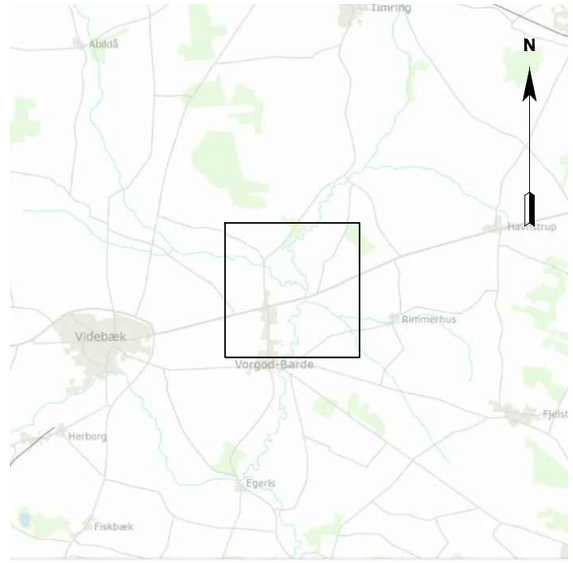

Legend:

Boreholde with CPT

b a — a: Point no., b: Level

Planned cable route

Planned HDD

0 — 100 — Location of longitudinal profile (Encl. 3.1.3)

ERT line (Encl. 3.4)

Coordinate system: UTM32E89 Level: DVR90

0 40 80 m

Project: 207865. HESV-VID - Forundersøgelser for HDD

Subject: Siteplan - Location 1C

Scale	1:1000 (A3)		Page 1 / 1
Report	3	Encl. 3.1.2	Rev.

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L:\projekter\207001-208000\207865_Energinet_150 kV_Midt- og vestjylland_HDD_JDO\7_Tegninger\207865_Situationsplan.dwg 2023-12-06 kdu A3 (1C.01)

Horz. Scale: 1:500
Vert. Scale: 1:200

Top soil / Fill		Terrain (Dansk Højde Model)	
Sand / Gravel		Borehole	
Clay till		Cone penetration test tip resistance, q_c	
Silt		d:XXm	Distance between ERT-line and borehole
Clay		Planned HDD	
Clay/peat -postglacial		ERT profile: 1C-1	

x 1:500 — 0, 20, 40 m
y 1:200 — 0, 10, 20 m

Project: 207865 HESV-VID - Forundersøgelser for HDD	Scale x 1:500 y 1:200	Page 1 / 1
Subject: Longitudinal profile - Location 1C	Report 3	Encl. 3.1.3 Rev. 1

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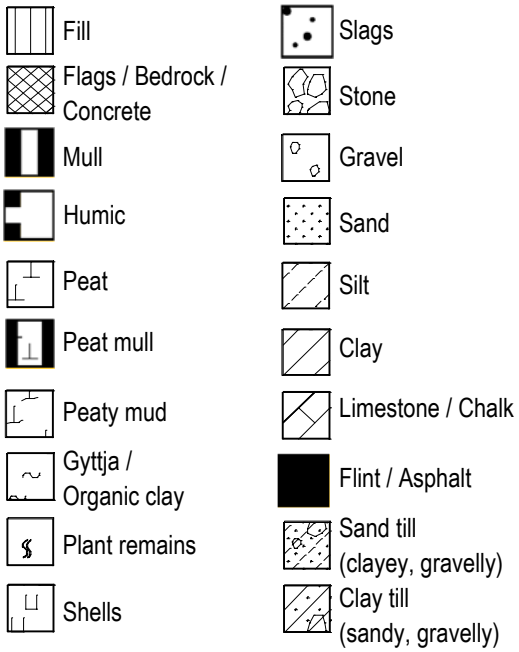
Geo-Standard: Legends and Abbreviations

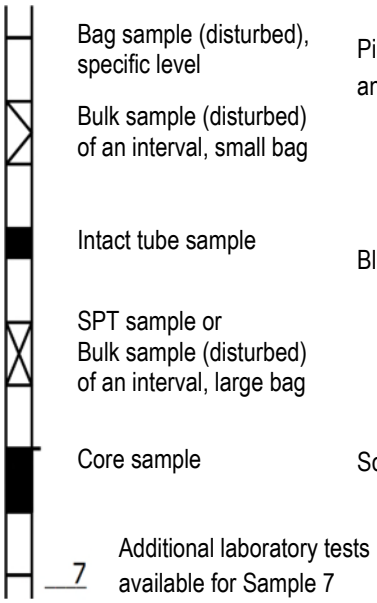
Borehole Profiles. Geotechnical, cored and environmental boreholes

Description according to dgf-Bulletin 1, Rev. 1, May 1995

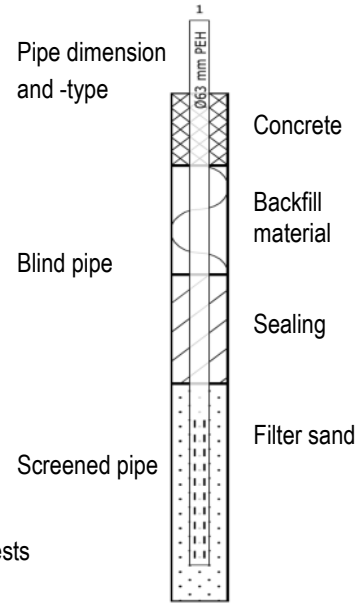
Soil Types



Samples



Well installation



Deposit

Ae	Aeolian (wind)
Br	Brackish
Fi	Fill
Fw	Freshwater
Gl	Glacier
Gr	Igneous / Metamorphic / Bedrock
Ls	Landslide
Ma	Marine
Mw	Meltwater
Ss	Solifluction
Ts	Topsoil
Vo	Volcanic
Wd	Wash down

Geological age

Re	Recent
Pg	Postglacial
Lg	Lateglacial
Gc	Glacial
Ig	Interglacial
Is	Interstadial
Te	Tertiary
Nn	Neogene (late Tertiary)
Pn	Paleogene (early Tertiary)
Mi	Miocene
Ol	Oligocene
Eo	Eocene
Pl	Paleocene
Se	Selandien
Da	Danien
Kr	Cretaceons
Ju	Jurassic
Tr	Triassic
Si	Silurian
Ca	Cambrian
Pk	Precambrian

General abbreviations

sl.	slightly
v.	very
w.	with
lam.	lamina(e)
fragm.	fragments
biot.	bioturbation
bryo.	bryozoans
calc.	calcareous
noncalc.	noncalcareous
glauc.	glauconite
T	top of sample
B	bottom of sample

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Core samples

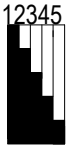
Recovery: Ratio in percentage between sample length and length of core run (Total Core Recovery, TCR). Value appears at top of core run.

RQD: Rock Quality Designation. Ratio in percentage between total length of core pieces with length more than 100 mm, and length of core run. Value appears at top of core run.

Fractures

1 = S1	Unfractured	No fractures	
2 = S2	Slightly fractured	Fracture spacing larger than	10 cm
3 = S3	Fractured	Fracture spacing between	6 and 10 cm
4 = S4	Very fractured	Fracture spacing between	2 and 6 cm
5 = S5	Crushed	Fracture spacing less than	2 cm

Induration



1 = H1	Unlithified	Can easily be shaped with fingers
2 = H2	Slightly indurated	Can easily be worked with knife
3 = H3	Indurated	Can be worked with knife
4 = H4	Strongly indurated	Can be scratched with knife
5 = H5	Very strongly indurated	Cannot be scratched with knife

Forsøg

c_{fv}	Shear strength	(kN/m²)	Measured by vane test in undisturbed soil
c_{rv}	Shear strength	(kN/m²)	Measured by vane test in remoulded
N	Standard penetrations test (SPT)		Number of blows per 0.3 m penetration of Ø51 mm SPT probe by use of the energy h • G = 0,76 m • 0,635 kN
w	Water content	(%)	Ratio between weight of water and weight of grains
w_p	Plastic limit	(%)	Water content at the boundary between semisolid and plastic state; NP: Non plastic
w_L	Liquid limit	(%)	Water content at the boundary between plastic and liquid state
I_P	Plasticity index	(%)	wL – wP
γ	Unit weight	(kN/m³)	Ratio between total weight and total volume
e	Void ratio		Ratio between pore volume and grain volume
e_{max}	Void ratio, loosest state		Void ratio of very loose standard state
e_{min}	Void ratio, densest state		Void ratio of very dense standard state
I_D	Relative density		(emax – e)/ (emax – emin)
ka	Carbonate content	(%)	Ratio between weight of carbonate and total grain weight
gl	Loss of ignition	(%)	Weight loss by prolonged heating, in percent of total grain weight

