

Kombinerad analys

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File Information

Created By: Saad Jamil
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File Name: 43850WKS.gsz
Directory: V:_UPPDRAG\224784\Teknik\Delområde 1-10\Delområde 4-14084\Geoteknik\Beräkningar\Sektion 4 V43_850\
Last Solved Date: 2011-04-05
Last Solved Time: 09:11:18

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

Kombinerad analys, befintliga förhållanden, nulägesanalys

Description: V43/850 kombinerad analys
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: (none)
FOS Distribution
 FOS Calculation Option: Constant
Advanced

Number of Slices: 30
 Optimization Tolerance: 0.01
 Minimum Slip Surface Depth: 0.5 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 co

Model: Combined, $S=f(\text{depth})$
 Unit Weight: 18 kN/m³
 Phi: 30 °
 C-Top of Layer: 0 kPa
 C-Rate of Change: 0 kPa/m
 Cu-Top of Layer: 30 kPa
 Cu-Rate of Change: 0 kPa/m
 C/Cu Ratio: 0.1

Filling

Model: Mohr-Coulomb
 Unit Weight: 20 kN/m³
 Unit Wt. Above Water Table: 18 kN/m³
 Cohesion: 0 kPa
 Phi: 35 °
 Phi-B: 0 °

Clay 1 co

Model: Combined, $S=f(\text{datum})$
 Unit Weight: 18 kN/m³
 Phi: 30 °
 C-Datum: 0 kPa
 C-Rate of Change: 0 kPa/m
 Cu-Datum: 14 kPa
 Cu-Rate of Change: 0 kPa/m
 C/Cu Ratio: 0.1
 Elevation: 2 m

Clay 2 co

Model: Combined, $S=f(\text{datum})$
 Unit Weight: 16.6 kN/m³
 Phi: 30 °
 C-Datum: 0 kPa
 C-Rate of Change: 0 kPa/m
 Cu-Datum: 14 kPa

Cu-Rate of Change: 1.4 kPa/m
C/Cu Ratio: 0.1
Elevation: -3.5 m

Clay 3 co

Model: Combined, $S=f(\text{datum})$
Unit Weight: 16.6 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 30 kPa
Cu-Rate of Change: 0.52 kPa/m
C/Cu Ratio: 0.1
Elevation: -15 m

Clay 4 co

Model: Combined, $S=f(\text{depth})$
Unit Weight: 16.3 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 15 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Clay 5 co

Model: Combined, $S=f(\text{depth})$
Unit Weight: 15.8 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 15 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Clay 6 co

Model: Combined, $S=f(\text{depth})$
Unit Weight: 17 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 15 kPa
Cu-Rate of Change: 1.5 kPa/m
C/Cu Ratio: 0.1

Clay 7 co älv

Model: Combined, $S=f(\text{datum})$
Unit Weight: 15 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 3 kPa

Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1
Elevation: 0 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 °

Bedrock

Model: Bedrock (Impenetrable)

