

# Technical Appendix 6-1 GI Factual Report

**EIAR – Volume 3**

**Muingmore Wind Farm**

SLR Project No.: 501.065301.00001

April 2026

# IRISH DRILLING LIMITED

LOUGHREA, CO. GALWAY, IRELAND



**CONTRACT DRILLING  
SITE INVESTIGATION**

Phone: (091) 841 274  
Fax: (091) 880 861

email: [info@irishdrilling.ie](mailto:info@irishdrilling.ie)

## MUINGMORE WIND FARM

### GROUND INVESTIGATION FACTUAL REPORT

SLR Consulting Ltd.,  
Dundrum Business Park,  
Windy Arbour,  
Dublin,  
D14 N2Y7.

	<b>Prepared by</b>	<b>Approved by</b>	<b>Rev. Issue Date:</b>	<b>Revision No.</b>
	Ronan Killeen	Declan Joyce	11 <sup>th</sup> March 2025	24_MO_117/02
<u>Signature</u>				

## FOREWORD

The borehole and trial pit records have been compiled from an examination of the samples by a Geotechnical Engineer and from the Drillers' descriptions.

The report presents an opinion on the configuration of the strata within the site based on the borehole and trial pit results. The assumptions, though reasonable, are given for guidance only and no liability can be accepted for changes in conditions not revealed by the boreholes and trial pits.

The fieldwork was carried out in accordance with IS EN 1997-2 and BS5930:2015+A1:2020 Code of Practice for Ground Investigations with precedence given to IS EN 1997-2 where applicable.

## Contents:

1.0	Introduction	Page 1
2.0	The Site & Geology	Page 1
3.0	Fieldwork	Page 1
4.0	Laboratory Testing	Page 4
Book 1 of 1		
Appendix 1	Borehole Records (Rotary Core)	
Appendix 2	Trial Pit Records	
Appendix 3	Laboratory Test Results	
Appendix 4	Trial Pit Photographs	
Appendix 5	Rotary Core Photographs	
Appendix 6	Site Plans	
Appendix 7	Digital Data (AGS)	

## **1 Introduction.**

Irish Drilling Ltd. (IDL) was instructed by SLR Consulting Limited to carry out a site investigation at the site of the proposed Muingmore Wind Farm. The proposed Muingmore Wind Farm will consist of thirteen turbines with ancillary roads and infrastructures.

This site investigation was carried out to provide detailed factual geotechnical information of the underlying ground conditions at the site.

The fieldwork commenced on September 23<sup>rd</sup> 2024 and was completed on November 20<sup>th</sup> 2024.

## **2 Site & Geology**

The site is located at Muingmore, approximately 8km west of Bangor Erris, County Mayo.

The fieldwork was carried out predominantly on agricultural lands and/or boglands. Weather conditions in general were quite variable with the majority of the fieldwork carried out over a typical winter period in Ireland.

Site Plans, prepared by the client's representatives to show approximate fieldwork locations, are included with this report as Appendix 6.

The following were the main published information sources used:  
Geological Map of Ireland: 1:500,000 scale map series.

Site investigation data is available as point source data along the proposed route, and the majority of the ground in between the points can only be assumed to follow the characteristics of the nearest available data.

### Overview of Subsoil Geology

#### Peat:

The deposition of peat occurred in post-glacial periods and is generally associated with the start of warmer and wetter climatic conditions. Peat is an unconsolidated usually dark brown to black organic material comprising a mixture of decomposed and undecomposed plant matter that accumulated in an acidic waterlogged environment. Peat has an extremely high-water content generally averaging over 90% by volume.

#### Glacial Till:

Glacial Till is what was often referred to as Boulder Clay. It is a diverse material that is largely deposited sub-glacially and has a wide range of characteristics due to the variety of parent materials and different processes of deposition. Tills are tightly packed, unsorted, heterogeneous, unbedded, and can have a wide range of particle sizes and types, which are often but not exclusively angular or sub-angular.

The type of parent material plays a critical role in providing the particles that create different subsoil permeability with sandstones giving rise to a high proportion of sand sized grains in the till matrix.

#### Made Ground:

Made Ground is material which has been purposefully emplaced by humans.

#### Solid Geology

The Geological Map of Ireland: (GSI 1:100,000 scale map series) indicate that the site is predominantly underlain by foliated orthogneisses of the Annagh Division.

### **3 Fieldwork.**

#### **3.1 Fieldwork Plant:**

The following plant was mobilised to site by IDL to carry out fieldwork operations:

1nr. Hitachi 130 12T Tracked Excavator.

1nr. GT1100 GoTract Rotary Core Drilling Rig.

1nr. Yanmarr All-Terrain Support Vehicle.

1nr. HQ Rotary Core Drill String.

1nr. Honda Water Supply Pump.

1nr. Drilling Water Recirculation Tank System.

Fieldwork carried out to date has included the following:

#### **3.2 Fieldwork Operations:**

A general summary of fieldwork operations carried out to date includes the following:

- Completion of 16nr Rotary Core Boreholes.
- Excavation of 32nr Trial Pits.
- Completion of Standard Penetration Tests in overburden at borehole locations.
- Installation of 3nr 50mm diameter standpipes at borehole locations.

#### **3.3 Rotary Core Boreholes:**

Sixteen rotary core boreholes were carried out to establish overburden conditions and rockhead and to establish the nature and integrity of the underlying rock.

Open hole drilling techniques were carried out in the boreholes to depths ranging from 1.50m to 6.00m below ground level. Openhole drilling was carried out in the peat layers where no recovery of same was expected be achieved using rotary core drilling techniques and to allow for the insertion of casing of the boreholes where necessary.

HQ drill strings ((64mm core diameter, 96mm hole diameter), using wireline drilling techniques, were then used to recover soil and rock core samples at the borehole locations.

The borehole depths ranged from 8.60m to 20.30m below ground level. The boreholes were carried out to target depths as instructed by the client representatives. Target depths were established by the client's representatives based on bedrock quality and bedrock depths encountered.

A water based flush system was used as the drilling medium while a biodegradable polymer gel was also used where necessary to aid the drilling and soil / rock recovery process.

The samples were stored in wooden boxes and returned to the laboratory where there were logged and photographed by a Geotechnical Engineer and presented for testing.

In-Situ testing consisting of Standard Penetration Tests were carried out in the overburden and as instructed by the client's representatives.

A 50mm diameter standpipe was installed in the following rotary core boreholes and as instructed by the Client's Engineer, to allow for monitoring of groundwater levels over a prolonged period of time:

BH-01

BH-06

BH-07

Detailed engineering logs for the rotary core boreholes completed are included with this report in Appendix 1.

### **3.4 Trial Pits:**

Thirty-two trial pits were excavated on site using a 12T tracked excavator.

The pits were logged and photographed by an Engineer with observations made on ground conditions, pit stability, water ingress and services encountered.

The pits were excavated to depths ranging from 2.20m to 4.50m below ground level. Trial pits were terminated in general once target depths were achieved and/or due to pit stability issues encountered and for further details on pit terminations please refer to the trial pit logs included as Appendix 2.

Small and bulk disturbed soil samples were recovered at each change in strata and returned to the laboratory and presented for testing.

Detailed engineering logs for the trial pits completed are included with this report in Appendix 2.

### **3.5 General Summary:**

The borehole and trial pit locations were set out using a Trimble CU Bluetooth GPS Surveying Unit and the co-ordinates are included on the logs presented in the appendices.

All fieldwork co-ordinates were recorded by the client's representatives and are reported to Irish Transverse Mercator (ITM).

Ground conditions encountered during the completion of the fieldwork were typical and as expected for this region and predominantly consisted of Glacial Tills overlying bedrock.

The Glacial Tills in general consisted of loose, medium dense and very dense brown slightly silty gravelly sand with cobbles and boulders and/or soft, firm and stiff brown slightly gravelly sandy silt with cobbles and boulders.

Peat was encountered in many of the fieldwork locations at depths ranging from 1.30m to 4.50m below ground level.

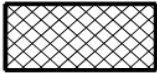





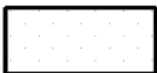

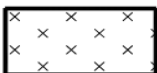
Made ground was encountered in many of the fieldwork locations and at depths ranging from 0.30m to 1.00m below ground level.

Intact bedrock was encountered in the boreholes at depths ranging from 3.50m to 13.90m below ground level. Weathered bedrock was also encountered in a number of the borehole at shallower depths.

Bedrock is predominantly described as extremely strong and very strong, thinly-foliated, fine and medium grained Orthogneiss.

For detailed descriptions of bedrock and ground conditions encountered please refer to the engineering logs included in the appendices of this report.

The following Key Legend Table details the symbology used on the engineering logs to describe ground conditions encountered:

Legend:			
	Made ground=mg		Clay=cl
	Boulders and cobbles=b/c		Peat=p
	Gravel=g		Silty sand=s/si
	Sand=s		Rock=r
	Silt=si		

The fieldwork was carried out in accordance with IS EN 1997-2 and BS5930:2015+A1:2020 Code of Practice for Site Investigations with precedence given to IS EN 1997-2 where applicable.

#### 6.4 Laboratory Testing

Representative samples recovered from the boreholes and trial pits were scheduled for testing in the laboratory.

The test schedules were prepared by the Client's Engineer and included the following tests on bulk disturbed soil samples:

Test Type:	Number
Moisture Content	45
Atterberg Limit	08
Particle Size Distribution	09
Chemical (Sulphate, Total)	07
Chemical (Total Sulphur)	56

The test schedules also included the following tests on rock core samples:

Test Type:	Number
UCS	12
Point Load	14

The test schedules were carried out predominantly at Structural Soils Laboratory located at Bristol, UK.

Chemical Tests were carried out by Envirolab Ltd., Hattersley, UK.

Structural Soils Ltd. and Envirolab Ltd. are both accredited to ISO/IEC 17025:2017 (UKAS).

Soil samples in general were recovered from the excavation of trial pits. Rock core samples were recovered from the completion of rotary core boreholes and the records of all laboratory test results are included with this report as Appendix 3.

The soil and rock descriptions as noted on the borehole and trial pit logs are in general visual descriptions as observed and logged by our Engineers and are described in accordance with IS EN 1997-2 and BS5930:2015+A1:2020 Code of Practice for Site Investigations.

Soils descriptions (cohesive or otherwise) are also initially assessed based on the texture and 'feel' of the soil materials as witnessed by our Geotechnical Engineers and in accordance with IS EN 1997-2 and BS5930:2015+A1:2020.

Where laboratory classification tests have been carried out on soil and/or rock samples then these visual descriptions have been amended accordingly to take into account the results of these classification tests.

The records of all fieldwork, laboratory test results and photographs are included in the appendices of this Factual Report.

Ronan Killeen  
Chartered Engineer  
Irish Drilling Limited  
March 11<sup>th</sup> 2025

# **Appendix 1 Borehole Records (Rotary Core)**



# DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-01</b>
Job No 2024MO117	Date 19-11-24 20-11-24	Ground Level (m OD)	Co-Ordinates () E 475,879.0 N 823,547.0		
Engineer SLR Consulting				Sheet 1 of 2 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red/cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00	-				(1.50)	0.00 - 6.40 : overburden.		Open hole drilling. No recovery.	
1.50	27				1.50			Subrounded to subangular fine to coarse quartzite quartz and granite GRAVEL.	
2.60	20	2.60 - (50/75mm)			(2.60)				
4.10	13				4.10			Orangish brown slightly silty fine and medium SAND.	
5.60	60 (22)				5.60			Subangular fine to coarse quartz and quartzite GRAVEL.	
7.10	93 (77)				6.40	6.40 - 11.60 Non-intact as weathered rock. No recovery as washout of fines during drilling. No record of cavity. 6.41 - 15.00 DISC, apparently very closely and closely spaced, dipping 10 to 12°, stepped, rough, with 0.5 to 6mm thick orangish brown silty fine and medium sand smear and black and dark orangish brown iron stain.		Strong locally very strong thinly foliated dark orangish brown with black and silver foliations fine and medium grained ORTHOGNEISS. Distinctly weathered with dark orangish brown iron stain with full diameter of core.	

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
19/11/24	17.00	4.10	1.50	96				0	15	Water	100	
20/11/24	08.00	4.10										

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



Irish drilling LTD

## DRILLHOLE LOG

Project <b>Muingmore WF</b>			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-01</b>
Job No <b>2024MO117</b>	Date <b>19-11-24</b> <b>20-11-24</b>	Ground Level (m OD)	Co-Ordinates () <b>E 475,879.0 N 823,547.0</b>		
Engineer <b>SLR Consulting</b>				Sheet <b>2 of 2</b> Status <b>FINAL</b>	

RUN DETAILS					STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	DESCRIPTION			
					Depth (Thick- ness)	Discontinuities	Detail	
8.60	44	NR		(8.60)			Strong locally very strong thinly foliated dark orangish brown with black and silver foliations fine and medium grained ORTHOGNEISS. Distinctly weathered with dark orangish brown iron stain with full diameter of core. <i>(continued)</i>	
10.10	67 (34) 8							
11.60	87 (38) 7					11.10 - 11.50 Joint, subvertical dip, stepped, smooth, with 0.5 to 2mm thick orangish brown slightly silty fine and medium sand and black and dark orangish brown iron stain, open.		
13.10	100 (59) 8	5			12.40 - 13.40 Joint, subvertical dip, stepped, smooth, with 0.5 to 3mm thick orangish brown slightly silty fine and medium sand and black and dark orangish brown iron stain, open to moderately wide.			
14.60	100 (57) 15	18			13.80 - 14.60 Joint, subvertical dip, stepped, smooth, with 0.5 to 3mm thick orangish brown slightly silty fine and medium sand and black and dark orangish brown iron stain, open to moderately wide.			
15.00	100 (90) 53	11					14.60m: medium strong.	
20.11	15.00	20						

IDL AGS4 UK DH (SPTS) MUIINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
20/11/24	16.00	15.00										BH terminated at 15.00m bgl on REs instruction. 50mm standpipe installed. Co-ordinates recorded and provided by client representative.
All dimensions in metres Scale 1:50		Client: RWE		Method/ Plant Used Rotary Core/CS14				Drill Bit HQ	Driller IP	Logged By EAT		



## DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-02</b>
Job No 2024MO117	Date 18-11-24 18-11-24	Ground Level (m OD)	Co-Ordinates () E 476,344.0 N 823,894.0		
Engineer SLR Consulting				Sheet 1 of 2 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00	-				(3.00)	0.00 - 6.40 : overburden.		Open hole drilling. No recovery.	
3.00	54				(1.10)			Plastic black amorphous PEAT.	
4.10	20				(2.30)			Subangular fine to coarse quartzite and granite GRAVEL.	
5.60	53 (33) 11	5.60 - (50/0mm)			6.40	6.40 - 13.10 DISC, medium spaced, locally very closely and closely spaced, dipping 10 to 12 and 42 to 45°, stepped, smooth, with 0.5 to 10mm thick greyish green silt smear. 6.80 - 6.95 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey clay smear, open. 7.30 - 7.90 Joint, subvertical dip, stepped, rough, with 0.5 to 10mm thick		Extremely strong thinly foliated whitish pink with black and silver micaceous foliations fine and medium grained ORTHOGNEISS.	
7.10	100 (55)	11							

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
			3.00	96				0	13.1	Water	100	BH terminated at 13.10m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used	Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	-----------------------	------------------	-----------------	---------------	------------------

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-02</b>
Job No 2024MO117	Date 18-11-24 18-11-24	Ground Level (m OD)	Co-Ordinates () E 476,344.0 N 823,894.0		
Engineer SLR Consulting				Sheet 2 of 2 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) ROD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
8.60	27	8				greyish green silt smear, open to wide. 8.00 - 8.60 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick greyish green silt smear, open.	Extremely strong thinly foliated whitish pink with black and silver micaceous foliations fine and medium grained ORTHOGNEISS. (continued)		
10.10	100 (96) 90	3			(6.70)	9.10 - 9.20 Joint, dipping 60°, stepped, smooth, with 0.5 to 1mm thick grey clay smear, open.			
11.60	100 (96) 90	3							
13.10	100 (94) 88	4				11.55 - 12.00 Joint, subvertical dip, undulating, tight.	12.40m: very strong.		
13.10		2			13.10				

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
18/11/24	17.00	13.10										BH terminated at 13.10m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-03</b>
Job No 2024MO117	Date 06-11-24 06-11-24	Ground Level (m OD)	Co-Ordinates () E 476,649.0 N 823,887.0		
Engineer SLR Consulting				Sheet 1 of 2 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00	-				(3.00)	0.00 - 6.40 : overburden.		Open hole drilling. No recovery.	
3.00	72				(1.10)			Plastic dark blackish brown amorphous PEAT.	
4.10	13				(2.30)			Subrounded to subangular fine to coarse quartzite and gneiss GRAVEL.	
5.60	67 (28) 11	5.60 - (50/75mm)			6.40			Very strong thinly foliated with grey silver and pink and black foliations fine and medium grained ORTHOGNEISS.	
7.10	100 (94)	6				6.40 - 11.60 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 3mm thick grey clay smear. 6.70 - 7.00 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey clay smear, open to 6.70m, then tight. 7.40 - 7.80 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick			

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
			3.00	96				0	11.6	Water	100	BH terminated at 11.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-03</b>
Job No 2024MO117	Date 06-11-24 06-11-24	Ground Level (m OD)	Co-Ordinates () E 476,649.0 N 823,887.0		
Engineer SLR Consulting				Sheet 2 of 2 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) ROD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
8.60	71	2			(5.20)	grey clay smear, open. 7.60 - 8.00 Joint, subvertical dip, undulating, tight.		Very strong thinly foliated with grey silver and pink and black foliations fine and medium grained ORTHOGNEISS. <i>(continued)</i>	
10.10	100 (97) 96	1				10.10 - 10.40 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey clay smear, open.			
11.60	100 (90) 63	6				10.70 - 10.80 Joint, dipping 60°, stepped, rough, with 0.5 to 1mm thick dark brown silt smear, open.			
11.60		2			11.60	10.70 - 10.90 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear, open.			

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
06/11/24	17.00	11.60										BH terminated at 11.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
---	-------------	---	-----------------	---------------	------------------



## DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-04</b>
Job No 2024MO117	Date 05-11-24 05-11-24	Ground Level (m OD)	Co-Ordinates () E 477,007.0 N 823,090.0		
Engineer SLR Consulting				Sheet 1 of 2 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00						0.00 - 9.50 : overburden.		Open hole drilling. No recovery.	
5.00					(5.00)				
5.60	17			x x x x	(0.60)			Grey silty fine and coarse SAND.	
7.10	20	5.60 - (50/75mm)		o o o o	(3.90)			Subangular to subrounded fine to coarse granite and quartzite GRAVEL.	
	13			o o o o					

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
			5.00	96				0	14.6	Water	100	BH terminated at 14.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-04</b>
Job No 2024MO117	Date 05-11-24 05-11-24	Ground Level (m OD)	Co-Ordinates () E 477,007.0 N 823,090.0		
Engineer SLR Consulting				Sheet 2 of 2 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
8.60	-						Subangular to subrounded fine to coarse granite and quartzite GRAVEL. <i>(continued)</i>		
	73 (32) 25				9.50				
10.10		3				9.50 - 14.60 DISC, medium spaced, locally closely spaced, dipping 48 to 52°, stepped, rough, with 0.5 to 10mm thick greenish grey clay smear.	Very strong thinly foliated with pink and dark grey foliations fine and coarse grained ORTHOGNEISS.		
	100 (88) 81	4							
11.60		4							
	100 (54) 25				(5.10)	11.80 - 12.80 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick greenish grey clay smear, open, then non-intact from 12.20m as angular medium and coarse gravel sized clasts.			
12.70						11.90 - 12.15 Joint, subvertical dip, undulating, tight.			
	100 (53) -					12.20 - 14.60 Non-intact as angular medium and coarse gravel sized clasts.			
13.50		NI				12.80 - 12.95 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick greenish grey clay smear, open.			
	100 (32) -					13.10 - 13.20 Joint, dipping 60°, stepped, rough, with 0.5 to 1mm thick greenish grey clay smear, open.			
14.60					14.60	13.35 - 14.60 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick orangish brown clay smear and green chloritic smear and surficial orangish brown iron stain and powder from 13.70m to 14.10m, open.			

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Dia	Core Dia	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)		
05/11/24	13.00	14.60									BH terminated at 14.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.	

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used	Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	-----------------------	------------------	-----------------	---------------	------------------



## DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-05</b>
Job No 2024MO117	Date 05-11-24 06-11-24	Ground Level (m OD)	Co-Ordinates () E 477,000.0 N 823,635.0		
Engineer SLR Consulting				Sheet 1 of 2 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00	-				(3.00)	0.00 - 9.60 : overburden.		Open hole drilling. No recovery.	
3.00	81				(1.10)			Plastic dark blackish brown amorphous PEAT.	
4.10	27				4.10			Subangular to subrounded fine to coarse psammite quartzite and assorted granite GRAVEL with a little grey clay.	
5.60	20	5.60 - (50/225mm)			(5.50)				
7.10	27								

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
			3.00	96				0	14.6	Water	100	BH terminated at 14.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used	Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	-----------------------	------------------	-----------------	---------------	------------------



## DRILLHOLE LOG

Project <b>Muingmore WF</b>			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-05</b>
Job No <b>2024MO117</b>	Date <b>05-11-24</b> <b>06-11-24</b>	Ground Level (m OD)	Co-Ordinates () <b>E 477,000.0 N 823,635.0</b>		
Engineer <b>SLR Consulting</b>				Sheet <b>2 of 2</b> Status <b>FINAL</b>	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red/cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
8.60	-						Subangular to subrounded fine to coarse psammite quartzite and assorted granite GRAVEL with a little grey clay. <i>(continued)</i>		
9.40	88								
10.10	100 (71) 70	0			9.60	9.60 - 14.60 DISC, medium spaced, locally very closely and closely spaced, dipping 12 to 14°, stepped, rough, with 0.5 to 1mm thick grey clay smear.	Extremely strong locally very strong thinly foliated with pink silver and black foliations fine and coarse grained ORTHOGNEISS.		
11.60	100 (96) 47	5			(5.00)	10.30 - 10.50 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey fine sandy clay smear, open. 10.55 - 10.75 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey fine sandy clay smear, open. 10.75 - 10.90 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey fine sandy clay smear, open.			
13.10	100 (83) 42	6				11.95 - 12.05 Joint, dipping 60°, stepped, smooth, with 0.5 to 1mm thick orangish brown clay smear and surficial orange and orangish brown iron stain and powder, open. 12.65 - 13.00 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick black and silver micaceous silt smear and minor surficial orangish brown iron stain and powder, open.			
14.60	100 (88) 66	4				13.05 - 13.20 Joint, subvertical dip, stepped, smooth, with 0.5 to 1mm thick orangish brown clay smear and surficial orange and orangish brown iron stain and powder, open. 13.75 - 13.95 Joint, subvertical dip, stepped, smooth, with 0.5 to 1mm thick orangish brown clay smear and surficial orange and orangish brown iron stain and powder, open.			
		6				14.40 - 14.60 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear and surficial dark orangish brown iron stain, open.			