Addtional tests, referenced at the borehole profile

In situ tests:

PR	Pressiometer
FH	Falling Head
PP	Pumping
EL	Elastmeter
GA	Gammalog

Laboratory tests:

B	Brazil	S	Simple shear
C	Consolidation	T	Triaxial
D	Specific gravity	U	Unconfined compression
E	emax and emin	V	Shear box
F	Photo	W	Vibration compaction
G	Grain size analysis	SP	Standard proctor test
P	Point load	MP	Modified proctor test

References

Danish Standard:

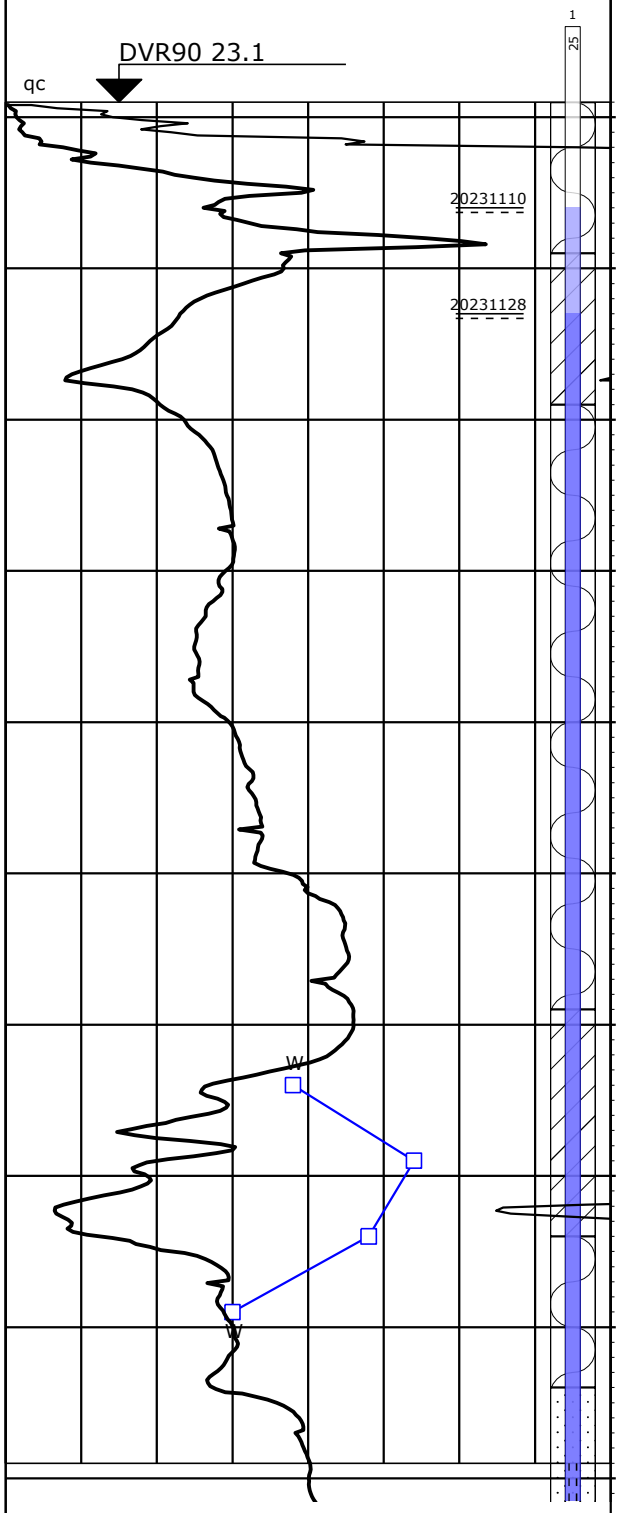
DS/EN 1997-1:2007 – Geoteknik-Del 1

Danish Geotechnical Society:

- ” A guide to engineering geological soil description” (dgf-Bulletin 1, Rev. 1, May 1995)
- ”Felthåndbogen” (dgf-Bulletin 14)

Danish Geotechnical Society:

- ”Laboratoriehåndbogen” (dgf-Bulletin 15)
- ”Referenceblad for vingeforsøg”
- ”Referenceblad for SPT-forsøg”



No.	Geological Description	Env.	Age
1	MULL: PEAT, gravelly, noncalcareous, dark greyish brown	Ts	Re
2	SAND, medium, graded, gravelly, very organic, dark greyish brown	Fw	Pg
3	SAND, medium, uniform graded, sl. silty, noncalcareous, w. ochre, organic, dark reddish brown	Fw	Pg
4	SAND, medium, uniform graded, sl. silty, noncalcareous, brownish grey	Fw	Pg
5	SAND - -	Fw	Pg
6	SAND, medium, uniform graded, sl. silty, noncalcareous, grey	Mw	Lg/ Gc
7	SAND - -	Mw	Lg/ Gc
8	SAND, medium, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Lg/ Gc
9	SAND, medium, uniform graded, noncalcareous, grey	Mw	Lg/ Gc
10	SAND, medium - coarse, uniform graded, noncalcareous, grey	Mw	Lg/ Gc
11	SAND, medium - coarse, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Lg/ Gc
12	SAND - -	Mw	Lg/ Gc
13	SAND - -	Mw	Lg/ Gc
14	SAND, medium - coarse, uniform graded, sl. silty, sl. calcareous, w. clay layers, grey	Mw	Lg/ Gc
15	CLAY, medium plasticity, sl. calcareous, w. sand laminae, dark grey	Mw	Lg/ Gc
16	CLAY, low plasticity, silty, sl. sandy, noncalcareous, w. sand laminae, dark grey	Mw	Lg/ Gc
17	SAND, medium, graded, clayey, noncalcareous, w. clay laminae, dark grey	Mw	Lg/ Gc
18	SAND, medium - coarse, uniform graded, noncalcareous, grey	Mw	Lg/ Gc
19	SAND - -	Mw	Lg/ Gc

Continues

10 20 30 W (%)
1 2 3 qc (MPa)
10 20 30 qc (MPa)

Soil description acc. to dgf-Bulletin 1, Revision 2, December 2021

Coordinate system: UTM32E89
X : 482444 (m) Y : 6217876 (m)

Job: 207865 HESV-VID - Forundersøgelser for styrede underboringer (HDD)

