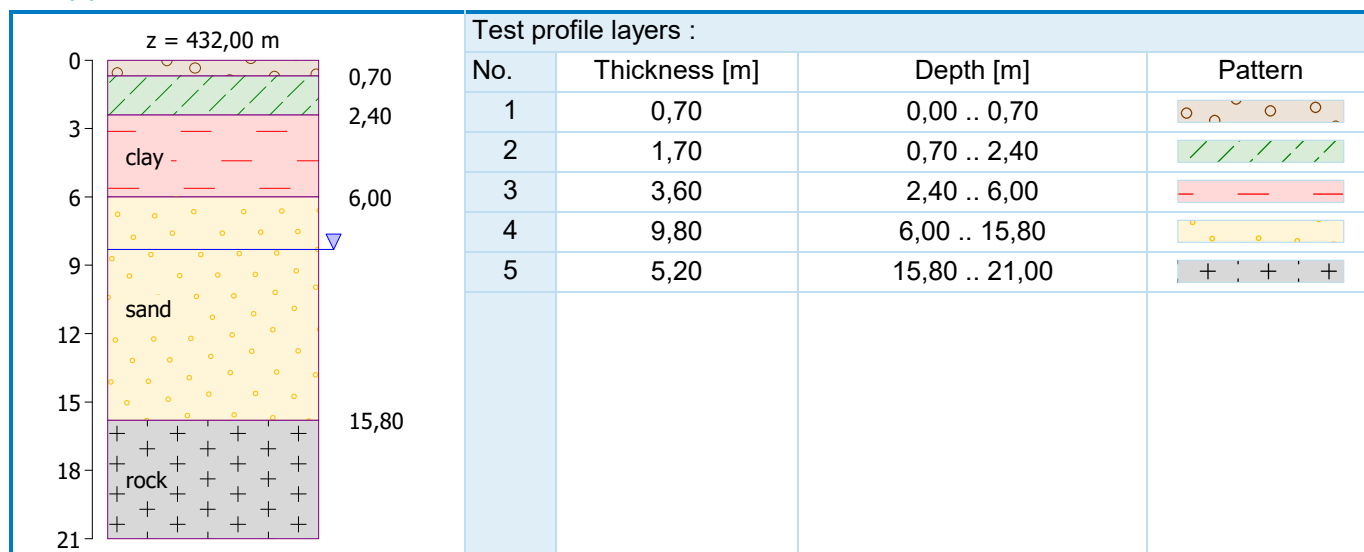
JV1



JV1 (2)

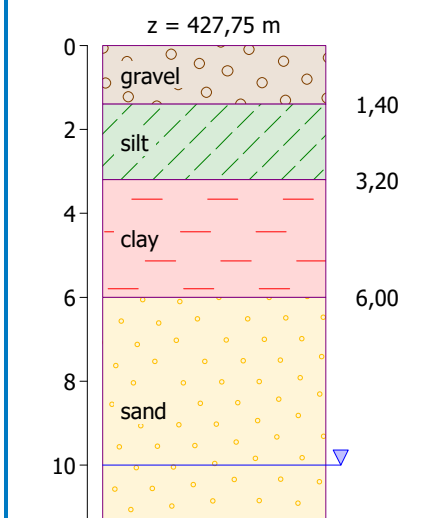
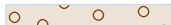
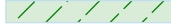
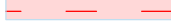
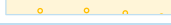
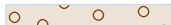
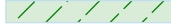
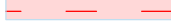
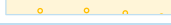
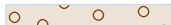
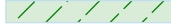
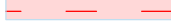
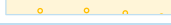


JV1 (3)