IDL AGS4 UK DH (SPTS) MUIINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Dia	Core Dia	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)		
05/11/24	17.00	9.40									BH terminated at 14.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.	
06/11/24	08.00	9.40										
06/11/24	13.00	14.60										
All dimensions in metres Scale 1:50		Client: RWE		Method/ Plant Used Rotary Core/CS14			Drill Bit HQ	Driller IP	Logged By EAT			



Irish drilling LTD

# DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-06</b>
Job No 2024MO117	Date 01-11-24 04-11-24	Ground Level (m OD)	Co-Ordinates () E 477,562.0 N 823,171.0		
Engineer SLR Consulting				Sheet 1 of 3 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
0.00						0.00 - 13.10 : overburden.		Open hole drilling. No recovery.	
6.00					(6.00)				
7.10	9	6.00 - (19)			(2.60)			Medium dense subrounded fine to medium assorted quartzite GRAVEL with cobbles. Cobbles are of white quartz mica schist.	
20									

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
			6.00	96				0	20	Water	100	BH terminated at 20.00m bgl on REs instruction. 50mm standpipe installed. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



Irish drilling LTD

## DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-06</b>
Job No 2024MO117	Date 01-11-24 04-11-24	Ground Level (m OD)	Co-Ordinates () E 477,562.0 N 823,171.0		
Engineer SLR Consulting				Sheet 2 of 3 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
01.11 04.11	-				8.60			Medium dense subrounded fine to medium assorted quartzite GRAVEL with cobbles. Cobbles are of white quartz mica schist. <i>(continued)</i>	
	100						Very stiff light brownish green slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of granite quartz and quartzite.		
10.10						becoming green.			
	33				(4.50)				
11.60									
	53								
13.10					13.10	13.10 - 20.00 Non-intact as weathered rock. No recovery as washout of fines during drilling. No record of cavity.	Weathered rock. Medium strong and weak thinly foliated dark grey fine and medium grained orthogneiss recovered as angular fine to coarse gravel sized clasts with much dark grey micaceous silt and mica.		
14.60	87 (11)	NR							
	100 (27)	NI			(4.50)				

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
01/11/24	17.00	8.60										
04/11/24	08.00	8.60										

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-06</b>
Job No 2024MO117	Date 01-11-24 04-11-24	Ground Level (m OD)	Co-Ordinates () E 477,562.0 N 823,171.0		
Engineer SLR Consulting				Sheet 3 of 3 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
16.10	87 (13) -	NR			17.60			Weathered rock. Medium strong and weak thinly foliated dark grey fine and medium grained orthogneiss recovered as angular fine to coarse gravel sized clasts with much dark grey micaceous silt and mica. (continued)	
17.60	100 -	NI			(2.40)			Weathered rock. Medium strong and strong pinkish brownish white fine grained quartz recovered as angular fine to coarse gravel sized clasts.	
19.10	100 (15) -					20.00			
20.00									

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
04/11/24	17.00	20.00										BH terminated at 20.00m bgl on REs instruction. 50mm standpipe installed. Co-ordinates recorded and provided by client representative.
All dimensions in metres Scale 1:50			Client: RWE			Method/ Plant Used Rotary Core/CS14			Drill Bit HQ	Driller IP	Logged By EAT	



# DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-07</b>
Job No 2024MO117	Date 31-10-24 31-10-24	Ground Level (m OD)	Co-Ordinates () E 477,623.0 N 823,705.0		
Engineer SLR Consulting				Sheet 1 of 3 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00	-				(1.50)	0.00 - 8.30 : overburden.			Open hole drilling. No recovery.
1.50	18				(1.10)	No recovery - drillers description: PEAT.			
2.60	27	2.60 - (50/0mm)			(1.50)	Light pinkish white slightly silty fine SAND with cobbles. Cobbles of white granite.			
4.10	20				(1.50)	Very stiff light grey slightly sandy SILT. Sand is fine.			
5.60	15				(2.70)	Subangular medium to quartz assorted granite psammite and quartzite GRAVEL.			
7.20	33 (11)								

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS		
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)			
			1.50	96				0	20.3	Water	100	BH terminated at 20.30m bgl on REs instruction. 50mm standpipe installed. Co-ordinates recorded and provided by client representative.		
All dimensions in metres Scale 1:50								Client: RWE		Method/ Plant Used Rotary Core/CS14			Drill Bit HQ	Driller IP



## DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-07</b>
Job No 2024MO117	Date 31-10-24 31-10-24	Ground Level (m OD)	Co-Ordinates () E 477,623.0 N 823,705.0		
Engineer SLR Consulting				Sheet 2 of 3 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
8.70	-				8.30	8.30 - 13.40 Non-intact as weathered rock. No recovery as washout of fines during drilling. No record of cavity.	Weathered rock. Weak and medium strong thinly foliated dark blackish grey with dark orangish brown along foliations fine and medium grained orthogneiss displaying a well developed schistosity recovered as fine to medium sand and angular fine to coarse gravel sized clasts.		
10.20	67 (11)				(5.10)				
11.70	80 (7)	NR							
13.20	73 (9)								
14.70	86 (83) 63	3			13.40	13.40 - 20.30 DISC, medium spaced, locally closely spaced, dipping 8 to 10 and 40 to 45°, stepped, rough, with 0.5 to 3mm thick black mica smear and minor surficial dark orangish brown iron stain and powder.	Very strong thinly foliated white quartz and black mica fine grained ORTHOGNEISS displaying a well developed schistosity,		
		2				16.90 - 16.90 with pink garnets up to 8mm in diameter.	14.70m: weak.		
	100 (93) 91	1							

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
												BH terminated at 20.30m bgl on REs instruction. 50mm standpipe installed. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



## DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-07</b>
Job No 2024MO117	Date 31-10-24 31-10-24	Ground Level (m OD)	Co-Ordinates () E 477,623.0 N 823,705.0		
Engineer SLR Consulting				Sheet 3 of 3 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
16.20	100 (83) 81	4			(6.90)			Very strong thinly foliated white quartz and black mica fine grained ORTHOGNEISS displaying a well developed schistosity, (continued) 16.00m: medium strong.	
17.70									
19.20	100 (92) 78	3							
20.30									0

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
31/10/24	17.00	20.30										BH terminated at 20.30m bgl on REs instruction. 50mm standpipe installed. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



# DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-08</b>
Job No 2024MO117	Date 14-11-24 14-11-24	Ground Level (m OD)	Co-Ordinates () E 476,381.0 N 822,577.0		
Engineer SLR Consulting				Sheet 1 of 3 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00						0.00 - 7.10 : overburden.		Open hole drilling. No recovery.	
4.00					4.00				
					(0.50)			Plastic black amorphous PEAT.	
	38				4.50			Soft green slightly sandy SILT. Sand is medium.	
5.60		5.60 - (50/150mm)			5.60			Subrounded to subangular fine to coarse grey quartzite and pink granite GRAVEL.	
	20				(1.50)				
7.10					7.10				
	87 (47)	NR			(0.80)	7.10 - 7.90 Non-intact as weathered rock. No recovery as washout of fines during drilling. No record of cavity.		Weathered rock. Extremely strong locally weak and medium strong thinly foliated with orangish brown and black foliations fine and coarse grained orthogneiss recovered as angular fine to coarse gravel and cobble	
					7.90				

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)		
			4.00	96			0	17.3	Water	100	BH terminated at 17.30m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.	

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-08</b>
Job No 2024MO117	Date 14-11-24 14-11-24	Ground Level (m OD)	Co-Ordinates () E 476,381.0 N 822,577.0		
Engineer SLR Consulting				Sheet 2 of 3 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) ROD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
8.60	18	NR			(1.20)	7.90 - 9.10 No recovery as washout of fines during drilling. No record of cavity.	sized clasts with some dark orangish brown silt. Extremely strong thinly foliated orangish pink with silver and black foliations fine and medium grained ORTHOGNEISS. <i>(continued)</i> 8.30m: medium strong. 9.00m; weak.		
10.10	80 (38) 22	NR			9.10	9.10 - 13.90 Non-intact as weathered rock. No recovery as washout of fines during drilling. No record of cavity.	Weathered rock. Very strong locally medium strong and weak thinly foliated orangish pink with greenish grey and silver foliations fine and medium grained orthogneiss recovered as angular fine to coarse gravel and cobble sized clasts with some orangish brown silt and surficial orangish brown and dark orangish brown iron stain and powder.		
11.60	100 (5) -				(4.80)				
13.10	100 (25) -	NI							
14.60	100 (47) 21	15			13.90	13.90 - 17.30 DISC, very closely spaced, locally closely spaced to 15.60m, then medium spaced, locally closely spaced, dipping 12 to 14°, stepped, rough, with 0.5 to 5mm thick orangish brown clay smear and much surficial orangish brown iron stain and powder.	Extremely strong thinly foliated pinkish orangish brown with greyish green black and silver foliations fine and coarse grained ORTHOGNEISS displaying a well developed schistosity.		
	100 (68) 34	10			(3.40)	14.60 - 15.20 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick orangish brown clay smear and surficial orangish brown and dark orangish brown iron stain and powder, open. 15.30 - 15.45 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick			

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0 4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
												BH terminated at 17.30m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



Irish drilling LTD

### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-08</b>
Job No 2024MO117	Date 14-11-24 14-11-24	Ground Level (m OD)	Co-Ordinates () E 476,381.0 N 822,577.0		
Engineer SLR Consulting				Sheet 3 of 3 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
16.10	100 (70) 50	7				orangish brown clay smear and surficial orange and orangish brown iron stain and powder, open.	Extremely strong thinly foliated pinkish orangish brown with greyish green black and silver foliations fine and coarse grained ORTHOGNEISS displaying a well developed schistosity. (continued)		
17.10 - 17.30		2			17.30	17.10 - 17.30 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear and surficial dark orangish brown iron stain, open.			

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
14/11/24	17.00	17.30										BH terminated at 17.30m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



# DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-09</b>
Job No 2024MO117	Date 13-11-24 13-11-24	Ground Level (m OD)	Co-Ordinates () E 476,466.0 N 822,149.0		
Engineer SLR Consulting				Sheet 1 of 2 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
0.00	-				(1.50)	0.00 - 4.60 : overburden.		Open hole drilling. No recovery.	
1.50	9				1.50			Subrounded to subangular fine to coarse quartz and granite GRAVEL.	
2.60		2.60 - (20)			(3.10)	medium dense.			
4.10	7				4.60				
5.60	87 (39) 26				(2.35)	4.60 - 6.95 DISC, very closely and closely spaced, locally medium spaced, dipping 18 to 20°, stepped, rough, with 0.5 to 10mm thick black micaceous silt smear.		Medium strong thinly foliated black with occasional white foliations fine grained ORTHOGNEISS displaying a well developed schistosity.	
7.10	100 (63) 33				6.95	5.60 - 5.60 strong. 5.80 - 5.80 weak. 6.80 - 6.80 very strong locally strong. 6.25 - 6.40 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick black micaceous silt smear, open.			
					(0.55)	6.80 - 6.95 Non-intact as weathered rock. 6.95 - 6.95 weak. 6.95 - 7.50 quartz vein.		Strong thinly foliated white QUARTZ vein.	
	100 (90)				7.50	7.80 - 7.80 medium strong locally strong. 7.50 - 10.10 DISC, medium spaced,			

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations					Rotary Flush				GENERAL REMARKS	
Date	Time	Depth	Casing Dia	Core Dia	From (m)	To (m)	Type	Return (%)		
			1.50	96		0	10.1	Water	100	BH terminated at 10.10m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-09</b>
Job No 2024MO117	Date 13-11-24 13-11-24	Ground Level (m OD)	Co-Ordinates () E 476,466.0 N 822,149.0		
Engineer SLR Consulting				Sheet 2 of 2 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) ROD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
8.60	71	NR			(2.60)	dipping 42 to 45°, stepped, rough, with 0.5 to 1mm thick black micaceous silt smear.	Extremely strong locally strong and very strong thinly foliated dark grey with white foliations fine and coarse grained ORTHOGNEISS displaying a well developed schistosity. (continued)		
10.10	100 (91) 72		10.10	10.10	10.10 - 10.10 becoming light grey with black and silver foliations. 9.80 - 10.10 Joint, subvertical dip, undulating, rough, with 0.5 to 2mm thick dark orangish brown silt smear and minor surficial orangish brown iron stain and powder, open. 9.95 - 10.10 Joint, subvertical dip, undulating, rough, with 0.5 to 2mm thick dark orangish brown silt smear and minor surficial orangish brown iron stain and powder, open.				

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
13/11/24	17.00	10.10										BH terminated at 10.10m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



# DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-10</b>
Job No 2024MO117	Date 12-11-24 13-11-24	Ground Level (m OD)	Co-Ordinates () E 476,248.0 N 821,939.0		
Engineer SLR Consulting				Sheet 1 of 2 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00	-				(1.50)	0.00 - 3.50 : overburden.		Open hole drilling. No recovery.	
1.50	55				1.50 (0.90) 2.40			Plastic black amorphous PEAT.	
2.60	87 (17)	2.60 - (50/0mm)			(1.10) 3.50			Subangular fine to coarse psammite quartzite and assorted granite GRAVEL with a little greenish grey micaceous silt.	
4.10	100 (91) 61	8			(5.10)	3.50 - 8.60 DISC, medium spaced, locally very closely and closely spaced, dipping 58 to 60°, stepped, rough, with 0.5 to 6mm thick orangish brown micaceous silt smear.		Very strong locally extremely strong thinly foliated white with black foliations fine grained ORTHOGNEISS displaying a well developed schistosity.	
5.60	100 (84) 58	6						5.00m; medium strong. 5.30m; strong.	
7.10	100 (84)	6							

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
12/11/24	17.00	5.60	1.50	96				0	8.6	Water	100	
13/11/24	08.00	5.60										

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



Irish drilling LTD

### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-10</b>
Job No 2024MO117	Date 12-11-24 13-11-24	Ground Level (m OD)	Co-Ordinates () E 476,248.0 N 821,939.0		
Engineer SLR Consulting				Sheet 2 of 2 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
13.11 8.60	62	4			8.60				

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
13/11/24	12.00	8.60										BH terminated at 8.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



Irish drilling LTD

# DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-11</b>
Job No 2024MO117	Date 11-11-24 12-11-24	Ground Level (m OD)	Co-Ordinates () E 476,578.0 N 821,827.0		
Engineer SLR Consulting				Sheet 1 of 2 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00	-				(2.00)	0.00 - 8.30 : overburden.		Open hole drilling. No recovery.	
2.00	50	NI			2.00 2.10			Plastic black amorphous PEAT.	
2.60	-	2.60 - (19)						Medium dense subangular fine to coarse quartzite and granite GRAVEL.	
2.70	5								
4.10	27	13			(3.80)				
5.60	13	8							
5.90	8				5.90				
7.10	53	8						Dark brown silty micaceous fine SAND.	
7.40	40 (11)	9			(2.40)				

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
			2.00	96				0	14	Water	100	BH terminated at 14.00m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-11</b>
Job No 2024MO117	Date 11-11-24 12-11-24	Ground Level (m OD)	Co-Ordinates () E 476,578.0 N 821,827.0		
Engineer SLR Consulting				Sheet 2 of 2 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
8.60	-	6		x x	8.30	8.30 - 14.00 DISC, very closely and closely spaced to 8.80m, then medium spaced to 10.20m, then very closely and closely spaced to 12.00, then medium spaced, locally closely spaced, dipping 14 to 16 and 56 to 60°, stepped, rough, with 0.5 to 3mm thick dark grey micaceous silt smear.	Dark brown silty micaceous fine SAND. (continued)		
	100 (97) 84	5					Very strong thinly foliated dark grey with pink foliations fine and medium grained ORTHOGNEISS displaying a developed schistosity.  9.10m; strong.		
10.10						9.60 - 9.90 Joint, subvertical dip, undulating, open to 9.60m to 9.70m as drilling induced, then open.			
11.60	100 (79) 35				(5.70)	14.00 - 14.00 becoming light whitish pink with silver and black micaceous foliations.			
12.60	100 (67) 45								
14.00	100 (82) 50				14.00				

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations									Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)		
11/11/24	17.00	10.10										BH terminated at 14.00m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.	
12/11/24	08.00	10.10											
12/11/24	12.00	14.00											

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



# DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-12</b>
Job No 2024MO117	Date 25-10-24 26-10-24	Ground Level (m OD)	Co-Ordinates () E 477,077.0 N 821,787.0		
Engineer SLR Consulting				Sheet 1 of 3 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
0.00	-				(1.50)	0.00 - 10.10 : overburden.		Open hole drilling. No recovery.	
1.50	23				1.50			Subangular to subrounded fine to coarse quartz and granite GRAVEL with cobbles. Cobbles are of quartzite and granite.	
2.80	20								
4.30	23	6			(5.40)				
5.60	27	5							
7.10	47	7			6.90				
		NR			7.10			Stiff brown slightly sandy SILT. Sand is fine.	
		6						Subangular to subrounded fine to coarse quartz and granite GRAVEL with cobbles. Cobbles are of quartzite and granite.	

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations									Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)		
25/10/24	17.00	5.60	3.00	96				0	14.7	Water	100		
29/10/24	08.00	5.60											

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller JP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



# DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-12</b>
Job No 2024MO117	Date 25-10-24 26-10-24	Ground Level (m OD)	Co-Ordinates () E 477,077.0 N 821,787.0		
Engineer SLR Consulting				Sheet 2 of 3 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red/cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
8.60	-	1			(3.00)			Subangular to subrounded fine to coarse quartz and granite GRAVEL with cobbles. Cobbles are of quartzite and granite. <i>(continued)</i>	
	67	NI							
10.10					10.10	10.10 - 14.70 DISC, extremely closely and closely spaced, locally very closely, dipping 14 to 16°, stepped, rough, with 0.5 to 6mm thick greyish green silt smear and minor surficial orangish brown iron stain.	10.10m: weak.	Extremely strong thinly foliated white with black and silver foliations fine and medium grained ORTHOGNEISS displaying a weakly developed schistosity.	
	100 (84) 39	NR							
11.60						11.30 - 11.30 strong locally medium strong thinly foliated pink with black and silver foliations.			
	100 (51) 13				(4.60)	10.60 - 10.60 white calcite vein. 10.85 - 11.30 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick greenish brown clay smear, open.			
12.90						12.00 - 12.00 brownish grey with pink grey and silver foliations.			
	100 (40) 13	1				11.85 - 11.85 brownish white quartz vein.			
14.20						12.90 - 12.90 medium strong locally weak greenish orangish brown distinctly weathered.			
14.70	100 (84) 17	5				12.95 - 13.10 Joint, subvertical dip, undulating, tight. 13.30 - 13.40 Joint, subvertical dip, undulating, tight. 13.45 - 14.30 Joint, subvertical dip, stepped, rough, with 0.5 to 6mm thick orangish brown silt smear and surficial orangish brown iron stain, open to moderately wide.			
		13				14.70 - 14.70 pink foliations fine grained. 14.60 - 14.70 Joint, vertical dip, stepped, rough, with 0.5 to 1mm thick reddish			

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Dia	Core Dia	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)		
29/10/24	17.00	14.70									BH terminated at 14.70m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.	

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller JP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-12</b>
Job No 2024MO117	Date 25-10-24 26-10-24	Ground Level (m OD)	Co-Ordinates () E 477,077.0 N 821,787.0		
Engineer SLR Consulting				Sheet 3 of 3 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
						brown silt smear and surficial orangish brown and dark orangish brown iron stain and powder, open.			

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
												BH terminated at 14.70m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller JP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



## DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-13</b>
Job No 2024MO117	Date 30-10-24 30-10-24	Ground Level (m OD)	Co-Ordinates () E 477,043.0 N 822,338.0		
Engineer SLR Consulting				Sheet 1 of 3 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00	-				(1.50)	0.00 - 13.90 : overburden.		Open hole drilling. No recovery.	
1.50	7				(1.10)		No recovery - drillers description: PEAT.		
2.60	20				(3.00)		Plastic dark blackish brown amorphous PEAT.		
4.10	20				(3.00)				
5.60	20				(4.20)			Subangular to subrounded fine to coarse quartzite quartz and granite GRAVEL.	
7.10	20				(4.20)				

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
			1.50	96				0	17.6	Water	100	BH terminated at 17.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used	Rotary Core/CS14	Drill Bit HQ	Driller JP	Logged By EAT
--	-------------	-----------------------	------------------	-----------------	---------------	------------------



## DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-13</b>
Job No 2024MO117	Date 30-10-24 30-10-24	Ground Level (m OD)	Co-Ordinates () E 477,043.0 N 822,338.0		
Engineer SLR Consulting				Sheet 2 of 3 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
8.60	-						Subangular to subrounded fine to coarse quartzite quartz and granite GRAVEL. <i>(continued)</i>		
	33				9.80				
10.10					(1.80)		Very stiff brown slightly sandy gravelly SILT with cobbles. Sand is fine to coarse. Gravel is subangular fine to medium of quartz quartzite and granite GRAVEL. Cobbles are of quartzite and granite.		
11.60	67				11.60				
	53				(2.30)		Subangular to subrounded fine to coarse quartzite and granite GRAVEL.		
13.10	80 (31) 15				13.90				
14.60		18				13.90 - 17.60 DISC, closely spaced and extremely closely spaced, locally very closely spaced, dipping 12 to 14 and 58 to 60°, planar, locally stepped, rough, locally smooth, with 0.5 to 6mm thick dark greyish brown silt and orangish brown clay smear and minor surficial orangish brown iron stain and powder.	Extremely strong locally very strong thinly foliated pink and grey with black and silver foliations fine and medium grained ORTHOGNEISS displaying a weakly developed schistosity.		
	100 (55) 14	6			(3.70)	14.70 - 14.70 strong locally medium strong.			

