

Odränerad analys, nulägesanalys, nedre slänt

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File Information

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Date: [2010-12-11](#)
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File Name: [34700WUS.gsz](#)
Directory: [V:_UPPDRAG\224784\Teknik\Delområde 1-10\Delområde 4-14084\Geoteknik\Beräkningar\Sektion 18\](#)
Last Solved Date: [2010-12-11](#)
Last Solved Time: [10:26:52](#)

Project Settings

Length(L) Units: [meters](#)
Time(t) Units: [Seconds](#)
Force(F) Units: [kN](#)
Pressure(p) Units: [kPa](#)
Strength Units: [kPa](#)
Unit Weight of Water: [9.807 kN/m³](#)
View: [2D](#)

Analysis Settings

Odränerad analys, nulägesanalys, nedre slänt

Description: [V34/700 odränerad analys Uppsprucken torrskorpa, 50% vattenfyllda sprickor](#)
Kind: [SLOPE/W](#)
Method: [Morgenstern-Price](#)
Settings
 Side Function
 Interslice force function option: [Half-Sine](#)
 PWP Conditions Source: [Pressure Head Spatial Function](#)
 Pressure Head Spatial Fn.: [Nulägesanalys](#)
Slip Surface
 Direction of movement: [Right to Left](#)
 Use Passive Mode: [No](#)
 Slip Surface Option: [Entry and Exit](#)
 Critical slip surfaces saved: [20](#)
 Optimize Critical Slip Surface Location: [Yes](#)
Tension Crack
 Tension Crack Option: [Tension Crack Line](#)

Percentage Wet: 0.5

Tension Crack Fluid Unit Weight: 9.807 kN/m³

FOS Distribution

FOS Calculation Option: Constant

Advanced

Number of Slices: 30

Optimization Tolerance: 0.01

Minimum Slip Surface Depth: 4 m

Optimization Maximum Iterations: 2000

Optimization Convergence Tolerance: 1e-007

Starting Optimization Points: 8

Ending Optimization Points: 16

Complete Passes per Insertion: 1

Driving Side Maximum Convex Angle: 5 °

Resisting Side Maximum Convex Angle: 1 °

Materials

Crust ud

Model: $S=f(\text{depth})$

Unit Weight: 18 kN/m³

C-Top of Layer: 30 kPa

C-Rate of Change: 0 kPa/m

Limiting C: 0 kPa

Clay 1 ud

Model: $S=f(\text{depth})$

Unit Weight: 17.3 kN/m³

C-Top of Layer: 15 kPa

C-Rate of Change: 1 kPa/m

Limiting C: 19 kPa

Clay 2 ud

Model: $S=f(\text{depth})$

Unit Weight: 16.4 kN/m³

C-Top of Layer: 19 kPa

C-Rate of Change: 0 kPa/m

Limiting C: 19 kPa

Clay 3 ud

Model: $S=f(\text{depth})$

Unit Weight: 17.3 kN/m³

C-Top of Layer: 15 kPa

C-Rate of Change: 1.22 kPa/m

Limiting C: 19.88 kPa

Clay 4 ud

Model: $S=f(\text{depth})$

Unit Weight: 16.4 kN/m³

C-Top of Layer: 26 kPa

C-Rate of Change: 0 kPa/m
Limiting C: 26 kPa

Clay 5 ud

Model: $S=f(\text{datum})$
Unit Weight: 17.8 kN/m³
C-Datum: 15 kPa
C-Rate of Change: 3.43 kPa/m
Limiting C: 27 kPa
Elevation: 4 m

Clay 7 ud

Model: $S=f(\text{datum})$
Unit Weight: 17.3 kN/m³
C-Datum: 35 kPa
C-Rate of Change: 1.08 kPa/m
Limiting C: 42 kPa
Elevation: -3.5 m

Clay 8 ud

Model: $S=f(\text{datum})$
Unit Weight: 17.3 kN/m³
C-Datum: 42 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 42 kPa
Elevation: -10 m

Friction

Model: Mohr-Coulomb
Unit Weight: 22 kN/m³
Unit Wt. Above Water Table: 20 kN/m³
Cohesion: 0 kPa
Phi: 38 °
Phi-B: 0 °

Clay 9 ud

Model: $S=f(\text{datum})$
Unit Weight: 16.5 kN/m³
C-Datum: 42 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 42 kPa
Elevation: -13 m

Clay 12 ud älv

Model: $S=f(\text{depth})$
Unit Weight: 16 kN/m³
C-Top of Layer: 12 kPa
C-Rate of Change: 3 kPa/m
Limiting C: 0 kPa

Clay 11 ud

Model: $S=f(\text{depth})$
Unit Weight: 16.4 kN/m^3
C-Top of Layer: 19.88 kPa
C-Rate of Change: 1.22 kPa/m
Limiting C: 26 kPa

Clay 10 ud

Model: $S=f(\text{datum})$
Unit Weight: 16 kN/m^3
C-Datum: 42 kPa
C-Rate of Change: 0 kPa/m
Limiting C: 42 kPa
Elevation: -20 m

