

Slide Analysis Information

SLIDE - An Interactive Slope Stability Program

Project Summary

File Name: 4. Seccion 1 Cortes, Cargasy Muros.slim
Slide Modeler Version: 6.005
Project Title: SLIDE - An Interactive Slope Stability Program
Date Created 06/06/2018, 2:23:49 p. m.

General Settings

Units of Measurement Metric
Units
Time Units: days
Permeability Units: meters/second
Failure Direction: Left to Right
Data Output: Standard
Maximum Material Properties 20
Maximum Support Properties 20

Analysis Options

Analysis Methods Used

Bishop simplified
Janbu simplified
Janbu corrected

Number of slices: 200
Tolerance 0.005
Maximum number of iterations: 50
Check $m\alpha < 0.2$: Yes
Initial trial value of FS: 1
Steffensen Iteration Yes

Groundwater Analysis

Groundwater Method: Ru Coefficient
Pore Fluid Unit Weight 9.81 kN/m³
Advanced Groundwater Method: None

Random Numbers

Pseudo-random Seed 10116
Random Number Generation Method: Park and Miller v.3

Surface Options

Surface Type: Circular
Search Method: Slope Search
Number of Surfaces: 5000
Upper Angle: Not Defined
Lower Angle: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack
Minimum Elevation: Not Defined
Minimum Depth: Not Defined

Loading

3 Distributed Loads present

Distributed Load 1

Distribution: Constant
Magnitude [kN/m2]: 25
Orientation: Vertical





Distributed Load 2

Distribution: Constant
Magnitude [kN/m2]: 25
Orientation: Vertical

Distributed Load 3

Distribution: Constant
Magnitude [kN/m2]: 25
Orientation: Vertical

Material Properties

Property	Suelo Residual	Saprolito	Formacion Bogota	Concreto Reforzado
Color				
Strength Type	Mohr-Coulomb	Mohr-Coulomb	Mohr-Coulomb	Mohr-Coulomb
Unit Weight [kN/m3]	20.2	20.2	23.8	24
Cohesion [kPa]	13	18	19	400
Friction Angle [deg]	28	28	33	35
Ru Value	0.1	0.05	0	0

Global Minimums

Method: bishop simplified

FS: 2.210320
Center: 36.190, 3020.124
Radius: 6.491
Left Slip Surface Endpoint: 30.421, 3017.150

Right Slip Surface Endpoint: 38.033, 3013.900
Resisting Moment=2166.95 kN-m
Driving Moment=980.378 kN-m

Method: janbu simplified

FS: 1.986310
Center: 36.190, 3020.124
Radius: 6.491
Left Slip Surface Endpoint: 30.421, 3017.150
Right Slip Surface Endpoint: 38.033, 3013.900
Resisting Horizontal Force=288.264 kN
Driving Horizontal Force=145.126 kN

Method: janbu corrected

FS: 2.120060
Center: 36.190, 3020.124
Radius: 6.491
Left Slip Surface Endpoint: 30.421, 3017.150
Right Slip Surface Endpoint: 38.033, 3013.900
Resisting Horizontal Force=307.675 kN
Driving Horizontal Force=145.126 kN

Valid / Invalid Surfaces

Method: bishop simplified

Number of Valid Surfaces: 3031
Number of Invalid Surfaces: 1969

Error Codes:

Error Code -100 reported for 33 surfaces
Error Code -103 reported for 291 surfaces
Error Code -105 reported for 9 surfaces
Error Code -106 reported for 1495 surfaces
Error Code -107 reported for 7 surfaces
Error Code -108 reported for 62 surfaces
Error Code -112 reported for 72 surfaces

Method: janbu simplified

Number of Valid Surfaces: 3029
Number of Invalid Surfaces: 1971

Error Codes:

Error Code -100 reported for 33 surfaces
Error Code -103 reported for 291 surfaces
Error Code -105 reported for 9 surfaces
Error Code -106 reported for 1495 surfaces
Error Code -107 reported for 7 surfaces
Error Code -108 reported for 75 surfaces
Error Code -112 reported for 61 surfaces

Method: janbu corrected

Number of Valid Surfaces: 3029

Number of Invalid Surfaces: 1971

Error Codes:

Error Code -100 reported for 33 surfaces
Error Code -103 reported for 291 surfaces
Error Code -105 reported for 9 surfaces
Error Code -106 reported for 1495 surfaces
Error Code -107 reported for 7 surfaces
Error Code -108 reported for 75 surfaces
Error Code -112 reported for 61 surfaces

Error Codes

The following errors were encountered during the computation:

-100 = Both surface / slope intersections are on the same horizontal surface. In general, this will give a very high or infinite factor of safety (zero driving force), if calculated.
-103 = Two surface / slope intersections, but one or more surface / nonslope external polygon intersections lie between them. This usually occurs when the slip surface extends past the bottom of the soil region, but may also occur on a benched slope model with two sets of Slope Limits.
-105 = More than two surface / slope intersections with no valid slip surface.
-106 = Average slice width is less than $0.0001 \times$ (maximum horizontal extent of soil region). This limitation is imposed to avoid numerical errors which may result from too many slices, or too small a slip region.
-107 = Total driving moment or total driving force is negative. This will occur if the wrong failure direction is specified, or if high external or anchor loads are applied against the failure direction.
-108 = Total driving moment or total driving force < 0.1 . This is to limit the calculation of extremely high safety factors if the driving force is very small (0.1 is an arbitrary number).
-112 = The coefficient $M\text{-}\alpha = \cos(\alpha)(1 + \tan(\alpha)\tan(\phi)/F) < 0.2$ for the final iteration of the safety factor calculation. This screens out some slip surfaces which may not be valid in the context of the analysis, in particular, deep seated slip surfaces with many high negative base angle slices in the passive zone.

Slice Data

Global Minimum Query (bishop simplified) - Safety Factor: 2.21032

Slice Number	Width [m]	Weight [kN]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]
1	0.0380622	0.0279521	Suelo Residual	13	28	8.26103	18.2595	9.96514	0.073438	9.8917
2	0.0380622	0.0830259	Suelo Residual	13	28	8.55569	18.9108	11.3348	0.218132	11.1166
3	0.0380622	0.136494	Suelo Residual	13	28	8.844	19.5481	12.6737	0.358608	12.3151
4	0.0380622	0.188461	Suelo Residual	13	28	9.12629	20.172	13.9837	0.49514	13.4886
5	0.0380622	0.239019	Suelo Residual	13	28	9.40287	20.7834	15.2663	0.62797	14.6383
6	0.0380622	0.288252	Suelo Residual	13	28	9.67403	21.3827	16.5229	0.757318	15.7656
7	0.0380622	0.336234	Suelo Residual	13	28	9.94004	21.9707	17.7548	0.883379	16.8714

8	0.0380622	0.383032	Suelo Residual	13	28	10.2011	22.5477	18.963	1.00633	17.9567
9	0.0380622	0.428708	Suelo Residual	13	28	10.4574	23.1143	20.1487	1.12634	19.0224
10	0.0380622	0.473318	Suelo Residual	13	28	10.7093	23.671	21.3128	1.24354	20.0693
11	0.0380622	0.516913	Suelo Residual	13	28	10.9568	24.2181	22.4563	1.35807	21.0983
12	0.0380622	0.559539	Suelo Residual	13	28	11.2002	24.7561	23.58	1.47006	22.11
13	0.0380622	0.601238	Suelo Residual	13	28	11.4396	25.2852	24.6846	1.57962	23.1049
14	0.0380622	0.642052	Suelo Residual	13	28	11.6751	25.8057	25.771	1.68685	24.0841
15	0.0380622	0.682016	Suelo Residual	13	28	11.9069	26.3181	26.8395	1.79185	25.0477
16	0.0380622	0.721164	Suelo Residual	13	28	12.1352	26.8226	27.8912	1.8947	25.9965
17	0.0380622	0.759528	Suelo Residual	13	28	12.3599	27.3194	28.9263	1.99549	26.9308
18	0.0380622	0.797137	Suelo Residual	13	28	12.5813	27.8088	29.9456	2.0943	27.8513
19	0.0380622	0.834018	Suelo Residual	13	28	12.7995	28.291	30.9495	2.1912	28.7583
20	0.0380622	0.870197	Suelo Residual	13	28	13.0145	28.7663	31.9383	2.28625	29.6521
21	0.0380622	0.905697	Suelo Residual	13	28	13.2265	29.2349	32.9128	2.37952	30.5332
22	0.0380622	0.940542	Suelo Residual	13	28	13.4355	29.6968	33.8732	2.47106	31.4022
23	0.0380622	0.974751	Suelo Residual	13	28	13.6417	30.1525	34.82	2.56094	32.2591
24	0.0380622	1.00835	Suelo Residual	13	28	13.845	30.6019	35.7535	2.64921	33.1043
25	0.0380622	1.04134	Suelo Residual	13	28	14.0456	31.0453	36.6743	2.7359	33.9384
26	0.0380622	1.07376	Suelo Residual	13	28	14.2436	31.4829	37.5822	2.82107	34.7612
27	0.0380622	1.10562	Suelo Residual	13	28	14.439	31.9147	38.4782	2.90477	35.5734
28	0.0380622	1.13693	Suelo Residual	13	28	14.6318	32.341	39.3621	2.98703	36.3751
29	0.0380622	1.16771	Suelo Residual	13	28	14.8222	32.7618	40.2345	3.0679	37.1666
30	0.0380622	1.19797	Suelo Residual	13	28	15.0102	33.1773	41.0954	3.1474	37.948
31	0.0380622	1.22773	Suelo Residual	13	28	15.1958	33.5876	41.9453	3.22558	38.7197
32	0.0380622	1.25699	Suelo Residual	13	28	15.3791	33.9928	42.7843	3.30246	39.4818
33	0.0380622	1.28578	Suelo Residual	13	28	15.5602	34.3931	43.6127	3.37809	40.2346
34	0.0380622	1.31409	Suelo Residual	13	28	15.7391	34.7885	44.4308	3.45249	40.9783

