

GeoSuite Settlement Report

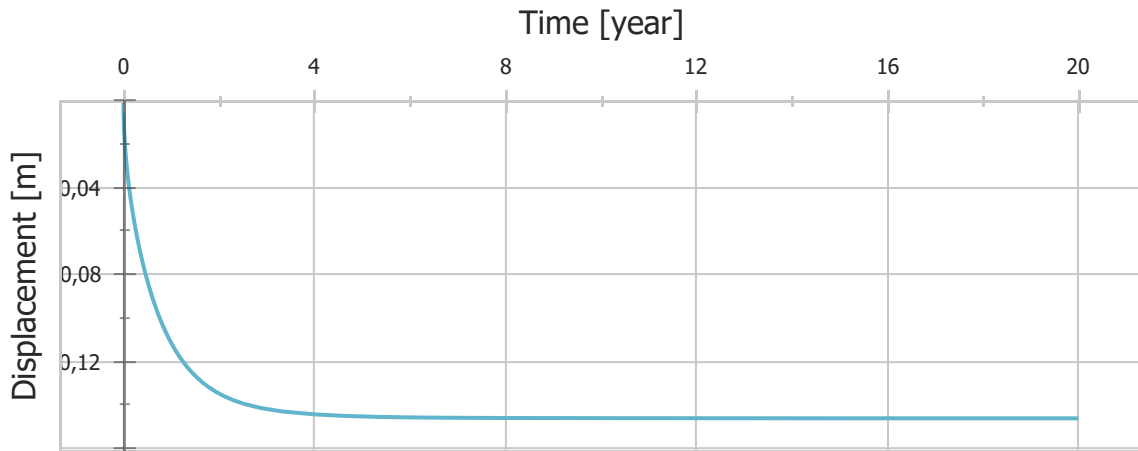
Project data

Project name: DP Hällbybrunn
Project number: 30074342
Contractor:
Comment:

Calculation name: 1m överbyggnad_Bef förhållanden
Description: Beräkning med 1m ny överbyggnad. 7m vägbredd.
File name: P:\22414\30074342_DP_Hällbybrunn_Geoteknik\000\15_Arbetsmaterial
CAD\Autograf\POSTGRÄF.DBF\1m överbyggnad_Bef förhållanden.sxml
Date modified: 2024-06-18 13:33

Summary

Point No 1, Under vägbank



— Point No 1, Depth 0 m, Under vägbank

Depth [m]	Displacement [m]	Time [years]
0,00	0,146	20,000

Soil layers

Point No 1, Under vägbank

Layer Let [Chalmers without creep, Log based (strain)]

Depth [m]	Sub-layers	Soil Weight [kN/m ³]	M0 [kN/m ²]	ML [kN/m ²]	M' [-]	a0 [-]	a1 [-]	sig_pc [kN/m ²]	sig_pL [kN/m ²]
0,00	10	17	9000	3000	5	0,8	1	50	80
1		17	9000	3000	5	0,8	1	30	80

Depth [m]	k_init [m/years]	Beta_k [-]							
0,00	1	1							
1	1	1							

Layer Le1 [Chalmers without creep, Log based (strain)]

Depth [m]	Sub-layers	Soil Weight [kN/m ³]	M0 [kN/m ²]	ML [kN/m ²]	M' [-]	a0 [-]	a1 [-]	sig_pc [kN/m ²]	sig_pL [kN/m ²]
1	15	16,5	2500	520	14,2	0,8	1	30	69
2,5		16,5	2500	520	14,2	0,8	1	30	69

Depth [m]	k_init [m/years]	Beta_k [-]							
1	0,041	2,1							
2,5	0,041	2,1							

Layer Le2 [Chalmers without creep, Log based (strain)]

Depth [m]	Sub-layers	Soil Weight [kN/m ³]	M0 [kN/m ²]	ML [kN/m ²]	M' [-]	a0 [-]	a1 [-]	sig_pc [kN/m ²]	sig_pL [kN/m ²]
2,5	15	16,3	2500	245	14,1	0,8	1	32	62
4		16,3	2500	245	14,1	0,8	1	36,2	62

Depth [m]	k_init [m/years]	Beta_k [-]							
2,5	0,0505	2,7							
4	0,0505	2,7							

Layer Mn [Chalmers without creep, Log based (strain)]

Depth [m]	Sub-layers	Soil Weight [kN/m ³]	M0 [kN/m ²]	ML [kN/m ²]	M' [-]	a0 [-]	a1 [-]	sig_pc [kN/m ²]	sig_pL [kN/m ²]
4	20	20	20000	20000	2	0,8	1	150	300
6		20	20000	20000	2	0,8	1	150	300

Depth [m]	k_init [m/years]	Beta_k [-]							
4	1	1							
6	1	1							

Pore pressure

Point No 1, Under vägbank

Time: 0,0 years

Ground water level: 1,00 m below ground surface

Depth [m]	Pore pressure [kPa]	Condition
0,00	0,00	Drainage
1,00	0,00	Drainage
4,00	30,00	Normal
6,00	50,00	Drainage

Load stresses

Point No 1, Under vägbank

Time: 0,0 years

Depth [m]	Ex. stress [kPa]
0,00	20,00
0,88	19,94
1,12	19,88
1,30	19,82
1,44	19,76
1,56	19,70
1,67	19,64
1,77	19,58
1,86	19,52
1,95	19,46
2,03	19,40
2,11	19,34
2,19	19,27
2,26	19,21
2,33	19,15
2,40	19,09
2,47	19,02
2,54	18,95
2,60	18,89
2,66	18,83
2,72	18,77
2,78	18,71
2,84	18,64
2,90	18,58
2,96	18,51
3,02	18,44
3,08	18,37
3,14	18,30
3,19	18,24
3,24	18,18
3,29	18,12
3,34	18,06
3,39	18,00
3,44	17,94
3,49	17,88
3,54	17,81
3,59	17,75
3,64	17,69
3,69	17,62
3,74	17,56

3,79	17,49
3,84	17,43
3,89	17,36
3,94	17,30
3,99	17,23
4,04	17,17
4,09	17,10
4,14	17,03
4,19	16,97
4,24	16,90
4,29	16,83
4,34	16,77
4,39	16,70
4,44	16,63
4,49	16,57
4,54	16,50
4,59	16,43
4,64	16,37
4,69	16,30
4,74	16,23
4,79	16,16
4,84	16,10
4,89	16,03
4,94	15,96
4,99	15,90
5,04	15,83
5,09	15,76
5,14	15,70
5,19	15,63
5,24	15,57
5,29	15,50
5,34	15,43
5,39	15,37
5,44	15,30
5,49	15,24
5,54	15,17
5,59	15,11
5,64	15,04
5,69	14,98
5,74	14,92
5,79	14,85
5,84	14,79
5,89	14,73
5,94	14,66
5,99	14,60
6,00	14,59

Displacement versus Time - Graph

Displacement versus Time - Graph for Point No 1, Under vägbank