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				<b>GENERAL REMARKS</b>
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
												BH terminated at 17.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used	Rotary Core/CS14	Drill Bit HQ	Driller JP	Logged By EAT
--	-------------	-----------------------	------------------	-----------------	---------------	------------------



Irish drilling LTD

### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-13</b>
Job No 2024MO117	Date 30-10-24 30-10-24	Ground Level (m OD)	Co-Ordinates () E 477,043.0 N 822,338.0		
Engineer SLR Consulting				Sheet 3 of 3 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
16.10	100 (59) 31	10			17.60 - 17.60 with pinks foliations up to 50mm thick interfoliated with grey silver and black foliations.	Extremely strong locally very strong thinly foliated pink and grey with black and silver foliations fine and medium grained ORTHOGNEISS displaying a weakly developed schistosity. (continued)			
17.60		16				17.60	16.80m; weak.		

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
30/10/24	16.30	17.60										BH terminated at 17.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller JP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



Irish drilling LTD

# DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-MM1</b>
Job No 2024MO117	Date 07-11-24 07-11-24	Ground Level (m OD)	Co-Ordinates () E 476,528.0 N 823,508.0		
Engineer SLR Consulting				Sheet 1 of 3 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00	-	-			(1.50)	0.00 - 7.10 : overburden.		Open hole drilling. No recovery.	
1.50	20	8		x x x x	1.50			Plastic black amorphous PEAT.	
2.60	20	17		x x x x	(1.10)				
4.10	20	230 - (50/225mm)		o o o o	2.60			Subangular to subrounded fine to coarse quartzite and pink granite GRAVEL.	
5.60	33	4		o o o o	(4.50)				
7.10	100 (65)	NI		o o o o	7.10				
		1		o o o o					
		10		o o o o					
		8		o o o o					
		NR		o o o o		7.10 - 12.80 DISC, very closely and closely spaced, locally medium spaced, dipping 12 to 14°, stepped, rough, with 0.5 to 3mm thick orangish brown clay smear. 7.30 - 7.80 Joint, subvertical dip.		Very strong thinly foliated white with black and silver foliations fine and medium grained ORTHOGNEISS displaying a developed schistosity.	

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS		
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)			
			1.50	96				0	12.5	Water	100	BH terminated at 12.80m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.		
All dimensions in metres Scale 1:50								Client: RWE		Method/ Plant Used Rotary Core/CS14			Drill Bit HQ	Driller IP



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-MM1</b>
Job No 2024MO117	Date 07-11-24 07-11-24	Ground Level (m OD)	Co-Ordinates () E 476,528.0 N 823,508.0		
Engineer SLR Consulting				Sheet 2 of 3 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) ROD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION		
						Discontinuities	Detail	
8.60	29					stepped, smooth, with 0.5 to 10mm thick greyish green silt smear, open to wide. 7.90 - 8.05 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick orangish brown clay smear and surficial orangish brown iron stain and powder, open.	Very strong thinly foliated white with black and silver foliations fine and medium grained ORTHOGNEISS displaying a developed schistosity. <i>(continued)</i> 8.60m; medium strong. 8.80m: strong.	
	100 (87) 54	NI				9.40 - 9.40 becoming extremely strong orangish pinkish brown.		
10.10		6			(5.70)	12.80 - 12.80 becoming pinkish white. 9.50 - 9.65 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick greyish green smear, open. 9.95 - 10.50 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey mottled orange clay smear and minor surficial orangish brown iron stain and powder, open. 10.30 - 10.80 Joint, subvertical dip, undulating, tight. 11.05 - 11.15 Joint, dipping 60°, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear and surficial orange and orangish brown iron stain and powder, open. 11.80 - 12.05 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey clay smear and surficial orange iron stain and powder, open.		
11.60	100 (85) 43	NR				12.10 - 12.20 Joint, dipping 60°, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear, open. 12.40 - 12.60 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey mottled orangish brown clay smear and surficial orangish brown iron stain and powder, open. 12.60 - 12.80 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear and surficial orange and orangish brown iron stain and powder, open.		
12.80	100 (70) 13	NI			12.80			
		13						
		12						
		6						

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
07/11/24	12.00	12.80										BH terminated at 12.80m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



Irish drilling LTD

### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-MM1</b>
Job No 2024MO117	Date 07-11-24 07-11-24	Ground Level (m OD)	Co-Ordinates () E 476,528.0 N 823,508.0		
Engineer SLR Consulting				Sheet 3 of 3 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
		6							

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
												BH terminated at 12.80m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



Irish drilling LTD

# DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-MM2</b>
Job No 2024MO117	Date 15-11-24 15-11-24	Ground Level (m OD)	Co-Ordinates () E 476,183.0 N 822,933.0		
Engineer SLR Consulting				Sheet 1 of 2 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00	-				(3.00)	0.00 - 6.10 : overburden.		Open hole drilling. No recovery.	
3.00	9				3.00				
4.10	20				(3.10)			Subangular to subrounded fine to coarse schist quartz quartzite GRAVEL with a little light greenish grey silt.	
5.60	67 (22)	5.60 - (50/0mm)			6.10				
7.10	73 (57)	NI			(1.90)	6.10 - 8.00 Non-intact as weathered rock. No recovery as washout of fines during drilling. No record of cavity.		Weathered rock. Strong locally medium strong thinly foliated white with dark grey foliations fine and medium grained orthogneiss recovered as fine to medium sand and angular fine to coarse gravel sized clasts with some mica.	
					8.00				

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
			3.00	96				0	14.4	Water	100	BH terminated at 14.40m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-MM2</b>
Job No 2024MO117	Date 15-11-24 15-11-24	Ground Level (m OD)	Co-Ordinates () E 476,183.0 N 822,933.0		
Engineer SLR Consulting				Sheet 2 of 2 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) ROD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
8.60	21				(1.20)	8.00 - 14.40 DISC, medium spaced, locally very closely and closely spaced, dipping 12 to 14°, stepped, rough, with 0.5 to 3mm thick orangish brown clay smear and surficial orangish brown iron stain and powder.	Extremely strong locally medium strong and strong white gray and pink QUARTZ vein.		
	100 (61) 23	8			9.20	9.20 - 9.80 Non-intact as angular fine to coarse gravel sized clasts with a orangish brown clay.	Very strong thinly foliated white with black and silver foliations fine and medium grained ORTHOGNEISS displaying a developed schistosity.		
10.10		NI				10.30 - 10.30 extremely strong subvertical white mottled pink quartz vein.			
	100 (83) 71	3							
11.60		6							
	100 (83) 64	4			(5.20)				
13.10		12				12.90 - 12.90 extremely strong subvertical white mottled pink quartz vein.			
	100 (73) 26	9				12.65 - 12.90 Joint, subvertical dip, stepped, smooth, with 0.5 to 5mm thick dark orangish brown clay smear and much surficial dark orangish brown iron stain and powder, open to moderately wide.			
14.40		4			14.40	13.40 - 13.40 becoming black and silver with greenish white foliations.			
						13.80 - 14.40 Joint, subvertical dip, stepped, smooth, with 0.5 to 2mm thick dark orangish brown clay smear and surficial orangish brown and dark orangish brown iron stain and powder, open.			

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Dia	Core Dia	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)		
15/11/24	17.00	14.40									BH terminated at 14.40m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.	

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



### DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		DRILLHOLE No <b>BH-SS</b>
Job No 2024MO117	Date 07-11-24 08-11-24	Ground Level (m OD)	Co-Ordinates () E 476,371.0 N 823,463.0		
Engineer SLR Consulting				Sheet 1 of 3 Status FINAL	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
0.00						0.00 - 12.60 : overburden.		Open hole drilling. No recovery.	
4.00					4.00			Plastic black amorphous PEAT.	
	31				(1.30)				
					5.30				
5.60		5.60 - (5)			5.60			Greenish grey slightly silty fine and medium SAND.	
	7							Loose subangular to subrounded fine to coarse quartzite and granite GRAVEL with cobbles and a little greyish green silt. Cobbles are of pink orthogneiss.	
7.10									
	20				(4.50)				

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
			4.00	96				0	17.6	Water	100	BH terminated at 17.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25



Irish drilling LTD

## DRILLHOLE LOG

Project <b>Muingmore WF</b>			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-SS</b>
Job No <b>2024MO117</b>	Date <b>07-11-24</b> <b>08-11-24</b>	Ground Level (m OD)	Co-Ordinates () <b>E 476,371.0 N 823,463.0</b>		
Engineer <b>SLR Consulting</b>				Sheet <b>2 of 3</b> Status <b>FINAL</b>	

RUN DETAILS						STRATA			Instrument/ Backfill
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red/cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail	Main	
8.60	-						Loose subangular to subrounded fine to coarse quartzite and granite GRAVEL with cobbles and a little greyish green silt. Cobbles are of pink orthogneiss. (continued)		
10.10	27						Light greenish grey slightly silty fine and medium SAND.		
11.60	20						Subangular fine to coarse pink orthogneiss GRAVEL.		
13.10	53 (14)				12.60 - 17.60 DISC, apparently very closely and closely spaced, dipping 10 to 18°, stepped, rough, with 0.5 to 6mm thick green silt smear to 13.60m, then with 1 to 5mm thick orangish brown clay smear. 12.61 - 16.10 Non-intact as weathered rock. No recovery as washout of fines during drilling. No record of cavity.		Medium strong thinly foliated dark pink with dark blackish grey foliations fine and medium grained ORTHOGNEISS displaying a weakly developed schistosity.		
14.60	73 (41) 20	NR			14.20 - 15.40 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick orangish brown clay smear and much orange and orangish brown iron stain and powder, open.		14.70m: weak.		
	87 (36) 9				16.10 - 16.10 becoming very strong thinly foliated pink with silver foliations fine and coarse grained. 14.60 - 14.80 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick orangish brown clay smear and much				

Drilling Progress and Water Observations								Rotary Flush				<b>GENERAL REMARKS</b>
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
07/11/24	17.00	10.10										
08/11/24	08.00	10.10										

All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used	Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	-----------------------	------------------	-----------------	---------------	------------------

IDL AGS4 UK DH (SPTS) MUIINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25



Irish drilling LTD

## DRILLHOLE LOG

Project Muingmore WF			Location Co. Mayo		<b>DRILLHOLE No</b>  <b>BH-SS</b>
Job No 2024MO117	Date 07-11-24 08-11-24	Ground Level (m OD)	Co-Ordinates () E 476,371.0 N 823,463.0		
Engineer SLR Consulting				Sheet 3 of 3 Status FINAL	

RUN DETAILS					STRATA			Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION			
						Discontinuities	Detail		Main
16.10	100 (69) 46	16			17.60	orange and orangish brown iron stain and powder, open.		Medium strong thinly foliated dark pink with dark blackish grey foliations fine and medium grained ORTHOGNEISS displaying a weakly developed schistosity. <i>(continued)</i>	
08.11 17.60		3				16.60 - 16.60 with dark grey fine to coarse gravel sized fine grained inclusions.			

Drilling Progress and Water Observations								Rotary Flush				<b>GENERAL REMARKS</b>
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
08/11/24	16.00	17.60										BH terminated at 17.60m bgl on REs instruction. BH backfilled. Co-ordinates recorded and provided by client representative.

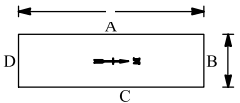
All dimensions in metres Scale 1:50	Client: RWE	Method/ Plant Used Rotary Core/CS14	Drill Bit HQ	Driller IP	Logged By EAT
--	-------------	---	-----------------	---------------	------------------



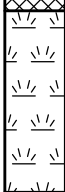

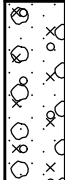

IDL AGS4 UK DH (SPTS) MUINGMORE WF RC FILE 1 DEC 10 2024.GPJ ID.GINT AGS 4.0.4.GDT 20/2/25

# Appendix 2

## Trial Pit Records

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-01</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,112.0 N 823,338.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 23.9.24</b>

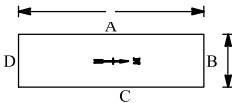
<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>	 Shoring/Support: N/A Stability: Pit slightly unstable.
---	---	---

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.60	MADE GROUND: Brown gravelly SILT with imported stone as floating road. 0.60m: Terram matting.	
1			B 1 D 2	0.60-1.20 0.60-1.20				1.80	Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W0 TV1 TH1 A1.	
2			B 3 D 4	2.00-2.50 2.00-2.50				3.00	Brown gravelly silty SAND with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone and sandstone. Boulders are subangular to subrounded of siltstone and sandstone.	
3						<b>END</b>				
4										
5										
6										
7										
8										
9										
10										








<b>Remarks:</b> TP dry on excavation. TP terminated at 3.00m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-02</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,228.0 N 823,491.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>

<b>Ground level: m O.D.</b>	<b>DATE: 23.9.24</b>
<b>GROUNDWATER</b> Water strikes: Rose to after: 1st: 2.40m 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b> 

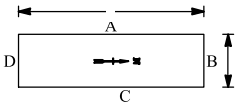
Shoring/Support: N/A  
Stability: Pit slightly unstable.



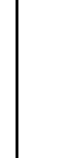

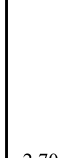

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										MADE GROUND: Greyish brown gravelly SILT with imported stone as floating road.	
1									1.00	Spongy dark brown pseudo fibrous PEAT. H5 B2 F3 R2 W1 TV1 TH1 A1.	
2			B 1 D 2	1.50-2.00 1.50-2.00							
3			B 3 D 4	2.50-3.00 2.50-3.00							
4			B 5 D 6	4.20-4.50 4.20-4.50					4.20		
5									4.50	Greyish brown silty gravelly SAND with rare cobbles. Cobbles are subangular and subrounded of siltstone.	
5							<b>END</b>				
6											
7											
8											
9											
10											

**Remarks:** Seepage of water at 2.40m bgl. TP terminated at 4.50m bgl - maximum reach of excavator. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.

**Scale:**  
**1:50**

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-03</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,325.0 N 823,771.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>

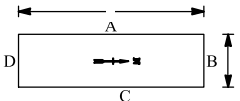
<b>Ground level: m O.D.</b>	<b>DATE: 23.9.24</b>
<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>  Shoring/Support: N/A Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									MADE GROUND - ROAD: Brown gravelly sandy SILT and imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50				0.80	Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W1 TV1 TH1 A1.	
3			B 3 D 4	3.00-3.50 3.00-3.50				2.70 3.50	Greyish brown gravelly silty SAND with rare cobbles and rare boulders. Cobbles are subangular of siltstone. Boulders are subangular of siltstone.	
4						<b>END</b>				
5										
6										
7										
8										
9										
10										

<b>Remarks:</b> TP dry on excavation. TP terminated at 3.50m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-04</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,414.0 N 824,033.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 23.9.24</b>

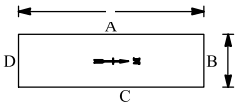
<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>	 Shoring/Support: N/A Stability: Pit slightly unstable.
---	---	---


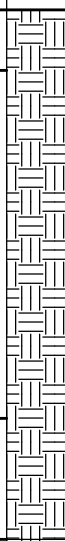
















Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0						[Cross-hatch pattern]		0.30	MADE GROUND - ROAD: Brown gravelly sandy SILT and imported stone.	[Cross-hatch pattern]
1			1 2	1.00-1.50 1.00-1.50		[Downward arrows]			Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W0 TV1 TH1 A1.	[Cross-hatch pattern]
2						[Downward arrows]				
3			3 4	2.50-3.00 2.50-3.00		[Downward arrows]				
3						[Downward arrows]		3.10		[Cross-hatch pattern]
						<b>END</b>				
4										
5										
6										
7										
8										
9										
10										

<b>Remarks:</b> TP dry on excavation. TP terminated at 3.10m bgl. Obstruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-05</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,536.0 N 822,986.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 23.9.24</b>

<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st: 2.70m 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>		Shoring/Support: N/A Stability: Pit slightly unstable.
--	---	--	---

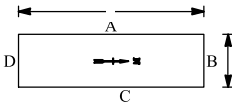
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/Backfill
0									0.40	MADE GROUND - ROAD: Brown gravelly sandy SILT and imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50			          			Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W1 TV1 TH1 A0.	
3			B 3 D 4	3.00-3.50 3.00-3.50			   		2.70	Brown silty gravelly SAND with occasional cobbles. Cobbles are subrounded to subangular of siltstone.	
							<b>END</b>		3.50		
4											
5											
6											
7											
8											
9											
10											

<b>Remarks:</b> Ingress of water at 2.70m bgl. TP terminated at 3.50m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
---	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

**PROJECT:** Muingmore WF  
**LOCATION:** Co. Mayo  
**CLIENT:** RWE  
**ENGINEER:** SLR Consulting  
**Co-ordinates:** E 476,649.0 N 823,331.0  
**TRIALPIT:** TP-06  
**Sheet 1 of 1**  
**Rig:** Hitachi 130  
**Rev:** FINAL

**Ground level:** m O.D.  
**GROUNDWATER**  
**Water strikes:** Rose to after:  
 1st: 3.70m  
 2nd:  
 3rd:  
**PIT DIRECTION:** 0°  
**PIT DIMENSION:** 3.00m \* 1.00  
**LOGGED BY:** DOR  
 Shoring/Support: N/A  
 Stability: Pit slightly unstable.

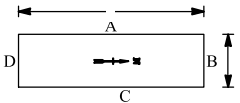


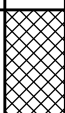


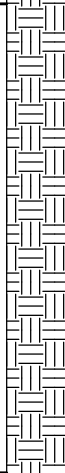
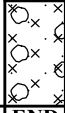

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/Backfill
0									0.40	MADE GROUND - ROAD: Brown gravelly sandy SILT with imported stone as floating road.	
1			1 2	1.00-1.50 1.00-1.50					2.90	Spongy dark brown pseudo fibrous PEAT. H5 B2 F3 R1 W1 TV1 TH1 A1.	
3			3 4	3.00-3.40 3.00-3.40					3.40	Stiff to very stiff brown gravelly sandy SILT with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
4			5 6	4.00-4.50 4.00-4.50					4.50	Firm grey slightly gravelly silty SAND with occasional cobbles. Cobbles are subrounded to subangular of siltstone.	
5							END				
6											
7											
8											
9											
10											

**Remarks:** Seepage of water at 3.70m bgl. TP terminated at 4.50m bgl - maximum reach of excavator. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.  
**Scale:** 1:50

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-07</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,784.0 N 823,730.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 24.9.24</b>

<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>	 Shoring/Support: N/A Stability: Pit slightly unstable.
---	---	---

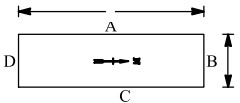
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.70	MADE GROUND - ROAD: Brown gravelly sandy SILT and imported stone as floating road.	
1			B 1 D 2	1.50-2.00 1.50-2.00				3.80	Spongy dark brown slightly sandy pseudo fibrous PEAT. H5 B2 F3 R1 W1 TV1 TH1 A1.	
2										
3										
4			B 3 D 4	4.00-4.50 4.00-4.50				4.50	Firm greyish brown very sandy SILT with rare cobbles. Cobbles are subangular to subrounded of siltstone.	
5						<b>END</b>				
6										
7										
8										
9										
10										


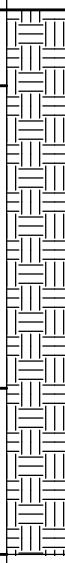
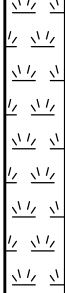
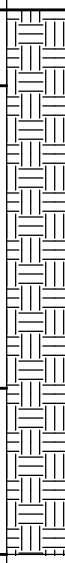

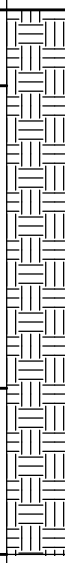
**Remarks:** TP dry on excavation. TP terminated at 4.50m bgl - maximum reach of excavator. TP backfilled with arisings.  
Co-ordinates recorded and provided by client representative.

**Scale:**  
**1:50**

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-08</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,836.0 N 822,764.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 25.9.24</b>

<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>	 Shoring/Support: N/A Stability: Pit slightly unstable.
---	---	---

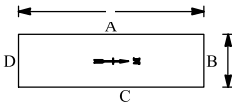
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.50	MADE GROUND - ROAD: Brown gravelly sandy SILT with imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50				2.50	Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W0 TV1 TH1 A0.	
3			B 3 D 4	3.00-3.50 3.00-3.50				3.60	Firm grey slightly gravelly sandy SILT with rare cobbles. Cobbles are subangular to subrounded of siltstone.	
4						END				
5										
6										
7										
8										
9										
10										

<b>Remarks:</b> TP dry on excavation. TP terminated at 3.60m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

**PROJECT:** Muingmore WF  
**LOCATION:** Co. Mayo  
**CLIENT:** RWE  
**ENGINEER:** SLR Consulting  
**Co-ordinates:** E 476,955.0 N 823,113.0  
**TRIALPIT:** TP-09  
**Sheet 1 of 1**  
**Rig:** Hitachi 130  
**Rev:** FINAL

**Ground level:** m O.D.  
**GROUNDWATER**  
 Water strikes: Rose to after:  
 1st: dry  
 2nd:  
 3rd:  
**PIT DIRECTION:** 0°  
**PIT DIMENSION:** 3.00m \* 1.00  
**LOGGED BY:** DOR  
 Shoring/Support: N/A  
 Stability: Pit slightly unstable.

