



## An assessment of timber and damp at

NEW MILLS, MARSDEN HD7 6AZ

- WEST MILL

### INTRODUCTION

Following instructions from Philip Wilkinson of RPP, we visited the site on two trips from 17<sup>th</sup> – 20<sup>th</sup> March and 1<sup>st</sup> -3<sup>rd</sup> April 2025.

The objective of the survey was to complete an assessment of timber and damp at the New Mills complex with a focus on the Brougham Road Building, East Mill and West Mill. The results of the survey will support the planning application and costing of works. Recommendations have

been provided on which principal timbers can be retained, repaired or replaced.

This report focuses on the West Mill, with separate reports produced for the East Mill and Brougham Road building.

West Mill has five floors and a basement. The roof principal structure is made from timber, and the principal floor structure is in steels. The first section of the report focuses on the roof structure (Page 3) and the second focuses on the floor structures and side building (lower ground floor) (Page 19). The observations and microdrill interpretations for each floor and roof are considered collectively in the Discussion & Recommendation section (page 25).



The first section includes:

- Introduction to the principal structure, type of connections and coding system used in the assessment.
- Marked up plans for the roof
- Summary of key findings.
- Series of photo observations which are referenced against the plans.
- Detailed list of microdrill interpretations which reference the drill number and ID.

The second section includes:

- Marked up plans for each floor
- Series of photo observations which are referenced against the plans.

The Microdrill drills a 2mm spade bit into the timber at a constant pressure, measuring the resistance encountered and presenting it as a graph. The graph profile correlates with density of the timber, where low density and an irregular graph profile is a good indicator of concealed decay.

The microdrill charts have been appended to the end of the report in addition to some detailed guidance on how to interpret the microdrill graphs (Page 26).

## ROOF INTRODUCTION – WEST MILL

The building has a M-shaped roof with a central valley and two ridges. There is a total of 27 bays, although the survey focused on the 18 bays which are planned to be retained and looks at the 36 trusses linked to these bays. A valley beam runs between each truss and supports a metal box gutter.

The central valley column has a shoe for each truss bearing and the two valley beams. The shoe partially covers the tie beams and valley beams.

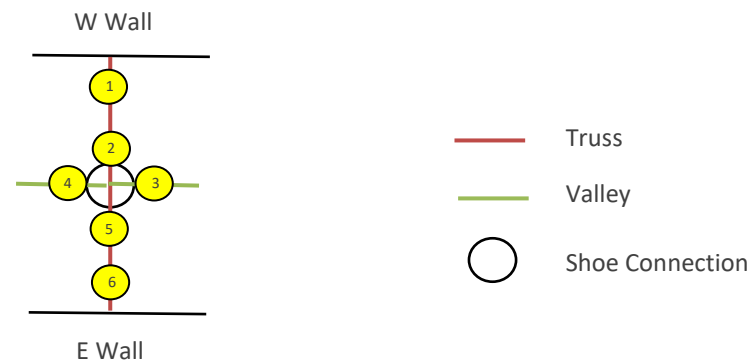
The trusses bear into the wall head at the W and E elevation of the building. Purlins have individual shoes for each connection. The purlins bear into the wall head at the N end of the building, and the S end was outside the survey scope.

Each connection of the principal roof structure was investigated with a microdrill where applicable and accessible. A coding system was utilised to provide an ID for each microdrill trace.

The roof structure was divided into 18 grids (as number on the plans) running from N to S. The purlins were lettered from A-H (as shown on the plans) running from W to E. For each grid there was 6 locations which refer to key connections.



- 1 – Truss bearing into W wall
- 2 – Shoe and W truss bearing
- 3 – Shoe and N valley beam bearing
- 4 – Shoe and S valley beam bearing
- 5 – Shoe and E truss bearing
- 6 – Truss bearing into Wall



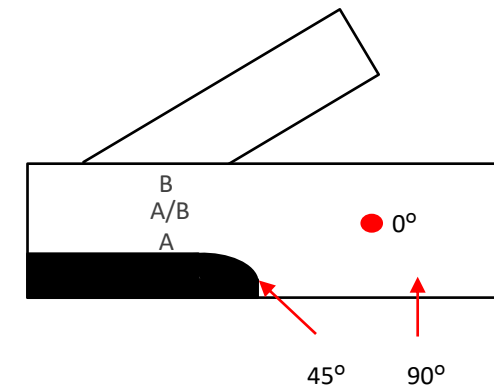
For each location different positions of the connection were microdrilled, which were provided

with a letter.

A – Bearing

A/B – Midpoint between the bearing and principal rafter connection

B – Principal rafter connection to tie beam



If a number was included after the letter this relates to the drill position from the shoe.

For example, A1 indicates the trace was taken from the shoe+100mm. Each increase in

number relates to an additional 100mm distance from the shoe. If the letter O follows the letter, this relates only to the graph immediately before and indicates that the trace was taken from the opposite side of the timber to the preceding sample position. The 'O' sampling was used when the first graph wasn't conclusive, so the sampling was repeated – but from the other side of the timber.

Three drilling angles were used either 45°, 90° or 0°. For drilling a truss where it bears into a wall or the valley beam bearing into the shoe connection a 45° angle was used. For drilling a tie beam on a shoe connection, a 0° angle was used, unless the sides of the tie beam were obscured. For any drilling that included a number after the letter a 90° angle was used. Each microdrill chart includes the angle that the trace was taken, and it is referred to as the tilt.

The coding used was: **Building . Structure . Grid . Connection Position** with the following options used:

**Building:** WM – West Mill, EM – East Mill or BR – Brougham Road building

**Structure:** R – Roof

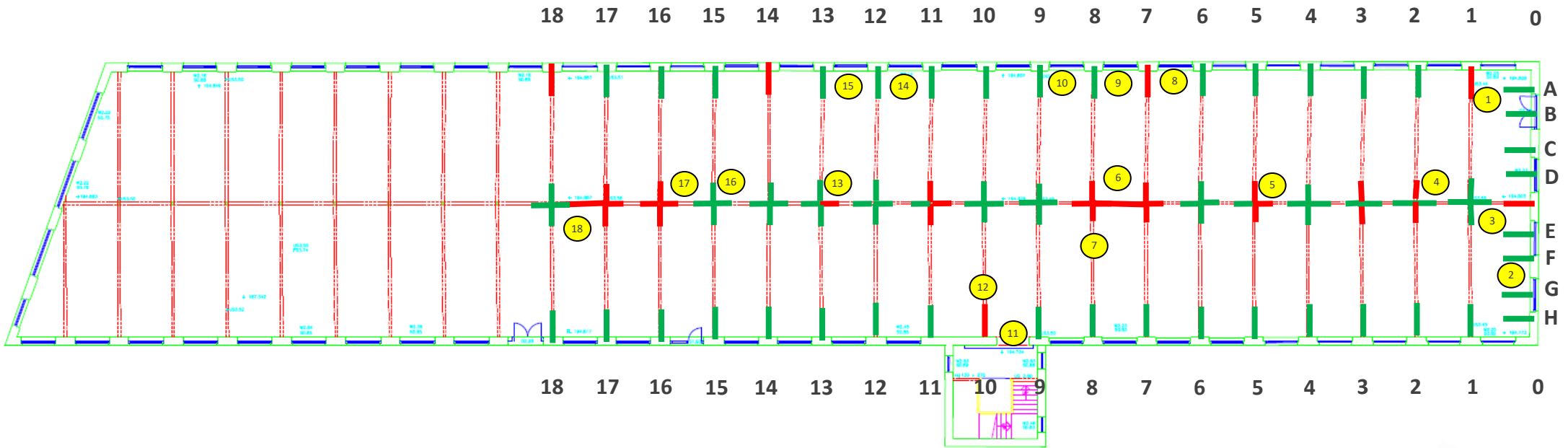
**Grid:** 0-18

**Connection:** 1-6

**Position:** A, A/B, B + O or number

Some areas within the building were not accessible due to machinery or leftover materials blocking access, or the floor being unsafe due to decay. Key connections which were not accessible have been provided with a photo observation and are not marked up on the plans.

# ROOF PLANS – WEST MILL



- Key**
- Connection bearing is sound
  - Connection bearing is decayed
  - ⊗ Position reference for photo observation
  - 1 Grid numbers
  - A Purlin reference letters



## SUMMARY – WEST MILL ROOF







Connection	Comment
<b>GRID 0</b>	
Purlin N Bearing	Purlin A and B did not bear into the wall but were attached by screws (Ob. 1). The remaining purlins were sound in their bearing.
Valley Beam N Bearing	Valley beam N bearing was decayed and regained full section at wall+500mm.
<b>GRID 1</b>	
Truss W Bearing	Bearing decayed and regains full section at wall+400mm.
Shoe Connection	All connection bearings are sound.
Truss E Bearing	Sound.
<b>GRID 2</b>	
Truss W Bearing	Sound
Shoe Connection	The N and S valley beam bearing was sound. The E & W truss was sound in its bearing (drilled above the shoe), although the bottom 20mm of the tie beams were wet and decayed, which could probably travel into the shoe (Ob. 4).
Truss E Bearing	Sound
<b>GRID 3</b>	
Truss W Bearing	Sound.
Shoe Connection	All connection bearings are sound. Shoe – W truss connections is wet and soft on the tie beam bottom and has slightly dropped within the pocket – so consider the bearing decayed
Truss E Bearing	Sound
<b>GRID 4</b>	
Truss W Bearing	Sound.
Shoe Connection	All connection bearings are sound.
Truss E Bearing	Sound
<b>GRID 5</b>	







Truss W Bearing	Sound.
Shoe Connection	E and W shoe truss connection is sound. Shoe S valley beam connection is sound, but the N valley is decayed, as is the packer (Ob. 6).
Truss E Bearing	Sound.
<b>GRID 6</b>	
Truss W Bearing	Sound.
Shoe Connection	All connection bearings are sound.
Truss E Bearing	Sound
<b>GRID 7</b>	
Truss W Bearing	Decayed and regains full section at wall+400mm, large hole in roof above connection (Ob. 9).
Shoe Connection	All connection bearings are decayed. W truss is decayed at both bearings, the E truss regains full section at shoe+500mm. N valley beam regains full section at shoe+500mm, the E valley beam is decayed at both bearings.
Truss E Bearing	Sound.
<b>GRID 8</b>	
Truss W Bearing	Sound
Shoe Connection	All connection bearings have decayed. Props have been fitted to support trusses and valleys (Ob. 7). The tie beams have full section where they bear upon the prop.
Truss E Bearing	Sound
<b>GRID 9</b>	
Truss W Bearing	Sound.
Shoe Connection	All connection bearings are sound.
Truss E Bearing	Sound
<b>GRID 10</b>	
Truss W Bearing	Sound.
Shoe Connection	All connection bearings are sound.
Truss E Bearing	Decayed and regains full section at wall+400mm.
<b>GRID 11</b>	

Truss W Bearing	Sound.
Shoe Connection	The W truss connection is sound above the shoe, although the bottom of the tie beam is wet and soft and has dropped 10mm in the shoe. The E truss connection is sound, although wet and soft at bottom of tie beam, so consider both decayed. The S valley beam connection is sound and N valley connection is decayed regaining full section at shoe+400mm.
Truss E Bearing	Sound.
<b>GRID 12</b>	
Truss W Bearing	Sound.
Shoe Connection	All connection bearings are sound.
Truss E Bearing	Sound
<b>GRID 13</b>	
Truss W Bearing	Sound.
Shoe Connection	Internal downpipe present at shoe connection. The N Valley beam has been notched to allow access for downpipe, and has also decayed in its bearing (Ob. 13), regaining full section at shoe+300mm. All other connections are sound.
Truss E Bearing	Sound.
<b>GRID 14</b>	
Truss W Bearing	Decayed and regains full section at wall+400mm.
Shoe Connection	All connection bearings are sound.
Truss E Bearing	Sound
<b>GRID 15</b>	
Truss W Bearing	Sound.
Shoe Connection	Internal downpipe present at shoe connection. The N Valley beam has been notched to allow access for downpipe (Ob. 16). All shoe connection bearings are sound.
Truss E Bearing	Sound.
<b>GRID 16</b>	
Truss W Bearing	Sound.

Shoe Connection	All shoe connection bearings are decayed. W truss regains full section at shoe+1M and E truss regains full section at shoe+400mm. N Valley beam regains full section at shoe+2M and the S valley beam is decayed at both bearings.
Truss E Bearing	Sound.
<b>GRID 17</b>	
Truss W Bearing	Sound.
Shoe Connection	All shoe connection bearings are decayed. The W Truss regains full section at shoe+1M and E truss regains full section at shoe+400mm. The S valley beam has water staining and fungal growth across its full length (Ob. 18) and N Valley is decayed at both bearings, both valley beams require full replacement.
Truss E Bearing	Sound.
<b>GRID 18</b>	
Truss W Bearing	Decayed and regains full section at wall+400mm.
Shoe Connection	All connection bearings are sound.
Truss E Bearing	Sound

## PHOTO OBSERVATIONS – WEST MILL ROOF

<p>1 Purlin A and E, do not bear into the wall, but have been attached via screws.</p>		<p>2 There is a hole in the roof above the ridge.</p>	
<p>3 Valley beam is decayed as it bears into the N wall. Purlin C has localised surface decay 1m from the wall, due to broken roof light.</p>		<p>4 Both tie beams showed sound timber in the bearing above the shoe. Although the bottom 20mm was wet and decayed, which could possibly travel into the shoe.</p>	
<p>5 N valley beam and packer is decayed in its shoe bearing. W and E truss connections are sound above the shoe, but wet and soft on the bottom.</p>		<p>6 Valley beam between grid 7 and 8, is decayed at both bearings and has fungal growth present. Valley beam requires replacement.</p>	

<p>7 All connections on the shoe of grid 8 are decayed. Props have been fitted to support trusses and valleys. The tie beams have full section where they bear upon the prop.</p>		<p>8 Rafter plate is extinct, large hole in roof above.</p>	
<p>9 Rafter plate had decayed as marked. Hole in roof above grid 7 Truss W bearing, which is decayed.</p>		<p>10 Rafter plate has decayed as marked.</p>	
<p>11 The rafter plate is decayed at its back face as marked. The stone lintel above the door has cracked.</p>		<p>12 Purlins (H) have decayed in shoe connection.</p>	

13  
2/3<sup>rd</sup> of the N valley beam has been removed for internal downpipe access. The bearing is also decayed (note screwdriver).



14  
Rafter plate is wet but has not yet decayed.



15  
Rafter plate is decayed as marked.



16  
Valley beam has been notched approximately 50% for internal downpipe.



17  
Sarking board has dropped above the valley beam between grid 15 and 16.



18  
Valley beam has water staining and fungal growth across its full length (Ob. 18) between grid 17 and 18. Requires replacement.



## MICRODRILL INTERPRETATIONS – WEST MILL ROOF

Graph #	Graph ID	Grid	Connection	Position	Comments
1	WM.R.0.VB	0	Valley Beam Bearing	A - Bearing	Trace shows the bearing is decayed with 40mm of sound material
2	WM.R.0.VB5	0	Valley Beam Bearing	A5-wall+500mm	Trace shows sound timber but with low resistance.
3	WM.R.1.1A	1	Truss W Bearing	A - Bearing	Trace shows 60mm of decayed timber with the remaining section being sound. Tie beam has dropped 40mm in its bearing. Principal rafter foot is decayed. Hole in roof above connection.
4	WM.R.1.1A2	1	Truss W Bearing	A2-wall+200mm	Trace shows decay for first 40mm and a possible shrinkage fissure between 210-220mm drilling depth with the remaining section sound.
5	WM.R.1.1A4	1	Truss W Bearing	A4-wall+400mm	Trace shows sound timber.
6	WM.R.1.2A	1	Shoe W Truss	A - Bearing	Trace shows 130mm sound timber.
7	WM.R.1.3A	1	Shoe N Valley	A - Bearing	Trace shows 110mm sound timber.
8	WM.R.1.4A	1	Shoe S Bearing	A - Bearing	Trace shows 110mm sound timber.
9	WM.R.1.5A	1	Shoe E Truss	A - Bearing	Trace shows 135mm sound timber.
10	WM.R.1.6A	1	Truss E Bearing	A - Bearing	Trace shows sound timber.
11	WM.R.2.1A	2	Truss W Bearing	A - Bearing	Trace shows sound timber, with drill bit exiting the timber at 140mm.
12	WM.R.2.2A	2	Shoe W Truss	A - Bearing	Trace shows 110mm sound timber. The bottom of the tie beam is wet and decayed approximately 20mm, this decay could possibly travel into the shoe, although the drill above the shoe shows sound timber. The tie beam is either notched against the shoe or has slightly dropped (Ob. 4).
13	WM.R.2.3A	2	Shoe N Valley	A - Bearing	Trace shows 120mm sound timber with low resistance.
14	WM.R.2.4A	2	Shoe S Valley	A - Bearing	Trace shows 110mm sound timber.
15	WM.R.2.5A	2	Shoe E Truss	A – Bearing 0°	Trace shows 130mm sound timber. The bottom of the tie beam is wet and decayed approximately 20mm, this decay could possibly travel into the shoe, although the drill above the shoe shows sound timber (Ob. 4).

16	WM.R.2.5A0	2	Shoe E Truss	AO- Bearing 45°	Trace shows 30mm of no resistance followed by 30mm of high resistance with the remaining section being sound.
17	WM.R.2.6A	2	Truss E Bearing	A - Bearing	Trace shows sound timber. There is a large hole near the bolt, which could have been a mis drill for the bolt.
18	WM.R.3.1A	3	Truss W Bearing	A - Bearing	Trace shows sound timber. Slight water staining present.
19	WM.R.3.2A	3	Shoe W Truss	A - Bearing	Trace shows 140mm sound timber.
20	WM.R.3.5A	3	Shoe E Truss	A - Bearing	Trace shows 140mm sound timber. The tie beam was slightly damp on its bottom, and had dropped 10mm in the shoe, although sound timber was present above the shoe.
21	WM.R.3.6A	3	Truss E Bearing	A - Bearing	Trace shows sound timber.
22	WM.R.4.1A	4	Truss W Bearing	A - Bearing	Trace shows sound timber.
23	WM.R.4.2A	4	Shoe W Truss	A - Bearing	Trace shows 140mm sound timber.
24	WM.R.4.5A	4	Shoe E Truss	A - Bearing	Trace shows sound timber. The tie beam has water staining present.
25	WM.R.4.6A	4	Truss E Bearing	A - Bearing	Trace shows sound timber.
26	WM.R.5.1A	5	Truss W Bearing	A - Bearing	Trace shows 90mm sound timber and then the drill bit exits from the timber. The bearing is short in the wall.
27	WM.R.5.2A	5	Shoe W Truss	A - Bearing	Trace shows 140mm sound timber, with high resistance. The tie beam is wet and soft on the bottom, which could travel into the shoe.
28	WM.R.5.5A	5	Shoe E Truss	A - Bearing	Trace shows 130mm sound timber. The tie beam is wet and soft on the bottom, which could travel into the shoe
29	WM.R.5.6A	5	Truss E Bearing	A - Bearing	Trace shows sound timber.
30	WM.R.6.1A	6	Truss W Bearing	A - Bearing	Trace shows sound timber but with lower resistance. Water staining present with surface softness. Connection is near a hole in the roof.
31	WM.R.6.2A	6	Shoe W Truss	A - Bearing	Trace shows sound timber.
32	WM.R.6.5A	6	Shoe E Truss	A - Bearing	Trace shows sound timber with high resistance in the last third, could be the drill bit encountering a knot.
33	WM.R.6.6A	6	Truss E Bearing	A - Bearing	Trace shows sound timber.

34	WM.R.7.1A4	7	Truss W bearing	A4-wall+400mm	Trace shows sound timber. Clear growth rings can be observed on trace. Tie beam was decayed in its bearing, but principal rafter was sound. Hole in roof above connection.
35	WM.R.7.2A	7	Shoe W Truss	A - Bearing	Trace shows over 50% of section is decayed. Tie beam has dropped approximately 30mm.
36	WM.R.7.3A0	7	Shoe N Valley	AO – Bearing 45°	Trace shows 20mm of sound timber with the remaining section being decayed.
37	WM.R.7.3A5	7	Shoe N Valley	A5-Shoe+500mm	Trace shows sound timber but with low resistance in the centre.
38	WM.R.7.5A	7	Shoe E Truss	A - Bearing	Trace shows 80mm pocket of decay. There is an enlarged pocket for the principal rafter connection.
39	WM.R.7.5A3	7	Shoe E Truss	A3-Shoe+300mm	Trace shows two pockets of decay of 80mm and 40mm.
40	WM.R.7.5A5	7	Shoe E Truss	A5-Shoe+500mm	Trace shows sound timber.
41	WM.R.7.6A	7	Truss E Bearing	A - Bearing	Trace shows sound timber.
42	WM.R.8.1A	8	Truss W Bearing	A - Bearing	Trace shows sound timber, with a drop in resistance at 30mm drilling depth.
43	WM.R.8.1A2	8	Truss W Bearing	A2-Wall+200mm	Trace shows sound timber.
44	WM.R.8.2APROP	8	Shoe W Truss - Prop	A - Bearing	Trace shows sound timber.
45	WM.R.8.5APROP	8	Shoe E Truss - Prop	A - Bearing	Trace shows sound timber.
46	WM.R.8.6A	8	Truss E Bearing	A - Bearing	Trace shows sound timber, with a drop in resistance at 20mm drilling depth. The bolt is missing the nut.
47	WM.R.9.1A	9	Truss W Bearing	A - Bearing	Trace shows sound timber, with drill bit exiting at 210mm. Water staining present.
48	WM.R.9.2A	9	Shoe W Truss	A - Bearing	Trace shows 110mm sound timber. Extended nib used with first 40mm of trace representing travel through the nib. Surface decay on the bottom of the tie beam.
49	WM.R.9.5A	9	Shoe E Truss	A - Bearing	Trace shows 110mm sound timber. Extended nib used with first 40mm of trace representing travel through the nib.
50	WM.R.9.6A	9	Truss E Bearing	A - Bearing	Trace shows sound timber. There is water staining and loss of paint on the tie beam. Localised decay to tie beam at the bolt location, and to the foot of the principal rafter.
51	WM.R.10.1A	10	Truss W Bearing	A - Bearing	Trace shows 110mm of sound timber. Short bearing in wall.

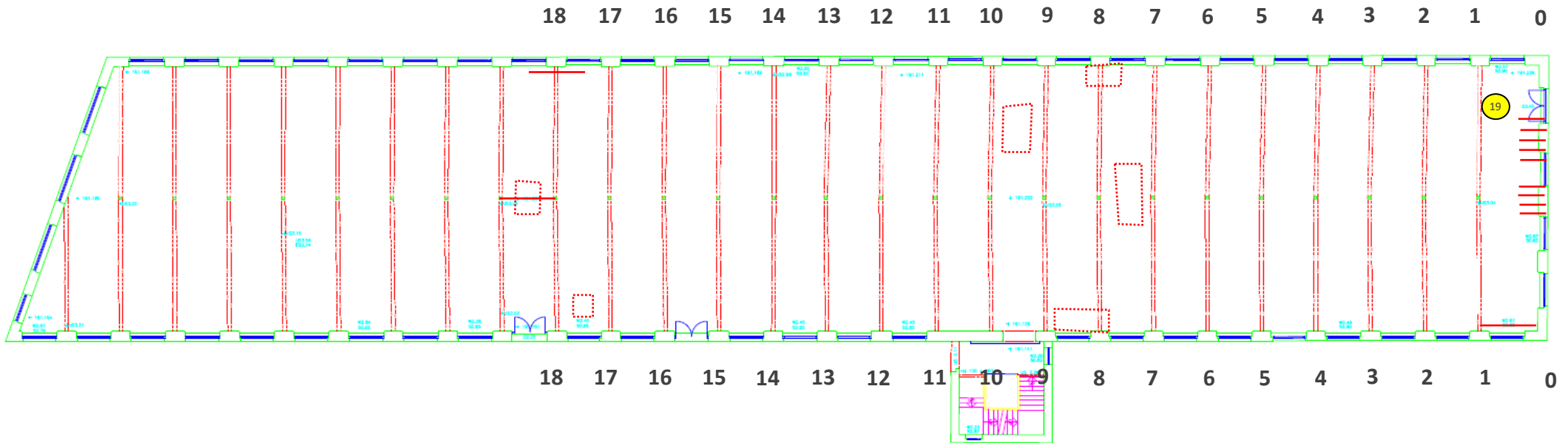
52	WM.R.10.2A	10	Shoe W Truss	A - Bearing	Trace shows 130mm of sound timber. Extended nib used with first 40mm of trace representing travel through the nib.
53	WM.R.10.5A	10	Shoe E Truss	A - Bearing	Trace shows 130mm of sound timber. Extended nib used with first 40mm of trace representing travel through the nib.
54	WM.R.10.6A2	10	Truss E Bearing	A2-Wall+200mm	Trace shows 200mm of sound timber with resistance then dropping out. There is water staining and loss of paint on the tie beam, which has a wet top with localised decay. Principal rafter connection is decayed.
55	WM.R.10.6A4	10	Truss E Bearing	A4-Wall+400mm	Trace shows 240mm sound timber, with low resistance from 20-50mm drilling depth.
56	WM.R.11.1A	11	Truss W Bearing	A - Bearing	Trace shows sound timber.
57	WM.R.11.2A	11	Shoe W Truss	A - Bearing	Trace shows 140mm sound timber. The bottom of the tie beam is wet and soft and has dropped 10mm in the shoe. It is likely the shoe has decayed but the timber above is sound.
58	WM.R.11.3A	11	Shoe N Valley	A - Bearing	Trace shows 2 pockets of decay of 30mm and 60mm, and no resistance for the first 20mm. The packet is decayed and the top 50mm of the valley beam is decayed for 1m from the shoe.
59	WM.R.11.3A4	11	Shoe N Valley	A4-Shoe+400mm	Trace shows sound timber with low resistance.
60	WM.R.11.5A	11	Shoe E Truss	A - Bearing	Trace shows 150mm sound timber. The bottom 20mm of the tie beam is wet and soft.
61	WM.R.11.6A	11	Truss E Bearing	A - Bearing	Trace shows sound timber, with possible shrinkage fissures at 160mm and 190mm drilling depth. The tie beam is wet and has surface decay.
62	WM.R.12.1A	12	Truss W Bearing	A - Bearing	Trace shows sound timber.
63	WM.R.12.2A	12	Shoe W Truss	A - Bearing	Trace shows 120mm sound timber.
64	WM.R.12.5A	12	Shoe E Truss	A - Bearing	Trace shows 130mm sound timber.
65	WM.R.12.6A	12	Truss E Bearing	A - Bearing	Trace shows sound timber.
66	WM.R.13.1A	13	Truss W Bearing	A - Bearing	Trace shows sound timber. Extended nib used with first 40mm of trace representing travel through the nib. Water staining present.
67	WM.R.13.2A	13	Shoe W Truss	A - Bearing	Trace shows 140mm sound timber.
68	WM.R.13.3A3	13	Shoe N Valley	A3-Shoe+300mm	Trace shows 160mm sound timber.
69	WM.R.13.4A0	13	Shoe S Valley	A0 – Bearing 45°	Trace shows 160mm sound timber. The packer has decayed.

70	WM.R.13.5A	13	Shoe E Truss	A - Bearing	Trace shows 90mm sound timber with high resistance.
71	WM.R.13.6A	13	Truss E Bearing	A - Bearing	Trace shows sound timber. There is water staining and slight surface decay, the bolt and nut is missing.
72	WM.R.14.1A4	14	Truss W Bearing	A4-Wall+400mm	Trace shows sound timber. Principal rafter and tie beam are decayed, due to hole in the roof above the connection.
73	WM.R.14.2A	14	Shoe W Truss	A - Bearing	Trace shows 130mm sound timber.
74	WM.R.14.5A	14	Shoe E Truss	A - Bearing	Trace shows 120mm sound timber, with high resistance.
75	WM.R.14.6A	14	Truss E Bearing	A - Bearing	Trace shows sound timber.
76	WM.R.15.1A	15	Truss W Bearing	A - Bearing	Trace shows sound timber. Cover plate has been added to the principal rafter foot and there is slight water staining.
77	WM.R.15.2A	15	Shoe W Truss	A - Bearing	Trace shows 120mm sound timber.
78	WM.R.15.3A	15	Shoe N Valley	A - Bearing	Trace shows 100mm of sound timber, with first 20mm showing low resistance and remaining 80mm showing high resistance. Valley beam has been notched (approx. 50% section) for internal downpipe (Ob. 16).
79	WM.R.15.4A	15	Shoe S Valley	A - Bearing 45°	Trace shows 160mm sound timber. The packer has decayed.
80	WM.R.15.5A	15	Shoe E Truss	A - Bearing	Trace shows 130mm sound timber. The tie beam has slight surface decay.
81	WM.R.15.6A	15	Truss E Bearing	A - Bearing	Trace shows sound timber with high resistance.
82	WM.R.16.1A	16	Truss W Bearing	A - Bearing	Trace shows sound timber. Slight water staining on top of tie beam.
83	WM.R.16.2A	16	Shoe W Truss	A - Bearing	Trace shows two thirds is decayed. Fungal growth present on principal rafter.
84	WM.R.16.2A10	16	Shoe W Truss	A10-Shoe+1M	Trace shows sound timber.
85	WM.R.16.3A	16	Shoe N Valley	A - Bearing	Trace shows over 50% decayed.
86	WM.R.16.3A4	16	Shoe N Valley	A4-Shoe+400mm	Trace shows 60mm pocket of decay.
87	WM.R.16.3A20	16	Shoe N Valley	A20-Shoe+2M	Trace shows sound timber.
88	WM.R.16.4A	16	Shoe S Valley	A - Bearing	Trace shows 40mm of sound timber with remaining section decayed.
89	WM.R.16.5A	16	Shoe E Truss	A - Bearing	Trace shows 70mm pocket of decay.

90	WM.R.16.5A4	16	Shoe E Truss	A4-Shoe+400mm	Trace shows sound timber.
91	WM.R.16.6A	16	Truss E Bearing	A - Bearing	Trace shows sound timber. There is slight surface decay to the tie beam and principal rafter.
92	WM.R.17.1A	17	Truss W Bearing	A - Bearing	Trace shows sound timber.
93	WM.R.17.2A	17	Shoe W Truss	A - Bearing	Trace shows large 100mm pocket of decay. The tie beam has dropped in the shoe by 30mm.
94	WM.R.17.2A4	17	Shoe W Truss	A4-Shoe+400mm	Trace shows a 40mm pocket of decay.
95	WM.R.17.2A10	17	Shoe W Truss	A10-Shoe+1M	Trace shows sound timber.
96	WM.R.17.5A	17	Shoe E Truss	A - Bearing	Trace shows large 100mm pocket of decay. The tie beam has surface decay.
97	WM.R.17.5A4	17	Shoe E Truss	A4-Shoe+400mm	Trace shows sound timber.
98	WM.R.17.6A	17	Truss E Bearing	A - Bearing	Trace shows sound timber.
99	WM.R.18.1A	18	Truss W Bearing	A - Bearing	Trace shows over 50% decayed.
100	WM.R.18.1A2	18	Truss W Bearing	A2-Shoe+200mm	Trace shows decay from 140mm drilling depth onwards.
101	WM.R.18.1A4	18	Truss W Bearing	A4-Shoe+400mm	Trace shows sound timber.
102	WM.R.18.2A	18	Shoe W Truss	A - Bearing	Trace shows 130mm sound timber.
103	WM.R.18.5A	18	Shoe E Truss	A - Bearing	Trace shows 130mm sound timber.
104	WM.R.18.6A	18	Truss E Bearing	A - Bearing	Trace shows sound timber.

## SECOND FLOOR PLAN (SHOWING THIRD FLOOR STRUCTURE) – WEST MILL

Principal floor structure is in steel.

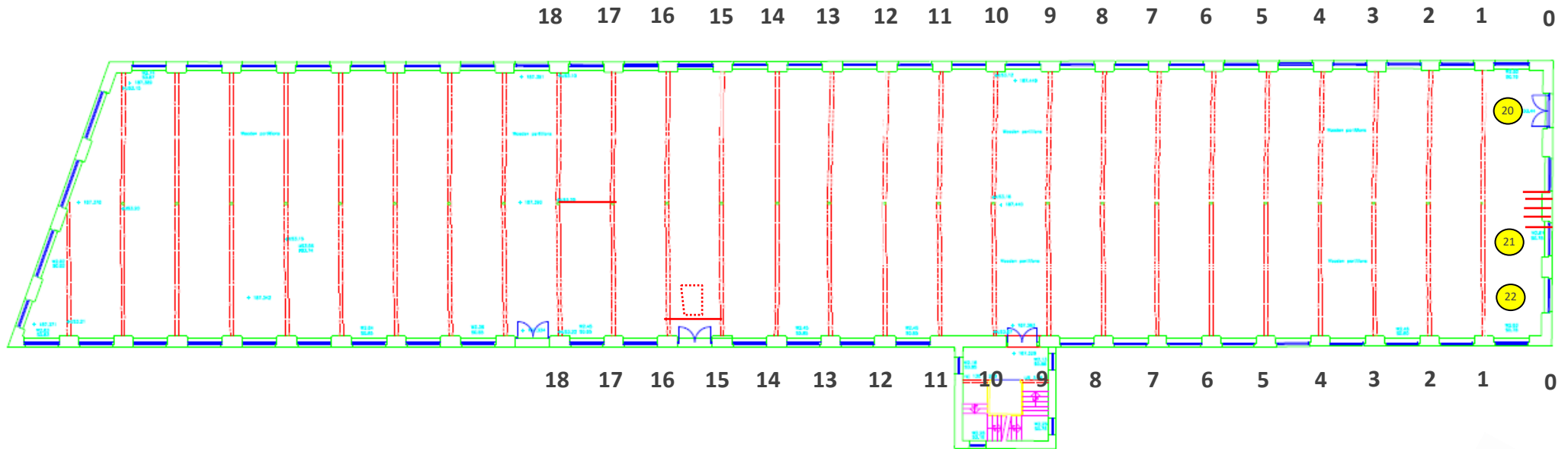


### Key

- ⊗ Position reference for photo observation
- 1** Grid numbers
- Joist is decayed
- ⊡ Area where floorboards are decayed or unstable

## FIRST FLOOR PLAN (SHOWING SECOND FLOOR STRUCTURE) – WEST MILL

Principal floor structure is in steel.

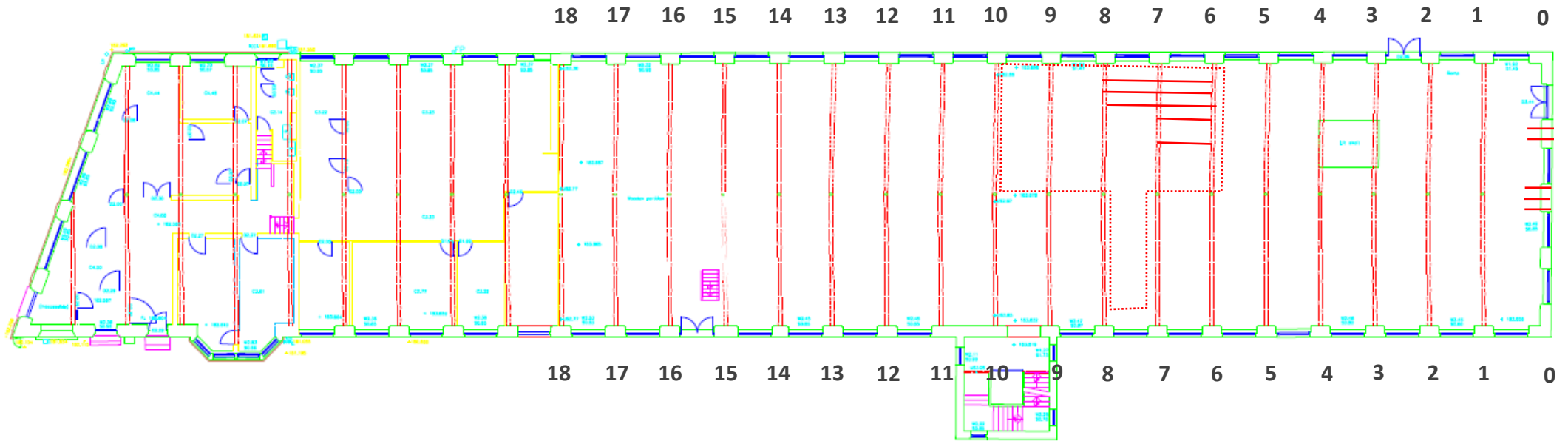


### Key




- ⊗ Position reference for photo observation
- 1** Grid numbers
- Joist is decayed
- ⋯ Area where floorboards are decayed or unstable

## GROUND FLOOR PLANS (SHOWING FIRST FLOOR STRUCTURE) – WEST MILL

Principal floor structure is in steel.



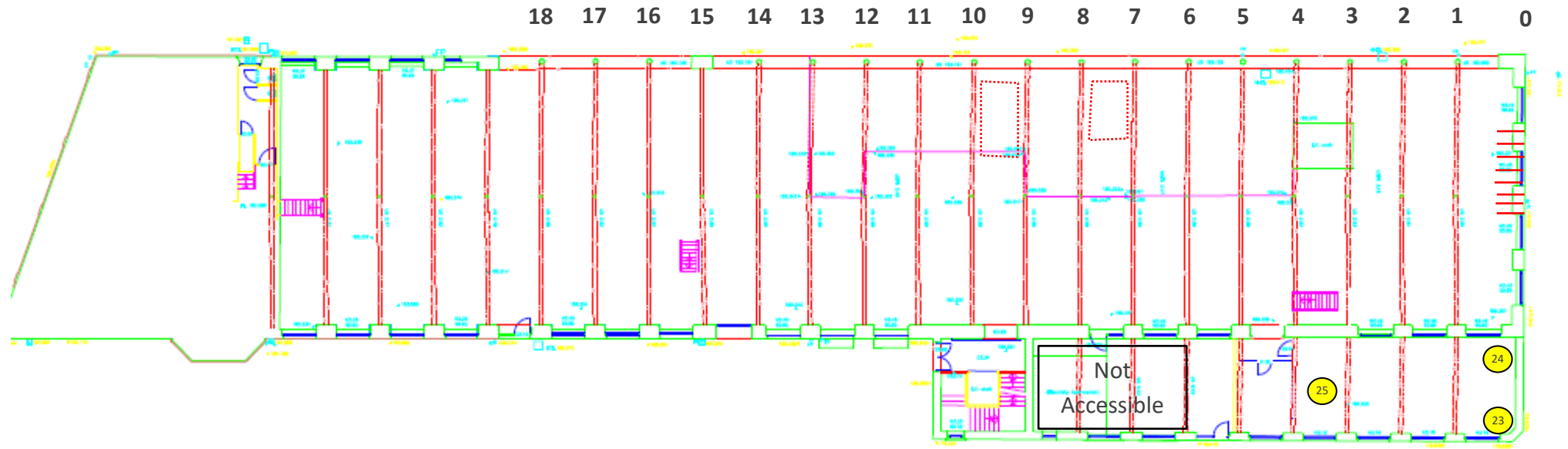
### Key

-  Position reference for photo observation
- 1** Grid numbers
-  Joist is decayed
-  Area where floorboards are decayed or unstable






## LOWER GROUND FLOOR PLANS (SHOWING GROUND FLOOR STRUCTURE) – WEST MILL

Principal floor structure is in steel.



### Key

-  Position reference for photo observation
- 1** Grid numbers
-  Joist is decayed
-  Area where floorboards are decayed or unstable



## PHOTO OBSERVATIONS FLOORS

19

The joists bear on a narrow steel beam across the windows.



20

Joist are bearing on a packer upon a narrow steel beam.

The floorboards are all quite damp on this level.



21

Joist are bearing on a packer upon a narrow steel beam.



22

Joist are bearing on a packer upon a narrow steel beam.



23

Slight surface decay to toe of rafter foot. The shoe has corroded. It is not possible to microdrill the rafter foot – but assume the foot of the rafter is decayed.



24

Slight surface decay to toe of rafter foot. The shoe has corroded. It is not possible to microdrill the rafter foot – but assume the foot of the rafter is decayed.



25

Steel tie beams, with timber principal rafters that connect with a shoe. Grid 4 E rafter foot has surface decay to its tip and the shoe is corroded – assume decayed in shoe.



## SUMMARY

### Roof

Purlins bearings into N wall are sound. The valley beam is decayed in the N wall.