35	0.0380622	1.34195	Suelo Residual	13	28	15.9159	35.1792	45.2387	3.52569	41.7131
36	0.0380622	1.36937	Suelo Residual	13	28	16.0905	35.5652	46.0367	3.59771	42.439
37	0.0380622	1.39635	Suelo Residual	13	28	16.2631	35.9467	46.825	3.66859	43.1564
38	0.0380622	1.4229	Suelo Residual	13	28	16.4336	36.3236	47.6037	3.73834	43.8654
39	0.0380622	1.44903	Suelo Residual	13	28	16.6022	36.6962	48.3731	3.807	44.5661
40	0.0380622	1.47475	Suelo Residual	13	28	16.7688	37.0645	49.1333	3.87458	45.2587
41	0.0380622	1.50007	Suelo Residual	13	28	16.9335	37.4285	49.8845	3.94111	45.9434
42	0.0380622	1.525	Suelo Residual	13	28	17.0963	37.7884	50.6268	4.00661	46.6202
43	0.0380622	1.54955	Suelo Residual	13	28	17.2574	38.1443	51.3606	4.07109	47.2895
44	0.0380622	1.57371	Suelo Residual	13	28	17.4165	38.4961	52.0857	4.13458	47.9511
45	0.0380622	1.59751	Suelo Residual	13	28	17.5739	38.8439	52.8024	4.1971	48.6053
46	0.0380622	1.62094	Suelo Residual	13	28	17.7295	39.1879	53.5109	4.25866	49.2523
47	0.0380622	1.64401	Suelo Residual	13	28	17.8834	39.5281	54.2114	4.31928	49.8921
48	0.0380622	1.66673	Suelo Residual	13	28	18.0356	39.8645	54.9038	4.37897	50.5248
49	0.0380622	1.68911	Suelo Residual	13	28	18.1862	40.1973	55.5883	4.43776	51.1506
50	0.0380622	1.71115	Suelo Residual	13	28	18.3351	40.5264	56.2652	4.49566	51.7695
51	0.0380622	1.73285	Suelo Residual	13	28	18.4823	40.8519	56.9346	4.55268	52.3819
52	0.0380622	1.75423	Suelo Residual	13	28	18.628	41.1739	57.5962	4.60884	52.9874
53	0.0380622	1.77528	Suelo Residual	13	28	18.7721	41.4924	58.2506	4.66415	53.5864
54	0.0380622	1.79601	Suelo Residual	13	28	18.9147	41.8075	58.8976	4.71862	54.179
55	0.0380622	1.81643	Suelo Residual	13	28	19.0557	42.1192	59.5374	4.77227	54.7651
56	0.0380622	1.83654	Suelo Residual	13	28	19.1952	42.4275	60.1702	4.82511	55.3451
57	0.0380622	1.85635	Suelo Residual	13	28	19.3332	42.7326	60.796	4.87715	55.9188
58	0.0380622	1.87586	Suelo Residual	13	28	19.4698	43.0344	61.4149	4.9284	56.4865
59	0.0380622	1.89507	Suelo Residual	13	28	19.6049	43.333	62.027	4.97887	57.0481
60	0.0380622	1.91399	Suelo Residual	13	28	19.7385	43.6284	62.6322	5.02858	57.6036
61	0.0380622	1.93262	Suelo Residual	13	28	19.8707	43.9207	63.231	5.07753	58.1534

62	0.0380622	1.95097	Suelo Residual	13	28	20.0016	44.2099	63.8232	5.12573	58.6974
63	0.0380622	1.96903	Suelo Residual	13	28	20.1311	44.4961	64.4087	5.1732	59.2355
64	0.0380622	1.98682	Suelo Residual	13	28	20.2591	44.7792	64.988	5.21994	59.768
65	0.0380622	2.00434	Suelo Residual	13	28	20.3859	45.0594	65.5609	5.26596	60.2949
66	0.0380622	2.02159	Suelo Residual	13	28	20.5113	45.3366	66.1276	5.31127	60.8163
67	0.0380622	2.03857	Suelo Residual	13	28	20.6354	45.6109	66.6879	5.35588	61.332
68	0.0380622	2.05528	Suelo Residual	13	28	20.7582	45.8823	67.2423	5.3998	61.8425
69	0.0380622	2.07174	Suelo Residual	13	28	20.8797	46.1508	67.7906	5.44303	62.3476
70	0.0380622	2.08794	Suelo Residual	13	28	20.9999	46.4165	68.333	5.48559	62.8474
71	0.0380622	2.10388	Suelo Residual	13	28	21.1188	46.6794	68.8693	5.52748	63.3418
72	0.0380622	2.11957	Suelo Residual	13	28	21.2366	46.9396	69.3998	5.5687	63.8311
73	0.0380622	2.13501	Suelo Residual	13	28	21.353	47.197	69.9245	5.60927	64.3152
74	0.0380622	2.15021	Suelo Residual	13	28	21.4682	47.4516	70.4434	5.6492	64.7942
75	0.0380622	2.16516	Suelo Residual	13	28	21.5822	47.7036	70.9564	5.68848	65.2679
76	0.0380622	2.17987	Suelo Residual	13	28	21.695	47.9529	71.4641	5.72712	65.7369
77	0.0380622	2.19434	Suelo Residual	13	28	21.8066	48.1996	71.9659	5.76514	66.2008
78	0.0380622	2.20857	Suelo Residual	13	28	21.9171	48.4437	72.4624	5.80253	66.6598
79	0.0380622	2.22257	Suelo Residual	13	28	22.0263	48.6851	72.9534	5.83931	67.1141
80	0.0380622	2.23633	Suelo Residual	13	28	22.1344	48.924	73.4387	5.87547	67.5633
81	0.0380622	2.24987	Suelo Residual	13	28	22.2413	49.1604	73.9188	5.91103	68.0078
82	0.0380622	2.26317	Suelo Residual	13	28	22.3471	49.3942	74.3936	5.94599	68.4476
83	0.0380622	2.27625	Suelo Residual	13	28	22.4517	49.6255	74.8628	5.98035	68.8824
84	0.0380622	2.28911	Suelo Residual	13	28	22.5552	49.8543	75.3271	6.01413	69.313
85	0.0380622	2.30174	Suelo Residual	13	28	22.6576	50.0806	75.7858	6.04731	69.7385
86	0.0380622	2.31415	Suelo Residual	13	28	22.7589	50.3045	76.2395	6.07992	70.1596
87	0.0380622	2.32635	Suelo Residual	13	28	22.8591	50.526	76.688	6.11196	70.5761
88	0.0380622	2.33832	Suelo Residual	13	28	22.9582	50.745	77.1316	6.14342	70.9881

89	0.0380622	2.35008	Suelo Residual	13	28	23.0563	50.9617	77.5698	6.17431	71.3955
90	0.0380622	2.36163	Suelo Residual	13	28	23.1532	51.1759	78.0033	6.20465	71.7986
91	0.0380622	2.37296	Suelo Residual	13	28	23.249	51.3878	78.4314	6.23442	72.197
92	0.0380622	2.38408	Suelo Residual	13	28	23.3439	51.5974	78.8549	6.26364	72.5913
93	0.0380622	2.39499	Suelo Residual	13	28	23.4376	51.8046	79.2733	6.29231	72.981
94	0.0380622	2.4057	Suelo Residual	13	28	23.5303	52.0095	79.6867	6.32044	73.3663
95	0.0380622	2.4162	Suelo Residual	13	28	23.622	52.2121	80.0953	6.34802	73.7472
96	0.0380622	2.42649	Suelo Residual	13	28	23.7126	52.4124	80.4991	6.37506	74.124
97	0.0380622	2.43658	Suelo Residual	13	28	23.8022	52.6105	80.8979	6.40157	74.4964
98	0.0380622	2.44647	Suelo Residual	13	28	23.8907	52.8062	81.2923	6.42755	74.8647
99	0.0380622	2.45615	Suelo Residual	13	28	23.9783	52.9998	81.6816	6.453	75.2286
100	0.0380622	2.46564	Suelo Residual	13	28	24.0649	53.1911	82.0664	6.47792	75.5885
101	0.0380622	2.47493	Suelo Residual	13	28	24.1504	53.3802	82.4463	6.50232	75.944
102	0.0380622	2.48402	Suelo Residual	13	28	24.235	53.567	82.8217	6.5262	76.2955
103	0.0380622	2.49291	Suelo Residual	13	28	24.3185	53.7517	83.1922	6.54957	76.6427
104	0.0380622	2.50161	Suelo Residual	13	28	24.4011	53.9342	83.5584	6.57242	76.986
105	0.0380622	2.51011	Suelo Residual	13	28	24.4827	54.1145	83.9199	6.59476	77.3252
106	0.0380622	2.59175	Suelo Residual	13	28	24.954	55.1563	86.0937	6.80925	79.2845
107	0.0380622	2.99661	Suelo Residual	13	28	27.1514	60.0132	96.2921	7.87292	88.4191
108	0.0380622	3.00453	Suelo Residual	13	28	27.2337	60.1953	96.6552	7.89375	88.7614
109	0.0380622	3.01227	Suelo Residual	13	28	27.3151	60.3751	97.0137	7.91407	89.0996
110	0.0380622	3.01982	Suelo Residual	13	28	27.3955	60.5529	97.3677	7.9339	89.4338
111	0.0380622	3.02718	Suelo Residual	13	28	27.475	60.7285	97.7175	7.95323	89.7643
112	0.0380622	3.03435	Suelo Residual	13	28	27.5535	60.902	98.0627	7.97207	90.0906
113	0.0380622	3.04133	Suelo Residual	13	28	27.631	61.0733	98.4033	7.99042	90.4129
114	0.0380622	3.04813	Suelo Residual	13	28	27.7076	61.2426	98.7395	8.00828	90.7312
115	0.0380622	3.05474	Suelo Residual	13	28	27.7832	61.4098	99.0714	8.02565	91.0458