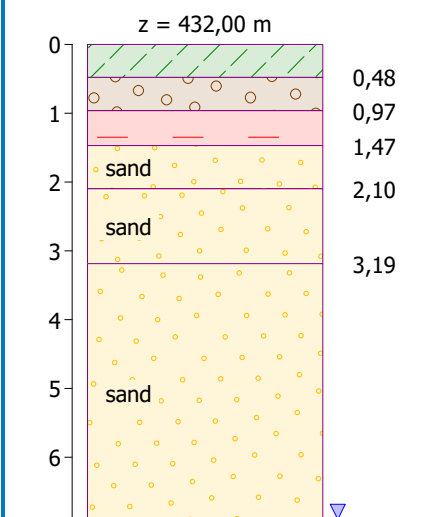




cpt1

z = 427,75 m 		Classification :																					
		Classification type : Robertson 2010																					
		Penetrometer net area ratio : $\alpha = 0,75$																					
		Unit weight : $\gamma = 19,00 \text{ kN/m}^3$																					
		Minimum thickness of layer : $h = 0,50 \text{ m}$																					
		GWT depth : $h_{\text{GWT}} = 10,00 \text{ m}$																					
		Profile is active for geological model generation																					
		Test profile layers :																					
		<table><thead><tr><th>No.</th><th>Thickness [m]</th><th>Depth [m]</th><th>Pattern</th></tr></thead><tbody><tr><td>1</td><td>1,40</td><td>0,00 .. 1,40</td><td></td></tr><tr><td>2</td><td>1,80</td><td>1,40 .. 3,20</td><td></td></tr><tr><td>3</td><td>2,80</td><td>3,20 .. 6,00</td><td></td></tr><tr><td>4</td><td>5,40</td><td>6,00 .. 11,40</td><td></td></tr></tbody></table>	No.	Thickness [m]	Depth [m]	Pattern	1	1,40	0,00 .. 1,40		2	1,80	1,40 .. 3,20		3	2,80	3,20 .. 6,00		4	5,40	6,00 .. 11,40		
No.	Thickness [m]	Depth [m]	Pattern																				
1	1,40	0,00 .. 1,40																					
2	1,80	1,40 .. 3,20																					
3	2,80	3,20 .. 6,00																					
4	5,40	6,00 .. 11,40																					

DP1

	Test profile layers :			
	No.	Thickness [m]	Depth [m]	Pattern
	1	0,48	0,00 .. 0,48	
	2	0,48	0,48 .. 0,97	
	3	0,51	0,97 .. 1,47	
	4	0,63	1,47 .. 2,10	
	5	1,09	2,10 .. 3,19	
	6	3,77	3,19 .. 6,95	

Geological Model

No.	Name	Master	Active	x [m]	Location y [m]	z [m]	GWT depth h_{GWT} [m]
1	JV1	Yes	Yes	0,00	0,00	433,00	8,30
2	JV1 (2)	No	Yes	0,00	56,00	422,00	7,50
3	JV1 (3)	No	Yes	18,00	122,00	432,00	8,30
4	cpt1	No	Yes	51,00	56,00	427,75	10,00
5	DP1	No	Yes	76,00	99,00	432,00	6,90
6	N	No	Yes	25,00	0,00	432,63	8,15