- Truss W Bearing: 4 decayed, 14 sound
- Shoe W Truss: 8 decayed, 10 sound
- Shoe E Truss: 8 decayed, 10 sound
- Truss E Bearing: 1 decayed, 17 sound
- 1 Truss requires full replacement (Grid 7)

Valley beam shoe connections – 36 locations – 11 decayed, 25 sound

- 3 valley beams require full replacement

James Lyon, Tim Floyd – April 2025

## MICRO DRILL

The micro drill drills a 2mm diameter needle into the timber, measuring both the torque generated by the drill motor to turn the drill bit – known as ‘drill’ (dark green shaded curve on the graph) and-more importantly- the resistance being experienced by the motor responsible for sliding the whole mechanism forward at a pre-set rate – known as ‘feed’ (light green shaded curve).

The torque generated in the drill and the resistance experienced by the feed mechanism are generally correlative. However wet timber - or the existence of other materials such as resin which may have been used in past repair - can affect the drill to a greater or lesser extent than the feed.

Peaks in the graphs represent torque/resistance being experienced by the drill/feed. The Y axis is magnitude of resistance/torque, with 100(%) representing that value where the motor can no longer move the feed mechanism at its pre-set feed speed (which would require a reduction in the feed speed).

The machine has 5 pre-set feed speeds that can be used – dependent on the nature of the timber. For example, dense medieval oak generally requires a low feed speed of 25 - 100cm/min, softwood requires 100 – 150cm/min. The faster feed speeds of 175 and 250cm/min are more applicable to living trees (another application for this equipment). Adhering to these criteria means that any reading over around 30% amplitude (on the Y-axis) represents dense and sound timber – especially when lower feed speeds are used.

Information regarding the individual drilling points is presented on the graphs in the status panel (top left) which shows details such as feed speed and orientation of the drill – shown as ‘Tilt’ and measured in degrees from horizontal (a drilling straight down from above would be indicated by  $-90^\circ$ , straight up would be indicated by  $+90^\circ$ , straight in horizontally would show as a tilt of  $0^\circ$ ).

Those graphs – generally the first 1 or 2, described in the comments as ‘calibration’ are important, as they represent a trace through timber known to be sound – and as such form a baseline for interpretation of subsequent graphs.

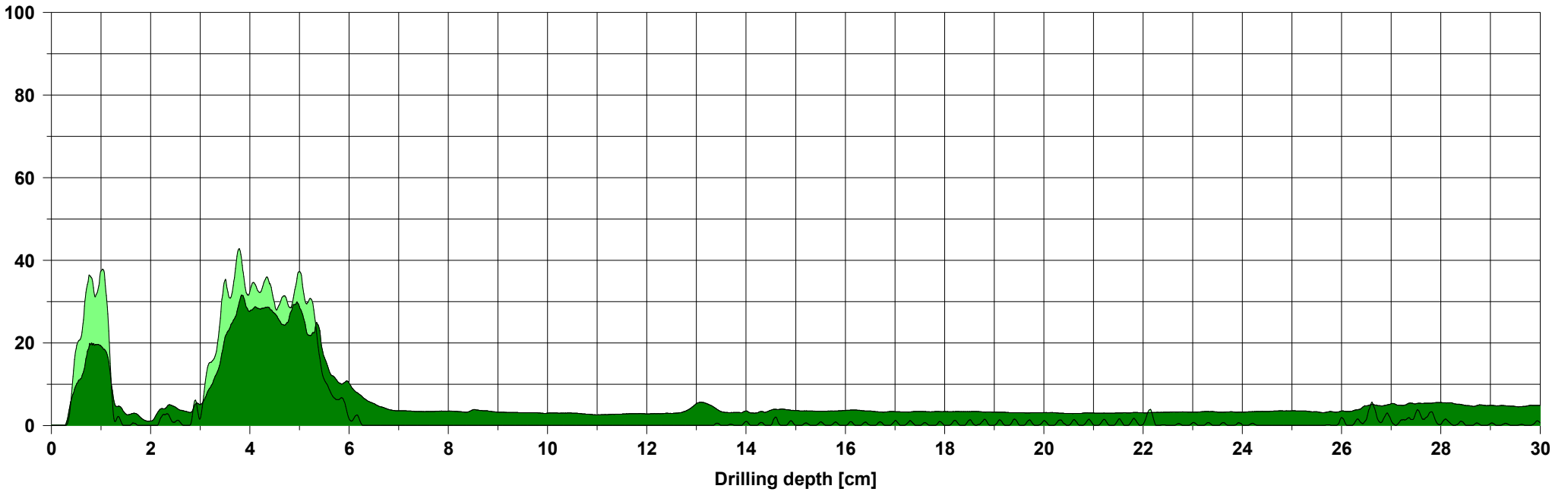
Close centred peaks and troughs in the graph represent the early wood late wood boundaries (growth rings) – with early rapid spring growth resulting in softer material, producing a trough, and the later summer growth being slower, producing a narrower and denser growth phase marked by a peak in the graph.

The most important feature of the graph is the coherence of the profile rather than the amplitude (which can be manipulated by adjusting the feed or drill inputs). Even and regular fluctuations would generally denote ‘healthy’ fibres, as opposed to uneven and ‘broken teeth’ like profiles which could be indicative of decay.

### Measuring / object data

Measurement no.:	1	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.0.VB	Needle state:	---	Level	:
Drilling depth	: 31,42 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 125 / 263	Species	:
Time	: 09:03:12	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



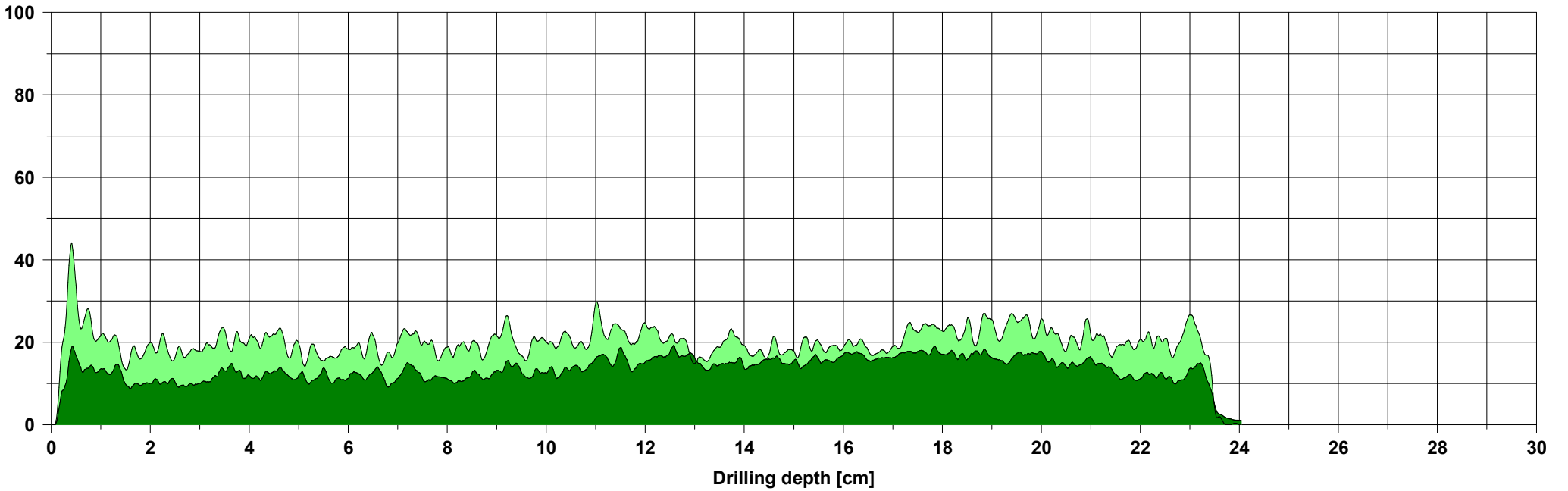
### Assessment

### Comment

### Measuring / object data

Measurement no.:	2	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.0.VB5	Needle state:	---	Level	:
Drilling depth	: 24,04 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 127 / 256	Species	:
Time	: 09:04:43	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



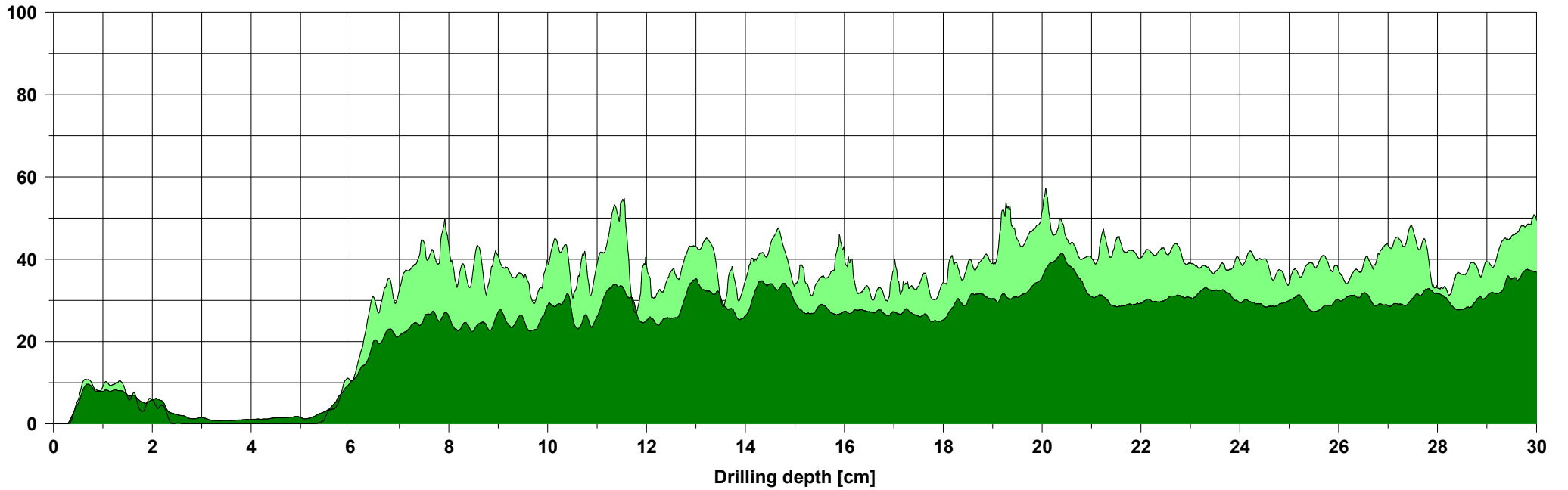
Assessment

Comment

### Measuring / object data

Measurement no.:	3	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.1.1A	Needle state:	---	Level	:
Drilling depth	: 30,00 cm	Tilt	: +47°	Direction:	
Date	: 03.04.2025	Offset	: 113 / 249	Species	:
Time	: 10:58:41	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



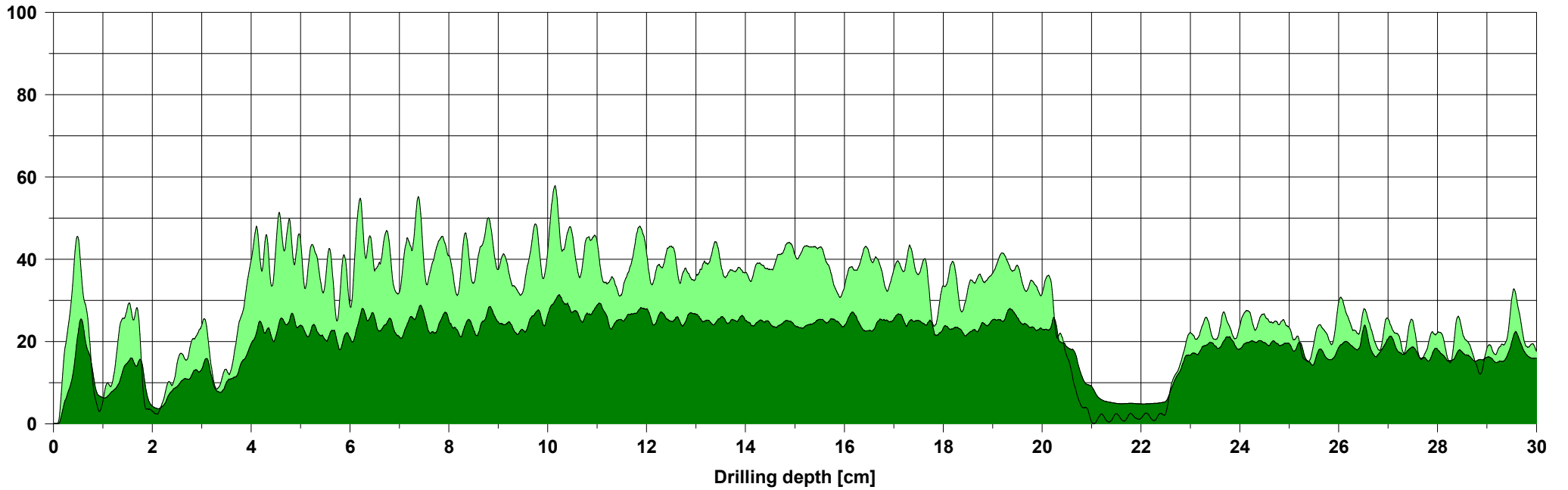
Assessment

Comment

### Measuring / object data

Measurement no.:	4	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.1.1A2	Needle state:	---	Level	:
Drilling depth	: 30,00 cm	Tilt	: +75°	Direction:	
Date	: 03.04.2025	Offset	: 110 / 247	Species	:
Time	: 10:59:48	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



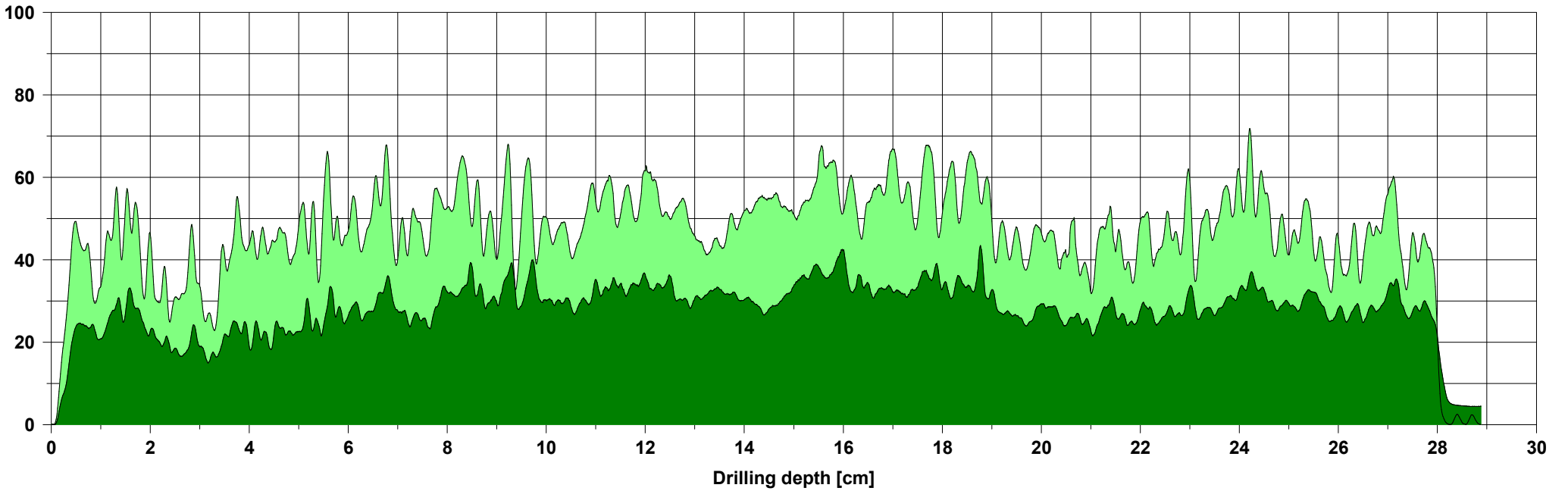
### Assessment

### Comment

### Measuring / object data

Measurement no.:	5	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.1.1A4	Needle state:	---	Level	:
Drilling depth	: 28,88 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 111 / 246	Species	:
Time	: 11:01:09	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



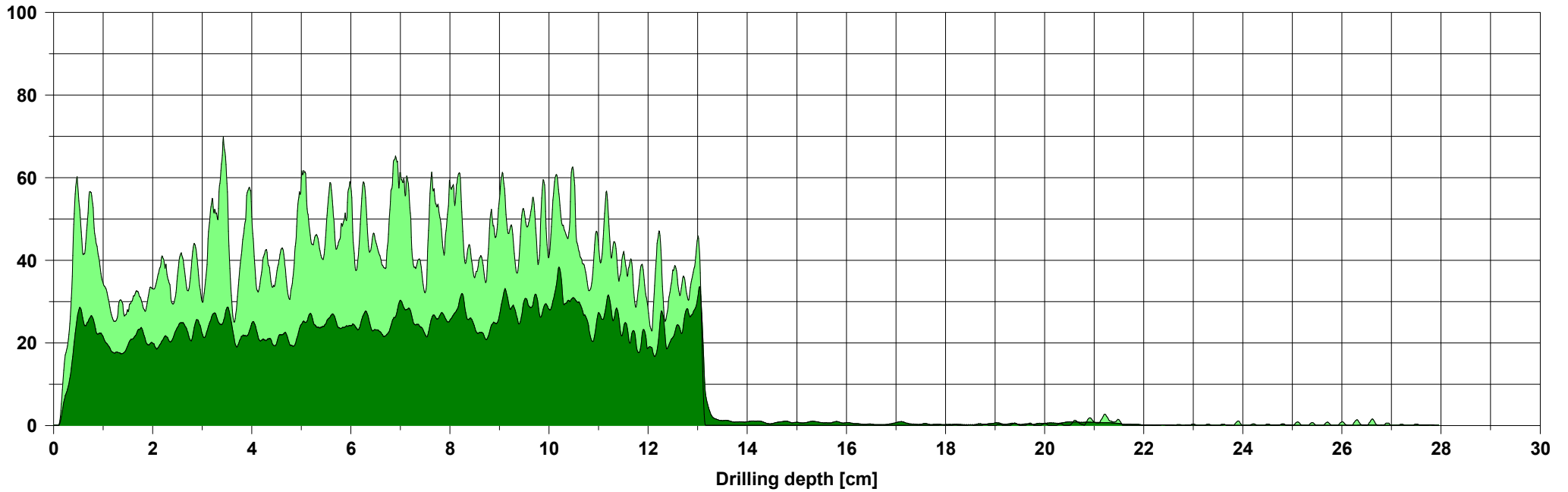
### Assessment

### Comment

### Measuring / object data

Measurement no.:	6	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.1.2A	Needle state:	---	Level	:
Drilling depth	: 27,96 cm	Tilt	: +8°	Direction:	
Date	: 03.04.2025	Offset	: 96 / 254	Species	:
Time	: 11:05:13	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



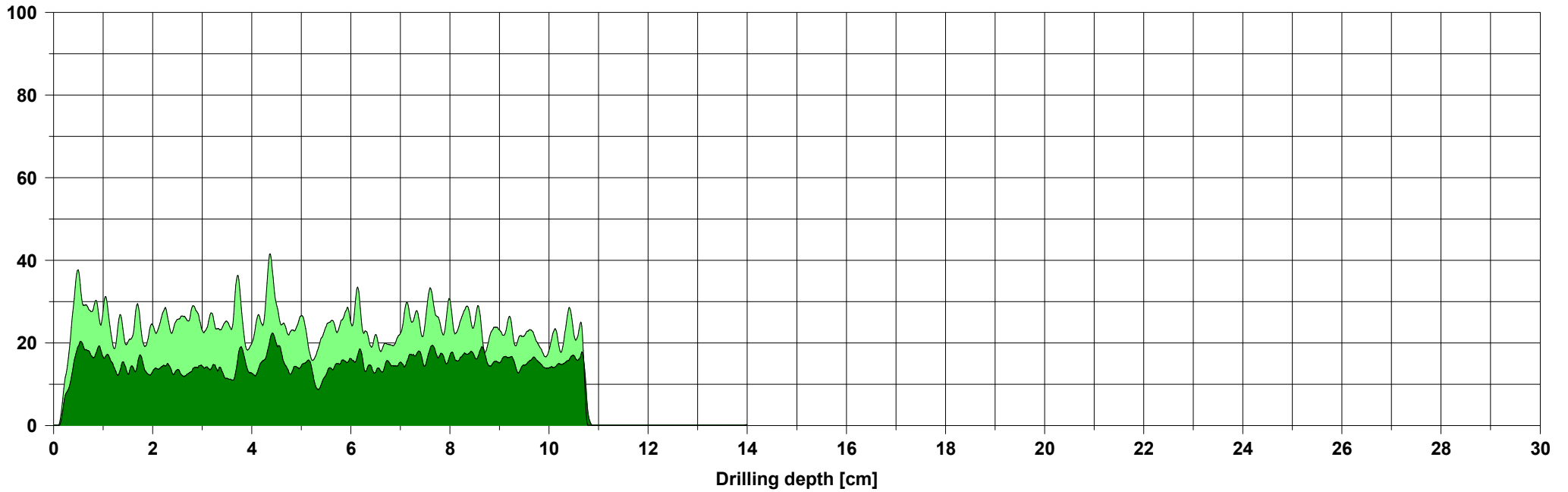
### Assessment

### Comment

### Measuring / object data

Measurement no.:	7	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.1.3A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +7°	Direction:	
Date	: 03.04.2025	Offset	: 97 / 250	Species	:
Time	: 11:08:08	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



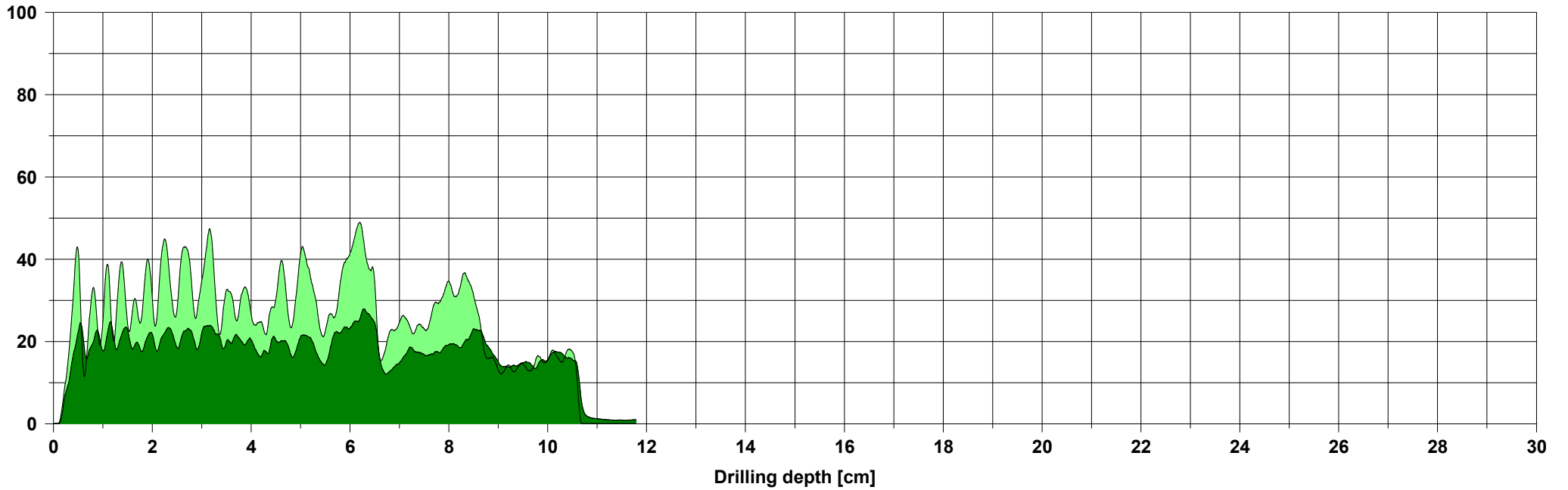
### Assessment

### Comment

### Measuring / object data

Measurement no.:	8	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.1.4A	Needle state:	---	Level	:
Drilling depth	: 11,79 cm	Tilt	: +3°	Direction:	
Date	: 03.04.2025	Offset	: 92 / 248	Species	:
Time	: 11:08:58	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



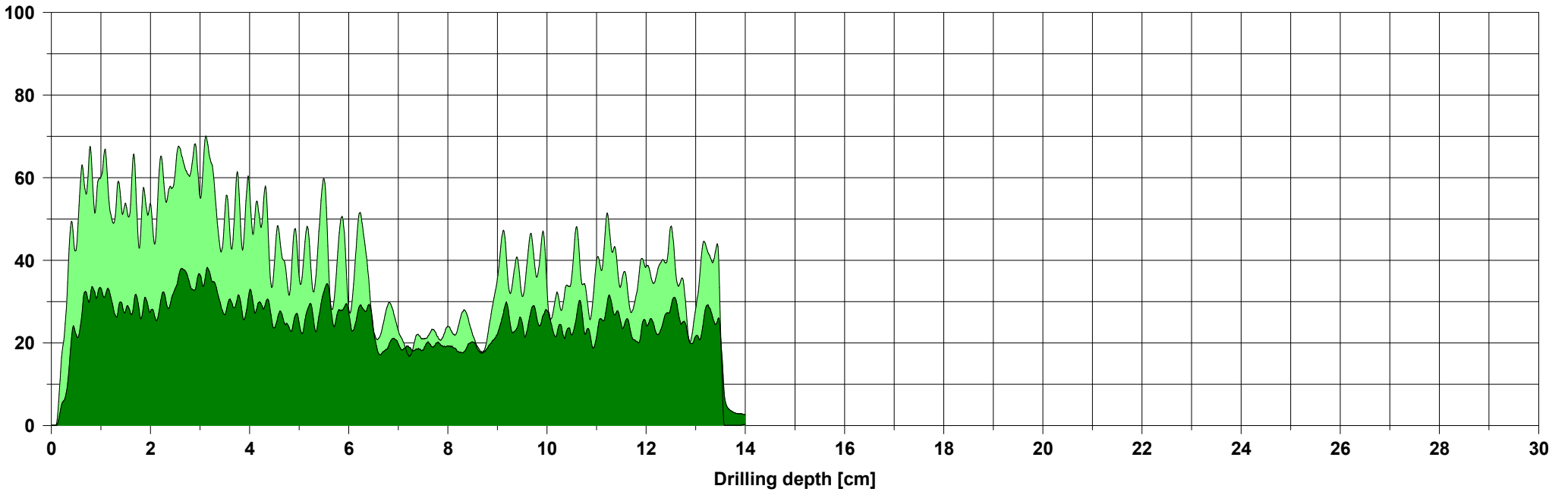
### Assessment

### Comment

### Measuring / object data

Measurement no.:	9	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.1.5A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +5°	Direction:	
Date	: 03.04.2025	Offset	: 96 / 250	Species	:
Time	: 11:06:27	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



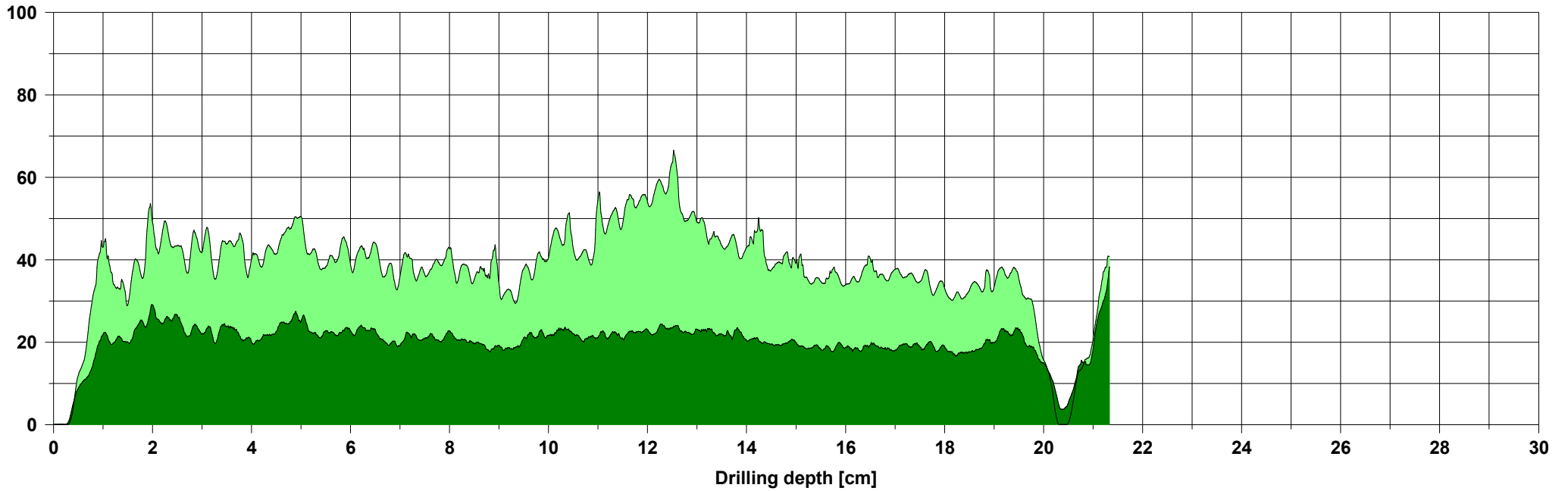
### Assessment

### Comment

### Measuring / object data

Measurement no.:	10	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.1.6A	Needle state:	---	Level	:
Drilling depth	: 21,33 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 118 / 258	Species	:
Time	: 09:13:08	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



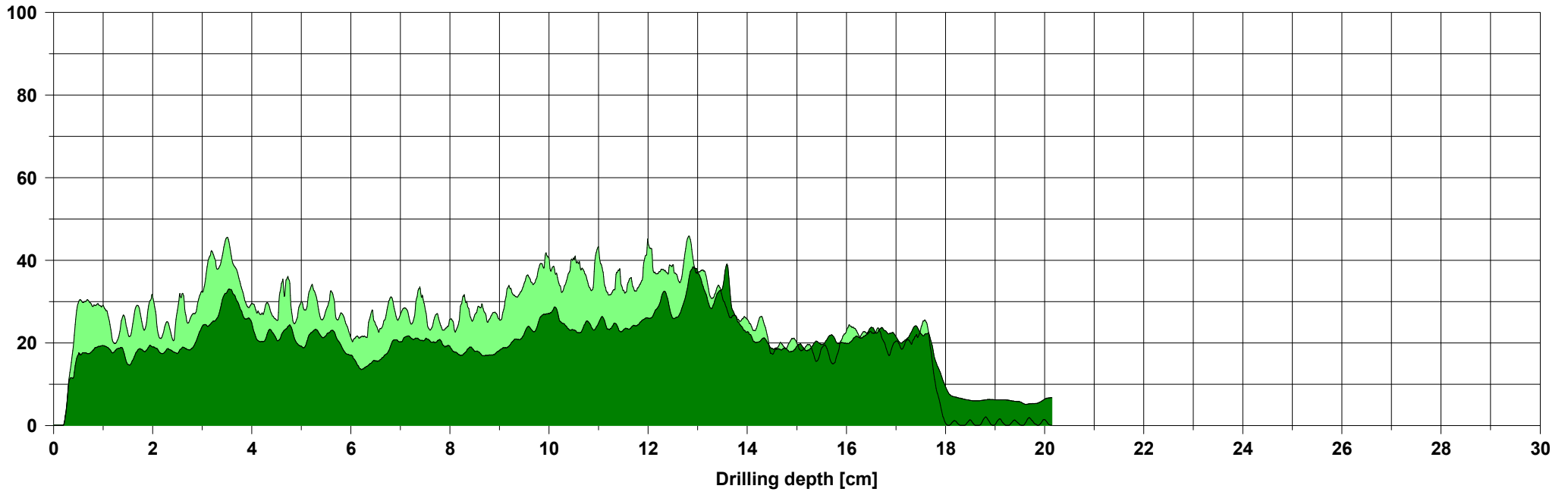
### Assessment

### Comment

### Measuring / object data

Measurement no.:	11	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.2.1A	Needle state:	---	Level	:
Drilling depth	: 20,15 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 108 / 251	Species	:
Time	: 10:56:06	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



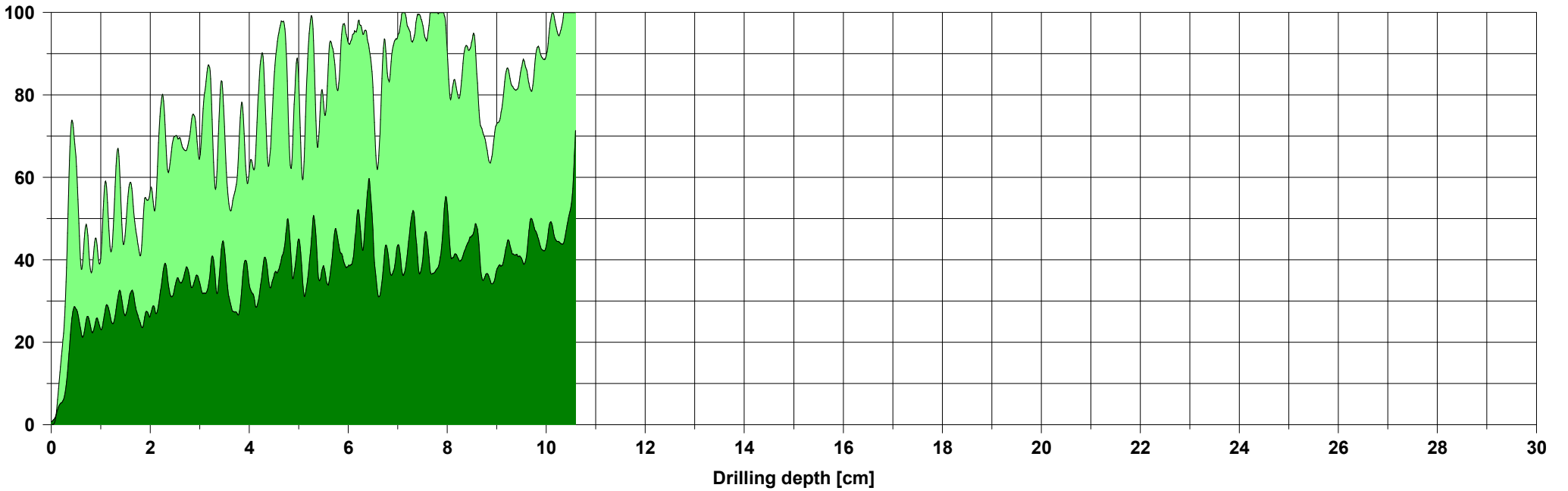
### Assessment

### Comment

### Measuring / object data

Measurement no.:	12	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.2.2A	Needle state:	---	Level	:
Drilling depth	: 10,59 cm	Tilt	: +8°	Direction:	
Date	: 03.04.2025	Offset	: 91 / 259	Species	:
Time	: 11:12:16	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



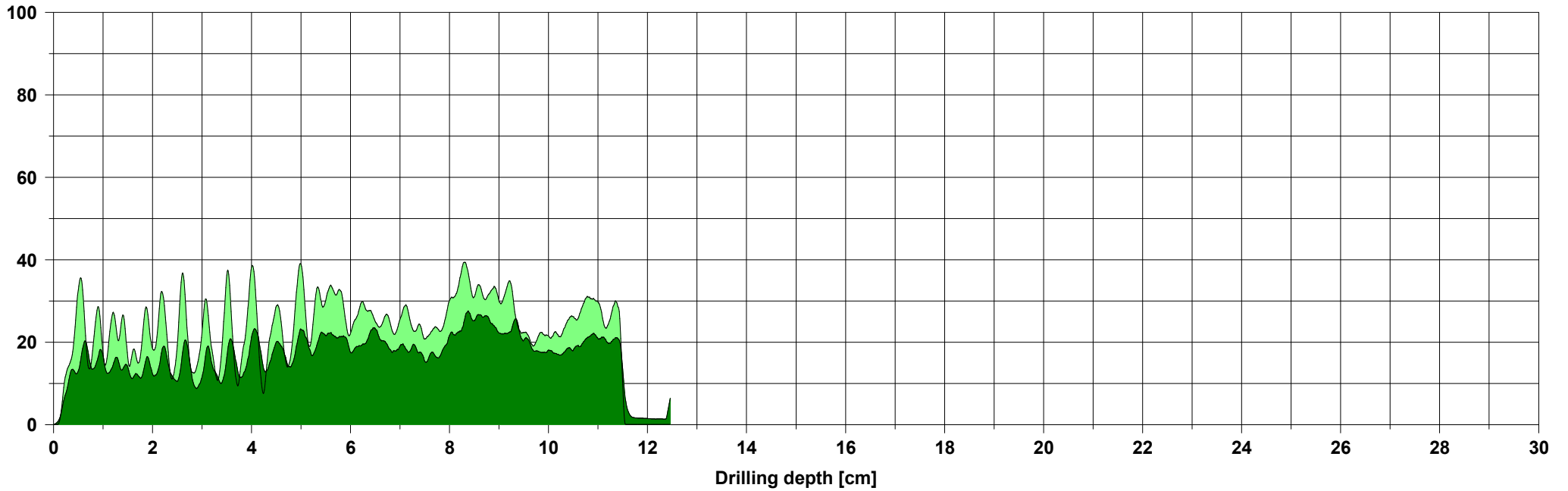
### Assessment

### Comment

### Measuring / object data

Measurement no.:	13	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.2.3A	Needle state:	---	Level	:
Drilling depth	: 12,46 cm	Tilt	: +3°	Direction:	
Date	: 03.04.2025	Offset	: 91 / 263	Species	:
Time	: 11:16:43	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



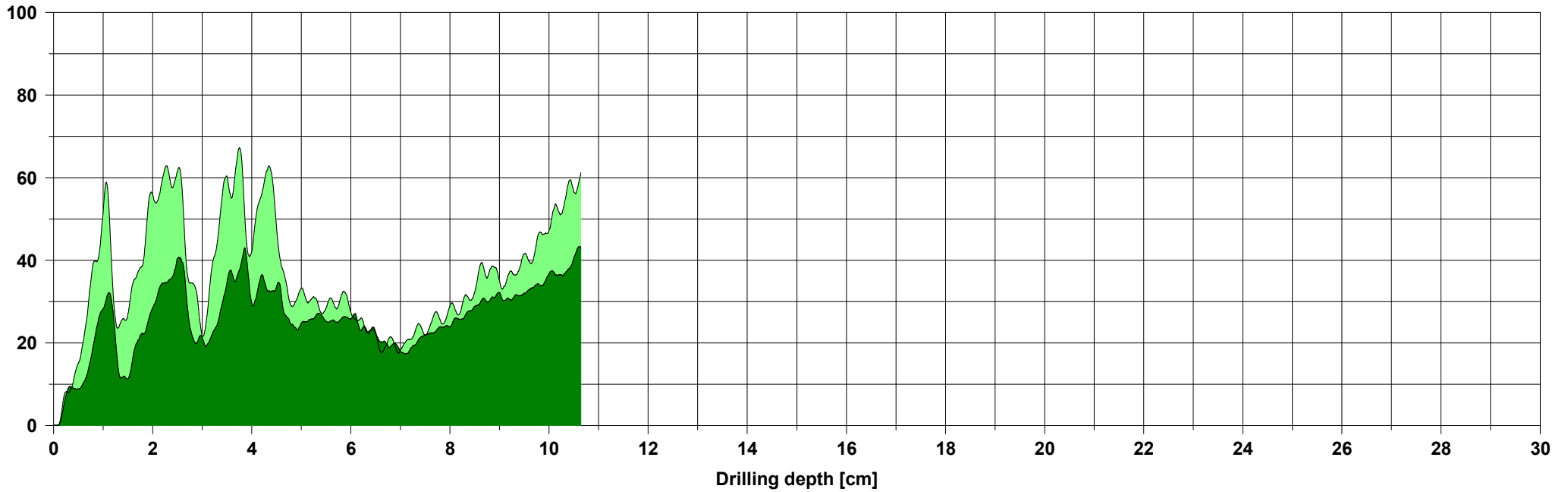
### Assessment

### Comment

### Measuring / object data

Measurement no.:	14	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.2.4A	Needle state:	---	Level	:
Drilling depth	: 10,64 cm	Tilt	: +1°	Direction:	
Date	: 03.04.2025	Offset	: 93 / 259	Species	:
Time	: 11:17:31	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



