Ground Condition Report

Fixed Soil Treatment Facility, Exeter

August 2025

DOCUMENT CONTROL SHEET

Report No:	E7555UK.SCR.02.R01
Issue:	02
Author:	Lloerhian Morgan
(Signature):	
Project Manager/Director:	Simon Hockin
(Signature):	
Date:	19/08/2025

Issue	Status	Date	Author	Reviewer 1	Reviewer 2
01	Issue	19/08/2025	LM	CB	SH
02	Issue	17/10/2025	CB		

TABLE OF CONTENTS

1. INTRODUCTION

This report summarises the results and findings following the ground at UK Remediation Ltd (UKRL), Unit 11a, Hill Barton Business Park, Exeter (hereafter referred to as 'the site'). The findings of the ground investigation presented 'baseline' ground conditions present at the time of UKRLs application to extend their facility to the east (Area C), as illustrated in Appendix A, site layout drawing 'E7555UK.D02'.

The extension is designed to extend the already functional non-hazardous and hazardous soil treatment centre to allow for increased treatment capabilities and capacity.

2. THE SITE

2.1 Site Location

The site is located within the Hill Barton Business Park, off the A3052 to the south-east of Exeter, postcode EX5 1DR. Hill Barton Business Park is used for several industrial activities including; recycling plants, plant hire, inert landfill and tarmac recycling. The site is located at Unit 11a of the Hill Barton Business Park, with an organic processing plant (mainly composting) to the north and the inert landfill entrance to the south.

The site is rectangular in shape that strikes southwest – northeast, with the northwest edge having an open drainage runoff running parallel 1m from the site perimeter.

2.2 Site Description

Area C (see Appendix A) was previously used by Stuarts inert Landfill for stockpiling material. The total area of the extension is 1,526m^2.

The proposed extension will feature a 0.20m-thick concrete slab, levelled to match the existing slab in areas A and B and will house a new Soil Wash Plant at the southern end of the extension.

3. ANTICIPATED GEOLOGY

Prior to the ground investigation, British Geological Survey (BGS) 1:50 000, Bedrock and Superficial Geology was used to determine the anticipated geology. A number of trial pit locations are available on the BGS Interpretive Map, which were used to assume the superficial Geology.

The findings of this Desk Study are presented in Table 1 below:

Table 1. Anticipated Geology

Stratum	Age	Possible Thickness (m)	Typical Description	Aquifer Status
Artificial/Made Ground Concrete Surface with Made Ground sub-surface	10 years	0.5m	N/A	N/A
Superficial Exmouth Mudstone & Sandstone Formation	Triassic	1.5 m to 10 m	Stiff to very stiff brown to red brown, friable, silty CLAY. Occasional fissures, with slightly fine sandy pockets.	Secondary A
Solid Exmouth Mudstone & Sandstone Formation	Triassic	10 m +	Hard red sandstone.	It is not the principal aquifer; however some sandy lenses can contain significant ground water.

3.1 Previous Geo-Environmental Testing on Site

In January 2020, a ground investigation was undertaken in Area B of the site. The investigation comprised five boreholes (BH01–BH05) using a windowless sampling rig. Four were extended to the base of the made ground, while BH02 was advanced to a depth of 6.75mbgl and installed with a slotted piezometer pipe to facilitate ongoing gas monitoring. Borehole locations are shown in Appendix B, drawing ‘E2776UK.003’.

Targeted, representative chemical samples were collected from the made ground in each borehole. In addition, one sample was obtained from the natural ground in BH02.

With the exception of BH02, all boreholes were drilled through a 200mm-thick concrete layer, which contained sparse 5mm rebar and a basal membrane. The concrete and underlying made ground were consistent across all locations where it was encountered.

A summary of the encountered geology is provided in Table 2.

Table 2: Encountered Geology Summary. Area C 2020.

Stratum	Upper Horizon of Stratum (mbgl)	Lower Horizon of Stratum (mbgl)	Description
Concrete Pad	0	0.2	Concrete with rebar
Made Ground	0.2	0.7	Sandy gravel with concrete crush and brick
Made Ground	0.7	5.7	Med - Firm Brown Sandy Reworked Clay
Superficial Geology - Exmouth Mudstone and Sandstone Formation	5.7	Not Encountered	Firm to Stiff red clay
Bed Rock - Exmouth Mudstone and Sandstone Formation	Not Encountered	-	-

Key findings from the investigation included:

- No concentrations of contaminants exceeded screening criteria for commercial end use.
- No asbestos was detected or encountered during the investigation.
- Boreholes BH03, BH04, and BH05 (a & b), located partially within the current extension area, identified ground conditions consistent with those within the existing UKRL site boundary.

- Groundwater analysis from BH02 indicated acceptable concentrations, with no evidence of pollutant linkages to the watercourse located north of the site.

4. GROUND INVESTIGATION

4.1 Dynamic Probe Samples

UKRL commissioned Jackson Drilling to carry out 13 dynamic probe (DP) exploratory holes to a maximum depth of 5.0m within the proposed extension area. The locations of these holes are shown in drawing 'E7555UK.D15', and the corresponding logs are provided in Appendix C.

4.2 Trial Pits

Seven trial pits (TPs) were excavated, with their locations shown in 'E7555UK.D13' (Appendix D). All trial pits were excavated to a maximum depth of 1.6mbgl. Made ground was encountered in all trail pits as well as firm dark reddish brown sandy gravelly clay at a depth of 0.75mbgl.

The water table was encountered in TP7 at 1.3mbgl, accompanied by a mild organic malodour at 1.6mbgl within TP3 and TP6. No odours were observed at any of the other TPs.

Nine composite soil samples were collected from varying depths between 0.3m and 1.6m, from trial pits, and subsequently tested for TPH, PAH, heavy metals, BTEX, and asbestos quantification. These results were screened against the commercial generic assessment criteria, resulting in one exceedance of TPH Aliphatic EC12-16 (101mg/kg), observed in TP6 at 1.6mbgl. No other soil exceedances were observed. These results can be found in Appendix D.

4.3 Groundwater

Three groundwater monitoring rounds were undertaken, at WS01, location illustrated in drawing 'E7555UK.D10' (Appendix E). WS01 was drilled to 4.00mbgl. These results were screened against the Environmental Quality Standards (EQS) and Groundwater standards as stated in the Water Framework Directive (2015). The table below shows the contaminants which exceeded the EQS and/or minimum groundwater threshold value (TV) of the three monitoring rounds.

Table 3: Exceedances of contaminants in the groundwater during the monitoring rounds

Contaminant	Monitoring Round 1 (µg/l)	Monitoring Round 2 (µg/l)	Monitoring Round 3 (µg/l)	EQS/ TV
Lead	1.7	-	-	EQS and TVs
Zinc	34	90	34	TVs
Anthracene	0.09	-	0.09	TVs
Fluoranthene	0.21	0.09	0.21	EQS
Benzo(a)anthracene	0.09	-	0.09	TVs
Benzo(k)fluoranthene	0.05	0.02	0.05	EQS
Benzo(a)pyrene	0.07	0.06	0.07	EQS
Benzo(ghi)perylene	0.05	0.04	0.05	EQS

Following the first monitoring round, an exceedance of lead was observed (1.7µg/l), exceeding the EQS and minimum groundwater threshold value (TV). Zinc exceeded groundwater TVs in each monitoring round, measuring 34µg/l (monitoring round 1), 90µg/l (monitoring round 2), and 92µg/l (monitoring round 3). Anthracene exceeded the minimum TV groundwater standard in the first (0.09µg/l) and third (0.07µg/l) monitoring rounds. Fluoranthene exceeded the EQS in all three monitoring rounds: 0.21µg/l (monitoring round 1), 0.09µg/l (monitoring round 2), and 0.27µg/l (monitoring round 3). Benzo(a)anthracene exceeded the minimum and maximum groundwater TVs in monitoring round 1 (0.09µg/l) and 3 (0.05µg/l). Benzo(k)fluoranthene exceeded the EQS in all three monitoring rounds (0.05µg/l, 0.02µg/l, 0.05µg/l). Benzo(a)pyrene exceeded the EQS, minimum and maximum groundwater standards in all monitoring rounds (0.07µg/l, 0.06µg/l, and 0.07µg/l). Benzo(ghi)perylene exceeded the EQS in all monitoring rounds (0.05µg/l, 0.04µg/l, and 0.08µg/l).

There were no total petroleum hydrocarbon (TPH) or BTEX (benzene, toluene, ethylbenzene, xylene) exceedances in any of the monitoring rounds.

4.4 Plate Load Testing

Six plate load tests were undertaken on the proposed extension area, illustrated in drawing 'E7555UK.D16' (Appendix F). The lowest CBR value of 0.9% was recorded at PLT05, while the highest value of 11% was observed at PLT04 and PLT01. The results for the plate load testing can also be found in Appendix F.

5. CONCLUSION

UKRL undertook an intrusive ground investigation to investigate the ground conditions of Exeter Treatment Facility, at Hill Barton Business Park, Exeter. 13 dynamic probe tests were undertaken in the proposed extension area. Seven trial pits were excavated, and nine composite samples were taken of the strata within these pits. Three groundwater samples were collected and tested from WS01 (fortnightly). Six plate load tests were completed on the proposed extension area. To conclude there were EQS and groundwater threshold value exceedances in Lead, Zinc and PAHs, as well as a TPH Aliphatic EC12-16 exceedance in the soil from TP6.

APPENDIX A – E7555UK.D02.REV1: SITE LAYOUT

Walton

Distribution

DK

SVD

NORTH

Site entrance

Monitoring Point 1

WC Facilities

Site Office

Domestic Waste

Weighbridge

Permit Boundary

Bunded Boundary

Soil Wash Plant
(Present)

UKRL Treatment Facility

Water treatment plant

Drain

Monitoring Point 4

Site exit

Area B Sump

Topsoil /
Aggregate
Recovery

Monitoring Point 2

General Waste
Skips

Screening Area

UKRL Boundary
Extension

Liquid
collection pit

Area C Sump

Soil Wash Plant
(Future)

7

6

5

4

3

2

1

Treatment Bays

Exclusion
zone
shed

Exclusion
zone
entrance/exit

Wheel wash cleaning area

Asbestos
picking
exclusion
zone

Decontamination unit

Quarantined
ACM

ACM stockpile for
treatment

Treated
material

UKRL Boundary
Extension

Stack Location
X = 300462.827
Y = 91069.567

Monitoring Point 3

36.78

36.81

36.79

0 5 10 Meters

UKRemediation Ltd

3b Greystoke Business Centre,
Highstreet,
Portishead,
BS20 6PY,

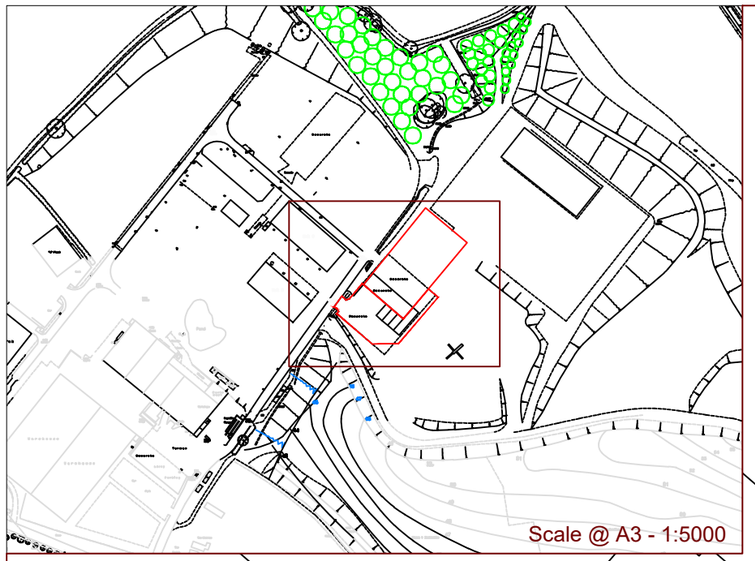
Drawing Title:
E7555UK.D02.R4 - Site Layout

Drawing Number: E7555UK.D02.R4
Project Number: E7555UK

Client:
UKRL

Scale @ A0: Displayed
Date: 10/10.2025
Drawn: CB

APPENDIX B – BOREHOLE LOCATIONS: E2776UK.003 - SITE CONDITION SI LOCATIONS



N

UKRL - Current Site Boundary

BH2 (DEEP)

BH1

Concrete

Concrete

BH4

BH5

Concrete

BH3

UKRL Proposed Site Extension Boundary

0 25 50 Meters

Scale @ A3 - 1:500

Area:

UKRL Current Area : 3 ,503m^2

Proposed Extension Area : 2,000m^2

Total Proposed Area : 5,503m^2

UK Remediation Ltd

3b Greystoke Business Centre,
Highstreet,
Portishead,
BS20 6PY,
T: 01179 244 990
E: enquiries@ukremediation.co.uk
W: www.ukremediation.co.uk

Drawing Title: Site Condition SI Locations		
Drawing Number: E2424UK.002	Project Number: E2424UK	
Client: Internal Use		
Scale @ A3: 1:500	Date: 08/01/20	Drawn: TC

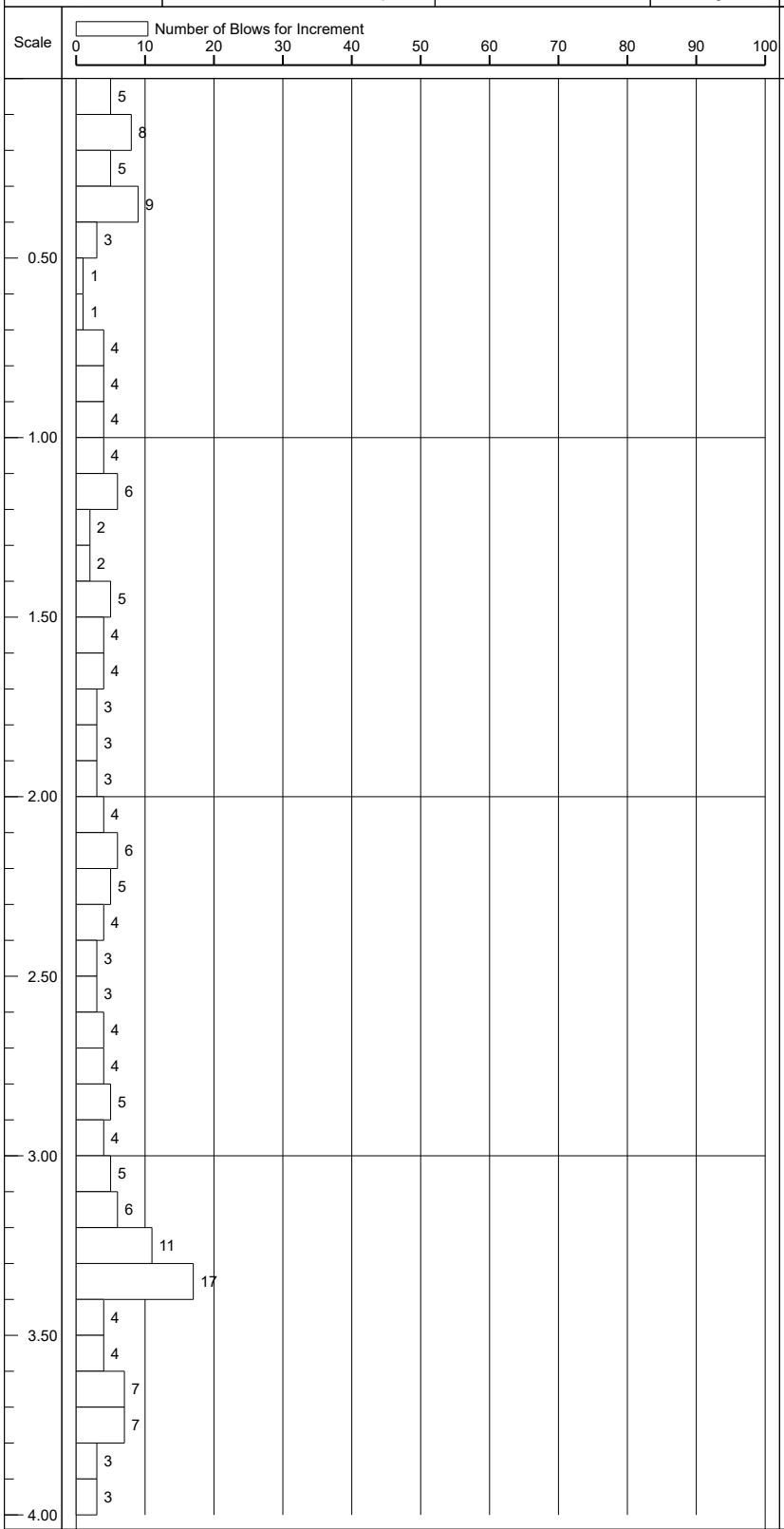
APPENDIX C – E7555UK.D15: DYNAMIC PROBE SAMPLE LOCATIONS AND RESULTS

Drawing E7555UK.D15

DYNAMIC PROBE EXPLORATORY HOLE LOG

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP01
27/03/2025 08:30	0.00		
27/03/2025 09:00	5.00	1	

Project	Exeter Treatment Centre	**Equipment**	16R-A'way Heavyweight	Sheet 1 of 2	
Client	UK Remediation	**Method**	DP	**Scale**	1:20
Project No	G25039 **Level**	**Test Reference**	1	**Operator**	LM/JS
Easting	**Northing**	**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth	**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
10					
3					
3					
3					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

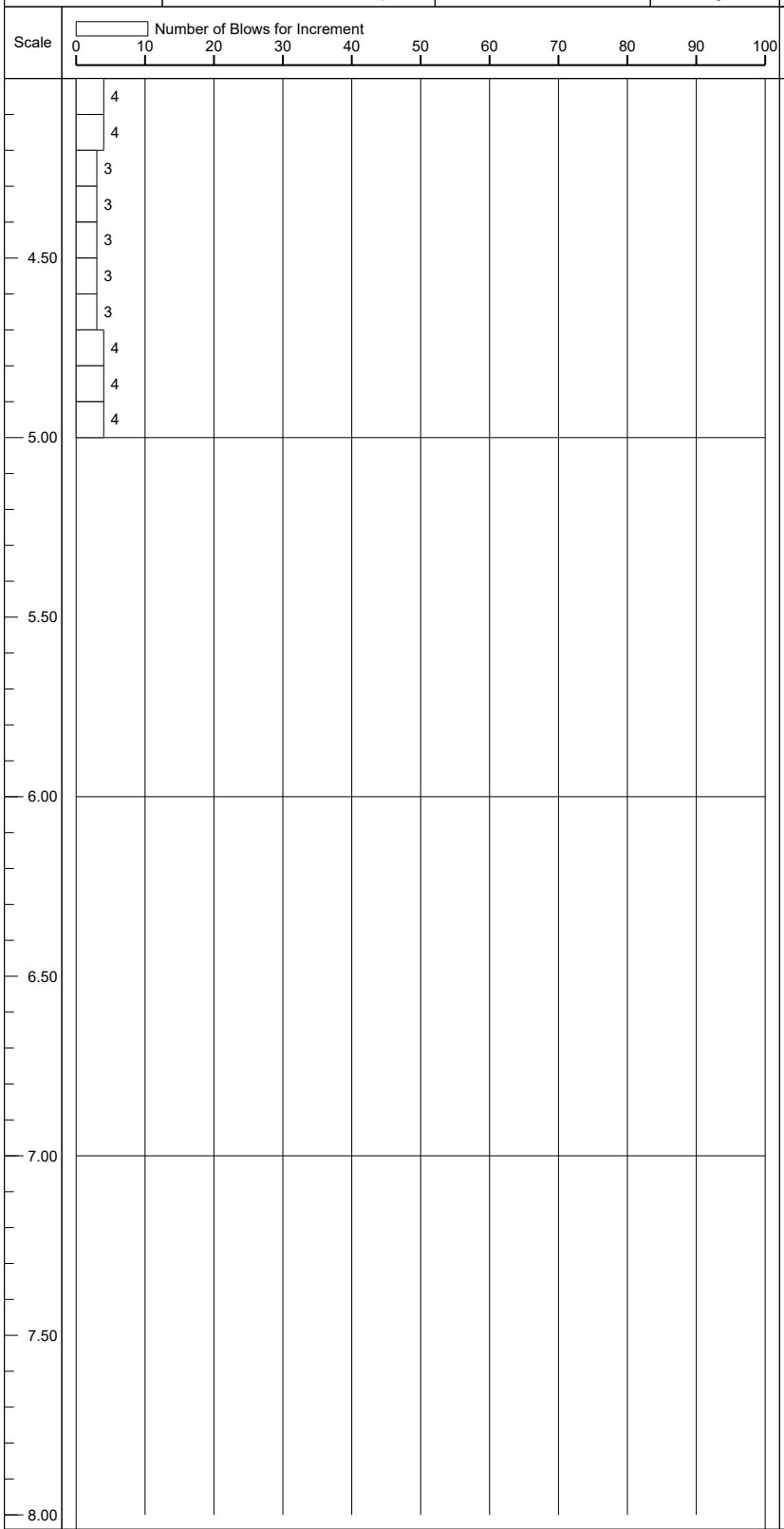
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP01
27/03/2025 08:30	0.00		
27/03/2025 09:00	5.00	1	

Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	Sheet 2 of 2	
Client	UK Remediation			**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Test Reference**	1	**Operator**	LM/JS
Easting		**Northing**		**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
3					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

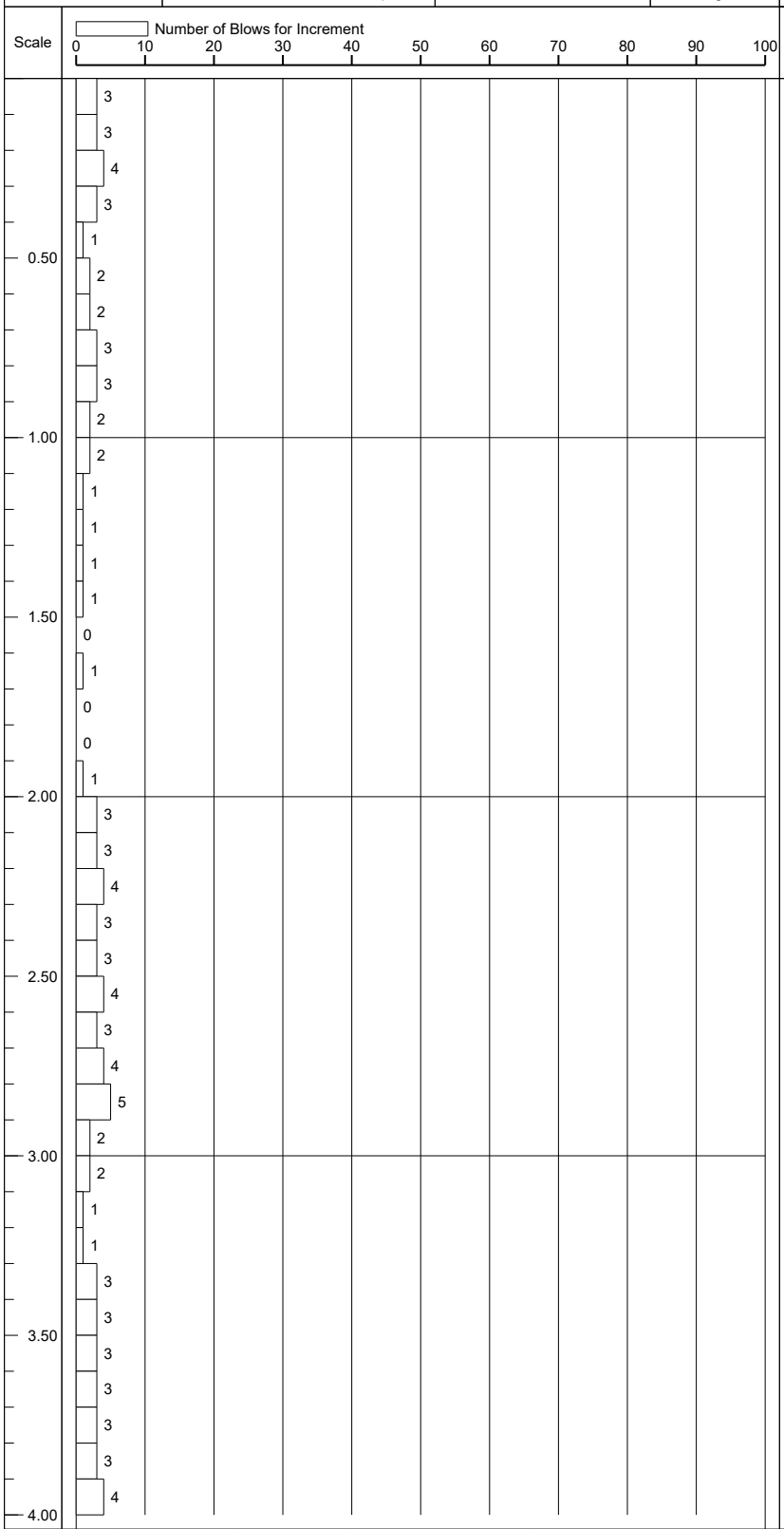
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP02
27/03/2025 09:05	0.00		
27/03/2025 09:30	5.00	1.5	

Project	Exeter Treatment Centre	**Equipment**	16R-A'way Heavyweight	Sheet 1 of 2	
Client	UK Remediation	**Method**	DP	**Scale**	1:20
Project No	G25039 **Level**	**Test Reference**	1	**Operator**	LM/JS
Easting	**Northing**	**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth	**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
0					
10					
10					
39					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

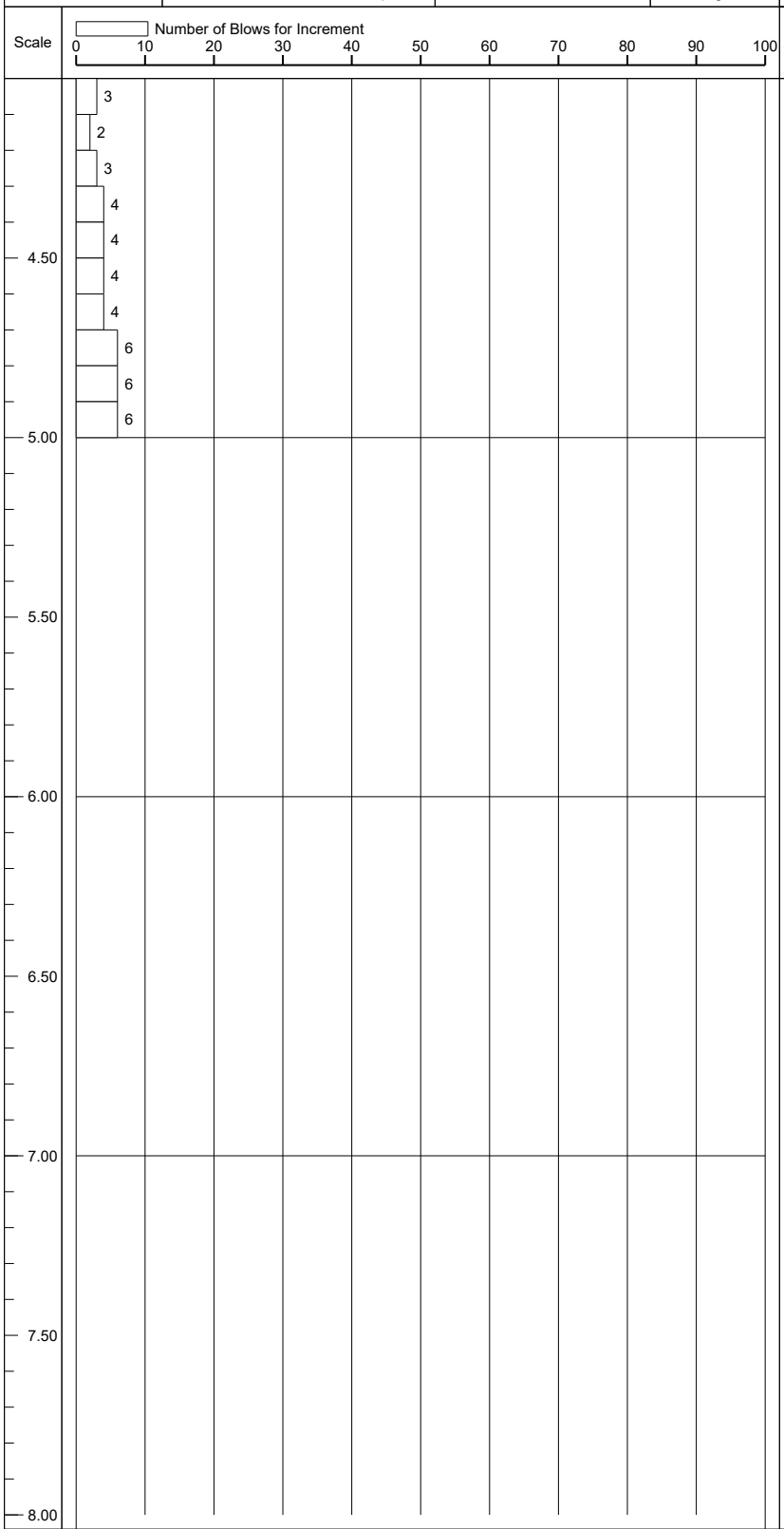
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP02
27/03/2025 09:05	0.00		
27/03/2025 09:30	5.00	1.5	

Project	Exeter Treatment Centre		**Equipment**	16R-A'way Heavyweight	Sheet 2 of 2
Client	UK Remediation		**Method**	DP	**Scale** 1:20
Project No	G25039	**Level**	**Test Reference**	1	**Operator** LM/JS
Easting		**Northing**	**Probe Type**	DPSH-B	**Logged** LM
Termination Reason	Terminated at scheduled depth		**Inclination**	90 degrees	**Checked** AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
20					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

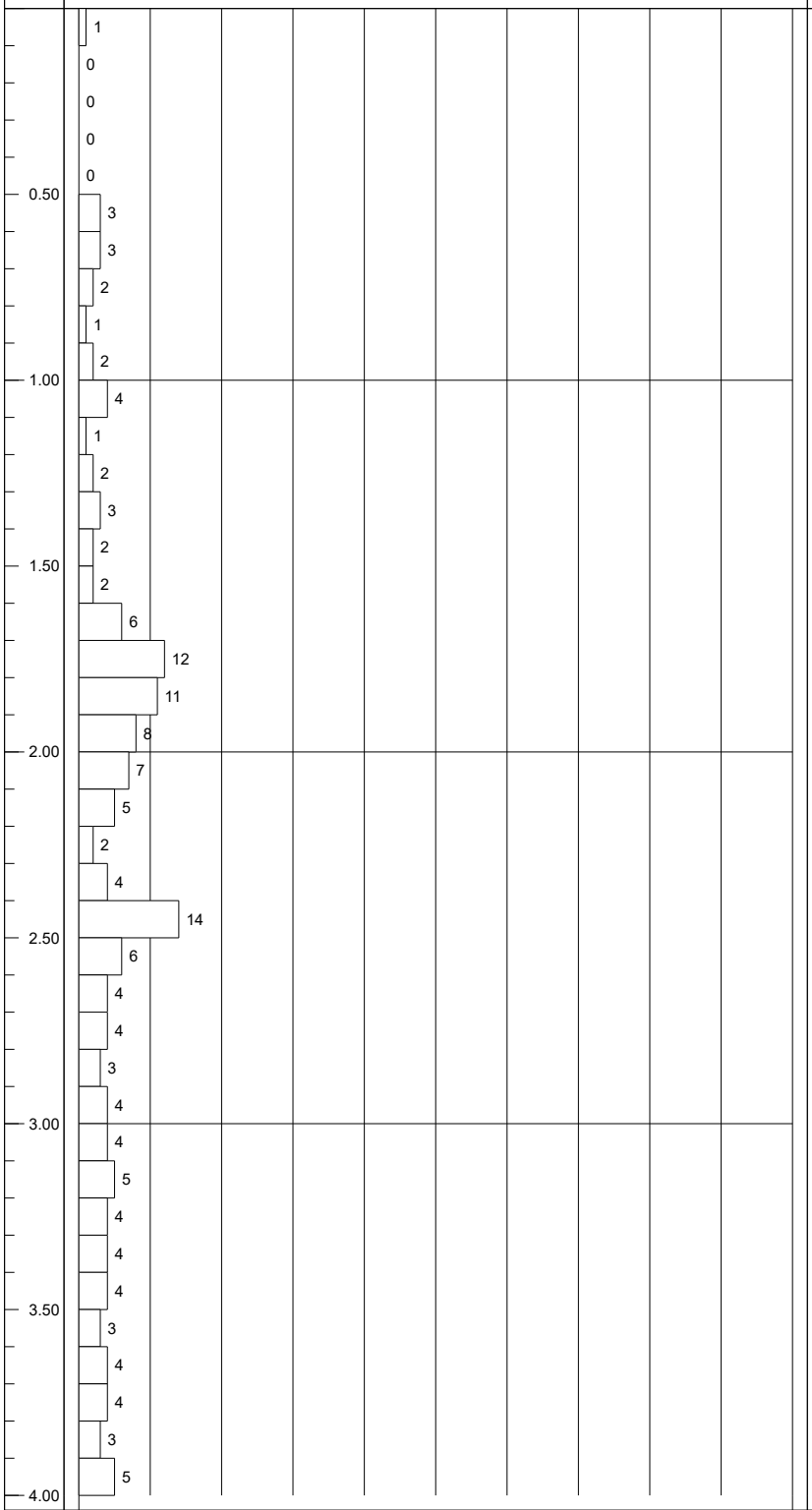
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP03
27/03/2025 09:35	0.00	Dry	
27/03/2025 10:00	5.00		

Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	Sheet 1 of 2	
Client	UK Remediation			**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Test Reference**	1	**Operator**	LM/JS
Easting		**Northing**		**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
0					
10					
29					
29					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

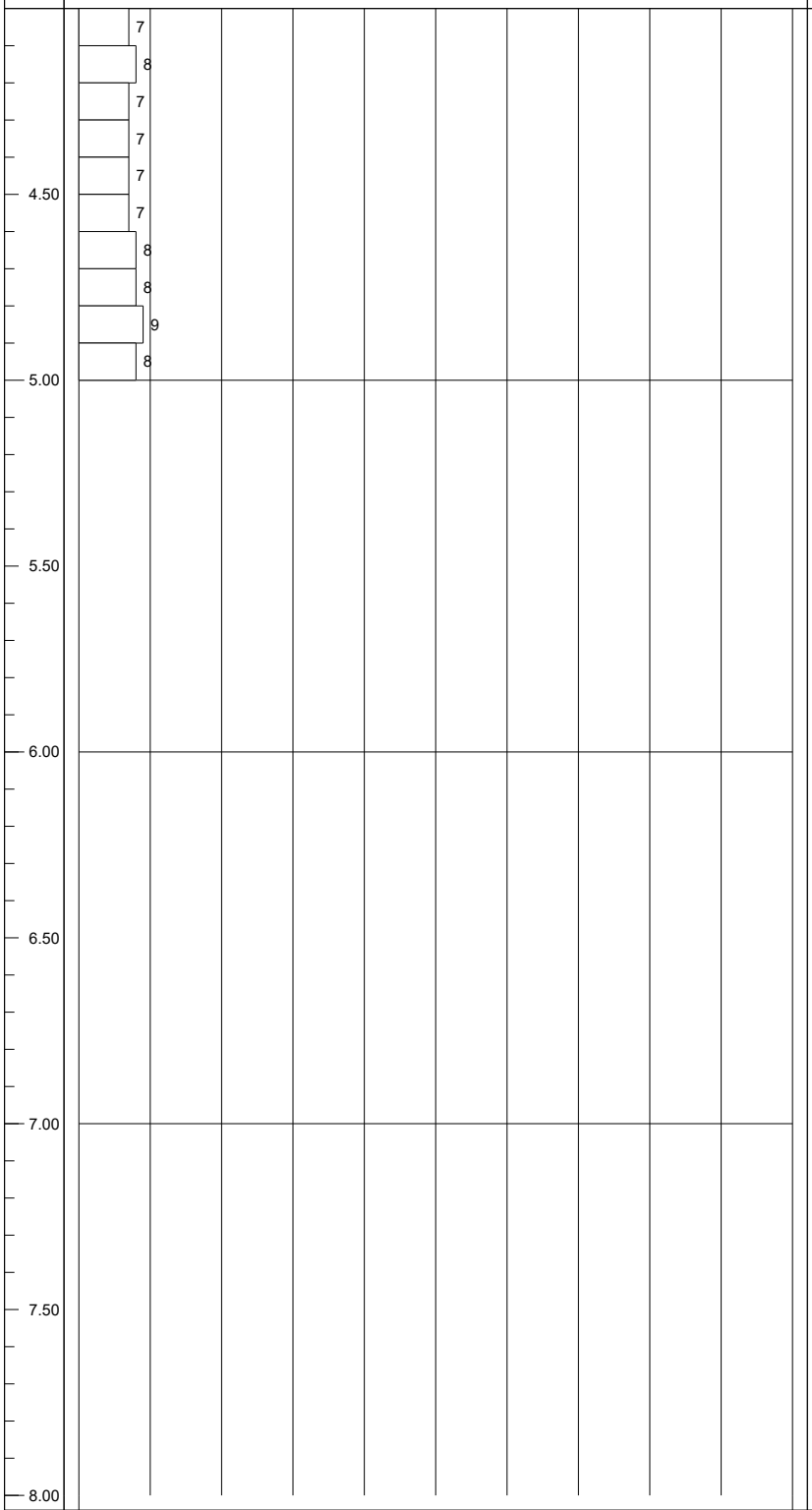
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP03
27/03/2025 09:35	0.00	Dry	
27/03/2025 10:00	5.00		

Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	Sheet 2 of 2	
Client	UK Remediation			**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Test Reference**	1	**Operator**	LM/JS
Easting		**Northing**		**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
20					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

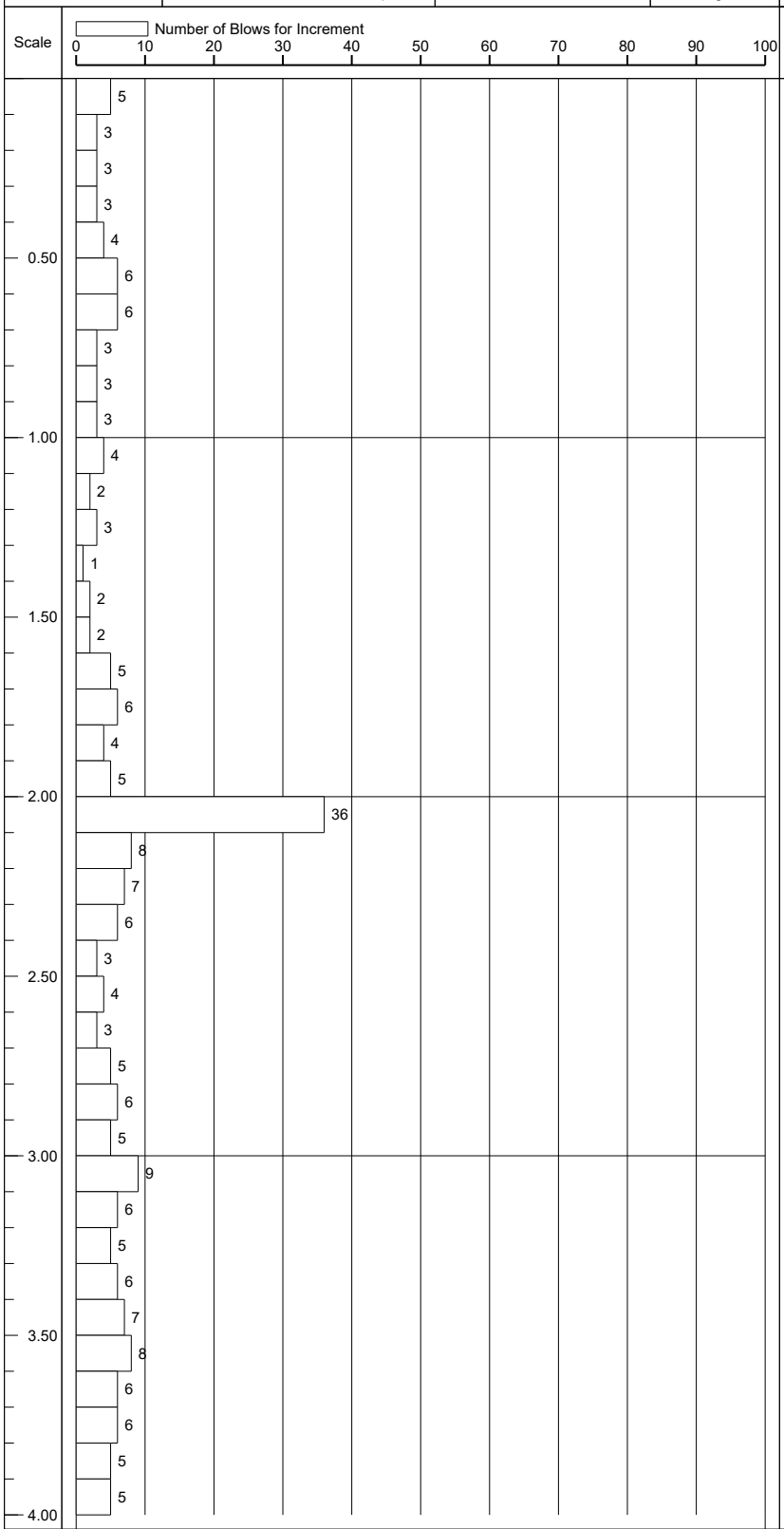
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP04
27/03/2025 10:05	0.00	Dry	
27/03/2025 10:30	5.00		

