

Odränerad analys, nulägesanalys, söder 1

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File Information

Created By: [Karlström, Hanna](#)
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Directory: [V:_UPPDRAG\224784\Teknik\Delområde 1-10\Delområde 4-14084\Geoteknik\Beräkningar\Sektion 25\V31_150A\](#)
Last Solved Date: [2011-04-05](#)
Last Solved Time: [10:29:02](#)

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, söder 1

Description: [V31/150A 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: 0.1 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: 30 kPa

Clay 1 ud

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

Unit Weight: 15.7 kN/m³

C-Datum: 16 kPa

C-Rate of Change: 0 kPa/m

Limiting C: 16 kPa

Elevation: 12 m

Clay 2 ud

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

Unit Weight: 15.7 kN/m³

C-Datum: 16 kPa

C-Rate of Change: 1.25 kPa/m

Limiting C: 26 kPa

Elevation: 7 m

Clay 3 ud

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

Unit Weight: 16 kN/m³

C-Datum: 26 kPa

C-Rate of Change: 1.44 kPa/m

Limiting C: 39 kPa

Elevation: -1 m

Clay 4 ud

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

Unit Weight: 16 kN/m^3

C-Datum: 39 kPa

C-Rate of Change: 1.2 kPa/m

Limiting C: 45 kPa

Elevation: -10 m

Clay 5 ud älv

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

Unit Weight: 15 kN/m^3

C-Top of Layer: 5 kPa

C-Rate of Change: 8.91 kPa/m

Limiting C: 0 kPa

Friction

Model: Mohr-Coulomb

Unit Weight: 22 kN/m^3

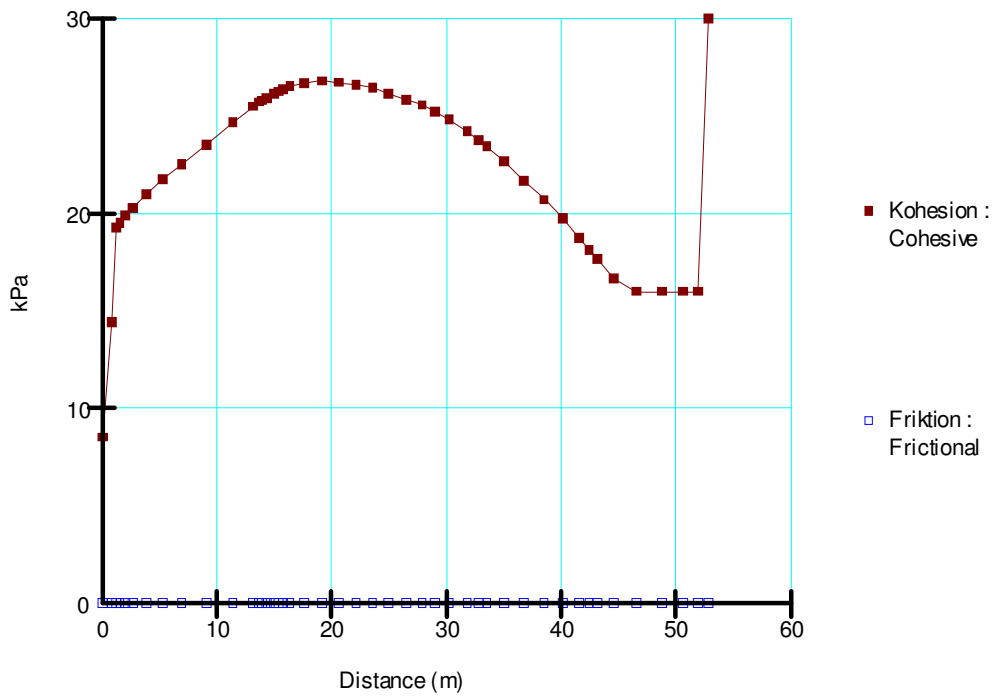
Unit Wt. Above Water Table: 20 kN/m^3

Cohesion: 0 kPa

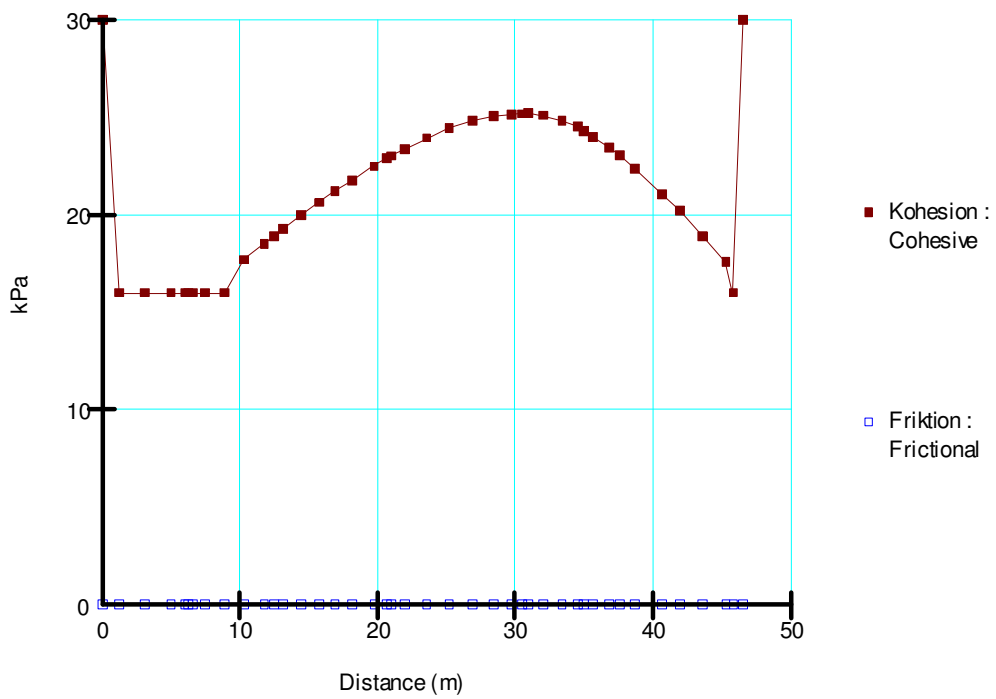
Phi: 38°

Phi-B: 0°

Södra slänten



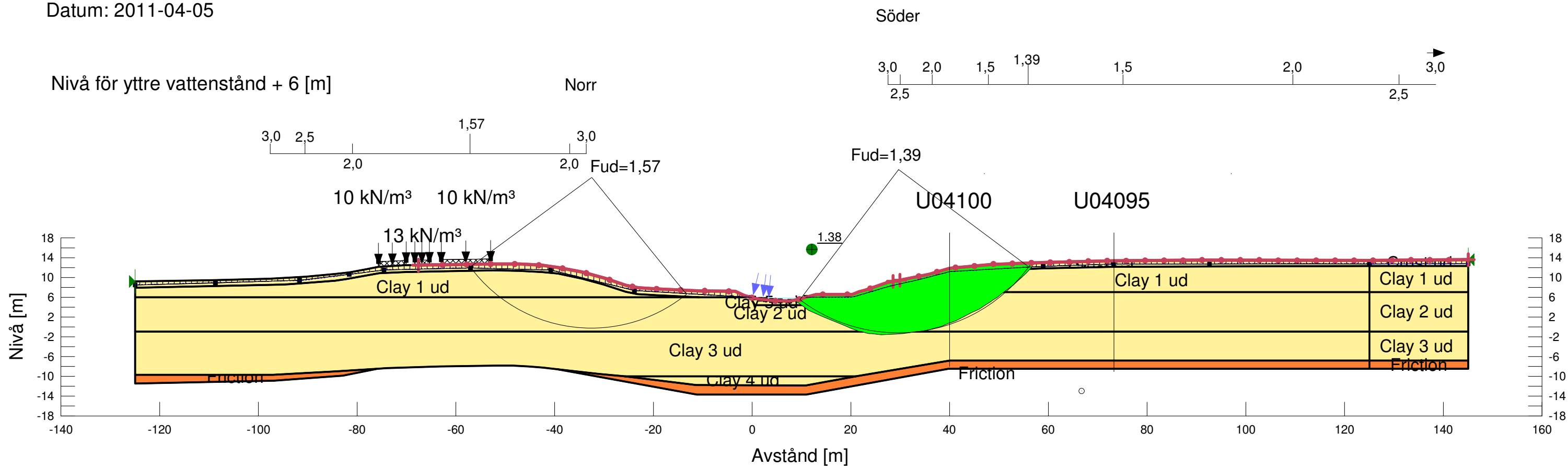
Norra slänten





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

Göta älv utredningen 2009-2012
SEKTION: V31/150A odränerad analys
Uppsprucken torrskorpa, 50% vattenfyllda sprickor
Beräkningsmodell: Morgenstern-Price
Metod: Entry and Exit
Portrycksmodell: Pressure Head Spatial Function
Datum: 2011-04-05



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Granskad av: Mats Ekenberg