116	0.0380622	3.06117	Suelo Residual	13	28	27.8579	61.5749	99.3988	8.04254	91.3563
117	0.0380622	1.38326	Suelo Residual	13	28	18.8129	41.5825	57.39	3.63421	53.7558
118	0.0380622	0.470018	Suelo Residual	13	28	13.888	30.6969	34.5178	1.23487	33.2829
119	0.0380622	0.475896	Suelo Residual	13	28	13.9397	30.8113	34.7485	1.25031	33.4982
120	0.0380622	0.481593	Suelo Residual	13	28	13.9906	30.9236	34.9747	1.26528	33.7094
121	0.0380622	0.487108	Suelo Residual	13	28	14.0405	31.034	35.1967	1.27977	33.9169
122	0.0380622	0.492443	Suelo Residual	13	28	14.0895	31.1423	35.4144	1.29379	34.1207
123	0.0380622	0.497599	Suelo Residual	13	28	14.1376	31.2487	35.6282	1.30733	34.3208
124	0.0380622	0.502574	Suelo Residual	13	28	14.1848	31.353	35.8373	1.3204	34.5169
125	0.0380622	0.507371	Suelo Residual	13	28	14.2312	31.4554	36.0424	1.333	34.7094
126	0.0380622	0.51199	Suelo Residual	13	28	14.2765	31.5557	36.2434	1.34514	34.8983
127	0.0380622	0.51643	Suelo Residual	13	28	14.321	31.654	36.44	1.35681	35.0832
128	0.0380622	0.520694	Suelo Residual	13	28	14.3646	31.7504	36.6325	1.36801	35.2645
129	0.0380622	0.52478	Suelo Residual	13	28	14.4073	31.8447	36.8205	1.37874	35.4418
130	0.0380622	0.528691	Suelo Residual	13	28	14.4491	31.9371	37.0044	1.38902	35.6154
131	0.0380622	0.532425	Suelo Residual	13	28	14.4899	32.0274	37.1843	1.39883	35.7855
132	0.0380622	0.535983	Suelo Residual	13	28	14.5299	32.1158	37.3597	1.40818	35.9516
133	0.0380622	0.539366	Suelo Residual	13	28	14.569	32.2022	37.5312	1.41707	36.1141
134	0.0380622	0.542575	Suelo Residual	13	28	14.6072	32.2866	37.6984	1.42549	36.2729
135	0.0380622	0.545609	Suelo Residual	13	28	14.6445	32.369	37.8613	1.43347	36.4278
136	0.0380622	0.548468	Suelo Residual	13	28	14.6809	32.4494	38.0199	1.44098	36.5789
137	0.0380622	0.551154	Suelo Residual	13	28	14.7163	32.5278	38.1744	1.44803	36.7264
138	0.0380622	0.553666	Suelo Residual	13	28	14.7509	32.6042	38.3249	1.45463	36.8702
139	0.0380622	0.556005	Suelo Residual	13	28	14.7846	32.6786	38.471	1.46078	37.0102
140	0.0380622	0.55817	Suelo Residual	13	28	14.8174	32.7511	38.6127	1.46647	37.1463
141	0.0380622	0.560163	Suelo Residual	13	28	14.8492	32.8215	38.7506	1.4717	37.2789
142	0.0380622	0.561983	Suelo Residual	13	28	14.8802	32.8899	38.8841	1.47649	37.4076

143	0.0380622	0.56363	Suelo Residual	13	28	14.9102	32.9564	39.0132	1.48081	37.5324
144	0.0380622	0.565105	Suelo Residual	13	28	14.9394	33.0208	39.1384	1.48469	37.6537
145	0.0380622	0.566408	Suelo Residual	13	28	14.9677	33.0833	39.2591	1.48811	37.771
146	0.0380622	0.567539	Suelo Residual	13	28	14.995	33.1437	39.3759	1.49108	37.8849
147	0.0380622	0.568498	Suelo Residual	13	28	15.0214	33.2021	39.4883	1.4936	37.9947
148	0.0380622	0.569285	Suelo Residual	13	28	15.0469	33.2585	39.5964	1.49567	38.1008
149	0.0380622	0.569901	Suelo Residual	13	28	15.0715	33.3129	39.7003	1.49729	38.2031
150	0.0380622	0.570344	Suelo Residual	13	28	15.0952	33.3653	39.8	1.49845	38.3016
151	0.0380622	0.570616	Suelo Residual	13	28	15.118	33.4157	39.8955	1.49917	38.3963
152	0.0380622	0.570717	Suelo Residual	13	28	15.1399	33.4641	39.9866	1.49943	38.4872
153	0.0380622	0.570645	Suelo Residual	13	28	15.1609	33.5104	40.0738	1.49924	38.5746
154	0.0380622	0.570403	Suelo Residual	13	28	15.1809	33.5547	40.1565	1.49861	38.6579
155	0.0380622	0.569988	Suelo Residual	13	28	15.2001	33.597	40.2348	1.49752	38.7373
156	0.0380622	0.569402	Suelo Residual	13	28	15.2182	33.6372	40.3089	1.49598	38.8129
157	0.0380622	0.568644	Suelo Residual	13	28	15.2355	33.6754	40.3789	1.49399	38.8849
158	0.0380622	0.567714	Suelo Residual	13	28	15.2519	33.7116	40.4444	1.49154	38.9529
159	0.0380622	0.566613	Suelo Residual	13	28	15.2673	33.7457	40.5056	1.48865	39.0169
160	0.0380622	0.565339	Suelo Residual	13	28	15.2818	33.7777	40.5624	1.4853	39.0771
161	0.0380622	0.563893	Suelo Residual	13	28	15.2954	33.8077	40.6152	1.4815	39.1337
162	0.0380622	0.562275	Suelo Residual	13	28	15.308	33.8356	40.6634	1.47725	39.1861
163	0.0380622	0.560485	Suelo Residual	13	28	15.3197	33.8615	40.7072	1.47255	39.2347
164	0.0380622	0.558521	Suelo Residual	13	28	15.3304	33.8852	40.7467	1.46739	39.2793
165	0.0380622	0.556385	Suelo Residual	13	28	15.3403	33.9069	40.7819	1.46178	39.3201
166	0.0380622	0.554076	Suelo Residual	13	28	15.3491	33.9265	40.8127	1.45571	39.357
167	0.0380622	0.551594	Suelo Residual	13	28	15.3571	33.944	40.8392	1.44919	39.39
168	0.0380622	0.548937	Suelo Residual	13	28	15.364	33.9594	40.8611	1.44221	39.4189
169	0.0380622	0.546107	Suelo Residual	13	28	15.37	33.9727	40.8786	1.43478	39.4438

170	0.0380622	0.543103	Suelo Residual	13	28	15.3751	33.9838	40.8917	1.42688	39.4649
171	0.0380622	0.539925	Suelo Residual	13	28	15.3792	33.9929	40.9003	1.41853	39.4818
172	0.0380622	0.363353	Suelo Residual	13	28	79.408	175.517	306.603	0.954629	305.649
173	0.0380622	0.167645	Suelo Residual	13	28	13.2424	29.2699	31.0398	0.440451	30.5994
174	0.0380622	0.163941	Suelo Residual	13	28	13.2403	29.2654	31.0215	0.430719	30.5908
175	0.0380622	0.160061	Suelo Residual	13	28	13.2374	29.2588	30.9988	0.420524	30.5783
176	0.0380622	0.156004	Suelo Residual	13	28	13.2333	29.2499	30.9715	0.409867	30.5617
177	0.0380622	0.151771	Suelo Residual	13	28	13.2283	29.2388	30.9395	0.398745	30.5408
178	0.0380622	0.14736	Suelo Residual	13	28	13.2223	29.2255	30.9028	0.387157	30.5157
179	0.0380622	0.142772	Suelo Residual	13	28	13.2153	29.21	30.8616	0.375102	30.4865
180	0.0380622	0.138006	Suelo Residual	13	28	13.2072	29.1921	30.8157	0.362579	30.4531
181	0.0380622	0.13306	Suelo Residual	13	28	13.1981	29.1721	30.7648	0.349587	30.4152
182	0.0380622	0.127936	Suelo Residual	13	28	13.188	29.1497	30.7092	0.336123	30.3731
183	0.0380622	0.122631	Suelo Residual	13	28	13.1768	29.125	30.6489	0.322187	30.3267
184	0.0380622	0.117147	Suelo Residual	13	28	13.1647	29.0981	30.584	0.307777	30.2762
185	0.0380622	0.111481	Suelo Residual	13	28	13.1514	29.0688	30.5138	0.292891	30.2209
186	0.0380622	0.105633	Suelo Residual	13	28	13.1371	29.0372	30.439	0.277528	30.1615
187	0.0380622	0.0996035	Suelo Residual	13	28	13.1217	29.0032	30.3593	0.261686	30.0976
188	0.0380622	0.0933907	Suelo Residual	13	28	13.1053	28.9669	30.2747	0.245363	30.0294
189	0.0380622	0.0869942	Suelo Residual	13	28	13.0878	28.9282	30.1853	0.228558	29.9567
190	0.0380622	0.0804133	Suelo Residual	13	28	13.0692	28.8872	30.0907	0.211268	29.8794
191	0.0380622	0.0736473	Suelo Residual	13	28	13.0496	28.8437	29.9911	0.193492	29.7976
192	0.0380622	0.0666953	Suelo Residual	13	28	13.0288	28.7978	29.8866	0.175227	29.7114
193	0.0380622	0.0595565	Suelo Residual	13	28	13.0069	28.7494	29.7768	0.156472	29.6203
194	0.0380622	0.0522302	Suelo Residual	13	28	12.9839	28.6986	29.662	0.137223	29.5248
195	0.0380622	0.0447155	Suelo Residual	13	28	12.9598	28.6453	29.5419	0.11748	29.4245
196	0.0380622	0.0370114	Suelo Residual	13	28	12.9346	28.5895	29.4169	0.0972393	29.3196

197	0.0380622	0.0291172	Suelo Residual	13	28	12.9082	28.5312	29.2864	0.076499	29.2099
198	0.0380622	0.0210318	Suelo Residual	13	28	12.8807	28.4704	29.1509	0.0552564	29.0956
199	0.0380622	0.0127543	Suelo Residual	13	28	12.852	28.407	29.0098	0.0335091	28.9762
200	0.0380622	0.00428371	Suelo Residual	13	28	12.8221	28.341	28.8635	0.0112545	28.8522