Project	Exeter Treatment Centre		**Equipment**	16R-A'way Heavyweight	Sheet 1 of 2
Client	UK Remediation		**Method**	DP	**Scale** 1:20
Project No	G25039	**Level**	**Test Reference**	1	**Operator** LM/JS
Easting		**Northing**	**Probe Type**	DPSH-B	**Logged** LM
Termination Reason	Terminated at scheduled depth		**Inclination**	90 degrees	**Checked** AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
0					
10					
88					
69					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

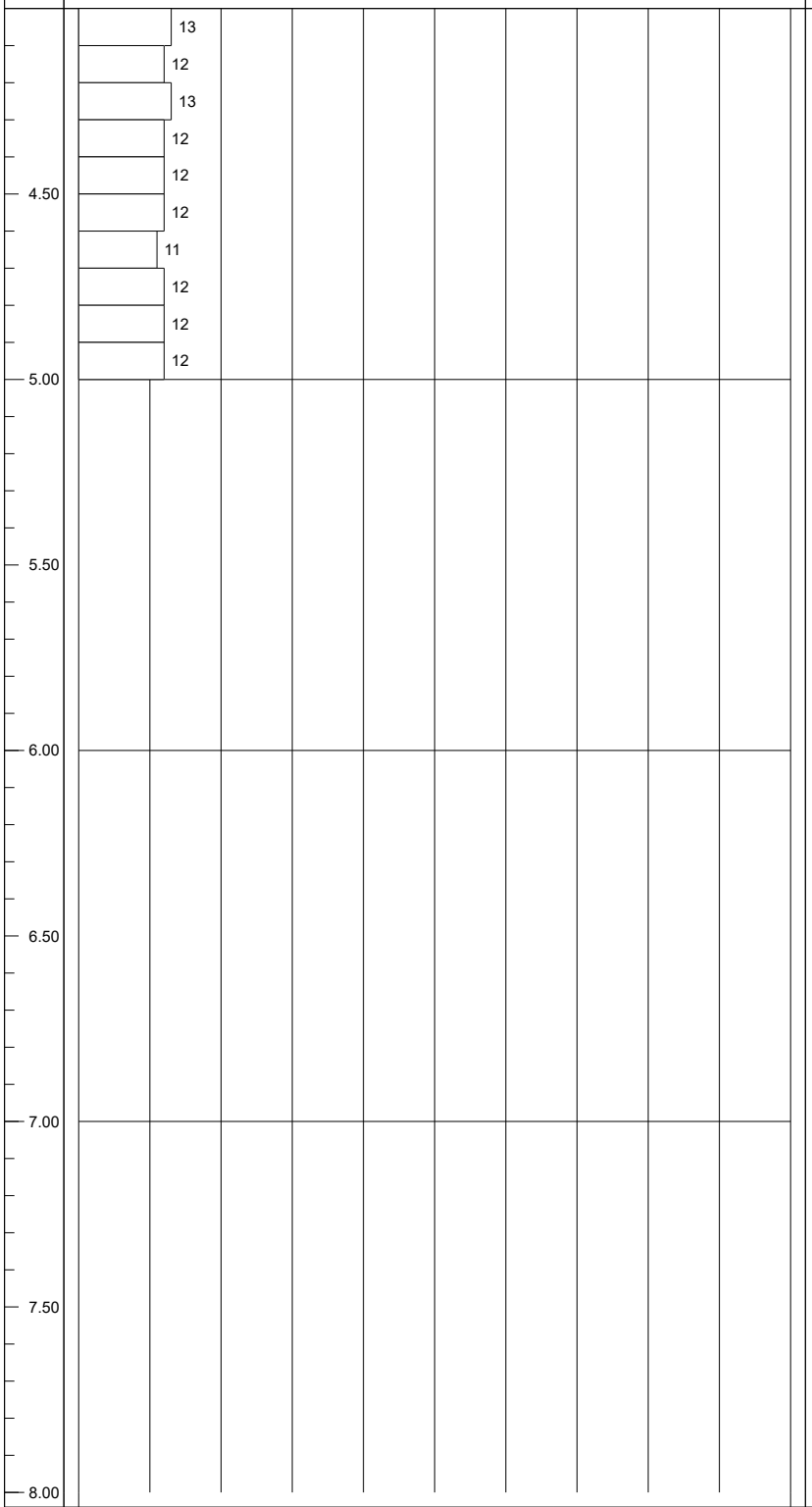
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP04
27/03/2025 10:05	0.00	Dry	
27/03/2025 10:30	5.00		

						Sheet 2 of 2	
Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	**Scale**	1:20
Client	UK Remediation			**Method**	DP	**Operator**	LM/JS
Project No	G25039	**Level**		**Test Reference**	1	**Logged**	LM
Easting		**Northing**		**Probe Type**	DPSH-B	**Checked**	AP
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees		



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
88					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

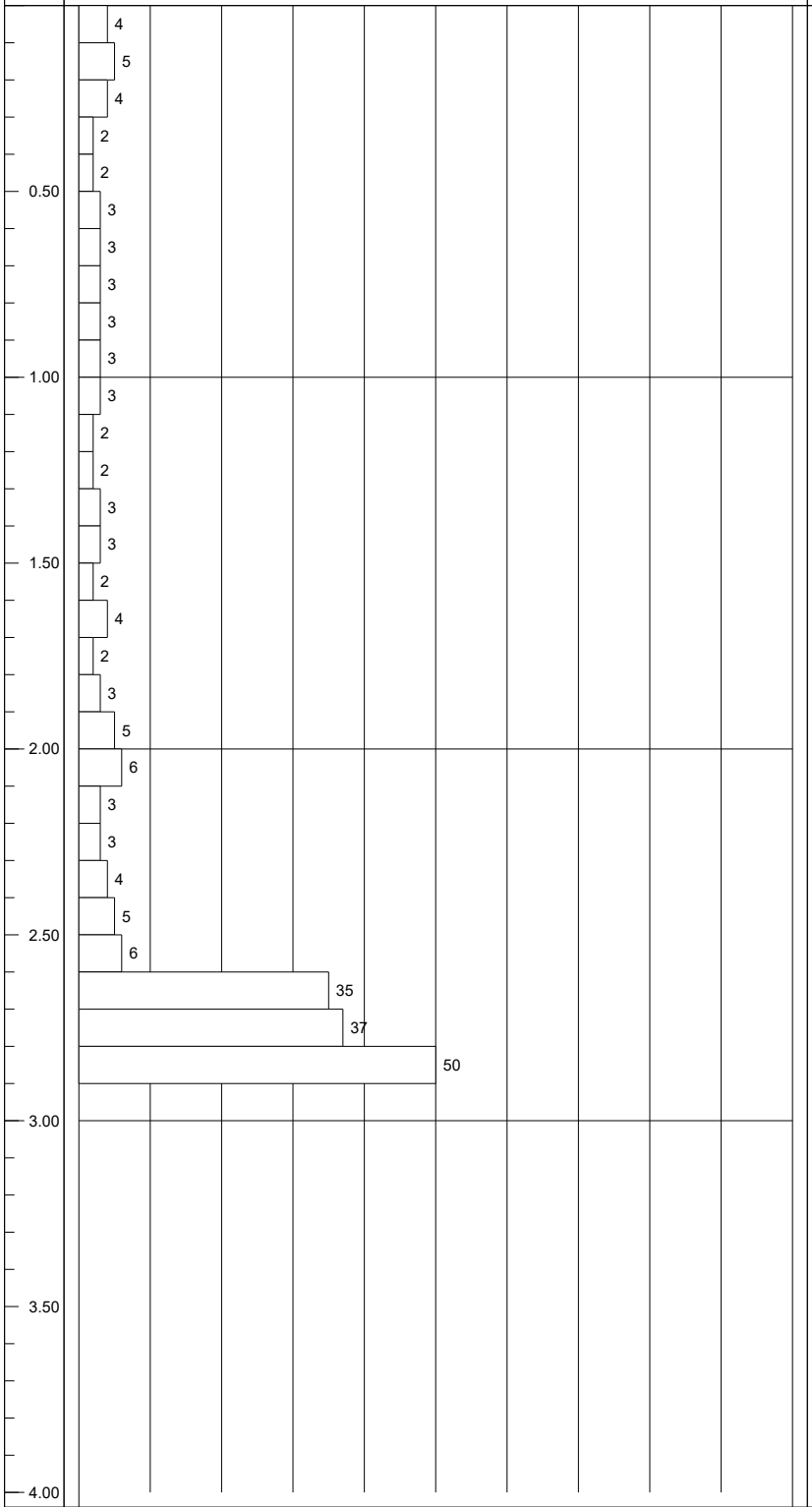
Test method in accordance with BS EN ISO 22476-2.

Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP05
27/03/2025 10:35	0.00		
27/03/2025 11:00	2.90	Dry	

Project	Exeter Treatment Centre	**Equipment**	16R-A'way Heavyweight	Sheet 1 of 1	
Client	UK Remediation	**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Operator**	LM/JS
Easting		**Northing**		**Logged**	LM
Test Reference	1	**Probe Type**	DPSH-B	**Checked**	AP
Termination Reason	Refusal	**Inclination**	90 degrees		



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

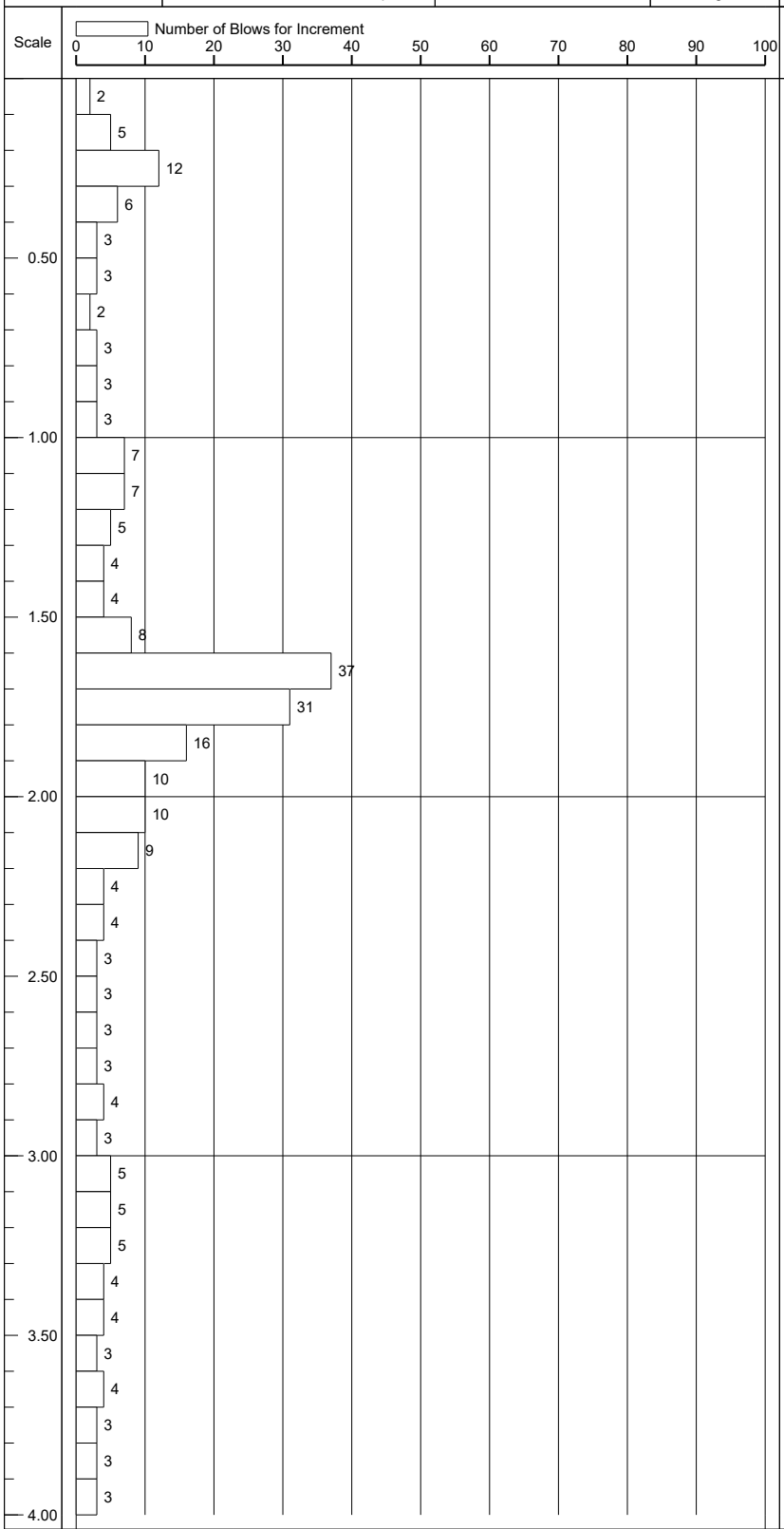
Cone tip adandoned in ground at 5.00m depth.

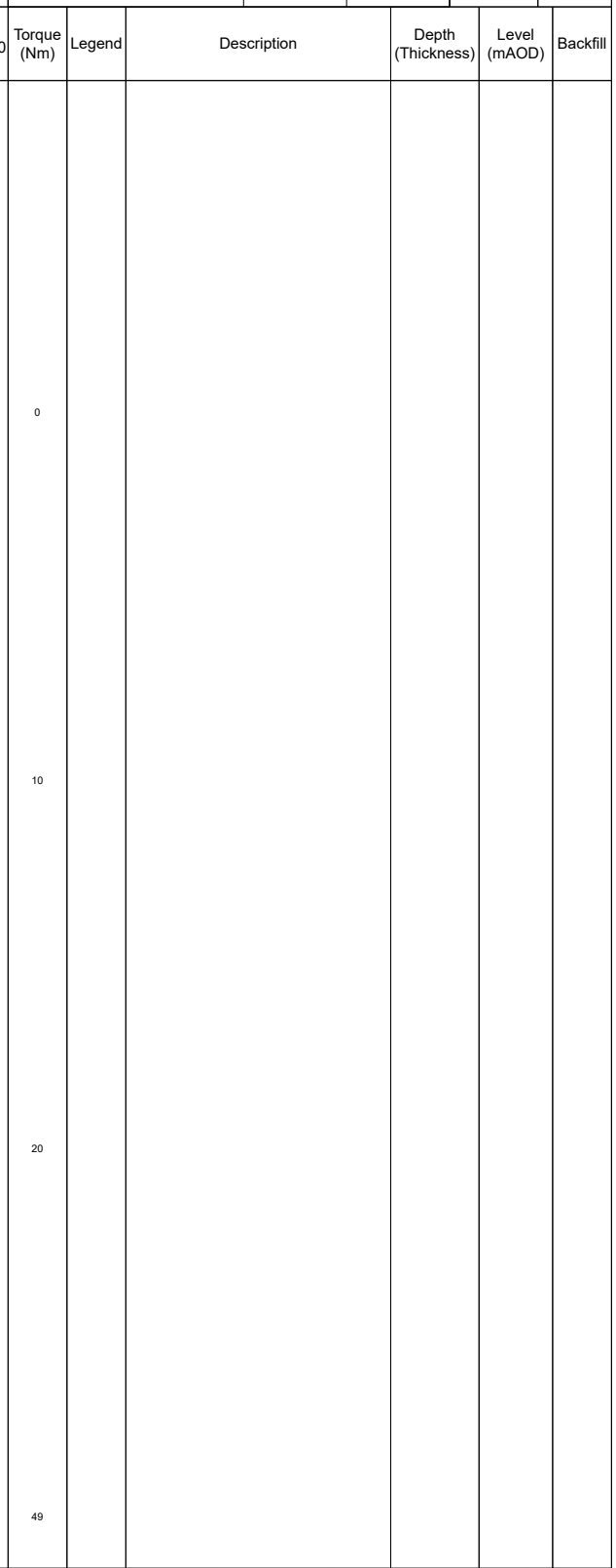
DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP06
27/03/2025 11:05	0.00	Dry	
27/03/2025 11:30	5.00		

Project	Exeter Treatment Centre		**Equipment**	16R-A'way Heavyweight	Sheet 1 of 2
Client	UK Remediation		**Method**	DP	**Scale** 1:20
Project No	G25039	**Level**	**Test Reference**	1	**Operator** LM/JS
Easting		**Northing**	**Probe Type**	DPSH-B	**Logged** LM
Termination Reason	Terminated at scheduled depth		**Inclination**	90 degrees	**Checked** AP





Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

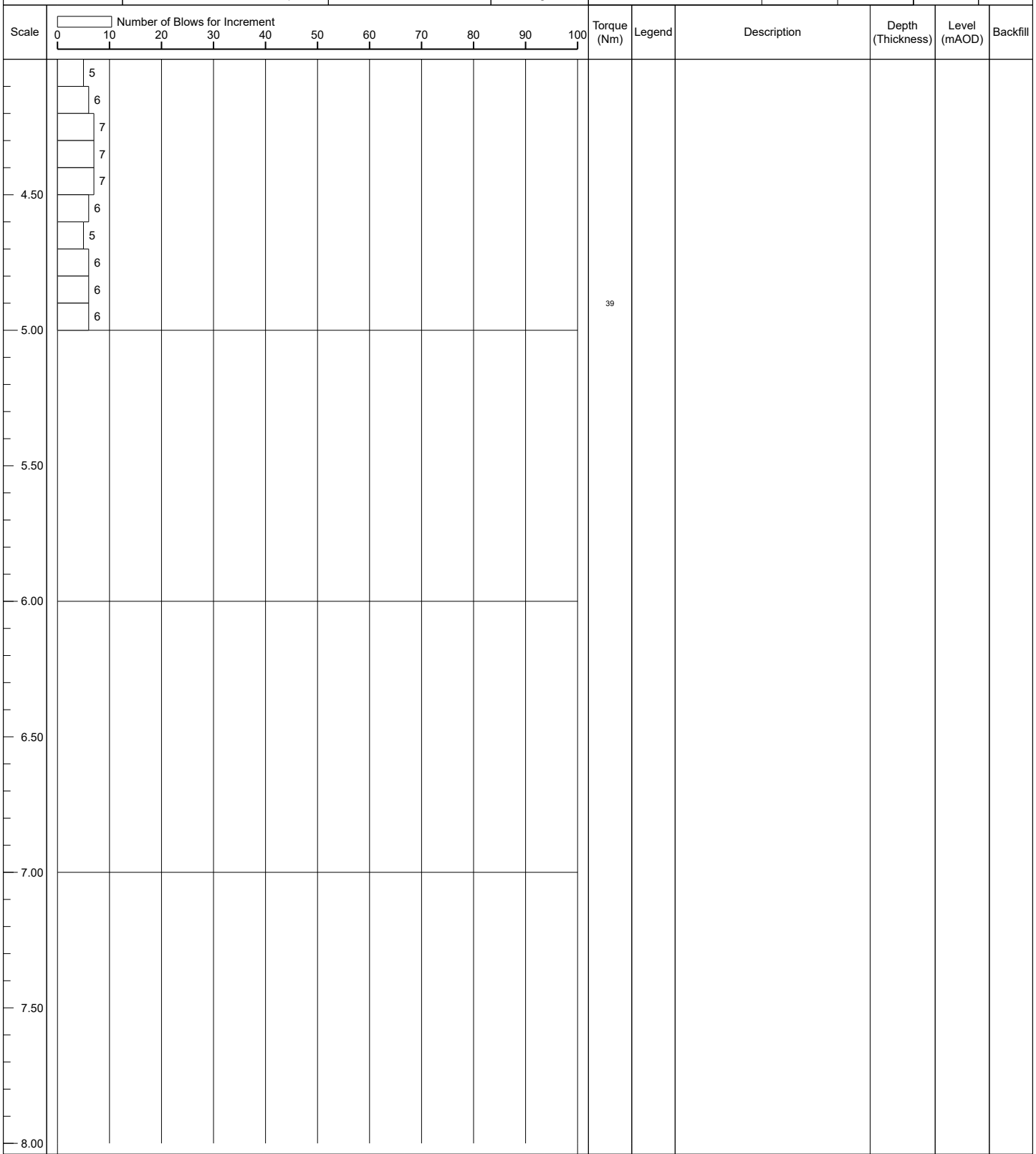
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP06
27/03/2025 11:05	0.00	Dry	
27/03/2025 11:30	5.00		

Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	Sheet 2 of 2	
Client	UK Remediation			**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Test Reference**	1	**Operator**	LM/JS
Easting		**Northing**		**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees	**Checked**	AP



Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

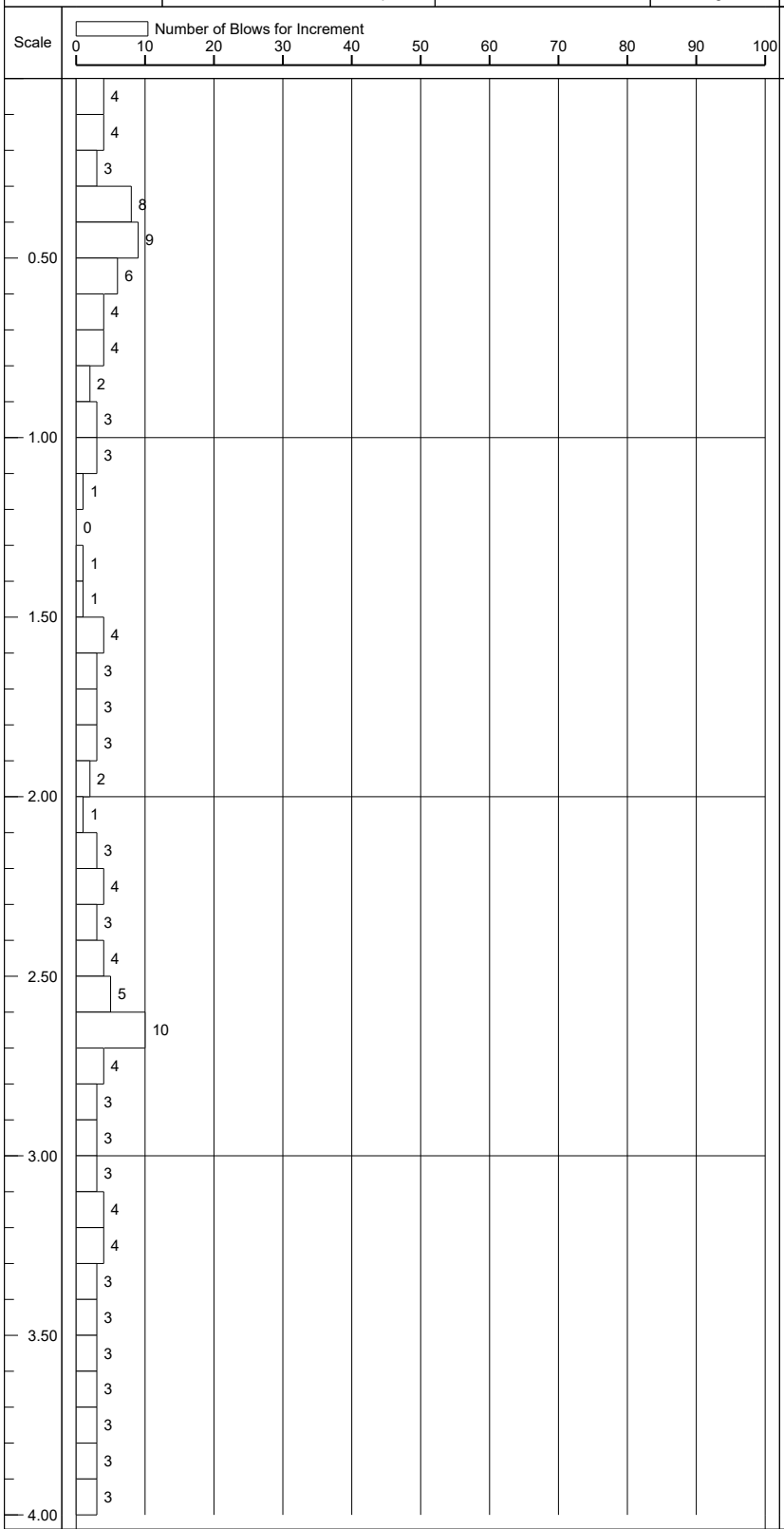
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP07
27/03/2025 11:35	0.00	Dry	
27/03/2025 12:00	5.00		

Project	Exeter Treatment Centre		**Equipment**	16R-A'way Heavyweight	Sheet 1 of 2
Client	UK Remediation		**Method**	DP	**Scale** 1:20
Project No	G25039	**Level**	**Test Reference**	1	**Operator** LM/JS
Easting		**Northing**	**Probe Type**	DPSH-B	**Logged** LM
Termination Reason	Terminated at scheduled depth		**Inclination**	90 degrees	**Checked** AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
0					
6					
10					
20					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

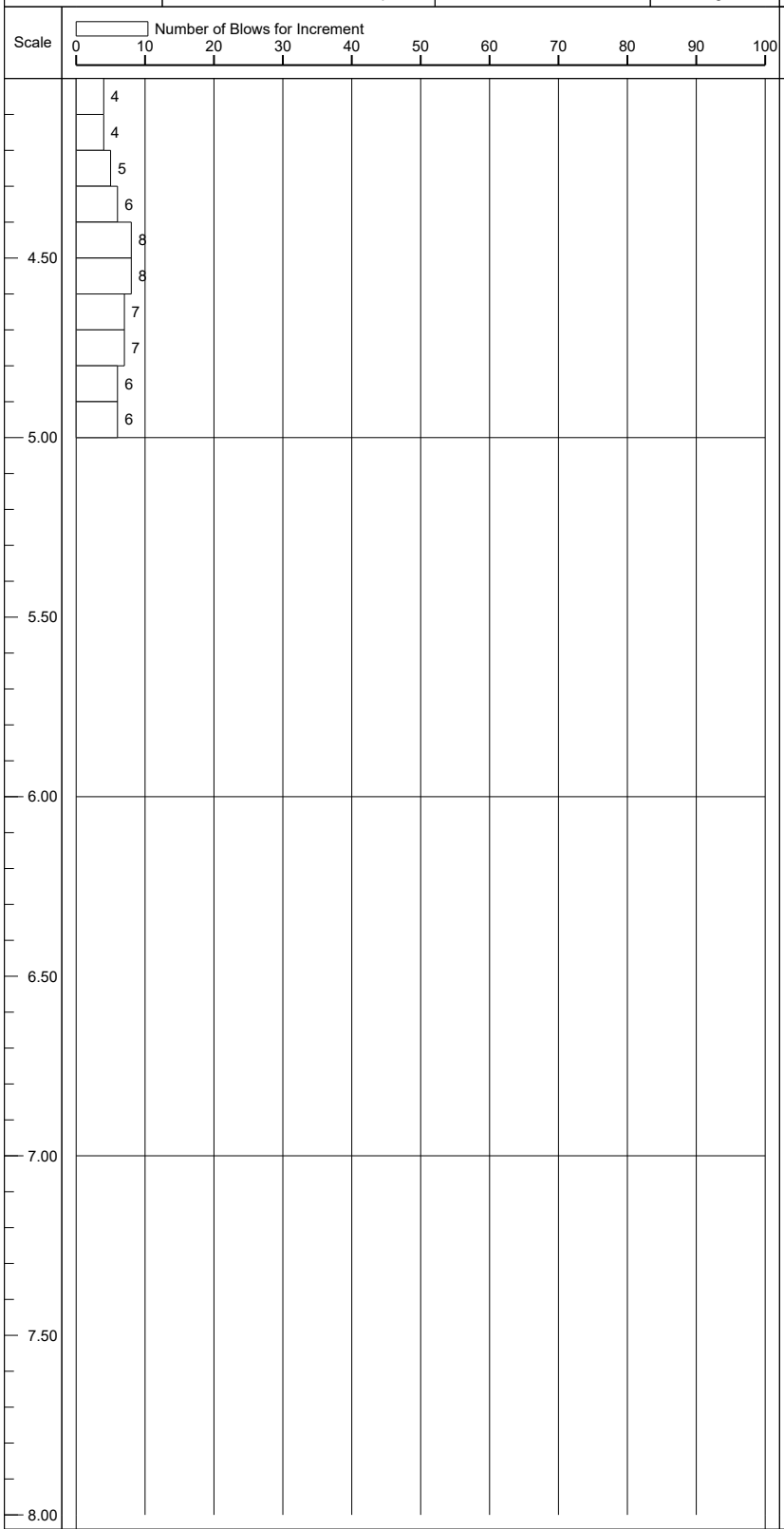
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP07
27/03/2025 11:35	0.00		
27/03/2025 12:00	5.00	Dry	

Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	Sheet 2 of 2	
Client	UK Remediation			**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Test Reference**	1	**Operator**	LM/JS
Easting		**Northing**		**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
29					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

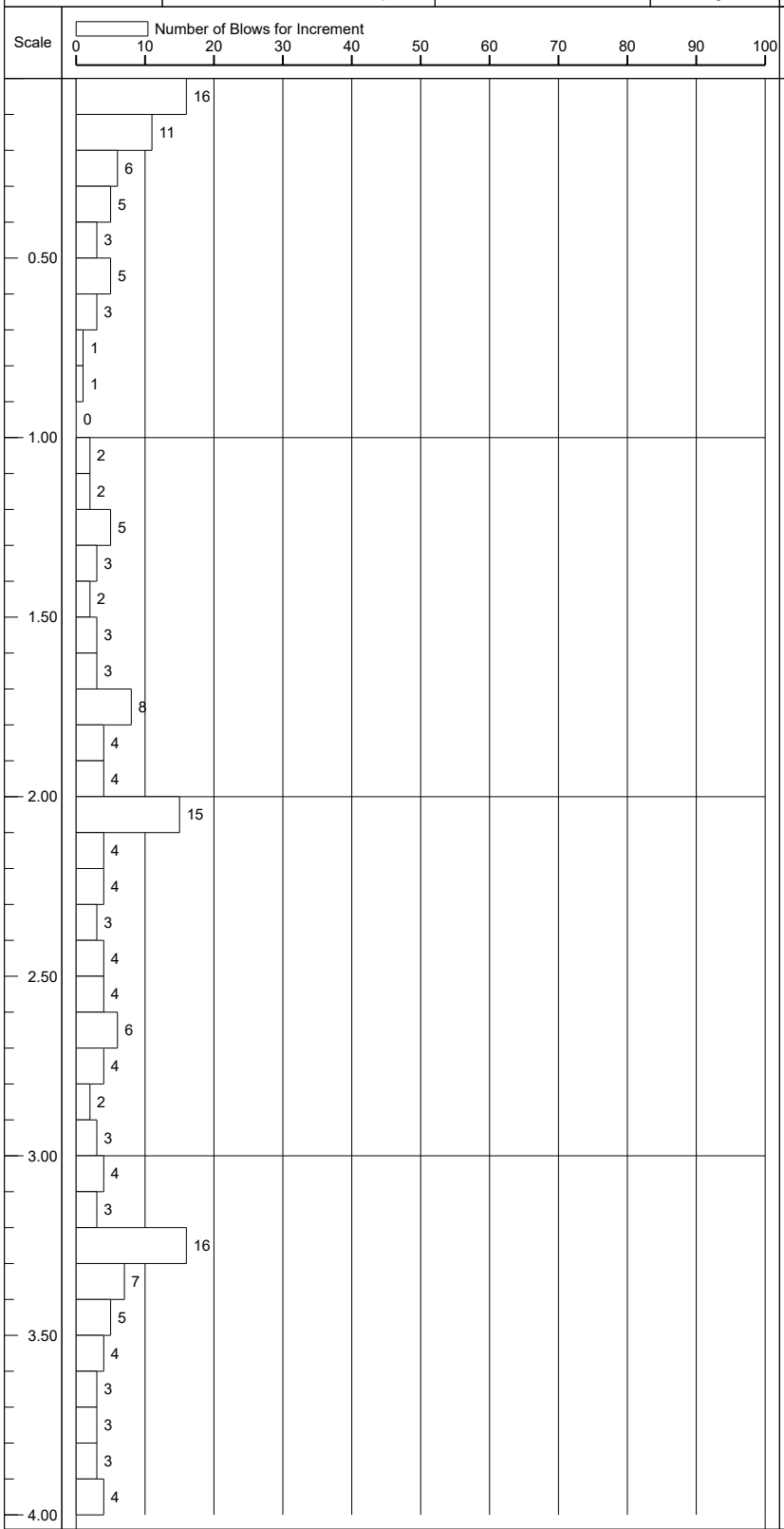
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP08
27/03/2025 13:05	0.00		
27/03/2025 13:30	5.00	2	

Project	Exeter Treatment Centre	**Equipment**	16R-A'way Heavyweight	Sheet 1 of 2	
Client	UK Remediation	**Method**	DP	**Scale**	1:20
Project No	G25039 **Level**	**Test Reference**	1	**Operator**	LM/JS
Easting	**Northing**	**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth	**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
0					
10					
20					
20					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

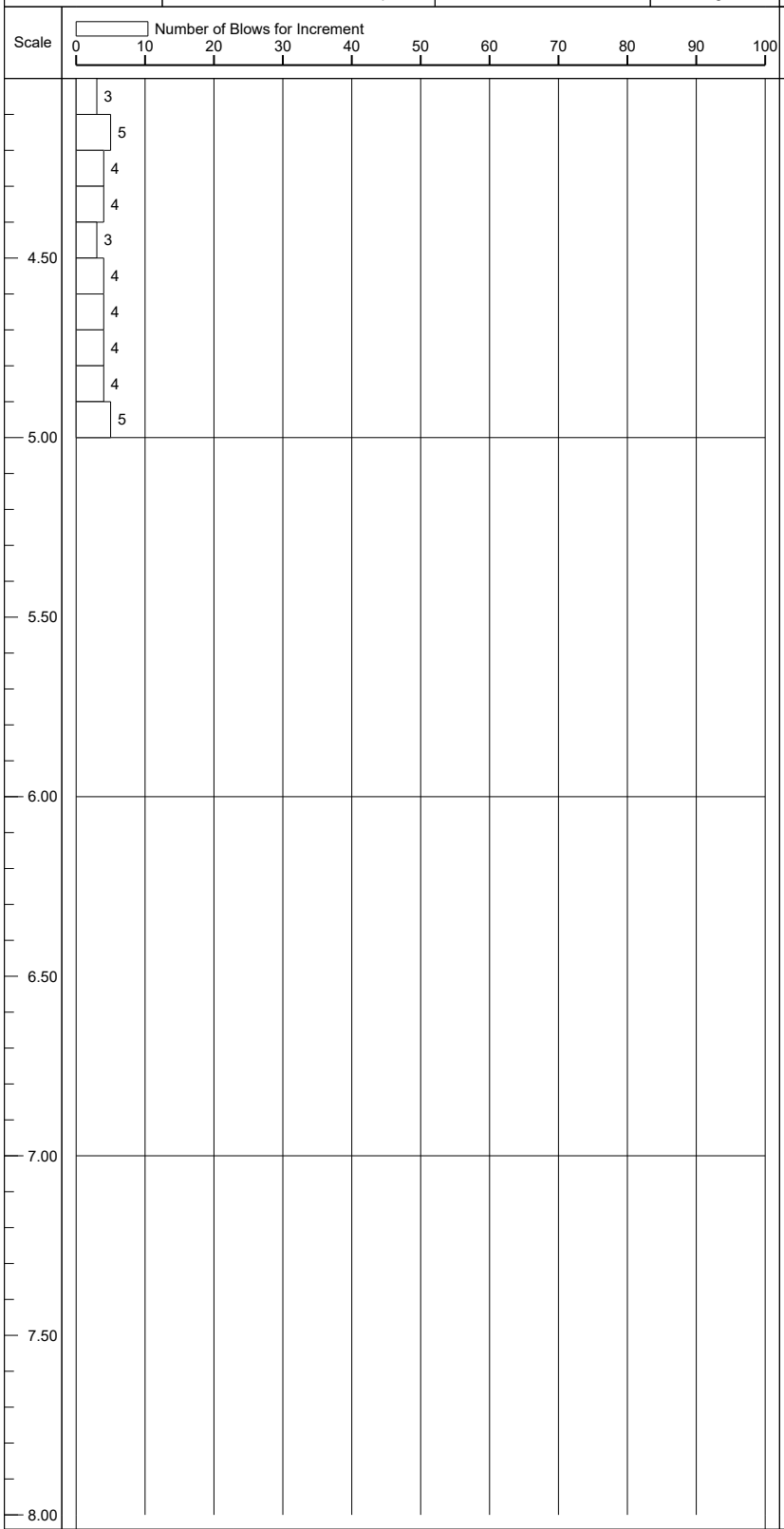
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP08
27/03/2025 13:05	0.00		
27/03/2025 13:30	5.00	2	

Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	Sheet 2 of 2	
Client	UK Remediation			**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Test Reference**	1	**Operator**	LM/JS
Easting		**Northing**		**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
49					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

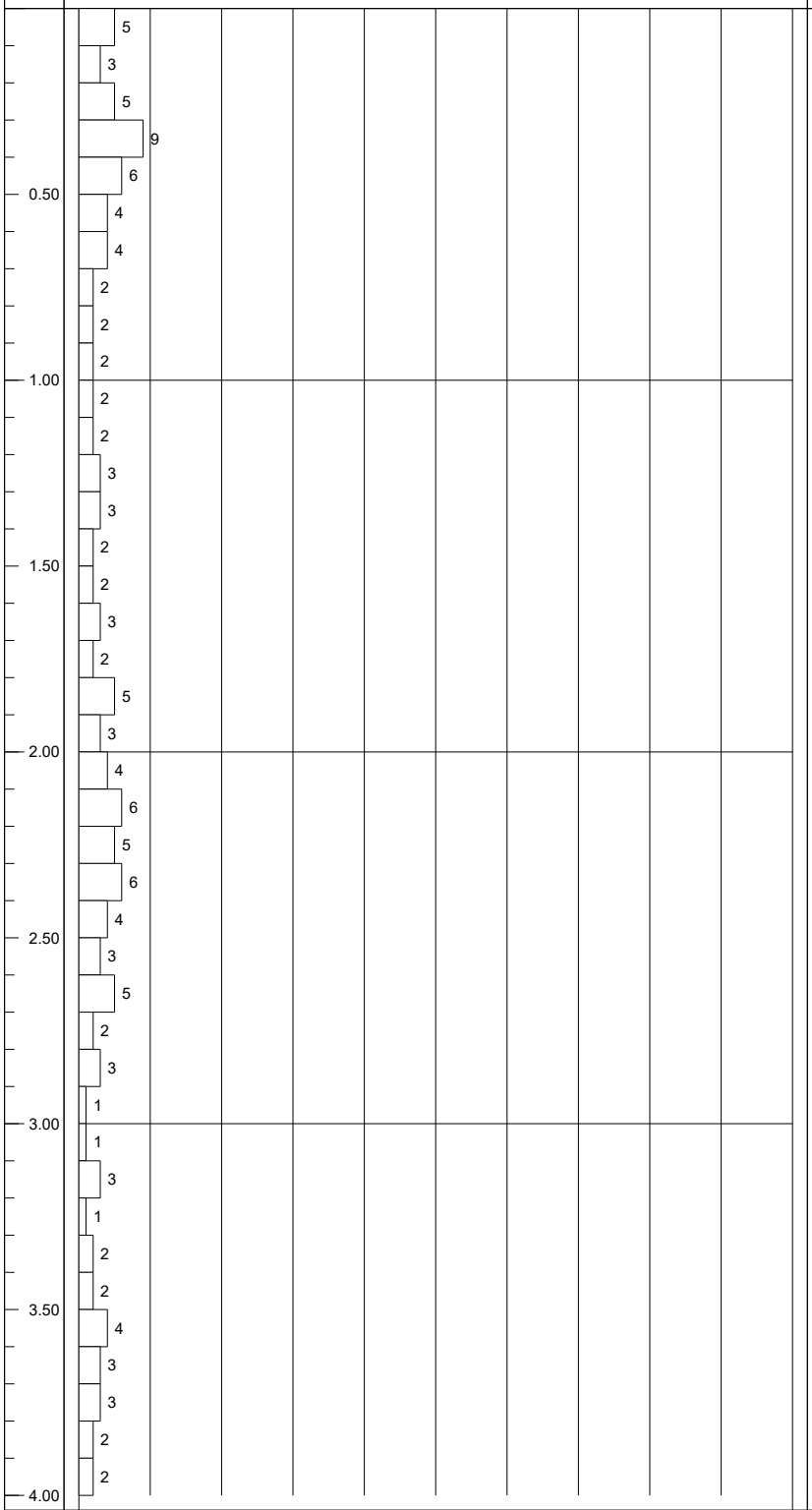
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP09
27/03/2025 13:35	0.00		
27/03/2025 14:00	5.00	2	

Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	Sheet 1 of 2	
Client	UK Remediation			**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Test Reference**	1	**Operator**	LM/JS
Easting		**Northing**		**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
0					
10					
49					
20					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