Drilled by: Geo PKN/JEP Date: 2023-11-10 Geology by: NIO Borehole: 1C.01

Method: Cased Shell & Auger 6'' DGU no: Encl. No.: 3.2.1 Rev.: 0 P. 1/3

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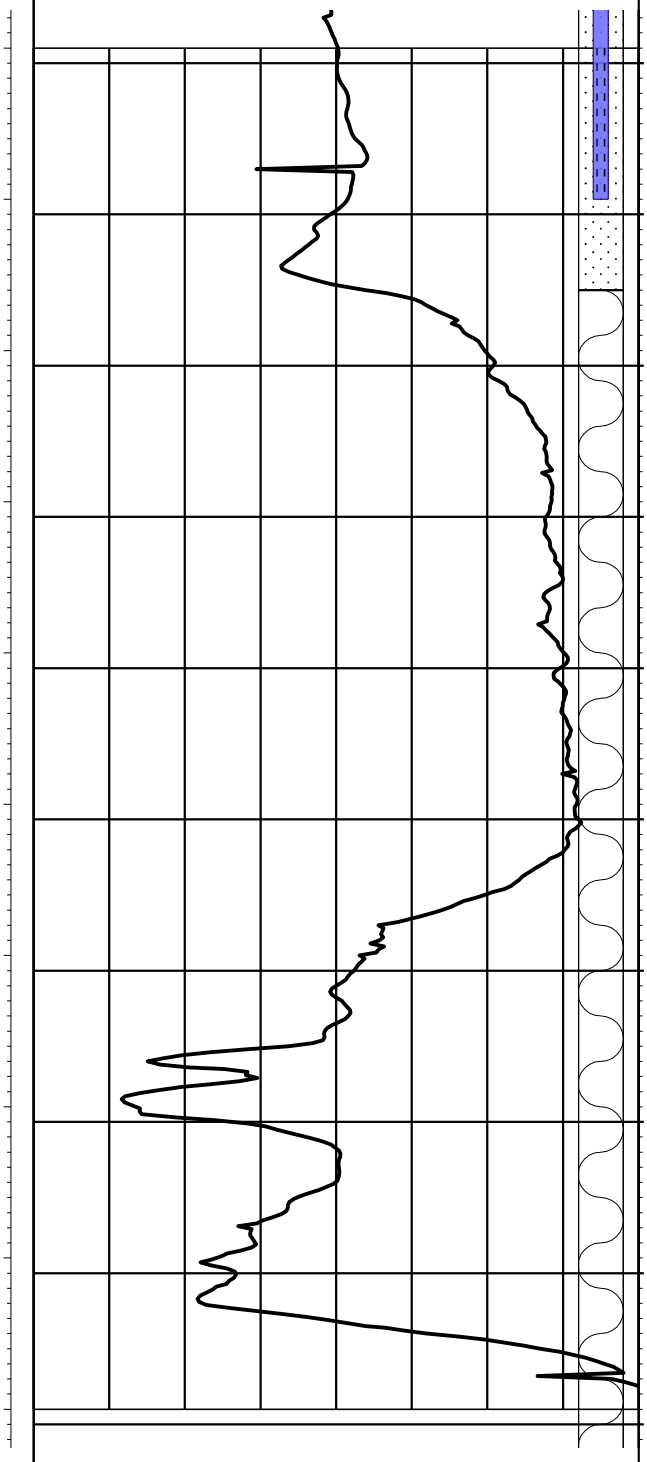
Profile



Continued

No.	Geological Description	Env.	Age
19	SAND - -	Mw	Lg/ Gc
20	SAND - -	Mw	Lg/ Gc
21	SAND - -	Mw	Lg/ Gc
22	SAND - -	Mw	Lg/ Gc
P1			
	SAND, medium-coarse, uniform graded, noncalcareous, grey	Mw	Lg/ Gc
23	SAND, medium, uniform graded, noncalcareous, grey	Mw	Lg/ Gc
24	SAND - -	Mw	Lg/ Gc
25	SAND - -	Mw	Lg/ Gc
26	SAND - -	Mw	Lg/ Gc
27	SAND - -	Mw	Lg/ Gc
28	SAND - -	Mw	Lg/ Gc
29	SAND, medium - coarse, uniform graded, noncalcareous, grey	Mw	Lg/ Gc
30	SAND, medium - coarse, uniform graded, gravelly, noncalcareous, grey	Mw	Lg/ Gc
31	SAND, medium - coarse, uniform graded, very gravelly, noncalcareous, grey	Mw	Lg/ Gc
32	SAND, medium, uniform graded, sl. silty, noncalcareous, grey	Mw	Lg/ Gc
33	SAND - -	Mw	Lg/ Gc
34	SAND, medium, poorly graded, silty, sl. calcareous, dark grey	Mw	Lg/ Gc
35	SAND, medium, uniform graded, noncalcareous, grey	Mw	Lg/ Gc
36	SAND - -	Mw	Lg/ Gc
37	SAND, medium, uniform graded, sl. silty, noncalcareous, grey	Mw	Lg/ Gc

Continues

□ 10 20 30	W (%)
→ 1 2 3	qc (MPa)
→ 10 20 30	qc (MPa)

Soil description acc. to dgf-Bulletin 1, Revision 2, December 2021

Coordinate system: UTM32E89
X : 482444 (m) Y : 6217876 (m)

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Drilled by: Geo PKN/JEP Date: 2023-11-10 Geology by: NIO Borehole: 1C.01

Method: Cased Shell & Auger 6'' DGU no: Encl. No.: 3.2.1 Rev.: 0 P. 2/3

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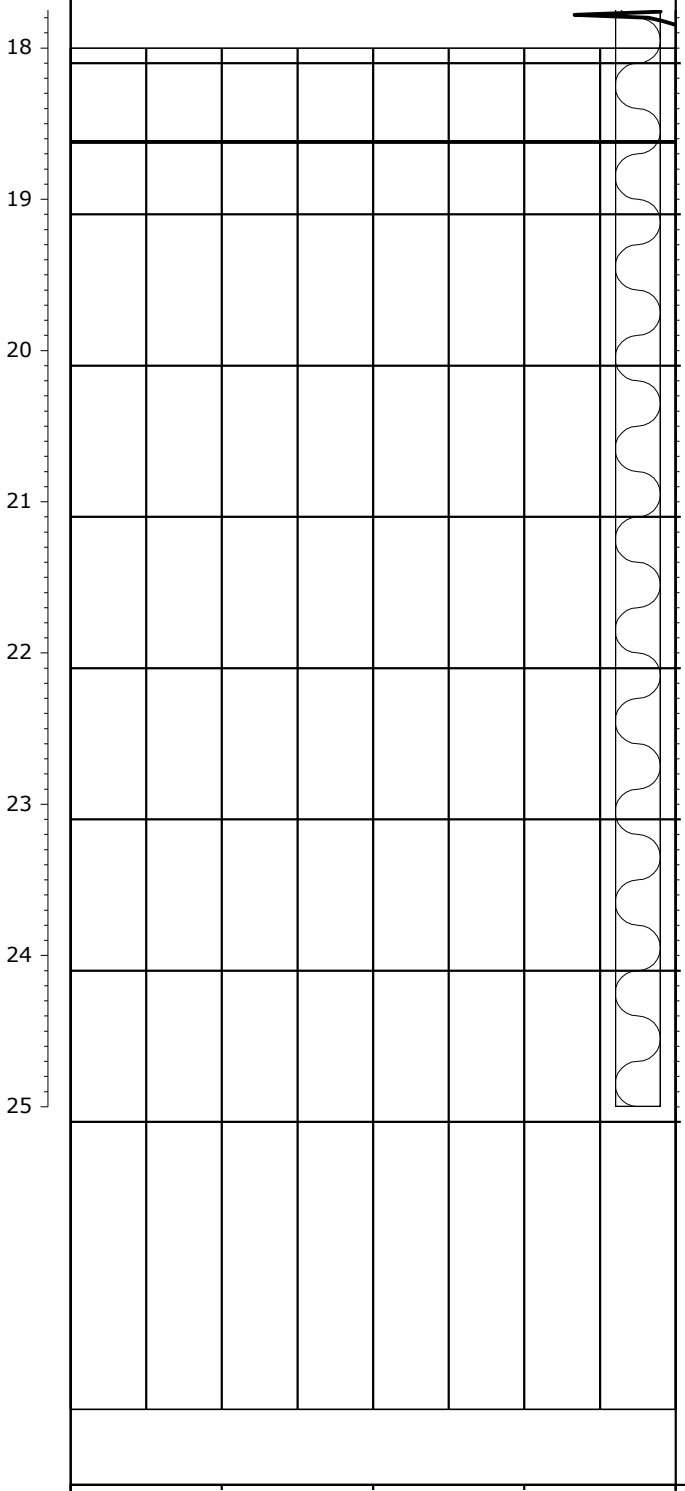
Profile



Continued

No.	Geological Description	Env.	Age
37	SAND, medium, uniform graded, sl. silty, noncalcareous, grey	Mw	Lg/ Gc
38	SAND, medium, uniform graded, noncalcareous, grey	Mw	Lg/ Gc
39	SAND - -	Mw	Lg/ Gc
40	SAND - -	Mw	Lg/ Gc
41	SAND - -	Mw	Lg/ Gc
42	SAND, medium - coarse, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Lg/ Gc
43	SAND - -	Mw	Lg/ Gc
44	SAND - -	Mw	Lg/ Gc
45	SAND, coarse, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Lg/ Gc
46	SAND - -	Mw	Lg/ Gc
47	SAND - -	Mw	Lg/ Gc
48	SAND, coarse, uniform graded, noncalcareous, grey	Mw	Lg/ Gc
49	SAND - -	Mw	Lg/ Gc
50	SAND - -	Mw	Lg/ Gc
51	SAND - -	Mw	Lg/ Gc