Global Minimum Query (janbu simplified) - Safety Factor: 1.98631

Slice Number	Width [m]	Weight [kN]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]
1	0.0380622	0.0279521	Suelo Residual	13	28	8.87544	17.6294	8.78003	0.073438	8.70659
2	0.0380622	0.0830259	Suelo Residual	13	28	9.19854	18.2712	10.1317	0.218132	9.91362
3	0.0380622	0.136494	Suelo Residual	13	28	9.51493	18.8996	11.4542	0.358608	11.0956
4	0.0380622	0.188461	Suelo Residual	13	28	9.82496	19.5154	12.7489	0.49514	12.2537
5	0.0380622	0.239019	Suelo Residual	13	28	10.129	20.1192	14.0173	0.62797	13.3893
6	0.0380622	0.288252	Suelo Residual	13	28	10.4272	20.7116	15.2608	0.757318	14.5035
7	0.0380622	0.336234	Suelo Residual	13	28	10.72	21.2932	16.4805	0.883379	15.5971
8	0.0380622	0.383032	Suelo Residual	13	28	11.0075	21.8643	17.6777	1.00633	16.6713
9	0.0380622	0.428708	Suelo Residual	13	28	11.29	22.4255	18.8531	1.12634	17.7267
10	0.0380622	0.473318	Suelo Residual	13	28	11.5678	22.9772	20.0078	1.24354	18.7643
11	0.0380622	0.516913	Suelo Residual	13	28	11.8409	23.5197	21.1427	1.35807	19.7846
12	0.0380622	0.559539	Suelo Residual	13	28	12.1096	24.0534	22.2585	1.47006	20.7885
13	0.0380622	0.601238	Suelo Residual	13	28	12.3741	24.5787	23.3559	1.57962	21.7762
14	0.0380622	0.642052	Suelo Residual	13	28	12.6344	25.0958	24.4357	1.68685	22.7488
15	0.0380622	0.682016	Suelo Residual	13	28	12.8907	25.605	25.4985	1.79185	23.7066
16	0.0380622	0.721164	Suelo Residual	13	28	13.1433	26.1067	26.5447	1.8947	24.65
17	0.0380622	0.759528	Suelo Residual	13	28	13.3922	26.601	27.5751	1.99549	25.5796
18	0.0380622	0.797137	Suelo Residual	13	28	13.6374	27.0881	28.5902	2.0943	26.4959
19	0.0380622	0.834018	Suelo Residual	13	28	13.8792	27.5684	29.5904	2.1912	27.3992
20	0.0380622	0.870197	Suelo Residual	13	28	14.1176	28.042	30.5761	2.28625	28.2899

21	0.0380622	0.905697	Suelo Residual	13	28	14.3528	28.5091	31.548	2.37952	29.1685
22	0.0380622	0.940542	Suelo Residual	13	28	14.5848	28.9699	32.5061	2.47106	30.0351
23	0.0380622	0.974751	Suelo Residual	13	28	14.8137	29.4246	33.4511	2.56094	30.8902
24	0.0380622	1.00835	Suelo Residual	13	28	15.0396	29.8733	34.3832	2.64921	31.734
25	0.0380622	1.04134	Suelo Residual	13	28	15.2626	30.3162	35.3029	2.7359	32.567
26	0.0380622	1.07376	Suelo Residual	13	28	15.4827	30.7534	36.2104	2.82107	33.3893
27	0.0380622	1.10562	Suelo Residual	13	28	15.7001	31.1852	37.106	2.90477	34.2012
28	0.0380622	1.13693	Suelo Residual	13	28	15.9147	31.6115	37.9901	2.98703	35.003
29	0.0380622	1.16771	Suelo Residual	13	28	16.1267	32.0326	38.863	3.0679	35.7951
30	0.0380622	1.19797	Suelo Residual	13	28	16.3361	32.4485	39.7248	3.1474	36.5774
31	0.0380622	1.22773	Suelo Residual	13	28	16.543	32.8595	40.5759	3.22558	37.3503
32	0.0380622	1.25699	Suelo Residual	13	28	16.7474	33.2655	41.4163	3.30246	38.1139
33	0.0380622	1.28578	Suelo Residual	13	28	16.9494	33.6667	42.2466	3.37809	38.8685
34	0.0380622	1.31409	Suelo Residual	13	28	17.149	34.0633	43.0668	3.45249	39.6143
35	0.0380622	1.34195	Suelo Residual	13	28	17.3463	34.4552	43.8772	3.52569	40.3515
36	0.0380622	1.36937	Suelo Residual	13	28	17.5414	34.8426	44.6777	3.59771	41.08
37	0.0380622	1.39635	Suelo Residual	13	28	17.7342	35.2257	45.469	3.66859	41.8004
38	0.0380622	1.4229	Suelo Residual	13	28	17.9248	35.6043	46.2508	3.73834	42.5125
39	0.0380622	1.44903	Suelo Residual	13	28	18.1134	35.9788	47.0238	3.807	43.2168
40	0.0380622	1.47475	Suelo Residual	13	28	18.2998	36.349	47.7876	3.87458	43.913
41	0.0380622	1.50007	Suelo Residual	13	28	18.4841	36.7152	48.5429	3.94111	44.6018
42	0.0380622	1.525	Suelo Residual	13	28	18.6664	37.0773	49.2895	4.00661	45.2829
43	0.0380622	1.54955	Suelo Residual	13	28	18.8468	37.4355	50.0275	4.07109	45.9564
44	0.0380622	1.57371	Suelo Residual	13	28	19.0251	37.7898	50.7574	4.13458	46.6229
45	0.0380622	1.59751	Suelo Residual	13	28	19.2015	38.1402	51.479	4.1971	47.2819
46	0.0380622	1.62094	Suelo Residual	13	28	19.3761	38.4869	52.1926	4.25866	47.9339
47	0.0380622	1.64401	Suelo Residual	13	28	19.5488	38.83	52.8983	4.31928	48.579

48	0.0380622	1.66673	Suelo Residual	13	28	19.7196	39.1693	53.5964	4.37897	49.2174
49	0.0380622	1.68911	Suelo Residual	13	28	19.8887	39.5051	54.2865	4.43776	49.8487
50	0.0380622	1.71115	Suelo Residual	13	28	20.0559	39.8373	54.9694	4.49566	50.4737
51	0.0380622	1.73285	Suelo Residual	13	28	20.2215	40.1661	55.6447	4.55268	51.092
52	0.0380622	1.75423	Suelo Residual	13	28	20.3853	40.4915	56.3129	4.60884	51.704
53	0.0380622	1.77528	Suelo Residual	13	28	20.5473	40.8134	56.9736	4.66415	52.3094
54	0.0380622	1.79601	Suelo Residual	13	28	20.7077	41.132	57.6272	4.71862	52.9086
55	0.0380622	1.81643	Suelo Residual	13	28	20.8665	41.4474	58.274	4.77227	53.5017
56	0.0380622	1.83654	Suelo Residual	13	28	21.0237	41.7595	58.9139	4.82511	54.0887
57	0.0380622	1.85635	Suelo Residual	13	28	21.1792	42.0684	59.5467	4.87715	54.6695
58	0.0380622	1.87586	Suelo Residual	13	28	21.3331	42.3741	60.1731	4.9284	55.2447
59	0.0380622	1.89507	Suelo Residual	13	28	21.4854	42.6767	60.7927	4.97887	55.8138
60	0.0380622	1.91399	Suelo Residual	13	28	21.6362	42.9762	61.4056	5.02858	56.377
61	0.0380622	1.93262	Suelo Residual	13	28	21.7855	43.2727	62.0122	5.07753	56.9347
62	0.0380622	1.95097	Suelo Residual	13	28	21.9332	43.5662	62.6123	5.12573	57.4866
63	0.0380622	1.96903	Suelo Residual	13	28	22.0795	43.8567	63.2063	5.1732	58.0331
64	0.0380622	1.98682	Suelo Residual	13	28	22.2243	44.1443	63.7938	5.21994	58.5739
65	0.0380622	2.00434	Suelo Residual	13	28	22.3676	44.4289	64.3752	5.26596	59.1092
66	0.0380622	2.02159	Suelo Residual	13	28	22.5094	44.7107	64.9505	5.31127	59.6393
67	0.0380622	2.03857	Suelo Residual	13	28	22.6499	44.9897	65.5196	5.35588	60.1637
68	0.0380622	2.05528	Suelo Residual	13	28	22.7889	45.2658	66.083	5.3998	60.6832
69	0.0380622	2.07174	Suelo Residual	13	28	22.9265	45.5392	66.6402	5.44303	61.1972
70	0.0380622	2.08794	Suelo Residual	13	28	23.0628	45.8098	67.1919	5.48559	61.7063
71	0.0380622	2.10388	Suelo Residual	13	28	23.1976	46.0777	67.7375	5.52748	62.21
72	0.0380622	2.11957	Suelo Residual	13	28	23.3311	46.3428	68.2774	5.5687	62.7087
73	0.0380622	2.13501	Suelo Residual	13	28	23.4633	46.6053	68.8118	5.60927	63.2025
74	0.0380622	2.15021	Suelo Residual	13	28	23.5941	46.8652	69.3405	5.6492	63.6913

75	0.0380622	2.16516	Suelo Residual	13	28	23.7236	47.1225	69.8636	5.68848	64.1751
76	0.0380622	2.17987	Suelo Residual	13	28	23.8518	47.3771	70.381	5.72712	64.6539
77	0.0380622	2.19434	Suelo Residual	13	28	23.9787	47.6292	70.8931	5.76514	65.1279
78	0.0380622	2.20857	Suelo Residual	13	28	24.1043	47.8787	71.3998	5.80253	65.5973
79	0.0380622	2.22257	Suelo Residual	13	28	24.2287	48.1257	71.9011	5.83931	66.0618
80	0.0380622	2.23633	Suelo Residual	13	28	24.3518	48.3702	72.397	5.87547	66.5216
81	0.0380622	2.24987	Suelo Residual	13	28	24.4736	48.6122	72.8878	5.91103	66.9768
82	0.0380622	2.26317	Suelo Residual	13	28	24.5942	48.8517	73.3732	5.94599	67.4272
83	0.0380622	2.27625	Suelo Residual	13	28	24.7136	49.0888	73.8534	5.98035	67.8731
84	0.0380622	2.28911	Suelo Residual	13	28	24.8317	49.3235	74.3286	6.01413	68.3145
85	0.0380622	2.30174	Suelo Residual	13	28	24.9486	49.5557	74.7986	6.04731	68.7513
86	0.0380622	2.31415	Suelo Residual	13	28	25.0644	49.7856	75.2634	6.07992	69.1835
87	0.0380622	2.32635	Suelo Residual	13	28	25.1789	50.0131	75.7235	6.11196	69.6115
88	0.0380622	2.33832	Suelo Residual	13	28	25.2922	50.2382	76.1784	6.14342	70.035
89	0.0380622	2.35008	Suelo Residual	13	28	25.4044	50.461	76.6284	6.17431	70.4541
90	0.0380622	2.36163	Suelo Residual	13	28	25.5154	50.6815	77.0732	6.20465	70.8685
91	0.0380622	2.37296	Suelo Residual	13	28	25.6253	50.8997	77.5135	6.23442	71.2791
92	0.0380622	2.38408	Suelo Residual	13	28	25.7339	51.1156	77.9486	6.26364	71.6849
93	0.0380622	2.39499	Suelo Residual	13	28	25.8415	51.3292	78.3791	6.29231	72.0868
94	0.0380622	2.4057	Suelo Residual	13	28	25.9479	51.5406	78.8046	6.32044	72.4842
95	0.0380622	2.4162	Suelo Residual	13	28	26.0532	51.7497	79.2255	6.34802	72.8775
96	0.0380622	2.42649	Suelo Residual	13	28	26.1573	51.9566	79.6419	6.37506	73.2668
97	0.0380622	2.43658	Suelo Residual	13	28	26.2604	52.1613	80.0533	6.40157	73.6517
98	0.0380622	2.44647	Suelo Residual	13	28	26.3623	52.3637	80.4601	6.42755	74.0325
99	0.0380622	2.45615	Suelo Residual	13	28	26.4631	52.564	80.8622	6.453	74.4092
100	0.0380622	2.46564	Suelo Residual	13	28	26.5629	52.7621	81.2596	6.47792	74.7816
101	0.0380622	2.47493	Suelo Residual	13	28	26.6615	52.958	81.6525	6.50232	75.1502