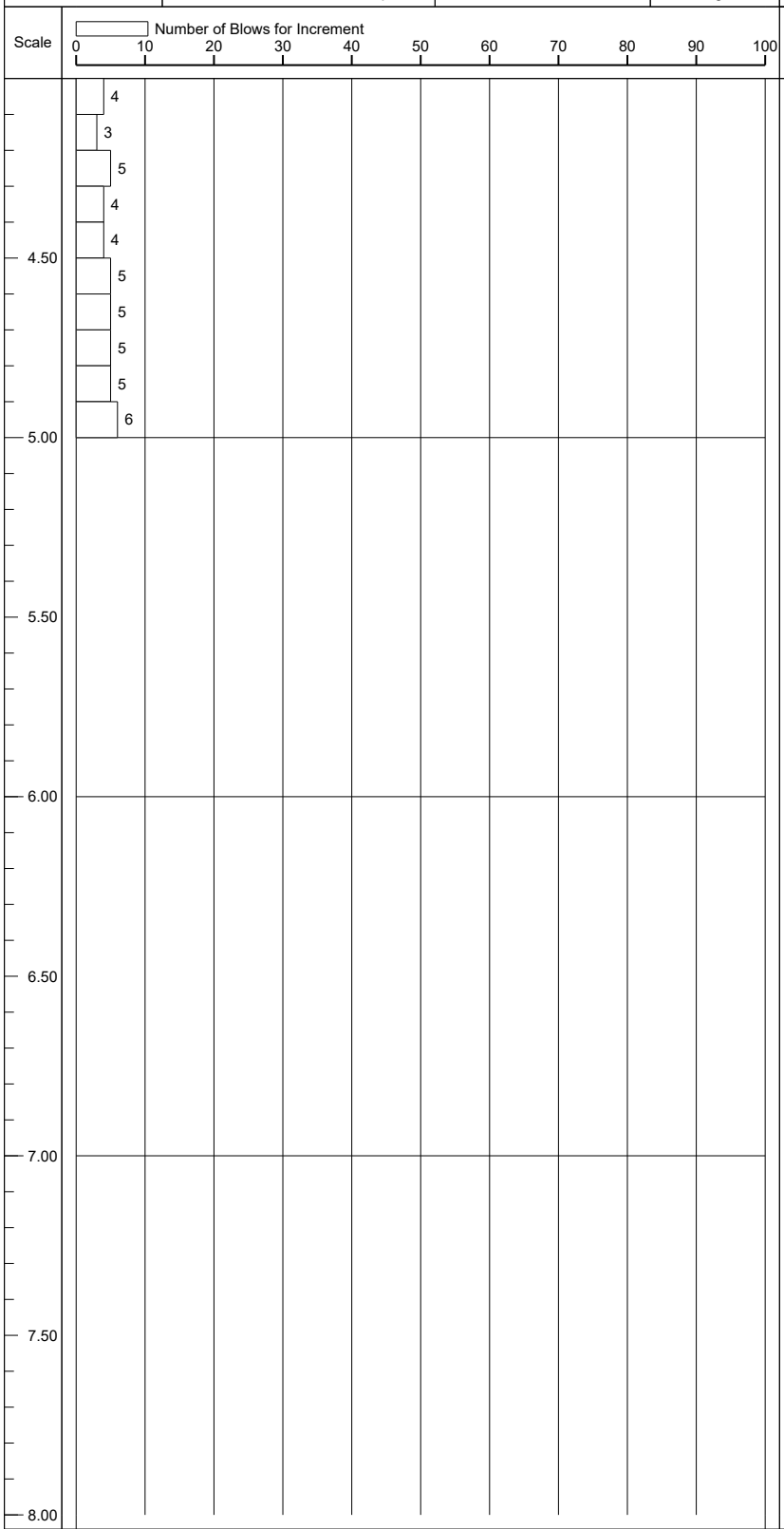
Cone tip adandoned in ground at 2.90m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP09
27/03/2025 13:35	0.00		
27/03/2025 14:00	5.00	2	

Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	Sheet 2 of 2	
Client	UK Remediation			**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Test Reference**	1	**Operator**	LM/JS
Easting		**Northing**		**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
20					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

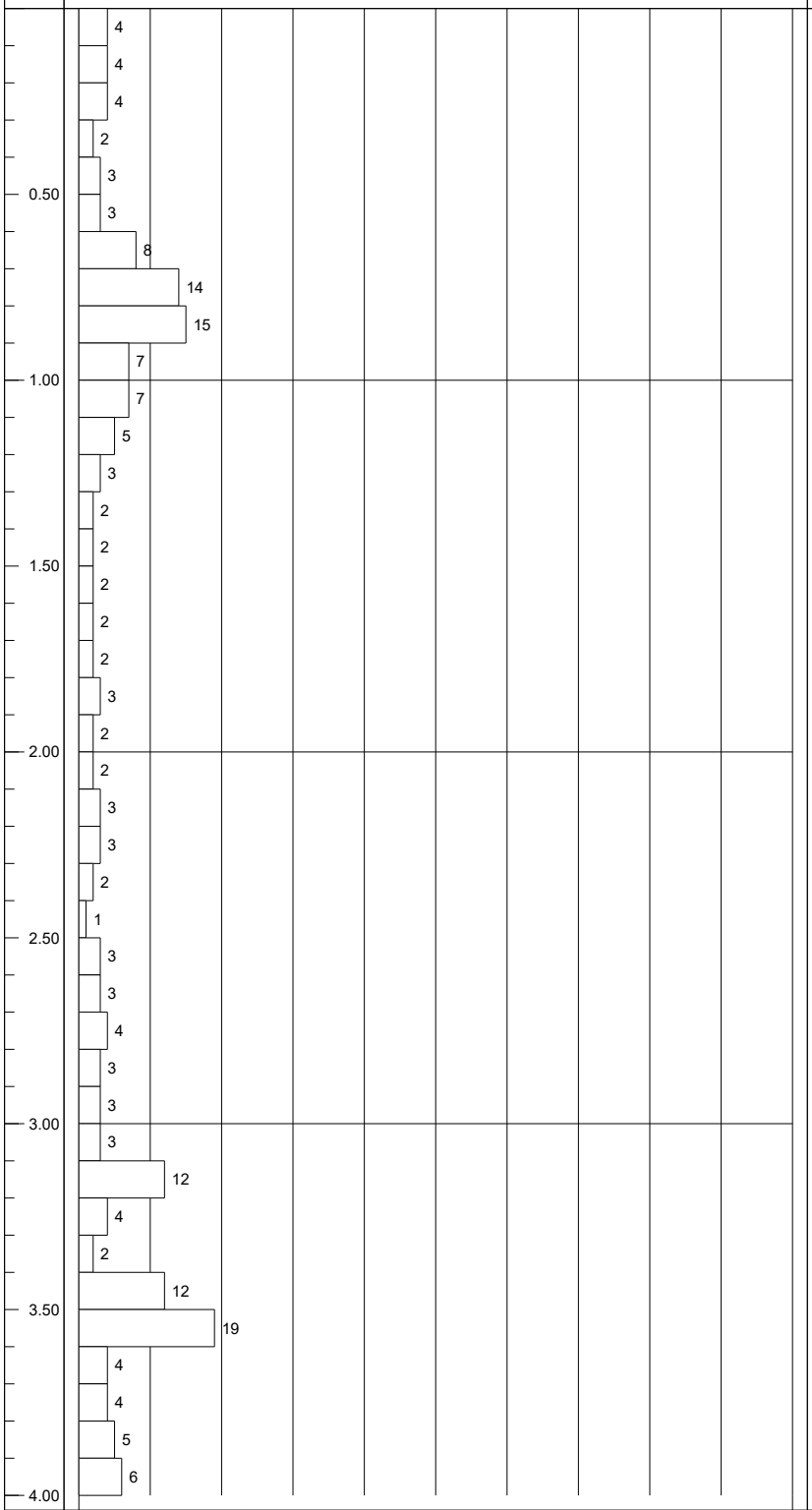
Cone tip adandoned in ground at 2.90m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP10
27/03/2025 14:05	0.00	Dry	
27/03/2025 14:30	5.00		

Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	Sheet 1 of 2	
Client	UK Remediation			**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Test Reference**	1	**Operator**	LM/JS
Easting		**Northing**		**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
0					
10					
10					
20					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

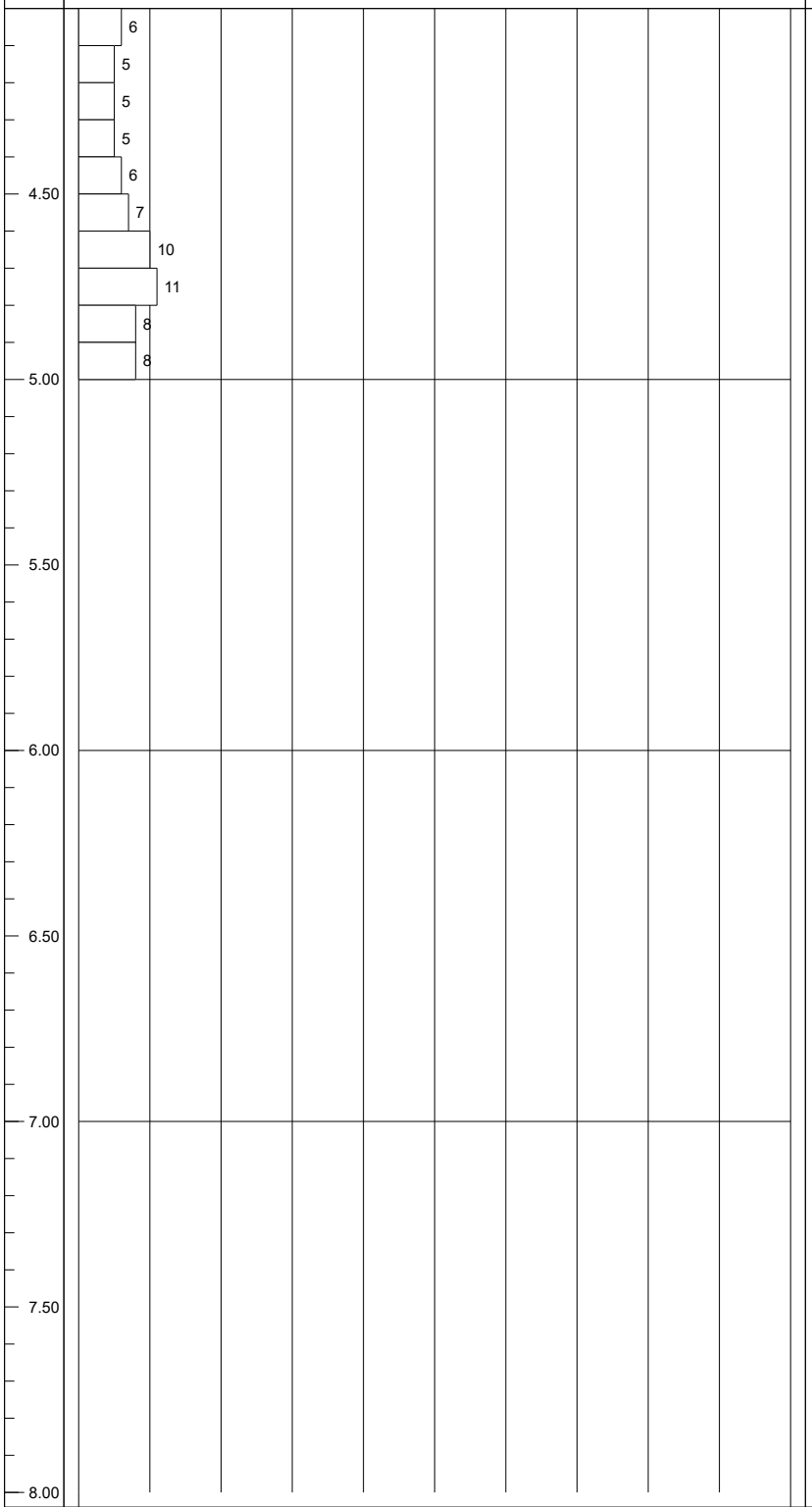
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP10
27/03/2025 14:05	0.00	Dry	
27/03/2025 14:30	5.00		

						Sheet 2 of 2	
Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	**Scale**	1:20
Client	UK Remediation			**Method**	DP	**Operator**	LM/JS
Project No	G25039	**Level**		**Test Reference**	1	**Logged**	LM
Easting		**Northing**		**Probe Type**	DPSH-B	**Checked**	AP
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees		



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
147					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

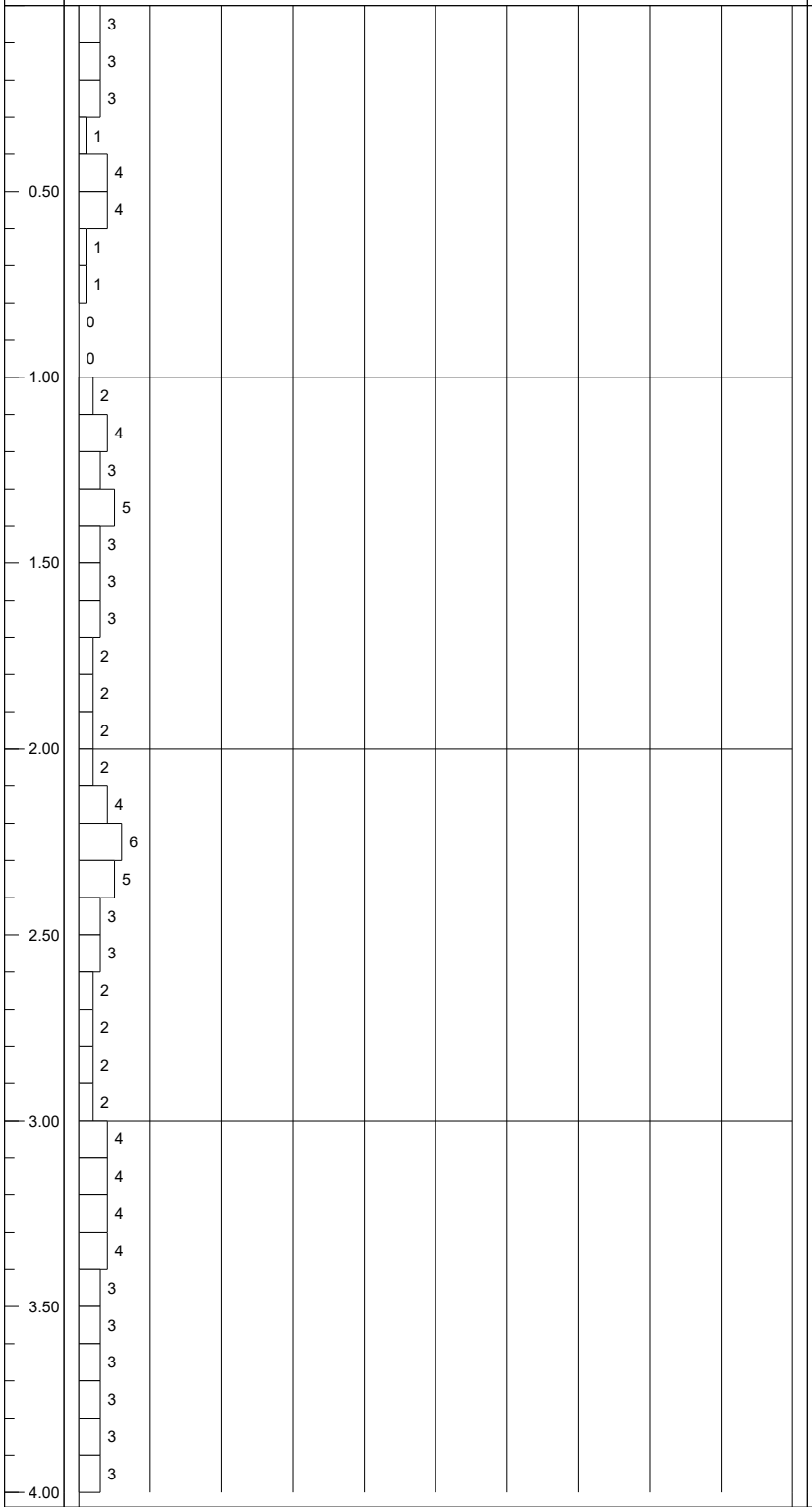
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP11
27/03/2025 14:35	0.00	Dry	
27/03/2025 15:00	5.00		

						Sheet 1 of 2	
Project	Exeter Treatment Centre		**Equipment**	16R-A'way Heavyweight		**Scale**	1:20
Client	UK Remediation		**Method**	DP		**Operator**	LM/JS
Project No	G25039	**Level**		**Test Reference**	1	**Logged**	LM
Easting		**Northing**		**Probe Type**	DPSH-B	**Checked**	AP
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees		



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

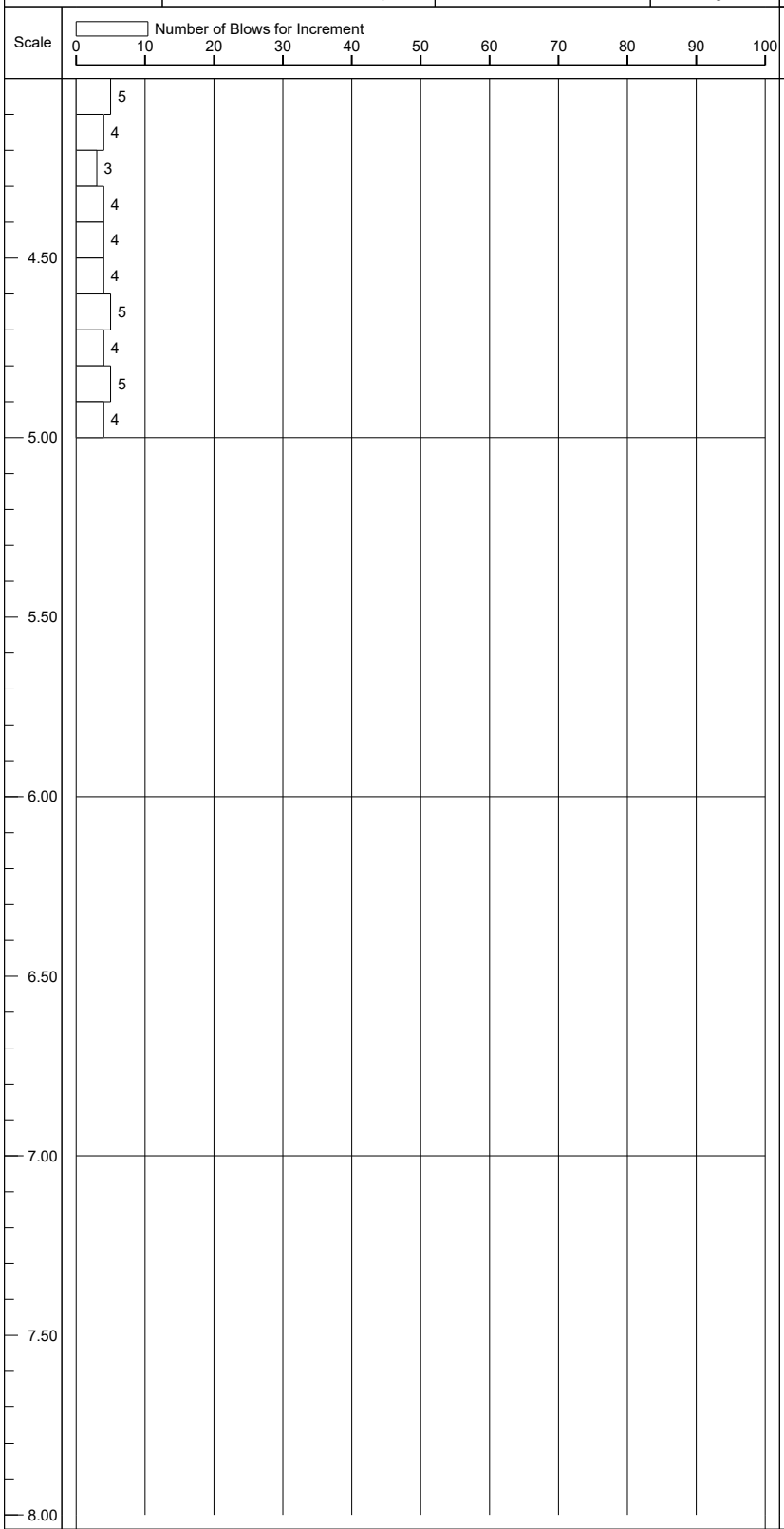
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP11
27/03/2025 14:35	0.00		
27/03/2025 15:00	5.00	Dry	

Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	Sheet 2 of 2	
Client	UK Remediation			**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Test Reference**	1	**Operator**	LM/JS
Easting		**Northing**		**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