□	10	20	30 W (%)
→	1	2	3 qc (MPa)
→	10	20	30 qc (MPa)

Soil description acc. to dgf-Bulletin 1, Revision 2, December 2021

Coordinate system: UTM32E89
X : 482444 (m) Y : 6217876 (m)

Job: 207865 HESV-VID - Forundersøgelser for styrede underboringer (HDD)

Drilled by: Geo PKN/JEP Date: 2023-11-10 Geology by: NIO Borehole: 1C.01

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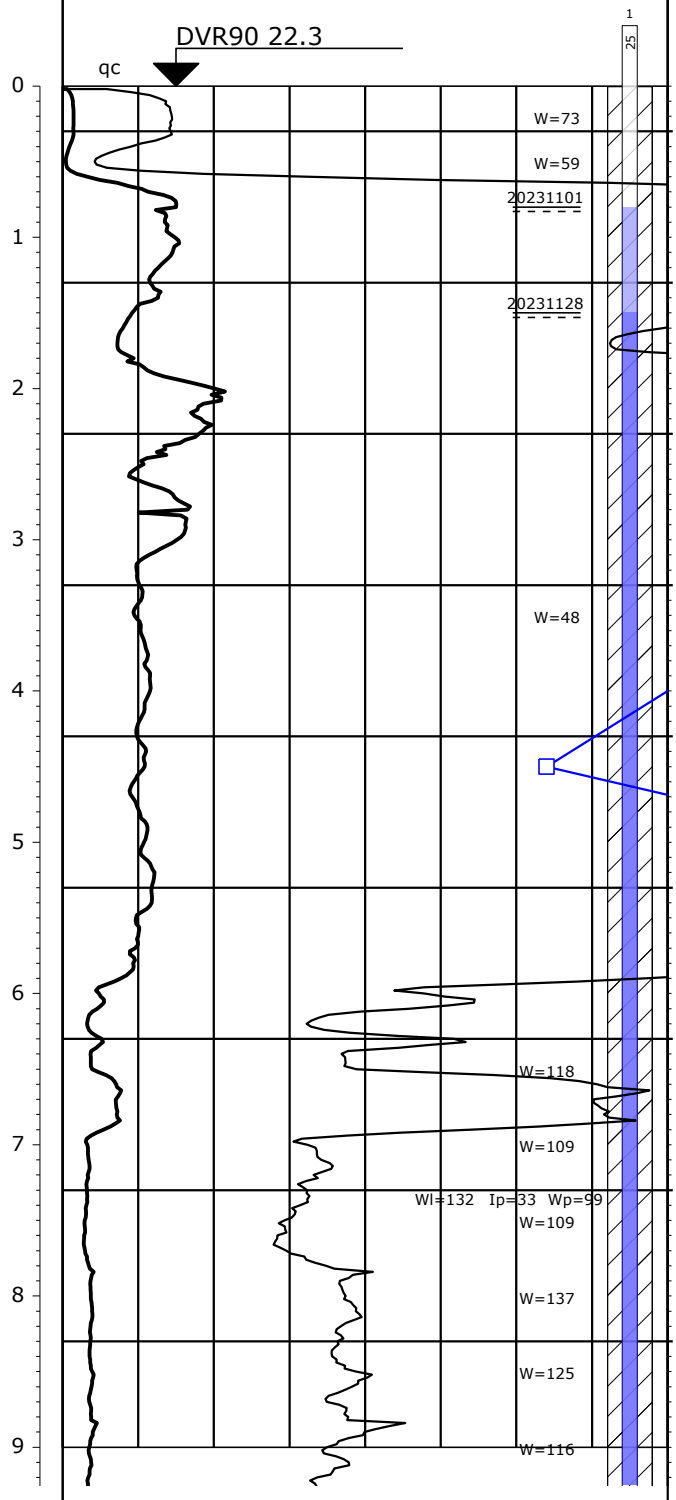

Depth (m)	Level (m)	Sample	No.	Geological Description	Env.	Age
			1	MULL: PEAT, noncalcareous, w. root fragments, dark brown	Ts	Re
			2	GYTTJA, very clayey, noncalcareous, dark reddish brown	Fw	Pg
			3	GRAVEL, very sandy, noncalcareous, yellowish brown	Mw	Pg/ Lg
			4	GRAVEL, very sandy, noncalcareous, yellowish grey	Mw	Pg/ Lg
			5	SAND, medium - coarse, uniform graded, sl. gravelly, noncalcareous, yellowish grey	Mw	Pg/ Lg
			6	GRAVEL, sandy, noncalcareous, grey	Mw	Pg/ Lg
			7	GRAVEL - -	Mw	Pg/ Lg
			8	SAND, medium, graded, very silty, noncalcareous, very organic, dark brownish grey	Fw	Pg/ Ig
			9	SAND, medium, uniform graded, sl. silty, noncalcareous, sl. organic, dark brownish grey	Fw	Pg/ Ig
			10	SAND, medium, uniform graded, noncalcareous, w. plant remains, grey	Fw	Pg/ Ig
			11	SAND, medium, uniform graded, noncalcareous, with hasselnut, w. many plant remains, grey	Fw	Pg/ Ig
			12	SAND, medium, uniform graded, sl. silty, noncalcareous, w. few gyttja parts, w. many plant remains, dark grey	Fw	Pg/ Ig
			13	SAND, medium - coarse, uniform graded, sl. silty, noncalcareous, w. plant remains, grey	Fw	Pg/ Ig
			14	PEAT MUD, noncalcareous, black	Fw	Ig
			15	PEAT MUD, noncalcareous, with vivianit, black	Fw	Ig
			16	DIATOMITE GYTTJA, high plasticity, noncalcareous, w. iron sulphide, brownish black	Fw	Ig
			17	DIATOMITE GYTTJA - -	Fw	Ig
			18	DIATOMITE GYTTJA - -	Fw	Ig
			19	DIATOMITE GYTTJA - -	Fw	Ig

Continues

10 20 30	W (%)
1 2 3	qc (MPa)
10 20 30	qc (MPa)

Soil description acc. to dgf-Bulletin 1, Revision 2, December 2021
Sample 3-7: The samples are probably Late Glacial meltwater deposits.
Sample 8-29: The samples are probably Interglacial deposits.

Coordinate system: UTM32E89
X : 482552 (m) Y : 6217921 (m)

Job: 207865 HESV-VID - Forundersøgelser for styrede underboringer (HDD)