Clay 8 co älv

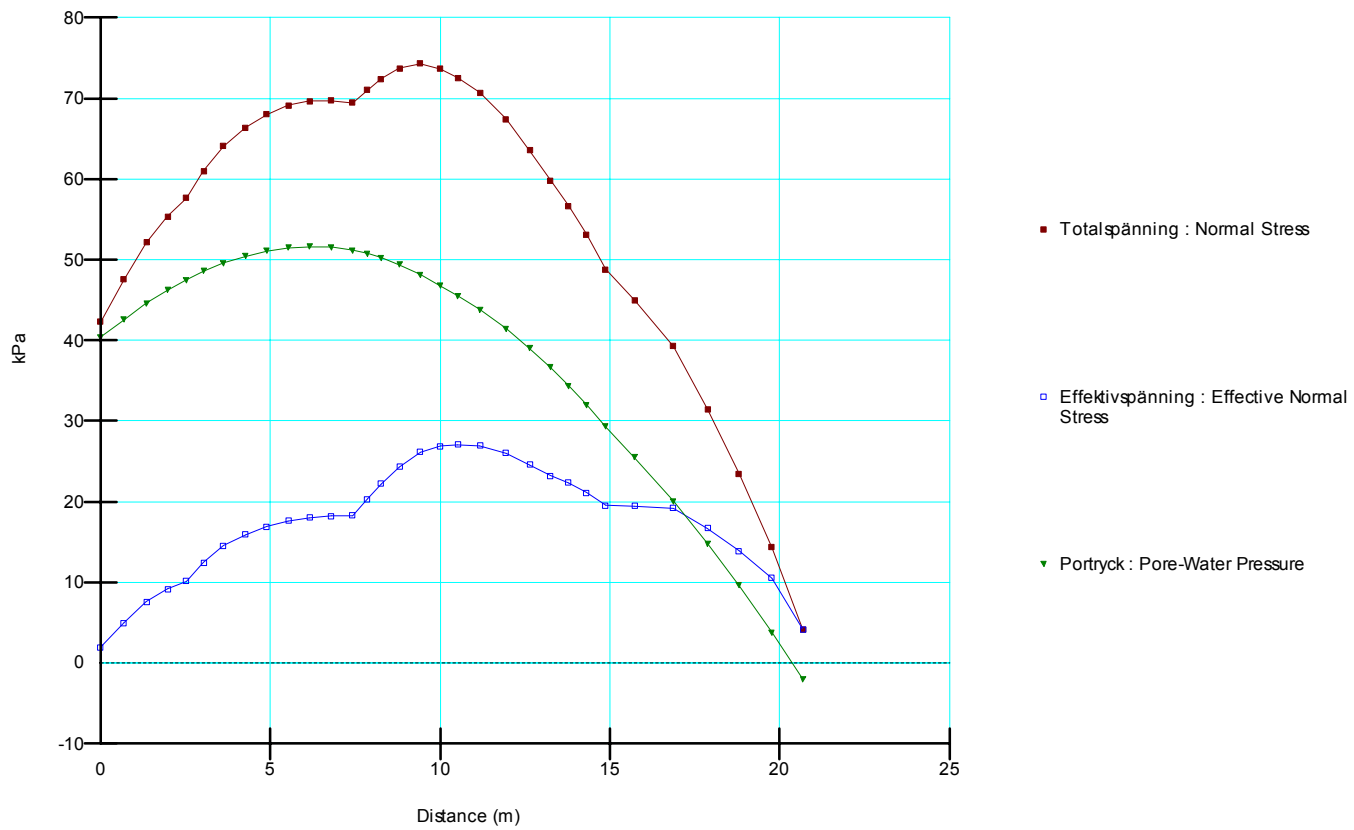
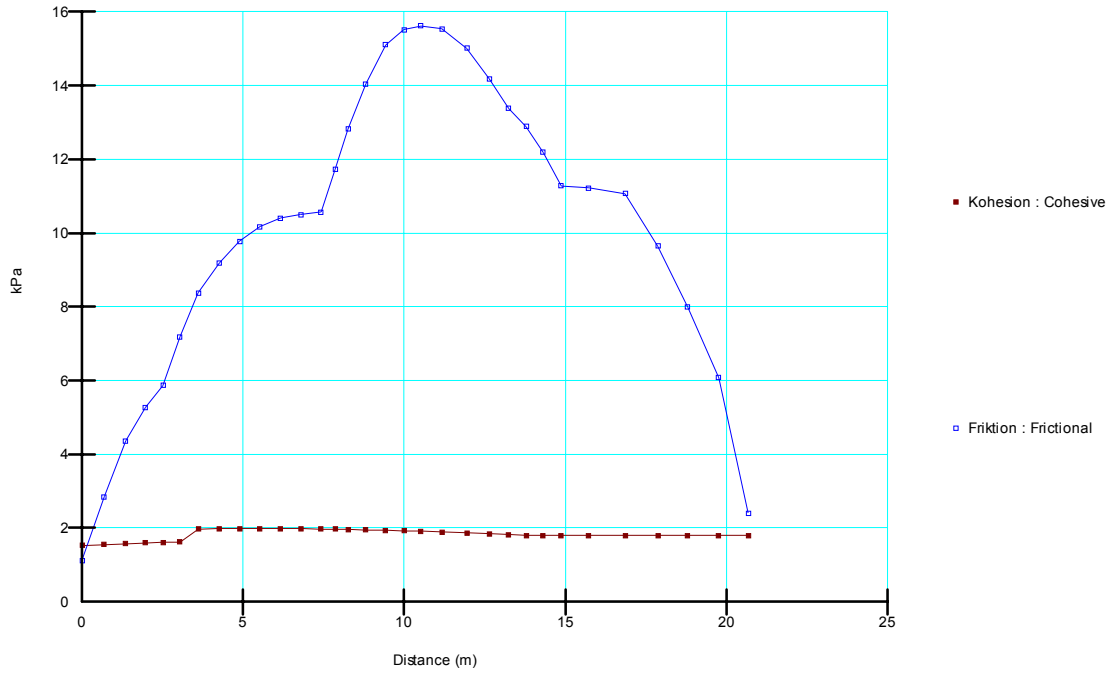
Model: Combined, $S=f(\text{datum})$
Unit Weight: 16 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 3 kPa
Cu-Rate of Change: 3.6 kPa/m
C/Cu Ratio: 0.1
Elevation: -7.3 m

