

Odränerad analys, befintliga förhållanden

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File Information

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File Name: [38500WUS.gsz](#)
Directory: [V:_UPPDRAAG\224784\Teknik\Delområde 1-10\Delområde 4-14084\Geoteknik\Beräkningar\Sektion 12\](#)
Last Solved Date: [2010-12-08](#)
Last Solved Time: [07:33:58](#)

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, befintliga förhållanden, nulägesanalys

Description: [V38/500 odränerad 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 ud

Model: **S=f(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(datum)**Unit Weight: **15.2 kN/m³**C-Datum: **15 kPa**C-Rate of Change: **0 kPa/m**Limiting C: **0 kPa**Elevation: **5 m**

Clay 2 ud

Model: **S=f(datum)**Unit Weight: **15.2 kN/m³**C-Datum: **15 kPa**C-Rate of Change: **1.8 kPa/m**Limiting C: **0 kPa**Elevation: **0 m**

Clay 3 ud

Model: **S=f(depth)**Unit Weight: **16 kN/m³**C-Top of Layer: **30 kPa**C-Rate of Change: **0 kPa/m**Limiting C: **0 kPa**

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)

Sand

Model: Mohr-Coulomb
Unit Weight: 20 kN/m³
Unit Wt. Above Water Table: 18 kN/m³
Cohesion: 0 kPa
Phi: 33 °
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: V38/500 odränerad analys
Beräkningsmodell: Morgenstern-Price
Metod: Entry and Exit
Portrycksmodell: Pressure Head Spatial Function
Datum: 2011-04-15

