

Stabilita

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File Information

Title: [VD Ludkovice](#)
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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

S_MBH_Vzdušní

Kind: [SLOPE/W](#)
Parent: [MBH_285.55](#)
Method: [GLE](#)
Settings
 Side Function
 Interslice force function option: [Half-Sine](#)
 Lambda
 Lambda: [0](#)
 Lambda: [-1.25](#)
 Lambda: [-1](#)
 Lambda: [-0.75](#)
 Lambda: [-0.5](#)
 Lambda: [-0.25](#)
 Lambda: [0.25](#)
 Lambda: [0.5](#)
 Lambda: [0.75](#)
 Lambda: [1](#)
 Lambda: [1.25](#)
 Lambda: [0](#)
 Lambda: [0](#)
 Lambda: [0](#)

Lambda: 0
PWP Conditions Source: Parent Analysis
Slip Surface
Direction of movement: Left to Right
Use Passive Mode: No
Slip Surface Option: Entry and Exit
Critical slip surfaces saved: 1
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: 2.0 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

Kamenná sypanina

Model: Mohr-Coulomb
Unit Weight: 18.93 kN/m³
Cohesion: 0 kPa
Phi: 42 °
Phi-B: 0 °

Kamenitopísčitá suť

Model: Mohr-Coulomb
Unit Weight: 19.61 kN/m³
Cohesion: 0 kPa
Phi: 38 °
Phi-B: 0 °

Těsnící jádro jílovitá hlína

Model: Mohr-Coulomb
Unit Weight: 19.82 kN/m³
Cohesion: 10 kPa
Phi: 19 °
Phi-B: 0 °

Zemina z výkopů

Model: Mohr-Coulomb
Unit Weight: 19.82 kN/m³

Cohesion: 9.81 kPa
Phi: 25 °
Phi-B: 0 °

Filtry

Model: Mohr-Coulomb
Unit Weight: 18.14 kN/m³
Cohesion: 0 kPa
Phi: 30 °
Phi-B: 0 °

Náplavová hlína v podloží hráze

Model: Mohr-Coulomb
Unit Weight: 18.14 kN/m³
Cohesion: 12 kPa
Phi: 20 °
Phi-B: 0 °

Hlinité štěrky

Model: Mohr-Coulomb
Unit Weight: 19.6 kN/m³
Cohesion: 0 kPa
Phi: 38 °
Phi-B: 0 °

Jílovce, slínovce, pískovce

Model: Bedrock (Impenetrable)

Beton

Model: Mohr-Coulomb
Unit Weight: 25 kN/m³
Cohesion: 500 kPa
Phi: 45 °
Phi-B: 0 °

Injekční clona

Model: Bedrock (Impenetrable)

Slip Surface Entry and Exit

Left Projection: Range
Left-Zone Left Coordinate: (-8.95697, 283.18159) m
Left-Zone Right Coordinate: (0.52296, 285.41839) m
Left-Zone Increment: 20
Right Projection: Range
Right-Zone Left Coordinate: (18.29381, 277.00063) m
Right-Zone Right Coordinate: (43.3253, 271.05525) m
Right-Zone Increment: 20
Radius Increments: 20

Slip Surface Limits

Left Coordinate: (-62.19797, 272.21938) m

Right Coordinate: (45.76795, 270.95709) m

Regions

	Material	Points	Area (m ²)
Region 1	Kamenná sypanina	1,2,3,4,5,6,7,8,9,26,10,11,12	174.53913
Region 2	Zemina z výkopů	12,11,13,14,15,16	30.779267
Region 3	Zemina z výkopů	17,18,19,21,20,27	114.99811
Region 4	Filtry	5,21,19,22,23,24,25,26,9,8,7,6	6.222914
Region 5	Kamenitopísčitá suť	26,25,13,11,10	11.434895
Region 6	Filtry	17,27,3,2,28	6.772332
Region 7	Kamenitopísčitá suť	3,27,20,21,5,4	17.23366
Region 8	Těsnící jádro_jílovitá hlína	18,29,54,30,31,32,33,34,35,57,36,37,38,39,40,41,1,2,28,17	216.73576
Region 9	Filtry	37,42,43,44,45,46,47,38	65.35304
Region 10	Beton	33,34,48,49,31,32	3.9
Region 11	Beton	47,38,39,40,50,51,52,53	2.2527751
Region 12	Náplavová hlína v podloží hráze	29,54,55,66,56,15,14,13,25,24,23,22,19,18	158.56893
Region 13	Náplavová hlína v podloží hráze	57,58,59,43,42,37,36	52.516449
Region 14	Hlinité šterky	35,60,58,57	70.502041
Region 15	Hlinité šterky	54,30,61,55	194.9077
Region 16	Jílovce, slínovce,	64,62,60,35,34,48	214.97947

	pískovce		
Regio n 17	Jílovce, slínovce, pískovce	65,63,61,30,31,49	509.23085
Regio n 18	Injekční clona	48,49,65,64	7.878555

Points

	X (m)	Y (m)
Point 1	4.96462	284.18
Point 2	2.60934	284.18
Point 3	-3.98521	280.41168
Point 4	6.03164	274.68777
Point 5	5.68434	274.08
Point 6	8.85069	272.27066
Point 7	11.90135	272.18124
Point 8	12.93149	271.35713
Point 9	13.53494	271.35713
Point 10	14.7122	272.29895
Point 11	27.73139	271.91736
Point 12	21.23543	275.41622
Point 13	29.30281	271.07096
Point 14	37.73268	270.82389
Point 15	38.27553	271.25817
Point 16	28.39482	274.68238
Point 17	-8.4	278.58
Point 18	-20.12847	271.87802
Point 19	8.68321	271.67531
Point 20	-3.4	278.58
Point 21	4.475	274.08
Point 22	11.68321	271.58738
Point 23	12.93321	270.58738
Point 24	13.53321	270.58738
Point 25	14.67365	271.49973
Point 26	13.74713	271.52689
Point 27	-7.19066	278.58
Point 28	1.4	284.18
Point 29	-23.12847	271.87027

Point 30	-30.05532	267.25237
Point 31	-31.05532	267.25237
Point 32	-31.05532	267.85237
Point 33	-32.55532	267.85237
Point 34	-32.55532	267.25237
Point 35	-33.55532	267.25237
Point 36	-39.27558	271.82857
Point 37	-44.35955	271.81544
Point 38	-2.56742	283.86182
Point 39	-1.5	283.86182
Point 40	-1.5	285.44472
Point 41	2.71846	285.38982
Point 42	-49.22682	271.80288
Point 43	-49.78751	272.25143
Point 44	-34.28751	276.68
Point 45	-31.28751	276.78
Point 46	-5.74002	284.10381
Point 47	-2.56742	285.34542
Point 48	-32.55532	265.25237
Point 49	-31.05532	265.25237
Point 50	-1.5	285.56182
Point 51	-1.945	285.56179
Point 52	-1.98563	286.33853
Point 53	-2.50751	286.33941
Point 54	-26.14019	269.86246
Point 55	45.76795	268.58838
Point 56	45.76795	270.95709
Point 57	-36.81793	269.86246
Point 58	-62.19797	269.86246
Point 59	-62.19797	272.21938
Point 60	-62.19797	267.25237
Point 61	45.76795	265.98838
Point 62	-62.19797	260
Point 63	45.76795	260
Point 64	-32.55532	260
Point 65	-31.05532	260
Point 66	45.76795	270.3