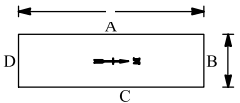


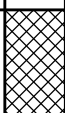





Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.70	MADE GROUND - ROAD: Brown gravelly SILT with imported stone.	
1			B 1 D 2	1.50-2.00 1.50-2.00					Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W0 TV1 TH1 A1.	
2										
3										
4			B 3 D 4	3.60-4.00 3.60-4.00				3.60	Stiff brownish grey slightly gravelly sandy SILT with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
4						END		4.00		
5										
6										
7										
8										
9										
10										

**Remarks:** TP dry on excavation. TP terminated at 4.00m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.  
**Scale:** 1:50

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-10</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 477,041.0 N 823,380.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 24.9.24</b>

<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>		Shoring/Support: N/A Stability: Pit slightly unstable.
---	---	--	---

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.70	MADE GROUND - ROAD: Brown gravelly sandy SILT and imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50				2.50	Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W1 TV1 TH1 A1.	
3			B 3 D 4	3.00-3.50 3.00-3.50				3.60	Greyish brown silty very gravelly SAND with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone. Boulders are subangular to subrounded of siltstone. 3.00-3.60: becoming greyish.	
4						<b>END</b>				
5										
6										
7										
8										
9										
10										

<b>Remarks:</b> TP dry on excavation. TP terminated at 3.60m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-11</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 477,113.0 N 823,589.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 24.9.24</b>

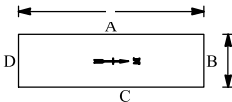
<b>GROUNDWATER</b>	<b>PIT DIRECTION: 0°</b>		Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse.
Water strikes:      Rose to after:	<b>PIT DIMENSION: 3.00m * 1.00</b>		
1st:    dry	<b>LOGGED BY: DOR</b>		

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/Backfill
0									0.70	MADE GROUND - ROAD: Brown gravelly SILT and imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50						Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W1 TV1 TH1 A1.	
2											
3			B 3 D 4	3.30-3.70 3.30-3.70					3.30		
4									3.70	Firm greyish brown slightly gravelly sandy SILT with rare cobbles. Cobbles are subangular to subrounded of siltstone.	
4							<b>END</b>				
5											
6											
7											
8											
9											
10											

<b>Remarks:</b>	TP dry on excavation. TP terminated at 3.70m bgl. Unable to keep TP open - sidewall collapse. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
-----------------	--	------------------------------

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-12</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 477,109.0 N 822,588.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>

<b>Ground level: m O.D.</b>	<b>DATE: 25.9.24</b>
<b>GROUNDWATER</b> Water strikes: Rose to after: 1st: 3.60m 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>



Shoring/Support: N/A  
Stability: Pit slightly unstable.

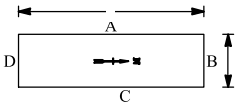
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/Backfill
0									0.50	MADE GROUND - ROAD: Brown gravelly SILT and imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50						Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W1 TV1 TH1 A1.	
2											
3											
4			B 3 D 4	4.10-4.50 4.10-4.50					4.10		
4									4.50	Firm brown slightly gravelly sandy SILT with occasional cobbles. Cobbles are subrounded to subangular of sandstone and siltstone.	
5							<b>END</b>				
6											
7											
8											
9											
10											

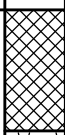

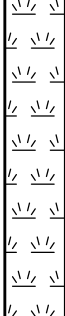

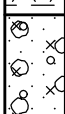
**Remarks:** Seepage of water at 3.60m bgl. TP terminated at 4.50m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.

**Scale:**  
1:50

TRIALPIT MUINGMORE WF TPS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-13</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 477,420.0 N 823,234.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 25.9.24</b>

<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    3.00m 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>	 Shoring/Support: N/A Stability: Pit slightly unstable.
---	---	---

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.80	MADE GROUND - ROAD: Brown gravelly SILT and imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50					Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W0 TV1 TH1 A1.	
3			B 3 D 4	3.00-3.50 3.00-3.50				3.00 3.70	Brown mottled grey silty very gravelly SAND with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
4						END				
5										
6										
7										
8										
9										
10										

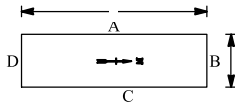
**Remarks:** Ingress of water at 3.00m bgl. TP terminated at 3.70m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.

**Scale:**  
1:50

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

**PROJECT:** Muingmore WF  
**LOCATION:** Co. Mayo  
**CLIENT:** RWE  
**ENGINEER:** SLR Consulting  
**Co-ordinates:** E 477,583.0 N 823,701.0  
**TRIALPIT:** TP-14  
**Sheet 1 of 1**  
**Rig:** Hitachi 130  
**Rev:** FINAL

**Ground level:** m O.D.  
**GROUNDWATER**  
**Water strikes:** 1st: dry 2nd: 3rd:  
**Rose to after:**  
**PIT DIRECTION:** 0°  
**PIT DIMENSION:** 3.00m \* 1.00  
**LOGGED BY:** DOR  
**DATE:** 24.9.24  
 Shoring/Support: N/A  
 Stability: Pit slightly unstable.



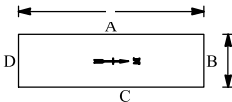
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									0.60	MADE GROUND - ROAD: Brown gravelly SILT and imported stone.	
1			B1 D2	1.00-1.50 1.00-1.50					2.20	Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W1 TV1 TH1 A1.	
2							END				
3											
4											
5											
6											
7											
8											
9											
10											

**Remarks:** TP dry on excavation. TP terminated at 2.20m bgl. Obstruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.  
**Scale:** 1:50

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-15</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,448.0 N 822,737.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>

<b>Ground level: m O.D.</b>	<b>DATE: 26.9.24</b>
<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>



Shoring/Support: N/A  
Stability: Pit slightly unstable.

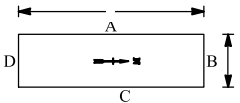
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.40	MADE GROUND - ROAD: Brown gravelly SILT with stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50					Spongy dark grey mottled brown pseudo fibrous PEAT. H5 B2 F3 R2 W1 TV1 TH1 A1.	
2										
3										
4			B 3 D 4	3.50-4.00 3.50-4.00				3.40	Brown silty very gravelly SAND with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
4						<b>END</b>		4.20		
5										
6										
7										
8										
9										
10										


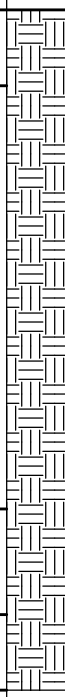





<b>Remarks:</b> TP dry on excavation. TP terminated at 4.20m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25



<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-16</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,377.0 N 822,544.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 26.9.24</b>

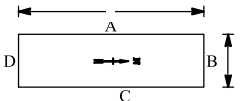
<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>		Shoring/Support: N/A Stability: Pit slightly unstable.
---	---	--	---

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.50	MADE GROUND - ROAD: Brown gravelly SILT and imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50					Spongy dark brown pseudo fibrous PEAT. H5 B2 F3 R2 W0 TV1 TH1 A1.	
2										
3										
4			B 3 D 4	3.50-4.00 3.50-4.00				3.30	Brown silty very gravelly SAND with occasional cobbles. Cobbles are subangular to subrounded of sandstone and siltstone.	
4			B 5 D 6	4.00-4.50 4.00-4.50				4.00	Soft bluish grey gravelly sandy SILT with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
4.50						<b>END</b>				
5										
6										
7										
8										
9										
10										

<b>Remarks:</b> TP dry on excavation. TP terminated at 4.50m bgl - maximum reach of excavator. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-17</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,303.0 N 822,335.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 26.9.24</b>

<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>	 Shoring/Support: N/A Stability: Pit stable.
---	---	--

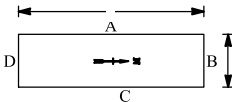
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.40	MADE GROUND - ROAD: Brown gravelly SILT and stone.	
1				1.50-2.00				1.30	Spongy dark brown pseudo fibrous PEAT. H5 B2 F3 R1 W1 TV1 TH1 A1.	
2			B 1 D 2	1.50-2.00					light brown slightly silty gravelly SAND with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of sandstone and siltstone. Boulders are subangular to subrounded of sandstone and siltstone.	
3			B 3 D 4	3.00-3.50 3.00-3.50				3.50		
4						<b>END</b>				
5										
6										
7										
8										
9										
10										

<b>Remarks:</b> TP dry on excavation. TP terminated at 3.50m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
---	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-18</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,632.0 N 821,779.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>

<b>Ground level: m O.D.</b>	<b>DATE: 25.9.24</b>
<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st: 2.80m 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>



Shoring/Support: N/A  
Stability: Pit slightly unstable.

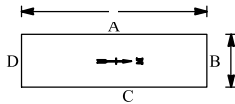
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/Backfill
0									0.50	MADE GROUND - ROAD: Brown gravelly SILT and imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50						Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W1 TV1 TH1 A1.	
2											
3			B 3 D 4	3.00-3.50 3.00-3.50					3.00		
									3.50	Stiff light brown gravelly sandy SILT with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone. Boulders are subangular to subrounded of siltstone.	
							<b>END</b>				
4											
5											
6											
7											
8											
9											
10											

<b>Remarks:</b> Seepage of water at 2.80m bgl. TP terminated at 3.50m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
---	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4 0 4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-19</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,790.0 N 822,651.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>

<b>Ground level: m O.D.</b>	<b>DATE: 25.9.24</b>
<b>GROUNDWATER</b> Water strikes: Rose to after: 1st: dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>



Shoring/Support: N/A  
Stability: Pit slightly unstable.

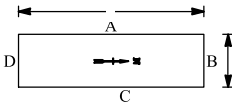
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									0.50	MADE GROUND - ROAD: Brown gravelly SILT with imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50						Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W1 TV1 TH1 A1.	
2											
3			B 3 D 4	3.00-3.50 3.00-3.50					3.00	Greenish brown slightly silty gravelly SAND with occasional cobbles. Cobbles are subrounded to subangular of siltstone.	
4			B 5 D 6	4.00-4.50 4.00-4.50					3.90	Soft bluish grey slightly gravelly sandy SILT with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
4.50							<b>END</b>				
5											
6											
7											
8											
9											
10											

**Remarks:** TP dry on excavation. TP terminated at 4.50m bgl - maximum reach of excavator. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.

**Scale:**  
**1:50**

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-20</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 477,125.0 N 822,500.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>

<b>Ground level: m O.D.</b>	<b>DATE: 26.9.24</b>
<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>



Shoring/Support: N/A  
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/Backfill
0									0.40	MADE GROUND - ROAD: Brown gravelly SILT with stone.	
1			1 2	1.00-1.50 1.00-1.50					2.20	Spongy dark brown pseudo fibrous PEAT. H6 B2 F3 R1 W1 TV1 TH1 A1.	
2			3 4	2.50-3.00 2.50-3.00					3.30	Brown slightly clayey slightly gravelly SAND with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
3							<b>END</b>				
4											
5											
6											
7											
8											
9											
10											

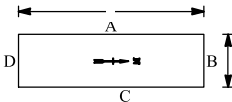
**Remarks:** TP dry on excavation. TP terminated at 3.30m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.

**Scale:**  
**1:50**

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-21</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 477,056.0 N 822,318.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>

<b>Ground level: m O.D.</b>	<b>DATE: 26.9.24</b>
<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>



Shoring/Support: N/A  
Stability: Pit slightly unstable.

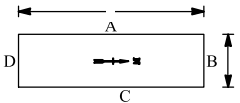
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.40	MADE GROUND - ROAD: Brown gravelly SILT and stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50					Spongy dark brown pseudo fibrous PEAT. H6 B2 F3 R1 W1 TV1 TH1 A1.	
2										
3										
4			B 3 D 4	3.60-4.00 3.60-4.00				3.60	Brown slightly silty very gravelly SAND with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone. Boulders are subangular to subrounded of siltstone.	
4.50						<b>END</b>		4.50		
5										
6										
7										
8										
9										
10										



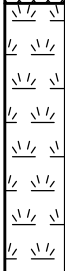
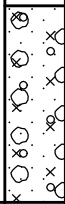
<b>Remarks:</b> TP dry on excavation. TP terminated at 4.50m bgl - maximum reach of excavator. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
---	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25



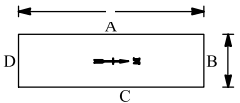
<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-22</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 477,064.0 N 821,958.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 27.9.24</b>


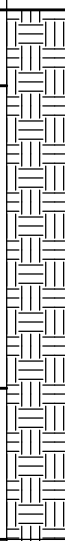

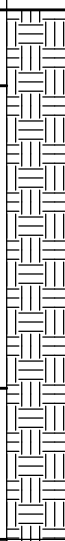
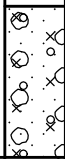
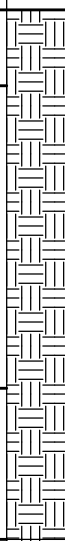
<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>	 Shoring/Support: N/A Stability: Pit slightly unstable.
---	---	---

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.40	MADE GROUND - ROAD: Brown gravelly SILT and stone.	
1			1 2	1.00-1.50 1.00-1.50				2.20	Spongy dark brown pseudo fibrous PEAT. H7 B2 F3 R1 W1 TV1 TH1 A1.	
2			3 4	2.50-3.00 2.50-3.00				3.50	Brown slightly silty gravelly SAND with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone and sandstone. Boulders are subangular to subrounded of siltstone and sandstone.	
3						<b>END</b>				
4										
5										
6										
7										
8										
9										
10										

<b>Remarks:</b> TP dry on excavation. TP terminated at 3.50m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-23</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 477,077.0 N 821,787.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 27.9.24</b>

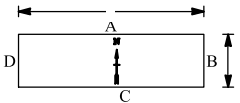
<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>	 Shoring/Support: N/A Stability: Pit slightly unstable.
---	---	---


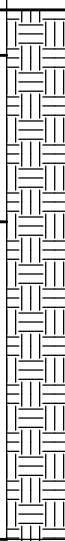
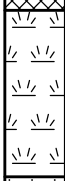
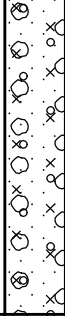
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.50	MADE GROUND - ROAD: Brown gravelly SILT and imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50				2.50	Spongy dark brown pseudo fibrous PEAT. H7 B2 F3 R2 W1 TV1 TH1 A1.	
3			B 3 D 4	3.00-3.50 3.00-3.50				3.50	Brown slightly silty gravelly SAND with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone and sandstone. Boulders are subangular to subrounded of siltstone and sandstone.	
4						<b>END</b>				
5										
6										
7										
8										
9										
10										

<b>Remarks:</b> TP dry on excavation. TP terminated at 3.50m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-24</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,213.0 N 821,944.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 25.9.24</b>

<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 90°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>	 Shoring/Support: N/A Stability: Pit stable.
---	--	--

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0								0.30	MADE GROUND - ROAD: Brown gravelly SILT and imported stone.	
1			1 2	1.00-1.40 1.00-1.40				1.40	Spongy dark brown pseudo fibrous PEAT. H57 B2 F3 R1 W2 TV1 TH1 A1.	
2			3 4	2.50-3.00 2.50-3.00				3.50	Brown silty gravelly SAND with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone and sandstone. Boulders are subangular to subrounded of siltstone and sandstone.	
3						<b>END</b>				
4										
5										
6										
7										
8										
9										
10										

**Remarks:** TP dry on excavation. TP terminated at 3.50m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.

**Scale:**  
**1:50**

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-25</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 477,040.0 N 823,140.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 5.10.24</b>

<b>GROUNDWATER</b>	<b>PIT DIRECTION: 90°</b>		Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse.
Water strikes:      Rose to after:	<b>PIT DIMENSION: 3.00m * 1.00</b>		
1st: 1.70m	<b>LOGGED BY: DOR</b>		

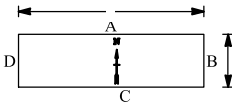
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							▽			Spongy dark brown pseudo fibrous PEAT. H6 B2 F3 R1 W0 TV1 TH1 A1.	
0.5							▽				
1							▽				
1.5							▽				
2							▽				
2.5							▽				
2.50-3.00				2.50-3.00			▽				
3							▽				
3.5							▽				
4							▽				
4.5							▽				
4.50							▽				
5							END				
6											
7											
8											
9											
10											

<b>Remarks:</b>	Moderate ingress of water at 1.70m bgl. TP terminated at 4.50m bgl - maximum reach of excavator. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
-----------------	---	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-26</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,970.0 N 823,681.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>

<b>Ground level: m O.D.</b>	<b>DATE: 5.10.24</b>
<b>GROUNDWATER</b> Water strikes: Rose to after: 1st: 2.40m 2nd: 3rd:	<b>PIT DIRECTION: 90°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>



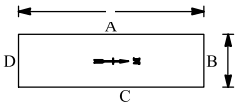
Shoring/Support: N/A  
Stability: Pit unstable. Sidewall collapse.







Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							▽			Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R1 W0 TV1 TH1 A0.	
1							▽				
2							▽				
2.50-3.00		↓	B1 D2	2.50-3.00			▽				
3							▽				
4							▽		4.00		
4							END				
5											
6											
7											
8											
9											
10											

<b>Remarks:</b> Rapid ingress of water at 2.40m bgl. TP terminated at 4.00m bgl. Unable to keep TP open - sidewall collapse. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
---	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

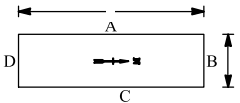
<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-28</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,448.0 N 822,213.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 15.11.24</b>

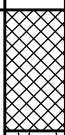

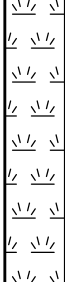

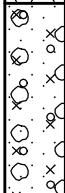


<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>	 Shoring/Support: N/A Stability: Pit stable.
---	---	--

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									Spongy dark brown pseudo fibrous PEAT. H6 B2 F2 R2 W0 TV1 TH1 A1.	
1								1.00	Light brown silty very gravelly SAND with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone. Boulders subangular to subrounded of siltstone.	
2			B 1 D 2	1.50-2.00 1.50-2.00				2.40		
3						<b>END</b>				
4										
5										
6										
7										
8										
9										
10										

<b>Remarks:</b> TP dry on excavation. TP terminated at 2.40m bgl. Obstruction as possible rock or boulders. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-29</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,700.0 N 823,489.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 7.11.24</b>

<b>GROUNDWATER</b> Water strikes:      Rose to after: 1st:    dry 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>	 Shoring/Support: N/A Stability: Pit slightly unstable.
---	---	---

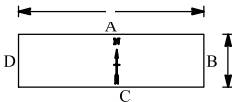
Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									MADE GROUND - ROAD: Brown gravelly SILT and imported stone.	
1			B 1 D 2	1.00-1.50 1.00-1.50				0.80	Spongy dark brown pseudo fibrous PEAT. H7 B2 F3 R2 W1 TV1 TH1 A1.	
3			B 3 D 4	3.00-3.50 3.00-3.50				2.70	Brown silty gravelly SAND with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
4						END		4.00		
5										
6										
7										
8										
9										
10										

<b>Remarks:</b> TP dry on excavation. TP terminated at 4.00m bgl on REs instruction. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-30</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,537.0 N 823,509.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>

<b>Ground level: m O.D.</b>	<b>DATE: 7.11.24</b>
<b>GROUNDWATER</b> Water strikes: <b>Rose to after:</b> 1st: 2.60m 2nd: 3rd:	<b>PIT DIRECTION: 90°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>



Shoring/Support: N/A  
Stability: Pit unstable. Sidewall collapse.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/Backfill
0							▽			Spongy dark brown pseudo fibrous PEAT. H6 B2 F2 R1 W1 TV1 TH1 A0.	
1			B1 D2	1.00-1.50 1.00-1.50			▽				
2		↓					▽		2.60		
3			B3 D4	3.00-3.50 3.00-3.50			○			Light brown very silty very gravelly SAND with rare cobbles. Cobbles are subangular to subrounded of siltstone.	
4							END		3.60		
5											
6											
7											
8											
9											
10											

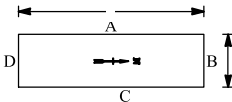
<b>Remarks:</b> Moderate ingress of water at 2.60m bgl. TP terminated at 3.60m bgl. Unable to keep TP open - sidewall collapse. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4 0 4.GDT 25/2/25



<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-31</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,180.0 N 822,935.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>

<b>Ground level: m O.D.</b>	<b>DATE: 15.11.24</b>
<b>GROUNDWATER</b> Water strikes: Rose to after: 1st: 1.10m 2nd: 3rd:	<b>PIT DIRECTION: 0°</b> <b>PIT DIMENSION: 3.00m * 1.00</b> <b>LOGGED BY: DOR</b>



Shoring/Support: N/A  
Stability: Pit unstable. Sidewall collapse.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N)	In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/Backfill
0							▽			Spongy dark brown pseudo fibrous PEAT. H6 B2 F2 R1 W0 TV1 TH1 A1.	
1		↓	1 2	1.00-1.50 1.00-1.50			▽				
2							▽				
3							END		2.90		
4											
5											
6											
7											
8											
9											
10											

**Remarks:** Seepage of water at 1.10m bgl. TP terminated at 2.90m bgl. Unable to keep TP open - sidewall collapse. TP backfilled with arisings.  
Co-ordinates recorded and provided by client representative.