Clay 9 co strand

Model: Combined, $S=f(\text{datum})$
Unit Weight: 18 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 18 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1
Elevation: 2 m

Clay 10 co strand

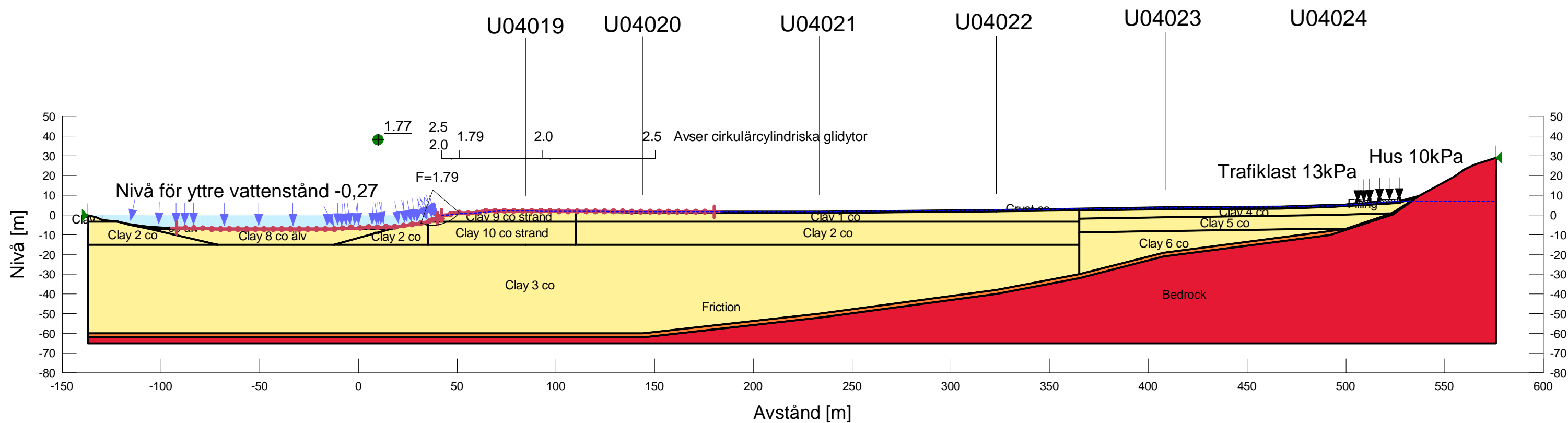
Model: Combined, $S=f(\text{datum})$
Unit Weight: 16.6 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 18 kPa
Cu-Rate of Change: 1.04 kPa/m
C/Cu Ratio: 0.1
Elevation: -3.5 m





Skala 1:2000 (A3)
Leveransdatum 2011-03-31

Göta älv utredningen 2009-2012
SEKTION: V43/850 kombinerad analys
Beräkningsmodell: Morgenstern-Price
Metod: Entry and Exit
Portrycksmodell: Pressure Head Spatial Function
Datum: 2011-04-05





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