102	0.0380622	2.48402	Suelo Residual	13	28	26.7591	53.1518	82.0409	6.5262	75.5147
103	0.0380622	2.49291	Suelo Residual	13	28	26.8556	53.3435	82.4246	6.54957	75.875
104	0.0380622	2.50161	Suelo Residual	13	28	26.951	53.533	82.804	6.57242	76.2315
105	0.0380622	2.51011	Suelo Residual	13	28	27.0453	53.7204	83.1785	6.59476	76.5838
106	0.0380622	2.59175	Suelo Residual	13	28	27.5703	54.7632	85.3544	6.80925	78.5451
107	0.0380622	2.99661	Suelo Residual	13	28	30.0028	59.5948	95.5051	7.87292	87.6321
108	0.0380622	3.00453	Suelo Residual	13	28	30.0984	59.7848	95.8831	7.89375	87.9894
109	0.0380622	3.01227	Suelo Residual	13	28	30.1931	59.9728	96.2572	7.91407	88.3431
110	0.0380622	3.01982	Suelo Residual	13	28	30.2867	60.1587	96.6265	7.9339	88.6926
111	0.0380622	3.02718	Suelo Residual	13	28	30.3792	60.3425	96.9916	7.95323	89.0383
112	0.0380622	3.03435	Suelo Residual	13	28	30.4707	60.5243	97.3522	7.97207	89.3802
113	0.0380622	3.04133	Suelo Residual	13	28	30.5612	60.704	97.7085	7.99042	89.7181
114	0.0380622	3.04813	Suelo Residual	13	28	30.6507	60.8817	98.0606	8.00828	90.0523
115	0.0380622	3.05474	Suelo Residual	13	28	30.7391	61.0573	98.4083	8.02565	90.3826
116	0.0380622	3.06117	Suelo Residual	13	28	30.8265	61.2309	98.7517	8.04254	90.7092
117	0.0380622	1.38326	Suelo Residual	13	28	20.8208	41.3565	56.965	3.63421	53.3308
118	0.0380622	0.470018	Suelo Residual	13	28	15.3726	30.5348	34.213	1.23487	32.9782
119	0.0380622	0.475896	Suelo Residual	13	28	15.4323	30.6533	34.4513	1.25031	33.201
120	0.0380622	0.481593	Suelo Residual	13	28	15.4909	30.7698	34.6855	1.26528	33.4202
121	0.0380622	0.487108	Suelo Residual	13	28	15.5486	30.8843	34.9154	1.27977	33.6356
122	0.0380622	0.492443	Suelo Residual	13	28	15.6053	30.9969	35.1411	1.29379	33.8473
123	0.0380622	0.497599	Suelo Residual	13	28	15.661	31.1076	35.3628	1.30733	34.0555
124	0.0380622	0.502574	Suelo Residual	13	28	15.7157	31.2162	35.58	1.3204	34.2596
125	0.0380622	0.507371	Suelo Residual	13	28	15.7694	31.3229	35.7934	1.333	34.4604
126	0.0380622	0.51199	Suelo Residual	13	28	15.8222	31.4277	36.0024	1.34514	34.6573
127	0.0380622	0.51643	Suelo Residual	13	28	15.8739	31.5304	36.2074	1.35681	34.8506
128	0.0380622	0.520694	Suelo Residual	13	28	15.9247	31.6313	36.4083	1.36801	35.0403

129	0.0380622	0.52478	Suelo Residual	13	28	15.9744	31.7301	36.605	1.37874	35.2262
130	0.0380622	0.528691	Suelo Residual	13	28	16.0232	31.8271	36.7975	1.38902	35.4085
131	0.0380622	0.532425	Suelo Residual	13	28	16.071	31.922	36.9859	1.39883	35.5871
132	0.0380622	0.535983	Suelo Residual	13	28	16.1178	32.015	37.1703	1.40818	35.7621
133	0.0380622	0.539366	Suelo Residual	13	28	16.1637	32.1061	37.3503	1.41707	35.9332
134	0.0380622	0.542575	Suelo Residual	13	28	16.2085	32.1952	37.5265	1.42549	36.101
135	0.0380622	0.545609	Suelo Residual	13	28	16.2524	32.2823	37.6981	1.43347	36.2647
136	0.0380622	0.548468	Suelo Residual	13	28	16.2953	32.3675	37.8661	1.44098	36.4251
137	0.0380622	0.551154	Suelo Residual	13	28	16.3372	32.4507	38.0297	1.44803	36.5816
138	0.0380622	0.553666	Suelo Residual	13	28	16.3781	32.532	38.189	1.45463	36.7343
139	0.0380622	0.556005	Suelo Residual	13	28	16.4181	32.6114	38.3445	1.46078	36.8837
140	0.0380622	0.55817	Suelo Residual	13	28	16.457	32.6887	38.4956	1.46647	37.0291
141	0.0380622	0.560163	Suelo Residual	13	28	16.495	32.7641	38.6426	1.4717	37.1709
142	0.0380622	0.561983	Suelo Residual	13	28	16.532	32.8376	38.7855	1.47649	37.309
143	0.0380622	0.56363	Suelo Residual	13	28	16.5679	32.909	38.9243	1.48081	37.4434
144	0.0380622	0.565105	Suelo Residual	13	28	16.6029	32.9786	39.0589	1.48469	37.5742
145	0.0380622	0.566408	Suelo Residual	13	28	16.6369	33.0461	39.1893	1.48811	37.7012
146	0.0380622	0.567539	Suelo Residual	13	28	16.67	33.1117	39.3155	1.49108	37.8245
147	0.0380622	0.568498	Suelo Residual	13	28	16.702	33.1753	39.4379	1.4936	37.9443
148	0.0380622	0.569285	Suelo Residual	13	28	16.733	33.2369	39.5557	1.49567	38.06
149	0.0380622	0.569901	Suelo Residual	13	28	16.763	33.2966	39.6696	1.49729	38.1723
150	0.0380622	0.570344	Suelo Residual	13	28	16.792	33.3542	39.7793	1.49845	38.2808
151	0.0380622	0.570616	Suelo Residual	13	28	16.8201	33.4099	39.8847	1.49917	38.3855
152	0.0380622	0.570717	Suelo Residual	13	28	16.8471	33.4636	39.9859	1.49943	38.4864
153	0.0380622	0.570645	Suelo Residual	13	28	16.8731	33.5153	40.083	1.49924	38.5838
154	0.0380622	0.570403	Suelo Residual	13	28	16.8982	33.565	40.1759	1.49861	38.6773
155	0.0380622	0.569988	Suelo Residual	13	28	16.9222	33.6127	40.2645	1.49752	38.767

156	0.0380622	0.569402	Suelo Residual	13	28	16.9452	33.6584	40.3488	1.49598	38.8528
157	0.0380622	0.568644	Suelo Residual	13	28	16.9672	33.7021	40.4291	1.49399	38.9351
158	0.0380622	0.567714	Suelo Residual	13	28	16.9882	33.7438	40.5051	1.49154	39.0135
159	0.0380622	0.566613	Suelo Residual	13	28	17.0082	33.7835	40.5767	1.48865	39.088
160	0.0380622	0.565339	Suelo Residual	13	28	17.0271	33.8211	40.644	1.4853	39.1587
161	0.0380622	0.563893	Suelo Residual	13	28	17.045	33.8567	40.7073	1.4815	39.2258
162	0.0380622	0.562275	Suelo Residual	13	28	17.0619	33.8903	40.7662	1.47725	39.2889
163	0.0380622	0.560485	Suelo Residual	13	28	17.0778	33.9218	40.8207	1.47255	39.3482
164	0.0380622	0.558521	Suelo Residual	13	28	17.0926	33.9513	40.871	1.46739	39.4036
165	0.0380622	0.556385	Suelo Residual	13	28	17.1064	33.9787	40.9171	1.46178	39.4553
166	0.0380622	0.554076	Suelo Residual	13	28	17.1192	34.0041	40.9586	1.45571	39.5029
167	0.0380622	0.551594	Suelo Residual	13	28	17.1309	34.0273	40.996	1.44919	39.5468
168	0.0380622	0.548937	Suelo Residual	13	28	17.1416	34.0486	41.0288	1.44221	39.5865
169	0.0380622	0.546107	Suelo Residual	13	28	17.1513	34.0677	41.0574	1.43478	39.6226
170	0.0380622	0.543103	Suelo Residual	13	28	17.1598	34.0847	41.0814	1.42688	39.6546
171	0.0380622	0.539925	Suelo Residual	13	28	17.1673	34.0996	41.1011	1.41853	39.6825
172	0.0380622	0.363353	Suelo Residual	13	28	88.6558	176.098	307.699	0.954629	306.745
173	0.0380622	0.167645	Suelo Residual	13	28	14.7872	29.372	31.2317	0.440451	30.7913
174	0.0380622	0.163941	Suelo Residual	13	28	14.7876	29.3727	31.2232	0.430719	30.7925
175	0.0380622	0.160061	Suelo Residual	13	28	14.7868	29.3712	31.2102	0.420524	30.7897
176	0.0380622	0.156004	Suelo Residual	13	28	14.785	29.3675	31.1926	0.409867	30.7828
177	0.0380622	0.151771	Suelo Residual	13	28	14.782	29.3616	31.1703	0.398745	30.7716
178	0.0380622	0.14736	Suelo Residual	13	28	14.7779	29.3535	31.1435	0.387157	30.7564
179	0.0380622	0.142772	Suelo Residual	13	28	14.7727	29.3431	31.112	0.375102	30.7369
180	0.0380622	0.138006	Suelo Residual	13	28	14.7663	29.3305	31.0759	0.362579	30.7133
181	0.0380622	0.13306	Suelo Residual	13	28	14.7589	29.3157	31.0349	0.349587	30.6853
182	0.0380622	0.127936	Suelo Residual	13	28	14.7503	29.2986	30.9893	0.336123	30.6532