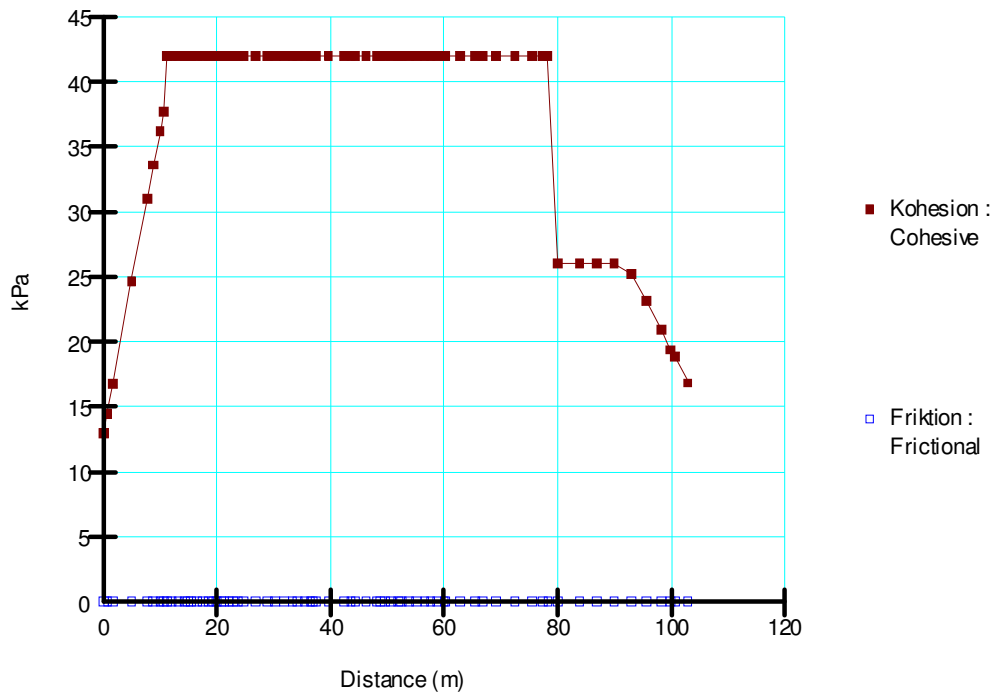
Sand

Model: Mohr-Coulomb
Unit Weight: 20 kN/m^3
Unit Wt. Above Water Table: 18 kN/m^3
Cohesion: 0 kPa
Phi: 34°
Phi-B: 0°

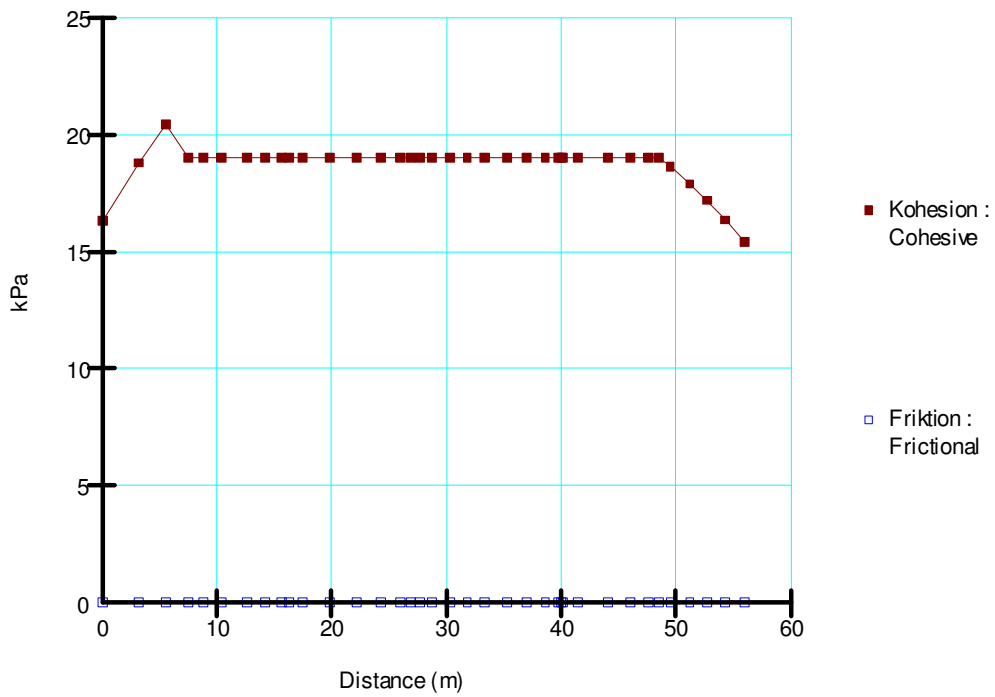
Strandskoning

Model: Mohr-Coulomb
Unit Weight: 21 kN/m^3
Unit Wt. Above Water Table: 18 kN/m^3
Cohesion: 0 kPa
Phi: 40°
Phi-B: 0°

Nedre slänten



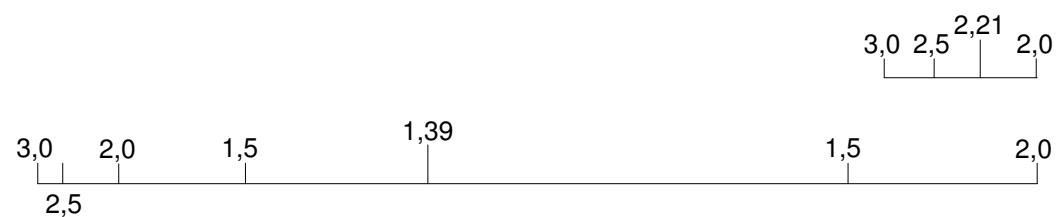
Övre slänten





Skala 1:800 (A3)
Leveransdatum 2011-03-31

Göta älv utredningen 2009-2012
SEKTION: V34/700 odränerad analys
Uppsprucken torrskorpa, 50% vattenfyllda sprickor
Beräkningsmodell: Morgenstern-Price
Metod: Entry and Exit
Portrycksmodell: Pressure Head Spatial Function
Datum: 2010-12-11



Nivå för yttre vattenstånd -0,14 [m]

