

- phesion
- 0 - 2 kPa

2 - 4 kPa

4 - 6 kPa

6 - 8 kPa

8 - 10 kPa

10 - 12 kPa

12 - 14 kPa

14 - 16 kPa

16 - 18 kPa

18 - 20 kPa

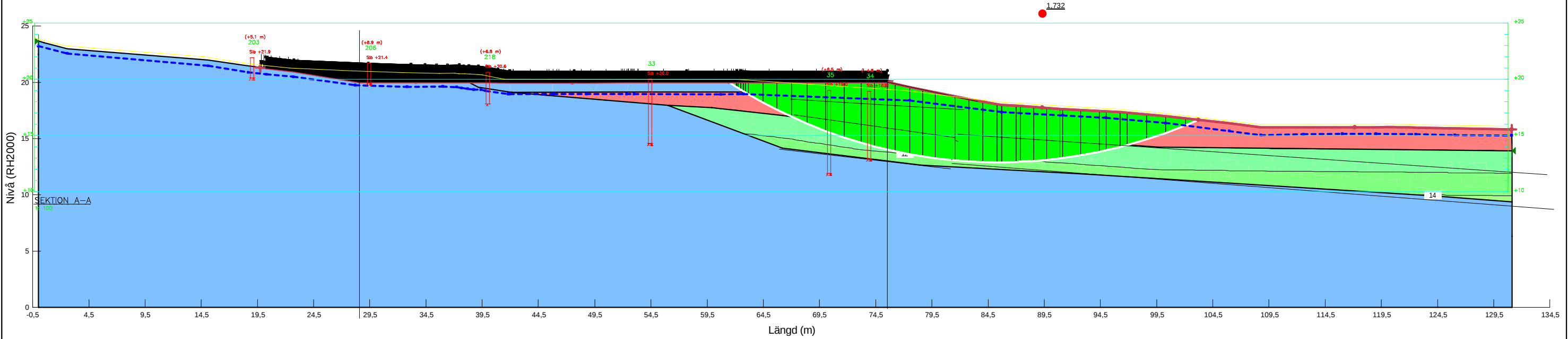
20 - 22 kPa

22 - 24 kPa

24 - 26 kPa

26 - 28 kPa

28 - 30 kPa



SLOPE/W Analysis

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File Information

File Version: 8.16
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File Name: Korrekt beräkningsskettion a-A.gsz
Directory: C:\Users\peoakylm\AppData\Roaming\GEO-SLOPE\GeoStudio 8\Templates\

Project Settings

Length(L) Units: [Meters](#)
Time(t) Units: [Seconds](#)
Force(F) Units: [Kilonewtons](#)
Pressure(p) Units: [kPa](#)
Strength Units: [kPa](#)
Unit Weight of Water: 9,807 kN/m³
View: [2D](#)
Element Thickness: 1

Analysis Settings

SLOPE/W Analysis

Kind: [SLOPE/W](#)
Method: [Morgenstern-Price](#)
Settings
Side Function
Interslice force function option: [Half-Sine](#)
PWP Conditions Source: [Piezometric Line](#)
Apply Phreatic Correction: [No](#)
Use Staged Rapid Drawdown: [No](#)
Slip Surface
Direction of movement: [Left to Right](#)
Use Passive Mode: [No](#)
Slip Surface Option: [Entry and Exit](#)
Critical slip surfaces saved: 1
Resisting Side Maximum Convex Angle: 1 °
Driving Side Maximum Convex Angle: 5 °
Optimize Critical Slip Surface Location: [No](#)
Tension Crack
Tension Crack Option: [\(none\)](#)
F of S Distribution
F of S Calculation Option: [Constant](#)
Advanced
Number of Slices: 30
F of S Tolerance: 0,001
Minimum Slip Surface Depth: 0,1 m
Search Method: [Root Finder](#)
Tolerable difference between starting and converged F of S: 3
Maximum iterations to calculate converged lambda: 20
Max Absolute Lambda: 2