**Scale:**  
**1:50**

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4 0 4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-32</b>
<b>LOCATION: Co. Mayo</b>		Sheet 1 of 1
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 477,515.0 N 823,025.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 31.10.24</b>

<b>GROUNDWATER</b>	<b>PIT DIRECTION: 90°</b>		Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse.
Water strikes:      Rose to after: 1st:    dry	<b>PIT DIMENSION: 3.00m * 1.00</b>		
2nd: 3rd:	<b>LOGGED BY: DOR</b>		

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0						↘ ↙			Spongy dark brown pseudo fibrous PEAT. H6 B2 F3 R1 W1 TV1 TH1 A1.	
1						↘ ↙				
2						↘ ↙				
3			B 1 D 2	2.50-3.00 2.50-3.00		↘ ↙				
4						↘ ↙		4.50		
5						<b>END</b>				
6										
7										
8										
9										
10										

<b>Remarks:</b> TP dry on excavation. TP terminated at 4.50m bgl - maximum reach of excavator. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.	<b>Scale:</b> <b>1:50</b>
--	------------------------------

TRIALPIT MUINGMORE WF TFS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25

<b>PROJECT: Muingmore WF</b>		<b>TRIALPIT: TP-CC</b>
<b>LOCATION: Co. Mayo</b>		<b>Sheet 1 of 1</b>
<b>CLIENT: RWE</b>	<b>Co-ordinates:</b> E 476,384.0 N 823,030.0	<b>Rig: Hitachi 130</b>
<b>ENGINEER: SLR Consulting</b>		<b>Rev: FINAL</b>
<b>Ground level: m O.D.</b>		<b>DATE: 15.11.24</b>

<b>GROUNDWATER</b>	<b>PIT DIRECTION: 90°</b>		Shoring/Support: N/A Stability: Pit stable.
Water strikes:      Rose to after: 1st:    dry	<b>PIT DIMENSION: 3.00m * 1.00</b>		
2nd: 3rd:	<b>LOGGED BY: DOR</b>		

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									Spongy dark brown pseudo fibrous PEAT. H6 B3 F2 R1 W1 TV1 TH1 A1.	
1			1 2	1.00-1.50 1.00-1.50						
2								2.00		
3			3 4	2.50-3.00 2.50-3.00					Stiff greyish brown slightly gravelly sandy SILT with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone. Boulders subangular to subrounded of siltstone.	
4						<b>END</b>		3.80		
5										
6										
7										
8										
9										
10										

**Remarks:** TP dry on excavation. TP terminated at 3.80m bgl. Obstruction as possible boulders. TP backfilled with arisings. Co-ordinates recorded and provided by client representative.

**Scale:**  
**1:50**

TRIALPIT MUINGMORE WF TPS ALL FILE NOV 19 2024.GPJ ID GINT AGS 4\_0\_4.GDT 25/2/25



# Appendix 3

## Laboratory Test Results

Project ID	2024MO117	Structural Soils Report number 752151
Project Name	Muingmore WF	Envirolab Reports: 24/12/24, 25/00517
Schedule ID	2024MO117_1	Report Date: 20.02.25

Sample Details							Classification				Rock		Other		
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Size Distribution	Sulphate Total	Rock Uniaxial compression	Point Load	UCS Specimen depth (m)	PL Specimen 1 depth (m)	Comments
Total Scheduled							45	8	9	7	12	14			
BH-01	0.00	1.50	C		19/11/24										
BH-01	1.50	2.60	C		19/11/24										
BH-01	2.60	4.10	C		19/11/24										
BH-01	4.10	5.60	C		20/11/24										
BH-01	5.60	7.10	C		20/11/24										
BH-01	7.10	8.60	C		20/11/24										
BH-01	8.60	10.10	C		20/11/24										
BH-01	10.10	11.60	C		20/11/24										
BH-01	11.60	13.10	C		20/11/24										
BH-01	13.10	14.60	C		20/11/24										
BH-01	14.60	15.00	C		20/11/24		Wrap specimens and send to StSoil				*	2	none possible	14.6-14.8	
BH-02	0.00	3.00	C		18/11/24										
BH-02	3.00	4.10	C		18/11/24										
BH-02	4.10	5.60	C		18/11/24										
BH-02	5.60	7.10	C		18/11/24										
BH-02	7.10	8.60	C		18/11/24										
BH-02	8.60	10.10	C		18/11/24										
BH-02	10.10	11.60	C		18/11/24										
BH-02	11.60	13.10	C		18/11/24		Wrap specimens and send to StSoil				1	2	12.4-12.6	12.1-12.3	
BH-03	0.00	3.00	C		06/11/24										
BH-03	3.00	4.10	C		06/11/24										
BH-03	4.10	5.60	C		06/11/24										
BH-03	5.60	7.10	C		06/11/24										
BH-03	7.10	8.60	C		06/11/24		Wrap specimens and send to StSoil				1	2	8.2-8.4	7.9-8.1	
BH-03	8.60	10.10	C		06/11/24										
BH-03	10.10	11.60	C		06/11/24										
BH-04	0.00	5.00	C		05/11/24										
BH-04	5.00	5.60	C		05/11/24										
BH-04	5.60	7.10	C		05/11/24										
BH-04	7.10	8.60	C		05/11/24										
BH-04	8.60	10.10	C		05/11/24										
BH-04	10.10	11.60	C		05/11/24		Wrap specimens and send to StSoil				1	2	11.0-11.3	11.0-11.2	
BH-04	11.60	12.70	C		05/11/24										
BH-04	12.70	13.50	C		05/11/24										
BH-04	13.50	14.60	C		05/11/24										
BH-05	0.00	3.00	C		05/11/24										
BH-05	3.00	4.10	C		05/11/24										
BH-05	4.10	5.60	C		05/11/24										
BH-05	5.60	7.10	C		05/11/24										
BH-05	7.10	8.60	C		05/11/24										
BH-05	8.60	9.40	C		05/11/24										
BH-05	9.40	10.10	C		06/11/24		Wrap specimens and send to StSoil				1	2	9.9-10.1	9.5-9.7	
BH-05	10.10	11.60	C		06/11/24										
BH-05	11.60	13.10	C		06/11/24										
BH-05	13.10	14.60	C		06/11/24										
BH-06	0.00	6.00	C		01/11/24										
BH-06	6.00	7.10	C		01/11/24										
BH-06	7.10	8.60	C		01/11/24										
BH-06	8.60	10.10	C		04/11/24										
BH-06	10.10	11.60	C		04/11/24										
BH-06	11.60	13.10	C		04/11/24										
BH-06	13.10	14.60	C		04/11/24										
BH-06	14.60	16.10	C		04/11/24		Wrapped specimens to StSoils				*	*	none possible	none possible	
BH-06	16.10	17.60	C		04/11/24										
BH-06	17.60	19.10	C		04/11/24										
BH-06	19.10	20.00	C		04/11/24										
BH-07	0.00	1.50	C		31/10/24										
BH-07	1.50	2.60	C		31/10/24										
BH-07	2.60	4.10	C		31/10/24										
BH-07	4.10	5.60	C		31/10/24										
BH-07	5.60	7.20	C		31/10/24										
BH-07	7.20	8.70	C		31/10/24										
BH-07	8.70	10.20	C		31/10/24										

0 = test scheduled,

1 = test completed as scheduled,

Project ID	2024MO117	Structural Soils Report number 752151
Project Name	Muingmore WF	Envirolab Reports: 24/12/24, 25/00517
Schedule ID	2024MO117_1	Report Date: 20.02.25

Sample Details							Classification				Rock		Other		Comments
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Size Distribution	Sulphate Total	Rock Uniaxial compression	Point Load	UCS Specimen depth (m)	PL Specimen 1 depth (m)	
BH-07	10.20	11.70	C		31/10/24										
BH-07	11.70	13.20	C		31/10/24										
BH-07	13.20	14.70	C		31/10/24										
BH-07	14.70	16.20	C		31/10/24		Wrapped specimens to StSoils				1	2	14.7-15.0	16.0-16.2	
BH-07	16.20	17.70	C		31/10/24										
BH-07	17.70	19.20	C		31/10/24										
BH-07	19.20	20.30	C		31/10/24										
BH-08	0.00	4.00	C		14/11/24										
BH-08	4.00	5.60	C		14/11/24										
BH-08	5.60	7.10	C		14/11/24										
BH-08	7.10	8.60	C		14/11/24		Wrapped specimens to StSoils				1	2	9.0-9.2	8.3-8.6	
BH-08	8.60	10.10	C		14/11/24										
BH-08	10.10	11.60	C		14/11/24										
BH-08	11.60	13.10	C		14/11/24										
BH-08	13.10	14.60	C		14/11/24										
BH-08	14.60	16.10	C		14/11/24										
BH-08	16.10	17.30	C		14/11/24										
BH-09	0.00	1.50	C		13/11/24										
BH-09	1.50	2.60	C		13/11/24										
BH-09	2.60	4.10	C		13/11/24										
BH-09	4.10	5.60	C		13/11/24										
BH-09	5.60	7.10	C		13/11/24		Wrapped specimens to StSoils				0*	0*	move to next core run		move to next core run
BH-09	7.10	8.60	C		13/11/24										
BH-09	8.60	10.10	C		13/11/24		Wrapped specimens to StSoils				1	2	9.0-9.2	9.3-9.5	
BH-10	0.00	1.50	C		12/11/24										
BH-10	1.50	2.60	C		12/11/24										
BH-10	2.60	4.10	C		12/11/24										
BH-10	4.10	5.60	C		12/11/24		Wrapped specimens to StSoils				1	2	5.0-5.3	5.3-5.5	
BH-10	5.60	7.10	C		13/11/24										
BH-10	7.10	8.60	C		13/11/24										
BH-11	0.00	2.00	C		11/11/24										
BH-11	2.00	2.60	C		11/11/24										
BH-11	2.60	4.10	C		11/11/24										
BH-11	4.10	5.60	C		11/11/24										
BH-11	5.60	7.10	C		11/11/24										
BH-11	7.10	8.60	C		11/11/24										
BH-11	8.60	10.10	C		11/11/24		Wrapped specimens to StSoils				1	2	9.1-9.3	9.3-9.5	
BH-11	10.10	11.60	C		12/11/24										
BH-11	11.60	12.60	C		12/11/24										
BH-11	12.60	14.00	C		12/11/24										
BH-12	0.00	1.50	C		25/10/24										
BH-12	1.50	2.80	C		25/10/24										
BH-12	2.80	4.30	C		25/10/24										
BH-12	4.30	5.60	C		25/10/24										
BH-12	5.60	7.10	C		29/10/24										
BH-12	7.10	8.60	C		29/10/24										
BH-12	8.60	10.10	C		29/10/24										
BH-12	10.10	11.60	C		29/10/24		Wrapped specimens to StSoils				*	*	none possible	10.1-10.3	
BH-12	11.60	12.90	C		29/10/24										
BH-12	12.90	14.20	C		29/10/24										
BH-12	14.20	14.70	C		29/10/24										
BH-13	0.00	1.50	C		30/10/24										
BH-13	1.50	2.60	C		30/10/24										
BH-13	2.60	4.10	C		30/10/24										
BH-13	4.10	5.60	C		30/10/24										
BH-13	5.60	7.10	C		30/10/24										
BH-13	7.10	8.60	C		30/10/24										
BH-13	8.60	10.10	C		30/10/24										
BH-13	10.10	11.60	C		30/10/24										
BH-13	11.60	13.10	C		30/10/24										
BH-13	13.10	14.60	C		30/10/24										
BH-13	14.60	16.10	C		30/10/24		Wrapped specimens to StSoils				1	2	16.8-17.0	17.1-17.3	
BH-13	16.10	17.60	C		30/10/24										
BH-MM1	0.00	1.50	C		07/11/24										

Project ID	2024MO117	Structural Soils Report number 752151
Project Name	Muingmore WF	Envirolab Reports: 24/12124, 25/00517
Schedule ID	2024MO117_1	Report Date: 20.02.25

Sample Details							Classification			Rock		Other			
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Size Distribution	Sulphate Total	Rock Uniaxial compression	Point Load	UCS Specimen depth (m)	PL Specimen 1 depth (m)	Comments
BH-MM1	1.50	2.60	C		07/11/24										
BH-MM1	2.60	4.10	C		07/11/24										
BH-MM1	4.10	5.60	C		07/11/24										
BH-MM1	5.60	7.10	C		07/11/24										
BH-MM1	7.10	8.60	C		07/11/24										
BH-MM1	8.60	10.10	C		07/11/24		Wrapped specimens to StSoils			1	2	8.6-8.8	8.8-9.0		
BH-MM1	10.10	11.60	C		07/11/24										
BH-MM1	11.60	12.80	C		07/11/24										
BH-MM2	0.00	3.00	C		15/11/24										
BH-MM2	3.00	4.10	C		15/11/24										
BH-MM2	4.10	5.60	C		15/11/24										
BH-MM2	5.60	7.10	C		15/11/24										
BH-MM2	7.10	8.60	C		15/11/24		Wrapped specimens to StSoils			1	2	8.3-8.6	8.1-8.3		
BH-MM2	8.60	10.10	C		15/11/24										
BH-MM2	10.10	11.60	C		15/11/24										
BH-MM2	11.60	13.10	C		15/11/24										
BH-MM2	13.10	14.40	C		15/11/24										
BH-SS	0.00	4.00	C		07/11/24										
BH-SS	4.00	5.60	C		07/11/24										
BH-SS	5.60	7.10	C		07/11/24										
BH-SS	7.10	8.60	C		07/11/24										
BH-SS	8.60	10.10	C		07/11/24										
BH-SS	10.10	11.60	C		08/11/24										
BH-SS	11.60	13.10	C		08/11/24										
BH-SS	13.10	14.60	C		08/11/24										
BH-SS	14.60	16.10	C		08/11/24		Wrapped specimens to StSoils			*	2	none possible	14.7-14.9		
BH-SS	16.10	17.60	C		08/11/24										

Project ID	2024MO117	Structural Soils Report number 752151
Project Name	Muingmore WF	Envirolab Reports: 24/12124, 25/00517
Schedule ID	2024MO117_1	Report Date: 20.02.25

Sample Details							Classification			Rock			Other		Comments
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Size Distribution	Sulphate Total	Rock Uniaxial compression	Point Load	UCS Specimen depth (m)	PL Specimen 1 depth (m)	
TP-01	0.60	1.20	B	1	23/09/24	AY90									
TP-01	0.60		D	2	23/09/24	AY90	1			1					env 24/12124
TP-01	2.00	2.50	B	3	23/09/24	AY90	1			1					env 25/00517
TP-01	2.00		D	4	23/09/24	AY90									
TP-02	1.50	2.00	B	1	23/09/24	AY90									
TP-02	1.50		D	2	23/09/24	AY90	1								
TP-02	2.50	3.00	B	3	23/09/24	AY90									
TP-02	2.50		D	4	23/09/24	AY90									
TP-02	4.20	4.50	B	5	23/09/24	AY90	1								
TP-02	4.20		D	6	23/09/24	AY90									
TP-03	1.00	1.50	B	1	23/09/24	AY90									
TP-03	1.00		D	2	23/09/24	AY90	1								
TP-03	3.00	3.50	B	3	23/09/24	AY90	*								use bag if D is too small
TP-03	3.00		D	4	23/09/24	AY90	1	1	1						use bag if D is too small
TP-04	1.00	1.50	B	1	23/09/24	AY90									
TP-04	1.00		D	2	23/09/24	AY90	1								
TP-04	2.50	3.00	B	3	23/09/24	AY90									
TP-04	2.50		D	4	23/09/24	AY90									
TP-05	1.00	1.50	B	1	23/09/24	AY90									
TP-05	1.00		D	2	23/09/24	AY90	1								
TP-05	3.00	3.50	B	3	23/09/24	AY90	1								
TP-05	3.00		D	4	23/09/24	AY90									
TP-06	1.00	1.50	B	1	24/09/24	AY90									
TP-06	1.00		D	2	24/09/24	AY90	1								
TP-06	3.00	3.40	B	3	24/09/24	AY90									
TP-06	3.00		D	4	24/09/24	AY90									
TP-06	4.00	4.50	B	5	24/09/24	AY90	1								use bag if D is too small
TP-06	4.00		D	6	24/09/24	AY90									use bag if D is too small
TP-07	1.50	2.00	B	1	24/09/24	AY89									
TP-07	1.50		D	2	24/09/24	AY89	1								
TP-07	4.00	4.50	B	3	24/09/24	AY89	*								use bag if D is too small
TP-07	4.00		D	4	24/09/24	AY89			1						use bag if D is too small
TP-08	1.00	1.50	B	1	25/09/24	AY89									
TP-08	1.00		D	2	25/09/24	AY89	1								
TP-08	3.00	3.50	B	3	25/09/24	AY89	*								
TP-08	3.00		D	4	25/09/24	AY89									
TP-09	1.50	2.00	B	1	24/09/24	AY89									
TP-09	1.50		D	2	24/09/24	AY89	1								
TP-09	3.60	4.00	B	3	24/09/24	AY89	*								use bag if D is too small
TP-09	3.60		D	4	24/09/24	AY89			1						use bag if D is too small
TP-10	1.00	1.50	B	1	24/09/24	AY89									
TP-10	1.00		D	2	24/09/24	AY89	1			*					
TP-10	3.00	3.50	B	3	24/09/24	AY89				*					use bag if D is too small
TP-10	3.00		D	4	24/09/24	AY89	1	1							
TP-10	1.50	2.00	b							1					env 24/12124
TP-11	1.00	1.50	B	1	24/09/24	AY89									
TP-11	1.50		D	2	24/09/24	AY89	1								
TP-11	3.30	3.70	B	3	24/09/24	AY89	*								use bag if D is too small
TP-11	3.30		D	4	24/09/24	AY89			1						
TP-12	1.00	1.50	B	1	25/09/24	AY89									
TP-12	1.00		D	2	25/09/24	AY89				1					env 24/12124
TP-12	4.10	4.50	B	3	25/09/24	AY89				*					use bag if D is too small
TP-12	4.10		D	4	25/09/24	AY89			1						use bag if D is too small
TP-13	1.00	1.50	B	1	25/09/24	AY89									

Project ID	2024MO117	Structural Soils Report number 752151
Project Name	Muingmore WF	Envirolab Reports: 24/12124, 25/00517
Schedule ID	2024MO117_1	Report Date: 20.02.25

Sample Details							Classification			Rock			Other		Comments
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Size Distribution	Sulphate Total	Rock Uniaxial compression	Point Load	UCS Specimen depth (m)	PL Specimen 1 depth (m)	
TP-13	1.00		D	2	25/09/24	AY89	1								
TP-13	3.00		D	4	25/09/24	AY89	1	1							
TP-14	1.00	1.50	B	1	24/09/24	AY89			*		1				use bag if D is too small
TP-14	1.00		D	2	24/09/24	AY89	1								env 24/12124
TP-15	1.00	1.50	B	1	26/09/24	AY90									
TP-15	1.00		D	2	26/09/24		1								
TP-15	3.50	4.00	B	3	26/09/24	AY90	1		1						use bag if D is too small
TP-15	3.50		D	4	26/09/24		1	1	1						
TP-16	1.00	1.50	B	1	26/09/24	AY90									
TP-16	1.00		D	2	26/09/24		1								
TP-16	3.50	4.00	B	3	26/09/24	AY90	1								
TP-16	3.50		D	4	26/09/24	AY90									
TP-16	4.00	4.50	B	5	26/09/24	AY90									
TP-16	4.00		D	6	26/09/24	AY90									
TP-17	1.50	2.00	B	1	26/09/24	AY90									
TP-17	1.50		D	2	26/09/24		1								
TP-17	3.00	3.50	B	3	26/09/24	AY90	1								
TP-17	3.00		D	4	26/09/24	AY90									
TP-18	1.00	1.50	B	1	25/09/24	AY90									
TP-18	1.00		D	2	25/09/24		1								
TP-18	3.00	3.50	B	3	25/09/24	AY90	*								
TP-18	3.00		D	4	25/09/24	AY90									
TP-19	1.00	1.50	B	1	25/09/24	AY90									
TP-19	1.00		D	2	25/09/24		1								
TP-19	3.00	3.50	B	3	25/09/24	AY90	1								
TP-19	3.00		D	4	25/09/24	AY90									
TP-19	4.00	4.50	B	5	25/09/24	AY90									
TP-19	4.00		D	6	25/09/24	AY90									
TP-20	1.00	1.50	B	1	26/09/24	AY90									
TP-20	1.00		D	2	26/09/24		1								
TP-20	2.50	3.00	B	3	26/09/24	AY90	1								
TP-20	2.50		D	4	26/09/24	AY90									
TP-21	1.00	1.50	B	1	26/09/24	AY90									
TP-21	1.00		D	2	26/09/24		1								
TP-21	3.60	4.00	B	3	26/09/24	AY90	1								use bag if D is too small
TP-21	3.60		D	4	26/09/24		1	1							use bag if D is too small
TP-22	1.00	1.50	B	1	27/09/24	AY90									
TP-22	1.00		D	2	27/09/24		1								
TP-22	2.50	3.00	B	3	27/09/24	AY90	1								
TP-22	2.50		D	4	27/09/24	AY90									
TP-23	1.00	1.50	B	1	27/09/24	AY90									
TP-23	1.00		D	2	27/09/24		1								
TP-23	3.00	3.50	B	3	27/09/24	AY90	1								
TP-23	3.00		D	4	27/09/24	AY90									
TP-24	1.00	1.40	B	1	25/09/24	AY90									
TP-24	1.00		D	2	25/09/24		1				1				env 24/12124
TP-24	2.50	3.00	B	3	25/09/24	AY90	1				1				env 25/00517
TP-24	2.50		D	4	25/09/24				1						use bag if D is too small
TP-25	2.50	3.00	B	1	05/10/24	AZ16									
TP-25	2.50		D	2	05/10/24		on sch1								cancel - no longer needed
TP-26	2.50	3.00	B	1	05/10/24	AZ16									
TP-26	2.50		D	2	05/10/24	AZ16									
TP-28	1.50	2.00	B	1	15/11/24	AZ16									use bag if D is too small
TP-28	1.50		D	2	15/11/24	AZ16	1	1							use bag if D is too small
TP-29	1.00	1.50	B	1	07/11/24	AZ16									
TP-29	1.00		D	2	07/11/24		on sch1								cancel - no longer needed
TP-29	3.00	3.50	B	3	07/11/24	AZ16	1								
TP-29	3.00		D	4	07/11/24	AZ16									