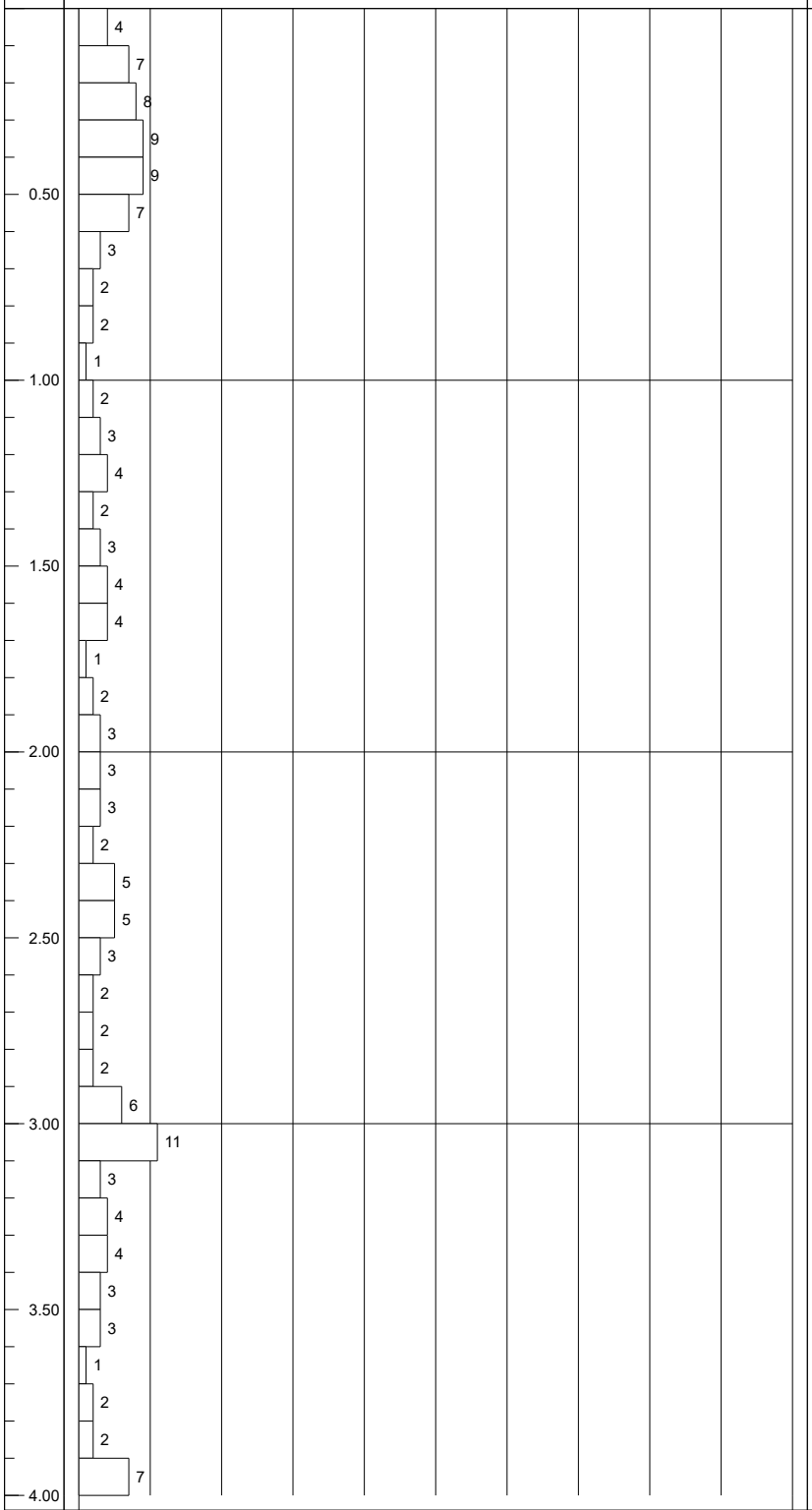
Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP12
27/03/2025 15:05	0.00	Dry	
27/03/2025 15:30	5.00		

Project	Exeter Treatment Centre			**Equipment**	16R-A'way Heavyweight	Sheet 1 of 2	
Client	UK Remediation			**Method**	DP	**Scale**	1:20
Project No	G25039	**Level**		**Test Reference**	1	**Operator**	LM/JS
Easting		**Northing**		**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

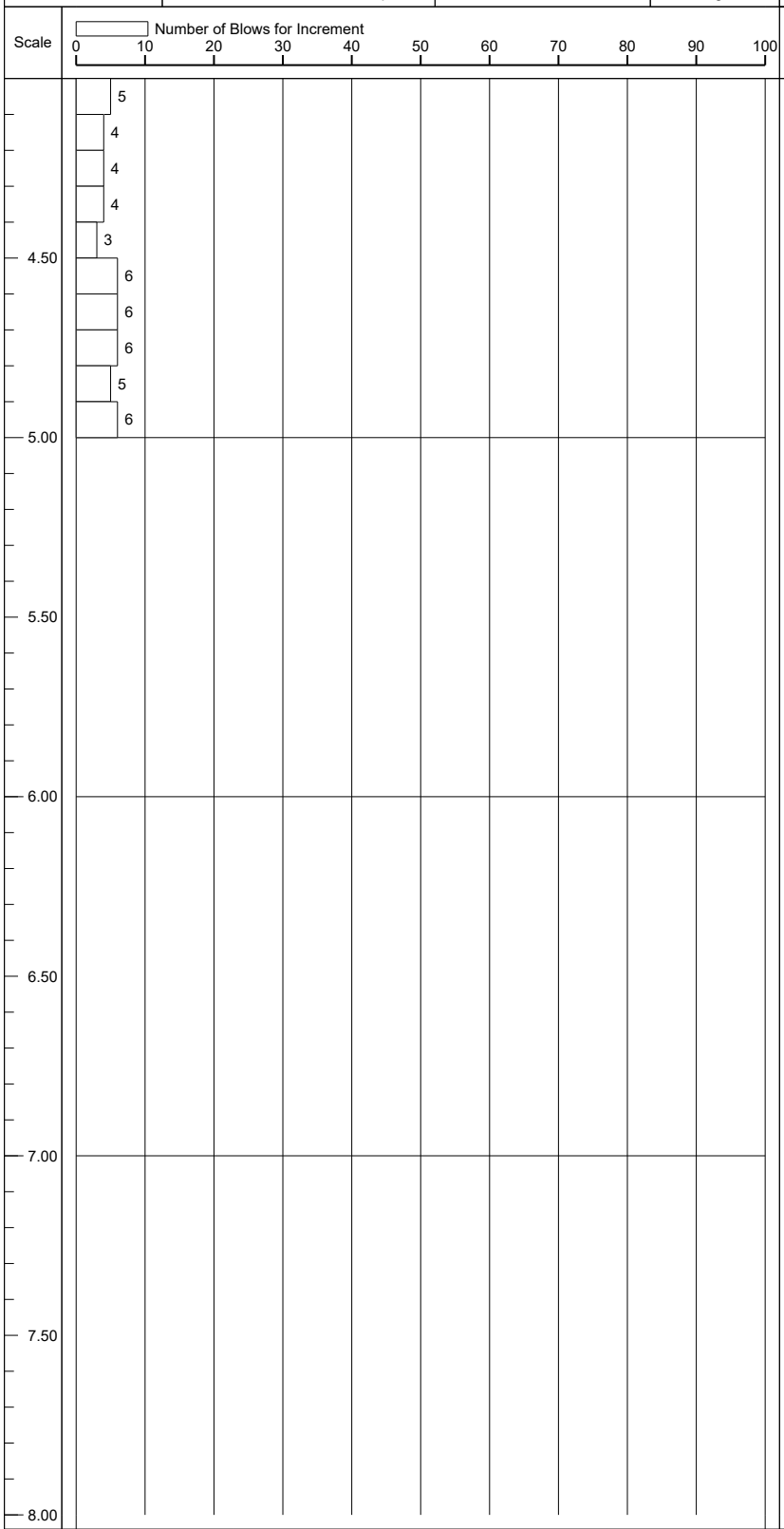
Exploratory Hole Progress by Time		
Date and Time	Depth	Water Depth
27/03/2025 15:05	0.00	Dry
27/03/2025 15:30	5.00	

Exploratory Hole: DP12

Sheet 2 of 2

Project	Exeter Treatment Centre		**Equipment**	16R-A'way Heavyweight	
Client	UK Remediation		**Method**	DP	
Project No	G25039	**Level**		**Test Reference**	1
Easting		**Northing**		**Probe Type**	DPSH-B
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees

Scale	1:20
Operator	LM/JS
Logged	LM
Checked	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

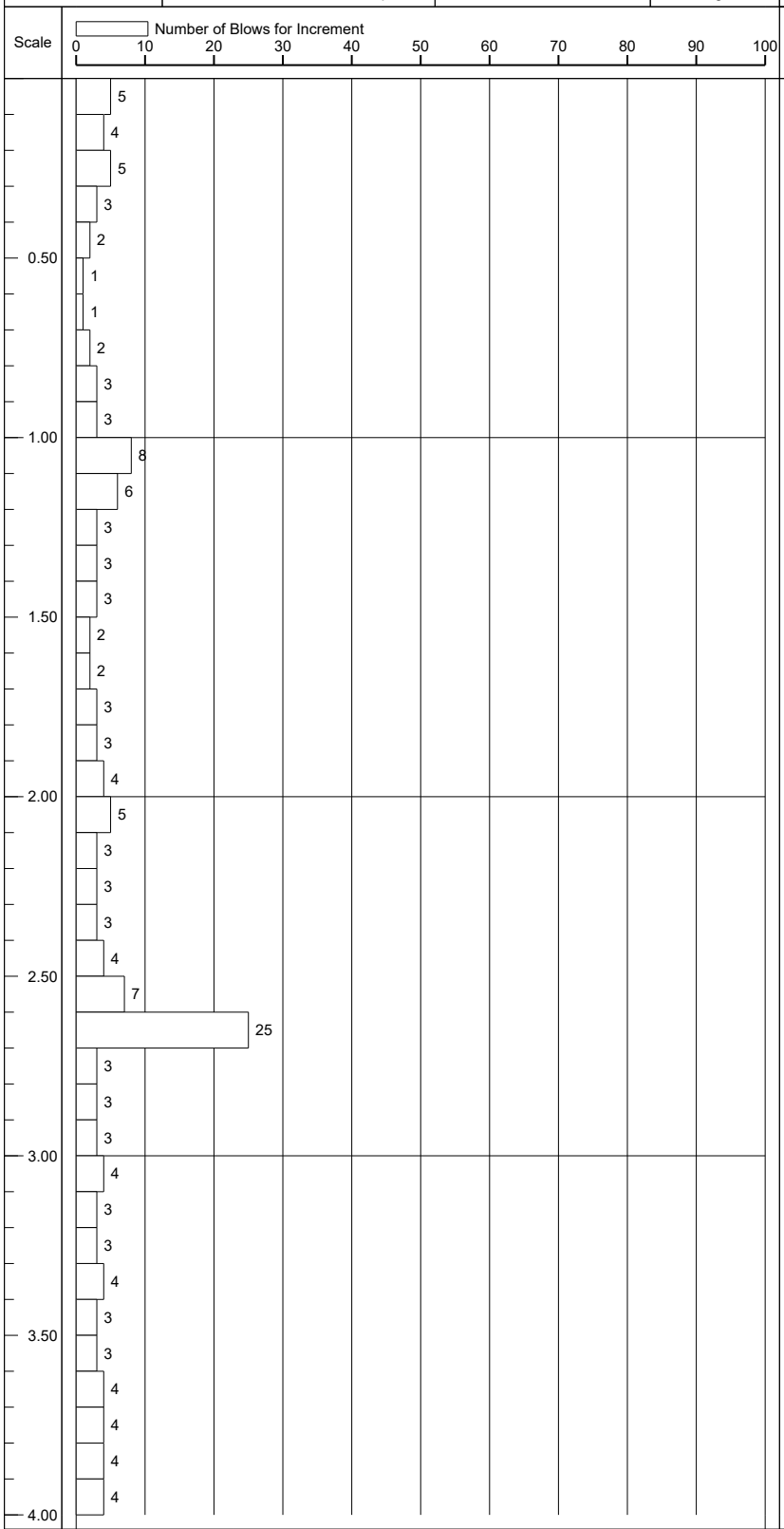
Test method in accordance with BS EN ISO 22476-2.

Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

Exploratory Hole Progress by Time			Exploratory Hole
Date and Time	Depth	Water Depth	DP13
27/03/2025 15:35	0.00		
27/03/2025 16:00	5.00	3	

Project	Exeter Treatment Centre	**Equipment**	16R-A'way Heavyweight	Sheet 1 of 2	
Client	UK Remediation	**Method**	DP	**Scale**	1:20
Project No	G25039 **Level**	**Test Reference**	1	**Operator**	LM/JS
Easting	**Northing**	**Probe Type**	DPSH-B	**Logged**	LM
Termination Reason	Terminated at scheduled depth	**Inclination**	90 degrees	**Checked**	AP



Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
0					
10					
29					
49					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

Cone tip adandoned in ground at 5.00m depth.

DYNAMIC PROBE EXPLORATORY HOLE LOG

JACKSON GEO SERVICES

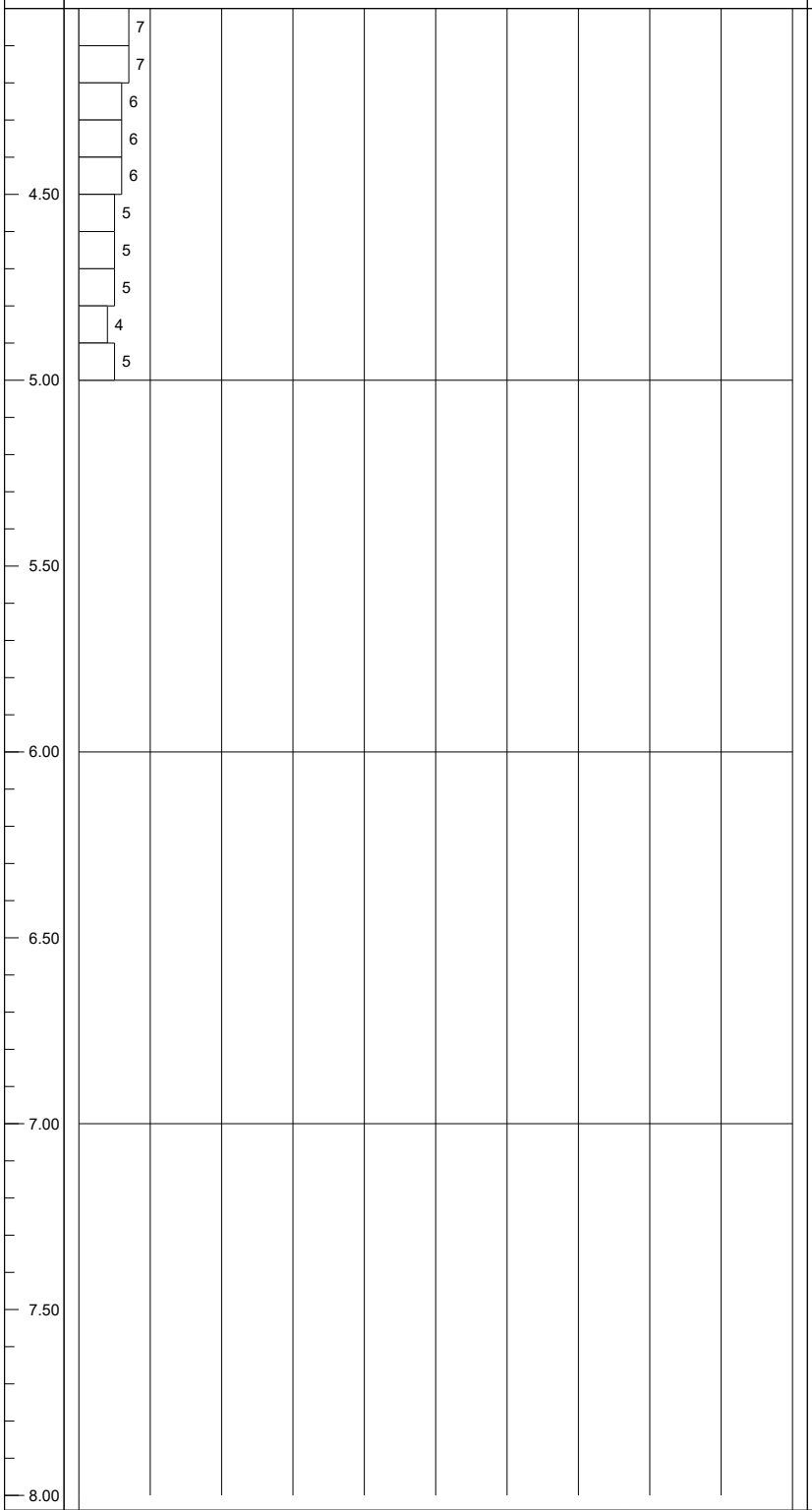
Exploratory Hole Progress by Time		
Date and Time	Depth	Water Depth
27/03/2025 15:35	0.00	
27/03/2025 16:00	5.00	3

Exploratory Hole: DP13

Sheet 2 of 2

Project	Exeter Treatment Centre		**Equipment**	16R-A'way Heavyweight	
Client	UK Remediation		**Method**	DP	
Project No	G25039	**Level**		**Test Reference**	1
Easting		**Northing**		**Probe Type**	DPSH-B
Termination Reason	Terminated at scheduled depth			**Inclination**	90 degrees

Scale	1:20
Operator	LM/JS
Logged	LM
Checked	AP



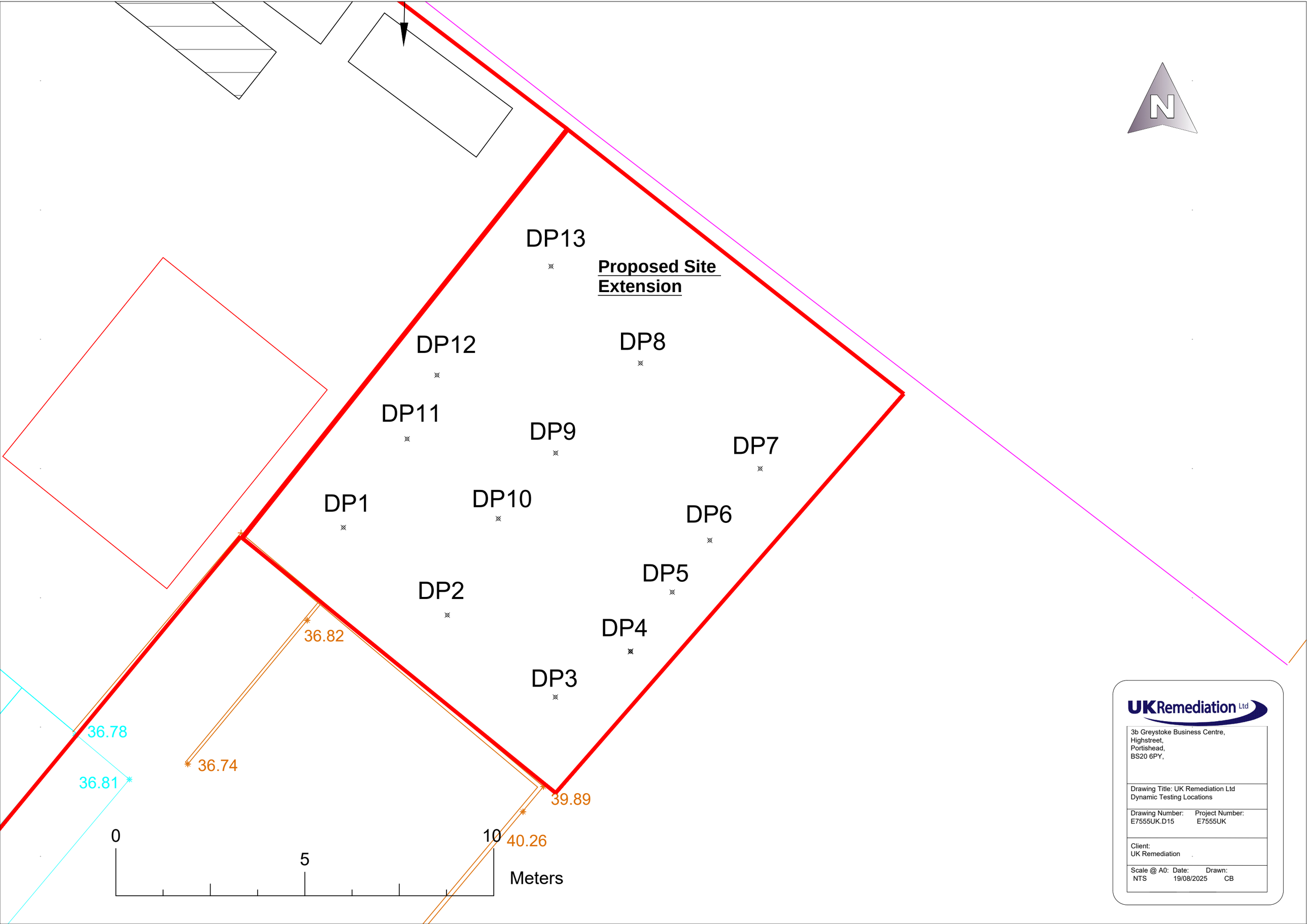
Torque (Nm)	Legend	Description	Depth (Thickness)	Level (mAOD)	Backfill
39					

Weather	Clear	**Hammer Mass**	63.5 kg	**Standard Drop**	750 mm	**Rod Mass**	8.0 kg/m	**Rod Diameter**	35 mm	**Cone Diameter**	50.5 mm	**Cone Angle**	90 degrees

Remarks

Test method in accordance with BS EN ISO 22476-2.

Cone tip adandoned in ground at 5.00m depth.