Materials

Lera odränerat

Model: [S=f\(depth\)](#)
Unit Weight: 16,5 kN/m³
C-Top of Layer: 10 kPa
C-Rate of Change: 1 (kN/m²)/m
C-Maximum: 20 kPa
Pore Water Pressure
Piezometric Line: 1

Fyllning

Model: [Mohr-Coulomb](#)
Unit Weight: 19 kN/m³
Cohesion': 0,1 kPa
Phi': 38 °
Phi-B: 0 °
Pore Water Pressure
Piezometric Line: 1

Friktionsmaterial

Model: [Mohr-Coulomb](#)
Unit Weight: 19 kN/m³
Cohesion': 1 kPa
Phi': 34 °
Phi-B: 0 °
Pore Water Pressure

Piezometric Line: 1

Torrskorpelera

Model: Undrained (Phi=0)
Unit Weight: 18 kN/m³
Cohesion: 30 kPa
Pore Water Pressure
Piezometric Line: 1

Slip Surface Entry and Exit

Left Projection: Range
Left-Zone Left Coordinate: (19,75336; 21,3088) m
Left-Zone Right Coordinate: (75,35; 20,025) m
Left-Zone Increment: 4
Right Projection: Range
Right-Zone Left Coordinate: (75,56404; 20,02184) m
Right-Zone Right Coordinate: (131,1; 15,8226) m
Right-Zone Increment: 4
Radius Increments: 4

Slip Surface Limits

Left Coordinate: (0; 23,65937) m
Right Coordinate: (131,125; 13,925) m

Piezometric Lines

Piezometric Line 1

Coordinates		
	X (m)	Y (m)
Coordinate 1	0	23,2
Coordinate 2	2,575	22,575
Coordinate 3	15,125	21,45
Coordinate 4	18,675	20,9
Coordinate 5	20,3	20,7
Coordinate 6	22,7	20,5
Coordinate 7	28,2	19,725
Coordinate 8	32,825	19,6
Coordinate 9	36	19,625
Coordinate 10	37,225	19,55
Coordinate 11	37,65	19,5
Coordinate 12	38,2	19,425
Coordinate 13	38,725	19,35
Coordinate 14	39,375	19,35
Coordinate 15	39,8	19,25
Coordinate 16	41,8	18,95
Coordinate 17	41,95	18,95
Coordinate 18	45,825	18,95
Coordinate 19	48,775	18,95
Coordinate 20	52,35	18,95
Coordinate 21	53,025	18,95
Coordinate 22	60,725	18,925
Coordinate 23	62,25	18,95
Coordinate 24	62,725	18,95
Coordinate 25	77,525	18,4
Coordinate 26	85,725	17,35
Coordinate 27	91,15	17,075
Coordinate 28	95	16,85
Coordinate 29	100,275	16,4
Coordinate 30	105,975	15,675
Coordinate 31	108,775	15,325
Coordinate 32	112,575	15,4
Coordinate 33	116,025	15,425
Coordinate 34	119,025	15,425
Coordinate 35	122,575	15,4
Coordinate 36	126,025	15,325
Coordinate 37	131,1	15,275

Surcharge Loads

Surcharge Load 1

Surcharge (Unit Weight): 30 kN/m³
Direction: Vertical

Coordinates		
	X (m)	Y (m)
	20,25	22,25

20,4	22,25
22,75	22
29,4	21,7
33,175	21,6
34,425	21,575
35,45	21,525
36,4	21,525
37,5	21,55
37,875	21,45
38,3	21,5
39,175	21,45
40	21,35
40,925	21,175
41,975	21,025
47,7	21,025
57,7	21,025
62,15	21,025
62,525	21,025
75,55	21,025