183	0.0380622	0.122631	Suelo Residual	13	28	14.7405	29.2792	30.9391	0.322187	30.6169
184	0.0380622	0.117147	Suelo Residual	13	28	14.7296	29.2576	30.8839	0.307777	30.5761
185	0.0380622	0.111481	Suelo Residual	13	28	14.7175	29.2336	30.8239	0.292891	30.531
186	0.0380622	0.105633	Suelo Residual	13	28	14.7043	29.2073	30.7591	0.277528	30.4815
187	0.0380622	0.0996035	Suelo Residual	13	28	14.6899	29.1787	30.6895	0.261686	30.4278
188	0.0380622	0.0933907	Suelo Residual	13	28	14.6743	29.1477	30.6148	0.245363	30.3694
189	0.0380622	0.0869942	Suelo Residual	13	28	14.6575	29.1144	30.5354	0.228558	30.3068
190	0.0380622	0.0804133	Suelo Residual	13	28	14.6396	29.0787	30.4509	0.211268	30.2396
191	0.0380622	0.0736473	Suelo Residual	13	28	14.6204	29.0406	30.3615	0.193492	30.168
192	0.0380622	0.0666953	Suelo Residual	13	28	14.6	29.0001	30.2669	0.175227	30.0917
193	0.0380622	0.0595565	Suelo Residual	13	28	14.5783	28.9571	30.1676	0.156472	30.0111
194	0.0380622	0.0522302	Suelo Residual	13	28	14.5555	28.9117	30.0629	0.137223	29.9256
195	0.0380622	0.0447155	Suelo Residual	13	28	14.5314	28.8639	29.9531	0.11748	29.8356
196	0.0380622	0.0370114	Suelo Residual	13	28	14.506	28.8135	29.8381	0.0972393	29.7408
197	0.0380622	0.0291172	Suelo Residual	13	28	14.4794	28.7606	29.718	0.076499	29.6415
198	0.0380622	0.0210318	Suelo Residual	13	28	14.4515	28.7052	29.5924	0.0552564	29.5372
199	0.0380622	0.0127543	Suelo Residual	13	28	14.4224	28.6473	29.4619	0.0335091	29.4284
200	0.0380622	0.00428371	Suelo Residual	13	28	14.3919	28.5868	29.3257	0.0112545	29.3144

Global Minimum Query (janbu corrected) - Safety Factor: 2.12006

Slice Number	Width [m]	Weight [kN]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]
1	0.0380622	0.0279521	Suelo Residual	13	28	8.31551	17.6294	8.78003	0.073438	8.70659
2	0.0380622	0.0830259	Suelo Residual	13	28	8.61823	18.2712	10.1317	0.218132	9.91362
3	0.0380622	0.136494	Suelo Residual	13	28	8.91466	18.8996	11.4542	0.358608	11.0956
4	0.0380622	0.188461	Suelo Residual	13	28	9.20513	19.5154	12.7489	0.49514	12.2537
5	0.0380622	0.239019	Suelo Residual	13	28	9.48994	20.1192	14.0173	0.62797	13.3893
6	0.0380622	0.288252	Suelo Residual	13	28	9.76937	20.7116	15.2608	0.757318	14.5035

7	0.0380622	0.336234	Suelo Residual	13	28	10.0437	21.2932	16.4805	0.883379	15.5971
8	0.0380622	0.383032	Suelo Residual	13	28	10.3131	21.8643	17.6777	1.00633	16.6713
9	0.0380622	0.428708	Suelo Residual	13	28	10.5778	22.4255	18.8531	1.12634	17.7267
10	0.0380622	0.473318	Suelo Residual	13	28	10.838	22.9772	20.0078	1.24354	18.7643
11	0.0380622	0.516913	Suelo Residual	13	28	11.0939	23.5197	21.1427	1.35807	19.7846
12	0.0380622	0.559539	Suelo Residual	13	28	11.3456	24.0534	22.2585	1.47006	20.7885
13	0.0380622	0.601238	Suelo Residual	13	28	11.5934	24.5787	23.3559	1.57962	21.7762
14	0.0380622	0.642052	Suelo Residual	13	28	11.8373	25.0958	24.4357	1.68685	22.7488
15	0.0380622	0.682016	Suelo Residual	13	28	12.0775	25.605	25.4985	1.79185	23.7066
16	0.0380622	0.721164	Suelo Residual	13	28	12.3141	26.1067	26.5447	1.8947	24.65
17	0.0380622	0.759528	Suelo Residual	13	28	12.5473	26.601	27.5751	1.99549	25.5796
18	0.0380622	0.797137	Suelo Residual	13	28	12.777	27.0881	28.5902	2.0943	26.4959
19	0.0380622	0.834018	Suelo Residual	13	28	13.0036	27.5684	29.5904	2.1912	27.3992
20	0.0380622	0.870197	Suelo Residual	13	28	13.227	28.042	30.5761	2.28625	28.2899
21	0.0380622	0.905697	Suelo Residual	13	28	13.4473	28.5091	31.548	2.37952	29.1685
22	0.0380622	0.940542	Suelo Residual	13	28	13.6647	28.9699	32.5061	2.47106	30.0351
23	0.0380622	0.974751	Suelo Residual	13	28	13.8791	29.4246	33.4511	2.56094	30.8902
24	0.0380622	1.00835	Suelo Residual	13	28	14.0908	29.8733	34.3832	2.64921	31.734
25	0.0380622	1.04134	Suelo Residual	13	28	14.2997	30.3162	35.3029	2.7359	32.567
26	0.0380622	1.07376	Suelo Residual	13	28	14.5059	30.7534	36.2104	2.82107	33.3893
27	0.0380622	1.10562	Suelo Residual	13	28	14.7096	31.1852	37.106	2.90477	34.2012
28	0.0380622	1.13693	Suelo Residual	13	28	14.9107	31.6115	37.9901	2.98703	35.003
29	0.0380622	1.16771	Suelo Residual	13	28	15.1093	32.0326	38.863	3.0679	35.7951
30	0.0380622	1.19797	Suelo Residual	13	28	15.3055	32.4485	39.7248	3.1474	36.5774
31	0.0380622	1.22773	Suelo Residual	13	28	15.4993	32.8595	40.5759	3.22558	37.3503
32	0.0380622	1.25699	Suelo Residual	13	28	15.6908	33.2655	41.4163	3.30246	38.1139
33	0.0380622	1.28578	Suelo Residual	13	28	15.8801	33.6667	42.2466	3.37809	38.8685

34	0.0380622	1.31409	Suelo Residual	13	28	16.0671	34.0633	43.0668	3.45249	39.6143
35	0.0380622	1.34195	Suelo Residual	13	28	16.252	34.4552	43.8772	3.52569	40.3515
36	0.0380622	1.36937	Suelo Residual	13	28	16.4347	34.8426	44.6777	3.59771	41.08
37	0.0380622	1.39635	Suelo Residual	13	28	16.6154	35.2257	45.469	3.66859	41.8004
38	0.0380622	1.4229	Suelo Residual	13	28	16.794	35.6043	46.2508	3.73834	42.5125
39	0.0380622	1.44903	Suelo Residual	13	28	16.9707	35.9788	47.0238	3.807	43.2168
40	0.0380622	1.47475	Suelo Residual	13	28	17.1453	36.349	47.7876	3.87458	43.913
41	0.0380622	1.50007	Suelo Residual	13	28	17.318	36.7152	48.5429	3.94111	44.6018
42	0.0380622	1.525	Suelo Residual	13	28	17.4888	37.0773	49.2895	4.00661	45.2829
43	0.0380622	1.54955	Suelo Residual	13	28	17.6578	37.4355	50.0275	4.07109	45.9564
44	0.0380622	1.57371	Suelo Residual	13	28	17.8249	37.7898	50.7574	4.13458	46.6229
45	0.0380622	1.59751	Suelo Residual	13	28	17.9902	38.1402	51.479	4.1971	47.2819
46	0.0380622	1.62094	Suelo Residual	13	28	18.1537	38.4869	52.1926	4.25866	47.9339
47	0.0380622	1.64401	Suelo Residual	13	28	18.3155	38.83	52.8983	4.31928	48.579
48	0.0380622	1.66673	Suelo Residual	13	28	18.4756	39.1693	53.5964	4.37897	49.2174
49	0.0380622	1.68911	Suelo Residual	13	28	18.634	39.5051	54.2865	4.43776	49.8487
50	0.0380622	1.71115	Suelo Residual	13	28	18.7906	39.8373	54.9694	4.49566	50.4737
51	0.0380622	1.73285	Suelo Residual	13	28	18.9457	40.1661	55.6447	4.55268	51.092
52	0.0380622	1.75423	Suelo Residual	13	28	19.0992	40.4915	56.3129	4.60884	51.704
53	0.0380622	1.77528	Suelo Residual	13	28	19.2511	40.8134	56.9736	4.66415	52.3094
54	0.0380622	1.79601	Suelo Residual	13	28	19.4013	41.132	57.6272	4.71862	52.9086
55	0.0380622	1.81643	Suelo Residual	13	28	19.5501	41.4474	58.274	4.77227	53.5017
56	0.0380622	1.83654	Suelo Residual	13	28	19.6973	41.7595	58.9139	4.82511	54.0887
57	0.0380622	1.85635	Suelo Residual	13	28	19.843	42.0684	59.5467	4.87715	54.6695
58	0.0380622	1.87586	Suelo Residual	13	28	19.9872	42.3741	60.1731	4.9284	55.2447
59	0.0380622	1.89507	Suelo Residual	13	28	20.1299	42.6767	60.7927	4.97887	55.8138
60	0.0380622	1.91399	Suelo Residual	13	28	20.2712	42.9762	61.4056	5.02858	56.377