UK Remediation Ltd

3b Greystoke Business Centre,
Highstreet,
Portishead,
BS20 6PY,

Drawing Title: UK Remediation Ltd
Dynamic Testing Locations

Drawing Number: E7555UK.D15
Project Number: E7555UK

Client:
UK Remediation

Scale @ A0: NTS
Date: 19/08/2025
Drawn: CB

Results

APPENDIX D – E7555UK.D13: TRIAL PIT LOCATIONS AND RESULTS

Drawing E7555UK.D13

TP4

UKRL Area C Ground Investigation - Trial Pit Locations

TP7

TP5

TP3

TP2

TP6

TP1

36.82

36.78

36.74

36.81

39.89

40.26

UKRemediation Ltd

3b Greystoke Business Centre,
Highstreet,
Portishead,
BS20 6PY,

Drawing Title: UK Remediation Ltd
E7555UK.D13 - Trial Pitting Locations

Drawing Number: E7555UK.D13
Project Number: E7555UK

Client:
UK Remediation

Scale @ A0: NTS
Date: 05/06/2025
Drawn: CB

Normec DETS

UKAS TESTING
4480

Chris Baker
UK Remediation Ltd
3B Greystoke Business Centre
High Street
Portishead
Bristol
BS20 6PY

Normec DETS Limited
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 25-03478

Site Reference:	ETF
Project / Job Ref:	E7555UK
Order No:	E7555UK
Sample Receipt Date:	28/03/2025
Sample Scheduled Date:	28/03/2025
Report Issue Number:	1
Reporting Date:	07/04/2025

Authorised by:

Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

4480

Soil Analysis Certificate						
DETS Report No: 25-03478	**~Date Sampled**	27/03/25	27/03/25	27/03/25	27/03/25	27/03/25
UK Remediation Ltd	**~Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: ETF	**~TP / BH No**	TP1	TP2	TP3	TP4	TP4
~Project / Job Ref: E7555UK	**~Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: E7555UK	**~Depth (m)**	0.70	0.30	1.00	0.60	1.60
Reporting Date: 07/04/2025	**DETS Sample No**	770755	770756	770757	770758	770759

Determinand	Unit	RL	Accreditation					(n)
Stone Content	%	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	7.8	7.9	7.8	8.1	7.8
Antimony (Sb)	mg/kg	< 1	NONE	< 1	< 1	1.8	2.7	< 1
Arsenic (As)	mg/kg	< 2	MCERTS	2	< 2	5	10	2
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.3	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	6	3	10	14	5
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	5	< 4	9	18	4
Lead (Pb)	mg/kg	< 3	MCERTS	14	6	20	56	11
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	5	< 3	8	13	4
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Zinc (Zn)	mg/kg	< 3	MCERTS	15	6	26	62	11
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

4480

Soil Analysis Certificate						
DETS Report No: 25-03478	**~Date Sampled**	27/03/25	27/03/25	27/03/25	27/03/25	
UK Remediation Ltd	**~Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	
~Site Reference: ETF	**~TP / BH No**	TP5	TP6	TP6	TP7	
~Project / Job Ref: E7555UK	**~Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	
~Order No: E7555UK	**~Depth (m)**	1.60	0.50	1.60	0.30	
Reporting Date: 07/04/2025	**DETS Sample No**	770760	770761	770762	770763	

Determinand	Unit	RL	Accreditation			(n)		
Stone Content	%	< 0.1	NONE	< 0.1	< 0.1	33.8	< 0.1	
Asbestos Screen [S]	N/a	N/a	**ISO17025**	Not Detected	Not Detected	Not Detected	Not Detected	
pH	pH Units	N/a	**MCERTS**	8.0	7.6	7.9	7.4	
Antimony (Sb)	mg/kg	< 1	NONE	1.8	< 1	1.6	1.5	
Arsenic (As)	mg/kg	< 2	**MCERTS**	8	3	7	9	
Cadmium (Cd)	mg/kg	< 0.2	**MCERTS**	< 0.2	< 0.2	< 0.2	< 0.2	
Chromium (Cr)	mg/kg	< 2	**MCERTS**	11	4	11	16	
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	
Copper (Cu)	mg/kg	< 4	**MCERTS**	8	< 4	12	11	
Lead (Pb)	mg/kg	< 3	**MCERTS**	19	4	32	24	
Mercury (Hg)	mg/kg	< 1	**MCERTS**	< 1	< 1	< 1	< 1	
Nickel (Ni)	mg/kg	< 3	**MCERTS**	8	< 3	11	13	
Selenium (Se)	mg/kg	< 2	**MCERTS**	< 2	< 2	< 2	< 2	
Zinc (Zn)	mg/kg	< 3	**MCERTS**	20	4	46	46	
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 25-03478	**~Date Sampled**	27/03/25	27/03/25	27/03/25	27/03/25	27/03/25
UK Remediation Ltd	**~Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: ETF	**~TP / BH No**	TP1	TP2	TP3	TP4	TP4
~Project / Job Ref: E7555UK	**~Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: E7555UK	**~Depth (m)**	0.70	0.30	1.00	0.60	1.60
Reporting Date: 07/04/2025	**DETS Sample No**	770755	770756	770757	770758	770759

Determinand	Unit	RL	Accreditation					(n)
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.20	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.17	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.74	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.20	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	1.03	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.92	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.49	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.43	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.61	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.22	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.68	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.41	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.33	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	6.4	< 1.6

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 25-03478	**~Date Sampled**	27/03/25	27/03/25	27/03/25	27/03/25	
UK Remediation Ltd	**~Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	
~Site Reference: ETF	**~TP / BH No**	TP5	TP6	TP6	TP7	
~Project / Job Ref: E7555UK	**~Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	
~Order No: E7555UK	**~Depth (m)**	1.60	0.50	1.60	0.30	
Reporting Date: 07/04/2025	**DETS Sample No**	770760	770761	770762	770763	

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.17	
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.16	0.25	
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.23	0.19	
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.12	
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.26	0.11	
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.16	< 0.1	
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.12	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6	

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 25-03478	**~Date Sampled**	27/03/25	27/03/25	27/03/25	27/03/25	27/03/25
UK Remediation Ltd	**~Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: ETF	**~TP / BH No**	TP1	TP2	TP3	TP4	TP4
~Project / Job Ref: E7555UK	**~Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: E7555UK	**~Depth (m)**	0.70	0.30	1.00	0.60	1.60
Reporting Date: 07/04/2025	**DETS Sample No**	770755	770756	770757	770758	770759

Determinand	Unit	RL	Accreditation					(n)
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	< 3	< 3	< 3	4	< 3
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10	< 10	< 10	11	< 10
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Total	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 25-03478	**~Date Sampled**	27/03/25	27/03/25	27/03/25	27/03/25	
UK Remediation Ltd	**~Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	
~Site Reference: ETF	**~TP / BH No**	TP5	TP6	TP6	TP7	
~Project / Job Ref: E7555UK	**~Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	
~Order No: E7555UK	**~Depth (m)**	1.60	0.50	1.60	0.30	
Reporting Date: 07/04/2025	**DETS Sample No**	770760	770761	770762	770763	

Determinand	Unit	RL	Accreditation	(n)				
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	101	< 3	
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	37	< 3	
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	13	< 10	210	< 10	
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21	348	< 21	
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	34	< 2	
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	< 3	< 3	29	< 3	
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10	< 10	253	< 10	
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21	< 21	317	< 21	
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Total	mg/kg	< 42	NONE	< 42	< 42	664	< 42	

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 25-03478	**~Date Sampled**	27/03/25	27/03/25	27/03/25	27/03/25	27/03/25
UK Remediation Ltd	**~Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: ETF	**~TP / BH No**	TP1	TP2	TP3	TP4	TP4
~Project / Job Ref: E7555UK	**~Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: E7555UK	**~Depth (m)**	0.70	0.30	1.00	0.60	1.60
Reporting Date: 07/04/2025	**DETS Sample No**	770755	770756	770757	770758	770759

Determinand	Unit	RL	Accreditation					(n)
Benzene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene : HS_1D_MS	µg/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE : HS_1D_MS	µg/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 25-03478	**~Date Sampled**	27/03/25	27/03/25	27/03/25	27/03/25	
UK Remediation Ltd	**~Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	
~Site Reference: ETF	**~TP / BH No**	TP5	TP6	TP6	TP7	
~Project / Job Ref: E7555UK	**~Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	
~Order No: E7555UK	**~Depth (m)**	1.60	0.50	1.60	0.30	
Reporting Date: 07/04/2025	**DETS Sample No**	770760	770761	770762	770763	

Determinand	Unit	RL	Accreditation	(n)				
Benzene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Toluene : HS_1D_MS	µg/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	
Ethylbenzene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
p & m-xylene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
o-xylene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
MTBE : HS_1D_MS	µg/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 25-03478	
UK Remediation Ltd	
~Site Reference: ETF	
~Project / Job Ref: E7555UK	
~Order No: E7555UK	
Reporting Date: 07/04/2025	

DETS Sample No	~TP / BH No	~Additional Refs	~Depth (m)	Moisture Content (%)	Sample Matrix Description
770755	TP1	None Supplied	0.70	11.1	Light brown sand
770756	TP2	None Supplied	0.30	8.3	Light brown sand
770757	TP3	None Supplied	1.00	10.6	Light brown sandy clay
770758	TP4	None Supplied	0.60	10.8	Light brown sandy clay
770759	TP4	None Supplied	1.60	10.3	Light brown sand with stones
770760	TP5	None Supplied	1.60	10.2	Light brown sandy clay with stones
770761	TP6	None Supplied	0.50	9.1	Light brown sand
770762	TP6	None Supplied	1.60	13.1	Light brown sludge with stones
770763	TP7	None Supplied	0.30	10.4	Light brown sandy clay with stones

Moisture content is part of procedure E003 & is not an accredited test

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

4480

Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 25-03478
UK Remediation Ltd
~Site Reference: ETF
~Project / Job Ref: E7555UK
~Order No: E7555UK
Reporting Date: 07/04/2025

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

List of HWOL Acronyms and Operators
DETS Report No: 25-03478
UK Remediation Ltd
~Site Reference: ETF
~Project / Job Ref: E7555UK
~Order No: E7555UK
Reporting Date: 07/04/2025

Acronym	**Description**
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by customer and can affect the validity of results

Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aliphatic C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS

Certificate Key

Symbol	Description
F	Filtered sample
UF	Unfiltered sample
D	Dried sample
AR	As received sample
RL	Reporting limit
~	Sample details provided by customer and can affect the validity of results
M/S	Missing Sample
n	Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation
S	Subcontracted analysis
M	MCERTS accredited test
U	UKAS accredited test

Results

APPENDIX E – E7555UK.D10: GROUNDWATER MONITORING LOCATION AND RESULTS

Drawing E7555UK.D10

Weighbridge

oil Wash
lant
Present)

Permit Boundary

UKRL Treatment
Facility

Area B Sump

WS01

Groundwater
Monitoring
Location

Screening
Area

UKRL Boundary
Extension

36.82

36.78

36.74

36.81

39.89

2

1

UKRemediation Ltd

3b Greystoke Business Centre,
Highstreet,
Portishead,
BS20 6PY,

Drawing Title: UK Remediation Ltd
Groundwater Monitoring Location

Drawing Number: E7555UK.D10
Project Number: E7555UK

Client:
UK Remediation Ltd

Scale @ A0: NTS
Date: 07/05/2025
Drawn: CB

Certificate of Analysis

Certificate Number	25-09545	*Issued:*	12-May-25

Client UK Remediation Ltd
3B Greystoke Business Centre
High Street
Portishead
Bristol
BS20 6PY

Our Reference	25-09545
Client Reference ~	E7555UK
Order No ~	7555
Contract Title ~	ETF Groundwater
Description	1 Groundwater sample.
Date Received	30-Apr-25
Date Started	30-Apr-25
Date Completed	12-May-25
Test Procedures	Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Louise Cook
Contracts Manager

2139

Summary of Chemical Analysis
Water Samples

Our Ref 25-09545
Client Ref ~ E7555UK
Contract Title ~ ETF Groundwater

	Deviating
Lab No	2501557
Sample ID ~	WS01
Depth ~	
Other ID ~	
Sample Type ~	GROUND WATER
Sampling Date ~	25/04/2025
Sampling Time ~	1220

Test	Method	LOD	Units	
Metals				
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	2.0
Boron, Dissolved	DETSC 2306*	12	ug/l	267.3
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	1.9
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.2
Lead, Dissolved	DETSC 2306	0.09	ug/l	1.7
Mercury, Dissolved	DETSC 2306	0.01	ug/l	0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	4.2
Selenium, Dissolved	DETSC 2306	0.25	ug/l	0.63
Zinc, Dissolved	DETSC 2306	1.3	ug/l	34
Inorganics				
pH	DETSC 2008		pH	7.7
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Sulphate as SO4	DETSC 2055	0.1	mg/l	130
Sulphide	DETSC 2208	0.01	mg/l	0.02
Total Organic Carbon	DETSC 2085	1	mg/l	290
Petroleum Hydrocarbons				
Aliphatic C5-C6: HS_1D_AL	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8: HS_1D_AL	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10: HS_1D_AL	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35: EH_CU+HS_1D_AL	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7: HS_1D_AR	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8: HS_1D_AR	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10: HS_1D_AR	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35: EH_CU+HS_1D_AR	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total C5-C35: EH_CU+HS_1D_Total	DETSC 3072*	10	ug/l	< 10
Benzene	DETSC 3322	1	ug/l	< 1.0
Toluene	DETSC 3322	1	ug/l	< 1.0
Ethylbenzene	DETSC 3322	1	ug/l	< 1.0
Xylene	DETSC 3322	1	ug/l	< 1.0
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	< 0.25

Summary of Chemical Analysis
Water Samples

Our Ref 25-09545
Client Ref ~ E7555UK
Contract Title ~ ETF Groundwater

	Deviating
Lab No	2501557
Sample ID ~	WS01
Depth ~	
Other ID ~	
Sample Type ~	GROUND WATER
Sampling Date ~	25/04/2025
Sampling Time ~	1220

Test	Method	LOD	Units	
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.05
Acenaphthene	DETSC 3304	0.01	ug/l	0.55
Fluorene	DETSC 3304	0.01	ug/l	0.05
Phenanthrene	DETSC 3304	0.01	ug/l	0.14
Anthracene	DETSC 3304	0.01	ug/l	0.09
Fluoranthene	DETSC 3304	0.01	ug/l	0.21
Pyrene	DETSC 3304	0.01	ug/l	< 0.05
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.05
Chrysene	DETSC 3304	0.01	ug/l	< 0.05
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	0.09
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.05
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.07
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.06
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.05
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 0.05
PAH Total	DETSC 3304	0.2	ug/l	1.3
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Information in Support of the Analytical Results

Our Ref 25-09545
Client Ref ~ E7555UK
Contract ~ ETF Groundwater

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2501557	WS01 GROUND WATER	25/04/25	GB 1L, PB 1L	Aliphatics/Aromatics (4 days), pH/Cond (1 days), PAH MS (4 days)	

Key: G-Glass P-Plastic B-Bottle
Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic C10-C12	EH_CU_1D_AL
Aliphatic C12-C16	EH_CU_1D_AL
Aliphatic C16-C21	EH_CU_1D_AL
Aliphatic C21-C35	EH_CU_1D_AL
Aliphatic C5-C35	EH_CU+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic C10-C12	EH_CU_1D_AR
Aromatic C12-C16	EH_CU_1D_AR
Aromatic C16-C21	EH_CU_1D_AR
Aromatic C21-C35	EH_CU_1D_AR
Aromatic C5-C35	EH_CU+HS_1D_AR
TPH Ali/Aro Total C5-C35	EH_CU+HS_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

***** -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report

Certificate of Analysis

Certificate Number	25-10197	*Issued:*	19-May-25

Client UK Remediation Ltd
3B Greystoke Business Centre
High Street
Portishead
Bristol
BS20 6PY

Our Reference	25-10197
Client Reference ~	E7555UK
Order No ~	E7555UK
Contract Title ~	ETF GROUNDWATER
Description	1 Groundwater sample.
Date Received	08-May-25
Date Started	08-May-25
Date Completed	19-May-25
Test Procedures	Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Louise Cook
Contracts Manager

2139

Summary of Chemical Analysis
Water Samples

Our Ref 25-10197
Client Ref ~ E7555UK
Contract Title ~ ETF GROUNDWATER

	Deviating
Lab No	2505333
Sample ID ~	WS01
Depth ~	
Other ID ~	
Sample Type ~	GROUND WATER
Sampling Date ~	06/05/2025
Sampling Time ~	n/s

Test	Method	LOD	Units	
Metals				
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.94
Boron, Dissolved	DETSC 2306*	12	ug/l	162.4
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25
Copper, Dissolved	DETSC 2306	0.4	ug/l	1.1
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	3.8
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25
Zinc, Dissolved	DETSC 2306	1.3	ug/l	90
Inorganics				
pH	DETSC 2008		pH	7.7
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Sulphate as SO4	DETSC 2055	0.1	mg/l	260
Sulphide	DETSC 2208	0.01	mg/l	< 0.01
Total Organic Carbon	DETSC 2085	1	mg/l	6.9
Petroleum Hydrocarbons				
Aliphatic C5-C6: HS_1D_AL	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8: HS_1D_AL	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10: HS_1D_AL	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35: EH_CU+HS_1D_AL	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7: HS_1D_AR	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8: HS_1D_AR	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10: HS_1D_AR	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35: EH_CU+HS_1D_AR	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total C5-C35: EH_CU+HS_1D_Total	DETSC 3072*	10	ug/l	< 10
Benzene	DETSC 3322	1	ug/l	< 1.0
Toluene	DETSC 3322	1	ug/l	< 1.0
Ethylbenzene	DETSC 3322	1	ug/l	< 1.0
Xylene	DETSC 3322	1	ug/l	< 1.0
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05

Summary of Chemical Analysis
Water Samples

Our Ref 25-10197
Client Ref ~ E7555UK
Contract Title ~ ETF GROUNDWATER

	Deviating
Lab No	2505333
Sample ID ~	WS01
Depth ~	
Other ID ~	
Sample Type ~	GROUND WATER
Sampling Date ~	06/05/2025
Sampling Time ~	n/s

Test	Method	LOD	Units	
Acenaphthylene	DETSC 3304	0.01	ug/l	0.02
Acenaphthene	DETSC 3304	0.01	ug/l	< 0.01
Fluorene	DETSC 3304	0.01	ug/l	< 0.01
Phenanthrene	DETSC 3304	0.01	ug/l	0.03
Anthracene	DETSC 3304	0.01	ug/l	0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.09
Pyrene	DETSC 3304	0.01	ug/l	0.10
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.05
Chrysene	DETSC 3304	0.01	ug/l	0.05
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.02
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.06
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.05
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.04
PAH Total	DETSC 3304	0.2	ug/l	0.53
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	120

Information in Support of the Analytical Results

Our Ref 25-10197
Client Ref ~ E7555UK
Contract ~ ETF GROUNDWATER

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2505333	WS01 GROUND WATER	06/05/25	GB 1L, PB 1L	pH/Cond (1 days)	

Key: G-Glass P-Plastic B-Bottle
Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic C10-C12	EH_CU_1D_AL
Aliphatic C12-C16	EH_CU_1D_AL
Aliphatic C16-C21	EH_CU_1D_AL
Aliphatic C21-C35	EH_CU_1D_AL
Aliphatic C5-C35	EH_CU+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic C10-C12	EH_CU_1D_AR
Aromatic C12-C16	EH_CU_1D_AR
Aromatic C16-C21	EH_CU_1D_AR
Aromatic C21-C35	EH_CU_1D_AR
Aromatic C5-C35	EH_CU+HS_1D_AR
TPH Ali/Aro Total C5-C35	EH_CU+HS_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

***** -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report

Certificate of Analysis

Certificate Number	25-10959	*Issued:*	02-Jun-25

Client UK Remediation Ltd
3B Greystoke Business Centre
High Street
Portishead
Bristol
BS20 6PY

Our Reference	25-10959
Client Reference ~	E7555UK
Order No ~	E7555UK
Contract Title ~	ETF Groundwater
Description	1 Groundwater sample.
Date Received	16-May-25
Date Started	16-May-25
Date Completed	02-Jun-25
Test Procedures	Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Louise Cook
Contracts Manager

2139

Summary of Chemical Analysis
Water Samples

Our Ref 25-10959
Client Ref ~ E7555UK
Contract Title ~ ETF Groundwater

	Deviating
Lab No	2509932
Sample ID ~	WS01
Depth ~	
Other ID ~	
Sample Type ~	GROUND WATER
Sampling Date ~	14/05/2025
Sampling Time ~	1035

Test	Method	LOD	Units	
Metals				
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	2.6
Boron, Dissolved	DETSC 2306*	12	ug/l	303.1
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03
Chromium, Dissolved	DETSC 2306	0.25	ug/l	1.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	< 0.4
Lead, Dissolved	DETSC 2306	0.09	ug/l	0.18
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	7.0
Selenium, Dissolved	DETSC 2306	0.25	ug/l	0.64
Zinc, Dissolved	DETSC 2306	1.3	ug/l	92
Inorganics				
pH	DETSC 2008		pH	8.1
Cyanide, Total	DETSC 2130	40	ug/l	< 40
Sulphate as SO4	DETSC 2055	0.1	mg/l	260
Sulphide	DETSC 2208	0.01	mg/l	0.16
Total Organic Carbon	DETSC 2085	1	mg/l	92
Petroleum Hydrocarbons				
Aliphatic C5-C6: HS_1D_AL	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C6-C8: HS_1D_AL	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C8-C10: HS_1D_AL	DETSC 3322	0.1	ug/l	< 0.1
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072*	1	ug/l	< 1.0
Aliphatic C5-C35: EH_CU+HS_1D_AL	DETSC 3072*	10	ug/l	< 10
Aromatic C5-C7: HS_1D_AR	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C7-C8: HS_1D_AR	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C8-C10: HS_1D_AR	DETSC 3322	0.1	ug/l	< 0.1
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072*	1	ug/l	< 1.0
Aromatic C5-C35: EH_CU+HS_1D_AR	DETSC 3072*	10	ug/l	< 10
TPH Ali/Aro Total C5-C35: EH_CU+HS_1D_Total	DETSC 3072*	10	ug/l	< 10
Benzene	DETSC 3322	1	ug/l	< 1.0
Toluene	DETSC 3322	1	ug/l	< 1.0
Ethylbenzene	DETSC 3322	1	ug/l	< 1.0
Xylene	DETSC 3322	1	ug/l	< 1.0
PAHs				
Naphthalene	DETSC 3304	0.05	ug/l	< 0.25