Drilled by: Geo PKN/JEP Date: 2023-10-31 Geology by: NIO Borehole: 1C.02

Method: Cased Shell & Auger 6" DGU no: Encl. No.: 3.2.2 Rev.: 0 P. 1/4

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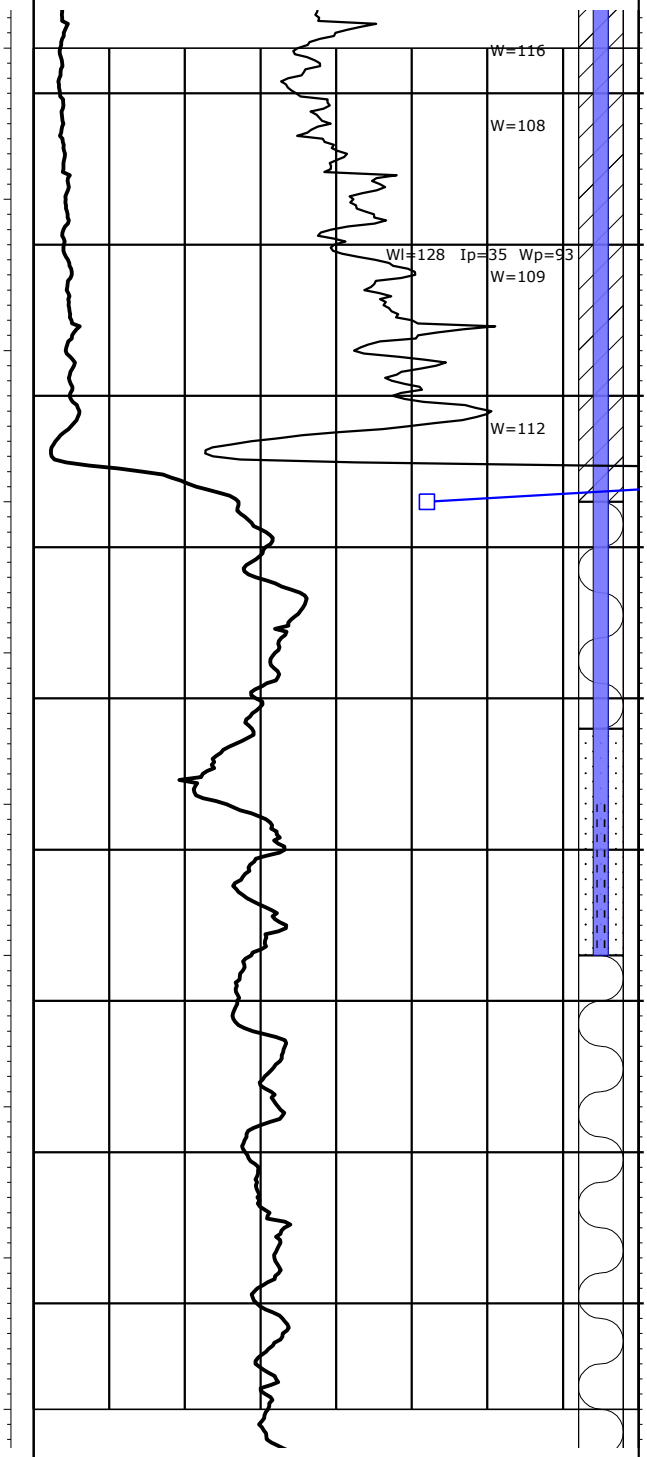
Profile



Depth (m) | Test results | Level (m) | Geology | Sample | No. | Geological Description | Env. | Age

Continued

No.	Geological Description	Env.	Age
19	DIATOMITE GYTTJA - -	Fw	Ig
20	DIATOMITE GYTTJA - -	Fw	Ig
21	DIATOMITE GYTTJA, high plasticity, noncalcareous, w. iron sulphide, black	Fw	Ig
22	DIATOMITE GYTTJA, high plasticity, clayey, noncalcareous, rich in iron sulphide, black	Fw	Ig
23	DIATOMITE GYTTJA - -	Fw	Ig
24	DIATOMITE GYTTJA - -	Fw	Ig
25	CLAY, medium plasticity, noncalcareous, sl. organic, w. few sand laminae, w. iron sulphide stains, dark grey	Fw	Ig
26	SAND, coarse, uniform graded, noncalcareous, w. iron sulphide, dark grey	Fw	Ig
27	SAND, coarse, uniform graded, sl. silty, noncalcareous, w. little iron sulphide, w. few clay specks, dark grey	Fw	Ig
28	SAND, medium - coarse, uniform graded, sl. gravelly, noncalcareous, w. little iron sulphide, dark grey	Fw	Ig
29	SAND, coarse, uniform graded, sl. gravelly, noncalcareous, w. little iron sulphide, grey	Fw	Ig
30	GRAVEL, sandy, noncalcareous, grey	Mw	Gc
31	SAND, coarse, uniform graded, gravelly, noncalcareous, grey	Mw	Gc
31A	SAND, coarse, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Gc
32	SAND, coarse, poorly graded, very gravelly, noncalcareous, grey	Mw	Gc
33	SAND, coarse, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Gc
34	SAND - -	Mw	Gc
35	SAND - -	Mw	Gc
36	SAND - -	Mw	Gc
37	SAND - -	Mw	Gc

Continues

10 20 30 W (%)
1 2 3 qc (MPa)
10 20 30 qc (MPa)

Soil description acc. to dgf-Bulletin 1, Revision 2, December 2021
Sample 3-7: The samples are probably Late Glacial meltwater deposits.
Sample 8-29: The samples are probably Interglacial deposits.

Coordinate system: UTM32E89
X : 482552 (m) Y : 6217921 (m)

Job: 207865 HESV-VID - Forundersøgelser for styrede underboringer (HDD)

Drilled by: Geo PKN/JEP Date: 2023-10-31 Geology by: NIO Borehole: 1C.02

Method: Cased Shell & Auger 6'' DGU no: Encl. No.: 3.2.2 Rev.: 0 P. 2/4

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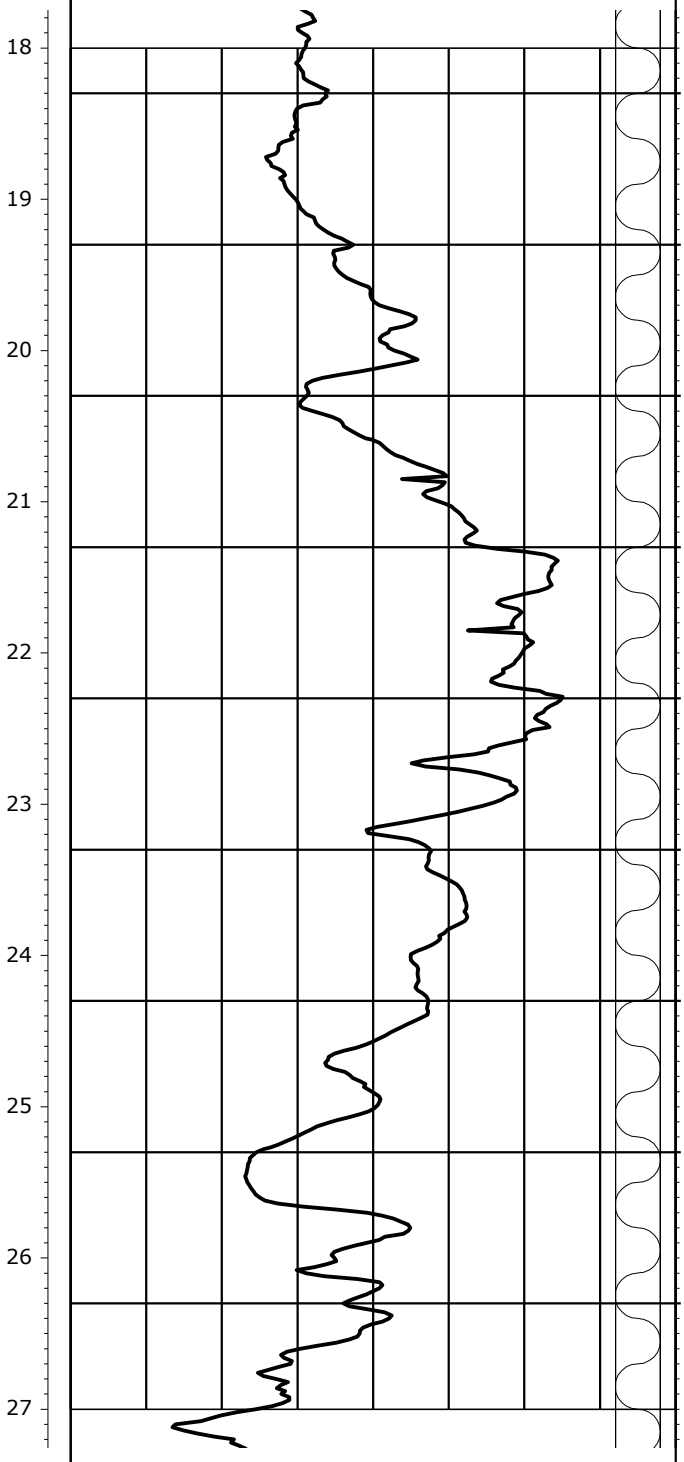
Profile