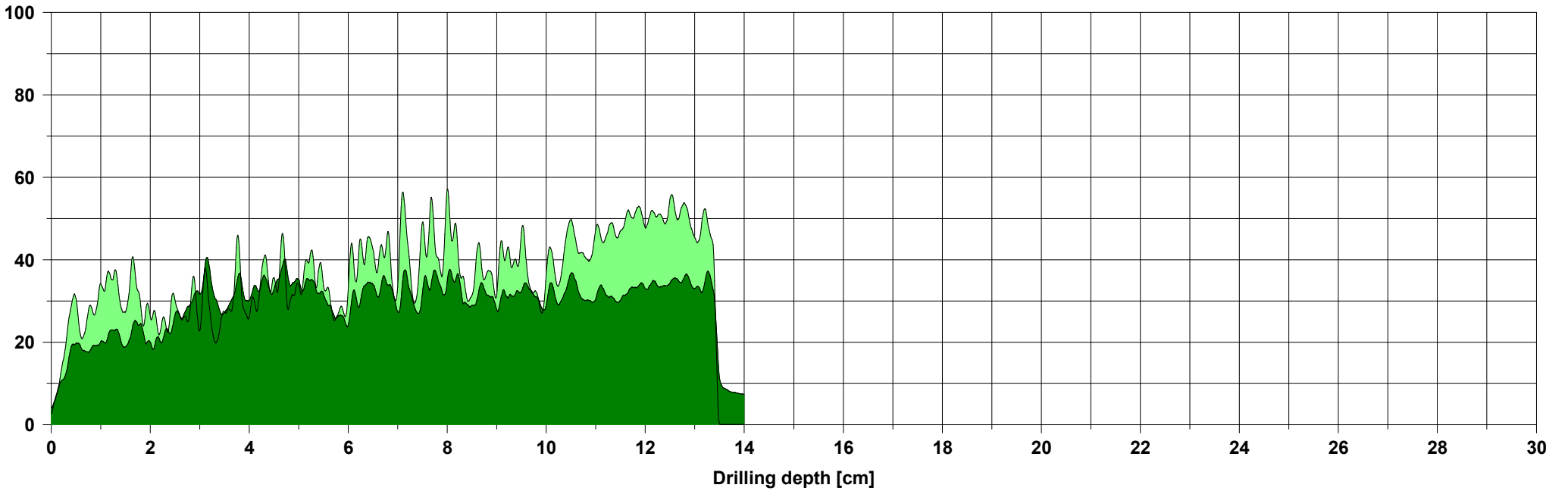
### Assessment

### Comment

### Measuring / object data

Measurement no.:	15	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.2.5A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +8°	Direction:	
Date	: 03.04.2025	Offset	: 90 / 266	Species	:
Time	: 11:13:40	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



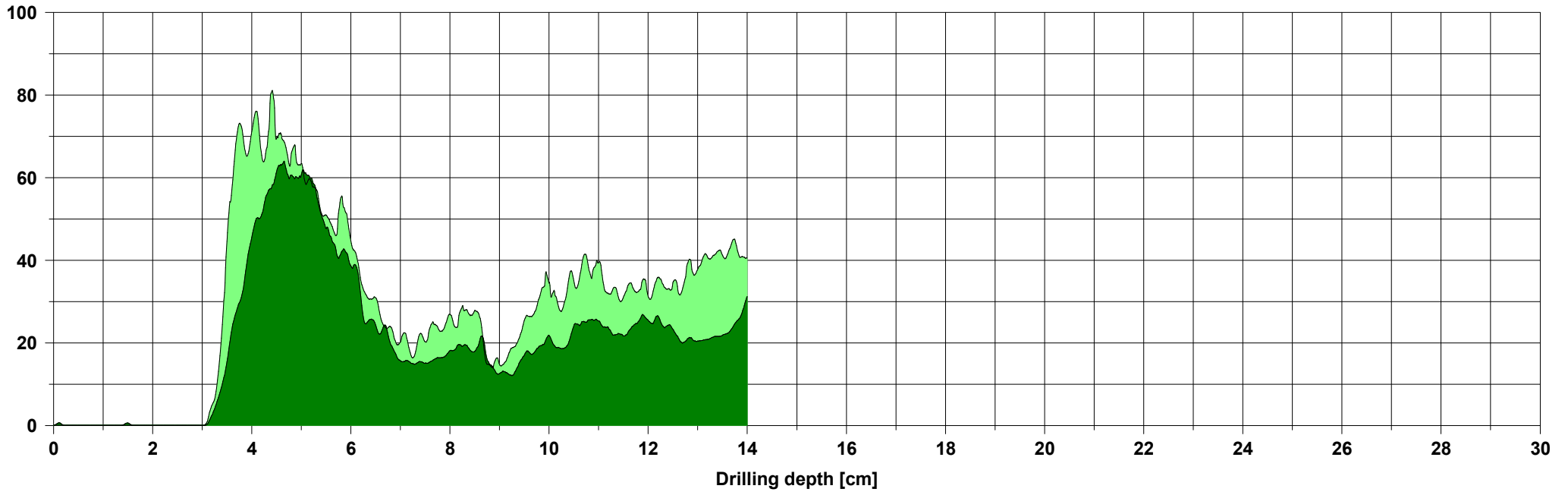
Assessment

Comment

### Measuring / object data

Measurement no.:	16	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.2.5A0	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +52°	Direction:	
Date	: 03.04.2025	Offset	: 103 / 296	Species	:
Time	: 11:15:35	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



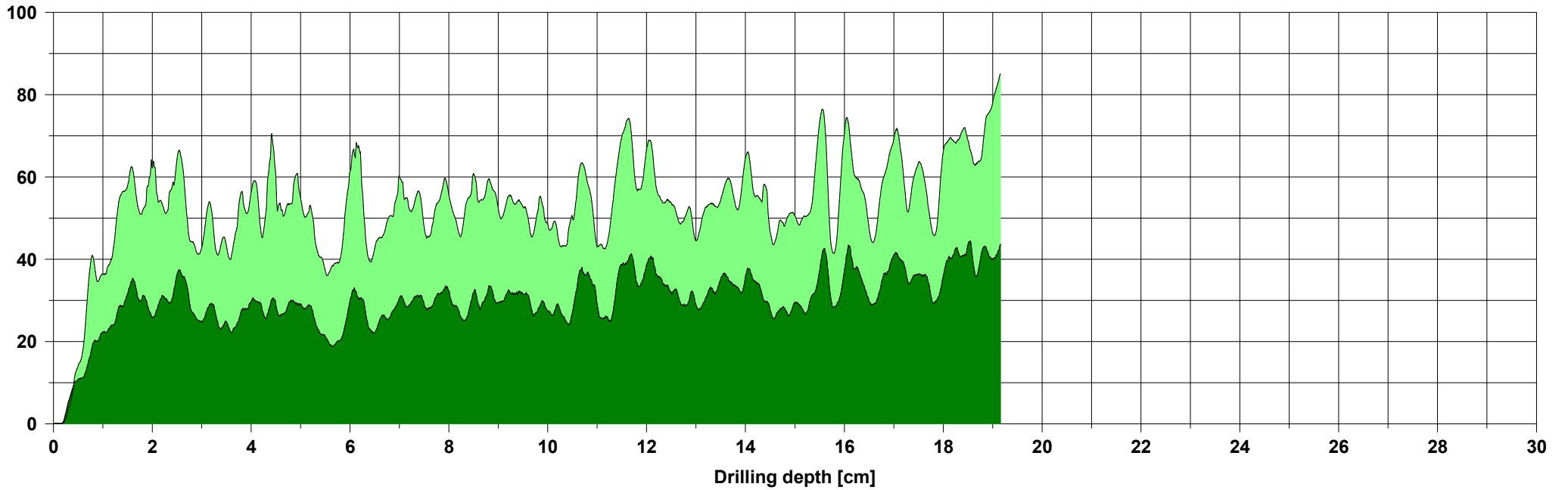
Assessment

Comment

### Measuring / object data

Measurement no.:	17	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.2.6A	Needle state:	---	Level	:
Drilling depth	: 19,16 cm	Tilt	: +48°	Direction:	
Date	: 03.04.2025	Offset	: 116 / 255	Species	:
Time	: 09:16:07	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



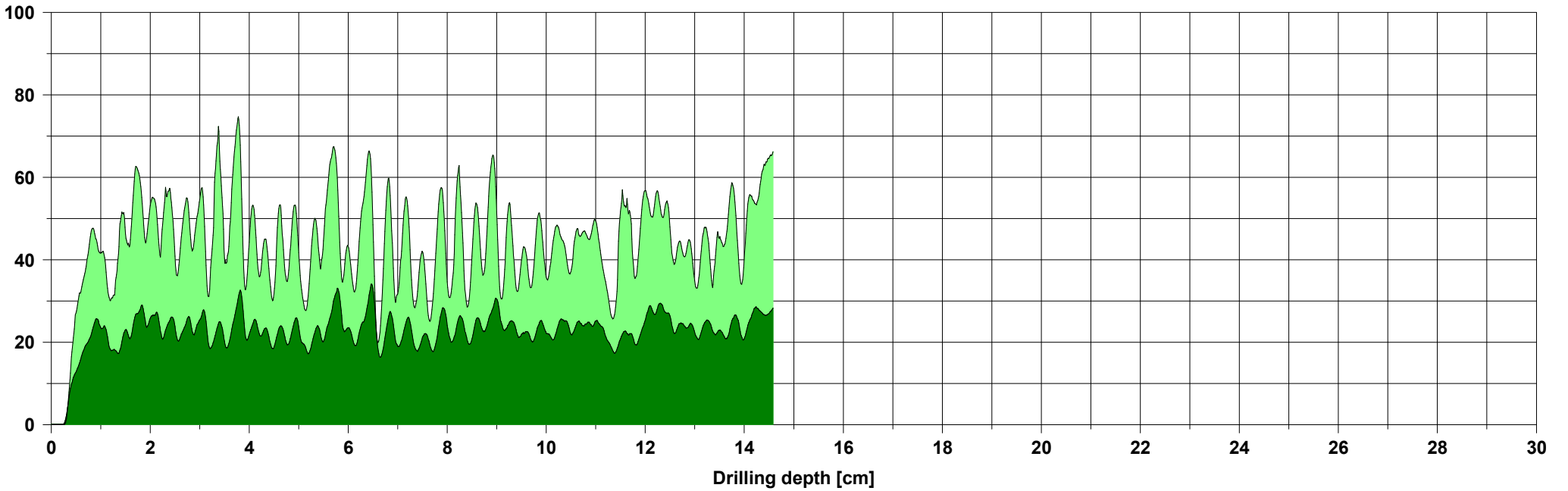
Assessment

Comment

### Measuring / object data

Measurement no.:	18	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.3.1A	Needle state:	---	Level	:
Drilling depth	: 14,58 cm	Tilt	: +46°	Direction:	
Date	: 03.04.2025	Offset	: 111 / 251	Species	:
Time	: 10:52:47	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



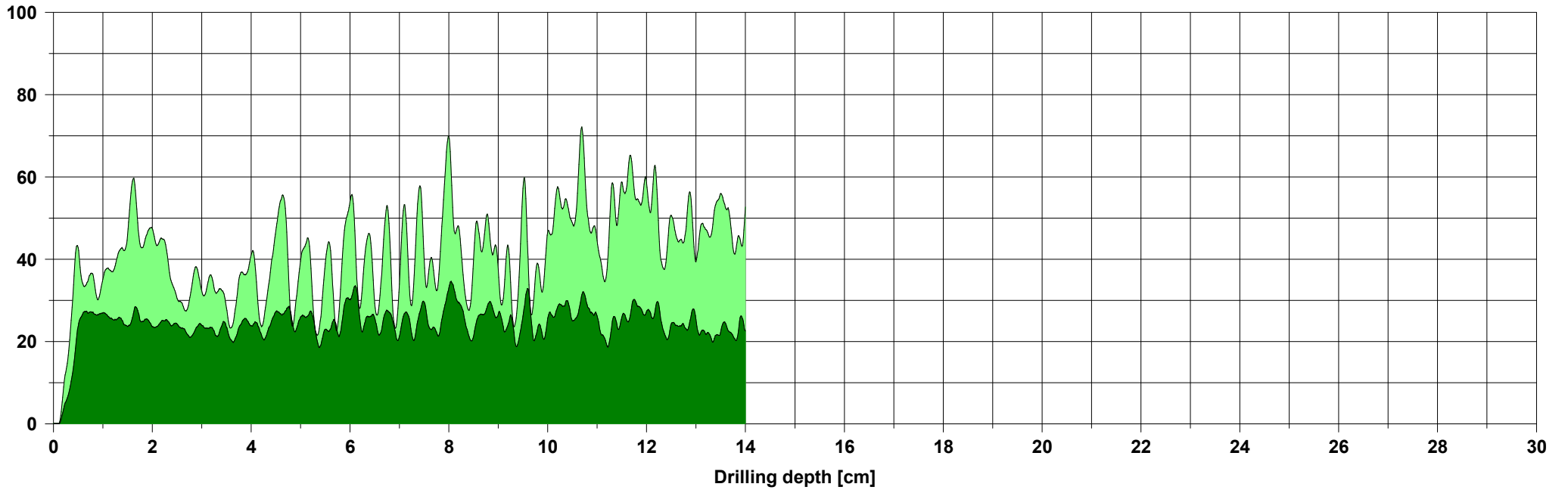
### Assessment

### Comment

### Measuring / object data

Measurement no.:	19	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.3.2A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +5°	Direction:	
Date	: 03.04.2025	Offset	: 95 / 256	Species	:
Time	: 11:20:05	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



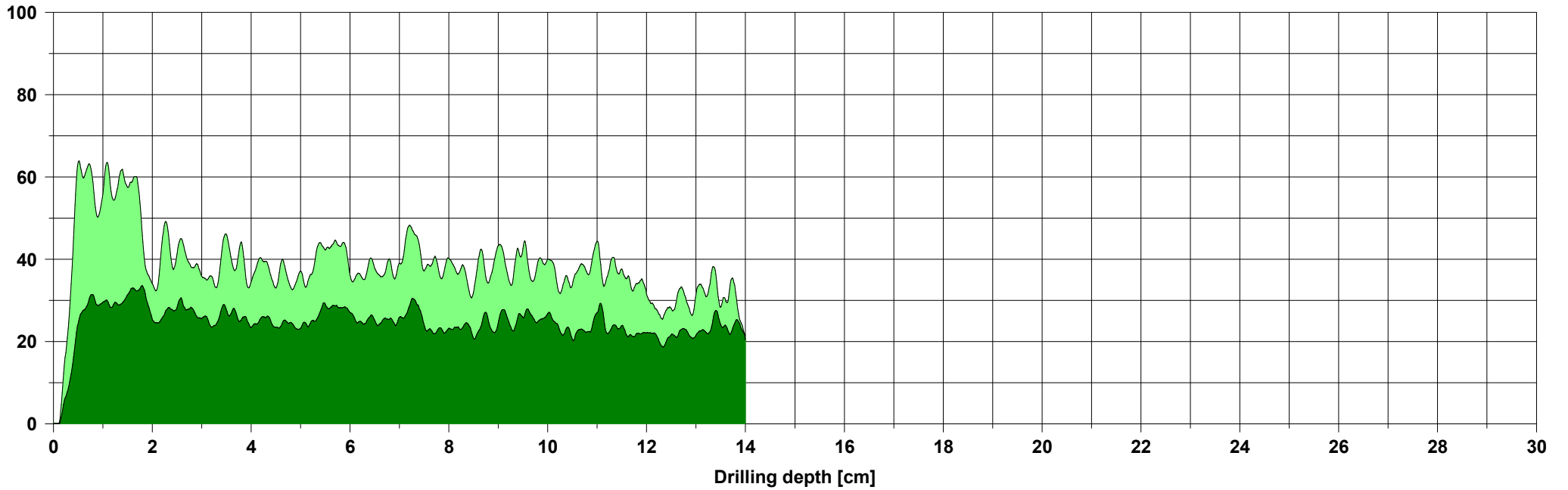
### Assessment

### Comment

### Measuring / object data

Measurement no.:	20	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.3.5A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +3°	Direction:	
Date	: 03.04.2025	Offset	: 87 / 262	Species	:
Time	: 11:20:54	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



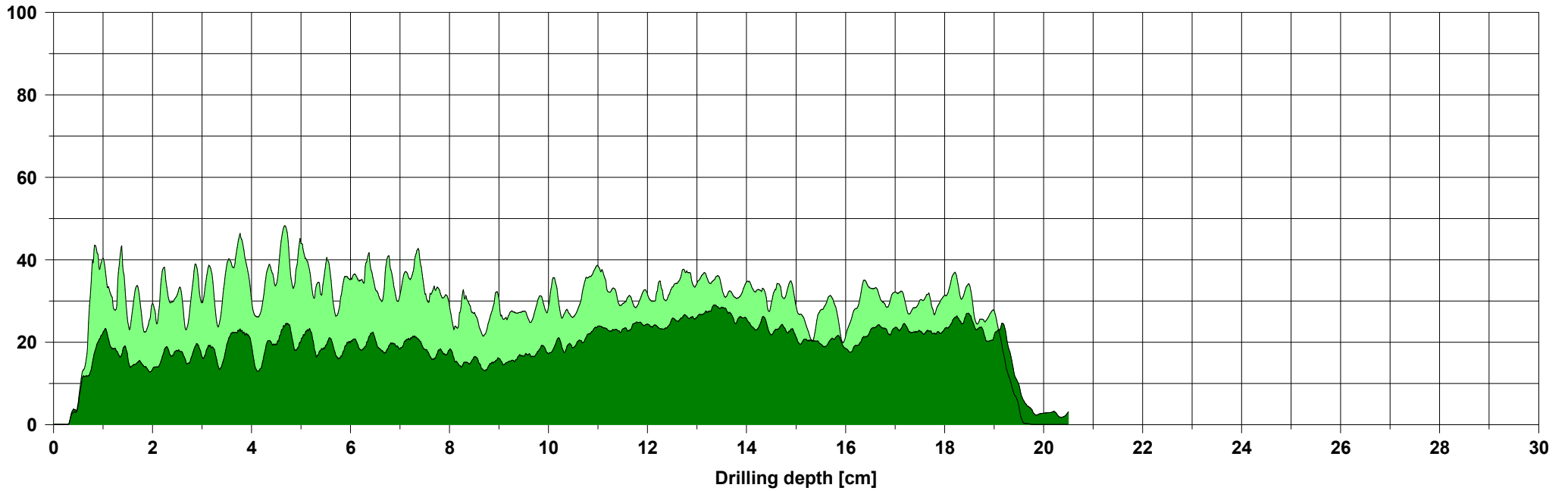
### Assessment

### Comment

### Measuring / object data

Measurement no.:	21	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.3.6A	Needle state:	---	Level	:
Drilling depth	: 20,50 cm	Tilt	: +46°	Direction:	
Date	: 03.04.2025	Offset	: 115 / 255	Species	:
Time	: 09:17:23	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



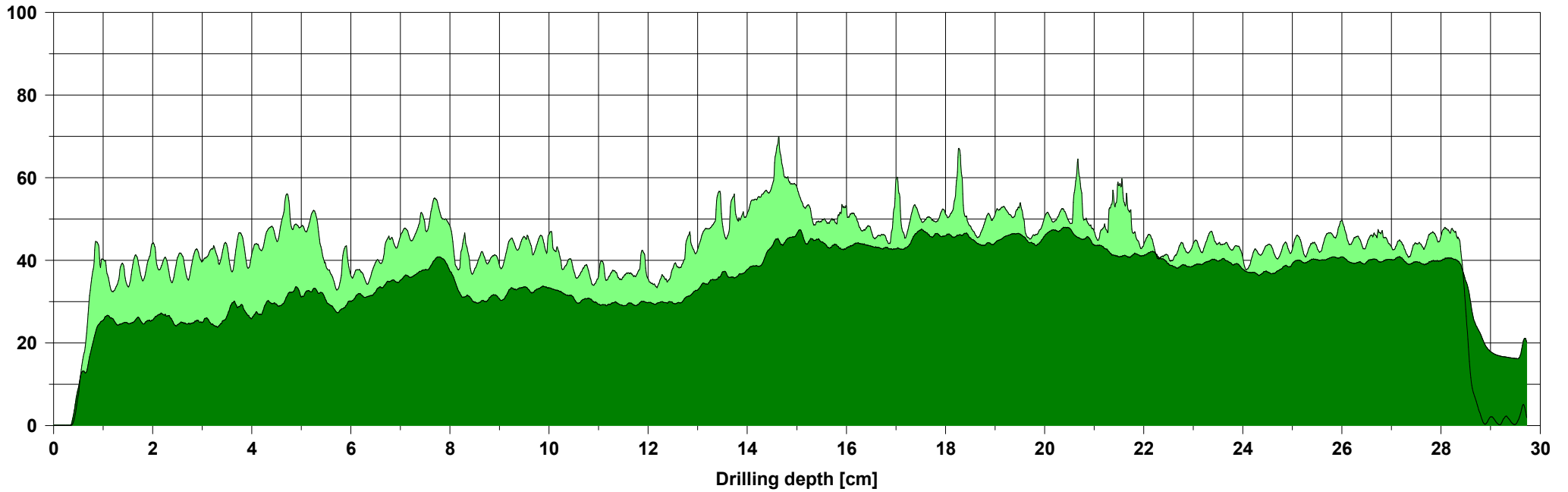
### Assessment

### Comment

### Measuring / object data

Measurement no.:	22	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.4.1A	Needle state:	---	Level	:
Drilling depth	: 29,73 cm	Tilt	: +48°	Direction:	
Date	: 03.04.2025	Offset	: 110 / 251	Species	:
Time	: 10:50:16	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



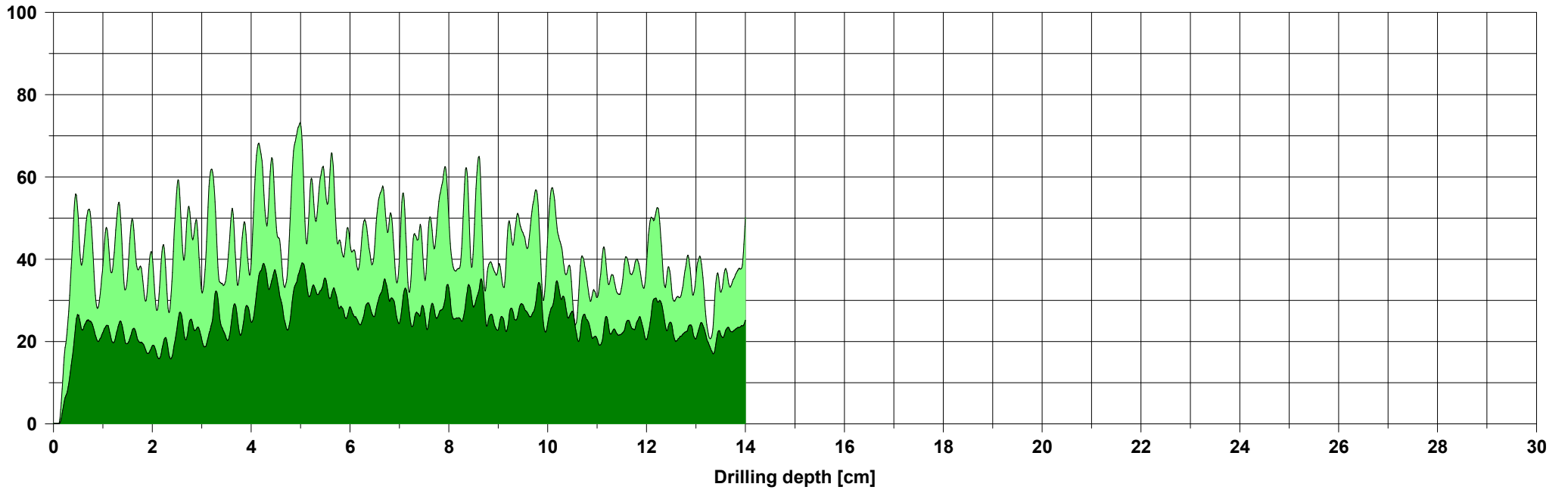
Assessment

Comment

### Measuring / object data

Measurement no.:	23	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.4.2A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +4°	Direction:	
Date	: 03.04.2025	Offset	: 91 / 254	Species	:
Time	: 11:23:04	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



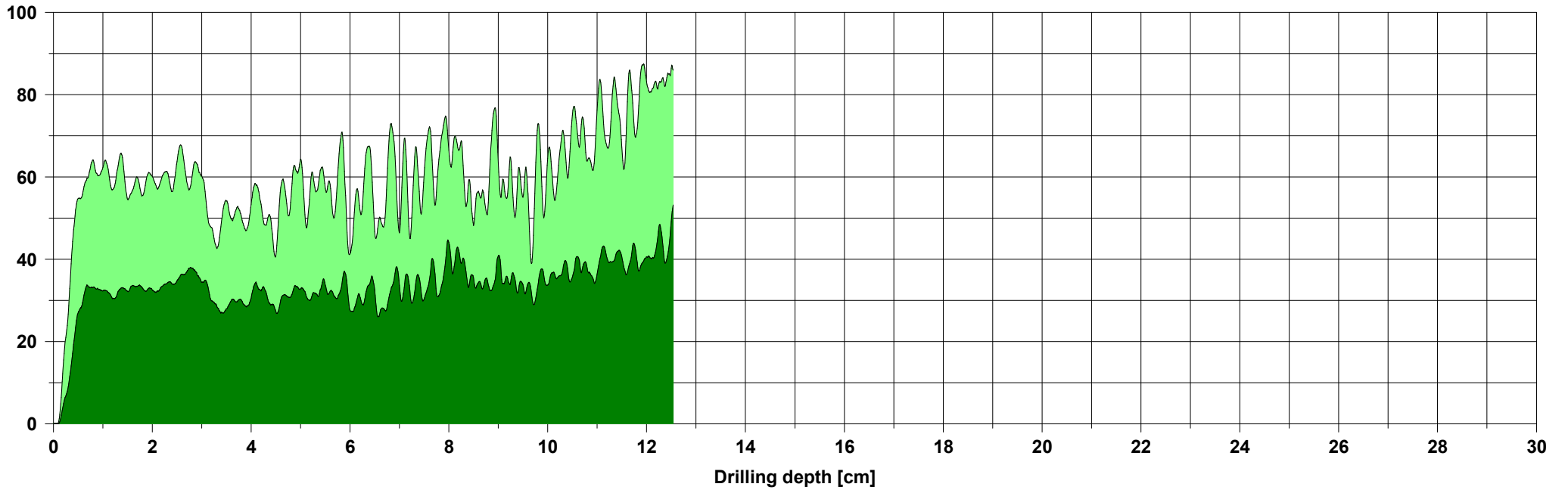
### Assessment

### Comment

### Measuring / object data

Measurement no.:	24	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.4.5A	Needle state:	---	Level	:
Drilling depth	: 12,54 cm	Tilt	: +1°	Direction:	
Date	: 03.04.2025	Offset	: 88 / 255	Species	:
Time	: 11:24:37	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



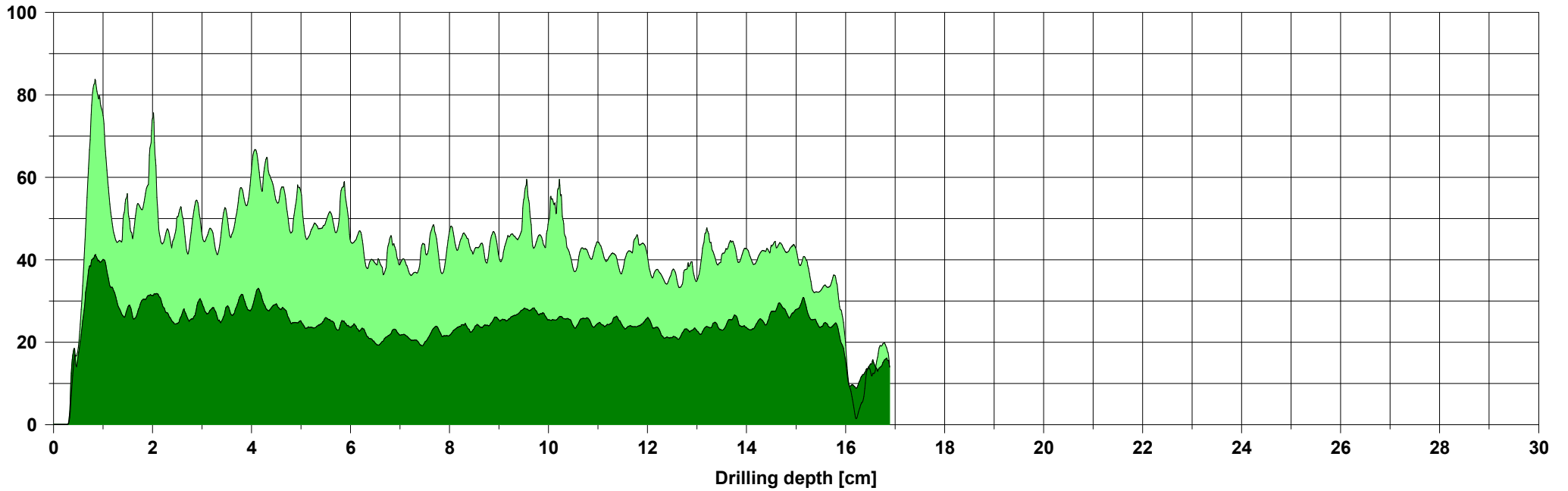
### Assessment

### Comment

### Measuring / object data

Measurement no.:	25	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.4.6A	Needle state:	---	Level	:
Drilling depth	: 16,89 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 118 / 256	Species	:
Time	: 09:19:02	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



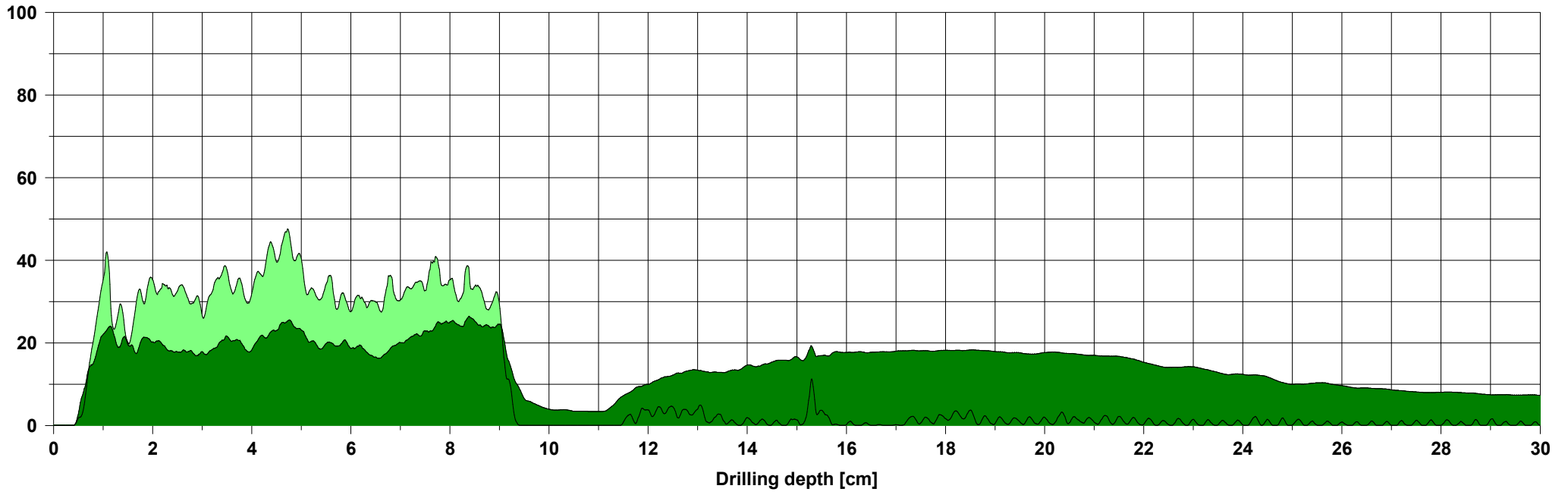
### Assessment

### Comment

### Measuring / object data

Measurement no.:	26	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.5.1A	Needle state:	---	Level	:
Drilling depth	: 30,00 cm	Tilt	: +48°	Direction:	
Date	: 03.04.2025	Offset	: 112 / 252	Species	:
Time	: 10:46:50	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



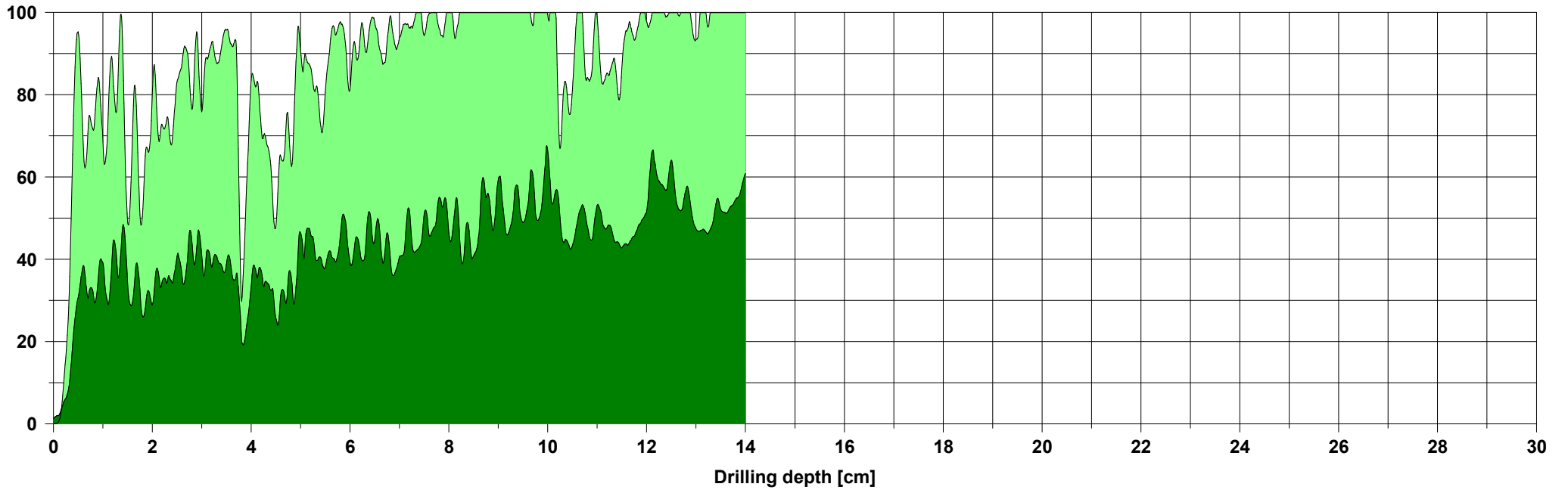
### Assessment

### Comment

### Measuring / object data

Measurement no.:	27	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.5.2A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +5°	Direction:	
Date	: 03.04.2025	Offset	: 90 / 256	Species	:
Time	: 11:27:56	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



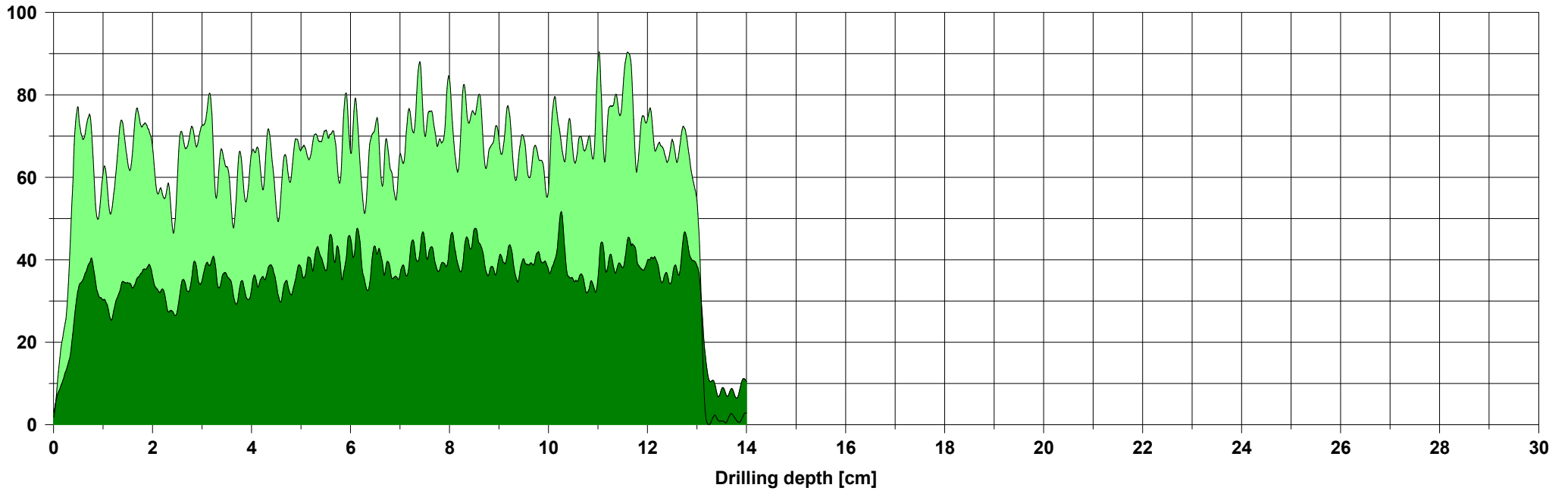
### Assessment

### Comment

### Measuring / object data

Measurement no.:	28	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.5.5A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +5°	Direction:	
Date	: 03.04.2025	Offset	: 85 / 266	Species	:
Time	: 11:28:52	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



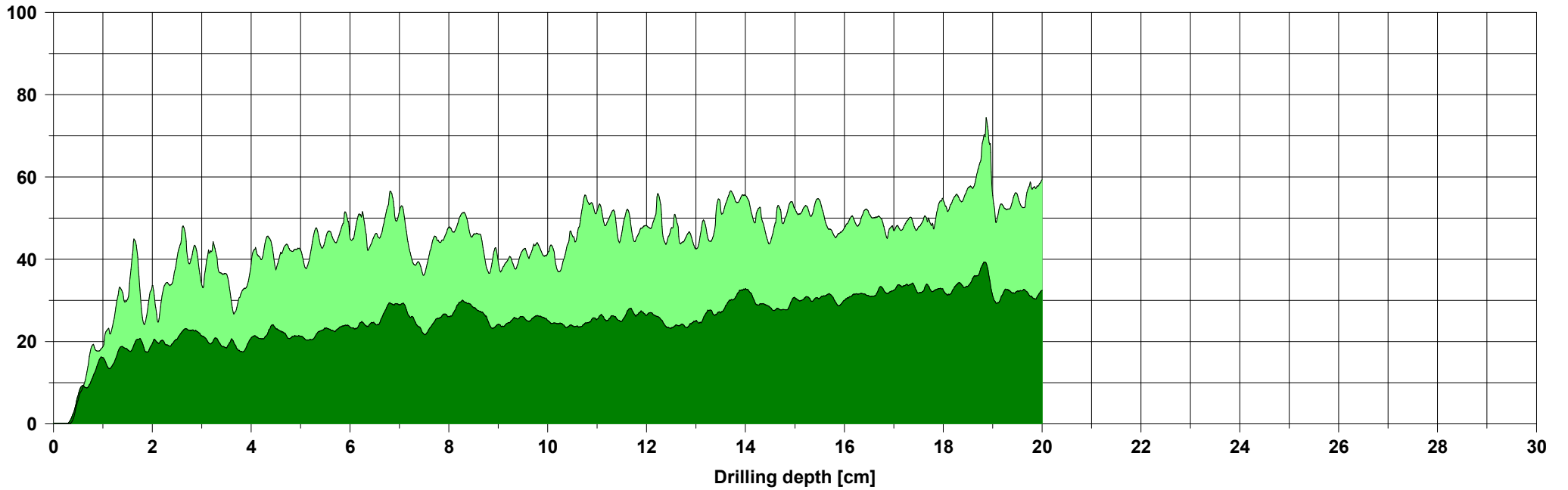
### Assessment

### Comment

### Measuring / object data

Measurement no.:	29	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.5.6A	Needle state:	---	Level	:
Drilling depth	: 20,00 cm	Tilt	: +47°	Direction:	
Date	: 03.04.2025	Offset	: 116 / 257	Species	:
Time	: 09:20:22	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