Output Profiles

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



Cross Sections

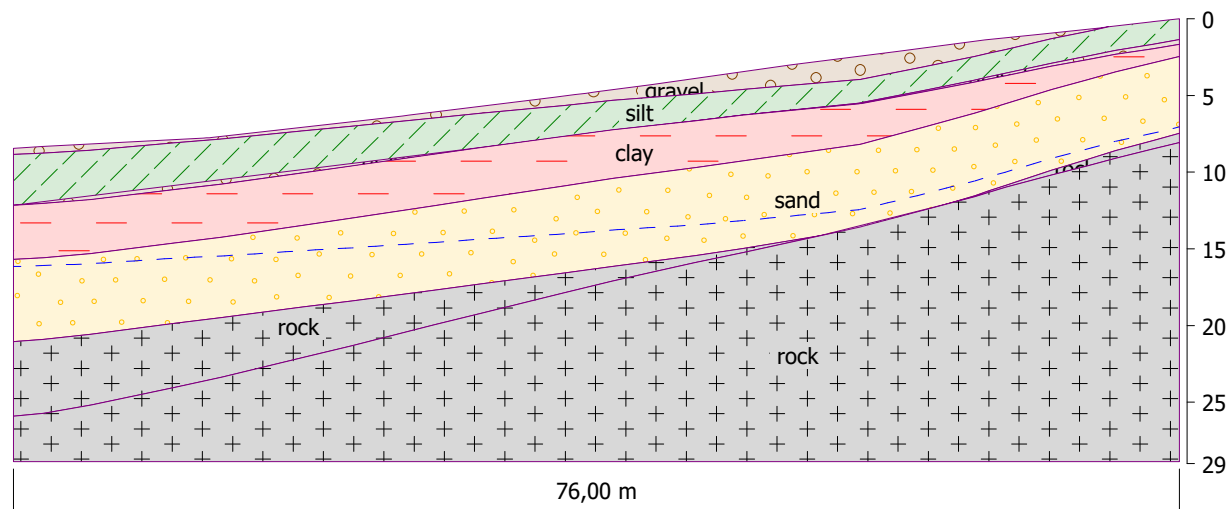
No.	Name	Point A		Point B	
		x [m]	y [m]	x [m]	y [m]
1	cs1	0,00	63,00	76,00	63,00
2	cs 2	39,00	122,00	39,00	0,00

cs1

Location :