Test results

Level (m): +4, +3, +2, +1, 0, -1, -2, -3, -4

Geology

Sample

No.	Geological Description	Env.	Age
	Continued		
37	SAND - -	Mw	Gc
38	SAND, medium - coarse, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Gc
39	GRAVEL, sandy, noncalcareous, grey	Mw	Gc
40	SAND, coarse, poorly graded, gravelly, noncalcareous, grey	Mw	Gc
41	SAND - -	Mw	Gc
42	SAND, coarse, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Gc
43	SAND - -	Mw	Gc
44	SAND, medium - coarse, uniform graded, gravelly, noncalcareous, grey	Mw	Gc
45	SAND, medium - coarse, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Gc
46	GRAVEL, very sandy, noncalcareous, grey	Mw	Gc
47	SAND, medium - coarse, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Gc
48	SAND, medium, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Gc
49	SAND - -	Mw	Gc
50	SAND - -	Mw	Gc
51	SAND, coarse, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Gc
52	SAND, coarse, uniform graded, gravelly, noncalcareous, grey	Mw	Gc
53	SAND - -	Mw	Gc
54	SAND - -	Mw	Gc
55	SAND, medium, poorly graded, silty, sl. gravelly, noncalcareous, grey	Mw	Gc
	Continues		

□ 10 20 30 W (%)

→ 1 2 3 qc (MPa)

→ 10 20 30 qc (MPa)

Soil description acc. to dgf-Bulletin 1, Revision 2, December 2021
Sample 3-7: The samples are probably Late Glacial meltwater deposits.
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Job: 207865 HESV-VID - Forundersøgelser for styrede underboringer (HDD)

Drilled by: Geo PKN/JEP Date: 2023-10-31 Geology by: NIO Borehole: 1C.02

Method: Cased Shell & Auger 6'' DGU no: Encl. No.: 3.2.2 Rev.: 0 P. 3/4

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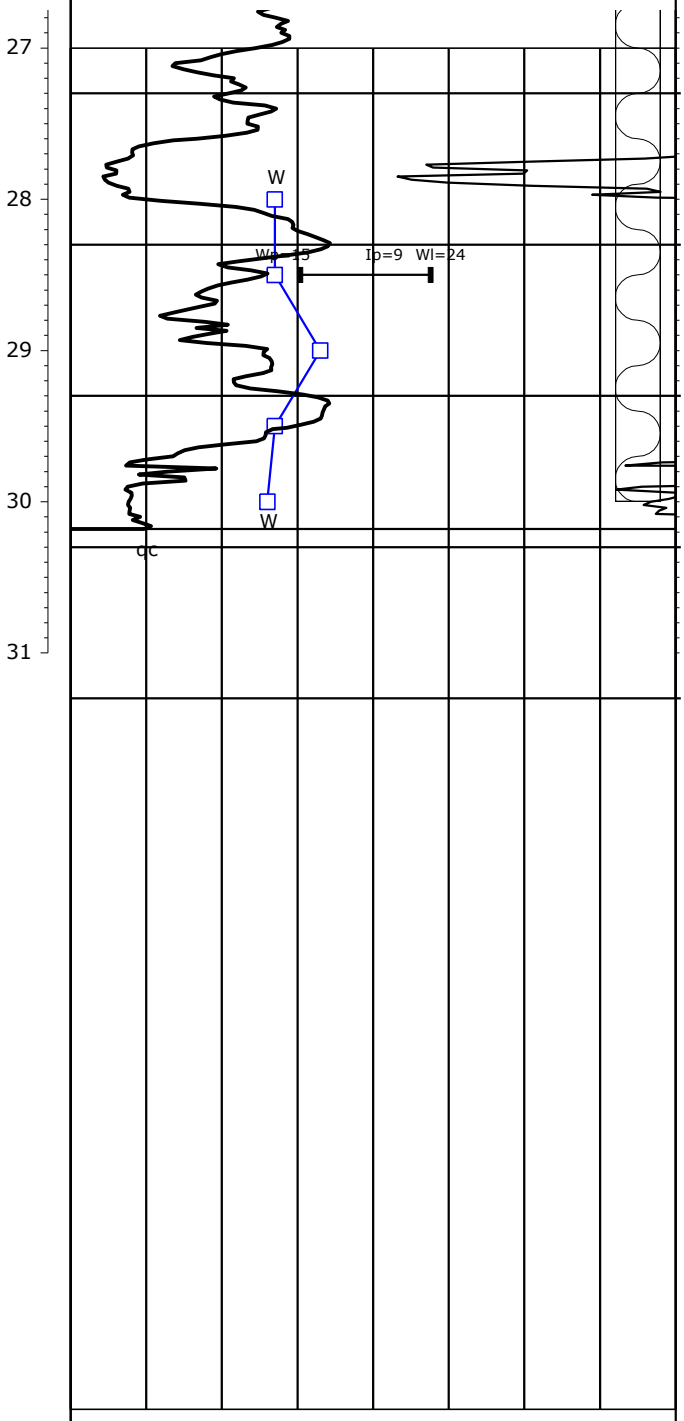
Profile



Level (m)	Geology	Sample	No.	Geological Description	Env.	Age
				Continued		
-5			55	SAND, medium, poorly graded, silty, sl. gravelly, noncalcareous, grey	Mw	Gc
			56	SAND, medium, graded, very silty, sl. gravelly, noncalcareous, grey	Mw	Gc
-6			57	CLAY TILL, low plasticity, sandy, sl. gravelly, noncalcareous, grey	Gl	Gc
			58	CLAY TILL, low plasticity, sandy, sl. gravelly, noncalcareous, w. few sand parts, grey	Gl	Gc
-7			59	CLAY TILL, very low plasticity, very sandy, sl. gravelly, noncalcareous, dark grey	Gl	Gc
			60	CLAY TILL, low plasticity, sandy, sl. gravelly, noncalcareous, dark grey	Gl	Gc
-8			61	CLAY TILL - -	Gl	Gc
-9						

□ 10 20 30	W (%)
→ 1 2 3	qc (MPa)
→ 10 20 30	qc (MPa)

Soil description acc. to dgf-Bulletin 1, Revision 2, December 2021
Sample 3-7: The samples are probably Late Glacial meltwater deposits.
Sample 8-29: The samples are probably Interglacial deposits.

Coordinate system: UTM32E89
X : 482552 (m) Y : 6217921 (m)

Job: 207865 HESV-VID - Forundersøgelser for styrede underboringer (HDD)

Drilled by: Geo PKN/JEP Date: 2023-10-31 Geology by: NIO Borehole: 1C.02

Method: Cased Shell & Auger 6'' DGU no: Encl. No.: 3.2.2 Rev.: 0 P. 4/4

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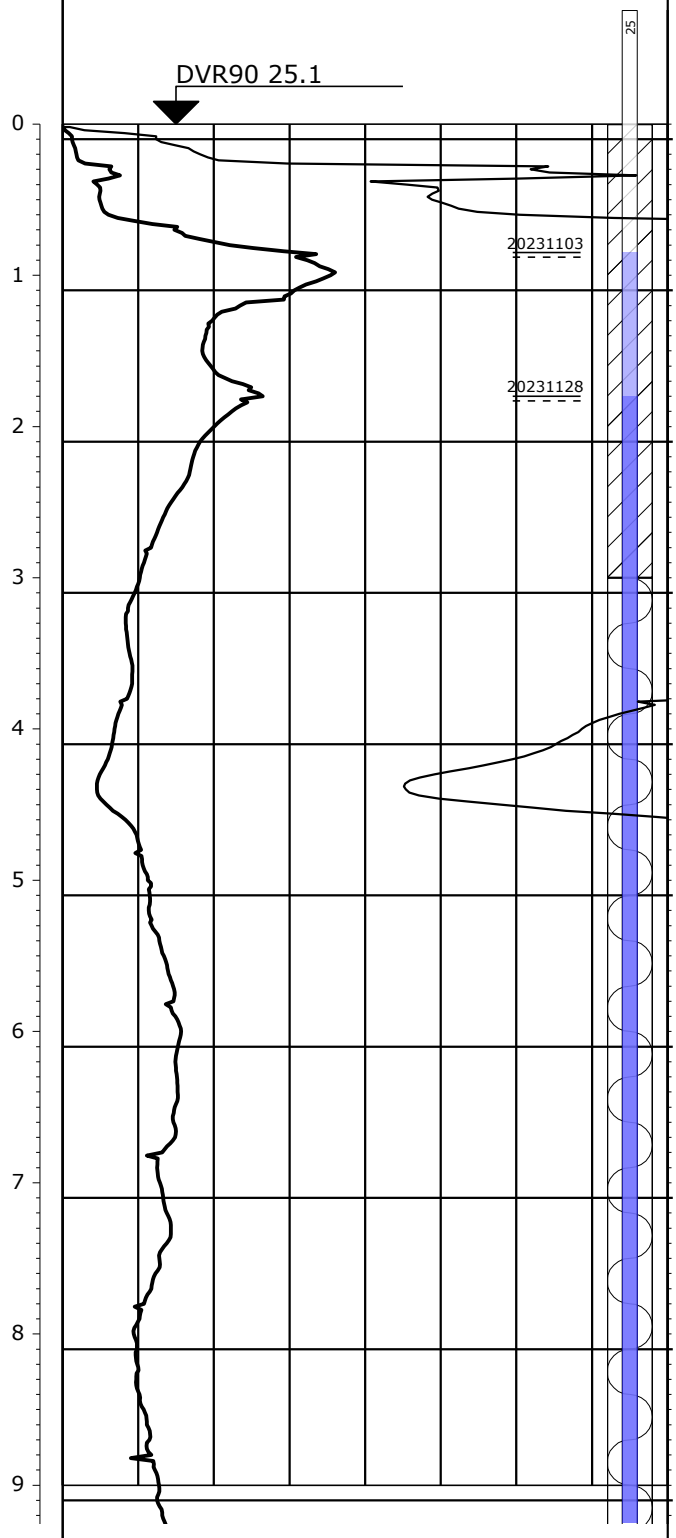