0 = test scheduled,

1 = test completed as scheduled,

0\* = sample not suitable for scheduled test

Project ID	2024MO117	Structural Soils Report number 752151
Project Name	Muingmore WF	Envirolab Reports: 24/12124, 25/00517
Schedule ID	2024MO117_1	Report Date: 20.02.25



Sample Details							Classification			Rock			Other		Comments
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Size Distribution	Sulphate Total	Rock Uniaxial compression	Point Load	UCS Specimen depth (m)	PL Specimen 1 depth (m)	
TP-30	1.00	1.50	B	1	07/11/24	AZ16									
TP-30	1.00		D	2	07/11/24	AZ16									
TP-30	3.00	3.50	B	3	07/11/24	AZ16									use bag if D is too small
TP-30	3.00		D	4	07/11/24	AZ16	1	1	1						use bag if D is too small
TP-31	1.00	1.50	B	1	15/11/24	AZ16									
TP-31	1.00		D	2	15/11/24	AZ16									
TP-32	2.50	3.00	B	1	31/10/24		on sch1								cancel - no longer needed
TP-32	2.50		D	2	31/10/24	AZ16									
TP-CC	1.00	1.50	B	1	15/11/24	AZ16									
TP-CC	1.00		D	2	15/11/24	AZ16									
TP-CC	2.50	3.00	B	3	15/11/24	AZ16	1	1							
TP-CC	2.50		D	4	15/11/24	AZ16									

# SUMMARY OF WATER CONTENT TESTS

In accordance with BS EN ISO 17892-1:2014+A1:2022

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content (%)	Drying Temperature (degC)	Description	Lab location
TP-01	2	D	0.60	448	80	Dark brown PEAT	T
TP-01	3	B	2.00	9.5	105	Brown gravelly slightly silty SAND	B
TP-02	2	D	1.50	649	80	Dark brown PEAT	T
TP-02	5	B	4.20	20.5	105	Greyish brown slightly gravelly silty SAND	B
TP-03	2	D	1.00	855	80	Dark brown PEAT	T
TP-04	2	D	1.00	860	80	Dark brown PEAT	T
TP-05	2	D	1.00	882	80	Dark brown PEAT	T
TP-05	3	B	3.00	12.2	105	Brown gravelly silty SAND	B
TP-06	2	D	1.00	1098	80	Dark brown PEAT	T
TP-06	5	B	4.00	21.5	105	Grey slightly gravelly silty SAND	B
TP-07	2	D	1.50	389	80	Dark grey mottled brown sandy PEAT	T
TP-08	2	D	1.00	393	80	Dark grey mottled brown silty PEAT	T
TP-09	2	D	1.50	729	80	Dark grey mottled brown PEAT	T
TP-10	2	D	1.00	798	80	Dark brown PEAT	T
TP-11	2	D	1.50	1021	80	Dark brown PEAT	T
TP-13	2	D	1.00	810	80	Dark brown PEAT	T
TP-14	2	D	1.00	778	80	Dark brown PEAT	T
TP-15	2	D	1.00	989	80	Dark grey mottled brown PEAT	T

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)



 <b>STRUCTURAL SOILS LTD</b>	Compiled By		Date	Contract Ref:
	<i>Francesca Bennett</i>	<b>FRANCESCA BENNETT</b>	<b>19.02.25</b>	
Contract:			<b>752151</b>	
<b>Muingmore WF</b>				

# SUMMARY OF WATER CONTENT TESTS

In accordance with BS EN ISO 17892-1:2014+A1:2022

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content (%)	Drying Temperature (degC)	Description	Lab location
TP-15	3	B	3.50	15.3	105	Brown very gravelly silty SAND	B
TP-15	4	D	3.50	13.1	80	Brown very gravelly silty SAND	T
TP-16	2	D	1.00	801	80	Dark grey mottled brown PEAT	T
TP-16	3	B	3.50	12.8	105	Brown very gravelly silty SAND	B
TP-17	2	D	1.50	5.6	80	Light greyish brown very gravelly slightly silty SAND	T
TP-17	3	B	3.00	5.5	105	Light brown gravelly slightly silty SAND	B
TP-18	2	D	1.00	987	80	Dark brown PEAT	T
TP-19	2	D	1.00	771	80	Dark grey mottled brown PEAT	T
TP-19	3	B	3.00	8.7	105	Greenish grey gravelly slightly silty SAND	B
TP-20	2	D	1.00	772	80	Dark brown PEAT	T
TP-20	3	B	2.50	17.2	105	Brown slightly gravelly slightly clayey SAND	B
TP-21	2	D	1.00	610	80	Dark grey mottled brown PEAT	T
TP-21	3	B	3.60	11.7	105	Brown very gravelly slightly silty SAND	B
TP-22	2	D	1.00	1052	80	Dark brown PEAT	T
TP-22	3	B	2.50	10.6	105	Brown gravelly slightly silty SAND	B
TP-23	2	D	1.00	711	80	Dark brown slightly gravelly PEAT	T
TP-23	3	B	3.00	10.9	105	Greyish brown gravelly slightly silty SAND	B
TP-24	2	D	1.00	413	80	Dark brown sandy PEAT	T

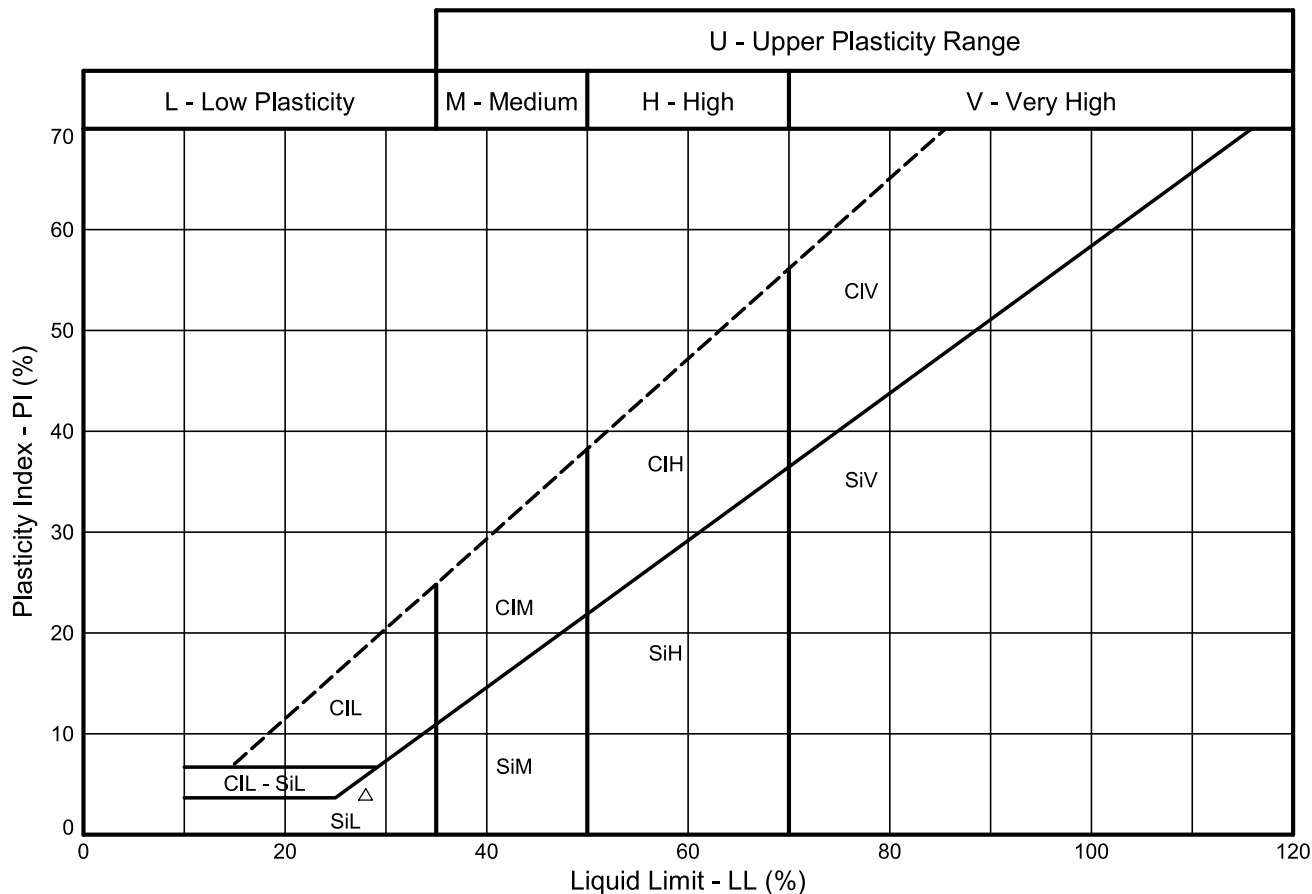
Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)

 <b>STRUCTURAL SOILS LTD</b>	Compiled By		Date	Contract Ref:
	<i>Francesca Bennett</i> Contract:		19.02.25	
Muingmore WF			752151	
				



# PI vs LL CHART

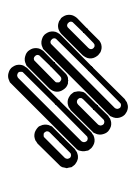
According to BS EN 14688-2:2018  
Testing in accordance with BS EN ISO 17892-12:2018+A2:2022



Sample Identification			Test Method #	Preparation Method +	WC %	LL %	PL %	PI %	<425µm %	Lab location	Notes
Exploratory Position ID	Sample	Depth (m)									
TP-03	4D	3.00	5.3/5.5/6.5	5.2.7	15.8	NP	NP	NP	65	T	
TP-10	4D	3.00	5.3/5.5/6.5	5.2.7	10.3	NP	NP	NP	64	T	
TP-13	4D	3.00	5.3/5.5/6.5	5.2.7	15.2	NP	NP	NP	62	T	
TP-15	AMAL	3.50	5.3/5.5/6.5	5.2.7	16.3	NP	NP	NP	62	B	
TP-21	4D	3.60	5.3/5.5/6.5	5.2.7	11.9	NP	NP	NP	42	T	
TP-28	1B	1.50	5.3/5.5/6.5	5.2.7	11.1	NP	NP	NP	62	B	
TP-30	AMAL	3.00	5.3/5.5/6.5	5.2.7	12.3	NP	NP	NP	38	B	
Δ TP-CC	3B	2.50	5.3/5.5/6.5	5.2.7	11.2	28	24	4	55	B I	

# Tested in accordance with the following clauses of BS EN ISO 17892-12:2018+A2:2022  
 5.3 - Cone Penetrometer Method; 5.3.14 - One-Point Cone Penetrometer Method (factors are from Table 1, BS 1377-2:2022);  
 5.4 - Casagrande Method; 5.5 - Plastic Limit Method; 6.5 - Plasticity Index  
 Water Content (WC) tested in accordance with BS EN ISO 17892-1:2014+A1:2022  
 + Tested in accordance with the following clauses of BS EN ISO 17892-12:2018+A2:2022  
 5.2.1 - Natural State and 5.2.7 - Wet Sieved  
 Key: \* = Non-standard test, NP = Non plastic, I = Increasing WC, D = Decreasing WC.

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)



**STRUCTURAL SOILS LTD**

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Muingmore WF</b>		<b>752151</b>



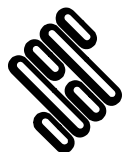
GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8\_07\_001.PrvVersion: v8\_07 | Graph L - ALINE STANDARD - 17892 - A4P | 752151.GPJ - V10\_01 | Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:05 | AF3 |

# SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with Part 1, Part 12 of BS EN ISO 17892

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
TP-01	2	D	0.60	448					Dark brown PEAT
TP-01	3	B	2.00	9.5					Brown gravelly slightly silty SAND
TP-02	2	D	1.50	649					Dark brown PEAT
TP-02	5	B	4.20	20.5					Greyish brown slightly gravelly silty SAND
TP-03	2	D	1.00	855					Dark brown PEAT
TP-03	4	D	3.00	15.8	NP	NP	NP	65	Greyish brown gravelly silty SAND
TP-04	2	D	1.00	860					Dark brown PEAT
TP-05	2	D	1.00	882					Dark brown PEAT

SYMBOLS: \* denotes BS 1377



**STRUCTURAL  
SOILS LTD**

Contract:

**Muingmore WF**

Contract Ref:

**752151**

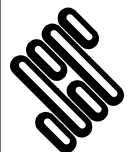


# SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with Part 1, Part 12 of BS EN ISO 17892

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
TP-05	3	B	3.00	12.2					Brown gravelly silty SAND
TP-06	2	D	1.00	1098					Dark brown PEAT
TP-06	5	B	4.00	21.5					Grey slightly gravelly silty SAND
TP-07	2	D	1.50	389					Dark grey mottled brown sandy PEAT
TP-08	2	D	1.00	393					Dark grey mottled brown silty PEAT
TP-09	2	D	1.50	729					Dark grey mottled brown PEAT
TP-10	2	D	1.00	798					Dark brown PEAT
TP-10	4	D	3.00	10.3	NP	NP	NP	64	Greyish brown very gravelly silty SAND

SYMBOLS: \* denotes BS 1377



**STRUCTURAL  
SOILS LTD**

Contract:

**Muingmore WF**

Contract Ref:

**752151**

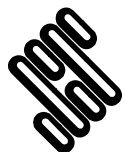


# SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with Part 1, Part 12 of BS EN ISO 17892

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
TP-11	2	D	1.50	1021					Dark brown PEAT
TP-13	2	D	1.00	810					Dark brown PEAT
TP-13	4	D	3.00	15.2	NP	NP	NP	62	Brown mottled grey very gravelly silty SAND
TP-14	2	D	1.00	778					Dark brown PEAT
TP-15	2	D	1.00	989					Dark grey mottled brown PEAT
TP-15		AMAL	3.50	16.3	NP	NP	NP	62	Brown very gravelly silty SAND
									Amalgamation comprises: TP-15, Depth:3.50, Ref:4, Type:D + TP-15, Depth:3.50, Ref:3, Type:B
TP-15	3	B	3.50	15.3					Brown very gravelly silty SAND

SYMBOLS: \* denotes BS 1377



**STRUCTURAL  
SOILS LTD**

Contract:

**Muingmore WF**

Contract Ref:

**752151**

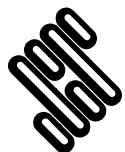


# SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with Part 1, Part 12 of BS EN ISO 17892

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
TP-15	4	D	3.50	13.1					Brown very gravelly silty SAND
TP-16	2	D	1.00	801					Dark grey mottled brown PEAT
TP-16	3	B	3.50	12.8					Brown very gravelly silty SAND
TP-17	2	D	1.50	5.6					Light greyish brown very gravelly slightly silty SAND
TP-17	3	B	3.00	5.5					Light brown gravelly slightly silty SAND
TP-18	2	D	1.00	987					Dark brown PEAT
TP-19	2	D	1.00	771					Dark grey mottled brown PEAT
TP-19	3	B	3.00	8.7					Greenish grey gravelly slightly silty SAND

SYMBOLS: \* denotes BS 1377



**STRUCTURAL  
SOILS LTD**

Contract:

**Muingmore WF**

Contract Ref:

**752151**

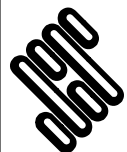


# SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with Part 1, Part 12 of BS EN ISO 17892

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
TP-20	2	D	1.00	772					Dark brown PEAT
TP-20	3	B	2.50	17.2					Brown slightly gravelly slightly clayey SAND
TP-21	2	D	1.00	610					Dark grey mottled brown PEAT
TP-21	3	B	3.60	11.7					Brown very gravelly slightly silty SAND
TP-21	4	D	3.60	11.9	NP	NP	NP	42	Brown very gravelly slightly silty SAND
TP-22	2	D	1.00	1052					Dark brown PEAT
TP-22	3	B	2.50	10.6					Brown gravelly slightly silty SAND
TP-23	2	D	1.00	711					Dark brown slightly gravelly PEAT

SYMBOLS: \* denotes BS 1377



**STRUCTURAL  
SOILS LTD**

Contract:

**Muingmore WF**

Contract Ref:

**752151**

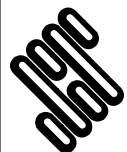


# SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with Part 1, Part 12 of BS EN ISO 17892

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Water Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
TP-23	3	B	3.00	10.9					Greyish brown gravelly slightly silty SAND
TP-24	2	D	1.00	413					Dark brown sandy PEAT
TP-24	3	B	2.50	9.1					Brown very gravelly silty SAND
TP-28	1	B	1.50	11.1	NP	NP	NP	62	Brown very gravelly silty SAND
TP-29	3	B	3.00	13.2					Brownish grey gravelly silty SAND
TP-30		AMAL	3.00	12.3	NP	NP	NP	38	Grey very gravelly very silty SAND
									Amalgamation comprises: TP-30, Depth:3.00, Ref:4, Type:D + TP-30, Depth:3.00, Ref:3, Type:B
TP-CC	3	B	2.50	11.2	28	24	4	55	Grey slightly gravelly sandy SILT

SYMBOLS: \* denotes BS 1377



**STRUCTURAL  
SOILS LTD**

Contract:

**Muingmore WF**

Contract Ref:

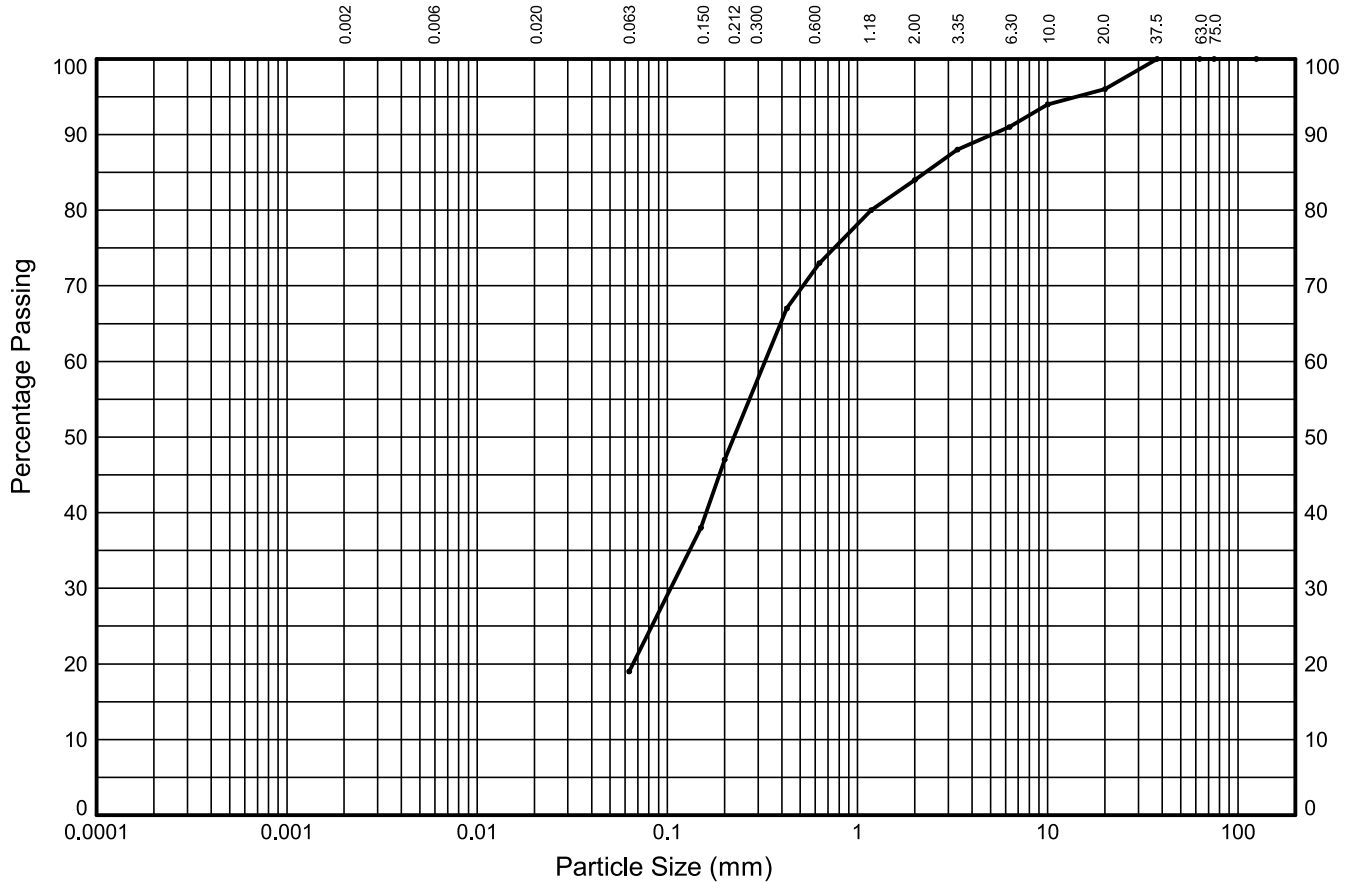
**752151**



# PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016

Trial Pit: **TP-03**    Sample Ref: **4**    Sample Type: **D**    Depth (m): **3.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	-	-	-	28%	26%	11%	7%	5%	4%	
SILT			SAND			GRAVEL				
19%			65%			16%			0%	

Test Sieve (mm)	Percent Passing (%)	Particle Diameter (mm)	Percent Passing (%)	Coefficients	
125.0	100			D <sub>10</sub> (mm)	NA
75.0	100			D <sub>15</sub> (mm)	NA
63.0	100			D <sub>30</sub> (mm)	0.104
37.5	100			D <sub>50</sub> (mm)	0.224
20.0	96			D <sub>60</sub> (mm)	0.326
10.0	94			D <sub>85</sub> (mm)	2.275
6.30	91			D <sub>90</sub> (mm)	5.104
3.35	88			C <sub>u</sub>	NA
2.00	84			C <sub>c</sub>	NA
1.18	80			Sedimentation sample was not pre-treated	
0.630	73				
0.425	67				
0.200	47				
0.150	38				
0.063	19				
Soil Description: <b>Greyish brown gravelly silty SAND</b>					

