

Slide Analysis Information

Deponija Sv.Peter

Project Summary

File Name: SVAnton_VZD_brez nasipa.slim
 Slide Modeler Version: 6.005
 Project Title: Deponija Sv.Peter
 Analysis: Analiza stabilnosti - vzdolžni profil
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 Company: GECKO d.o.o.
 Comments:

Analiza stabilnosti pobočja brez nasipa

Design Standard

Selected Type: Eurocode 7 - Design Approach 3

Type	Partial Factor
Permanent Actions: Unfavourable	1
Permanent Actions: Favourable	1
Variable Actions: Unfavourable	1.3
Variable Actions: Favourable	0
Effective cohesion	1.25
Coefficient of shearing resistance	1.25
Undrained strength	1.4
Weight density	1
Shear strength (other models)	1.25
Earth resistance	1
Tensile and plate strength	1
Shear strength	1
Compressive strength	1
Bond strength	1
Seismic Coefficient	1




Groundwater Analysis

Groundwater Method: Water Surfaces
 Pore Fluid Unit Weight: 9.81 kN/m³
 Advanced Groundwater Method: None

Loading

Seismic Load Coefficient (Horizontal): 0.05
 Seismic Load Coefficient (Vertical): 0.025

Material Properties

Property	Nasutje	GM	Fliš
Color			
Strength Type	Mohr-Coulomb	Mohr-Coulomb	Generalised Hoek-Brown
Unit Weight [kN/m ³]	20	19	23
Cohesion [kPa]	0.5	0	
Friction Angle [deg]	35	36	
Unconfined Compressive Strength (intact) [kPa]			3000
nmb			0.431795
ns			0.000172232
na			0.538237
Water Surface	Water Table	Water Table	Water Table
Hu Value	1	1	0.8

Global Minimums

Method: bishop simplified

FS: 1.369680
 Center: 210.061, 338.379
 Radius: 297.198
 Left Slip Surface Endpoint: 310.393, 58.629
 Right Slip Surface Endpoint: 314.455, 60.119
 Resisting Moment=1438.09 kN-m
 Driving Moment=1049.95 kN-m