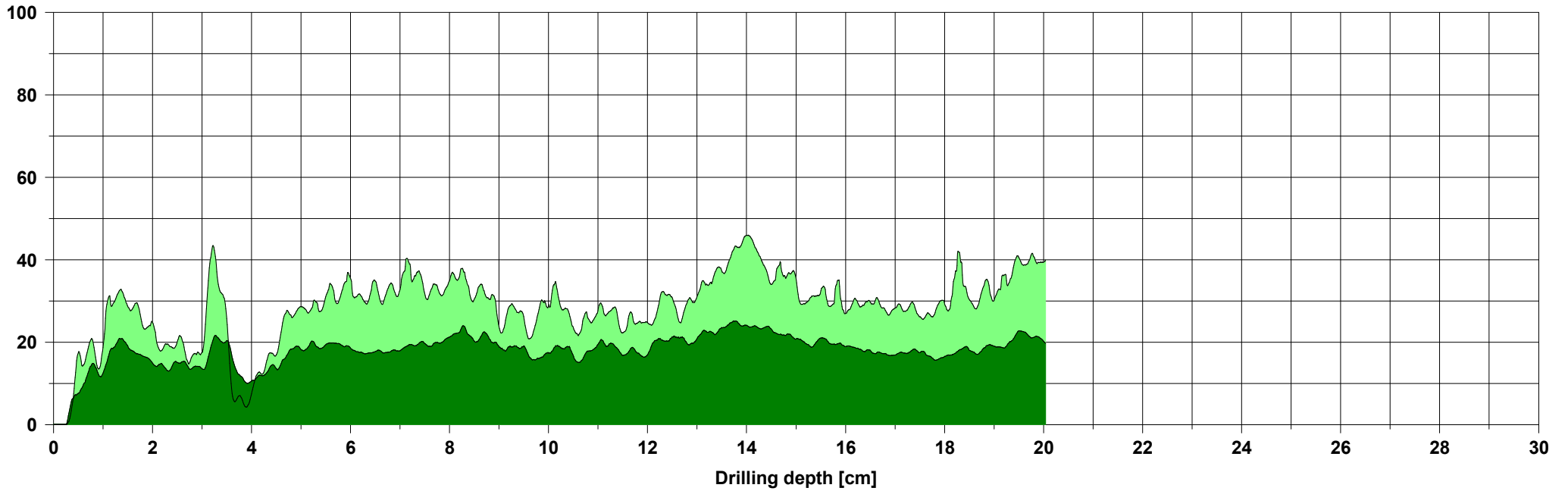
### Assessment

### Comment

### Measuring / object data

Measurement no.:	30	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.6.1A	Needle state:	---	Level	:
Drilling depth	: 20,04 cm	Tilt	: +48°	Direction:	
Date	: 03.04.2025	Offset	: 112 / 251	Species	:
Time	: 10:44:29	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



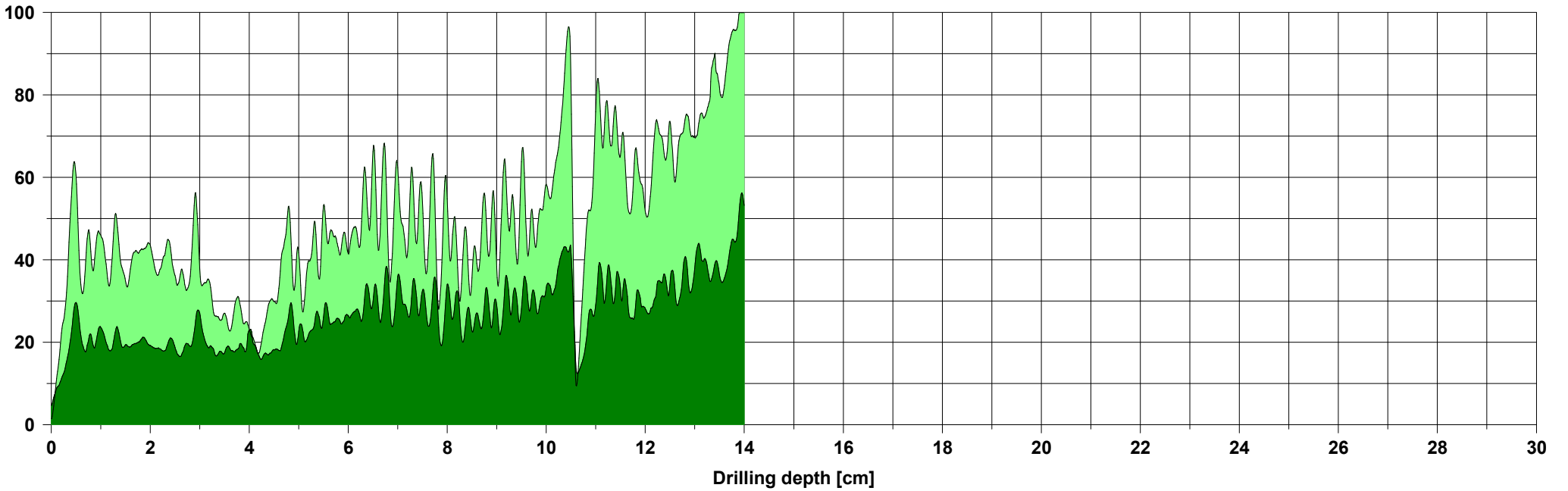
### Assessment

### Comment

### Measuring / object data

Measurement no.:	31	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.6.2A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +1°	Direction:	
Date	: 03.04.2025	Offset	: 87 / 272	Species	:
Time	: 11:31:20	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



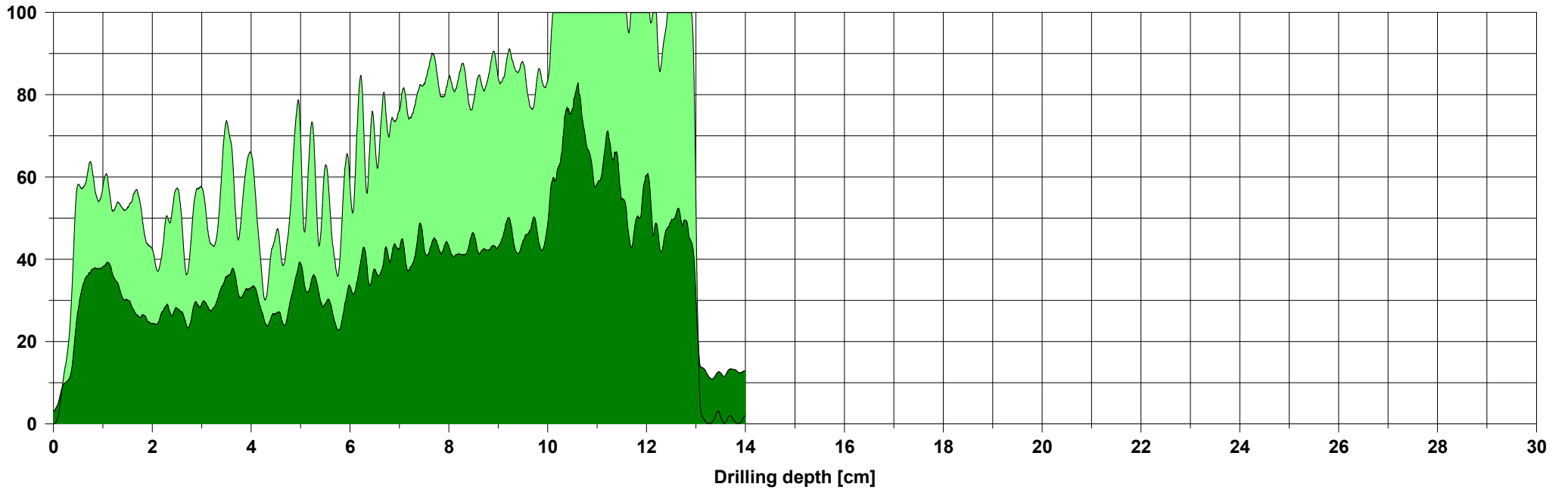
### Assessment

### Comment

### Measuring / object data

Measurement no.:	32	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.6.5A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +2°	Direction:	
Date	: 03.04.2025	Offset	: 92 / 304	Species	:
Time	: 11:32:04	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



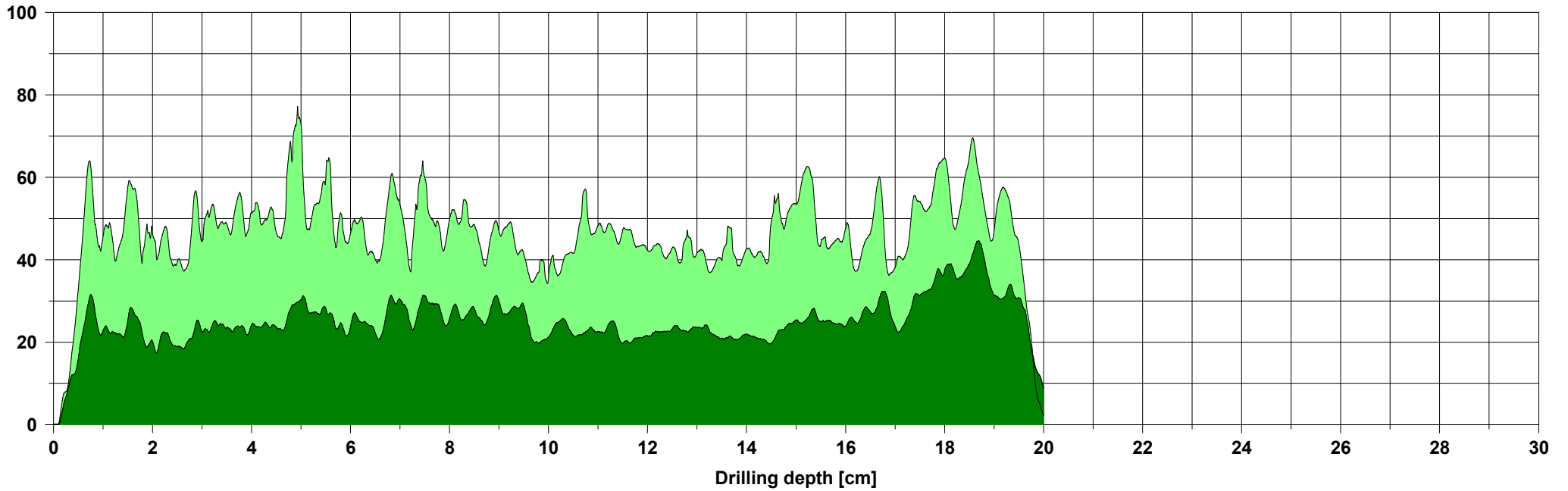
### Assessment

### Comment

### Measuring / object data

Measurement no.:	33	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.6.6A	Needle state:	---	Level	:
Drilling depth	: 20,00 cm	Tilt	: +46°	Direction:	
Date	: 03.04.2025	Offset	: 114 / 267	Species	:
Time	: 09:21:49	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



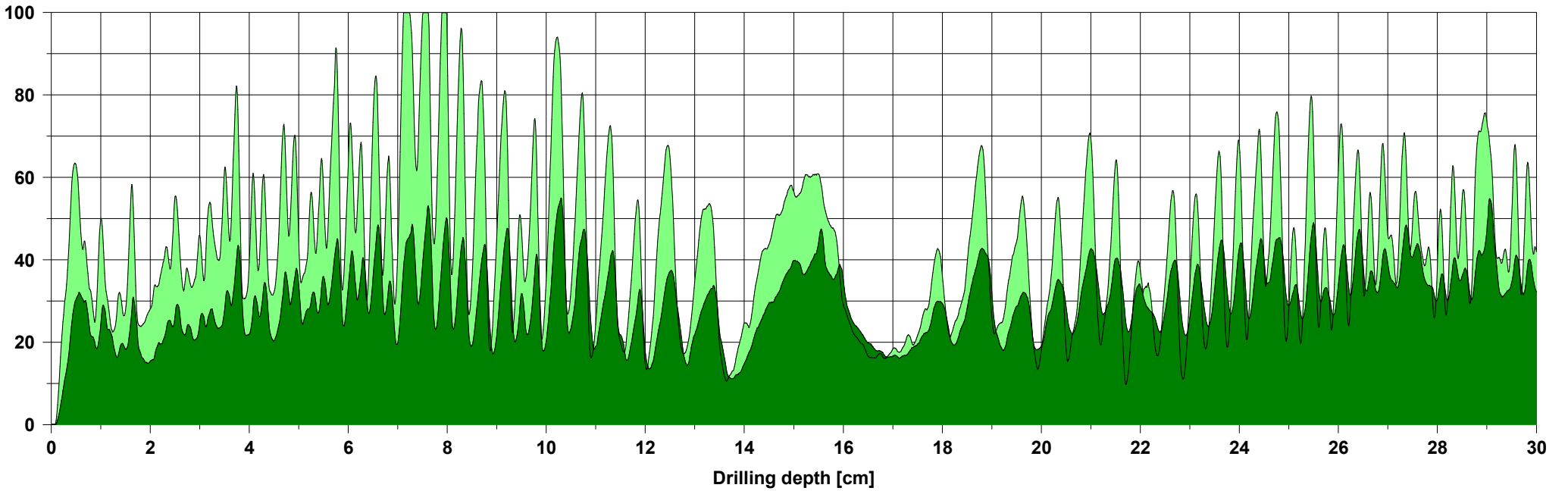
### Assessment

### Comment

### Measuring / object data

Measurement no.:	34	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.7.1A4	Needle state:	---	Level	:
Drilling depth	: 30,00 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 117 / 247	Species	:
Time	: 10:42:23	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



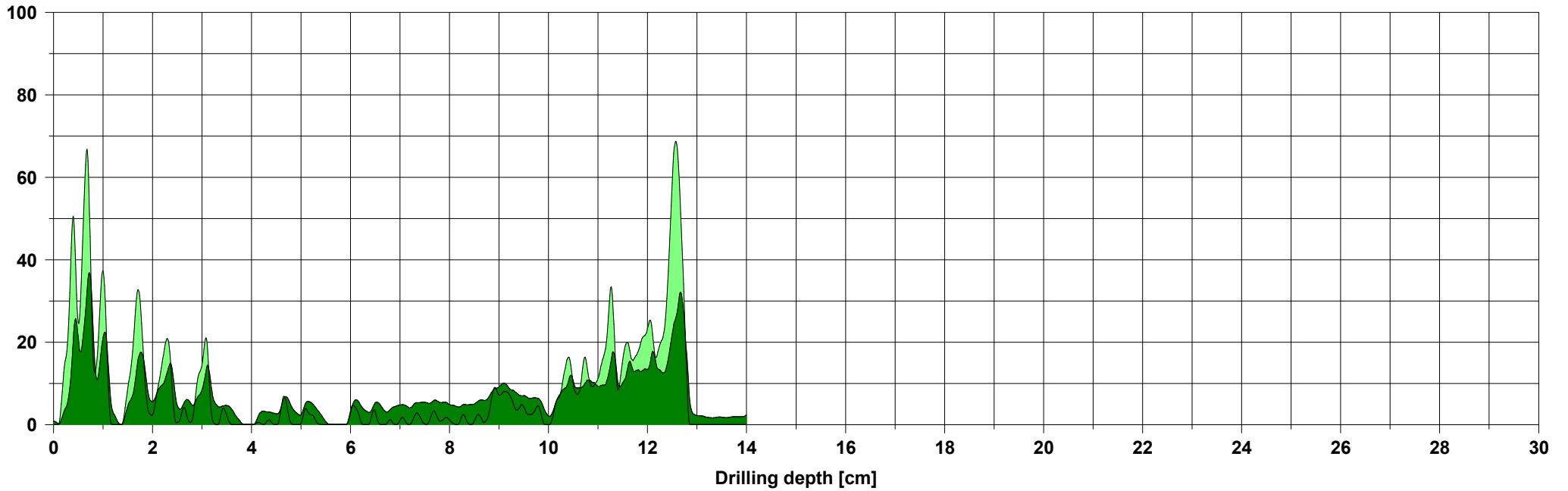
### Assessment

### Comment

### Measuring / object data

Measurement no.:	35	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.7.2A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +7°	Direction:	
Date	: 03.04.2025	Offset	: 93 / 249	Species	:
Time	: 11:36:15	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



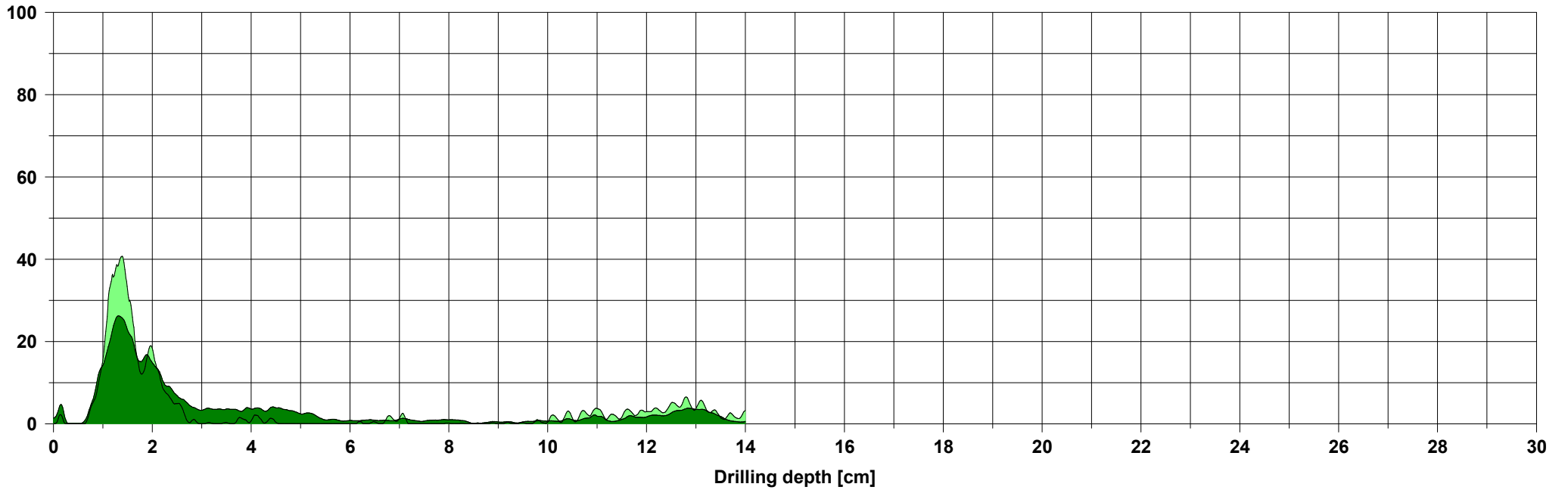
### Assessment

### Comment

### Measuring / object data

Measurement no.:	36	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.7.3A0	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +46°	Direction:	
Date	: 03.04.2025	Offset	: 102 / 262	Species	:
Time	: 11:34:19	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



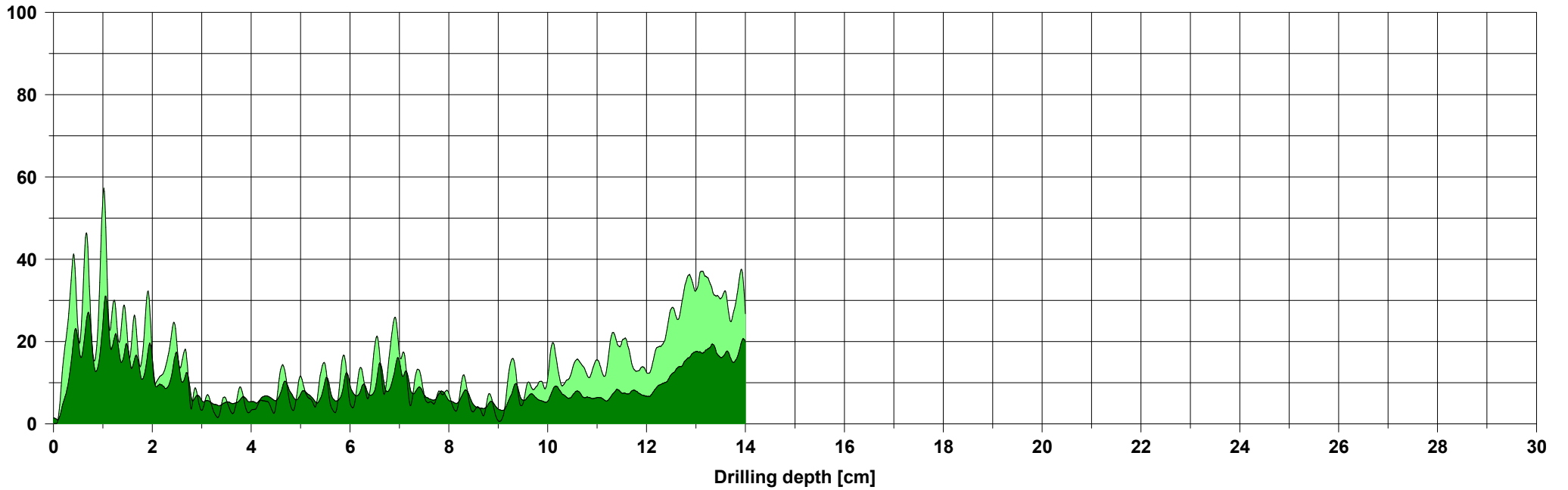
### Assessment

### Comment

### Measuring / object data

Measurement no.:	37	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.7.3A5	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 108 / 259	Species	:
Time	: 11:35:07	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



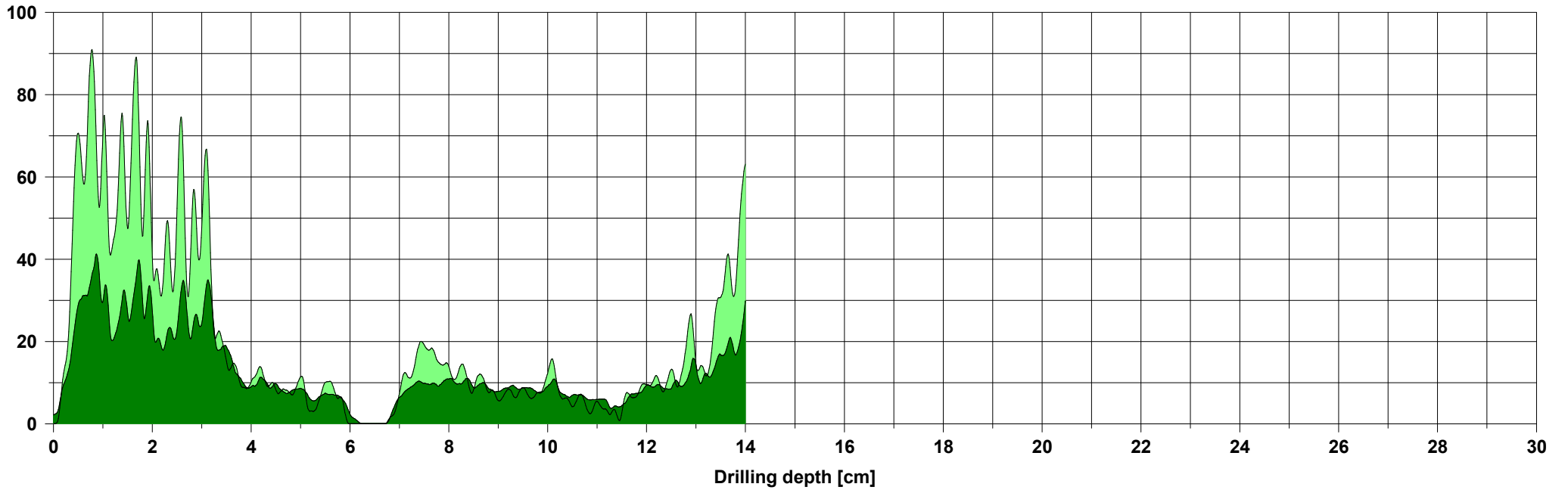
### Assessment

### Comment

### Measuring / object data

Measurement no.:	38	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.7.5A	Needle state:	---	Level	:
Drilling depth	: 14,00 cm	Tilt	: +5°	Direction:	
Date	: 03.04.2025	Offset	: 90 / 278	Species	:
Time	: 11:37:50	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



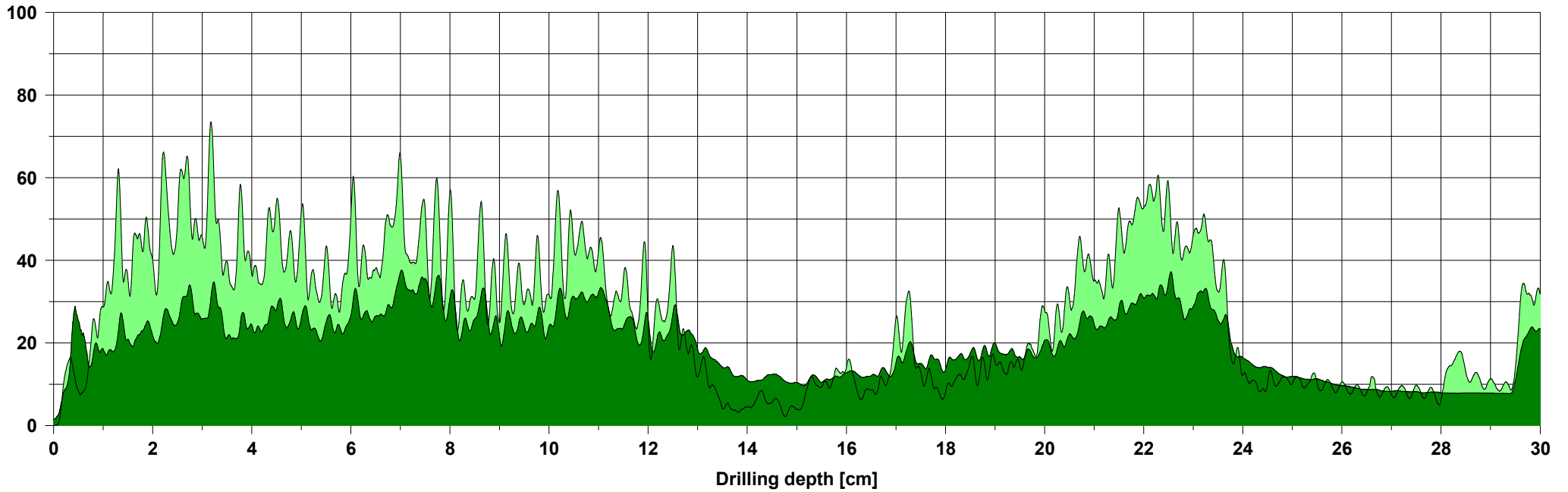
### Assessment

### Comment

### Measuring / object data

Measurement no.:	39	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.7.5A3	Needle state:	---	Level	:
Drilling depth	: 30,00 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 112 / 258	Species	:
Time	: 11:40:09	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



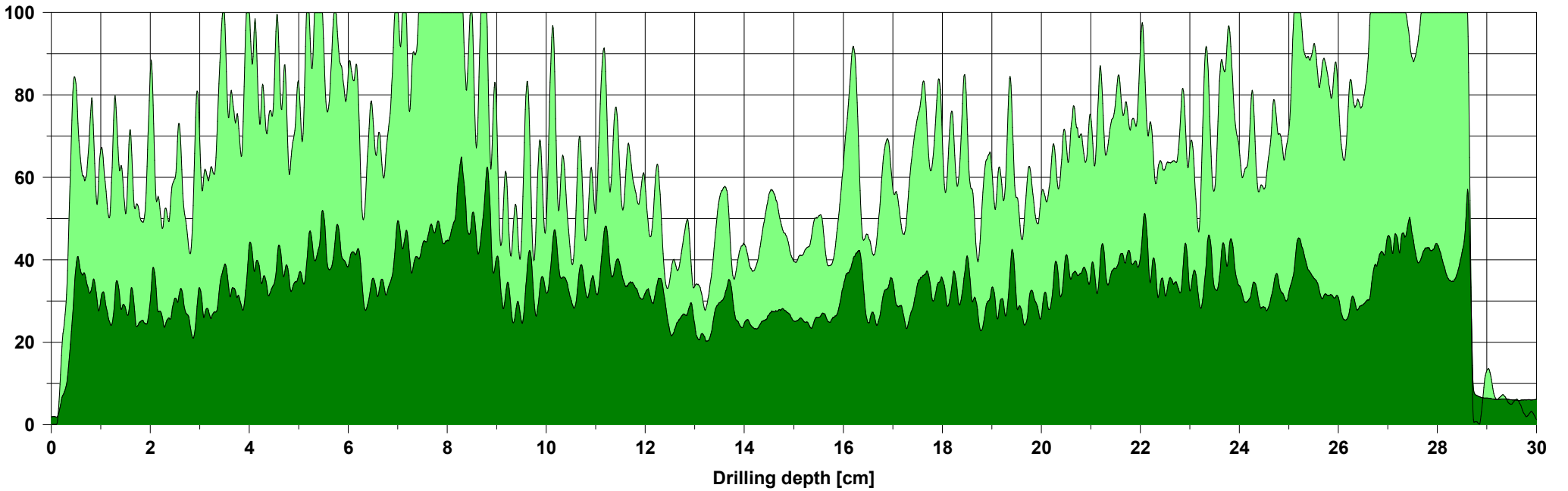
### Assessment

### Comment

### Measuring / object data

Measurement no.:	40	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.7.5A5	Needle state:	---	Level	:
Drilling depth	: 30,00 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 107 / 251	Species	:
Time	: 11:41:21	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



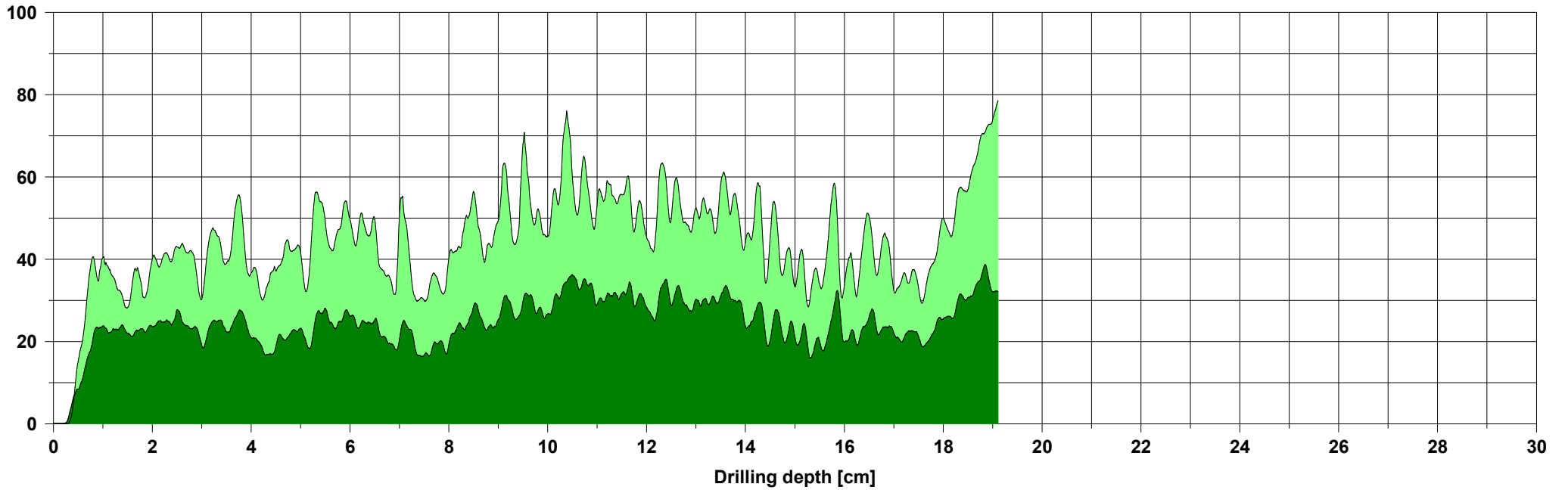
### Assessment

### Comment

### Measuring / object data

Measurement no.:	41	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.7.6A	Needle state:	---	Level	:
Drilling depth	: 19,11 cm	Tilt	: +47°	Direction:	
Date	: 03.04.2025	Offset	: 114 / 254	Species	:
Time	: 09:23:43	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



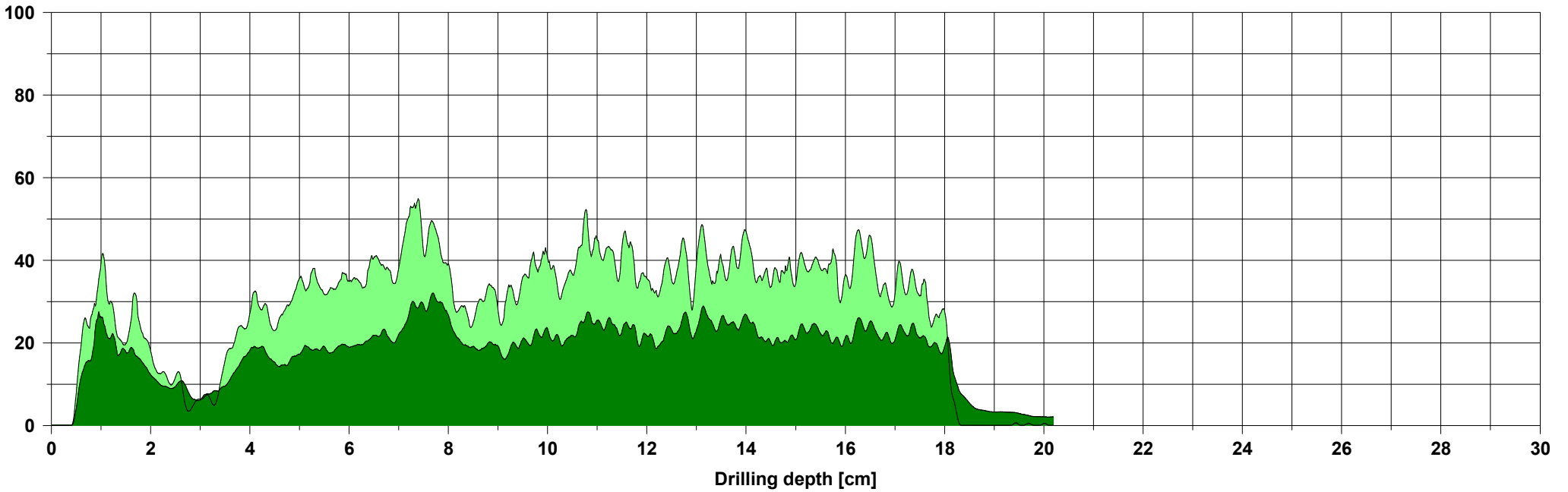
### Assessment

### Comment

### Measuring / object data

Measurement no.:	42	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.8.1A	Needle state:	---	Level	:
Drilling depth	: 20,19 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 109 / 249	Species	:
Time	: 10:37:02	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



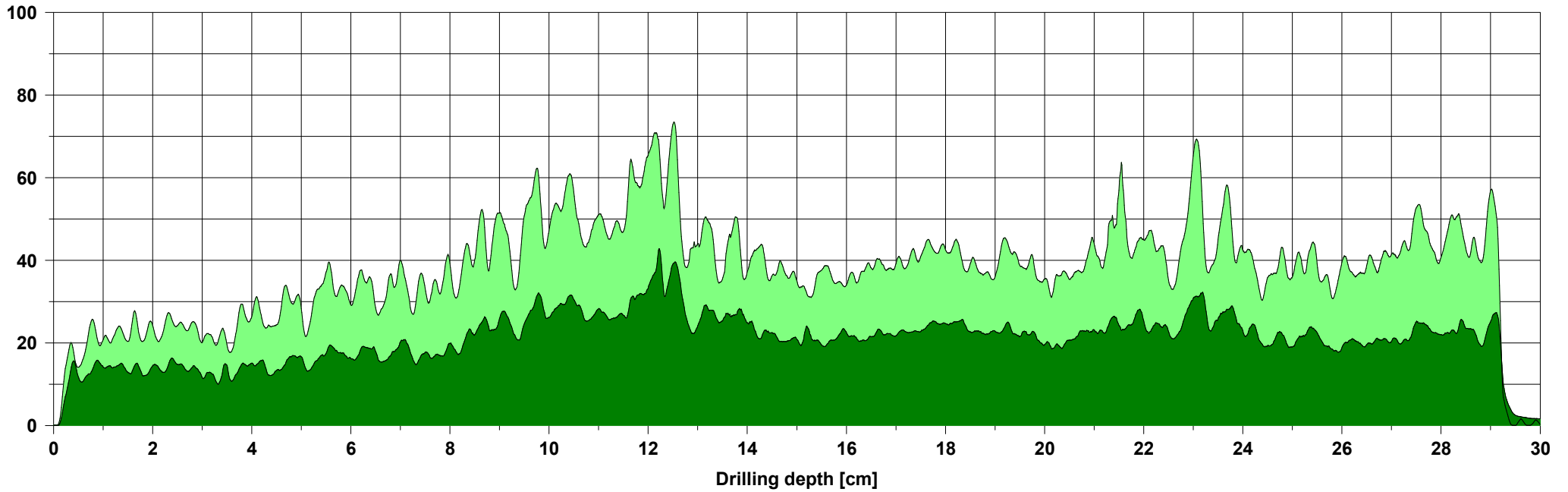
### Assessment

### Comment

### Measuring / object data

Measurement no.:	43	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.8.1A2	Needle state:	---	Level	:
Drilling depth	: 30,00 cm	Tilt	: +78°	Direction:	
Date	: 03.04.2025	Offset	: 110 / 248	Species	:
Time	: 10:37:40	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



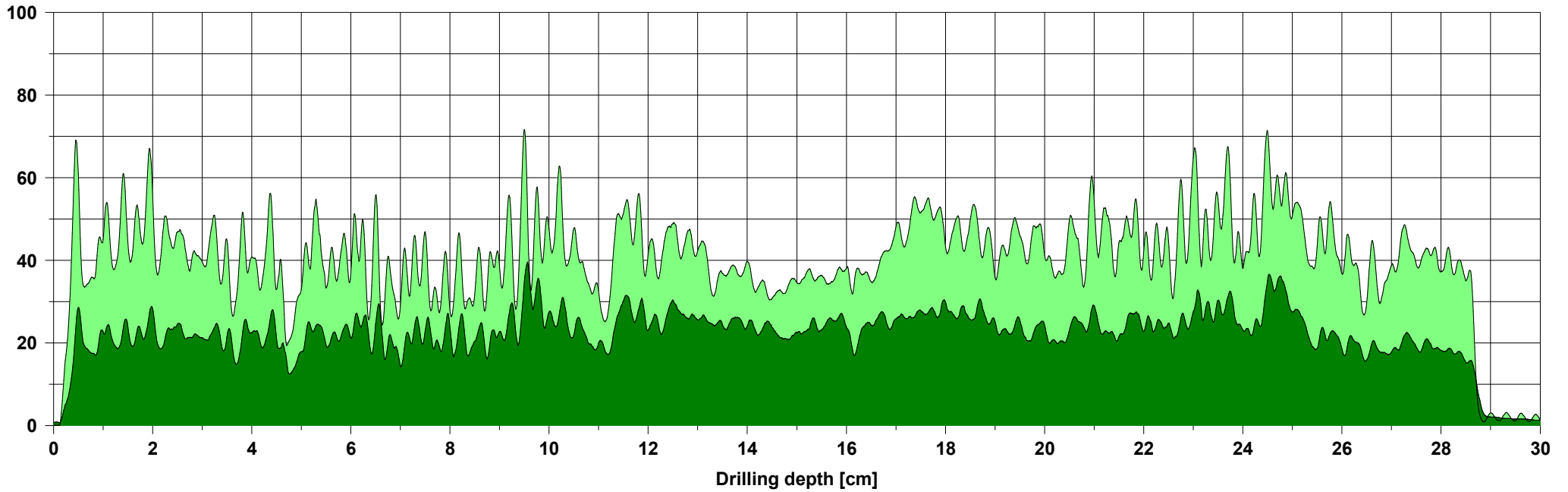
Assessment

Comment

### Measuring / object data

Measurement no.:	44	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.8.2APROP	Needle state:	---	Level	:
Drilling depth	: 30,00 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 109 / 246	Species	:
Time	: 11:46:11	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