61	0.0380622	1.93262	Suelo Residual	13	28	20.4111	43.2727	62.0122	5.07753	56.9347
62	0.0380622	1.95097	Suelo Residual	13	28	20.5495	43.5662	62.6123	5.12573	57.4866
63	0.0380622	1.96903	Suelo Residual	13	28	20.6865	43.8567	63.2063	5.1732	58.0331
64	0.0380622	1.98682	Suelo Residual	13	28	20.8222	44.1443	63.7938	5.21994	58.5739
65	0.0380622	2.00434	Suelo Residual	13	28	20.9564	44.4289	64.3752	5.26596	59.1092
66	0.0380622	2.02159	Suelo Residual	13	28	21.0894	44.7107	64.9505	5.31127	59.6393
67	0.0380622	2.03857	Suelo Residual	13	28	21.221	44.9897	65.5196	5.35588	60.1637
68	0.0380622	2.05528	Suelo Residual	13	28	21.3512	45.2658	66.083	5.3998	60.6832
69	0.0380622	2.07174	Suelo Residual	13	28	21.4801	45.5392	66.6402	5.44303	61.1972
70	0.0380622	2.08794	Suelo Residual	13	28	21.6078	45.8098	67.1919	5.48559	61.7063
71	0.0380622	2.10388	Suelo Residual	13	28	21.7341	46.0777	67.7375	5.52748	62.21
72	0.0380622	2.11957	Suelo Residual	13	28	21.8592	46.3428	68.2774	5.5687	62.7087
73	0.0380622	2.13501	Suelo Residual	13	28	21.983	46.6053	68.8118	5.60927	63.2025
74	0.0380622	2.15021	Suelo Residual	13	28	22.1056	46.8652	69.3405	5.6492	63.6913
75	0.0380622	2.16516	Suelo Residual	13	28	22.227	47.1225	69.8636	5.68848	64.1751
76	0.0380622	2.17987	Suelo Residual	13	28	22.3471	47.3771	70.381	5.72712	64.6539
77	0.0380622	2.19434	Suelo Residual	13	28	22.466	47.6292	70.8931	5.76514	65.1279
78	0.0380622	2.20857	Suelo Residual	13	28	22.5837	47.8787	71.3998	5.80253	65.5973
79	0.0380622	2.22257	Suelo Residual	13	28	22.7002	48.1257	71.9011	5.83931	66.0618
80	0.0380622	2.23633	Suelo Residual	13	28	22.8155	48.3702	72.397	5.87547	66.5216
81	0.0380622	2.24987	Suelo Residual	13	28	22.9296	48.6122	72.8878	5.91103	66.9768
82	0.0380622	2.26317	Suelo Residual	13	28	23.0426	48.8517	73.3732	5.94599	67.4272
83	0.0380622	2.27625	Suelo Residual	13	28	23.1544	49.0888	73.8534	5.98035	67.8731
84	0.0380622	2.28911	Suelo Residual	13	28	23.2651	49.3235	74.3286	6.01413	68.3145
85	0.0380622	2.30174	Suelo Residual	13	28	23.3747	49.5557	74.7986	6.04731	68.7513
86	0.0380622	2.31415	Suelo Residual	13	28	23.4831	49.7856	75.2634	6.07992	69.1835
87	0.0380622	2.32635	Suelo Residual	13	28	23.5904	50.0131	75.7235	6.11196	69.6115

88	0.0380622	2.33832	Suelo Residual	13	28	23.6966	50.2382	76.1784	6.14342	70.035
89	0.0380622	2.35008	Suelo Residual	13	28	23.8017	50.461	76.6284	6.17431	70.4541
90	0.0380622	2.36163	Suelo Residual	13	28	23.9057	50.6815	77.0732	6.20465	70.8685
91	0.0380622	2.37296	Suelo Residual	13	28	24.0086	50.8997	77.5135	6.23442	71.2791
92	0.0380622	2.38408	Suelo Residual	13	28	24.1104	51.1156	77.9486	6.26364	71.6849
93	0.0380622	2.39499	Suelo Residual	13	28	24.2112	51.3292	78.3791	6.29231	72.0868
94	0.0380622	2.4057	Suelo Residual	13	28	24.3109	51.5406	78.8046	6.32044	72.4842
95	0.0380622	2.4162	Suelo Residual	13	28	24.4095	51.7497	79.2255	6.34802	72.8775
96	0.0380622	2.42649	Suelo Residual	13	28	24.5071	51.9566	79.6419	6.37506	73.2668
97	0.0380622	2.43658	Suelo Residual	13	28	24.6037	52.1613	80.0533	6.40157	73.6517
98	0.0380622	2.44647	Suelo Residual	13	28	24.6992	52.3637	80.4601	6.42755	74.0325
99	0.0380622	2.45615	Suelo Residual	13	28	24.7936	52.564	80.8622	6.453	74.4092
100	0.0380622	2.46564	Suelo Residual	13	28	24.8871	52.7621	81.2596	6.47792	74.7816
101	0.0380622	2.47493	Suelo Residual	13	28	24.9795	52.958	81.6525	6.50232	75.1502
102	0.0380622	2.48402	Suelo Residual	13	28	25.0709	53.1518	82.0409	6.5262	75.5147
103	0.0380622	2.49291	Suelo Residual	13	28	25.1613	53.3435	82.4246	6.54957	75.875
104	0.0380622	2.50161	Suelo Residual	13	28	25.2507	53.533	82.804	6.57242	76.2315
105	0.0380622	2.51011	Suelo Residual	13	28	25.3391	53.7204	83.1785	6.59476	76.5838
106	0.0380622	2.59175	Suelo Residual	13	28	25.831	54.7632	85.3544	6.80925	78.5451
107	0.0380622	2.99661	Suelo Residual	13	28	28.11	59.5948	95.5051	7.87292	87.6321
108	0.0380622	3.00453	Suelo Residual	13	28	28.1996	59.7848	95.8831	7.89375	87.9894
109	0.0380622	3.01227	Suelo Residual	13	28	28.2883	59.9728	96.2572	7.91407	88.3431
110	0.0380622	3.01982	Suelo Residual	13	28	28.3759	60.1587	96.6265	7.9339	88.6926
111	0.0380622	3.02718	Suelo Residual	13	28	28.4626	60.3425	96.9916	7.95323	89.0383
112	0.0380622	3.03435	Suelo Residual	13	28	28.5484	60.5243	97.3522	7.97207	89.3802
113	0.0380622	3.04133	Suelo Residual	13	28	28.6332	60.704	97.7085	7.99042	89.7181
114	0.0380622	3.04813	Suelo Residual	13	28	28.717	60.8817	98.0606	8.00828	90.0523

115	0.0380622	3.05474	Suelo Residual	13	28	28.7998	61.0573	98.4083	8.02565	90.3826
116	0.0380622	3.06117	Suelo Residual	13	28	28.8817	61.2309	98.7517	8.04254	90.7092
117	0.0380622	1.38326	Suelo Residual	13	28	19.5072	41.3565	56.965	3.63421	53.3308
118	0.0380622	0.470018	Suelo Residual	13	28	14.4028	30.5348	34.213	1.23487	32.9782
119	0.0380622	0.475896	Suelo Residual	13	28	14.4587	30.6533	34.4513	1.25031	33.201
120	0.0380622	0.481593	Suelo Residual	13	28	14.5136	30.7698	34.6855	1.26528	33.4202
121	0.0380622	0.487108	Suelo Residual	13	28	14.5677	30.8843	34.9154	1.27977	33.6356
122	0.0380622	0.492443	Suelo Residual	13	28	14.6208	30.9969	35.1411	1.29379	33.8473
123	0.0380622	0.497599	Suelo Residual	13	28	14.673	31.1076	35.3628	1.30733	34.0555
124	0.0380622	0.502574	Suelo Residual	13	28	14.7242	31.2162	35.58	1.3204	34.2596
125	0.0380622	0.507371	Suelo Residual	13	28	14.7745	31.3229	35.7934	1.333	34.4604
126	0.0380622	0.51199	Suelo Residual	13	28	14.824	31.4277	36.0024	1.34514	34.6573
127	0.0380622	0.51643	Suelo Residual	13	28	14.8724	31.5304	36.2074	1.35681	34.8506
128	0.0380622	0.520694	Suelo Residual	13	28	14.92	31.6313	36.4083	1.36801	35.0403
129	0.0380622	0.52478	Suelo Residual	13	28	14.9666	31.7301	36.605	1.37874	35.2262
130	0.0380622	0.528691	Suelo Residual	13	28	15.0124	31.8271	36.7975	1.38902	35.4085
131	0.0380622	0.532425	Suelo Residual	13	28	15.0571	31.922	36.9859	1.39883	35.5871
132	0.0380622	0.535983	Suelo Residual	13	28	15.101	32.015	37.1703	1.40818	35.7621
133	0.0380622	0.539366	Suelo Residual	13	28	15.144	32.1061	37.3503	1.41707	35.9332
134	0.0380622	0.542575	Suelo Residual	13	28	15.186	32.1952	37.5265	1.42549	36.101
135	0.0380622	0.545609	Suelo Residual	13	28	15.2271	32.2823	37.6981	1.43347	36.2647
136	0.0380622	0.548468	Suelo Residual	13	28	15.2673	32.3675	37.8661	1.44098	36.4251
137	0.0380622	0.551154	Suelo Residual	13	28	15.3065	32.4507	38.0297	1.44803	36.5816
138	0.0380622	0.553666	Suelo Residual	13	28	15.3448	32.532	38.189	1.45463	36.7343
139	0.0380622	0.556005	Suelo Residual	13	28	15.3823	32.6114	38.3445	1.46078	36.8837
140	0.0380622	0.55817	Suelo Residual	13	28	15.4188	32.6887	38.4956	1.46647	37.0291
141	0.0380622	0.560163	Suelo Residual	13	28	15.4543	32.7641	38.6426	1.4717	37.1709