Point A : x = 0,00 m; y = 63,00 m

Point B : x = 76,00 m; y = 63,00 m

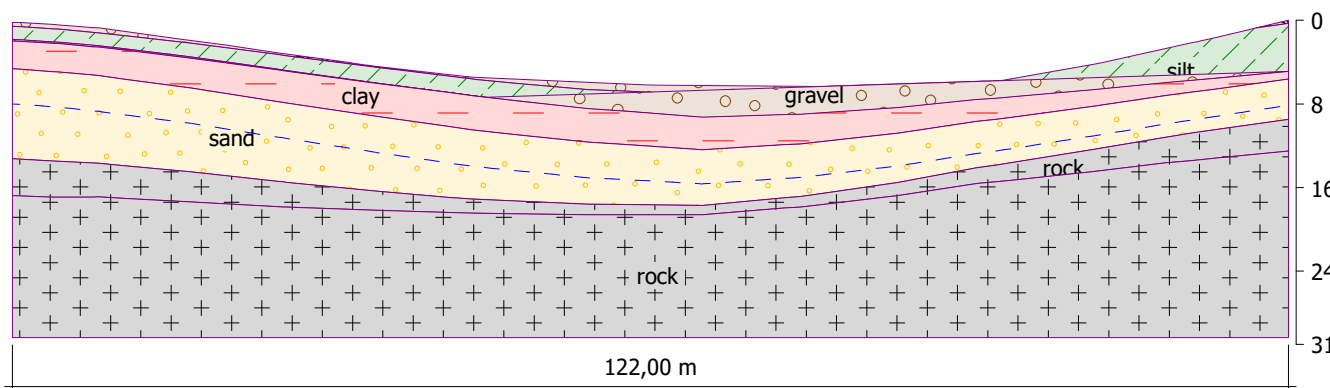


