

Kombinerad analys, nulägesanalys, nedre slänt

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File Information

Created By: [Karlström, Hanna](#)
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Last Edited By: [Karlström, Hanna](#)
Date: [2010-12-11](#)
Time: [13:09:13](#)
File Name: [34700WKS.gsz](#)
Directory: [V:_UPPDRAAG\224784\Teknik\Delområde 1-10\Delområde 4-14084\Geoteknik\Beräkningar\Sektion 18\](#)
Last Solved Date: [2010-12-11](#)
Last Solved Time: [13:15:56](#)

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, nulägesanalys, nedre slänt

Description: [V34/700 kombinerad 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

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 1 co

Model: Combined, S=f(depth)

Unit Weight: 17.3 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: 1 kPa/m

C/Cu Ratio: 0.1

Clay 2 co

Model: Combined, S=f(depth)

Unit Weight: 16.4 kN/m³

Phi: 30 °

C-Top of Layer: 0 kPa

C-Rate of Change: 0 kPa/m

Cu-Top of Layer: 19 kPa

Cu-Rate of Change: 0 kPa/m

C/Cu Ratio: 0.1

Clay 3 co

Model: Combined, S=f(depth)

Unit Weight: 17.3 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: 1.22 kPa/m
C/Cu Ratio: 0.1

Clay 4 co

Model: Combined, $S=f(\text{depth})$
Unit Weight: 16.4 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 26 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

Clay 11 co

Model: Combined, $S=f(\text{depth})$
Unit Weight: 16.4 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 19.88 kPa
Cu-Rate of Change: 1.22 kPa/m
C/Cu Ratio: 0.1

Clay 5 co

Model: Combined, $S=f(\text{datum})$
Unit Weight: 17.8 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 15 kPa
Cu-Rate of Change: 3.43 kPa/m
C/Cu Ratio: 0.1
Elevation: 4 m

Clay 7 co

Model: Combined, $S=f(\text{datum})$
Unit Weight: 17.3 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 35 kPa
Cu-Rate of Change: 1.08 kPa/m
C/Cu Ratio: 0.1
Elevation: -3.5 m

Clay 8 co

Model: Combined, $S=f(\text{datum})$
Unit Weight: 17.3 kN/m³

Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 42 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1
Elevation: -10 m

Clay 9 co

Model: Combined, $S=f(\text{datum})$
Unit Weight: 16.5 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 42 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1
Elevation: -13 m

Clay 12 co älv

Model: Combined, $S=f(\text{depth})$
Unit Weight: 16 kN/m³
Phi: 30 °
C-Top of Layer: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Top of Layer: 12 kPa
Cu-Rate of Change: 3 kPa/m
C/Cu Ratio: 0.1

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

Clay 10 co

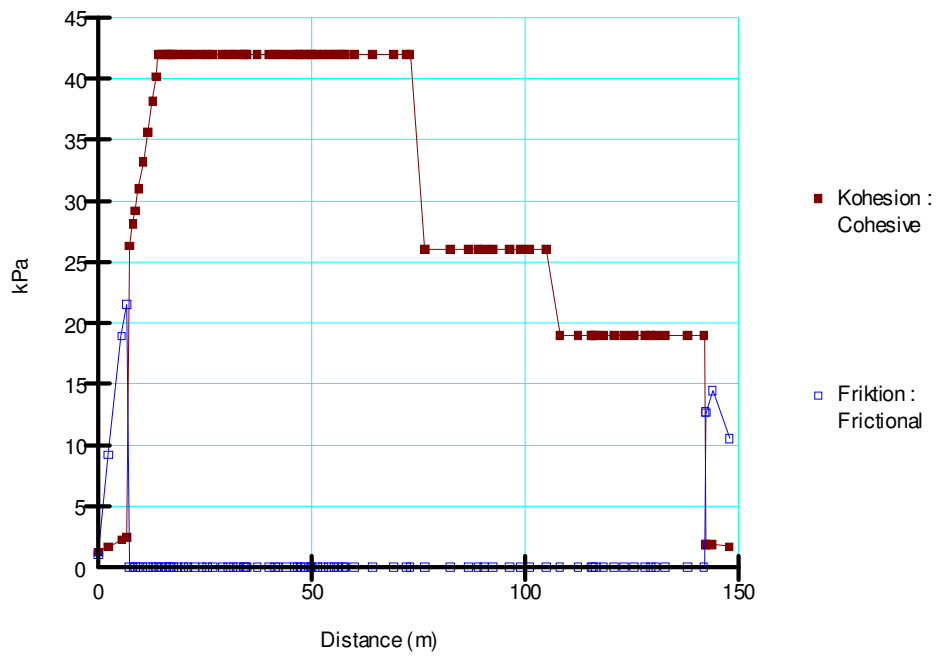
Model: Combined, $S=f(\text{datum})$
Unit Weight: 16 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 42 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1
Elevation: -20 m

