

## *Slide Analysis Information*

### *Odlagalisce Sv.Peter*

#### *Project Summary*

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File Name: SvPeter\_VZD  
 Slide Modeler Version: 7.013  
 Project Title: Odlagalisce Sv.Peter  
 Analysis: Analiza stabilnosti čelne brežine  
 Author: B.Praznik,u.d.i.geol.  
 Company: GECKO d.o.o.

#### *Design Standard*

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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*

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

#### *Seismic*

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Advanced seismic analysis: No  
 Staged pseudostatic analysis: No

#### *Loading*

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

## Material Properties

| Property                                       | Nasutje   | GM  | Fliš  | Preperina   |
|--|---|---|---|---|
| Color  |  |  |  |  |
| Strength Type                                  | Mohr-Coulomb  | Mohr-Coulomb  | Generalized Hoek-Brown  | Mohr-Coulomb  |
| Unit Weight [kN/m <sup>3</sup> ]               | 20  | 19  | 23  | 19  |
| Cohesion [kPa]                                 | 0.5   | 0   |   | 60  |
| Friction Angle [deg]                           | 35  | 35  |   | 0   |
| Unconfined Compressive Strength (intact) [kPa] |   |   | 3000  |   |
| nmb  |   |   | 0.431795  |   |
| ns   |   |   | 0.000172232   |   |
| na   |   |   | 0.538237  |   |
| Water Surface                                  | Water Table   | Water Table   | Water Table   | Water Table   |
| Hu Value                                       | 1   | 1   | 0.8   | 1   |

## Global Minimums

### Method: bishop simplified

| FS                           | 1.180550               |
|------------------------------|------------------------|
| Center:                      | 22.824, 12.209         |
| Radius:                      | 4.899                  |
| Left Slip Surface Endpoint:  | 21.513, 7.488          |
| Right Slip Surface Endpoint: | 27.204, 10.013         |
| Resisting Moment:            | 198.548 kN-m           |
| Driving Moment:              | 168.183 kN-m           |
| Total Slice Area:            | 3.91595 m <sup>2</sup> |
| Surface Horizontal Width:    | 5.69029 m              |
| Surface Average Height:      | 0.688182 m             |