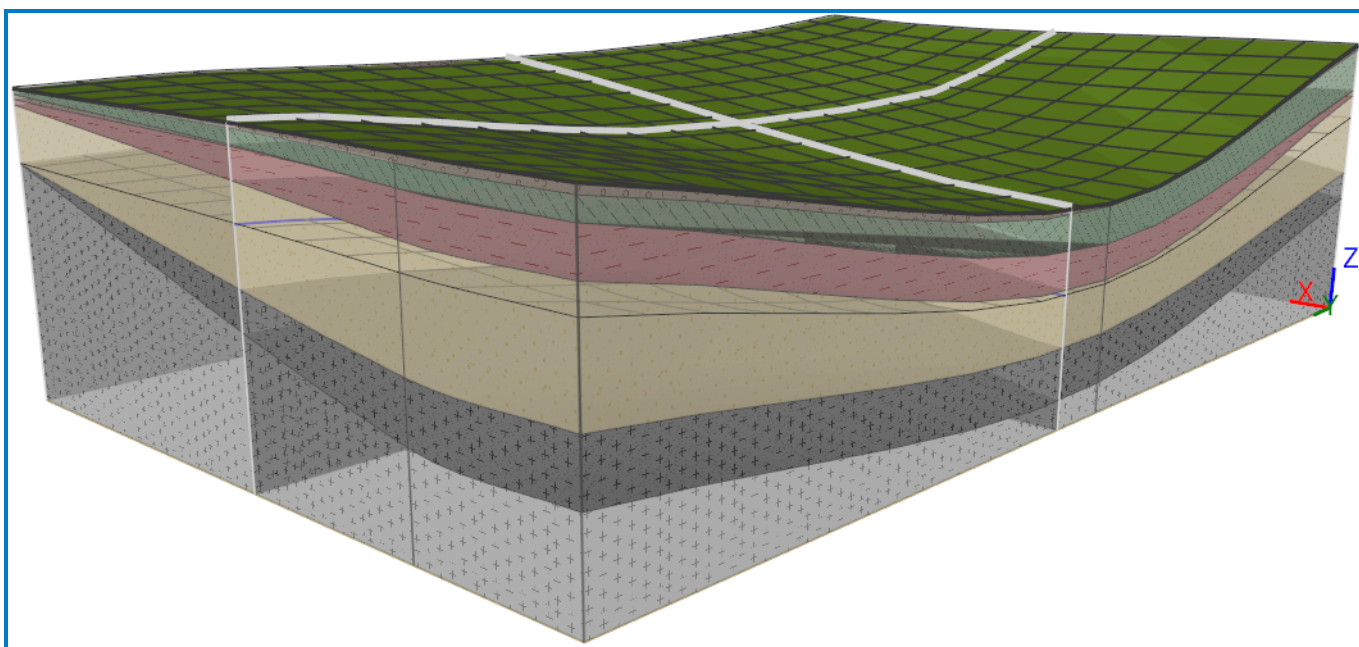
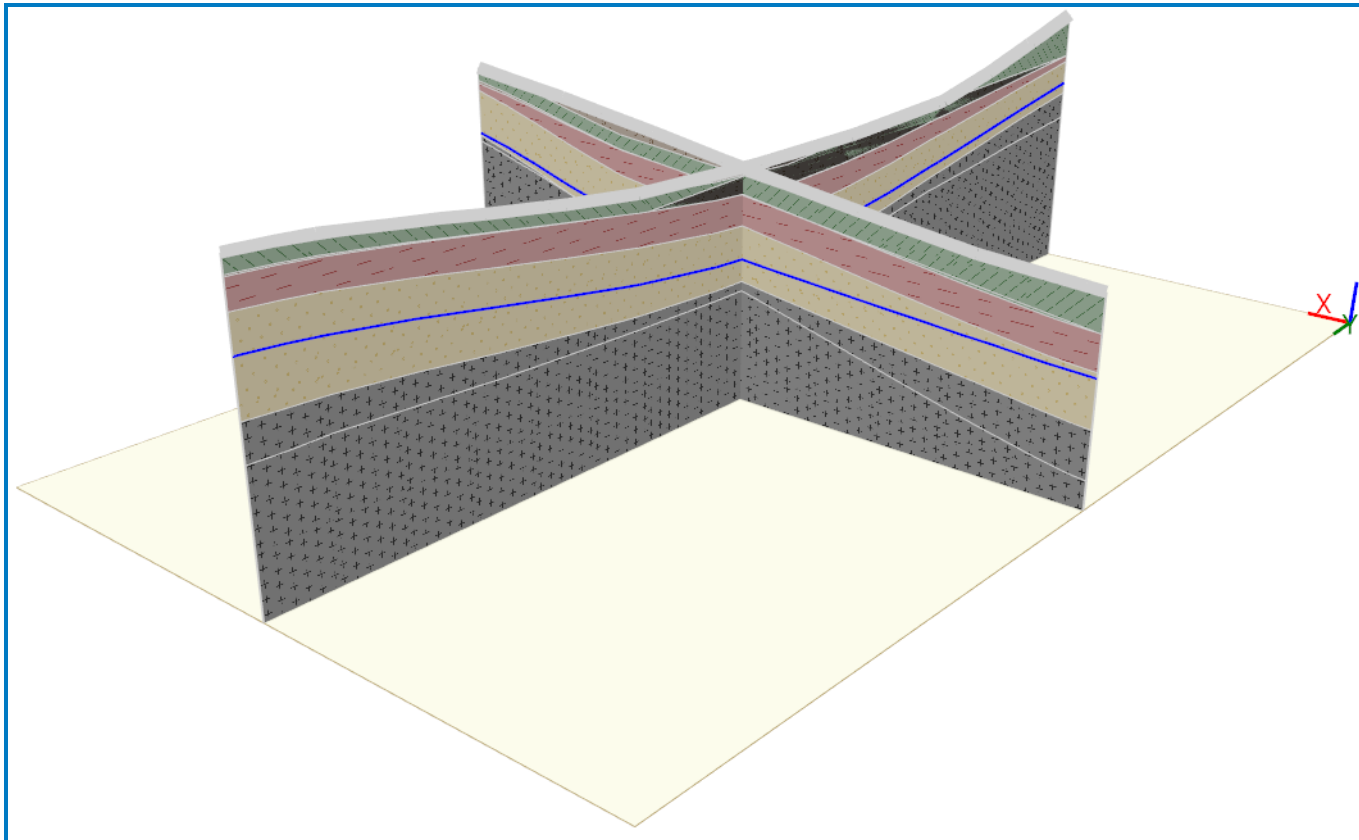
cs 2