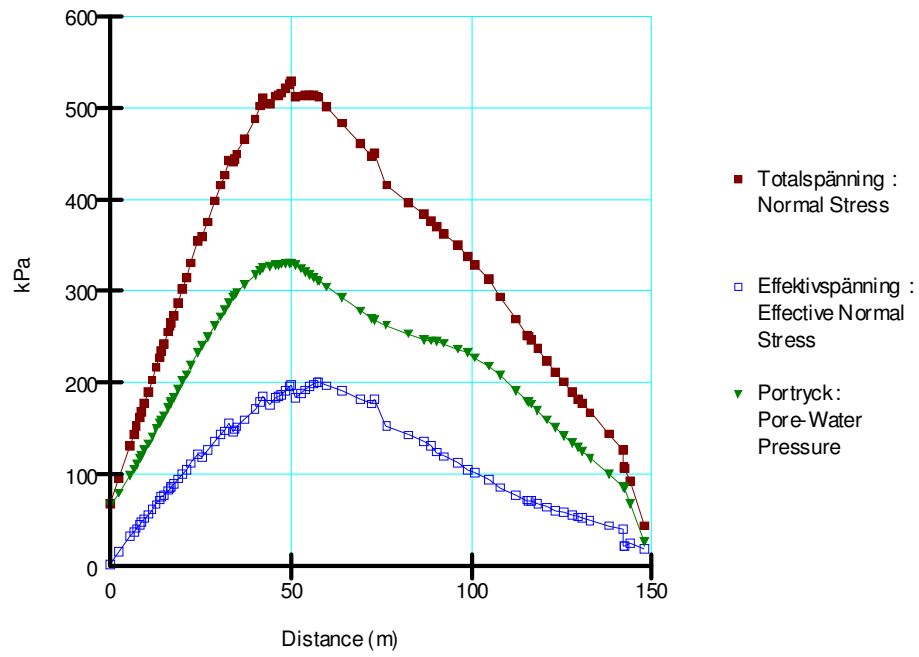
Sand

Model: **Mohr-Coulomb**
 Unit Weight: **20 kN/m³**
 Unit Wt. Above Water Table: **18 kN/m³**
 Cohesion: **0 kPa**
 Phi: **34 °**
 Phi-B: **0 °**

Strandskoning

Model: **Mohr-Coulomb**
 Unit Weight: **21 kN/m³**
 Unit Wt. Above Water Table: **18 kN/m³**
 Cohesion: **0 kPa**
 Phi: **40 °**
 Phi-B: **0 °**



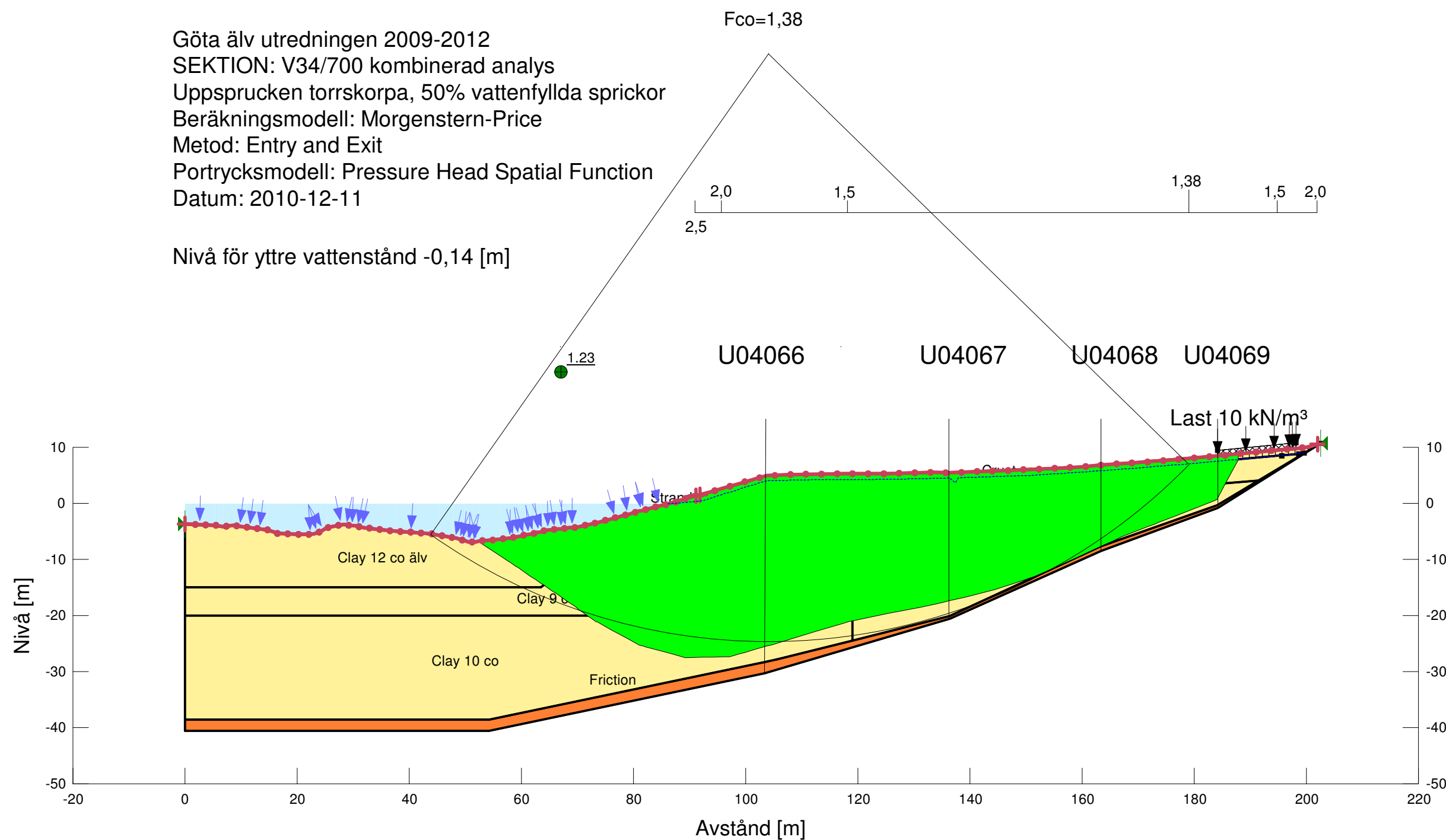




Skala 1:800 (A3)
Leveransdatum 2011-03-31

Göta älv utredningen 2009-2012
SEKTION: V34/700 kombinerad 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]





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

Göta älv utredningen 2009-2012
SEKTION: V34/700 kombinerad analys
Uppsprucken torrskorpa, 50% vattenfyllda sprickor
Beräkningsmodell: Morgenstern-Price
Metod: Entry and Exit
Portrycksmodell: Pressure Head Spatial Function
Datum: 2011-04-11

Nivå för yttre vattenstånd -0,14 [m]