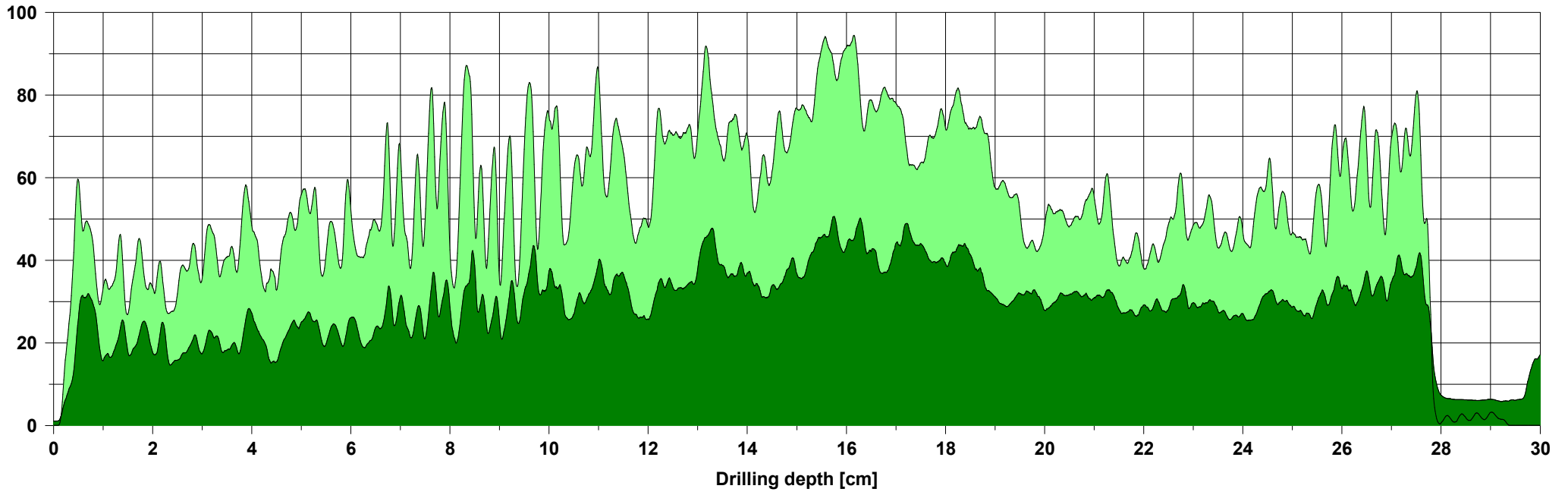
### Assessment

### Comment

### Measuring / object data

Measurement no.:	45	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.8.5APROP	Needle state:	---	Level	:
Drilling depth	: 30,00 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 107 / 252	Species	:
Time	: 11:44:23	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



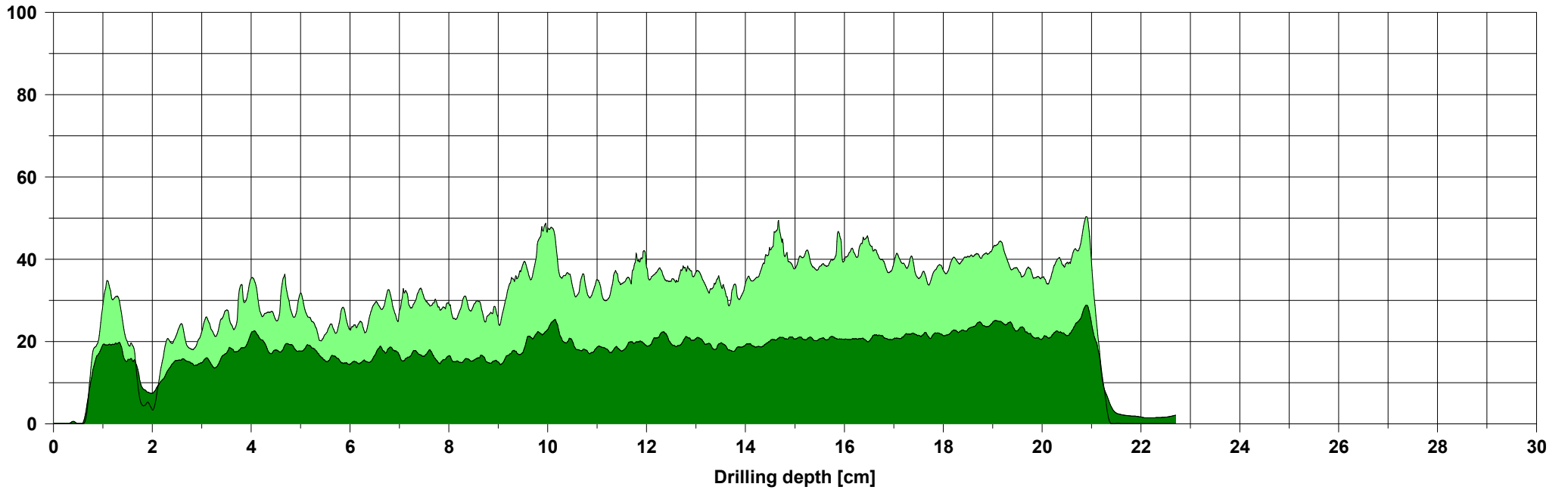
### Assessment

### Comment

### Measuring / object data

Measurement no.:	46	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.8.6A	Needle state:	---	Level	:
Drilling depth	: 22,70 cm	Tilt	: +52°	Direction:	
Date	: 03.04.2025	Offset	: 114 / 257	Species	:
Time	: 09:25:25	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



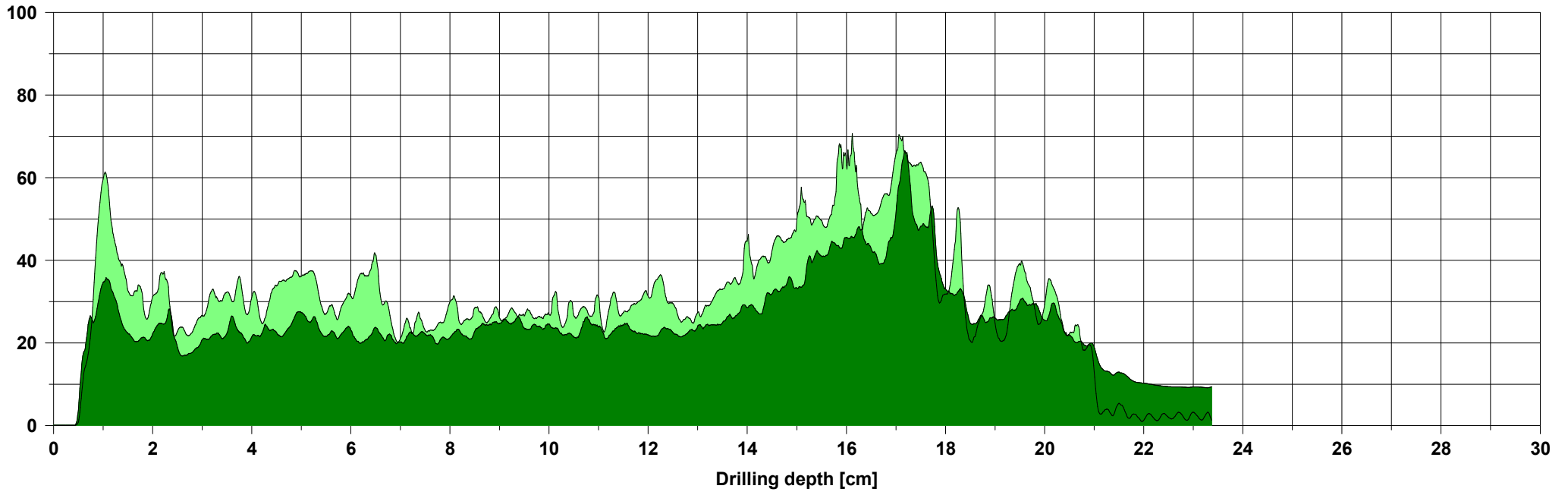
Assessment

Comment

### Measuring / object data

Measurement no.:	47	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.9.1A	Needle state:	---	Level	:
Drilling depth	: 23,37 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 109 / 252	Species	:
Time	: 10:34:20	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



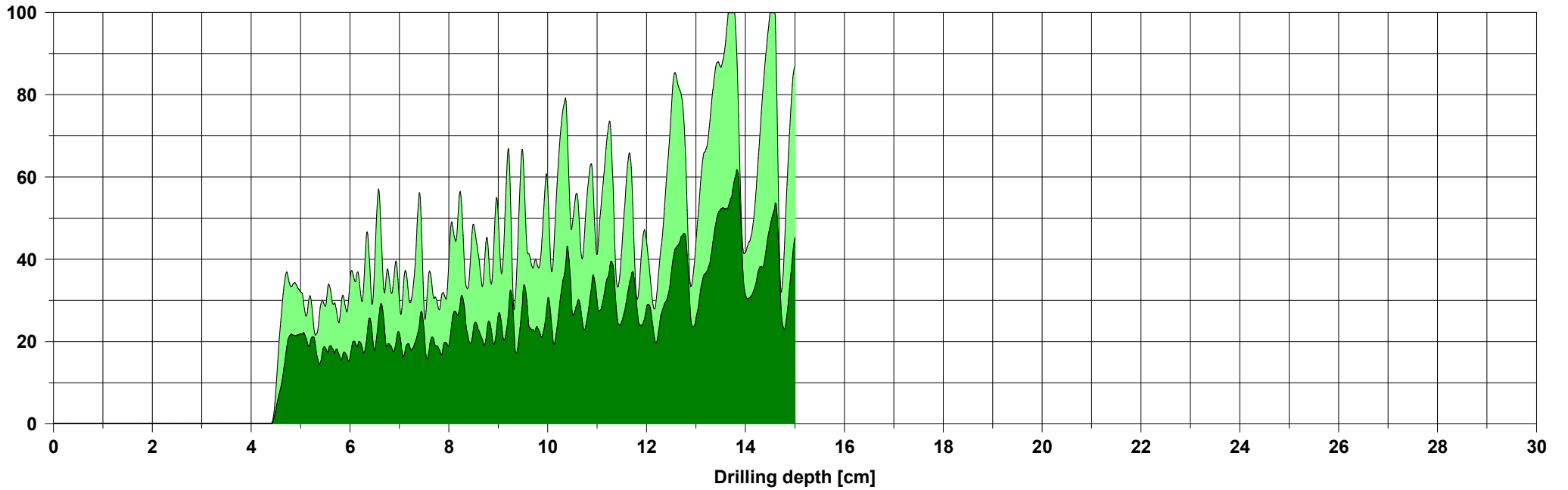
Assessment

Comment

### Measuring / object data

Measurement no.:	48	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.9.2A	Needle state:	---	Level	:
Drilling depth	: 15,00 cm	Tilt	: +8°	Direction:	
Date	: 03.04.2025	Offset	: 97 / 248	Species	:
Time	: 11:51:21	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



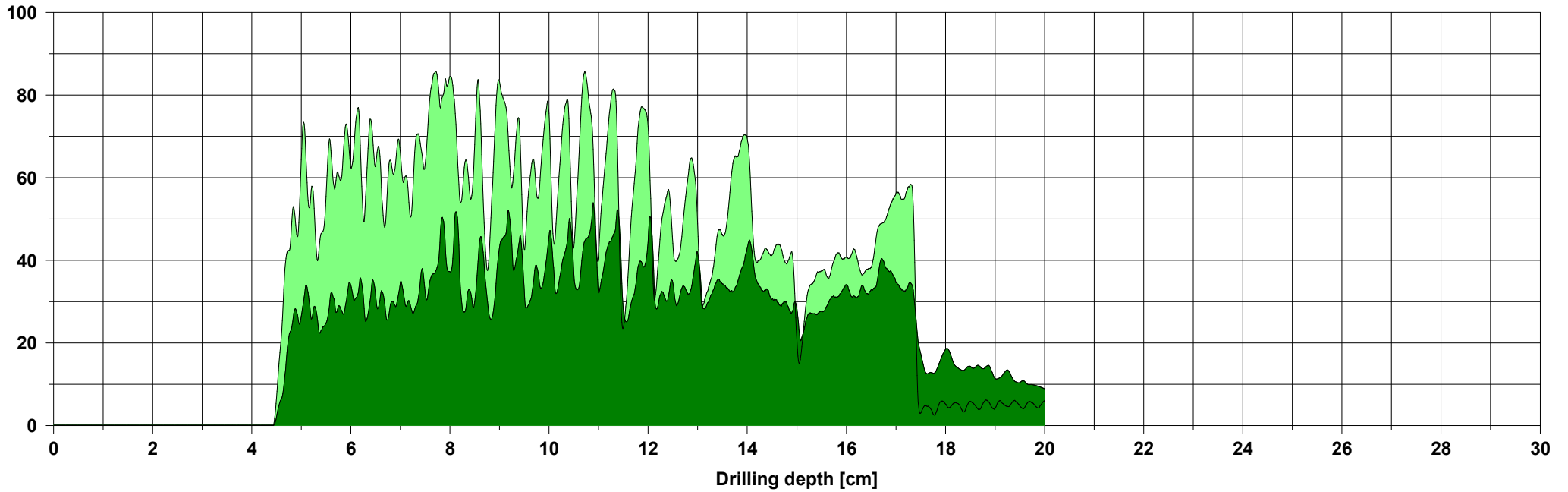
### Assessment

### Comment

### Measuring / object data

Measurement no.:	49	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.9.5A	Needle state:	---	Level	:
Drilling depth	: 20,00 cm	Tilt	: +5°	Direction:	
Date	: 03.04.2025	Offset	: 95 / 250	Species	:
Time	: 11:52:19	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



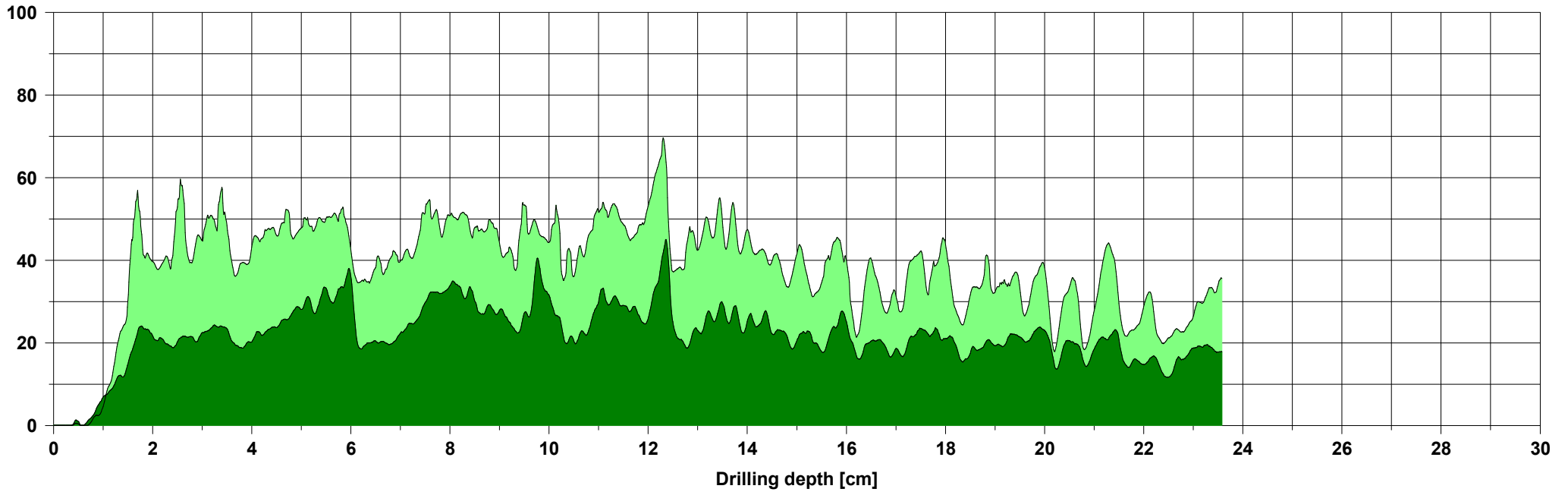
Assessment

Comment

### Measuring / object data

Measurement no.:	50	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.9.6A	Needle state:	---	Level	:
Drilling depth	: 23,58 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 109 / 257	Species	:
Time	: 09:27:46	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



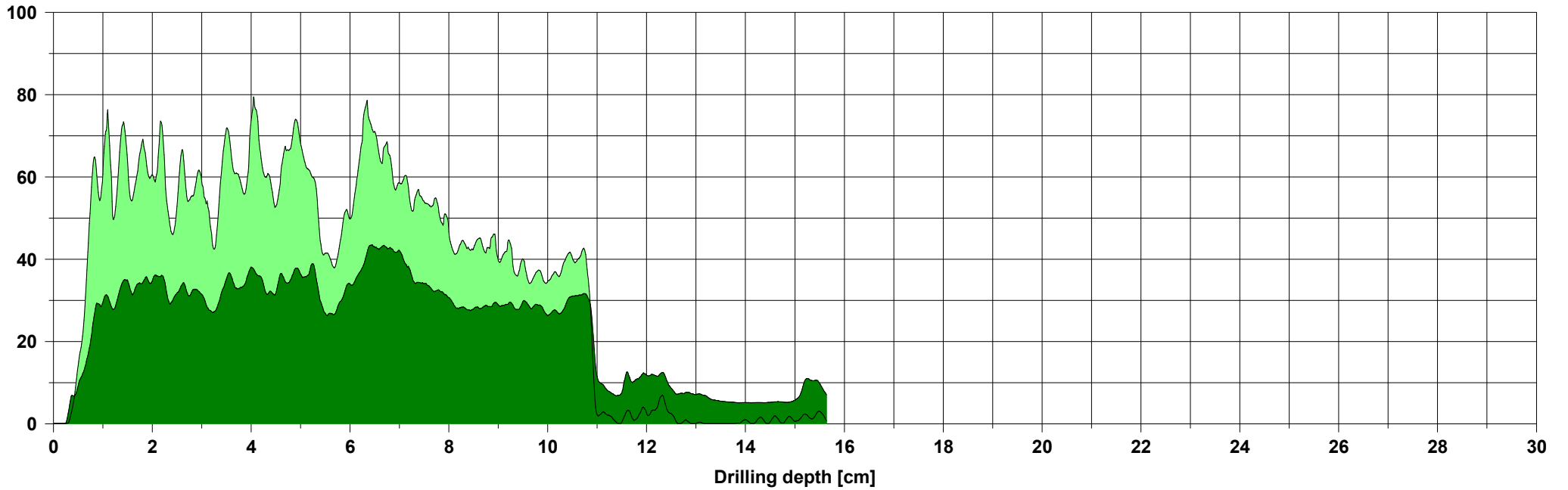
### Assessment

### Comment

### Measuring / object data

Measurement no.:	51	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.10.1A	Needle state:	---	Level	:
Drilling depth	: 15,64 cm	Tilt	: +49°	Direction:	
Date	: 03.04.2025	Offset	: 107 / 251	Species	:
Time	: 10:32:11	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



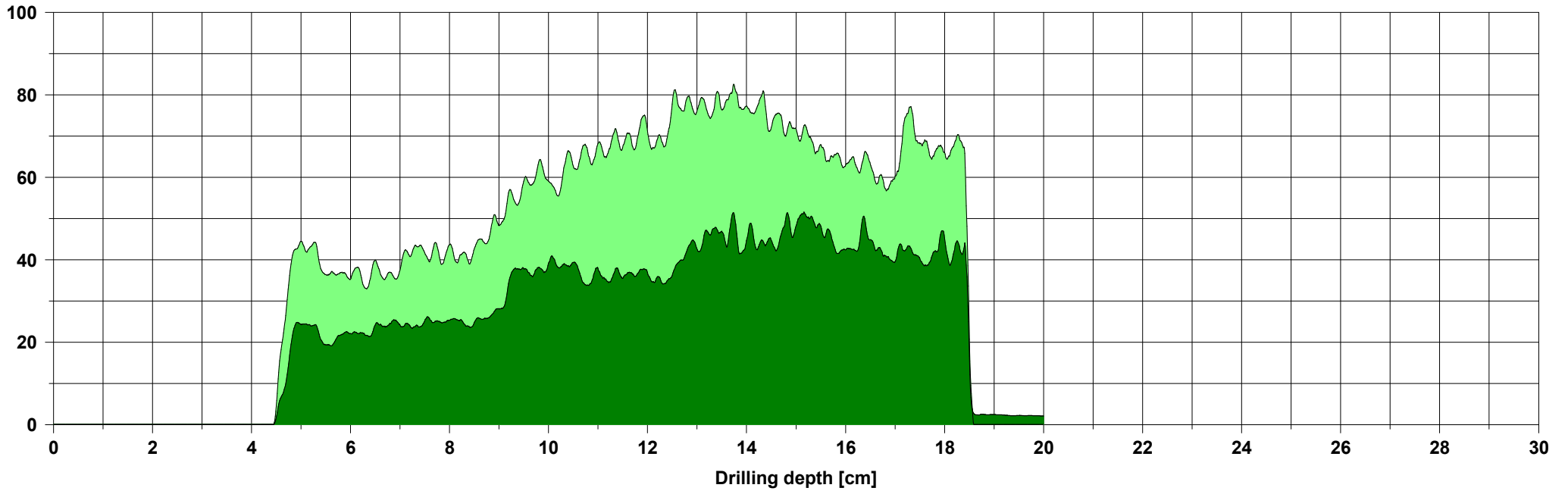
### Assessment

### Comment

### Measuring / object data

Measurement no.:	52	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.10.2A	Needle state:	---	Level	:
Drilling depth	: 20,00 cm	Tilt	: +8°	Direction:	
Date	: 03.04.2025	Offset	: 110 / 247	Species	:
Time	: 13:06:35	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



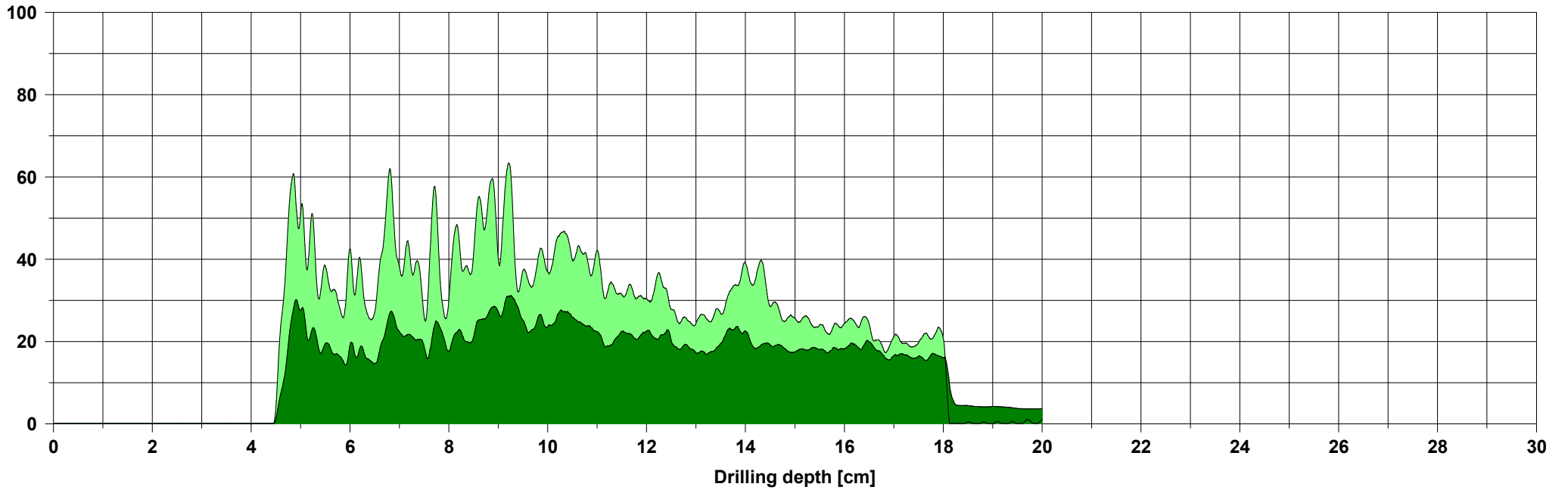
### Assessment

### Comment

### Measuring / object data

Measurement no.:	53	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.10.5A	Needle state:	---	Level	:
Drilling depth	: 20,00 cm	Tilt	: -2°	Direction:	
Date	: 03.04.2025	Offset	: 106 / 257	Species	:
Time	: 13:07:56	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



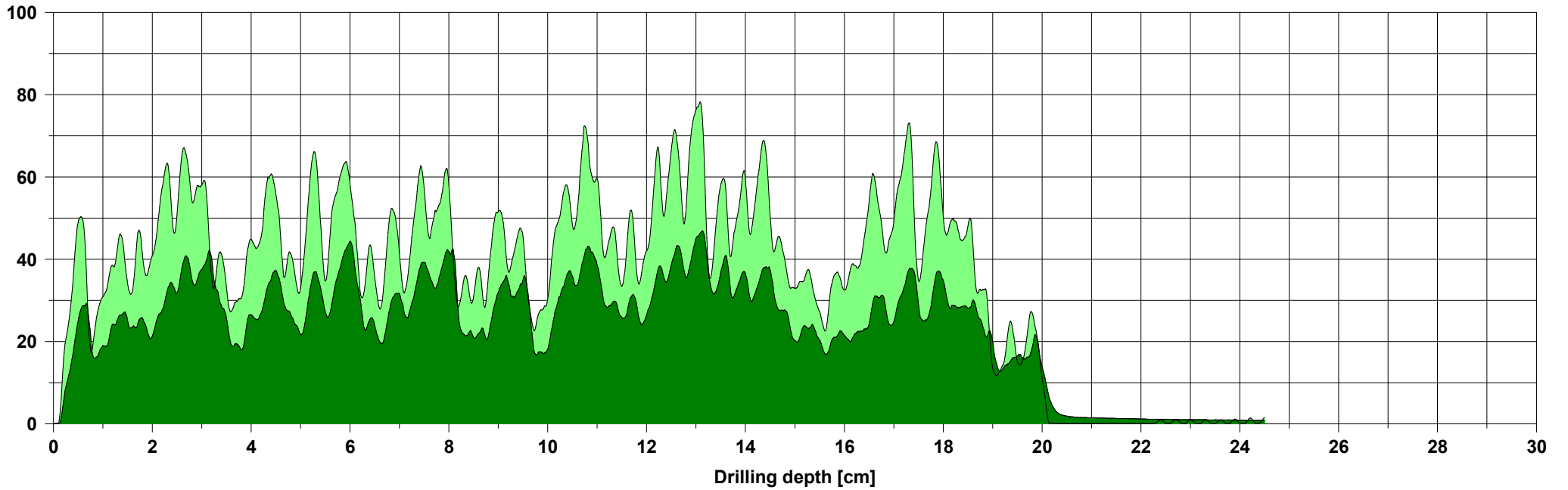
### Assessment

### Comment

### Measuring / object data

Measurement no.:	54	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.10.6A2	Needle state:	---	Level	:
Drilling depth	: 24,50 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 119 / 254	Species	:
Time	: 09:30:25	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



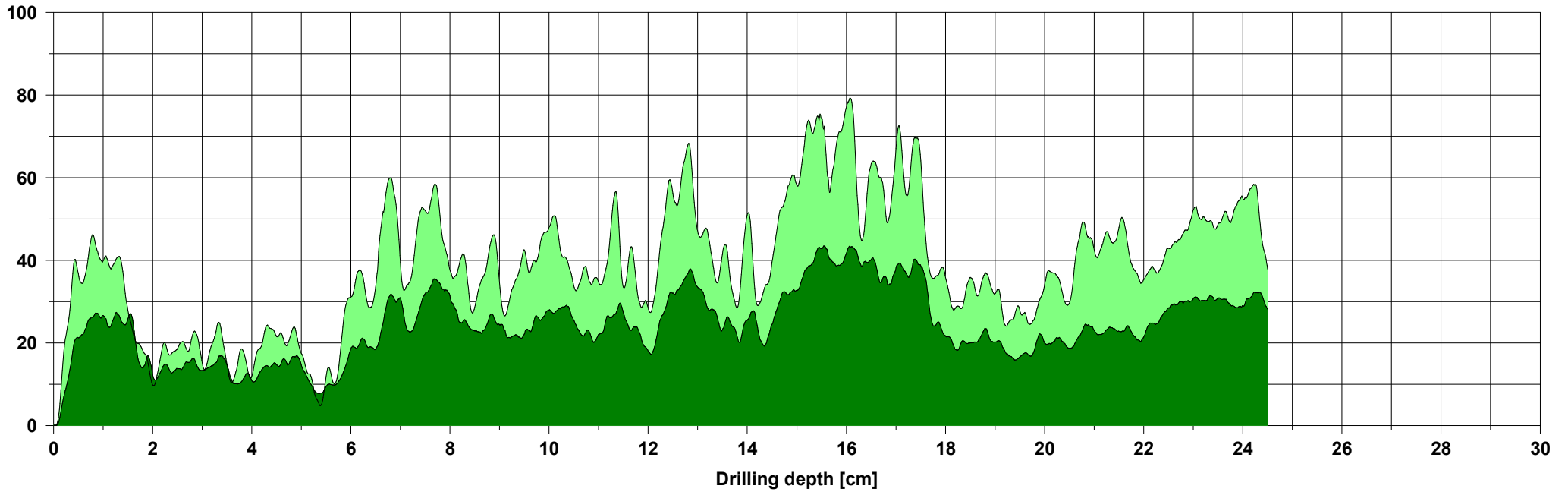
### Assessment

### Comment

### Measuring / object data

Measurement no.:	55	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.10.6A4	Needle state:	---	Level	:
Drilling depth	: 24,50 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 115 / 253	Species	:
Time	: 09:31:24	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



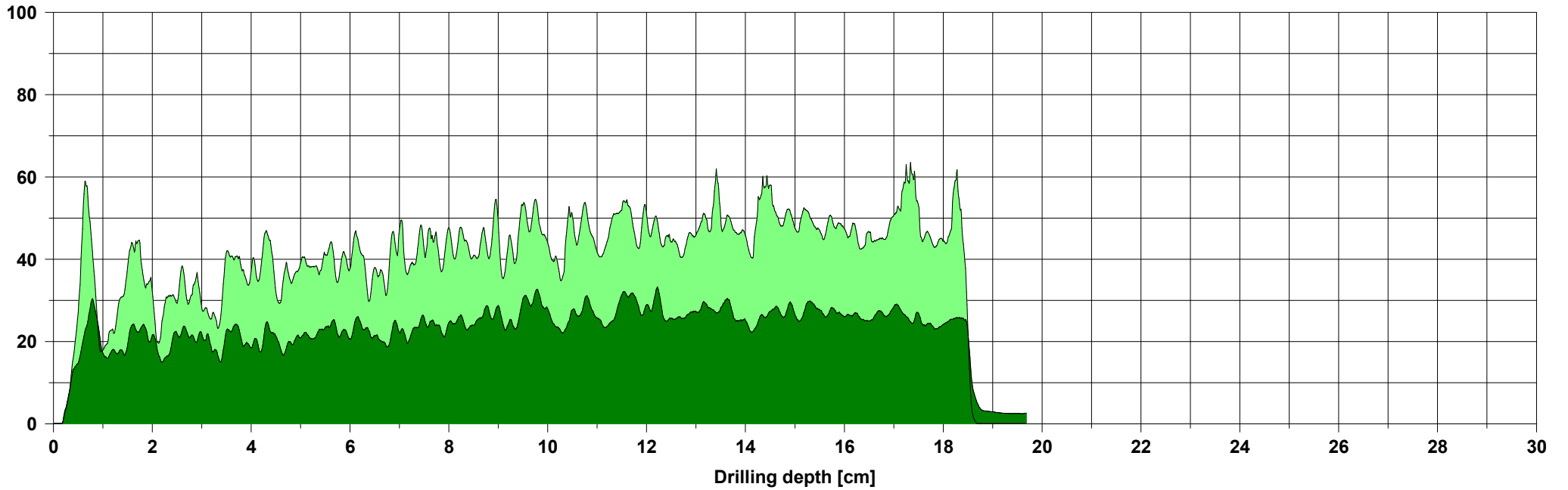
### Assessment

### Comment

### Measuring / object data

Measurement no.:	56	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.11.1A	Needle state:	---	Level	:
Drilling depth	: 19,68 cm	Tilt	: +48°	Direction:	
Date	: 03.04.2025	Offset	: 106 / 250	Species	:
Time	: 10:29:56	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



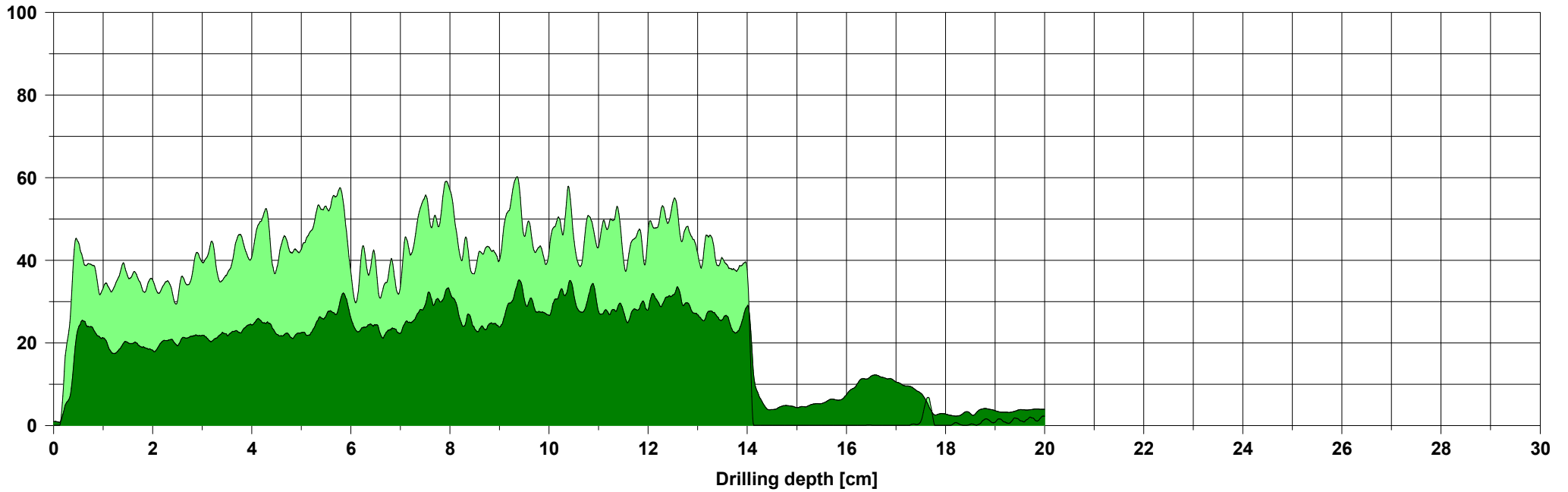
### Assessment

### Comment

### Measuring / object data

Measurement no.:	57	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.11.2A	Needle state:	---	Level	:
Drilling depth	: 20,00 cm	Tilt	: +2°	Direction:	
Date	: 03.04.2025	Offset	: 100 / 251	Species	:
Time	: 13:12:52	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



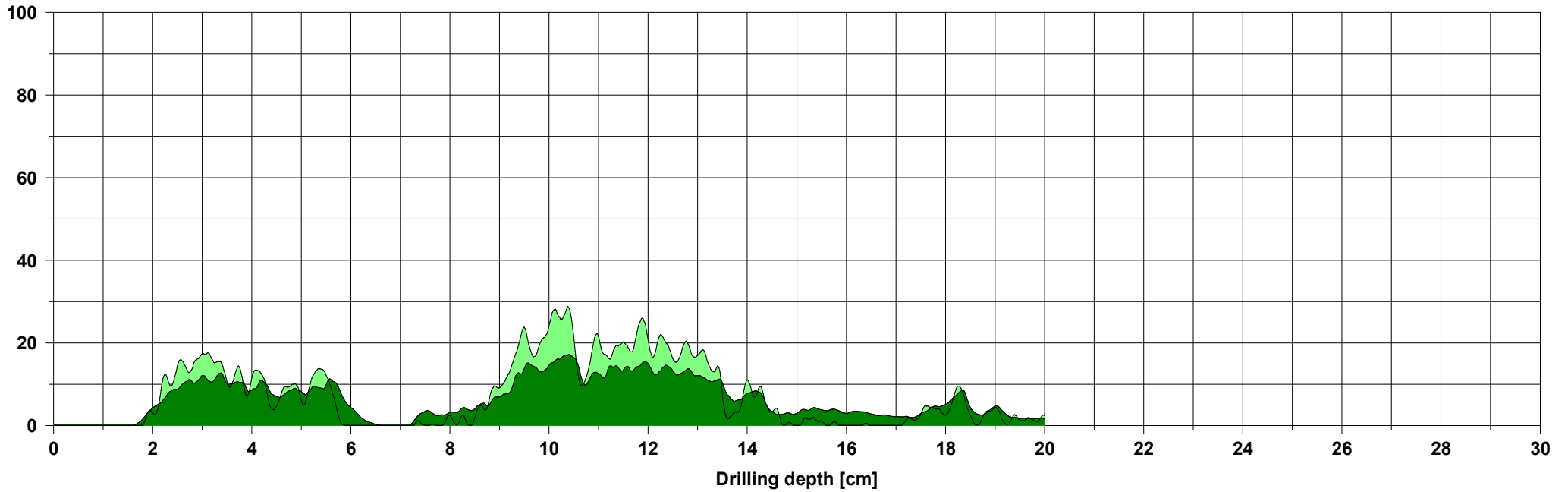
### Assessment

### Comment

### Measuring / object data

Measurement no.:	58	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.11.3A	Needle state:	---	Level	:
Drilling depth	: 20,00 cm	Tilt	: +43°	Direction:	
Date	: 03.04.2025	Offset	: 117 / 246	Species	:
Time	: 13:11:03	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

Amplitude [%]



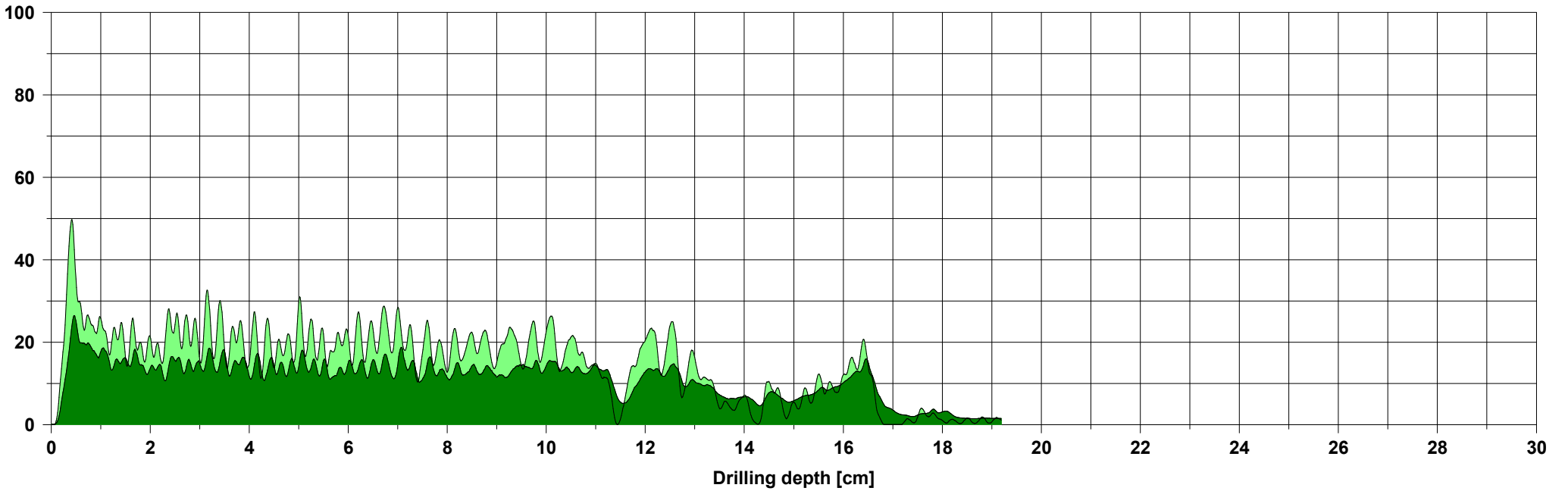
Assessment

Comment

### Measuring / object data

Measurement no.:	59	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.11.3A4	Needle state:	---	Level	:
Drilling depth	: 19,19 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 123 / 246	Species	:
Time	: 13:11:59	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