Depth (m)	No.	Geological Description	Env.	Age
	1	MULL: SAND, sl. clayey, noncalcareous, dark greyish brown	Ts	Re
	2	SAND, medium, poorly graded, silty, sl. gravelly, noncalcareous, humic, dark brown	Ts	Re
	3	SAND, poorly graded, silty, gravelly, noncalcareous, w. ochre, reddish brown	Mw	Lg
	4	SAND, medium, uniform graded, sl. gravelly, noncalcareous, yellowish brown	Mw	Lg
	5	SAND - -	Mw	Lg
	6	SAND, medium, uniform graded, noncalcareous, yellowish brown	Mw	Lg
	7	SAND, medium, uniform graded, noncalcareous, brownish grey	Mw	Lg
	8	SAND, medium, poorly graded, silty, sl. gravelly, noncalcareous, grey	Mw	Lg
	9	SAND, medium, uniform graded, sl. silty, noncalcareous, grey	Mw	Lg
	10	SAND - -	Mw	Lg
	11	SAND - -	Mw	Lg
	12	SAND, medium, uniform graded, sl. gravelly, noncalcareous, grey	Mw	Lg
	13	SAND - -	Mw	Lg
	14	SAND, medium, uniform graded, noncalcareous, grey	Mw	Lg
	15	SAND, medium, uniform graded, noncalcareous, w. few silt layers, w. a few mica, Mica Sand, grey	Ma	Mi
	16	SAND, medium, uniform graded, sl. silty, noncalcareous, w. a few mica, Mica Sand, grey	Ma	Mi
	17	SAND, medium, uniform graded, sl. silty, noncalcareous, with a few mica, Mica Sand, dark grey	Ma	Mi
	18	SAND, medium, uniform graded, sl. silty, noncalcareous, w. few mica clay specks, Mica Sand, grey	Ma	Mi
	19	SAND, fine, poorly graded, silty, noncalcareous, with mica, Mica Sand, dark grey	Ma	Mi

Continues

Test results

□ 10 20 30 W (%)

→ 1 2 3 qc (MPa)

→ 10 20 30 qc (MPa)

Soil description acc. to dgf-Bulletin 1, Revision 2, December 2021

Coordinate system: UTM32E89

X : 482648 (m) Y : 6217963 (m)

Job: 207865 HESV-VID - Forundersøgelser for styrede underboringer (HDD)

Drilled by: Geo PKN/JEP Date: 2023-11-02 Geology by: NIO Borehole: 1C.03

Method: Cased Shell & Auger 6'' DGU no: Encl. No.: 3.2.3 Rev.: 0 P. 1/3

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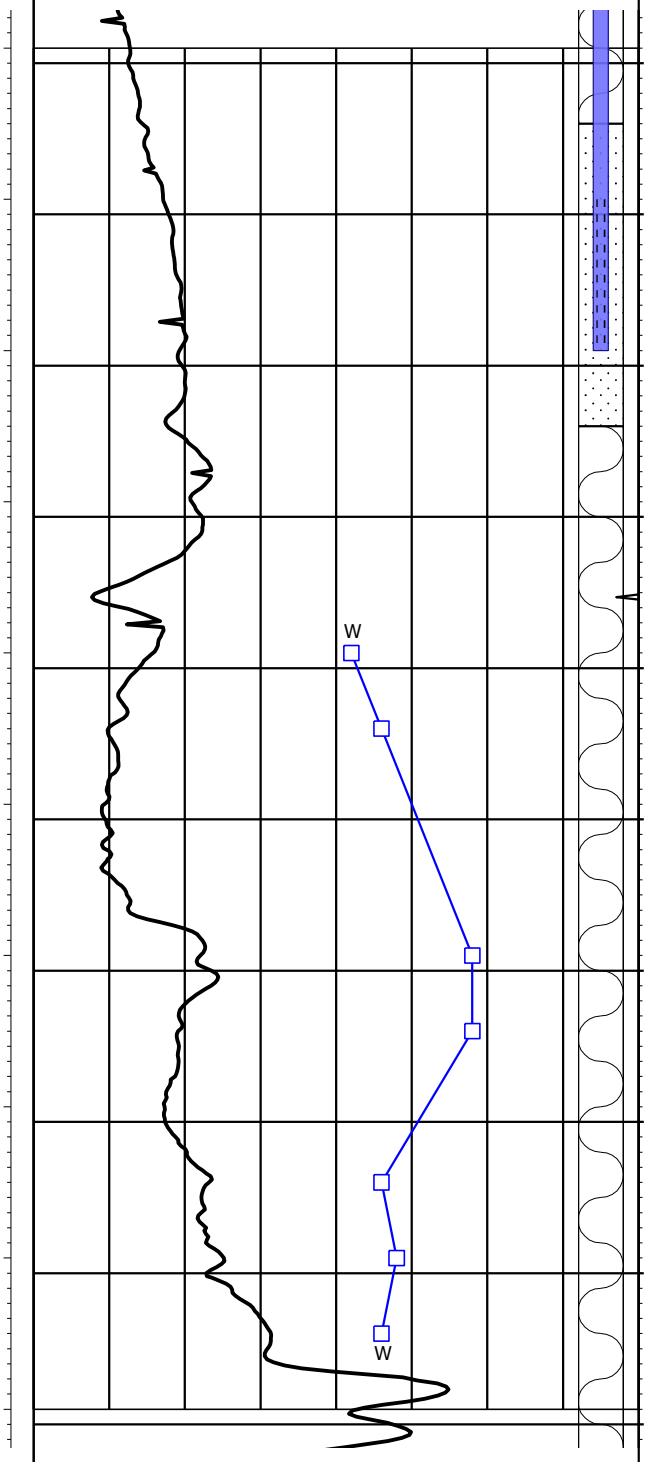

Continued

No.	Geological Description	Env.	Age
19	SAND, fine, poorly graded, silty, noncalcareous, with mica, Mica Sand, dark grey	Ma	Mi
20	SAND, fine, uniform graded, sl. silty, noncalcareous, with mica, Mica Sand, grey	Ma	Mi
21	SAND, fine - medium, uniform graded, sl. silty, noncalcareous, with mica, Mica Sand, grey	Ma	Mi
21A	SAND, fine - medium, uniform graded, sl. silty, noncalcareous, w. mica, Mica Sand, grey	Ma	Mi
22	SAND, medium, uniform graded, sl. silty, noncalcareous, with a few mica, Mica Sand, grey	Ma	Mi
23	SAND, medium, uniform graded, sl. silty, noncalcareous, with mica, Mica Sand, grey	Ma	Mi
24	SAND, medium, poorly graded, silty, noncalcareous, with mica, Mica Sand, dark grey	Ma	Mi
25	SAND, medium, uniform graded, sl. silty, noncalcareous, with mica, Mica Sand, dark grey	Ma	Mi
26	SAND, medium, uniform graded, sl. silty, noncalcareous, with a few mica, Mica Sand, dark grey	Ma	Mi
F	Shelby tube empty		
27	SAND, medium, poorly graded, sl. silty, noncalcareous, w. mica clay layers, with mica, Mica Sand, dark grey	Ma	Mi
28	SAND, fine, graded, very silty, noncalcareous, w. mica, with a layer of mica clay, Mica Sand, dark grey	Ma	Mi
30	SAND, fine, graded, very silty, noncalcareous, w. mica, Mica Sand (top tube: SAND, medium, poorly graded, silty, nonclacareous, w. mica, Mica Sand, dark brownish grey), dark brownish grey	Ma	Mi
29	SAND, fine, poorly graded, silty, noncalcareous, w. mica, small pieces of brown coal and a single mica clay part, Mica Sand, dark grey	Ma	Mi
31	SAND, fine, uniform graded, very silty, noncalcareous, w. mica, Mica Sand, dark grey	Ma	Mi
32	SAND, medium, poorly graded, silty, noncalcareous, w. few mica, with small mica clay parts, Mica Sand, dark grey	Ma	Mi
33	SAND, medium, poorly graded, silty, noncalcareous, w. few mica, with a few small mica clay parts, Mica Sand, dark grey	Ma	Mi
34	SAND, fine, poorly graded, silty, noncalcareous, w. mica, with small brown coal parts, Mica Sand, dark grey	Ma	Mi
35	SAND, fine, poorly graded, silty, noncalcareous, w. mica, with large brown coal pieces, Mica Sand, dark grey	Ma	Mi
36	SAND, fine - medium, poorly graded, silty, noncalcareous, w. mica, with a few small brown coal pieces, Mica Sand, dark grey	Ma	Mi
37	SAND, medium, poorly graded, silty, noncalcareous, w. mica, with a few brown coal	Ma	Mi

Continues

10 20 30 W (%)
1 2 3 qc (MPa)
10 20 30 qc (MPa)

Soil description acc. to dgf-Bulletin 1, Revision 2, December 2021

Coordinate system: UTM32E89
X : 482648 (m) Y : 6217963 (m)

Job: 207865 HESV-VID - Forundersøgelser for styrede underboringer (HDD)

Drilled by: Geo PKN/JEP Date: 2023-11-02 Geology by: NIO Borehole: 1C.03

Method: Cased Shell & Auger 6'' DGU no: Encl. No.: 3.2.3 Rev.: 0 P. 2/3

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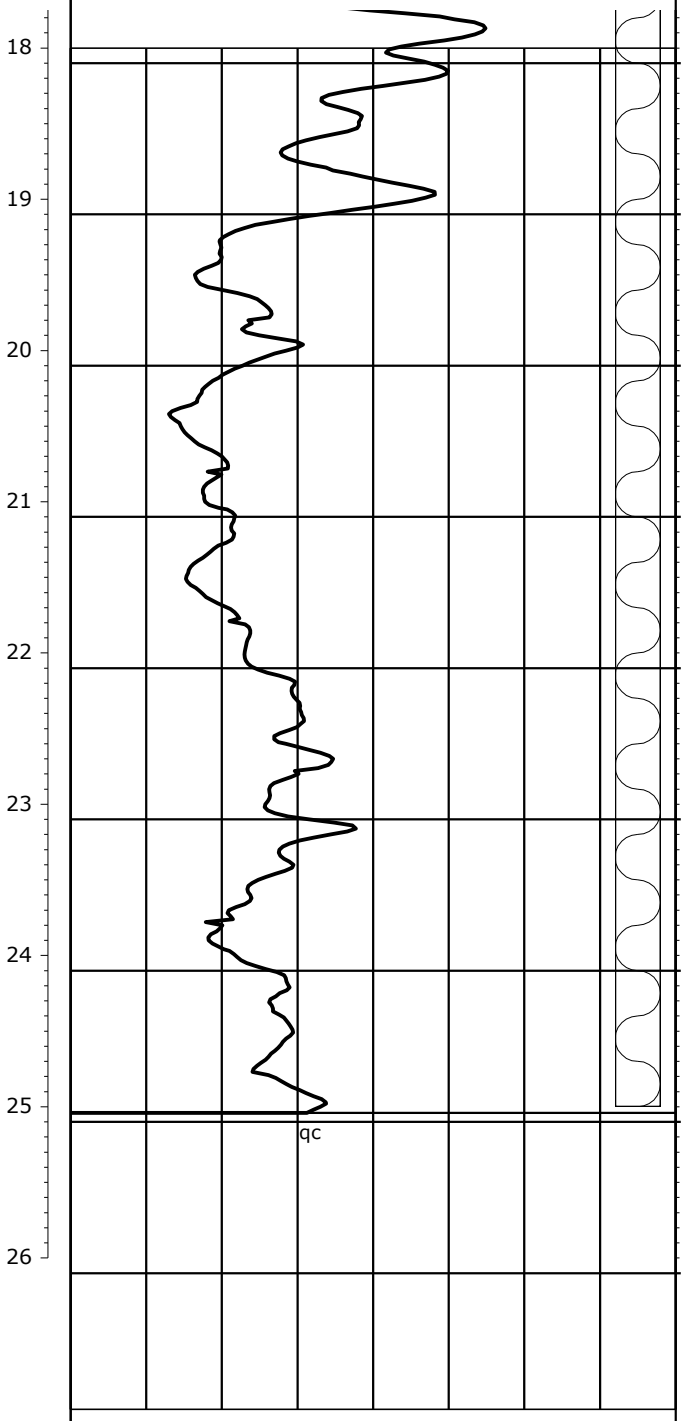

Depth (m)	No.	Geological Description	Env.	Age
		Continued		
	37	SAND, medium, poorly graded, silty, noncalcareous, w. mica, with a few brown coal pieces, mica sand, dark grey	Ma	Mi
	38	SAND, medium, uniform graded, sl. silty, noncalcareous, w. mica, with a few brown coal pieces, Mica Sand, dark grey	Ma	Mi
	39	SAND, medium, uniform graded, sl. silty, w. mica, with a few brown coal pieces, Mica Sand, dark grey	Ma	Mi
	40	SAND, medium, uniform graded, noncalcareous, with a few mica, mica sand, dark grey	Ma	Mi
	41	SAND, medium, uniform graded, sl. silty, noncalcareous, with a few mica, Mica Sand, dark grey	Ma	Mi
	42	SAND, medium, uniform graded, noncalcareous, with a few small brown coal pieces, Mica Sand, dark grey	Ma	Mi
	43	SAND, medium, uniform graded, noncalcareous, with a few mica, Mica Sand, dark grey	Ma	Mi
	44	SAND - -	Ma	Mi
	45	SAND, medium, uniform graded, sl. silty, noncalcareous, with a few mica, Mica Sand, dark grey	Ma	Mi
	46	SAND, medium, uniform graded, noncalcareous, with mica, with a few small brown coal pieces, Mica Sand, dark grey	Ma	Mi
	47	SAND, medium, uniform graded, sl. silty, noncalcareous, with mica, with a few small brown coal pieces, Mica Sand, dark grey	Ma	Mi
	48	SAND, medium, uniform graded, noncalcareous, with mica, Mica Sand, dark grey	Ma	Mi
	49	SAND, medium, uniform graded, sl. silty, noncalcareous, with mica, with a few small brown coal pieces, Mica Sand, dark grey	Ma	Mi
	50	SAND - -	Ma	Mi
	51	SAND - -	Ma	Mi

Test results

□	10	20	30
→	1	2	3
→	10	20	30

W (%)
qc (MPa)
qc (MPa)

Soil description acc. to dgf-Bulletin 1, Revision 2, December 2021

Coordinate system: UTM32E89
X : 482648 (m) Y : 6217963 (m)

Job: 207865 HESV-VID - Forundersøgelser for styrede underboringer (HDD)

Drilled by: Geo PKN/JEP Date: 2023-11-02 Geology by: NIO Borehole: 1C.03

Method: Cased Shell & Auger 6'' DGU no: Encl. No.: 3.2.3 Rev.: 0 P. 3/3

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