Points

	X (m)	Y (m)
Point 1		
Point 2	131,125	6,3
Point 3	70,69639	11,635
Point 4	54,76774	14,295
Point 5	40,35	17,6
Point 6	29,725	18,95
Point 7	19,325	19,55
Point 8	0	22,48231
Point 9	0	23,65937
Point 10	0,50206	23,52383
Point 11	2,58843	23
Point 12	6,74415	22,64735
Point 13	15,10535	22
Point 14	18,65129	21,44099
Point 15	20,1299	21,26363
Point 16	20,28239	21,24534
Point 17	22,68051	21
Point 18	32,825	20,025
Point 19	36,025	20,025
Point 20	37,4	20,025
Point 21	37,75	20,025
Point 22	38,275	20,025
Point 23	38,725	20,025
Point 24	39,425	20,025
Point 25	39,825	20,025
Point 26	41,80408	20
Point 27	41,84895	19,99782
Point 28	45,70257	19,99399
Point 29	45,875	19,99396
Point 30	48,74142	19,99228
Point 31	52,3	20,025
Point 32	52,425	20,025
Point 33	52,6	20,025
Point 34	52,925	20,025
Point 35	52,95	20,025
Point 36	60,55	20,025
Point 37	62,075	20,025
Point 38	62,25	20,025
Point 39	62,475	20,025
Point 40	77,55	19,575
Point 41	82,8	18,475
Point 42	85,69738	18
Point 43	87,40613	17,87972
Point 44	90,89424	17,64834
Point 45	94,38126	17,44545
Point 46	96,25121	17,34768
Point 47	100,27687	17
Point 48	106,01121	16,33323
Point 49	108,78585	16
Point 50	111,4453	16
Point 51	113,07468	16
Point 52	113,27605	16,00106
Point 53	113,35213	16,00135
Point 54	113,73078	16,00205
Point 55	115,02113	16,00648
Point 56	115,54344	16,00735

Point 57	116,06424	16,0053
Point 58	118,90655	16,00214
Point 59	119,9044	16,02457
Point 60	120,45104	16,02494
Point 61	120,57364	16,0321
Point 62	121,03471	16
Point 63	121,76404	15,99599
Point 64	121,94424	15,99585
Point 65	122,85495	15,95243
Point 66	131,10397	15,82254
Point 67	0	0
Point 68	131,125	0
Point 69	0	23,2
Point 70	28,55	-0,975
Point 71	75,55	-0,125
Point 72	28,55	20,025
Point 73	75,55	20,025
Point 74	75,55	18,95
Point 75	83,55	21,1
Point 76	85,275	18,06925
Point 77	79,8	18,3
Point 78	76,225	18,6
Point 79	71,675	18,775
Point 80	62,55	19,125
Point 81	60,3	19,125
Point 82	54,175	19,125
Point 83	42,1	19,1
Point 84	39,175	19,575
Point 85	131,125	13,925
Point 86	108,525	14,125
Point 87	99,65	14,225
Point 88	87	15,125
Point 89	81,525	15,275
Point 90	73,225	16
Point 91	68,4	16,725
Point 92	66,175	17,075
Point 93	59,9	17,75
Point 94	55,975	17,95
Point 95	66,175	14,125
Point 96	78,575	12,625
Point 97	93,55	11,8
Point 98	124,4	9,9
	131,11815	9,4

Point 99		
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Regions

	Material	Points	Area (m²)
Region 1	Friktionsmaterial	2;3;4;5;6;7;8;69;9;10;11;12;13;14;15;16;17;72;18;19;20;21;22;84;83;94;95;96;97;98;99	284
Region 2	Friktionsmaterial	8;67;68;2;3;4;5;6;7	1 778,
Region 3	Fyllning	23;24;25;26;27;28;29;30;31;32;33;34;35;36;37;38;39;73;40;41;76;77;78;79;80;81;82;83;84;22	42,04
Region 4	Lera odränerat	99;98;97;96;95;94;93;92;91;90;89;88;87;86;85	225,3!
Region 5	Torrskorpelera	82;81;80;79;78;77;76;42;43;44;45;46;47;48;49;50;51;52;53;54;55;56;57;58;59;60;61;62;63;64;65;66;85;86;87;88;89;90;91;92;93;94;83	180,1.