

GeoSuite Settlement Report

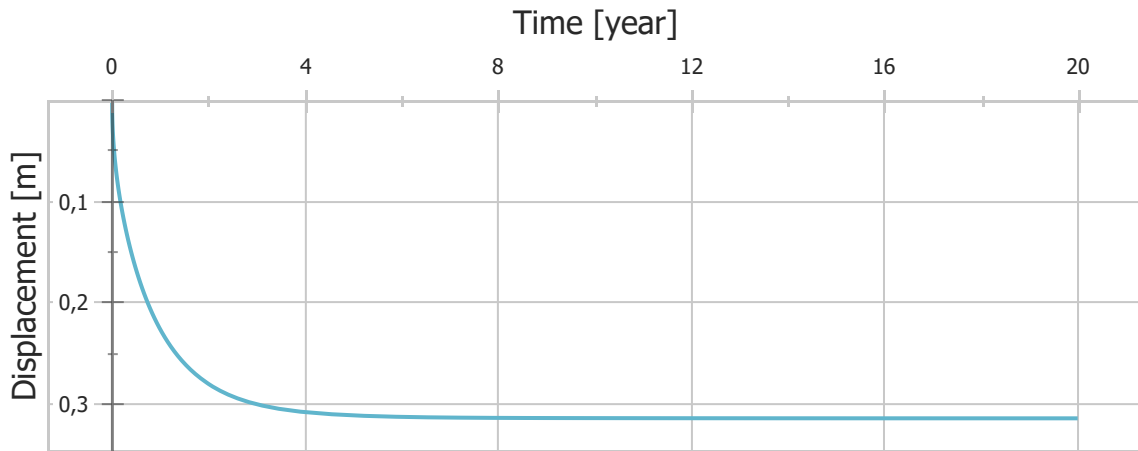
Project data

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

Calculation name: 2m överbyggnad_Bef förhållanden
Description: Beräkning med 2m ny överbyggnad. 7m vägbredd.
File name: P:\22414\30074342_DP_Hällbybrunn_Geoteknik\000\15_Arbetsmaterial
CAD\Autograf\POSTGRÄF.DBF\2m överbyggnad_Bef förhållanden.sxml
Date modified: 2024-06-18 13:27

Summary

Point No 1, Under vägbank



— Point No 1, Depth 0 m, Under vägbank

Depth [m]	Displacement [m]	Time [years]
0,00	0,314	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
5,00	40,00	Normal
6,00	50,00	Drainage

Load stresses

Point No 1, Under vägbank

Time: 0,0 years

Depth [m]	Ex. stress [kPa]
0,00	40,00
0,86	39,89
1,09	39,78
1,26	39,67
1,40	39,56
1,52	39,44
1,63	39,33
1,73	39,21
1,82	39,10
1,90	38,99
1,98	38,87
2,06	38,75
2,13	38,64
2,20	38,53
2,27	38,41
2,34	38,28
2,40	38,17
2,46	38,06
2,52	37,95
2,58	37,83
2,64	37,71
2,70	37,58
2,76	37,46
2,82	37,33
2,87	37,22
2,92	37,11
2,97	37,00
3,02	36,88
3,07	36,77
3,12	36,65
3,17	36,53
3,22	36,41
3,27	36,29
3,32	36,17
3,37	36,05
3,42	35,93
3,47	35,80
3,52	35,68
3,57	35,55
3,62	35,42

3,67	35,30
3,72	35,17
3,77	35,04
3,82	34,91
3,87	34,78
3,92	34,65
3,97	34,52
4,02	34,38
4,07	34,25
4,12	34,12
4,17	33,99
4,22	33,85
4,27	33,72
4,32	33,59
4,37	33,45
4,42	33,32
4,47	33,19
4,52	33,05
4,57	32,92
4,62	32,78
4,67	32,65
4,72	32,52
4,77	32,38
4,82	32,25
4,87	32,11
4,92	31,98
4,97	31,85
5,02	31,71
5,07	31,58
5,12	31,45
5,17	31,32
5,22	31,18
5,27	31,05
5,32	30,92
5,37	30,79
5,42	30,66
5,47	30,53
5,52	30,40
5,57	30,27
5,62	30,14
5,67	30,01
5,72	29,88
5,77	29,76
5,82	29,63
5,87	29,50
5,92	29,37
5,97	29,25
6,00	29,17

Displacement versus Time - Graph

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