Key: C<sub>u</sub> = Uniformity coefficient. C<sub>c</sub> = Coefficient of curvature as defined in BS EN ISO 14688-2:2018

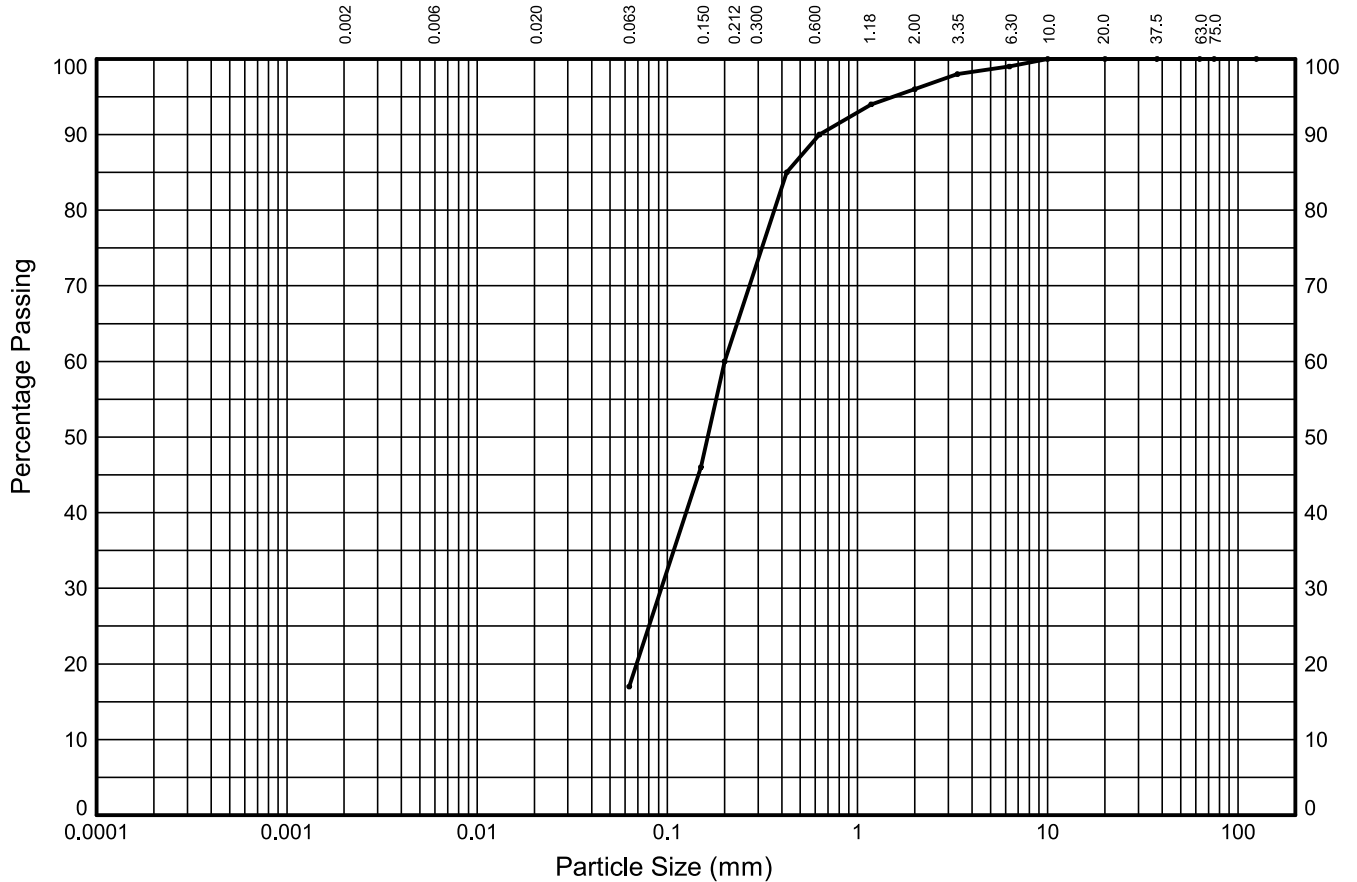
GINT\_LIBRARY\_V10\_01\_GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - PSD - A4P | 752151.GPJ - v10\_01. Structural Soils Ltd. Branch Office - Tonbridge Lab: Anerley Court, Half Moon Lane, Hildenborough, Tonbridge, TN11 9HU. Tel: 01732 833111, Fax: 01732 838549, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 19/02/25 - 09:12 | AF3 |

 <b>STRUCTURAL SOILS</b> Bridge House North Farm Road Tunbridge Wells Kent TN2 3DR	Compiled By		Date
	<i>Francesca Bennett</i>		19/02/25
	<b>FRANCESCA BENNETT</b>		
Contract		Contract Ref:	
<b>Muingmore WF</b>		<b>752151</b>	

# PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016

Trial Pit: **TP-07**    Sample Ref: **4**    Sample Type: **D**    Depth (m): **4.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	-	-	-	43%	30%	6%	3%	1%	0%	
SILT			SAND			GRAVEL				
17%			79%			4%			0%	

Test Sieve (mm)	Percent Passing (%)	Particle Diameter (mm)	Percent Passing (%)	Coefficients	
125.0	100			D <sub>10</sub> (mm)	NA
75.0	100			D <sub>15</sub> (mm)	NA
63.0	100			D <sub>30</sub> (mm)	0.093
37.5	100			D <sub>50</sub> (mm)	0.163
20.0	100			D <sub>60</sub> (mm)	0.200
10.0	100			D <sub>85</sub> (mm)	0.425
6.30	99			D <sub>90</sub> (mm)	0.630
3.35	98			C <sub>u</sub>	NA
2.00	96			C <sub>c</sub>	NA
1.18	94			Sedimentation sample was not pre-treated	
0.630	90				
0.425	85				
0.200	60				
0.150	46				
0.063	17				
Soil Description: <b>Light greyish brown slightly gravelly silty SAND</b>					

Key: C<sub>u</sub> = Uniformity coefficient. C<sub>c</sub> = Coefficient of curvature as defined in BS EN ISO 14688-2:2018

GINT\_LIBRARY\_V10\_01\_GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - PSD - A4P | 752151.GPJ - v10\_01. Structural Soils Ltd. Branch Office - Tonbridge Lab: Anerley Court, Half Moon Lane, Hildenborough, Tonbridge, TN11 9HU. Tel: 01732 833111, Fax: 01732 838549, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 19/02/25 - 09:12 | AF3 |

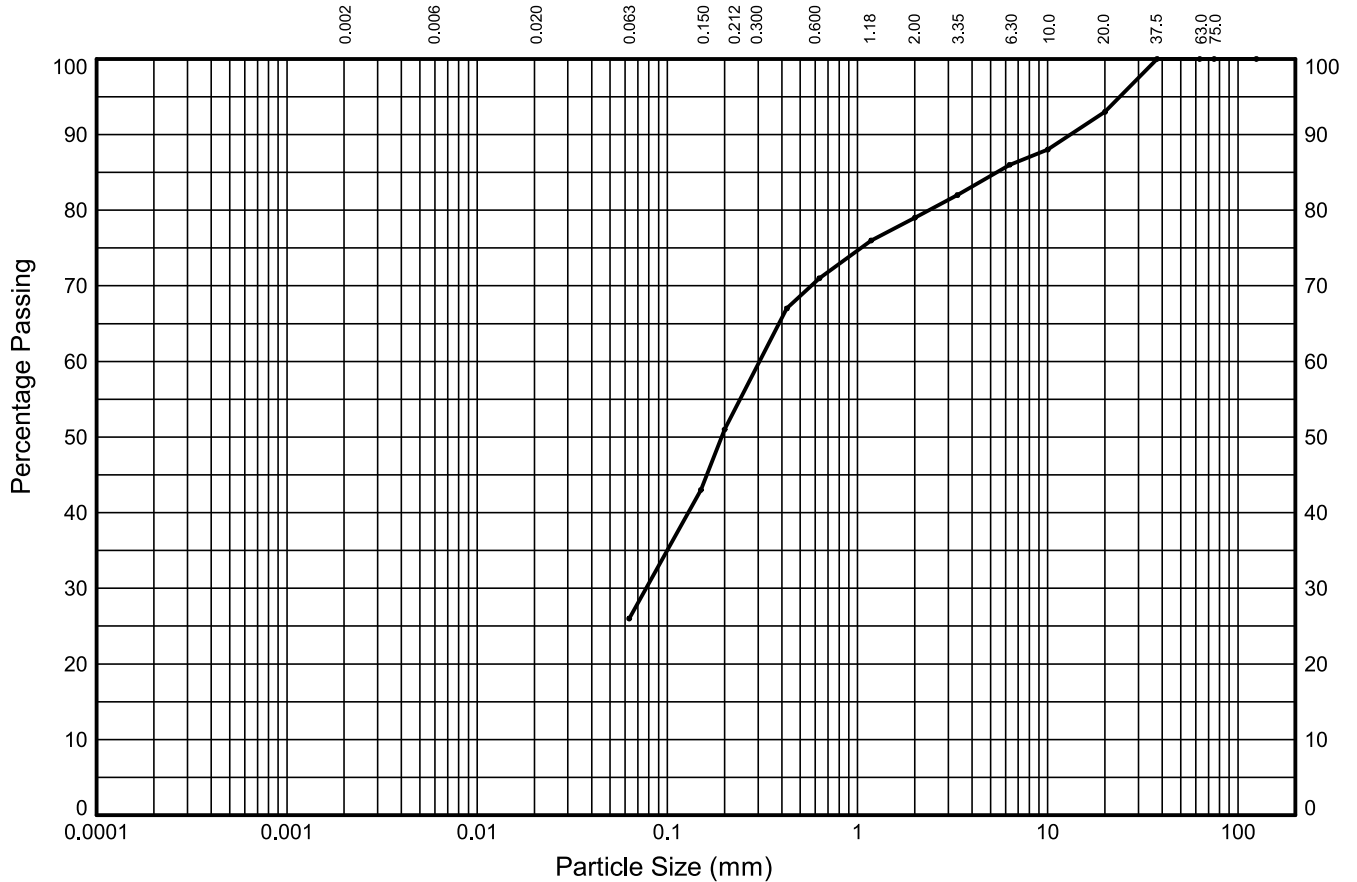
<p><b>STRUCTURAL SOILS</b> Bridge House North Farm Road Tunbridge Wells Kent TN2 3DR</p>	Compiled By		Date
	<i>Francesca Bennett</i>		19/02/25
	<b>FRANCESCA BENNETT</b>		
Contract		Contract Ref:	
<b>Muingmore WF</b>		<b>752151</b>	

# PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016

NON-STANDARD TEST

Trial Pit: **TP-09**    Sample Ref: **4**    Sample Type: **D**    Depth (m): **3.60**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	-	-	-	25%	20%	8%	7%	7%	7%	
SILT			SAND			GRAVEL				
26%			53%			21%			0%	

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	93
10.0	88
6.30	86
3.35	82
2.00	79
1.18	76
0.630	71
0.425	67
0.200	51
0.150	43
0.063	26

Particle Diameter (mm)	Percent Passing (%)
Sedimentation sample was not pre-treated	

Coefficients	
D <sub>10</sub> (mm)	NA
D <sub>15</sub> (mm)	NA
D <sub>30</sub> (mm)	0.077
D <sub>50</sub> (mm)	0.193
D <sub>60</sub> (mm)	0.306
D <sub>85</sub> (mm)	5.380
D <sub>90</sub> (mm)	13.195
C <sub>u</sub>	NA
C <sub>c</sub>	NA

Soil Description:  
**Light greenish grey very gravelly very clayey SAND**

Key: C<sub>u</sub> = Uniformity coefficient. C<sub>c</sub> = Coefficient of curvature as defined in BS EN ISO 14688-2:2018

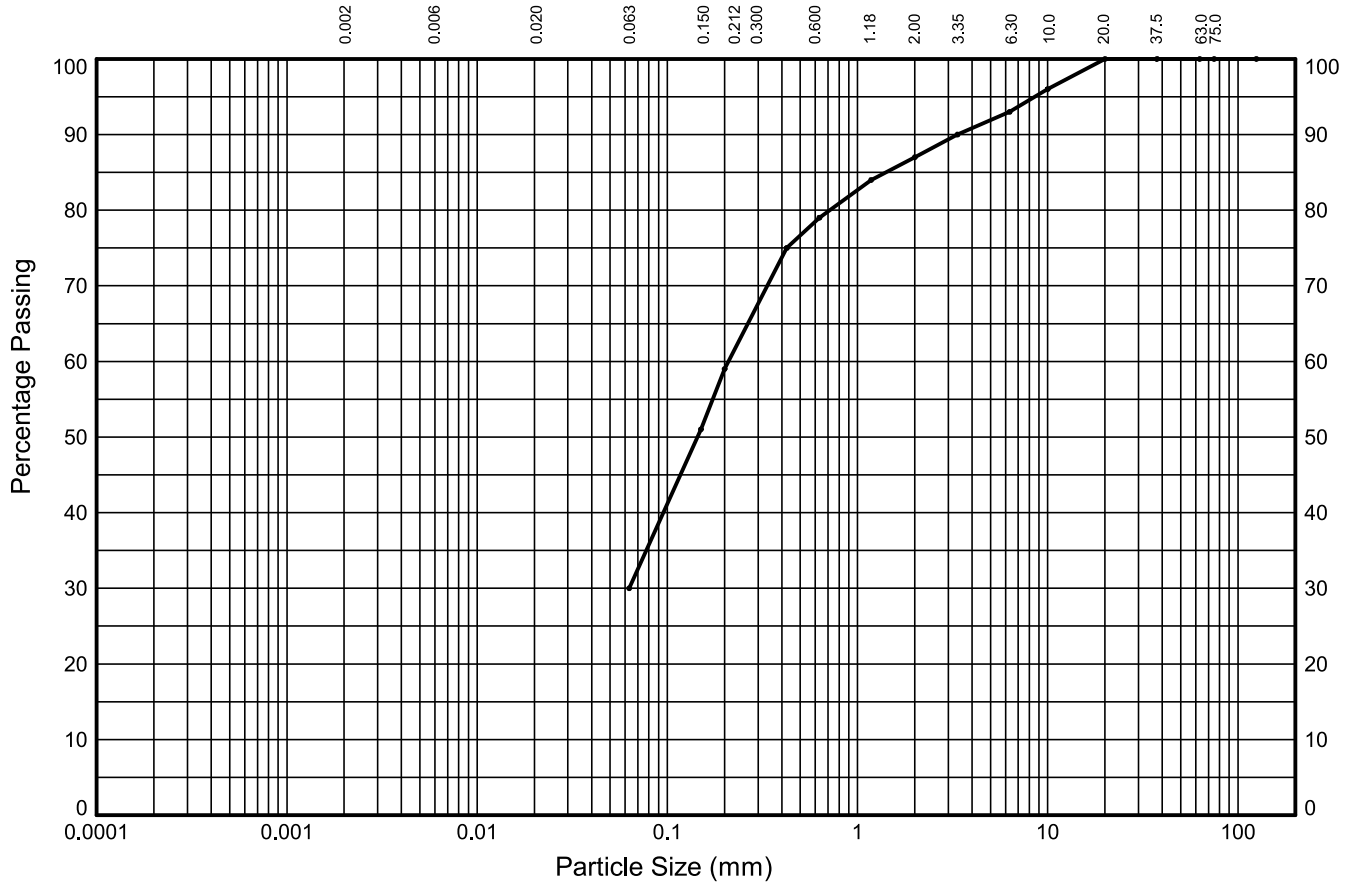
GINT\_LIBRARY\_V10\_01\_GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - PSD - A4P | 752151.GPJ - v10\_01. Structural Soils Ltd. Branch Office - Tonbridge Lab: Anerley Court, Half Moon Lane, Hildenborough, Tonbridge, TN11 9HU. Tel: 01732 833111, Fax: 01732 838549, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 19/02/25 - 09:12 | AF3 |

<p><b>STRUCTURAL SOILS</b> Bridge House North Farm Road Tunbridge Wells Kent TN2 3DR</p>	Compiled By		Date
	<i>Francesca Bennett</i>		19/02/25
	<b>FRANCESCA BENNETT</b>		
Contract		Contract Ref:	
<b>Muingmore WF</b>		<b>752151</b>	

# PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016

Trial Pit: **TP-11**    Sample Ref: **4**    Sample Type: **D**    Depth (m): **3.30**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	-	-	-	29%	20%	8%	6%	7%	0%	
SILT			SAND			GRAVEL				
30%			57%			13%			0%	

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	96
6.30	93
3.35	90
2.00	87
1.18	84
0.630	79
0.425	75
0.200	59
0.150	51
0.063	30

Particle Diameter (mm)	Percent Passing (%)
Sedimentation sample was not pre-treated	

Coefficients	
D <sub>10</sub> (mm)	NA
D <sub>15</sub> (mm)	NA
D <sub>30</sub> (mm)	0.063
D <sub>50</sub> (mm)	0.144
D <sub>60</sub> (mm)	0.210
D <sub>85</sub> (mm)	1.407
D <sub>90</sub> (mm)	3.350
C <sub>u</sub>	NA
C <sub>c</sub>	NA

Soil Description:

**Brown mottled grey gravelly very clayey SAND**

Key: C<sub>u</sub> = Uniformity coefficient. C<sub>c</sub> = Coefficient of curvature as defined in BS EN ISO 14688-2:2018

GINT\_LIBRARY\_V10\_01\_GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - PSD - A4P | 752151.GPJ - v10\_01. Structural Soils Ltd. Branch Office - Tonbridge Lab: Anerley Court, Half Moon Lane, Hildenborough, Tonbridge, TN11 9HU. Tel: 01732 833111, Fax: 01732 838549, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 19/02/25 - 09:12 | AF3 |

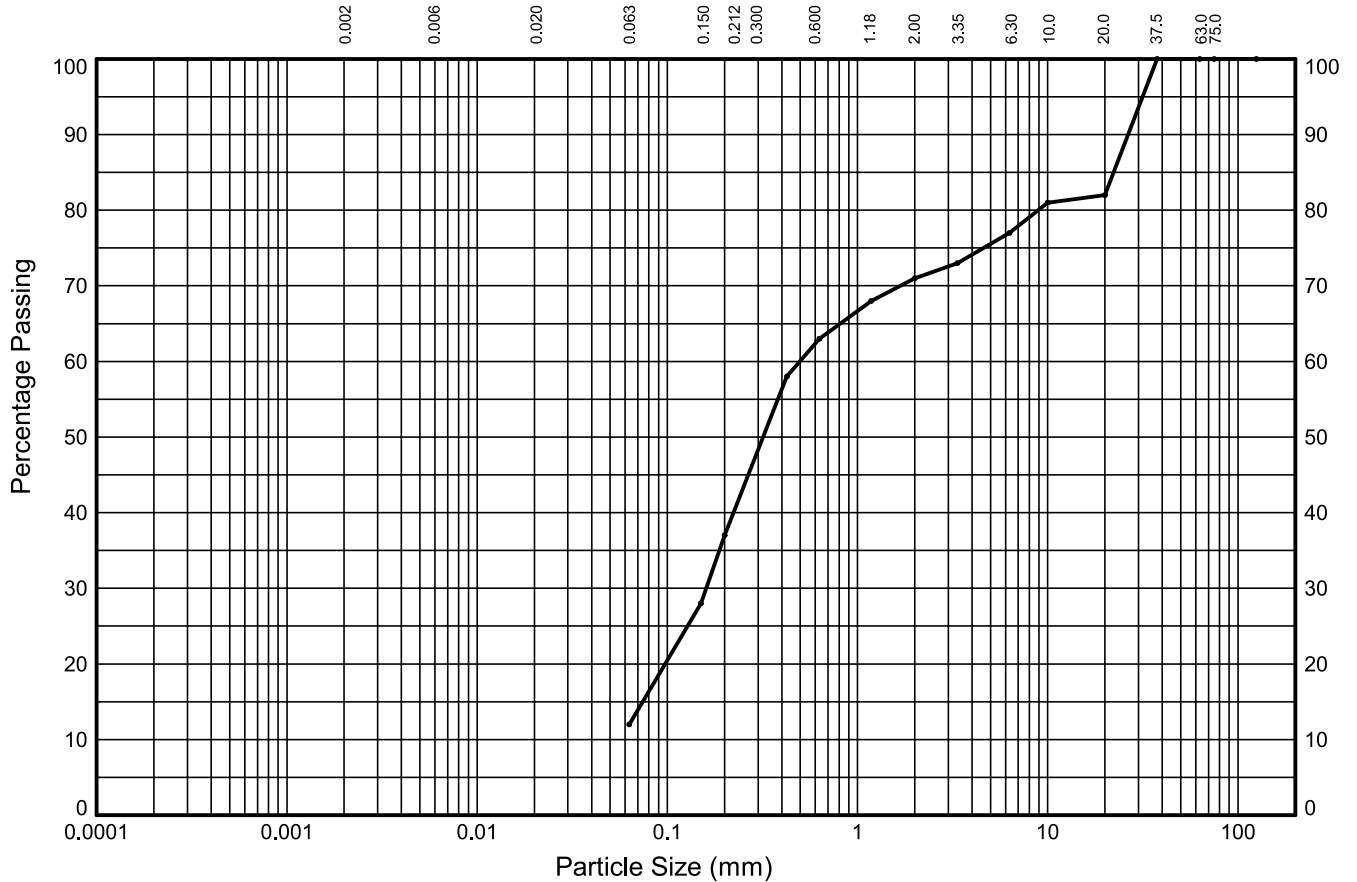
<p><b>STRUCTURAL SOILS</b> Bridge House North Farm Road Tunbridge Wells Kent TN2 3DR</p>	Compiled By		Date
	<i>Francesca Bennett</i>		19/02/25
	<b>FRANCESCA BENNETT</b>		
Contract		Contract Ref:	
<b>Muingmore WF</b>		<b>752151</b>	

# PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016

NON-STANDARD TEST

Trial Pit: **TP-12**    Sample Ref: **4**    Sample Type: **D**    Depth (m): **4.10**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	-	-	-	25%	26%	8%	6%	5%	18%	
SILT			SAND			GRAVEL				
12%			59%			29%			0%	