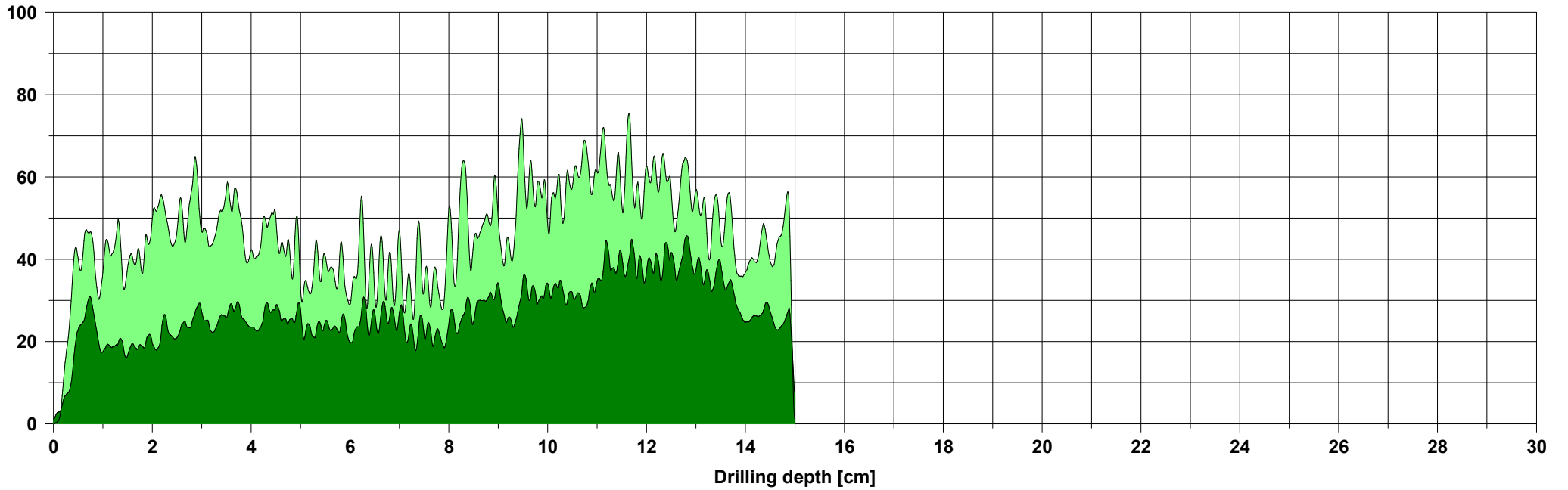
Assessment

Comment

### Measuring / object data

Measurement no.:	60	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.11.5A	Needle state:	---	Level	:
Drilling depth	: 15,00 cm	Tilt	: +1°	Direction:	
Date	: 03.04.2025	Offset	: 98 / 264	Species	:
Time	: 13:13:54	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



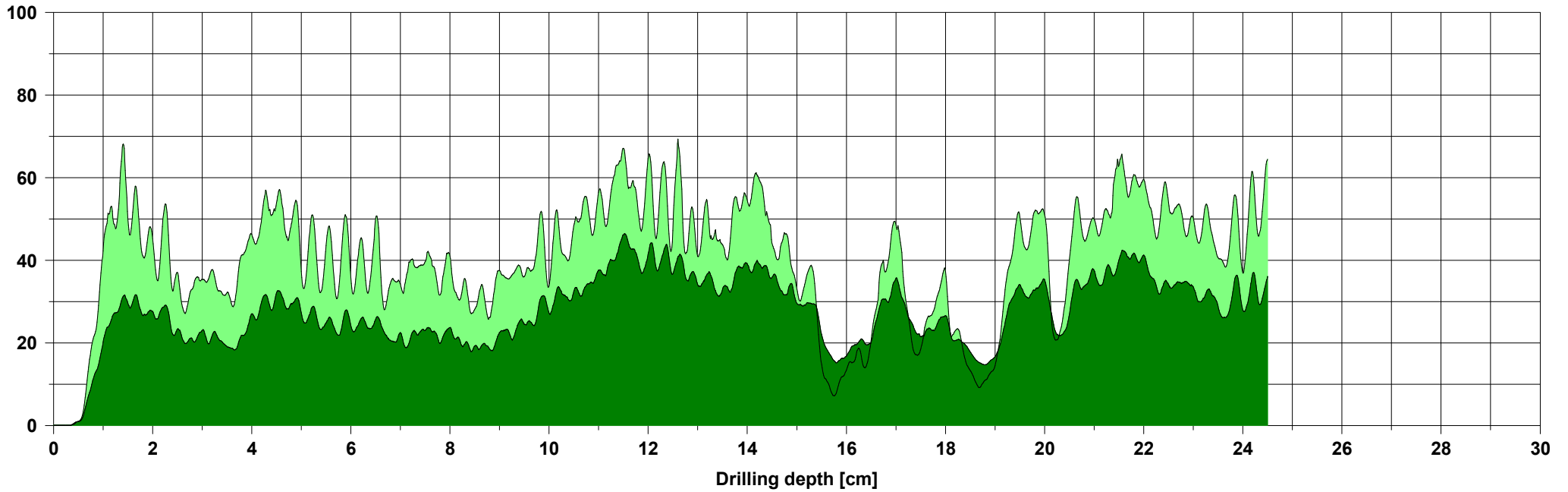
### Assessment

### Comment

### Measuring / object data

Measurement no.:	61	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.11.6A	Needle state:	---	Level	:
Drilling depth	: 24,50 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 109 / 253	Species	:
Time	: 09:37:08	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



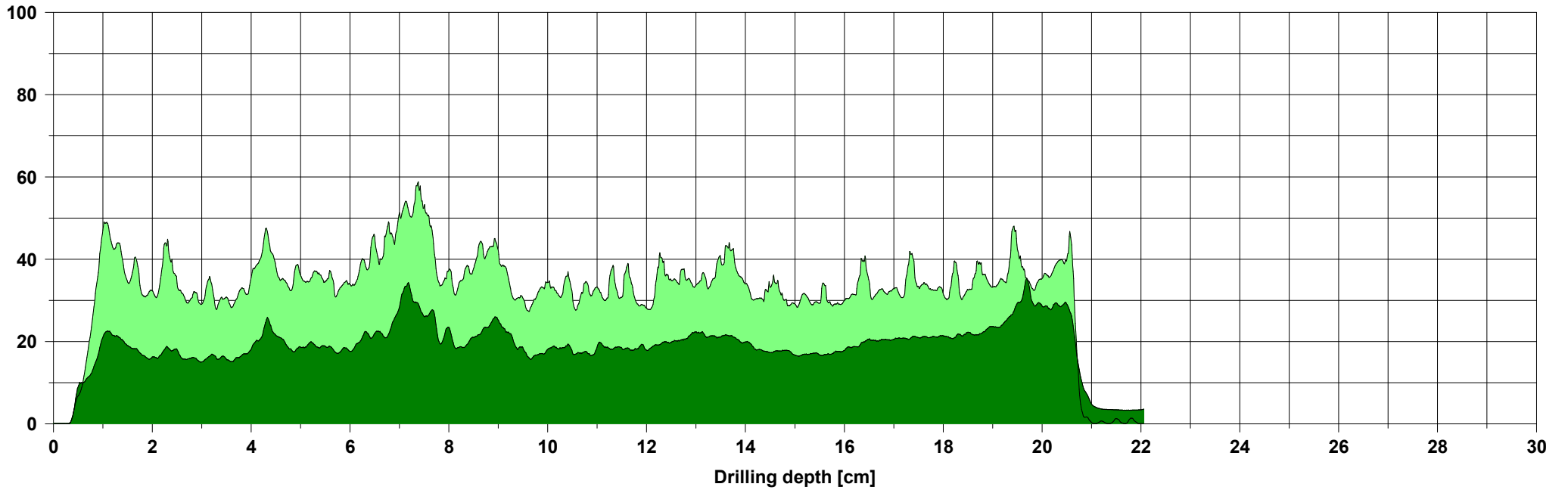
### Assessment

### Comment

### Measuring / object data

Measurement no.:	62	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.12.1A	Needle state:	---	Level	:
Drilling depth	: 22,06 cm	Tilt	: +43°	Direction:	
Date	: 03.04.2025	Offset	: 113 / 250	Species	:
Time	: 10:26:51	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

Amplitude [%]



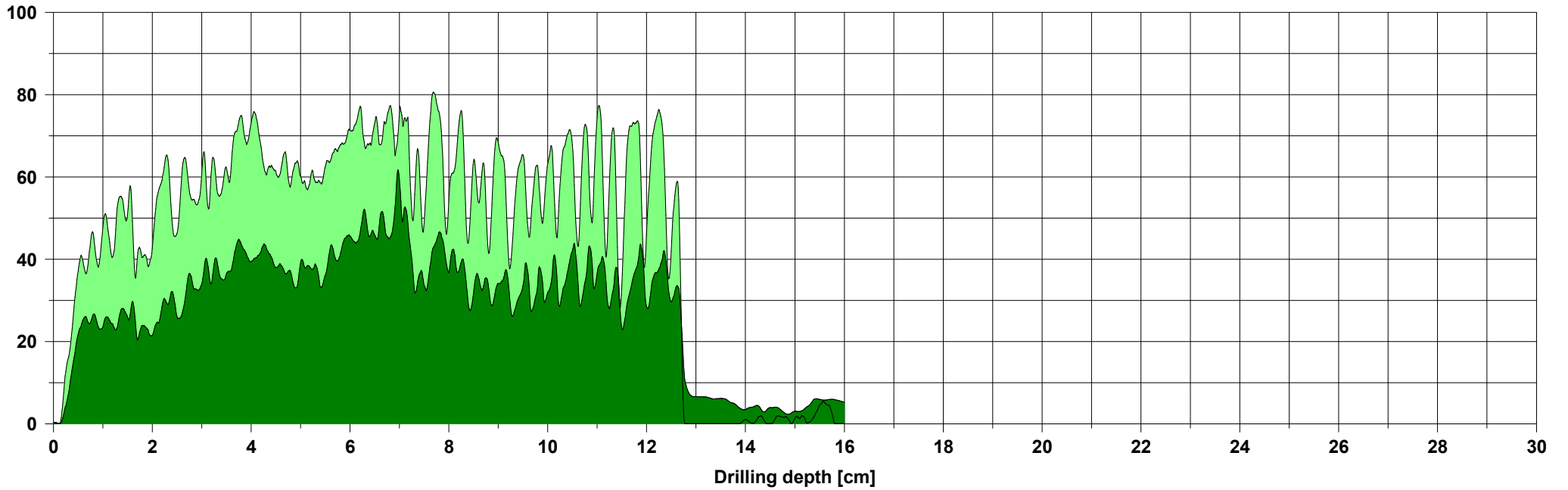
Assessment

Comment

### Measuring / object data

Measurement no.:	63	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.12.2A	Needle state:	---	Level	:
Drilling depth	: 16,00 cm	Tilt	: +2°	Direction:	
Date	: 03.04.2025	Offset	: 97 / 256	Species	:
Time	: 13:15:50	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



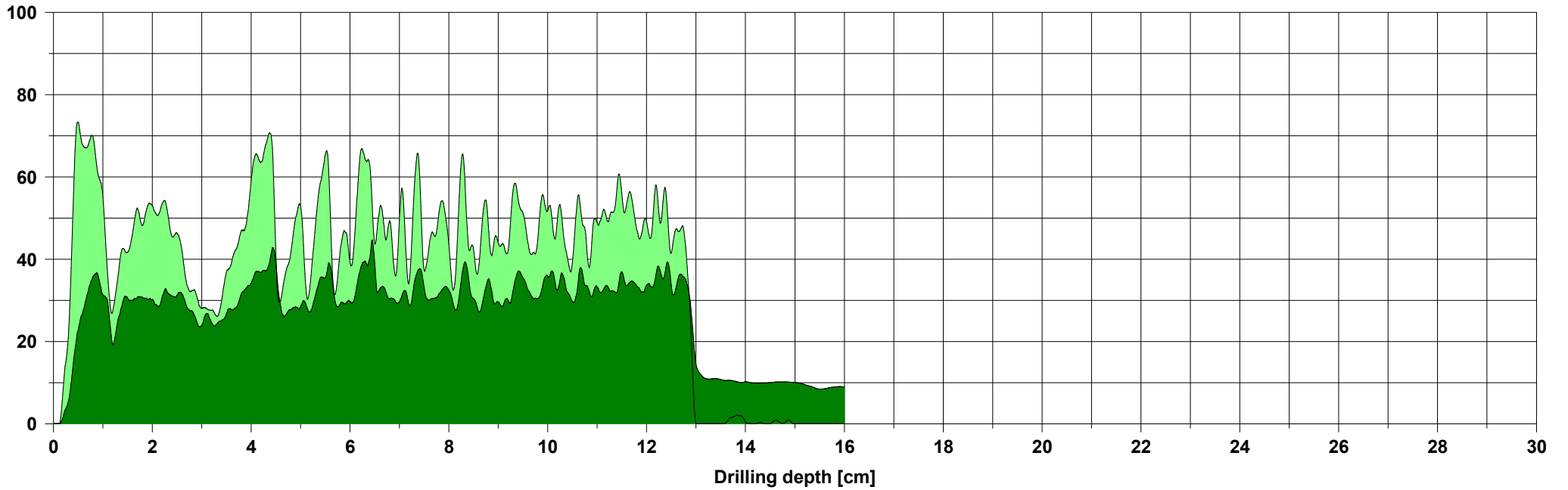
### Assessment

### Comment

### Measuring / object data

Measurement no.:	64	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.12.5A	Needle state:	---	Level	:
Drilling depth	: 16,00 cm	Tilt	: +2°	Direction:	
Date	: 03.04.2025	Offset	: 97 / 248	Species	:
Time	: 13:17:22	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



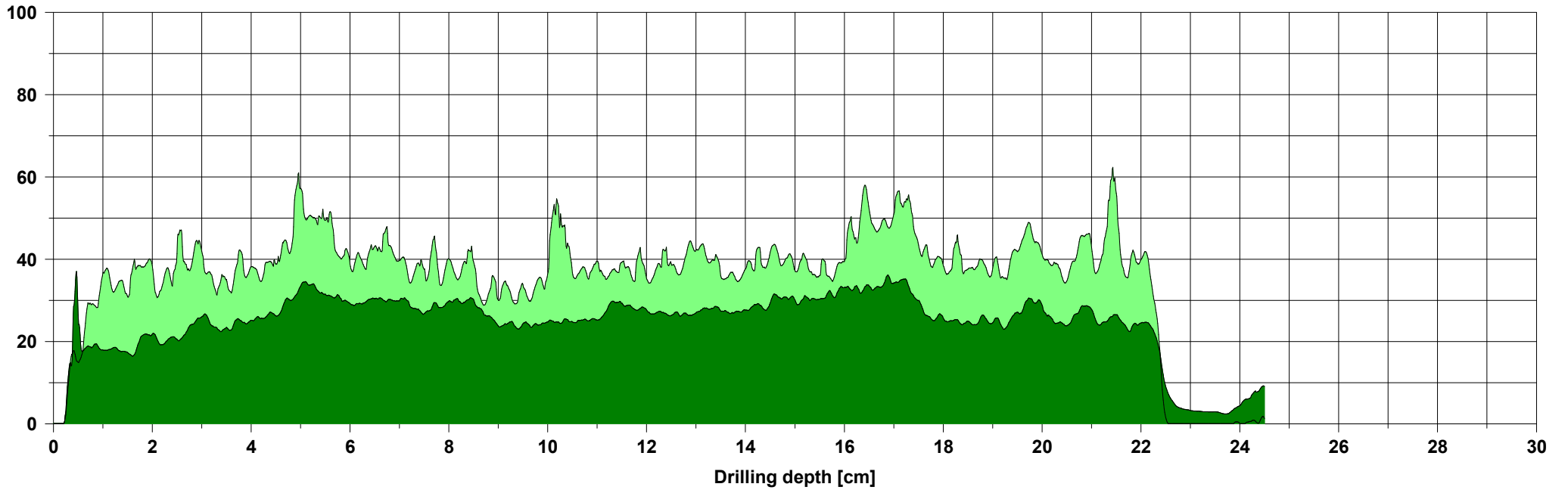
### Assessment

### Comment

### Measuring / object data

Measurement no.:	65	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.12.6A	Needle state:	---	Level	:
Drilling depth	: 24,50 cm	Tilt	: +46°	Direction:	
Date	: 03.04.2025	Offset	: 113 / 253	Species	:
Time	: 09:38:41	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

Amplitude [%]



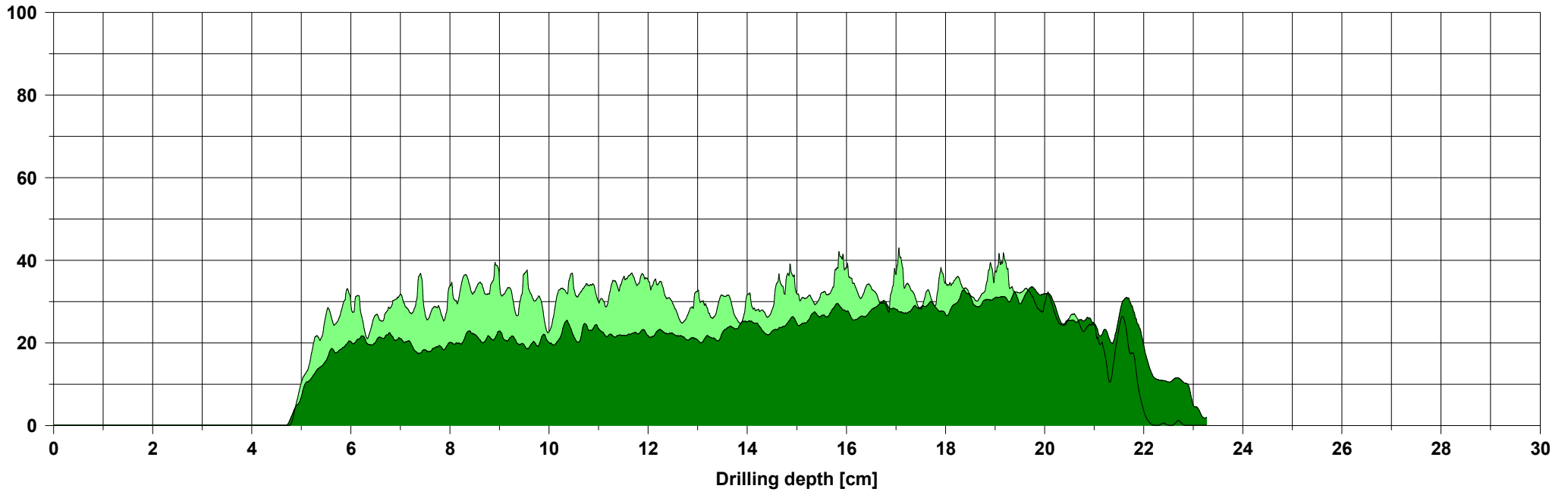
Assessment

Comment

### Measuring / object data

Measurement no.:	66	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.13.1A	Needle state:	---	Level	:
Drilling depth	: 23,27 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 116 / 249	Species	:
Time	: 10:23:41	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



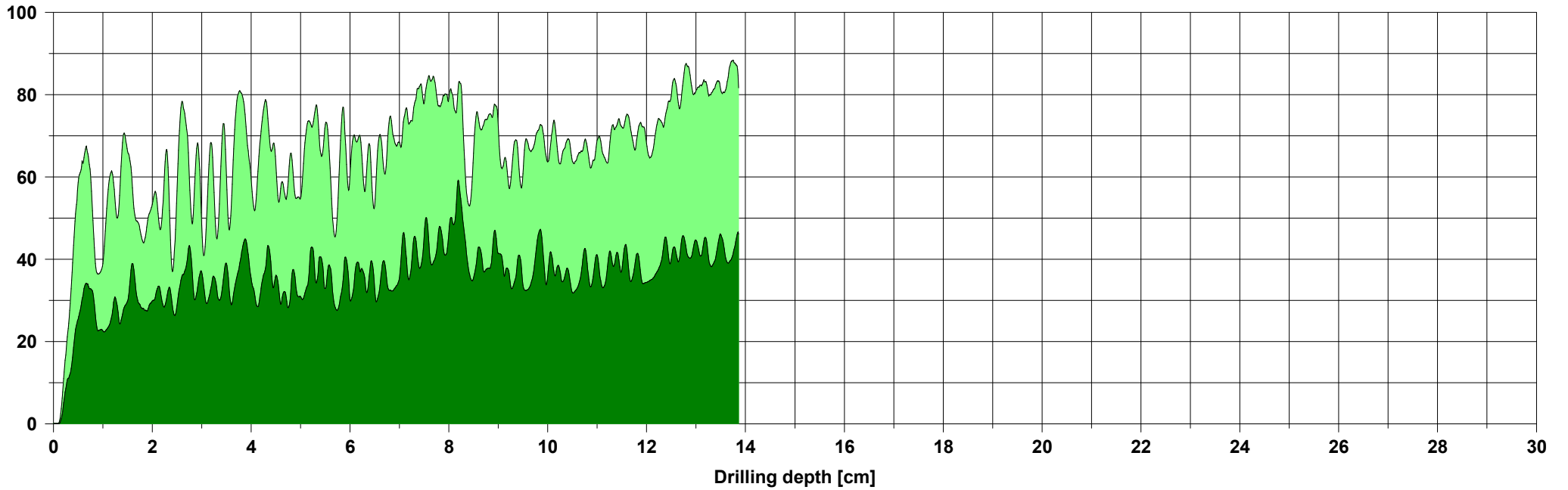
### Assessment

### Comment

### Measuring / object data

Measurement no.:	67	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.13.2A	Needle state:	---	Level	:
Drilling depth	: 13,86 cm	Tilt	: +3°	Direction:	
Date	: 03.04.2025	Offset	: 98 / 253	Species	:
Time	: 13:23:16	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



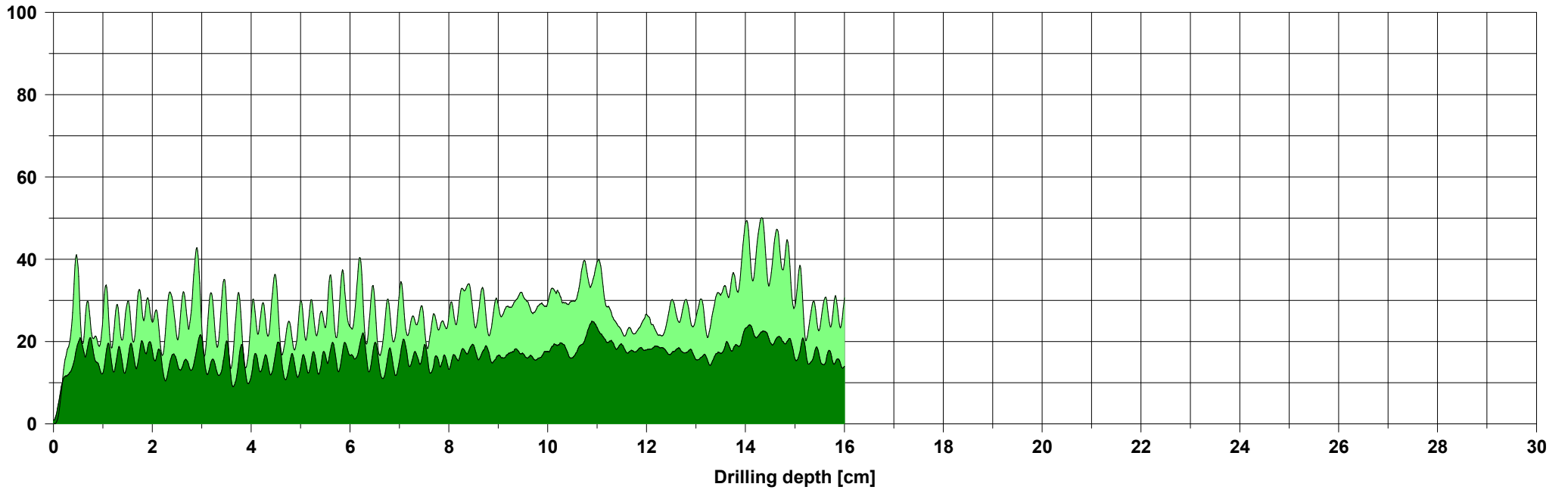
### Assessment

### Comment

### Measuring / object data

Measurement no.:	68	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.13.3A3	Needle state:	---	Level	:
Drilling depth	: 16,00 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 115 / 244	Species	:
Time	: 13:20:24	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



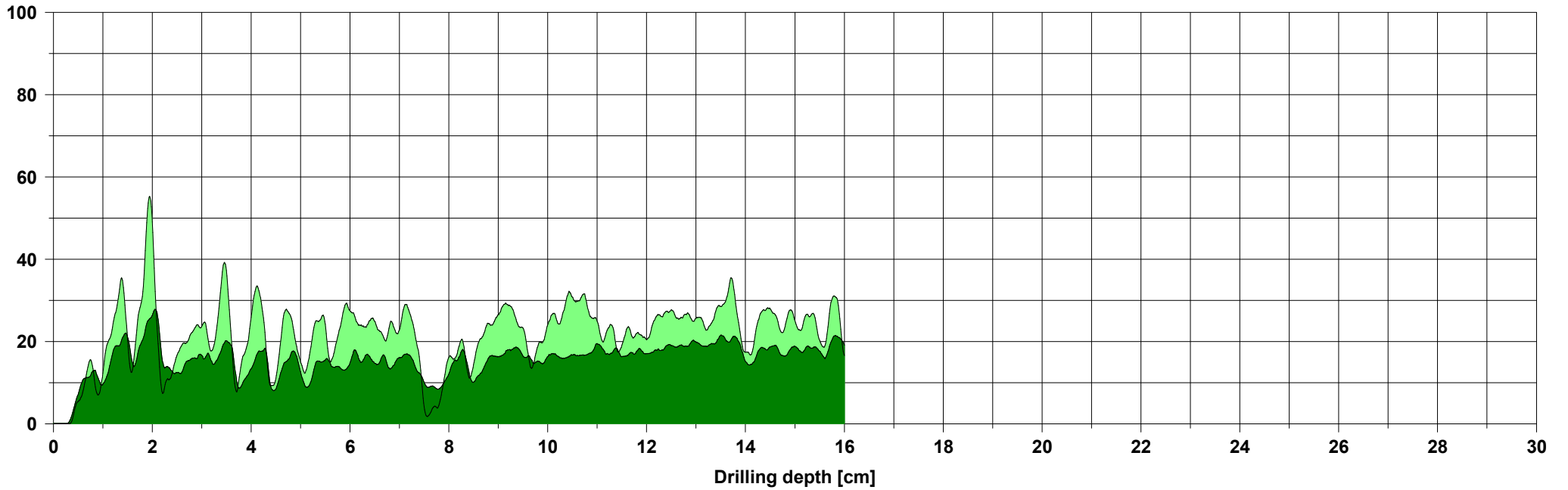
### Assessment

### Comment

### Measuring / object data

Measurement no.:	69	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.13.4A0	Needle state:	---	Level	:
Drilling depth	: 16,00 cm	Tilt	: +42°	Direction:	
Date	: 03.04.2025	Offset	: 111 / 247	Species	:
Time	: 13:22:11	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



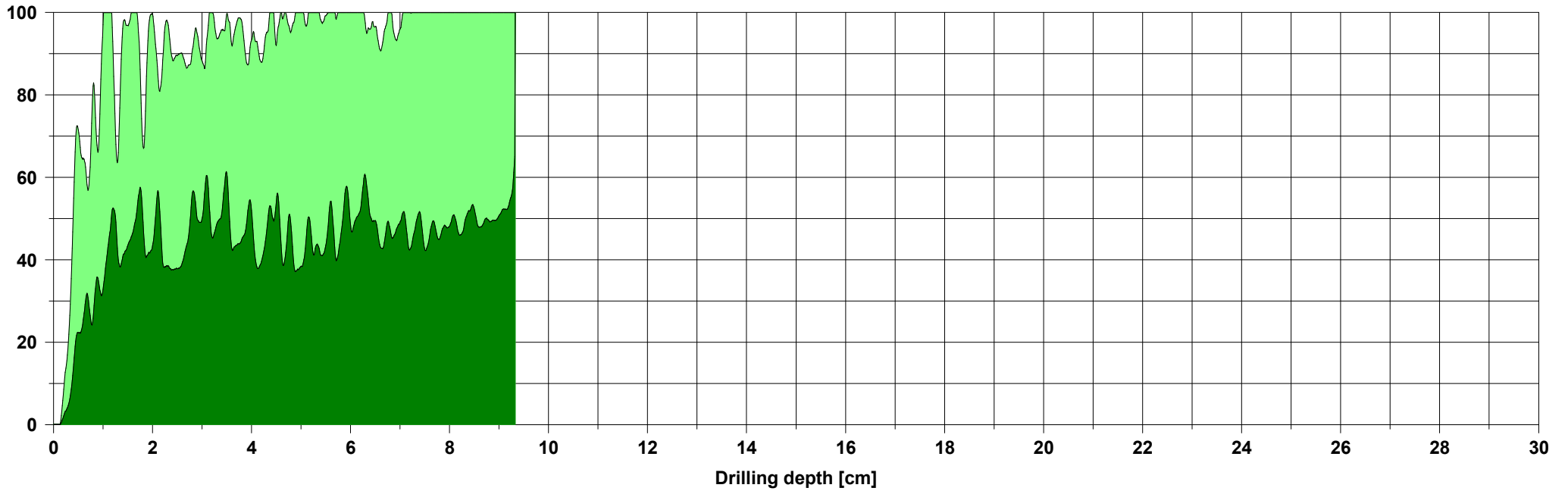
### Assessment

### Comment

### Measuring / object data

Measurement no.:	70	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.13.5A	Needle state:	---	Level	:
Drilling depth	: 9,33 cm	Tilt	: +2°	Direction:	
Date	: 03.04.2025	Offset	: 93 / 256	Species	:
Time	: 13:24:13	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



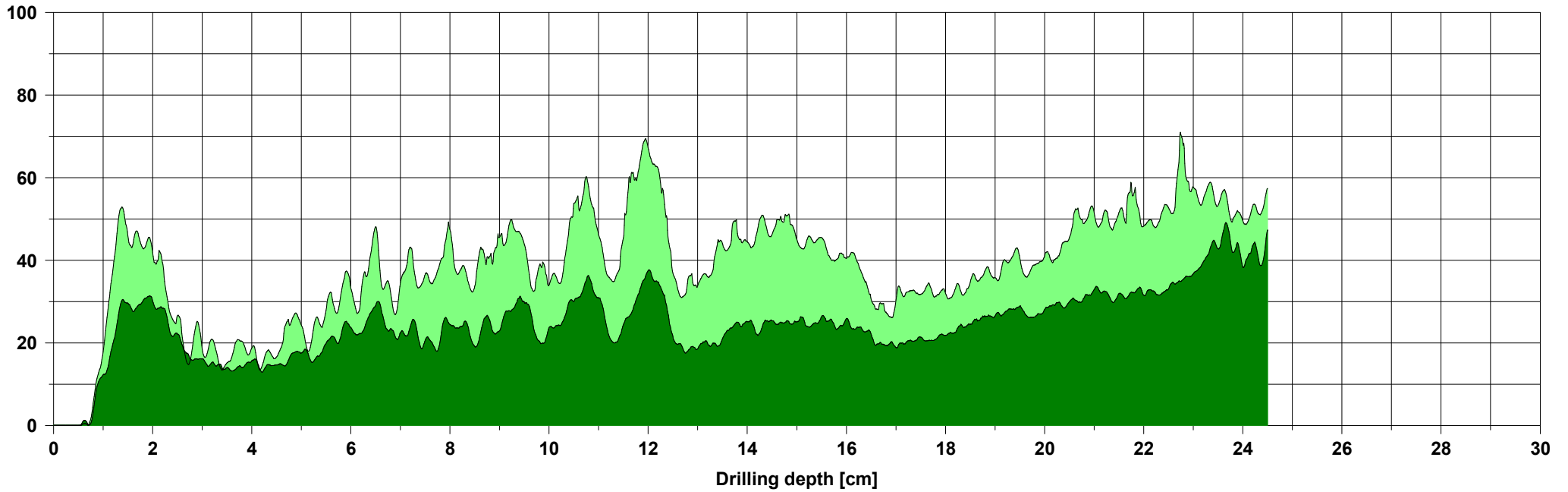
### Assessment

### Comment

### Measuring / object data

Measurement no.:	71	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.13.6A	Needle state:	---	Level	:
Drilling depth	: 24,50 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 106 / 253	Species	:
Time	: 09:41:05	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



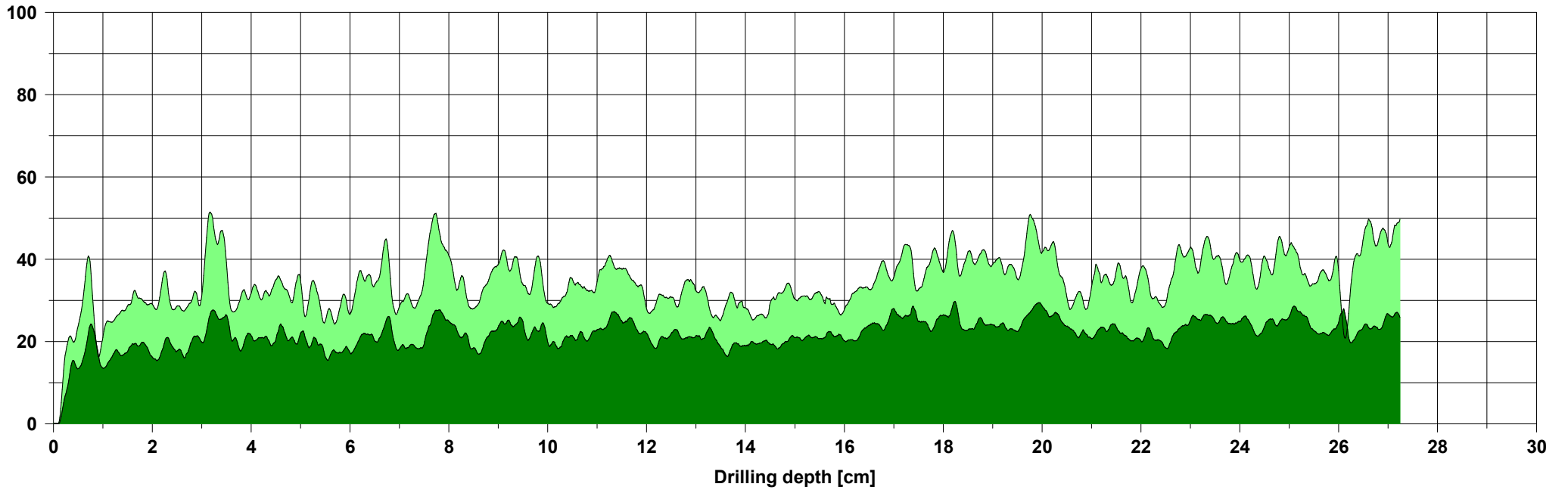
### Assessment

### Comment

### Measuring / object data

Measurement no.:	72	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.14.1A4	Needle state:	---	Level	:
Drilling depth	: 27,24 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 121 / 249	Species	:
Time	: 10:17:29	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



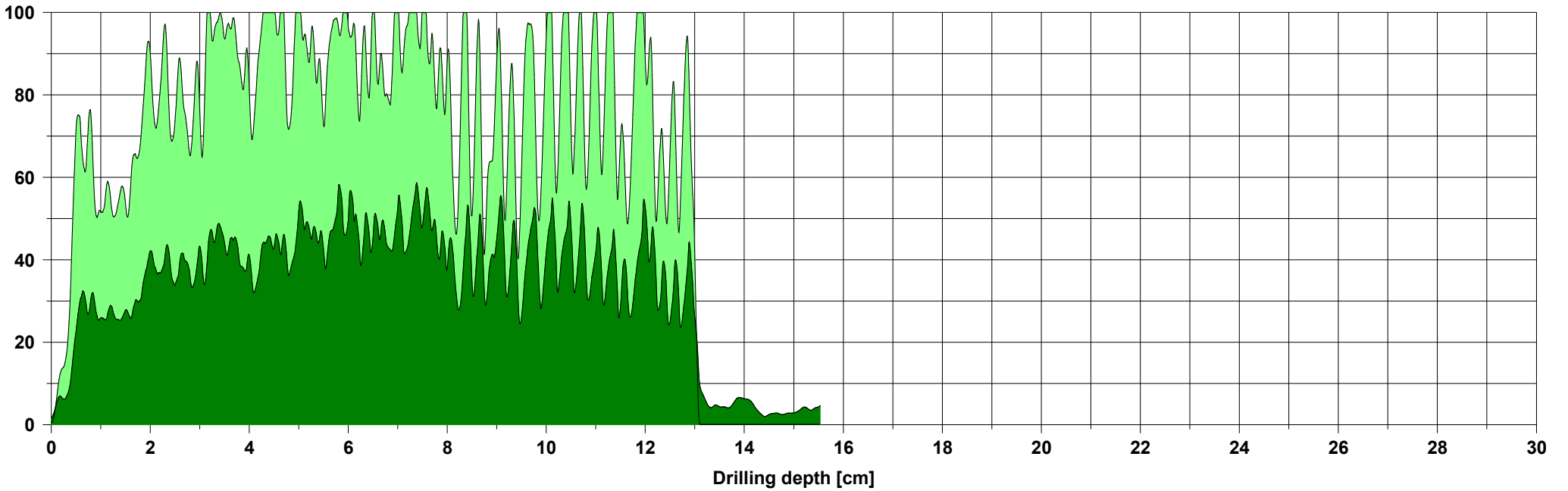
### Assessment

### Comment

### Measuring / object data

Measurement no.:	73	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.14.2A	Needle state:	---	Level	:
Drilling depth	: 15,53 cm	Tilt	: +4°	Direction:	
Date	: 03.04.2025	Offset	: 91 / 260	Species	:
Time	: 13:27:10	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



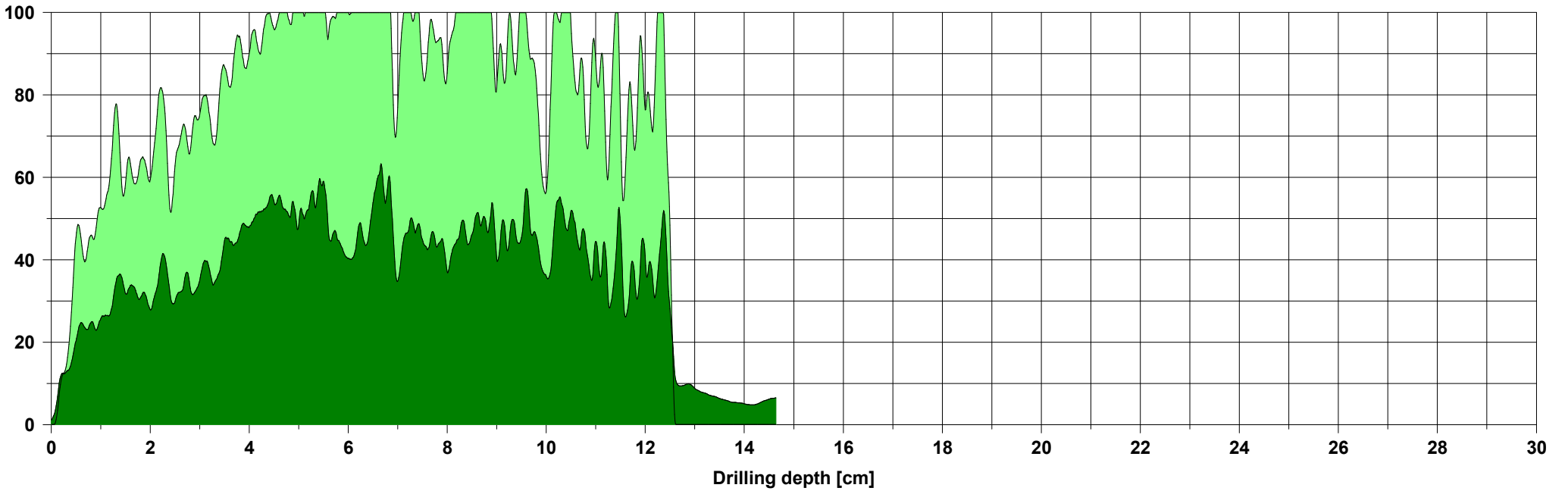
### Assessment

### Comment

### Measuring / object data

Measurement no.:	74	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.14.5A	Needle state:	---	Level	:
Drilling depth	: 14,64 cm	Tilt	: -3°	Direction:	
Date	: 03.04.2025	Offset	: 92 / 257	Species	:
Time	: 13:28:19	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



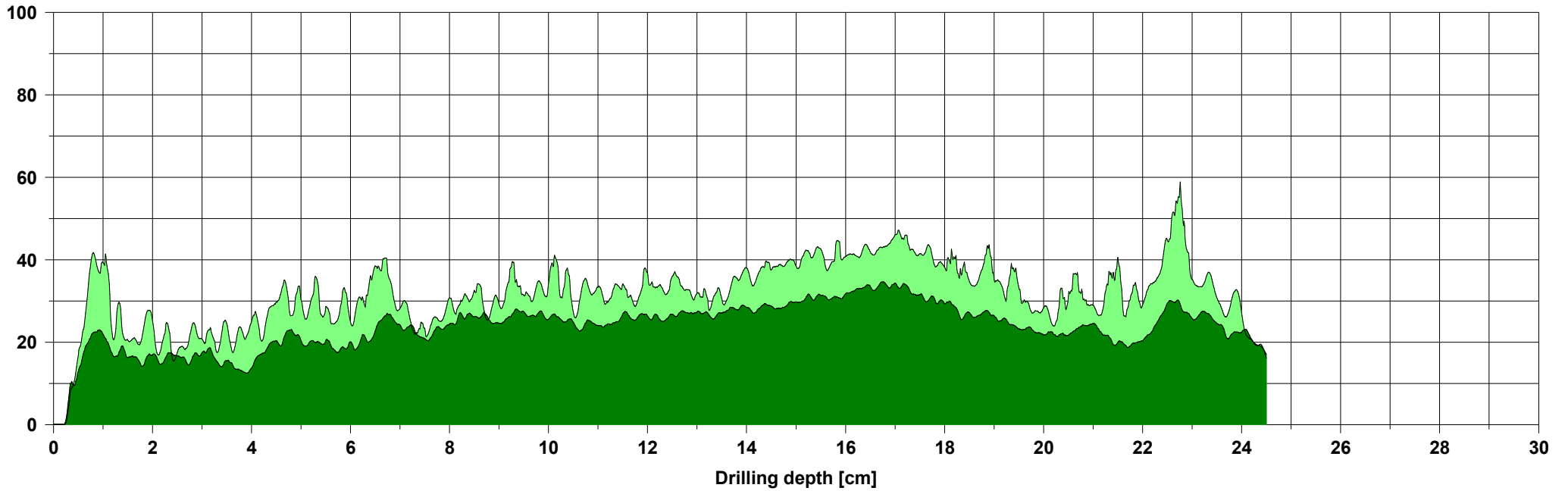
### Assessment

### Comment

### Measuring / object data

Measurement no.:	75	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.14.6A	Needle state:	---	Level	:
Drilling depth	: 24,50 cm	Tilt	: +47°	Direction:	
Date	: 03.04.2025	Offset	: 115 / 257	Species	:
Time	: 09:42:56	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

Amplitude [%]



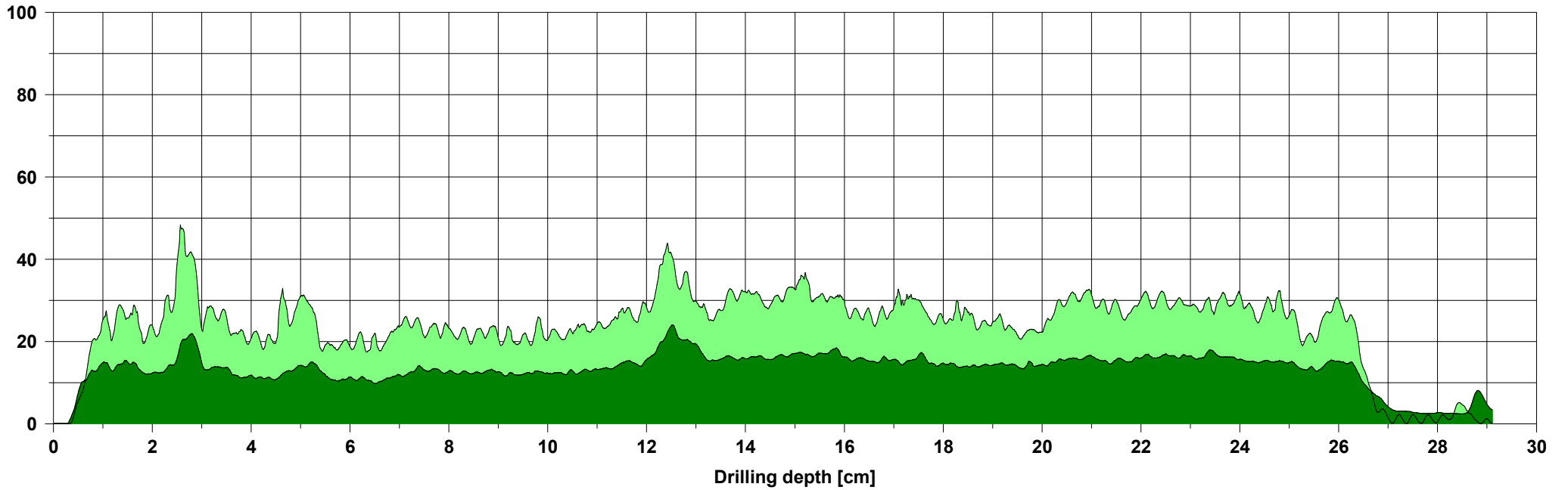
Assessment

Comment

### Measuring / object data

Measurement no.:	76	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.15.1A	Needle state:	---	Level	:
Drilling depth	: 29,11 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 109 / 251	Species	:
Time	: 10:12:41	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



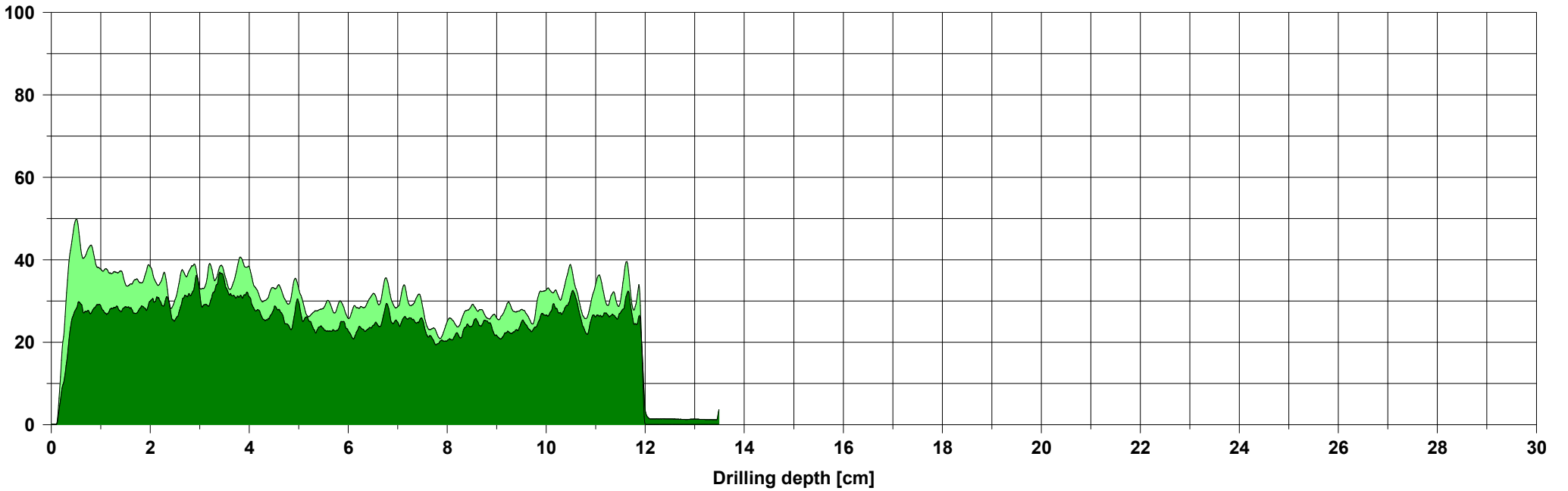
### Assessment

### Comment

### Measuring / object data

Measurement no.:	77	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.15.2A	Needle state:	---	Level	:
Drilling depth	: 13,49 cm	Tilt	: +3°	Direction:	
Date	: 03.04.2025	Offset	: 94 / 290	Species	:
Time	: 13:39:55	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



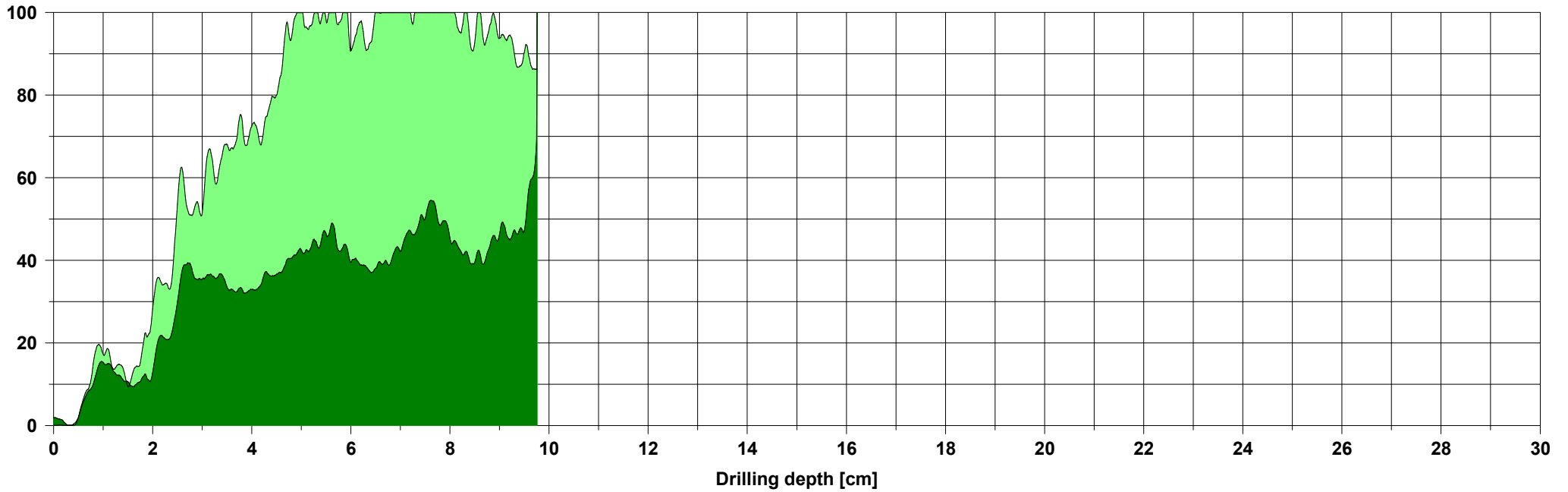
### Assessment

### Comment

### Measuring / object data

Measurement no.:	78	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.15.3A	Needle state:	---	Level	:
Drilling depth	: 9,76 cm	Tilt	: +41°	Direction:	
Date	: 03.04.2025	Offset	: 106 / 247	Species	:
Time	: 13:30:48	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



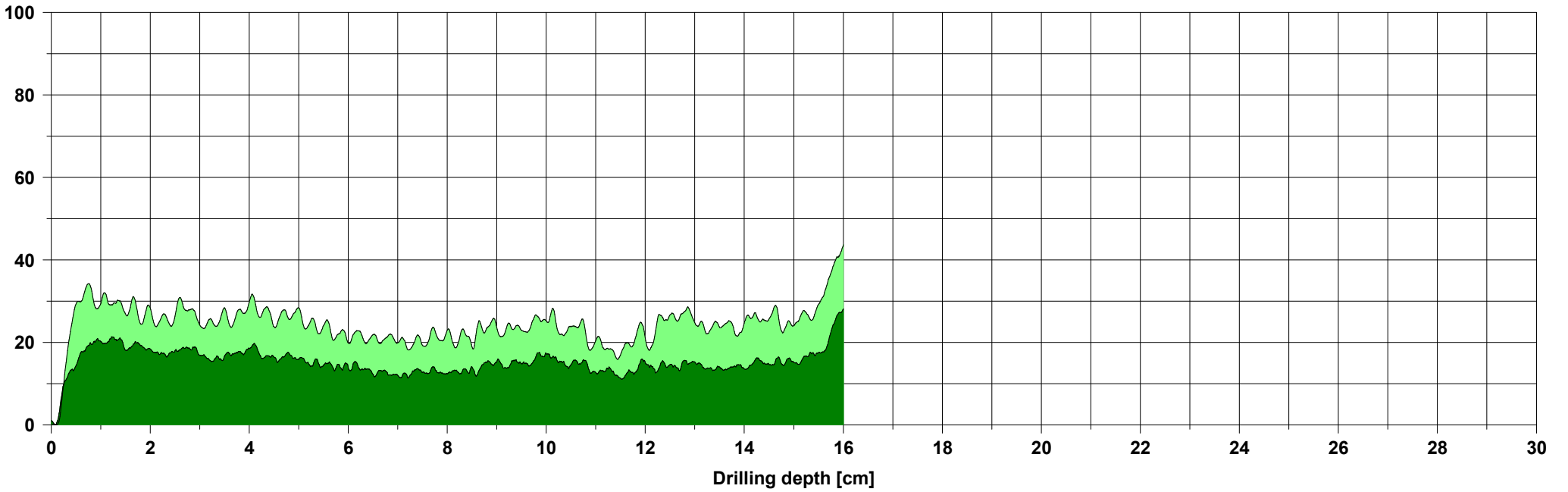
### Assessment

### Comment

### Measuring / object data

Measurement no.:	79	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.15.4A	Needle state:	---	Level	:
Drilling depth	: 16,00 cm	Tilt	: +56°	Direction:	
Date	: 03.04.2025	Offset	: 117 / 503	Species	:
Time	: 13:39:04	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



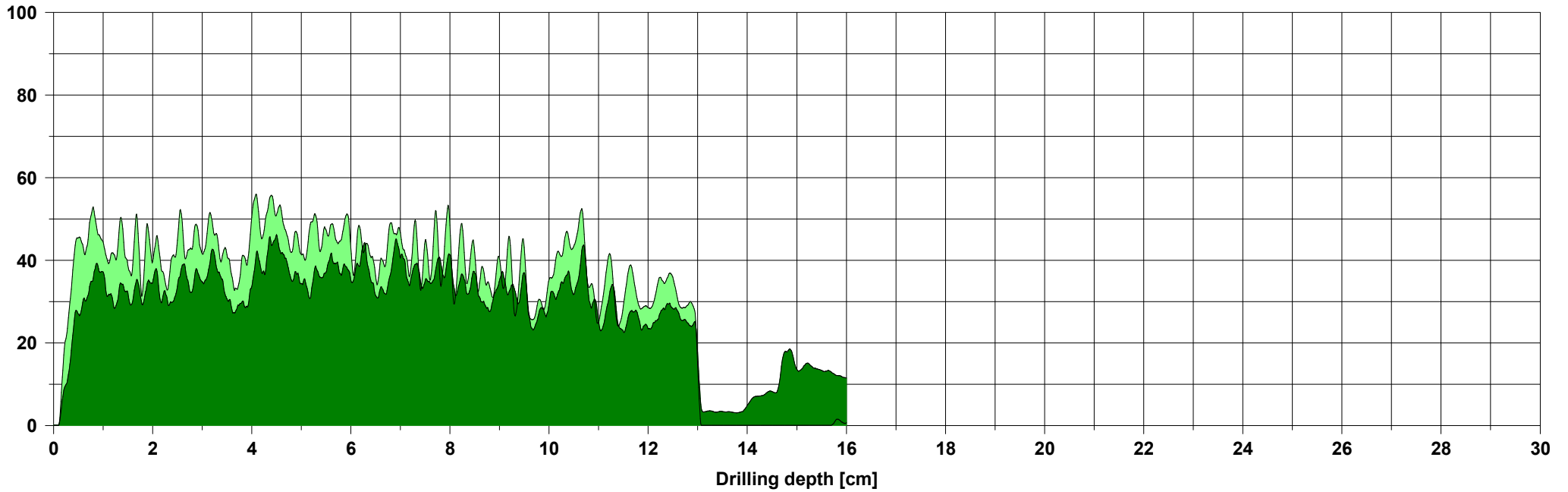
### Assessment

### Comment

### Measuring / object data

Measurement no.:	80	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.15.5A	Needle state:	---	Level	:
Drilling depth	: 16,00 cm	Tilt	: +5°	Direction:	
Date	: 03.04.2025	Offset	: 95 / 275	Species	:
Time	: 13:40:57	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



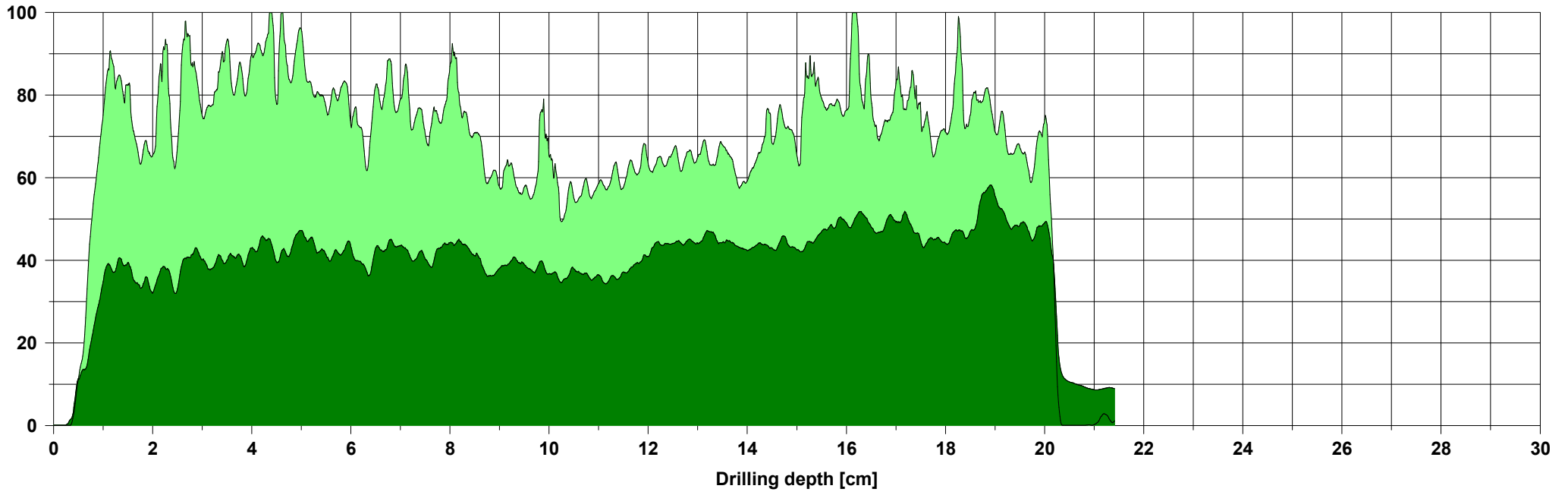
### Assessment

### Comment

### Measuring / object data

Measurement no.:	81	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.15.6A	Needle state:	---	Level	:
Drilling depth	: 21,41 cm	Tilt	: +49°	Direction:	
Date	: 03.04.2025	Offset	: 108 / 250	Species	:
Time	: 09:45:38	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



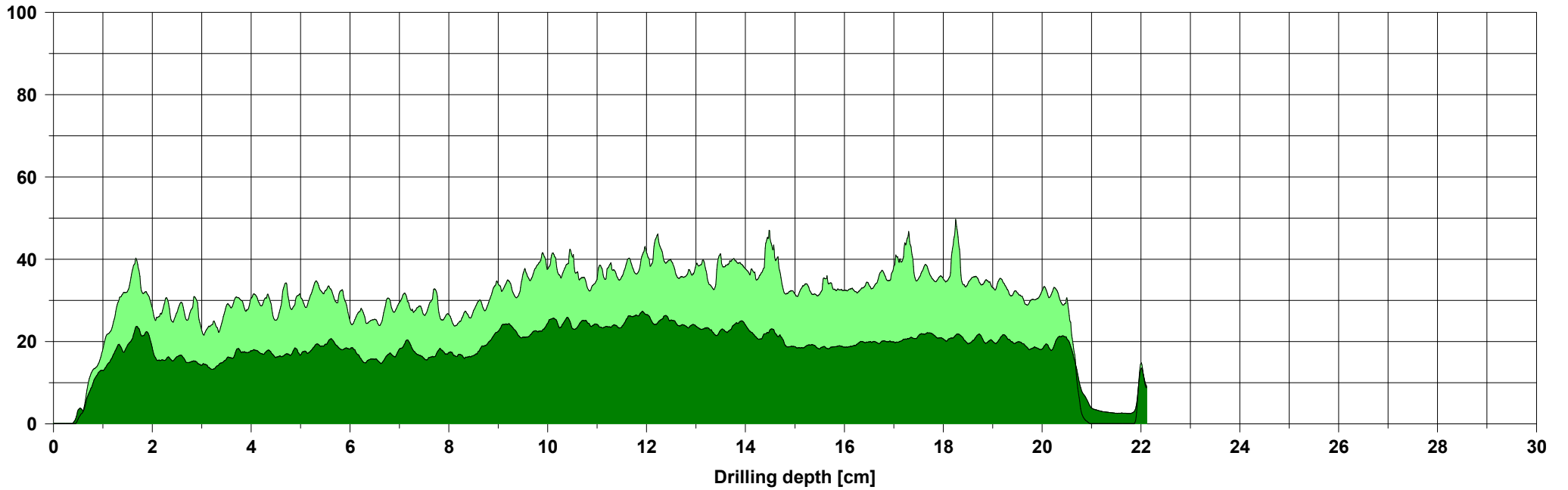
### Assessment

### Comment

### Measuring / object data

Measurement no.:	82	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.16.1A	Needle state:	---	Level	:
Drilling depth	: 22,12 cm	Tilt	: +43°	Direction:	
Date	: 03.04.2025	Offset	: 112 / 250	Species	:
Time	: 10:08:49	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

Amplitude [%]



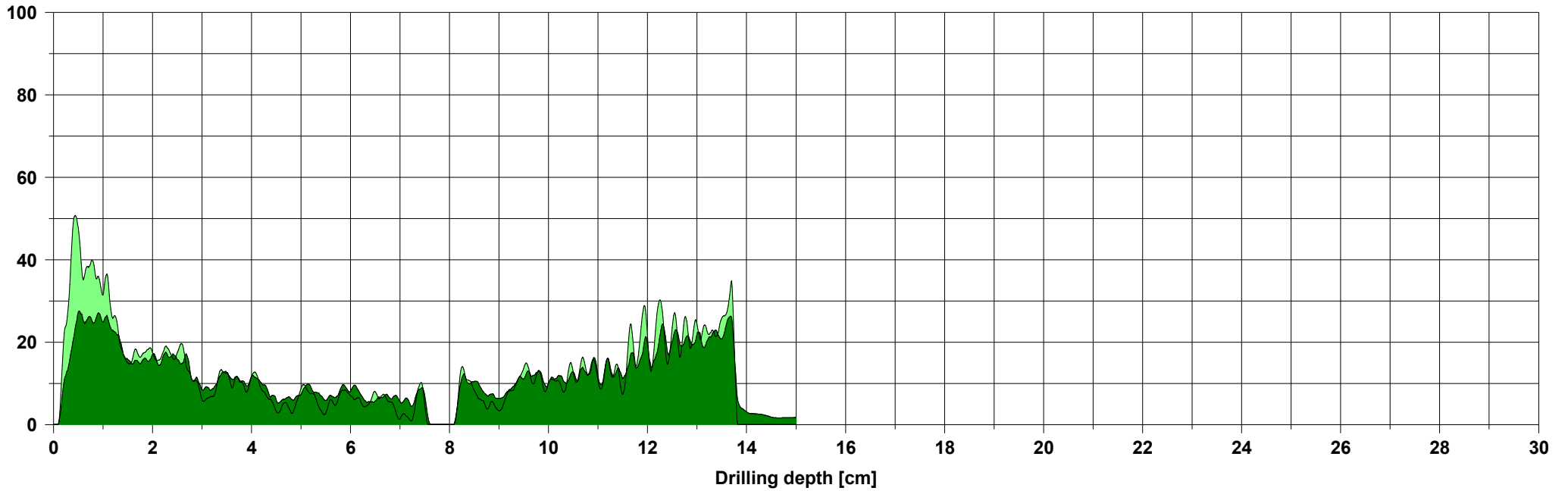
Assessment

Comment

### Measuring / object data

Measurement no.:	83	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.16.2A	Needle state:	---	Level	:
Drilling depth	: 15,00 cm	Tilt	: +2°	Direction:	
Date	: 03.04.2025	Offset	: 90 / 272	Species	:
Time	: 13:43:40	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



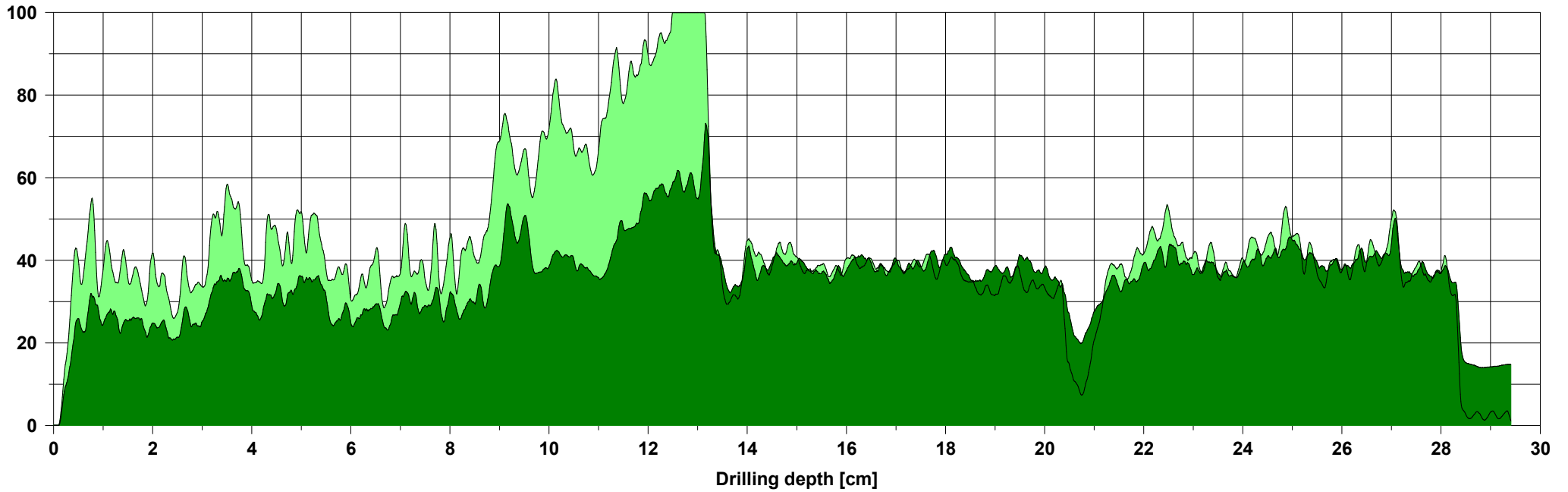
### Assessment

### Comment

### Measuring / object data

Measurement no.:	84	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.16.2A10	Needle state:	---	Level	:
Drilling depth	: 29,41 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 110 / 258	Species	:
Time	: 13:50:36	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



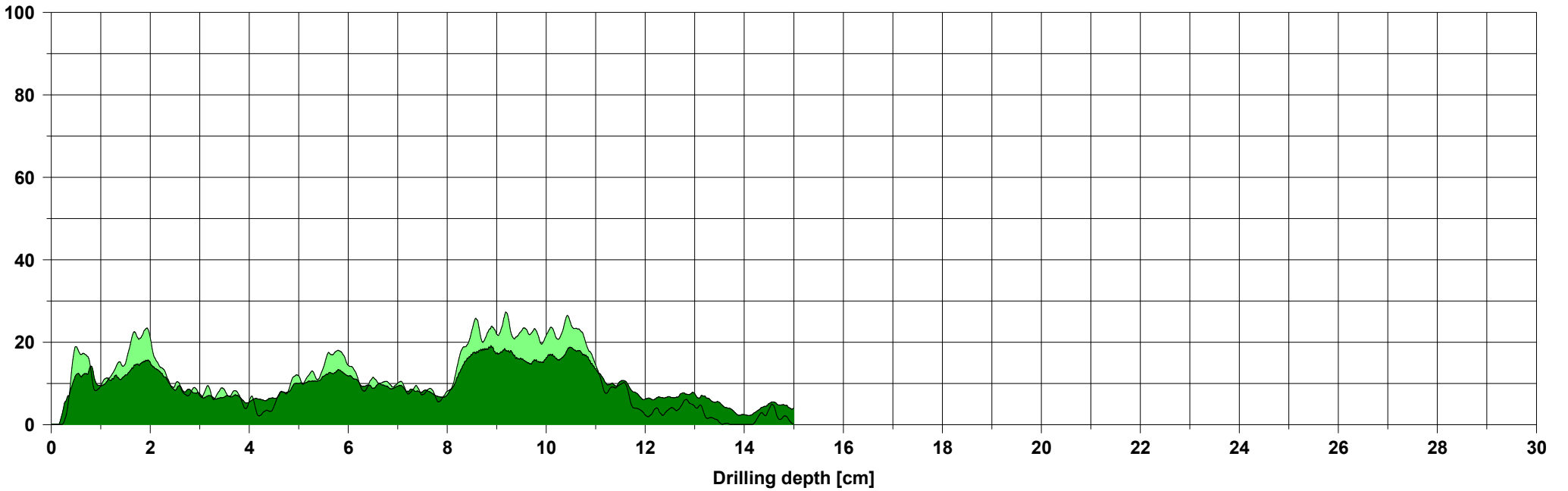
### Assessment

### Comment

### Measuring / object data

Measurement no.:	85	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.16.3A	Needle state:	---	Level	:
Drilling depth	: 15,00 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 102 / 256	Species	:
Time	: 13:47:23	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



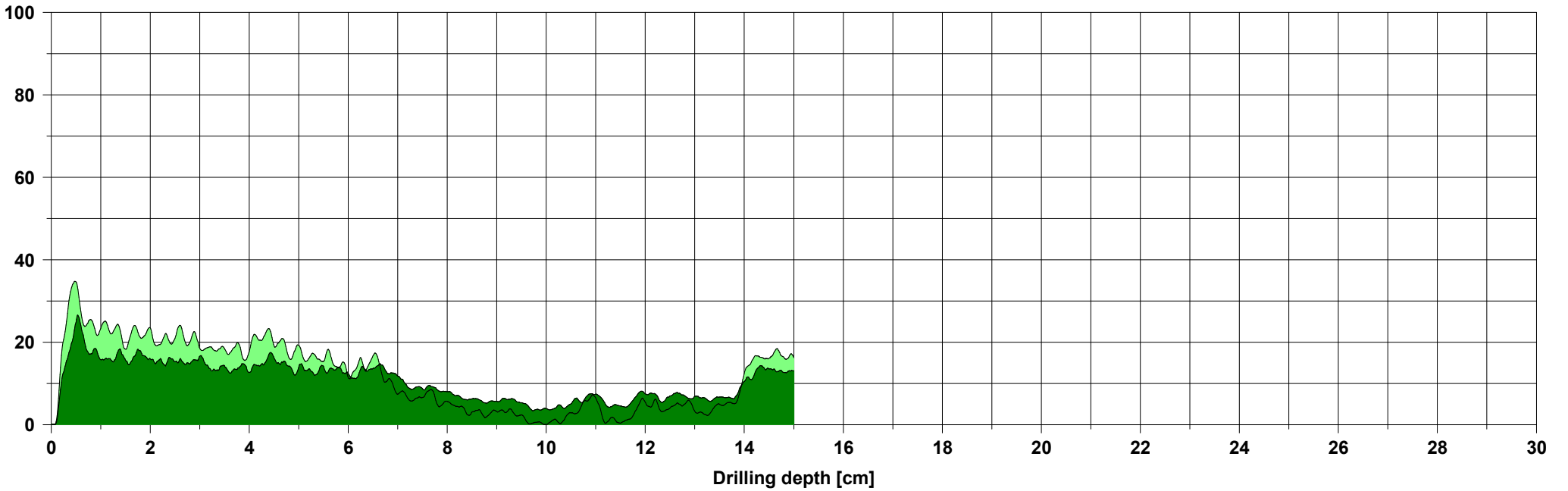
### Assessment

### Comment

### Measuring / object data

Measurement no.:	86	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.16.3A4	Needle state:	---	Level	:
Drilling depth	: 15,00 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 110 / 257	Species	:
Time	: 13:48:07	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



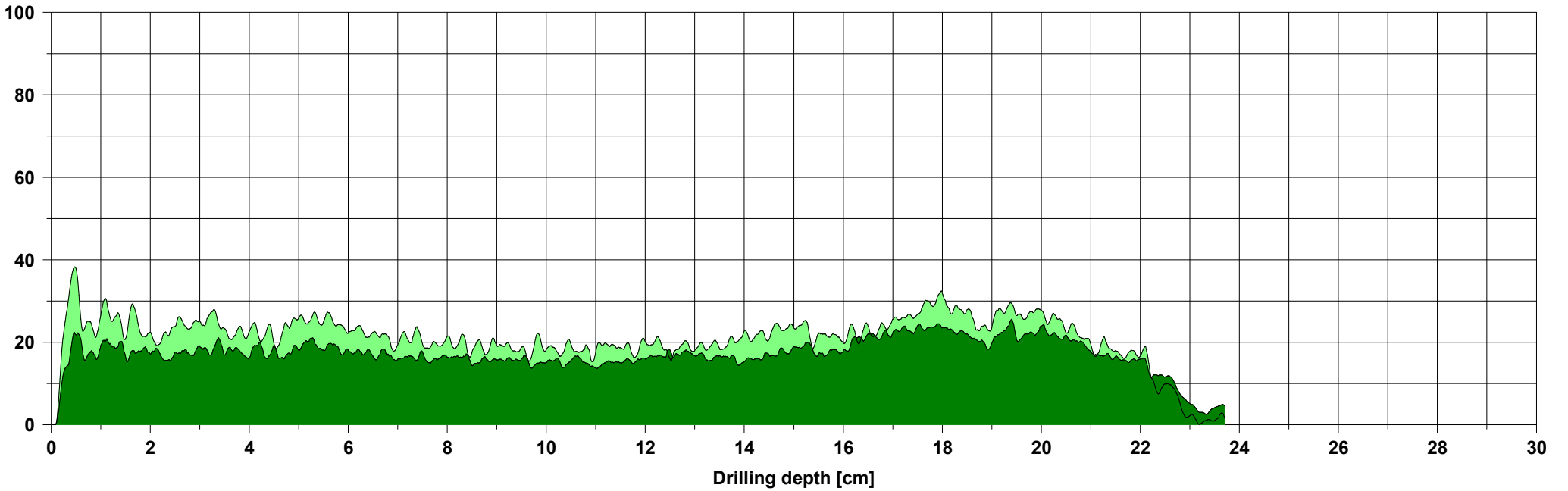
### Assessment

### Comment

### Measuring / object data

Measurement no.:	87	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.16.3A20	Needle state:	---	Level	:
Drilling depth	: 23,70 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 108 / 263	Species	:
Time	: 13:52:36	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



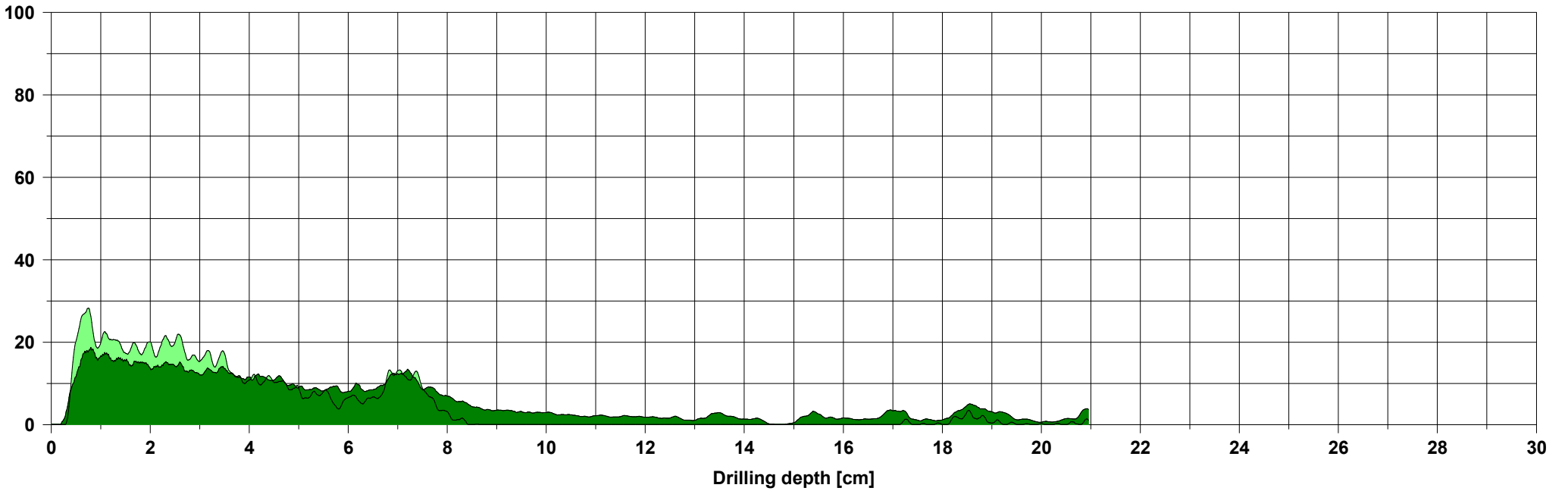
### Assessment

### Comment

### Measuring / object data

Measurement no.:	88	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.16.4A	Needle state:	---	Level	:
Drilling depth	: 20,95 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 107 / 253	Species	:
Time	: 13:54:49	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

Amplitude [%]



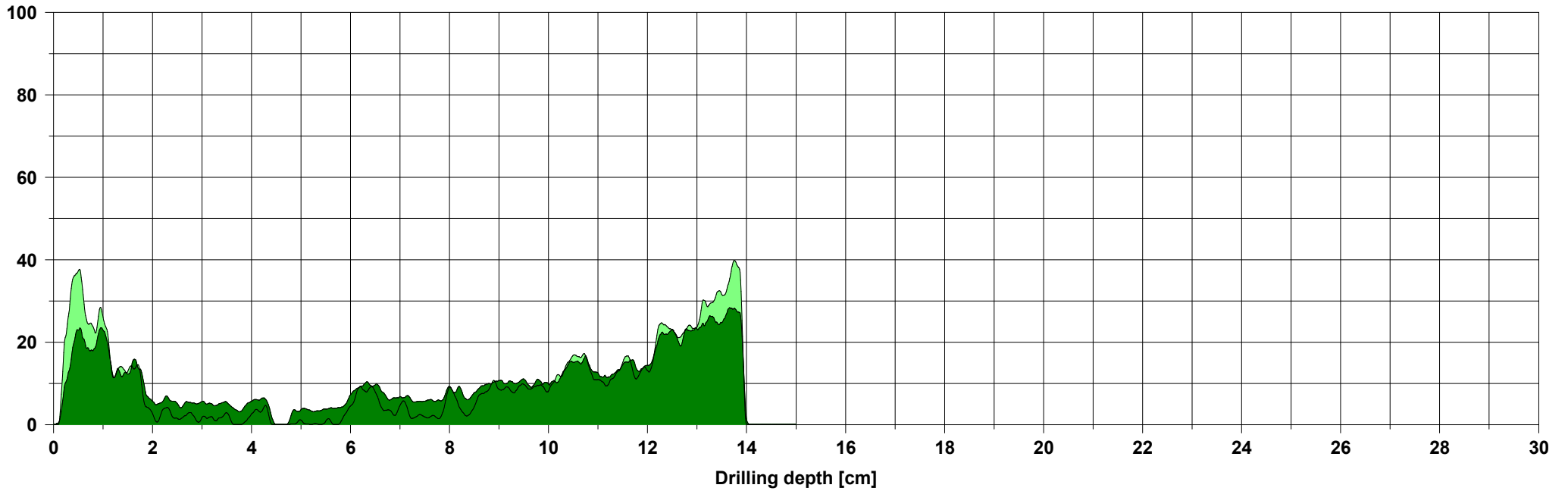
Assessment

Comment

### Measuring / object data

Measurement no.:	89	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.16.5A	Needle state:	---	Level	:
Drilling depth	: 15,00 cm	Tilt	: +4°	Direction:	
Date	: 03.04.2025	Offset	: 93 / 260	Species	:
Time	: 13:45:47	Avg. curve	: off / off	Location	:
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