142	0.0380622	0.561983	Suelo Residual	13	28	15.489	32.8376	38.7855	1.47649	37.309
143	0.0380622	0.56363	Suelo Residual	13	28	15.5227	32.909	38.9243	1.48081	37.4434
144	0.0380622	0.565105	Suelo Residual	13	28	15.5555	32.9786	39.0589	1.48469	37.5742
145	0.0380622	0.566408	Suelo Residual	13	28	15.5873	33.0461	39.1893	1.48811	37.7012
146	0.0380622	0.567539	Suelo Residual	13	28	15.6183	33.1117	39.3155	1.49108	37.8245
147	0.0380622	0.568498	Suelo Residual	13	28	15.6483	33.1753	39.4379	1.4936	37.9443
148	0.0380622	0.569285	Suelo Residual	13	28	15.6773	33.2369	39.5557	1.49567	38.06
149	0.0380622	0.569901	Suelo Residual	13	28	15.7055	33.2966	39.6696	1.49729	38.1723
150	0.0380622	0.570344	Suelo Residual	13	28	15.7327	33.3542	39.7793	1.49845	38.2808
151	0.0380622	0.570616	Suelo Residual	13	28	15.7589	33.4099	39.8847	1.49917	38.3855
152	0.0380622	0.570717	Suelo Residual	13	28	15.7843	33.4636	39.9859	1.49943	38.4864
153	0.0380622	0.570645	Suelo Residual	13	28	15.8087	33.5153	40.083	1.49924	38.5838
154	0.0380622	0.570403	Suelo Residual	13	28	15.8321	33.565	40.1759	1.49861	38.6773
155	0.0380622	0.569988	Suelo Residual	13	28	15.8546	33.6127	40.2645	1.49752	38.767
156	0.0380622	0.569402	Suelo Residual	13	28	15.8762	33.6584	40.3488	1.49598	38.8528
157	0.0380622	0.568644	Suelo Residual	13	28	15.8968	33.7021	40.4291	1.49399	38.9351
158	0.0380622	0.567714	Suelo Residual	13	28	15.9164	33.7438	40.5051	1.49154	39.0135
159	0.0380622	0.566613	Suelo Residual	13	28	15.9352	33.7835	40.5767	1.48865	39.088
160	0.0380622	0.565339	Suelo Residual	13	28	15.9529	33.8211	40.644	1.4853	39.1587
161	0.0380622	0.563893	Suelo Residual	13	28	15.9697	33.8567	40.7073	1.4815	39.2258
162	0.0380622	0.562275	Suelo Residual	13	28	15.9855	33.8903	40.7662	1.47725	39.2889
163	0.0380622	0.560485	Suelo Residual	13	28	16.0004	33.9218	40.8207	1.47255	39.3482
164	0.0380622	0.558521	Suelo Residual	13	28	16.0143	33.9513	40.871	1.46739	39.4036
165	0.0380622	0.556385	Suelo Residual	13	28	16.0272	33.9787	40.9171	1.46178	39.4553
166	0.0380622	0.554076	Suelo Residual	13	28	16.0392	34.0041	40.9586	1.45571	39.5029
167	0.0380622	0.551594	Suelo Residual	13	28	16.0502	34.0273	40.996	1.44919	39.5468
168	0.0380622	0.548937	Suelo Residual	13	28	16.0602	34.0486	41.0288	1.44221	39.5865

169	0.0380622	0.546107	Suelo Residual	13	28	16.0692	34.0677	41.0574	1.43478	39.6226
170	0.0380622	0.543103	Suelo Residual	13	28	16.0772	34.0847	41.0814	1.42688	39.6546
171	0.0380622	0.539925	Suelo Residual	13	28	16.0843	34.0996	41.1011	1.41853	39.6825
172	0.0380622	0.363353	Suelo Residual	13	28	83.0627	176.098	307.699	0.954629	306.745
173	0.0380622	0.167645	Suelo Residual	13	28	13.8543	29.372	31.2317	0.440451	30.7913
174	0.0380622	0.163941	Suelo Residual	13	28	13.8547	29.3727	31.2232	0.430719	30.7925
175	0.0380622	0.160061	Suelo Residual	13	28	13.8539	29.3712	31.2102	0.420524	30.7897
176	0.0380622	0.156004	Suelo Residual	13	28	13.8522	29.3675	31.1926	0.409867	30.7828
177	0.0380622	0.151771	Suelo Residual	13	28	13.8494	29.3616	31.1703	0.398745	30.7716
178	0.0380622	0.14736	Suelo Residual	13	28	13.8456	29.3535	31.1435	0.387157	30.7564
179	0.0380622	0.142772	Suelo Residual	13	28	13.8407	29.3431	31.112	0.375102	30.7369
180	0.0380622	0.138006	Suelo Residual	13	28	13.8347	29.3305	31.0759	0.362579	30.7133
181	0.0380622	0.13306	Suelo Residual	13	28	13.8278	29.3157	31.0349	0.349587	30.6853
182	0.0380622	0.127936	Suelo Residual	13	28	13.8197	29.2986	30.9893	0.336123	30.6532
183	0.0380622	0.122631	Suelo Residual	13	28	13.8106	29.2792	30.9391	0.322187	30.6169
184	0.0380622	0.117147	Suelo Residual	13	28	13.8004	29.2576	30.8839	0.307777	30.5761
185	0.0380622	0.111481	Suelo Residual	13	28	13.789	29.2336	30.8239	0.292891	30.531
186	0.0380622	0.105633	Suelo Residual	13	28	13.7766	29.2073	30.7591	0.277528	30.4815
187	0.0380622	0.0996035	Suelo Residual	13	28	13.7631	29.1787	30.6895	0.261686	30.4278
188	0.0380622	0.0933907	Suelo Residual	13	28	13.7485	29.1477	30.6148	0.245363	30.3694
189	0.0380622	0.0869942	Suelo Residual	13	28	13.7328	29.1144	30.5354	0.228558	30.3068
190	0.0380622	0.0804133	Suelo Residual	13	28	13.716	29.0787	30.4509	0.211268	30.2396
191	0.0380622	0.0736473	Suelo Residual	13	28	13.698	29.0406	30.3615	0.193492	30.168
192	0.0380622	0.0666953	Suelo Residual	13	28	13.6789	29.0001	30.2669	0.175227	30.0917
193	0.0380622	0.0595565	Suelo Residual	13	28	13.6586	28.9571	30.1676	0.156472	30.0111
194	0.0380622	0.0522302	Suelo Residual	13	28	13.6372	28.9117	30.0629	0.137223	29.9256
195	0.0380622	0.0447155	Suelo Residual	13	28	13.6147	28.8639	29.9531	0.11748	29.8356

196	0.0380622	0.0370114	Suelo Residual	13	28	13.5909	28.8135	29.8381	0.0972393	29.7408
197	0.0380622	0.0291172	Suelo Residual	13	28	13.5659	28.7606	29.718	0.076499	29.6415
198	0.0380622	0.0210318	Suelo Residual	13	28	13.5398	28.7052	29.5924	0.0552564	29.5372
199	0.0380622	0.0127543	Suelo Residual	13	28	13.5125	28.6473	29.4619	0.0335091	29.4284
200	0.0380622	0.00428371	Suelo Residual	13	28	13.484	28.5868	29.3257	0.0112545	29.3144

List Of Coordinates

Line Load

X	Y
34.8494	3017.15
34.4494	3017.15
25.7355	3017.15
12.2493	3017.15
12.2493	3017.55
10.3493	3017.55

Line Load

X	Y
49.2493	3013.9
48.8493	3013.9
36.9494	3013.9
36.9494	3014.3
34.8494	3014.3

Line Load

X	Y
59.8993	3011.1
51.0493	3011.22
51.0493	3011.65
49.2493	3011.65

External Boundary

X	Y
0	3000
5	3000
86.966	3000
86.966	3005.94
86.966	3007.84
77.0045	3007.84

77.0045	3008.04
73.5045	3008.04
69.6609	3009.08
62.2407	3011.1
59.8993	3011.1
51.0493	3011.22
51.0493	3011.65
49.2493	3011.65
49.2493	3013.9
48.8493	3013.9
36.9494	3013.9
36.9494	3014.3
34.8494	3014.3
34.8494	3017.15
34.4494	3017.15
25.7355	3017.15
12.2493	3017.15
12.2493	3017.55
10.3493	3017.55
10.3493	3019.75
9.94935	3019.75
5.5	3019.75
5.5	3021
0	3021
-8.88178e-016	3017.33
-8.88178e-016	3014.62

Material Boundary

X	Y
-8.88178e-016	3017.33
6.91887	3017.33
8.95311	3016.9
10.9834	3016.44
13.0079	3015.97
15.0247	3015.46
17.0345	3014.92
19.0396	3014.36
21.0423	3013.79
23.0451	3013.23
25.0502	3012.67
27.0601	3012.13
29.0771	3011.62
31.1035	3011.16
33.1418	3010.74
35.193	3010.38
37.2551	3010.1
39.3255	3009.91
41.402	3009.81

43.4825	3009.77
45.5649	3009.76
47.6471	3009.74
49.728	3009.7
51.8077	3009.65
53.8866	3009.58
55.9651	3009.51
58.0436	3009.44
60.1222	3009.37
62.2009	3009.3
64.2799	3009.24
66.359	3009.18
68.4383	3009.12
69.6609	3009.08

Material Boundary

X	Y
-8.88178e-016	3014.62
6.91887	3014.62
8.95311	3014.19
10.9834	3013.73
13.0079	3013.25
15.0247	3012.75
17.0345	3012.21
19.0396	3011.65
21.0423	3011.08
23.0451	3010.51
25.0502	3009.96
27.0601	3009.42
29.0771	3008.91
31.1035	3008.44
33.1418	3008.03
35.193	3007.67
37.2551	3007.39
39.3255	3007.2
41.402	3007.1
43.4825	3007.06
45.5649	3007.04
47.6471	3007.03
49.728	3006.99
51.8077	3006.94
53.8866	3006.87
55.9651	3006.8
58.0436	3006.73
60.1222	3006.66
62.2009	3006.59
64.2799	3006.53
66.359	3006.47

68.4383	3006.41
70.5177	3006.35
72.5972	3006.29
74.6768	3006.24
76.7565	3006.18
78.8363	3006.13
80.9162	3006.08
82.9961	3006.03
85.076	3005.98
86.966	3005.94

Material Boundary

X	Y
34.4494	3017.15
34.4494	3014.73
34.4494	3013.9
36.9494	3013.9

Material Boundary

X	Y
48.8493	3013.9
48.8493	3011.25
51.0493	3011.22

Material Boundary

X	Y
9.94935	3019.75
9.94935	3017.15
12.2493	3017.15