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	82
10.0	81
6.30	77
3.35	73
2.00	71
1.18	68
0.630	63
0.425	58
0.200	37
0.150	28
0.063	12

Particle Diameter (mm)	Percent Passing (%)
Sedimentation sample was not pre-treated	

Coefficients	
D <sub>10</sub> (mm)	NA
D <sub>15</sub> (mm)	0.074
D <sub>30</sub> (mm)	0.160
D <sub>50</sub> (mm)	0.319
D <sub>60</sub> (mm)	0.497
D <sub>85</sub> (mm)	22.209
D <sub>90</sub> (mm)	26.446
C <sub>u</sub>	NA
C <sub>c</sub>	NA

Soil Description:  
**Brown very gravelly silty SAND**

Key: C<sub>u</sub> = Uniformity coefficient. C<sub>c</sub> = Coefficient of curvature as defined in BS EN ISO 14688-2:2018

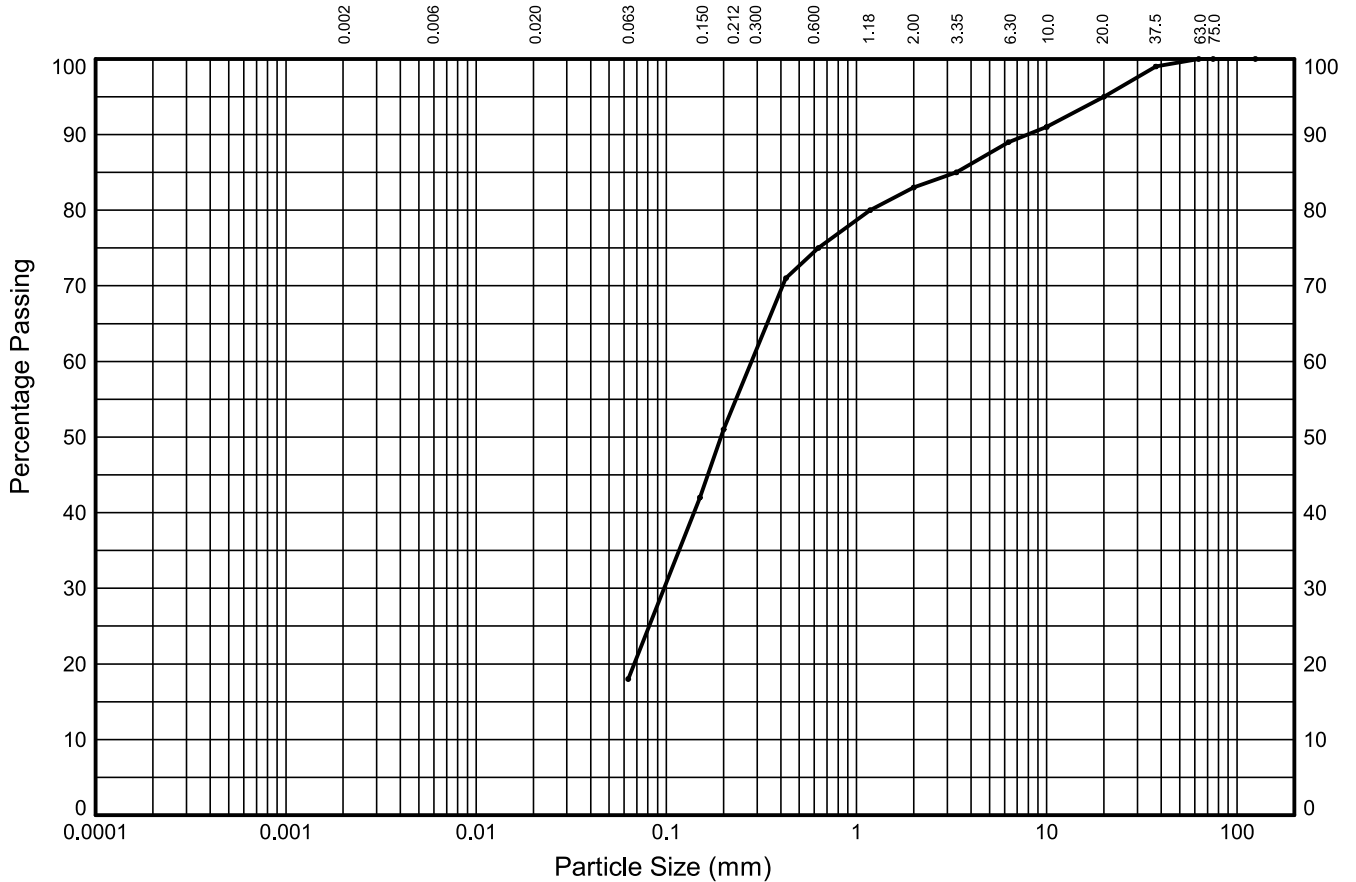
GINT\_LIBRARY\_V10\_01\_GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - PSD - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd. Branch Office - Tonbridge Lab: Anerley Court, Half Moon Lane, Hildenborough, Tonbridge, TN11 9HU. Tel: 01732 833111, Fax: 01732 838549, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 19/02/25 - 09:12 | AF3 |

 <b>STRUCTURAL SOILS</b> Bridge House North Farm Road Tunbridge Wells Kent TN2 3DR	Compiled By		Date
	<i>Francesca Bennett</i>		19/02/25
	<b>FRANCESCA BENNETT</b>		
Contract		Contract Ref:	
<b>Muingmore WF</b>		<b>752151</b>	

# PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016

Trial Pit: **TP-15**    Sample Ref:    Sample Type: **AMAL**    Depth (m): **3.50**  
 Amalgamation comprises: TP-15, Depth:3.50, Ref:4, Type:D + TP-15, Depth:3.50, Ref:3, Type:B



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	-	-	-	33%	24%	8%	6%	6%	5%	
SILT			SAND			GRAVEL				
18%			65%			17%			0%	

Test Sieve (mm)	Percent Passing (%)	Particle Diameter (mm)	Percent Passing (%)	Coefficients	
125.0	100			D <sub>10</sub> (mm)	NA
75.0	100			D <sub>15</sub> (mm)	NA
63.0	100			D <sub>30</sub> (mm)	0.097
37.5	99			D <sub>50</sub> (mm)	0.194
20.0	95			D <sub>60</sub> (mm)	0.281
10.0	91			D <sub>85</sub> (mm)	3.350
6.30	89			D <sub>90</sub> (mm)	7.937
3.35	85			C <sub>u</sub>	NA
2.00	83			C <sub>c</sub>	NA
1.18	80			Sedimentation sample was not pre-treated	
0.630	75				
0.425	71				
0.200	51				
0.150	42				
0.063	18				
Soil Description: <b>Brown very gravelly silty SAND</b>					

Key: C<sub>u</sub> = Uniformity coefficient. C<sub>c</sub> = Coefficient of curvature as defined in BS EN ISO 14688-2:2018

GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - PSD - A4P | 752151.GPJ - v10\_01. Structural Soils Ltd. Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000. Fax: 0117-947-1004. Web: www.soils.co.uk. Email: ask@soils.co.uk. | 19/02/25 - 09:12 | AF3 |

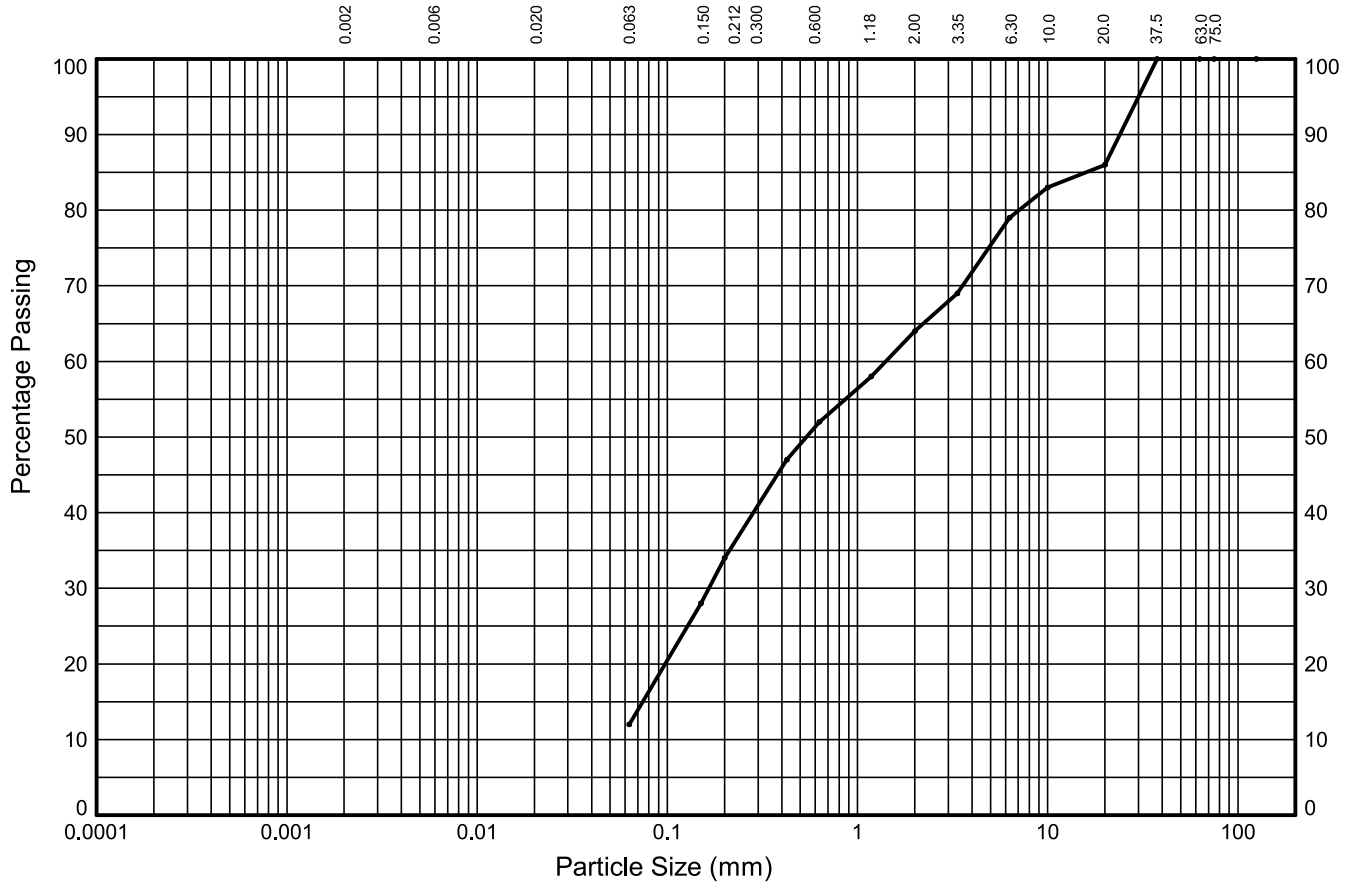
	<b>STRUCTURAL SOILS</b> 1a Princess Street Bedminster Bristol BS3 4AG	Compiled By <i>Francesca Bennett</i> <b>FRANCESCA BENNETT</b>	Date <b>19/02/25</b>	
	Contract <b>Muingmore WF</b>		Contract Ref: <b>752151</b>	

# PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016

NON-STANDARD TEST

Trial Pit: **TP-15**    Sample Ref: **4**    Sample Type: **D**    Depth (m): **3.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	-	-	-	22%	18%	12%	15%	7%	14%	
SILT			SAND			GRAVEL				
12%			52%			36%			0%	

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	86
10.0	83
6.30	79
3.35	69
2.00	64
1.18	58
0.630	52
0.425	47
0.200	34
0.150	28
0.063	12

Particle Diameter (mm)	Percent Passing (%)
Sedimentation sample was not pre-treated	

Coefficients	
D <sub>10</sub> (mm)	NA
D <sub>15</sub> (mm)	0.074
D <sub>30</sub> (mm)	0.165
D <sub>50</sub> (mm)	0.538
D <sub>60</sub> (mm)	1.407
D <sub>85</sub> (mm)	15.874
D <sub>90</sub> (mm)	23.935
C <sub>u</sub>	NA
C <sub>c</sub>	NA

Soil Description:  
**Brown very gravelly silty SAND**

Key: C<sub>u</sub> = Uniformity coefficient. C<sub>c</sub> = Coefficient of curvature as defined in BS EN ISO 14688-2:2018

GINT\_LIBRARY\_V10\_01\_GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - PSD - A4P | 752151.GPJ - v10\_01. Structural Soils Ltd. Branch Office - Tonbridge Lab: Anerley Court, Half Moon Lane, Hildenborough, Tonbridge, TN11 9HU. Tel: 01732 833111, Fax: 01732 838549, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:12 | AF3 |

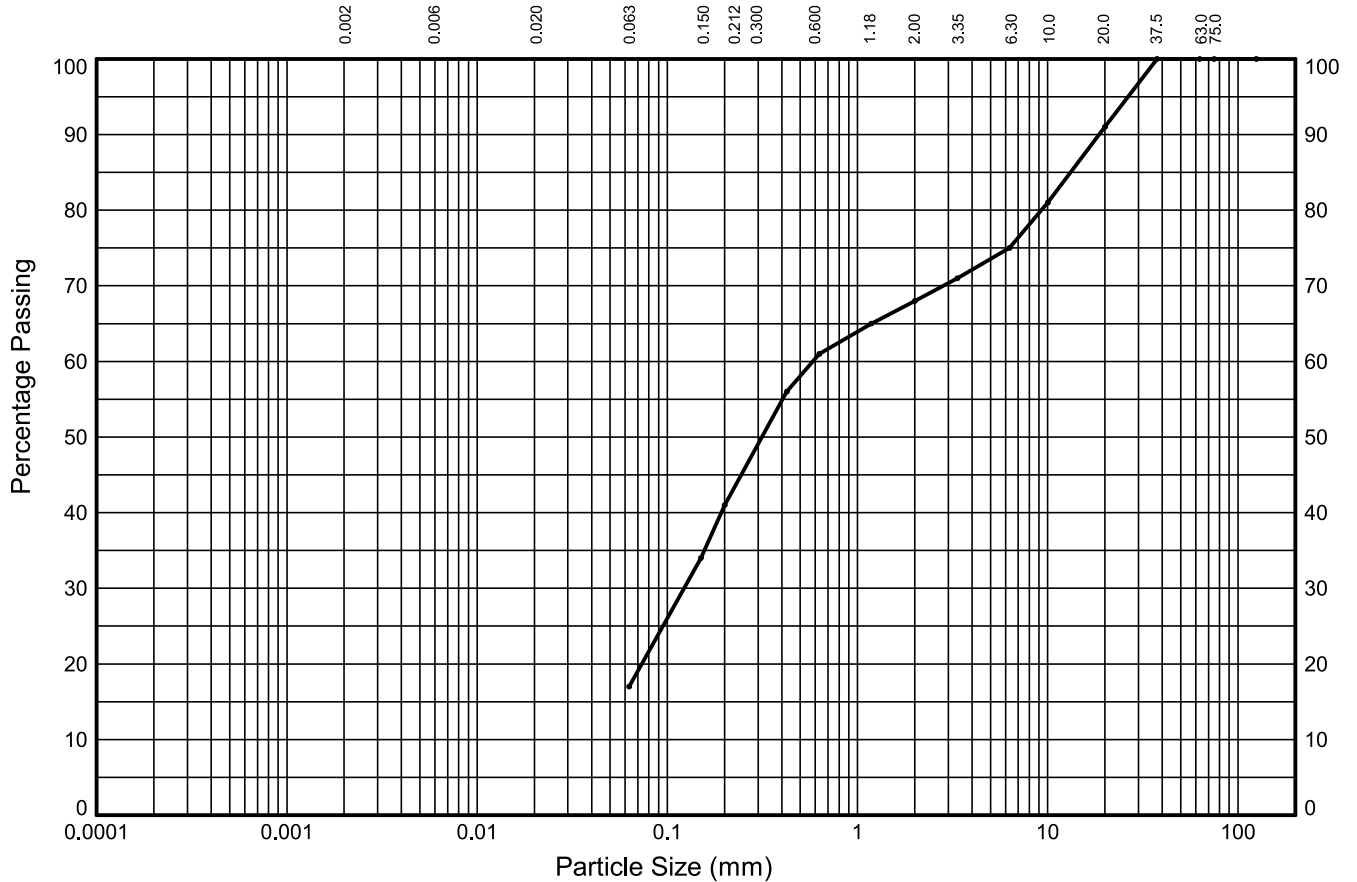
<p><b>STRUCTURAL SOILS</b> Bridge House North Farm Road Tunbridge Wells Kent TN2 3DR</p>	Compiled By		Date
	<i>Francesca Bennett</i>		19/02/25
	<b>FRANCESCA BENNETT</b>		
Contract		Contract Ref:	
<b>Muingmore WF</b>		<b>752151</b>	

# PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016

NON-STANDARD TEST

Trial Pit: **TP-24**    Sample Ref: **4**    Sample Type: **D**    Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	-	-	-	24%	20%	7%	7%	16%	9%	
SILT			SAND			GRAVEL				
17%			51%			32%			0%	

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	91
10.0	81
6.30	75
3.35	71
2.00	68
1.18	65
0.630	61
0.425	56
0.200	41
0.150	34
0.063	17

Particle Diameter (mm)	Percent Passing (%)
Sedimentation sample was not pre-treated	

Coefficients	
D <sub>10</sub> (mm)	NA
D <sub>15</sub> (mm)	NA
D <sub>30</sub> (mm)	0.122
D <sub>50</sub> (mm)	0.314
D <sub>60</sub> (mm)	0.582
D <sub>85</sub> (mm)	13.195
D <sub>90</sub> (mm)	18.661
C <sub>u</sub>	NA
C <sub>c</sub>	NA

Soil Description:  
**Brown very gravelly silty SAND**

Key: C<sub>u</sub> = Uniformity coefficient. C<sub>c</sub> = Coefficient of curvature as defined in BS EN ISO 14688-2:2018

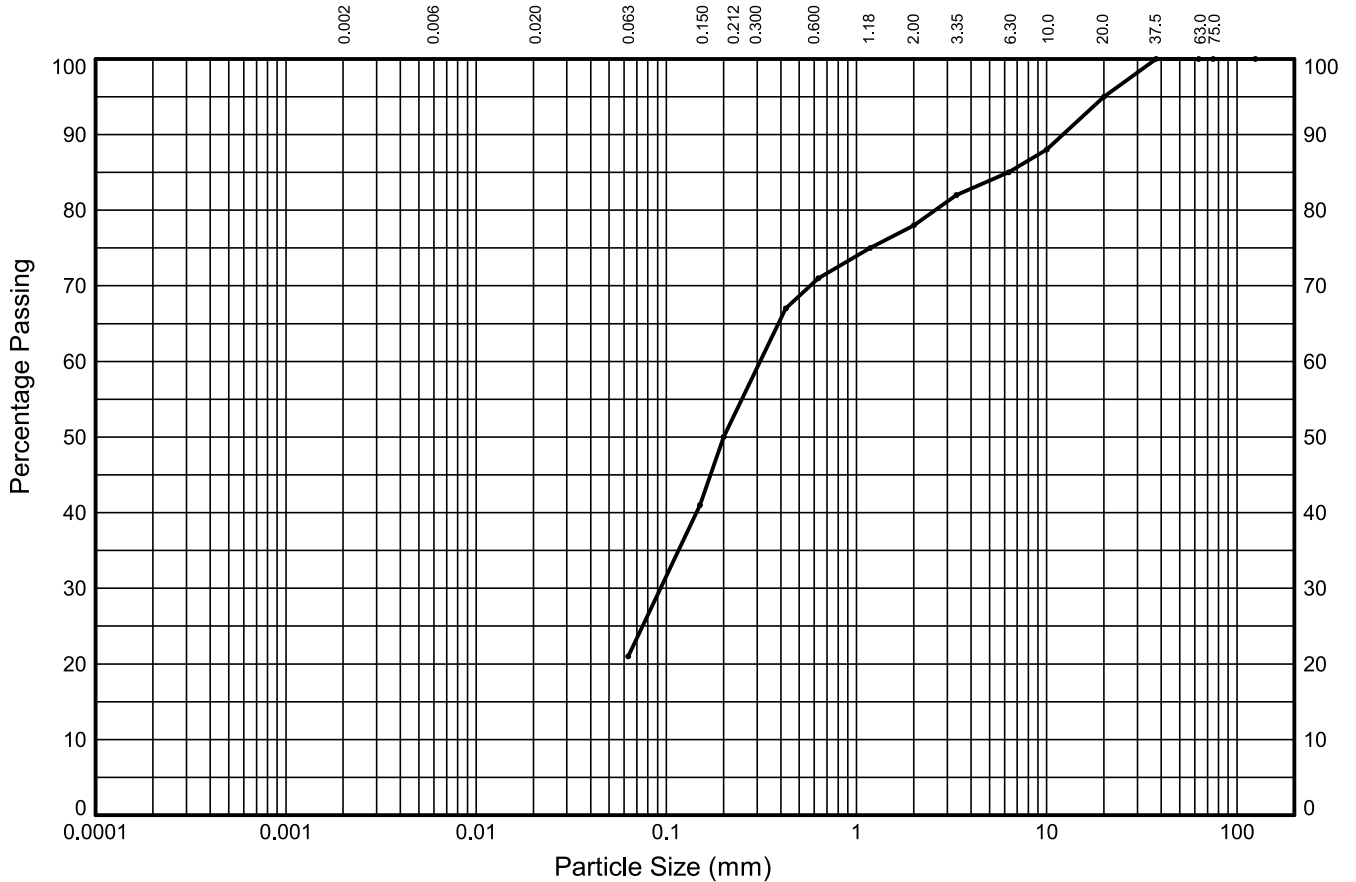
GINT\_LIBRARY\_V10\_01\_GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - PSD - A4P | 752151.GPJ - v10\_01. