# Kombinerad analys, befintliga förhållanden



## File Information

Created By: Saad Jamil
Revision Number: 258
Last Edited By: Jamil, Saad
Date: 2010-12-10
Time: 15:44:29
File Name: 37250WKS.gsz
Directory: V:_UPPDRAG\224784\Teknik\Delområde 1-10\Delområde 4-14084\Geoteknik\Beräkningar\Sektion 14\
Last Solved Date: 2010-12-10
Last Solved Time: 15:47:12

## 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: V37/250 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: 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

## Filling
Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion: 0 kPa
Phi: 33 °
Phi-B: 0 °

## Clay 1 co
Model: Combined, S=f(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: 20 kPa
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1

## Clay 2 co
Model: Combined, S=f(datum)
Unit Weight: 16.8 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 20 kPa
Cu-Rate of Change: 1 kPa/m
C/Cu Ratio: 0.1
Elevation: 3 m

## Clay 3 co
Model: Combined, S=f(datum)
Unit Weight: 16.4 kN/m³
Phi: 30 °

C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 20 kPa
Cu-Rate of Change: 1 kPa/m
C/Cu Ratio: 0.1
Elevation: 3 m

### Clay 4 co älv

Model: Combined, S=f(datum)
Unit Weight: 17.1 kN/m³
Phi: 30 °
C-Datum: 0 kPa
C-Rate of Change: 0 kPa/m
Cu-Datum: 20 kPa
Cu-Rate of Change: 1 kPa/m
C/Cu Ratio: 0.1
Elevation: 3 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 °

### Silt

Model: Mohr-Coulomb
Unit Weight: 19 kN/m³
Unit Wt. Above Water Table: 17 kN/m³
Cohesion: 0 kPa
Phi: 31 °
Phi-B: 0 °

### Bedrock

Model: Bedrock (Impenetrable)

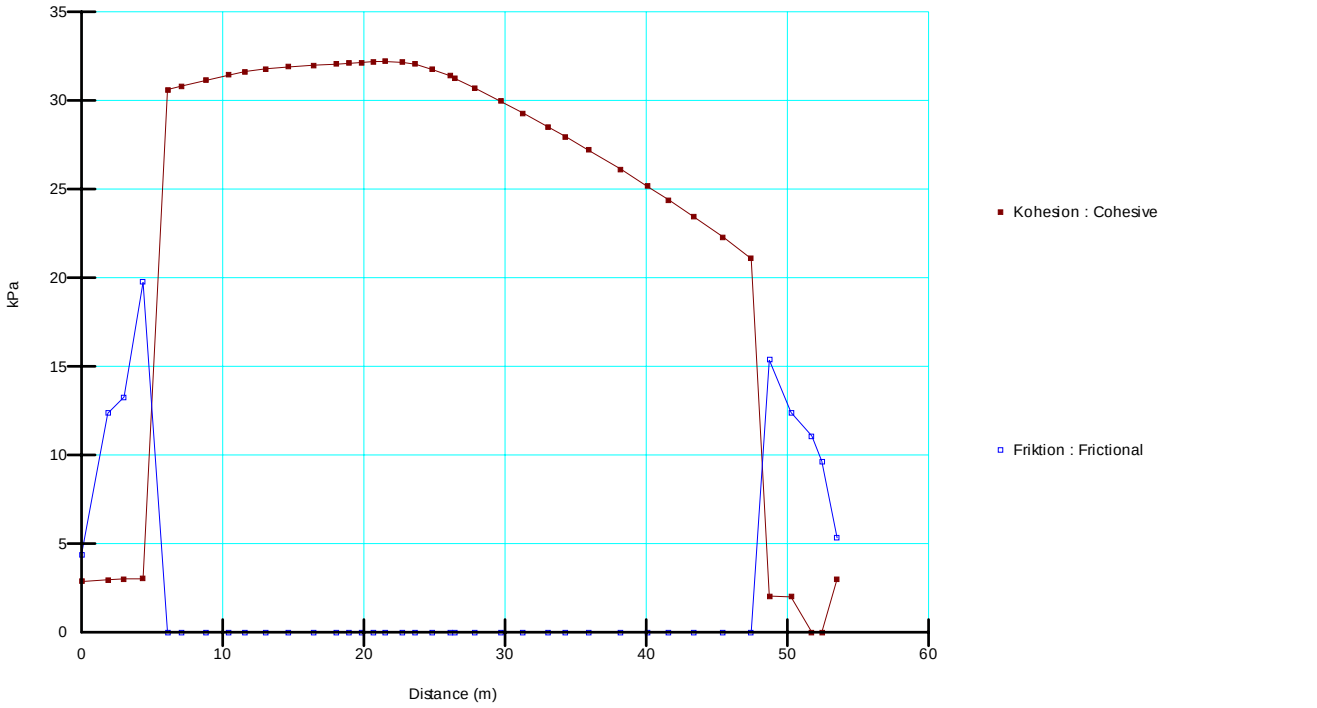
### Strandskoning

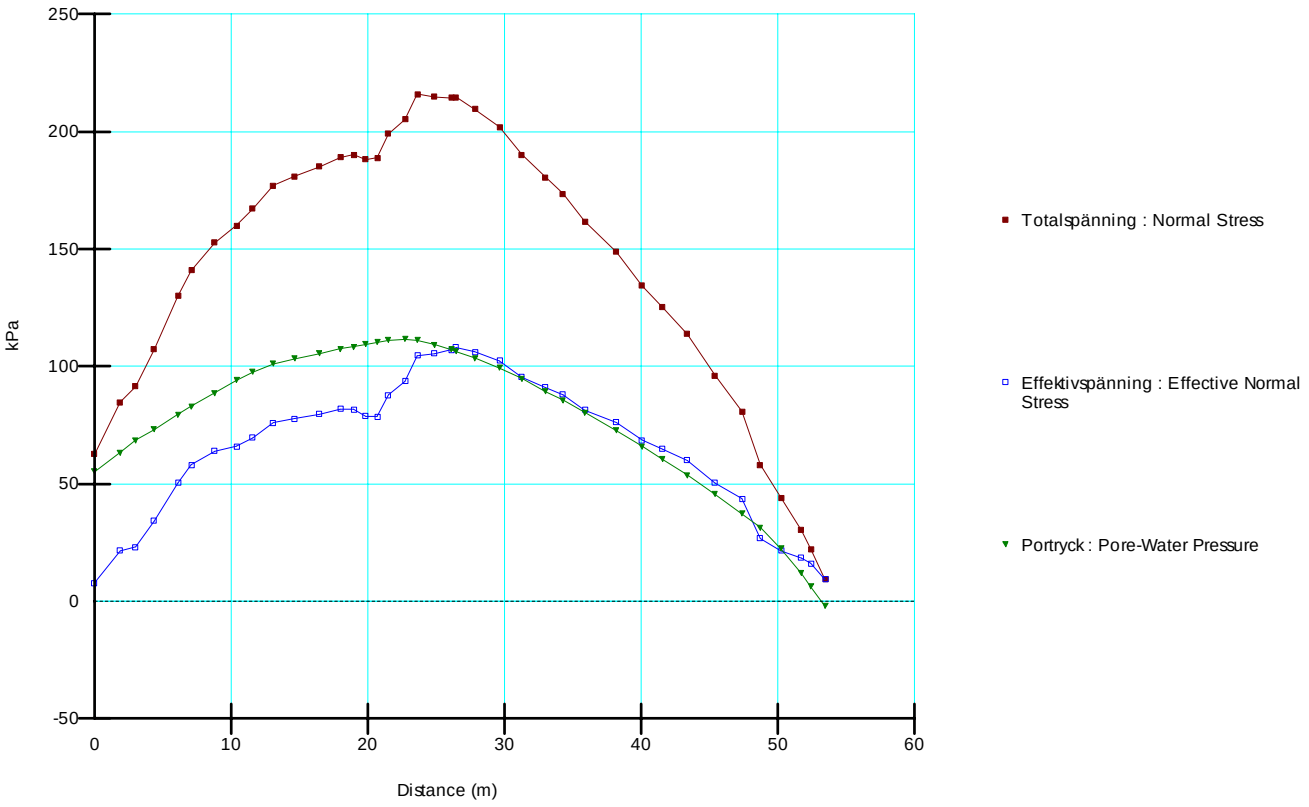
Model: Mohr-Coulomb
Unit Weight: 21 kN/m³
Unit Wt. Above Water Table: 18 kN/m³
Cohesion: 0 kPa
Phi: 40 °
Phi-B: 0 °

### Crust co

Model: Combined, S=f(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

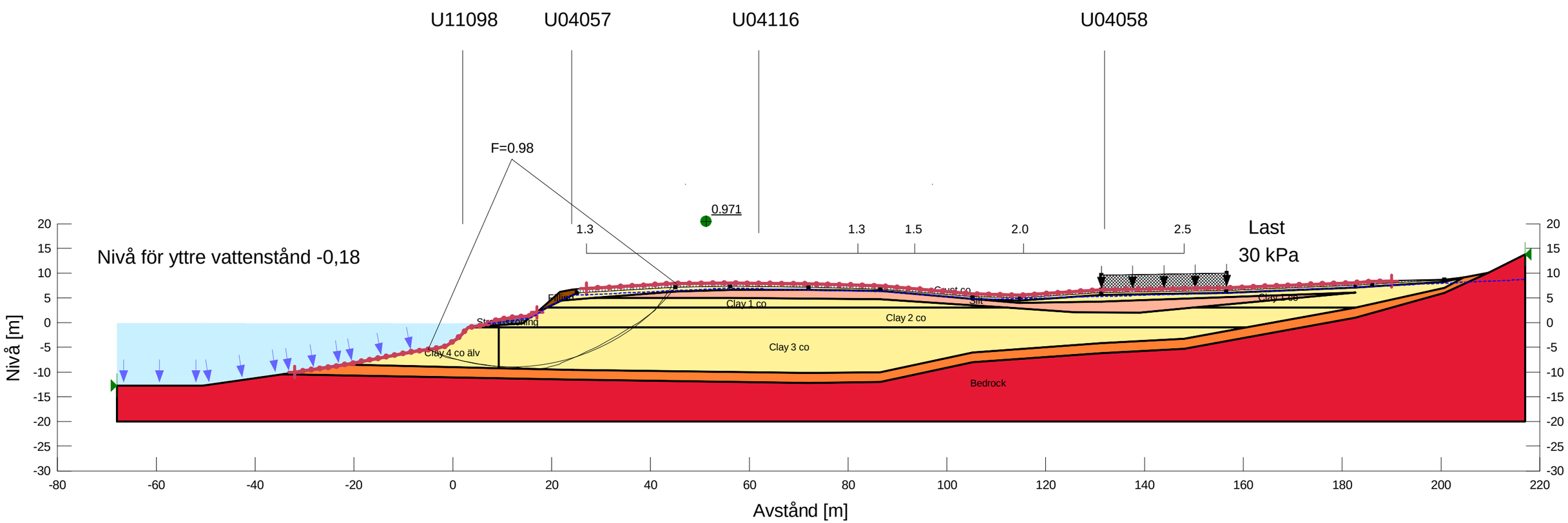
Cu-Rate of Change: 0 kPa/m
C/Cu Ratio: 0.1



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

Göta älv utredningen 2009-2012
SEKTION: V37/250 kombinerad analys
Uppsprucken torrskorpa, 50 % vattenfyllda sprickor
Beräkningsmodell: Morgenstern-Price
Metod: Entry and Exit
Portrycksmodell: Pressure Head Spatial Function
Datum: 2010-12-10

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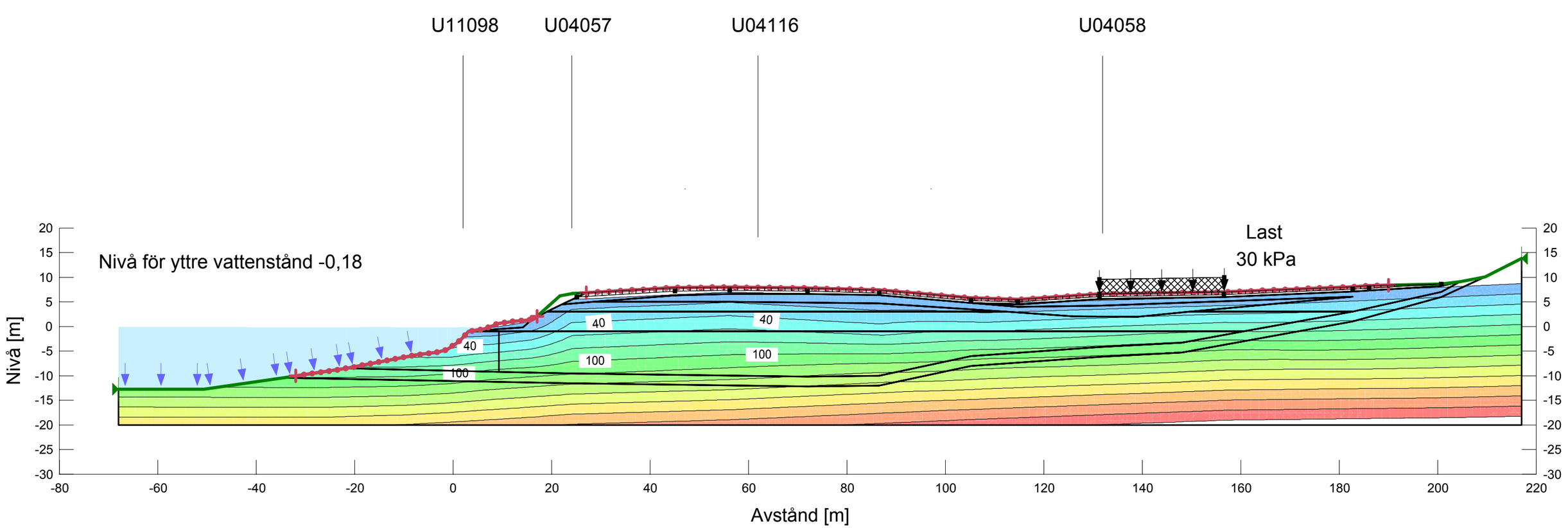


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