Location :

Point A : x = 39,00 m; y = 122,00 m

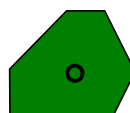
Point B : x = 39,00 m; y = 0,00 m

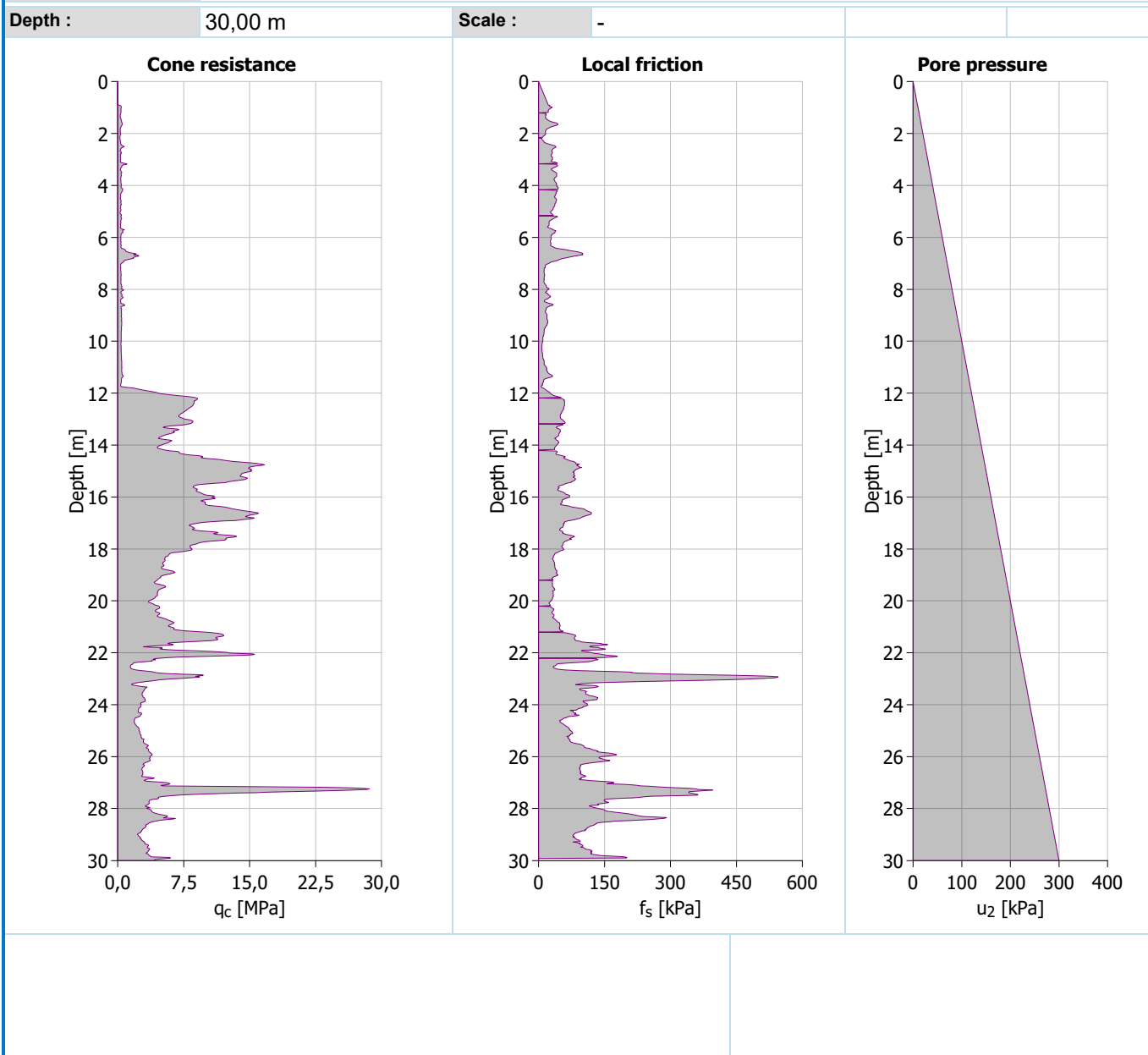






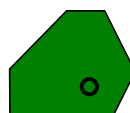
Log of Field Test CPT 0,00

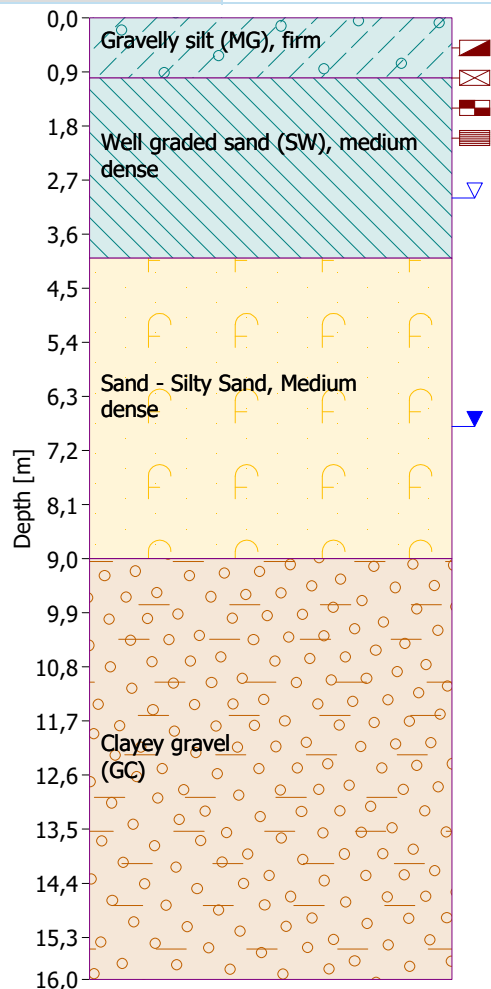
Task :	Site exploration, project New West investment 2020		
Part :	Field tests and borehole documentation		
Description :	Boreholes for geological model creation		
Customer :	PF Beta Investment		
Project Type :	Detailed project documentation	X = 1,10 m	Y = 2,20 m
Project ID :	AH PPI2017	Z = -0,96 m (calculated)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





Log of Borehole Vrt 0,00; GV_2

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