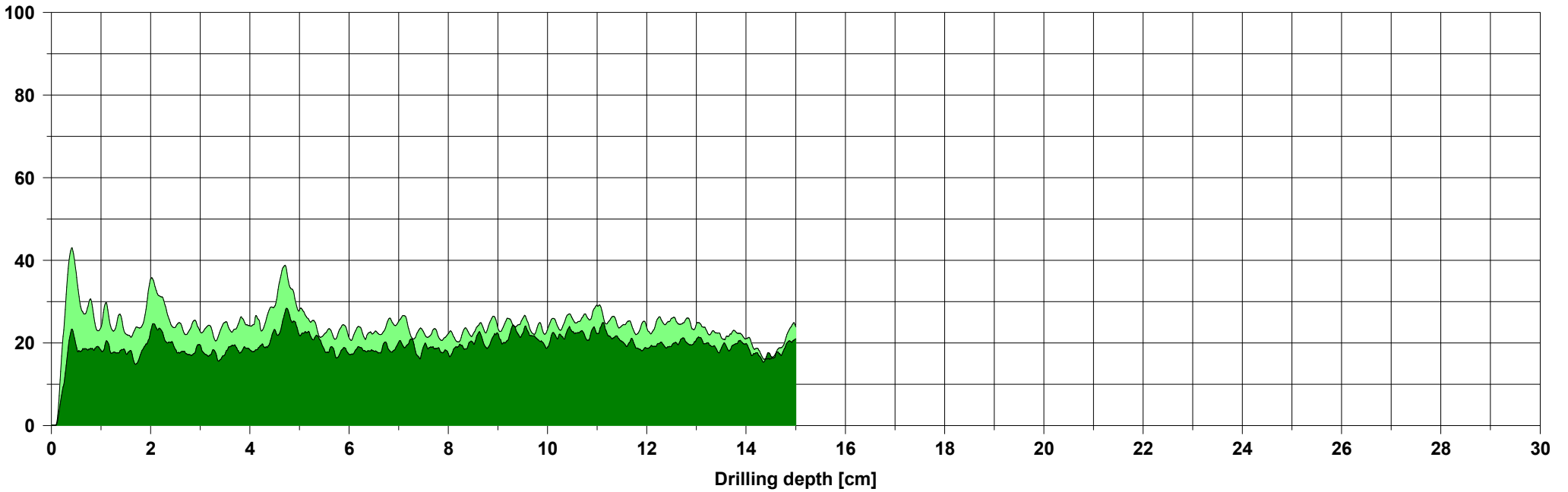
### Assessment

### Comment

### Measuring / object data

Measurement no.:	90	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.16.5A4	Needle state:	---	Level	:
Drilling depth	: 15,00 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 106 / 266	Species	:
Time	: 13:46:31	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



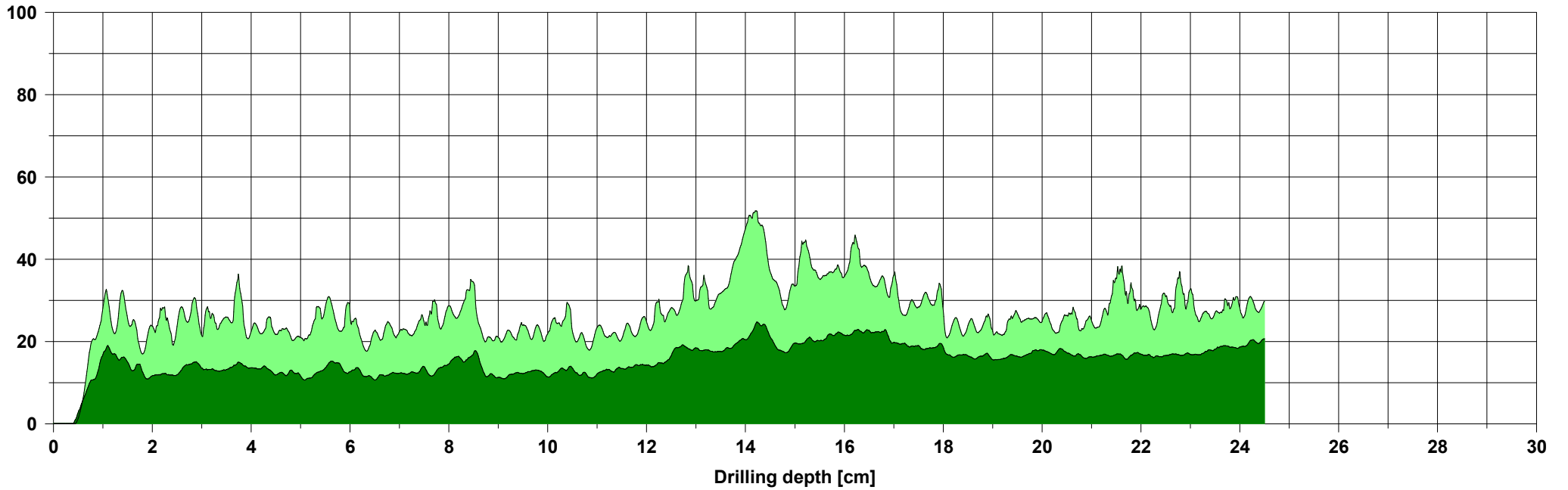
### Assessment

### Comment

### Measuring / object data

Measurement no.:	91	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.16.6A	Needle state:	---	Level	:
Drilling depth	: 24,50 cm	Tilt	: +46°	Direction:	
Date	: 03.04.2025	Offset	: 112 / 248	Species	:
Time	: 09:47:49	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

Amplitude [%]



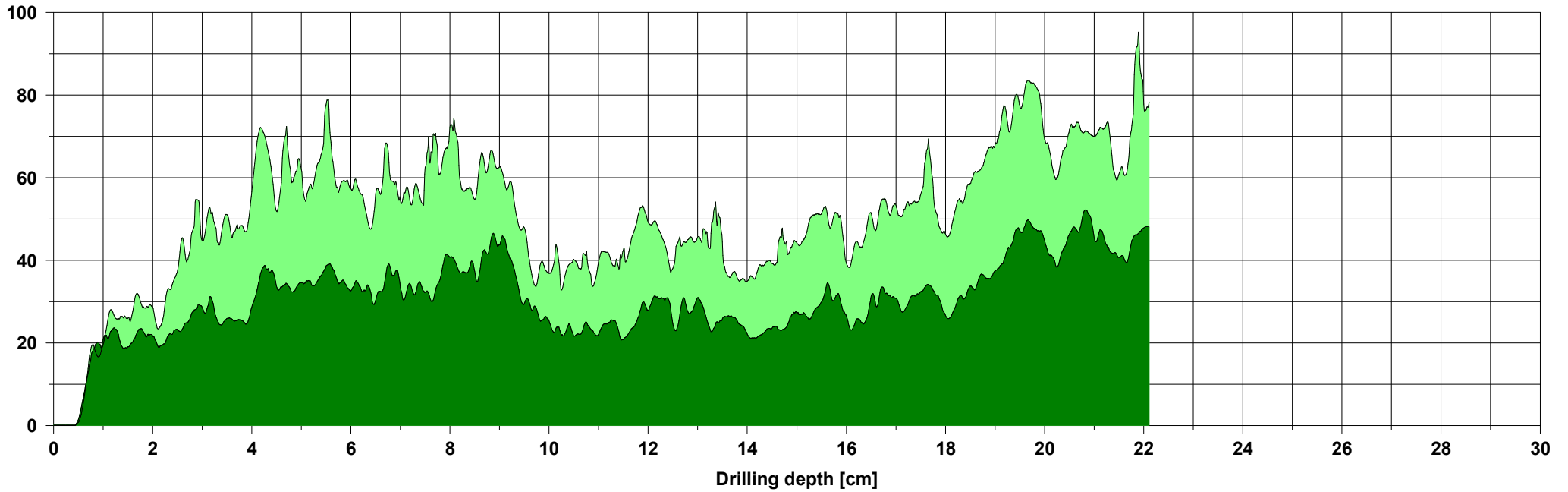
Assessment

Comment

### Measuring / object data

Measurement no.:	92	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.17.1A	Needle state:	---	Level	:
Drilling depth	: 22,11 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 112 / 250	Species	:
Time	: 10:04:40	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



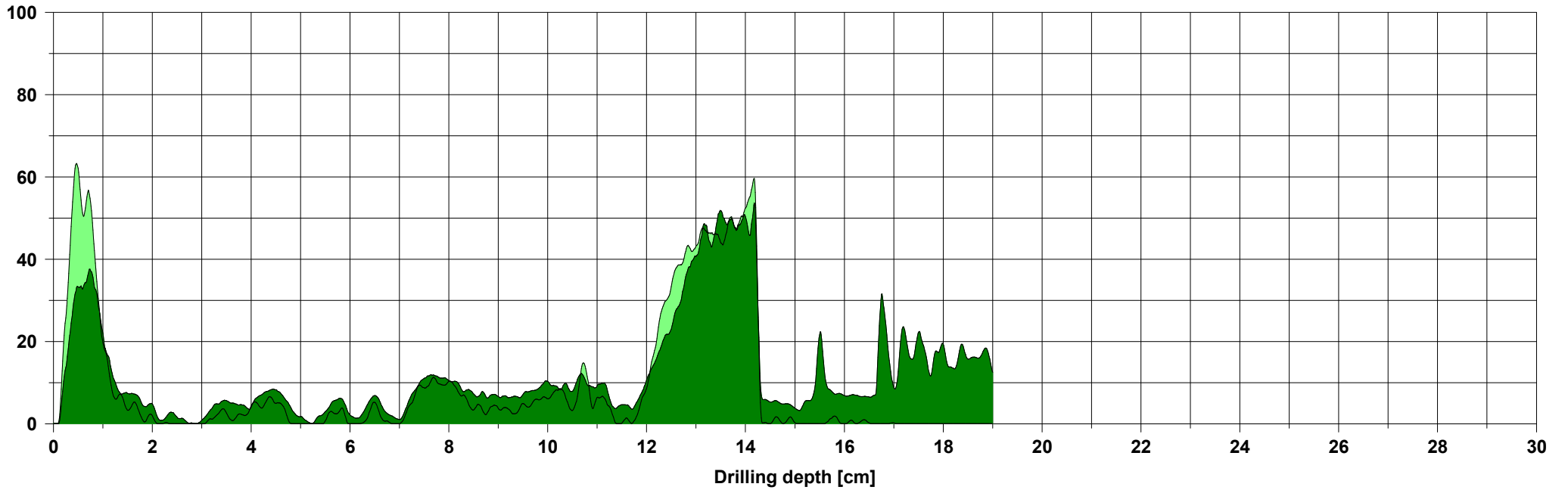
### Assessment

### Comment

### Measuring / object data

Measurement no.:	93	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.17.2A	Needle state:	---	Level	:
Drilling depth	: 19,00 cm	Tilt	: +5°	Direction:	
Date	: 03.04.2025	Offset	: 86 / 251	Species	:
Time	: 13:57:10	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



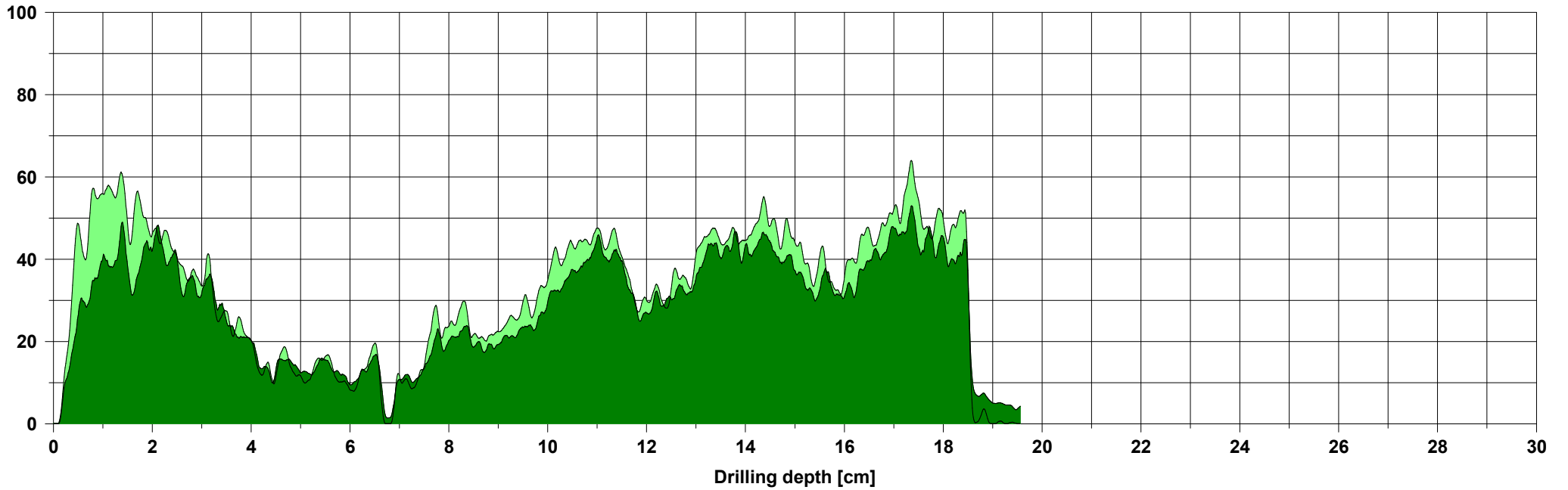
### Assessment

### Comment

### Measuring / object data

Measurement no.:	94	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.17.2A4	Needle state:	---	Level	:
Drilling depth	: 19,56 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 106 / 249	Species	:
Time	: 13:58:14	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



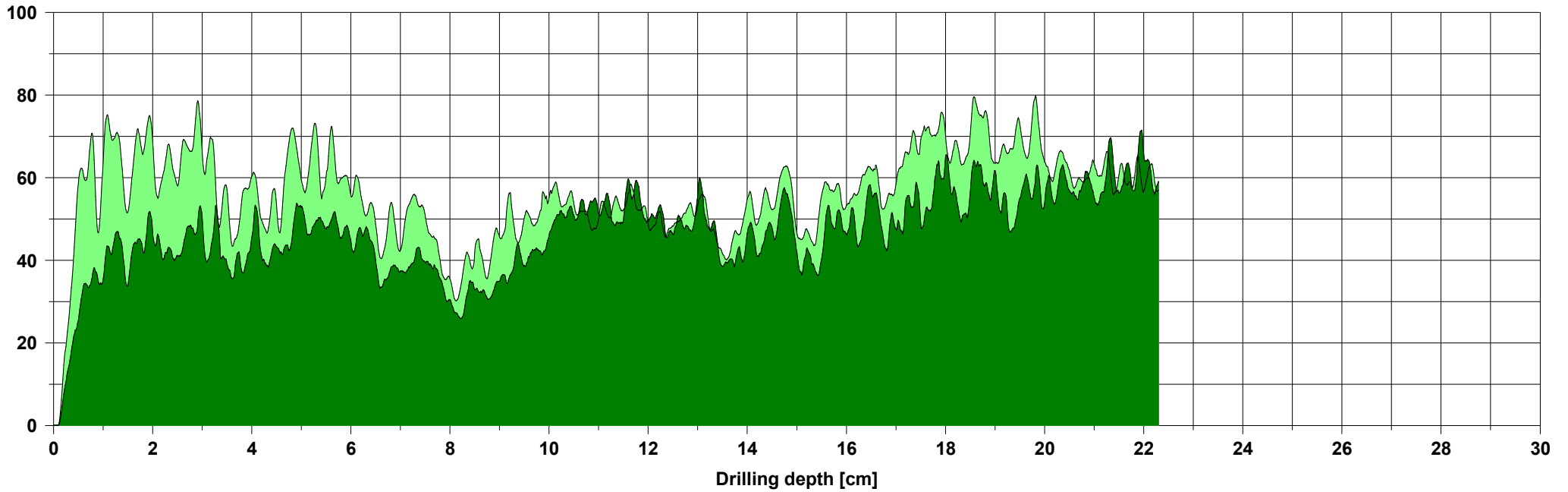
### Assessment

### Comment

### Measuring / object data

Measurement no.:	95	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.17.2A10	Needle state:	---	Level	:
Drilling depth	: 22,30 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 103 / 250	Species	:
Time	: 14:01:20	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

Amplitude [%]



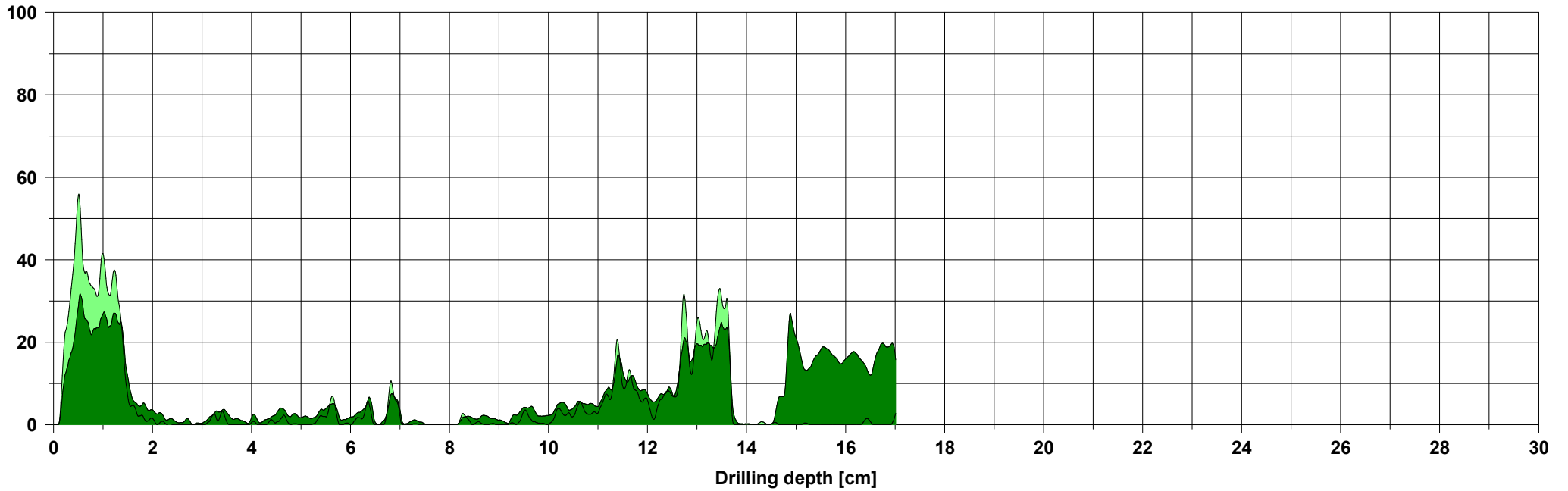
Assessment

Comment

### Measuring / object data

Measurement no.:	96	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.17.5A	Needle state:	---	Level	:
Drilling depth	: 17,01 cm	Tilt	: +1°	Direction:	
Date	: 03.04.2025	Offset	: 87 / 251	Species	:
Time	: 13:59:06	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



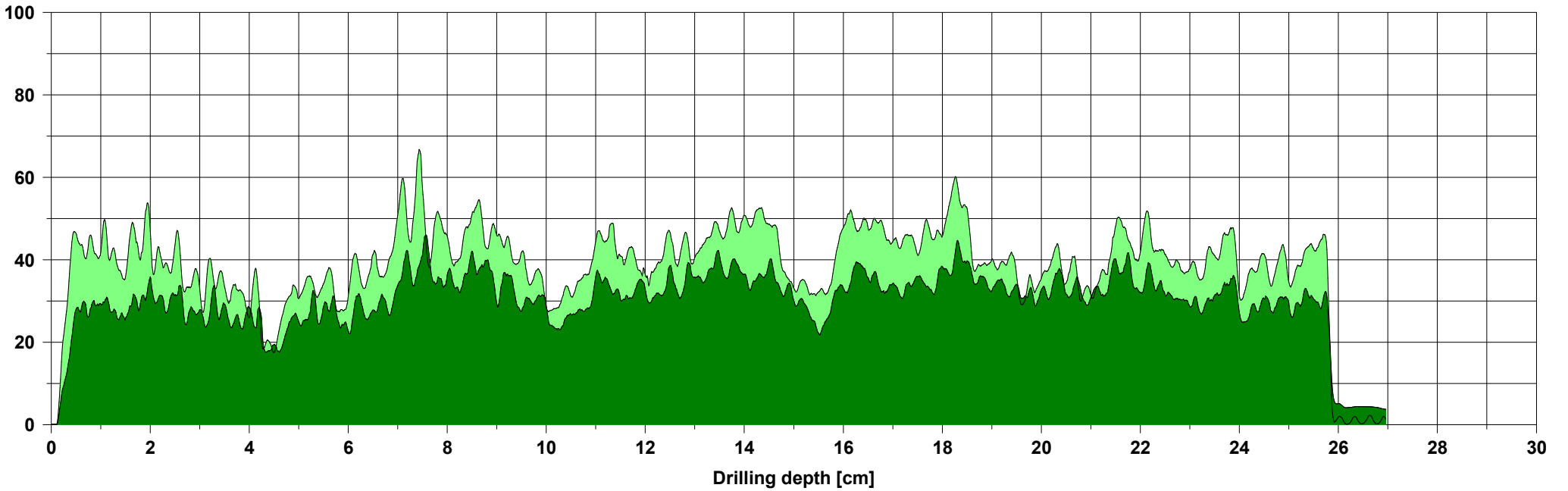
### Assessment

### Comment

### Measuring / object data

Measurement no.:	97	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.17.5A4	Needle state:	---	Level	:
Drilling depth	: 26,96 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 106 / 251	Species	:
Time	: 13:59:54	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

Amplitude [%]



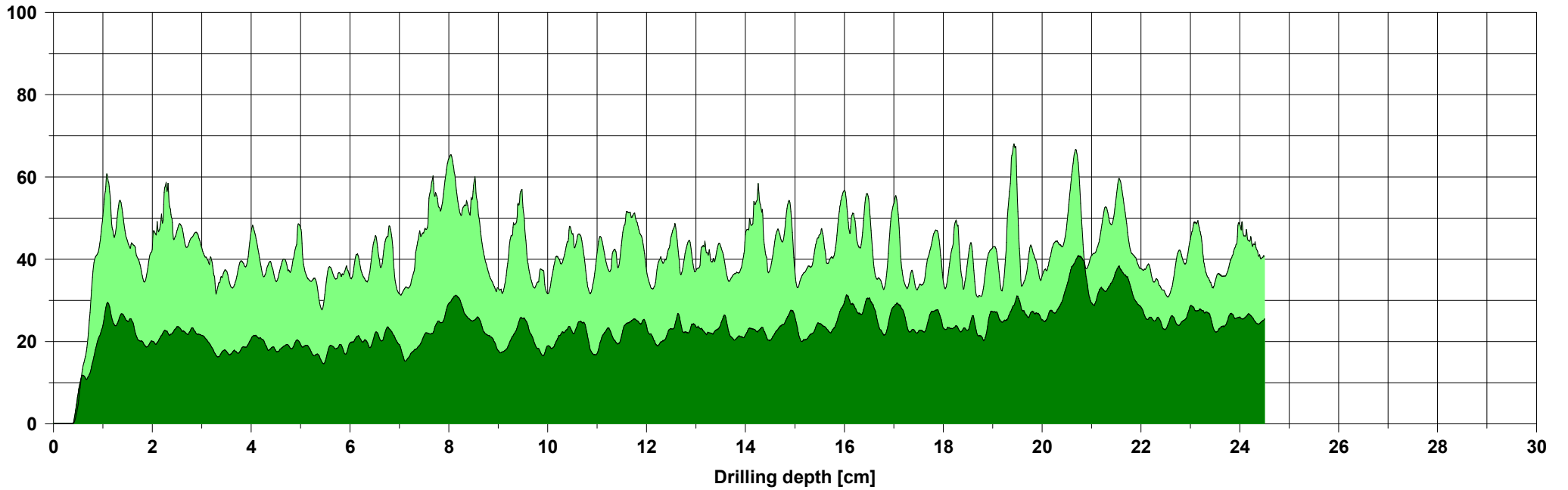
Assessment

Comment

### Measuring / object data

Measurement no.:	98	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.17.6A	Needle state:	---	Level	:
Drilling depth	: 24,50 cm	Tilt	: +45°	Direction:	
Date	: 03.04.2025	Offset	: 111 / 249	Species	:
Time	: 09:49:14	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



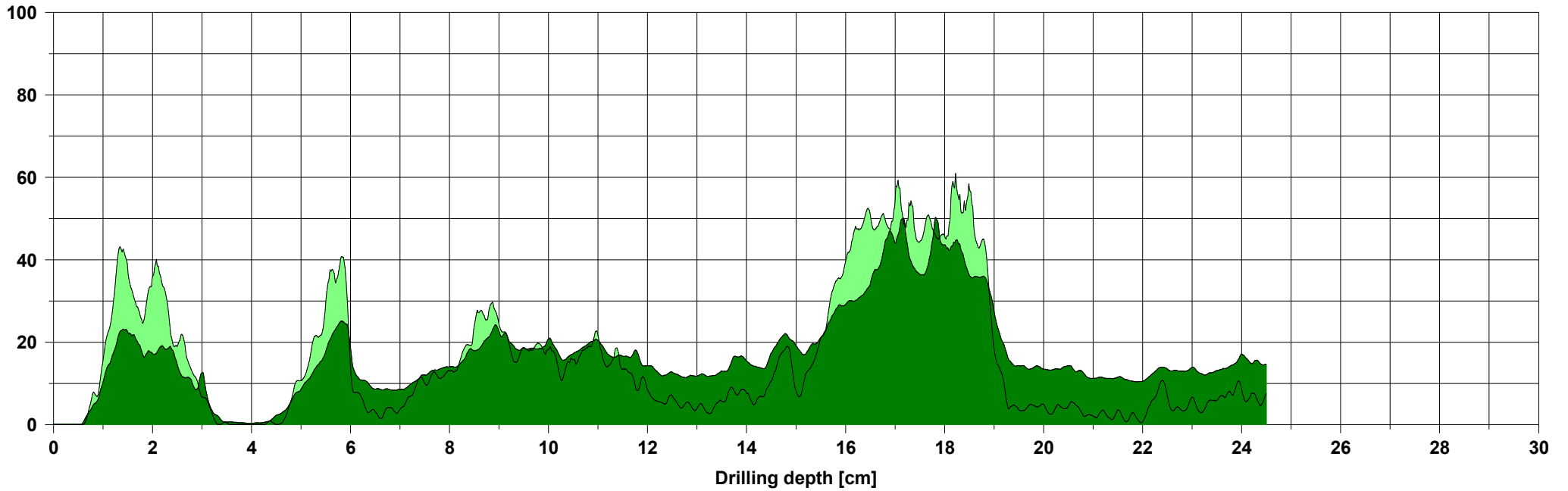
### Assessment

### Comment

### Measuring / object data

Measurement no.:	99	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.18.1A	Needle state:	---	Level	:
Drilling depth	: 24,50 cm	Tilt	: +44°	Direction:	
Date	: 03.04.2025	Offset	: 109 / 249	Species	:
Time	: 09:58:58	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



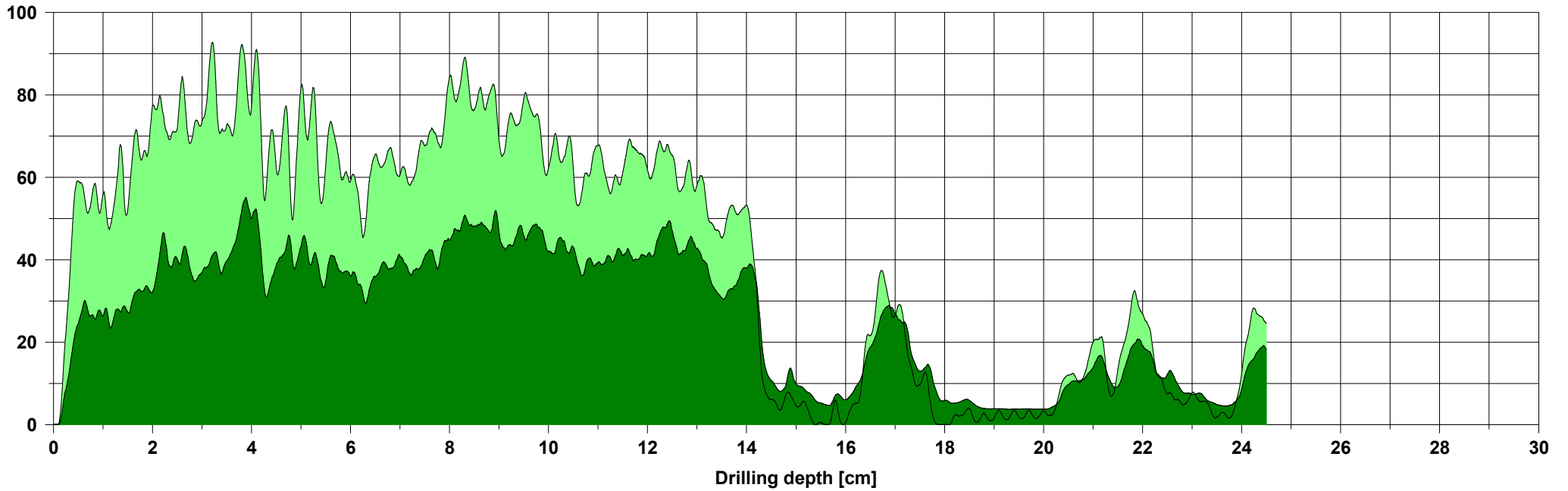
### Assessment

### Comment

### Measuring / object data

Measurement no.:	100	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.18.1A2	Needle state:	---	Level	:
Drilling depth	: 24,50 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 113 / 246	Species	:
Time	: 09:59:49	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



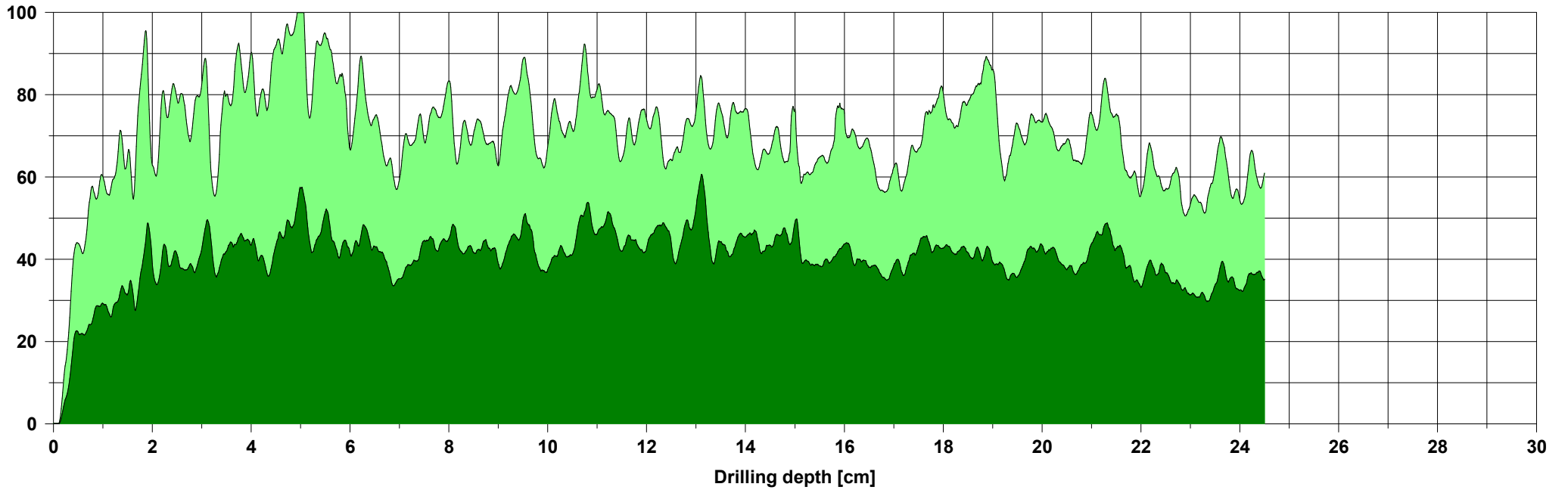
### Assessment

### Comment

### Measuring / object data

Measurement no.:	101	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.18.1A4	Needle state:	---	Level	:
Drilling depth	: 24,50 cm	Tilt	: +90°	Direction:	
Date	: 03.04.2025	Offset	: 116 / 249	Species	:
Time	: 10:01:11	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



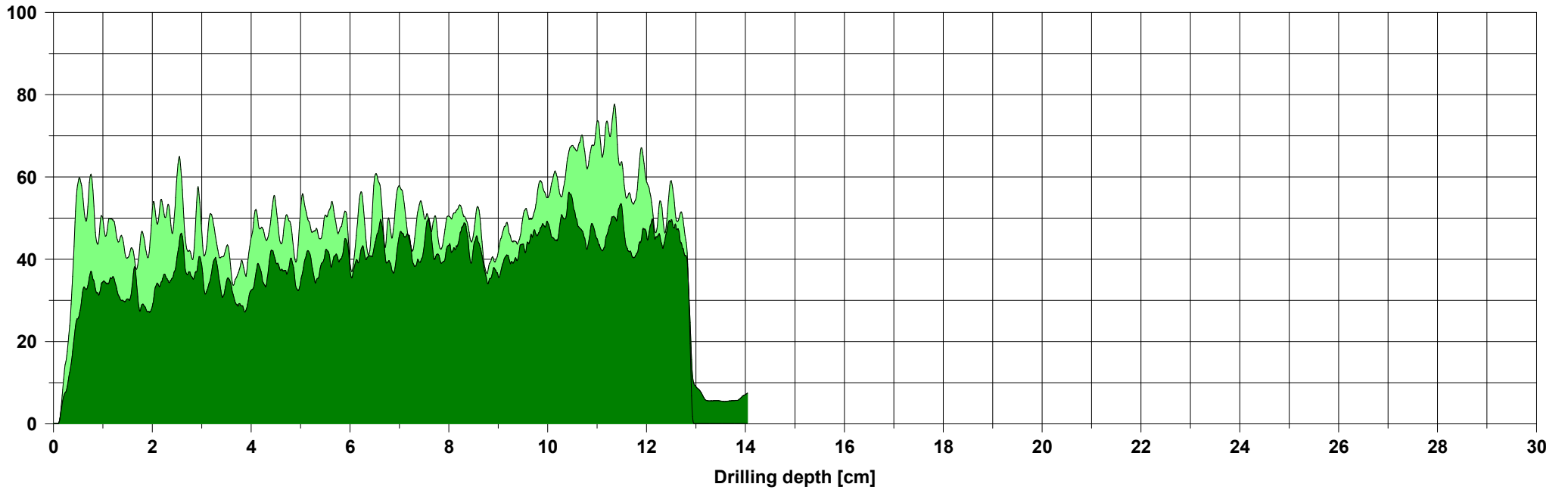
### Assessment

### Comment

### Measuring / object data

Measurement no.:	102	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.18.2A	Needle state:	---	Level	:
Drilling depth	: 14,04 cm	Tilt	: +7°	Direction:	
Date	: 03.04.2025	Offset	: 91 / 259	Species	:
Time	: 14:04:29	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



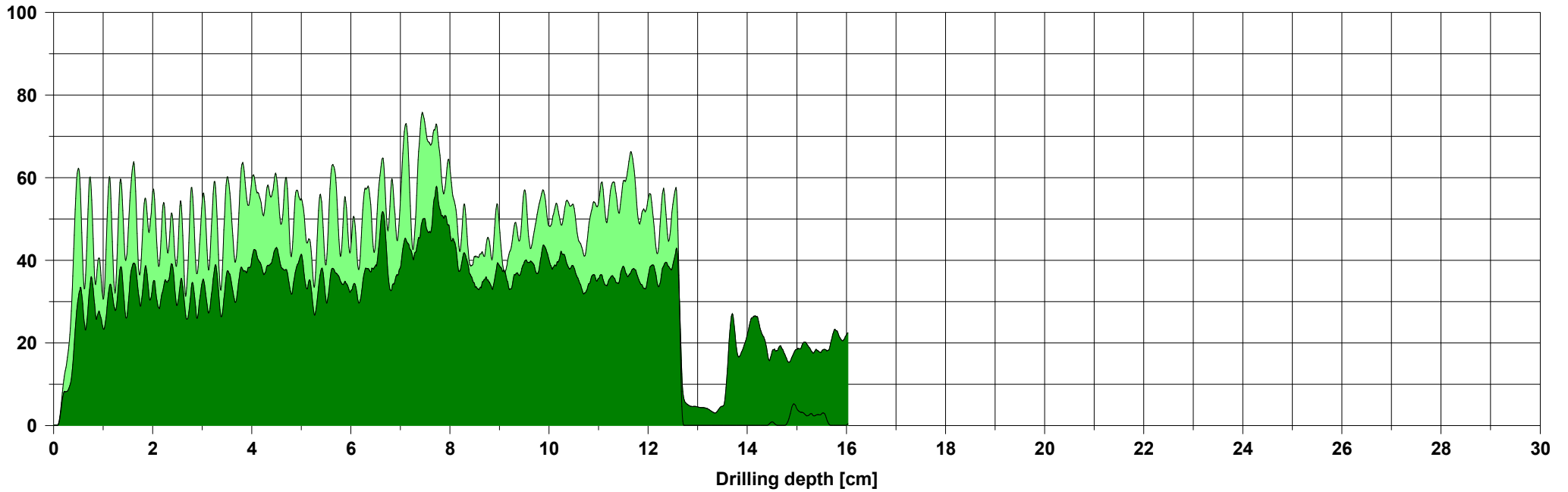
### Assessment

### Comment

### Measuring / object data

Measurement no.:	103	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.18.5A	Needle state:	---	Level	:
Drilling depth	: 16,03 cm	Tilt	: +5°	Direction:	
Date	: 03.04.2025	Offset	: 86 / 248	Species	:
Time	: 14:05:05	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



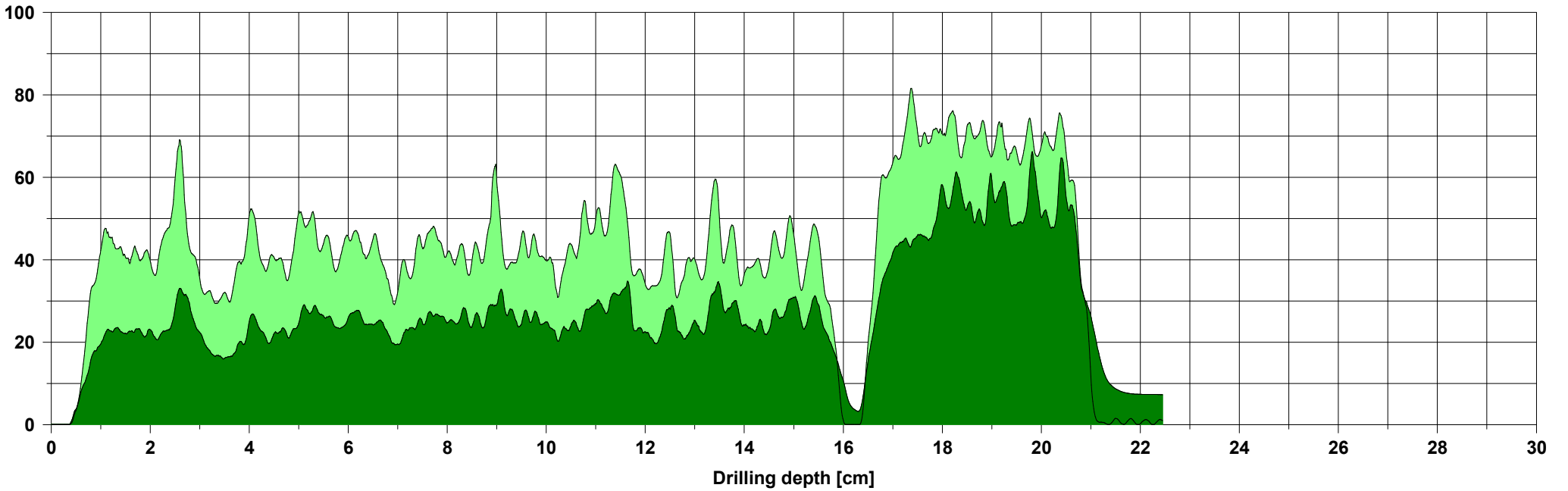
### Assessment

### Comment

### Measuring / object data

Measurement no.:	104	Speed	: 2500 r/min	Diameter:	
ID number	: WM.R.18.6A	Needle state:	---	Level	:
Drilling depth	: 22,45 cm	Tilt	: +46°	Direction:	
Date	: 03.04.2025	Offset	: 110 / 251	Species	:
Time	: 09:52:10	Avg. curve	: off / off	Location:	
Feed	: 100 cm/min	Name	:		

### Amplitude [%]



### Assessment

### Comment