Summary of Chemical Analysis
Water Samples

Our Ref 25-10959
Client Ref ~ E7555UK
Contract Title ~ ETF Groundwater

	Deviating
Lab No	2509932
Sample ID ~	WS01
Depth ~	
Other ID ~	
Sample Type ~	GROUND WATER
Sampling Date ~	14/05/2025
Sampling Time ~	1035

Test	Method	LOD	Units	
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.05
Acenaphthene	DETSC 3304	0.01	ug/l	0.70
Fluorene	DETSC 3304	0.01	ug/l	0.09
Phenanthrene	DETSC 3304	0.01	ug/l	0.25
Anthracene	DETSC 3304	0.01	ug/l	0.07
Fluoranthene	DETSC 3304	0.01	ug/l	0.27
Pyrene	DETSC 3304	0.01	ug/l	0.21
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	0.07
Chrysene	DETSC 3304	0.01	ug/l	< 0.05
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.05
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	0.05
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	0.07
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	0.10
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.05
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	0.08
PAH Total	DETSC 3304	0.2	ug/l	2.0
Phenols				
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100

Information in Support of the Analytical Results

Our Ref 25-10959
Client Ref ~ E7555UK
Contract ~ ETF Groundwater

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2509932	WS01 GROUND WATER	14/05/25	GB 1L, PB 1L	pH/Cond (1 days)	

Key: G-Glass P-Plastic B-Bottle
Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic C10-C12	EH_CU_1D_AL
Aliphatic C12-C16	EH_CU_1D_AL
Aliphatic C16-C21	EH_CU_1D_AL
Aliphatic C21-C35	EH_CU_1D_AL
Aliphatic C5-C35	EH_CU+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic C10-C12	EH_CU_1D_AR
Aromatic C12-C16	EH_CU_1D_AR
Aromatic C16-C21	EH_CU_1D_AR
Aromatic C21-C35	EH_CU_1D_AR
Aromatic C5-C35	EH_CU+HS_1D_AR
TPH Ali/Aro Total C5-C35	EH_CU+HS_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

***** -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.03.02

APPENDIX F – E7555UK.D16: PLATE LOAD TEST LOCATIONS AND RESULTS

Drawing E755UK.D16

Weighbridge

N

PLT05

Proposed Site Extension

PLT01

PLT06

PLT04

PLT02

PLT03

36.82

36.78

36.74

36.81

39.89

40.26

0

5

10

Meters

UK Remediation Ltd

3b Greystoke Business Centre,
Highstreet,
Portishead,
BS20 6PY,

Drawing Title: UK Remediation Ltd
Plate Load Testing Locations

Drawing Number: E7555UK.D16
Project Number: E7555UK

Client:
UK Remediation

Scale @ A0: NTS
Date: 19/08/2025
Drawn: CB

Results

Jackson Geo Services
Unit B3, Fram Enterprise Centre, Parc Busnes Edwards, Llantrisant, Pontyclun
Tel: 02920099796 Email: Team@jacksongeo.co.uk

PLATE LOADING TEST REPORT

in accordance with BS 1377 : Part 9 Cl. 4.1 : 1990
Incremental loading test

Project	Exeter Treatment	**Test No:**	PLT01
Client	UK Remediation	**Lab Ref No:**	G25039/01
		Date Reported	28.03.25
		Weather Conditions	not set
Technician	IR	**Air Temperature °C**	15

Date Tested	28.03.2025	**Plate Dia (mm)**	600
Location	PLT01		
GPS Coord's	W 3°24'35.45', N 50°42'39.55'	**Depth (m)**	0
Material Type	Existing ground	**Reaction Type**	21t Excavator
No Cycles	1	**App Weight (kg)**	8

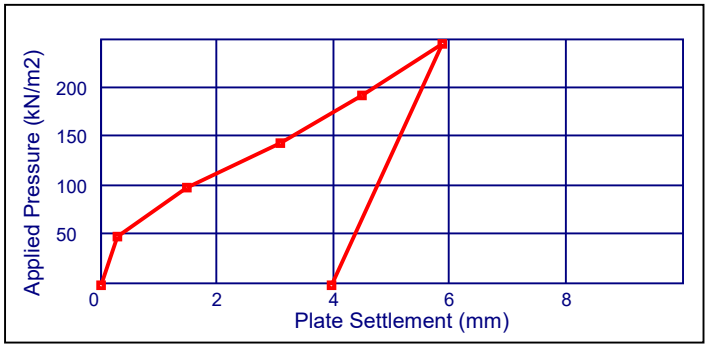
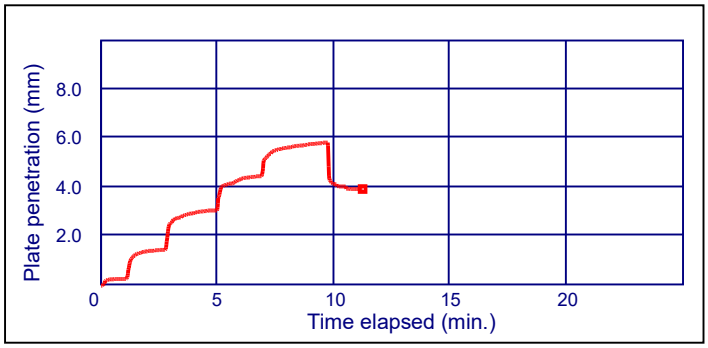


Plate Settlement (mm)	Applied Pressure (kN/m2)
0.00	0.0
0.28	50.1
1.47	100.0
3.08	145.9
4.48	194.7
5.86	247.5
3.96	0.1



	Cycle 1
Maximum Applied Pressure (kPa):	**248**
Maximum deformation (mm):	**5.86**
Modulus of subgrade reaction K (MN/m3):	**72.5**
K762 (MN/m3):	**58.4**
Estimated CBR (%):	**11**

Comments:

Approved Signature
Jackson Geo Services
James Mills
Engineering Geologist

Jackson Geo Services
Unit B3, Fram Enterprise Centre, Parc Busnes Edwards, Llantrisant, Pontyclun
Tel: 02920099796 Email: Team@jacksongeo.co.uk

PLATE LOADING TEST REPORT

in accordance with BS 1377 : Part 9 Cl. 4.1 : 1990
Incremental loading test

Project	Exeter Treatment	**Test No:**	PLT02
Client	UK Remediation	**Lab Ref No:**	G25039/02
		Date Reported	28.03.25
		Weather Conditions	not set
Technician	IR	**Air Temperature °C**	15

Date Tested	28.03.2025	**Plate Dia (mm)**	600
Location	PLT02		
GPS Coord's	W 3°24'35.27', N 50°42'39.58'	**Depth (m)**	0
Material Type	Existing ground	**Reaction Type**	21t Excavator
No Cycles	1	**App Weight (kg)**	8

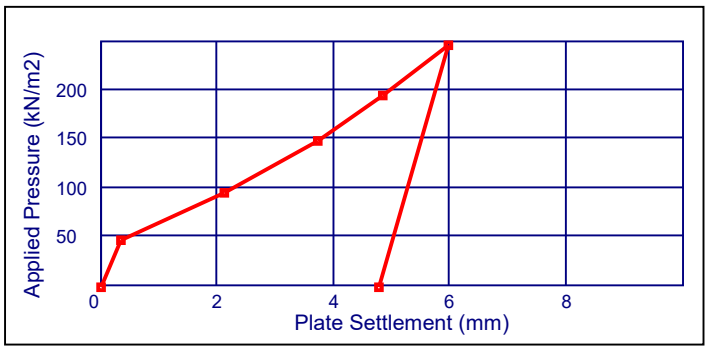
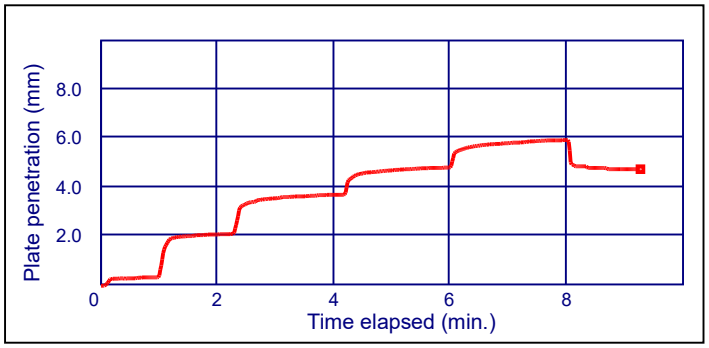


Plate Settlement (mm)	Applied Pressure (kN/m2)
0.00	0.0
0.34	48.2
2.12	96.9
3.72	150.1
4.84	196.7
5.97	248.2
4.77	0.0



	Cycle 1
Maximum Applied Pressure (kPa):	**248**
Maximum deformation (mm):	**5.97**
Modulus of subgrade reaction K (MN/m3):	**58.5**
K762 (MN/m3):	**47.1**
Estimated CBR (%):	**7.6**

Comments:

Approved Signature
Jackson Geo Services
James Mills
Engineering Geologist

Jackson Geo Services
Unit B3, Fram Enterprise Centre, Parc Busnes Edwards, Llantrisant, Pontyclun
Tel: 02920099796 Email: Team@jacksongeo.co.uk

PLATE LOADING TEST REPORT

in accordance with BS 1377 : Part 9 Cl. 4.1 : 1990
Incremental loading test

Project	Exeter Treatment	**Test No:**	PLT03
Client	UK Remediation	**Lab Ref No:**	G25039/03
		Date Reported	28.03.25
		Weather Conditions	not set
Technician	IR	**Air Temperature °C**	15

Date Tested	28.03.2025	**Plate Dia (mm)**	600
Location	PLT03		
GPS Coord's	W 3°24'36.06', N 50°42'39.32'	**Depth (m)**	0
Material Type	Existing ground	**Reaction Type**	21t Excavator
No Cycles	1	**App Weight (kg)**	8

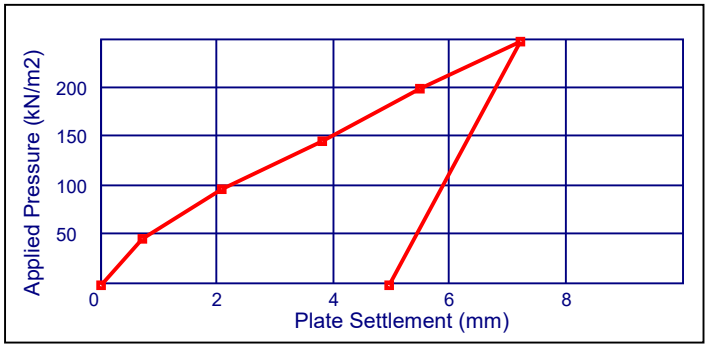
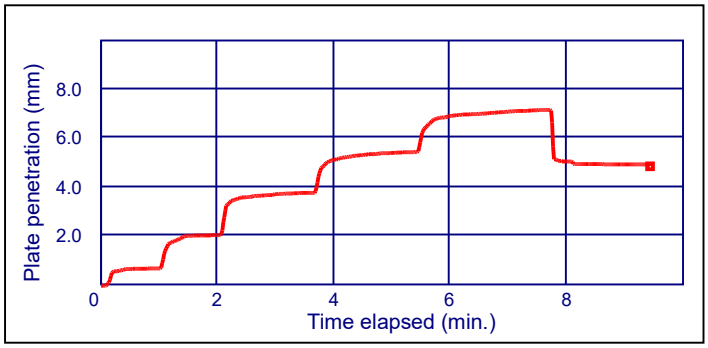


Plate Settlement (mm)	Applied Pressure (kN/m2)
0.00	0.0
0.71	47.6
2.07	98.4
3.80	147.6
5.48	201.5
7.20	249.7
4.95	-0.1



	Cycle 1
Maximum Applied Pressure (kPa):	**250**
Maximum deformation (mm):	**7.20**
Modulus of subgrade reaction K (MN/m3):	**54.3**
K762 (MN/m3):	**43.7**
Estimated CBR (%):	**6.7**

Comments:

Approved Signature
Jackson Geo Services
James Mills
Engineering Geologist

Jackson Geo Services
Unit B3, Fram Enterprise Centre, Parc Busnes Edwards, Llantrisant, Pontyclun
Tel: 02920099796 Email: Team@jacksongeo.co.uk

PLATE LOADING TEST REPORT

in accordance with BS 1377 : Part 9 Cl. 4.1 : 1990
Incremental loading test

Project	Exeter Treatment	**Test No:**	PLT04
Client	UK Remediation	**Lab Ref No:**	G25039/04
		Date Reported	28.03.25
		Weather Conditions	Cloudy
Technician	IR	**Air Temperature °C**	15

Date Tested	28.03.2025	**Plate Dia (mm)**	600
Location	PLT04		
GPS Coord's	W 3°24'36.34', N 50°42'39.63'	**Depth (m)**	0
Material Type	Existing ground	**Reaction Type**	21t Excavator
No Cycles	1	**App Weight (kg)**	8

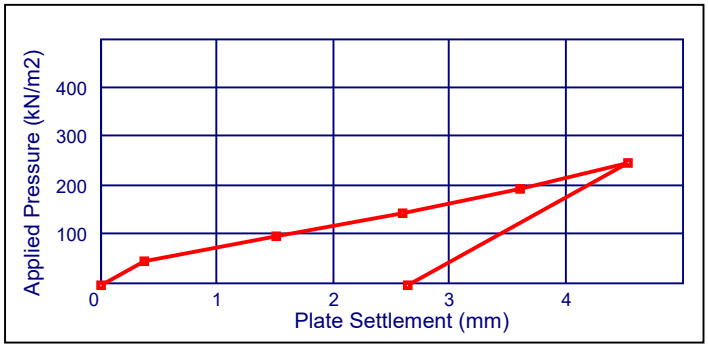
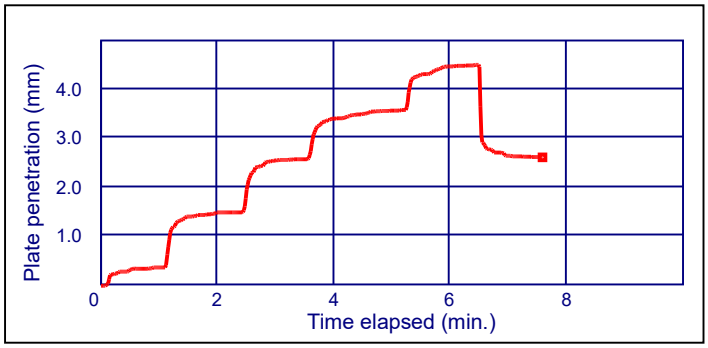


Plate Settlement (mm)	Applied Pressure (kN/m2)
0.00	0.0
0.37	49.5
1.50	100.2
2.59	147.8
3.60	197.9
4.53	250.5
2.63	-0.1



	Cycle 1
Maximum Applied Pressure (kPa):	**251**
Maximum deformation (mm):	**4.53**
Modulus of subgrade reaction K (MN/m3):	**71.1**
K762 (MN/m3):	**57.2**
Estimated CBR (%):	**11**

Comments:

Approved Signature
Jackson Geo Services
James Mills
Engineering Geologist

Jackson Geo Services
Unit B3, Fram Enterprise Centre, Parc Busnes Edwards, Llantrisant, Pontyclun
Tel: 02920099796 Email: Team@jacksongeo.co.uk

PLATE LOADING TEST REPORT

in accordance with BS 1377 : Part 9 Cl. 4.1 : 1990
Incremental loading test

Project	Exeter Treatment	**Test No:**	PLT05
Client	UK Remediation	**Lab Ref No:**	G25039/05
		Date Reported	28.03.25
		Weather Conditions	Cloudy
Technician	IR	**Air Temperature °C**	15

Date Tested	28.03.2025	**Plate Dia (mm)**	600
Location	PLT05		
GPS Coord's	W 3°24'36.06', N 50°42'39.62'	**Depth (m)**	0
Material Type	Existing ground	**Reaction Type**	21t Excavator
No Cycles	1	**App Weight (kg)**	8

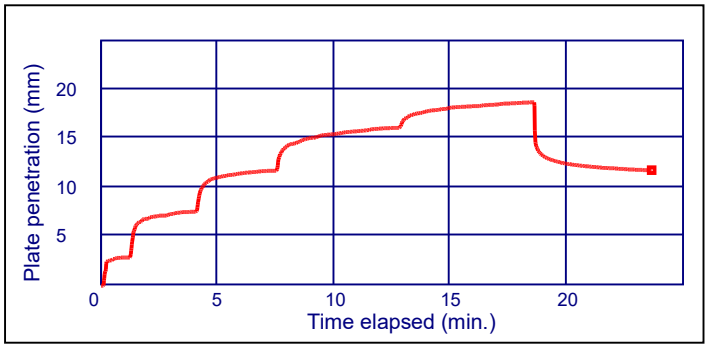


Plate Settlement (mm)	Applied Pressure (kN/m2)
0.00	0.0
2.87	47.8
7.59	98.3
11.77	143.7
16.17	197.2
18.79	245.0
11.82	0.0

	Cycle 1
Maximum Applied Pressure (kPa):	**245**
Maximum deformation (mm):	**18.79**
Modulus of subgrade reaction K (MN/m3):	**16.6**
K762 (MN/m3):	**13.4**
Estimated CBR (%):	**0.9**

Comments:

Approved Signature
Jackson Geo Services
James Mills
Engineering Geologist

Jackson Geo Services
Unit B3, Fram Enterprise Centre, Parc Busnes Edwards, Llantrisant, Pontyclun
Tel: 02920099796 Email: Team@jacksongeo.co.uk

PLATE LOADING TEST REPORT

in accordance with BS 1377 : Part 9 Cl. 4.1 : 1990
Incremental loading test

Project	Exeter Treatment	**Test No:**	PLT06
Client	UK Remediation	**Lab Ref No:**	G25039/06
		Date Reported	28.03.25
		Weather Conditions	Cloudy
Technician	IR	**Air Temperature °C**	15

Date Tested	28.03.2025	**Plate Dia (mm)**	600
Location	PLT06		
GPS Coord's	W 3°24'35.93', N 50°42'40.31'	**Depth (m)**	0
Material Type	Existing ground	**Reaction Type**	21t Excavator
No Cycles	1	**App Weight (kg)**	8

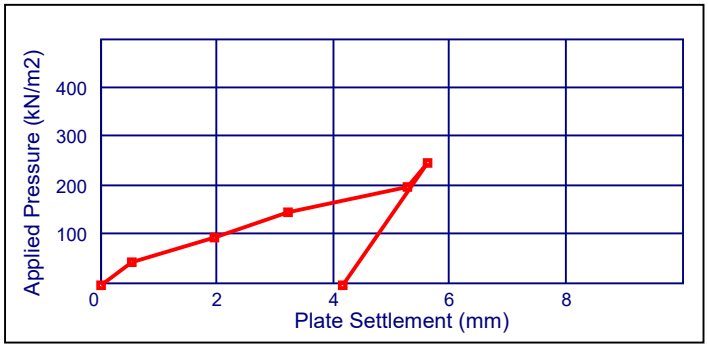
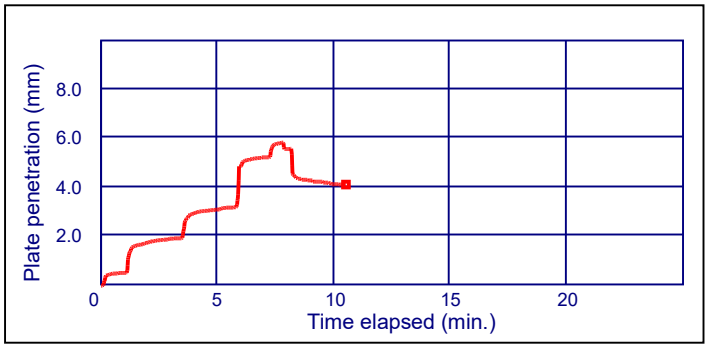


Plate Settlement (mm)	Applied Pressure (kN/m2)
0.00	0.0
0.53	47.6
1.94	98.1
3.21	149.5
5.26	201.4
5.61	251.1
4.15	-0.2



	Cycle 1
Maximum Applied Pressure (kPa):	**251**
Maximum deformation (mm):	**5.61**
Modulus of subgrade reaction K (MN/m3):	**58.7**
K762 (MN/m3):	**47.2**
Estimated CBR (%):	**7.7**

Comments:

Approved Signature
Jackson Geo Services
James Mills
Engineering Geologist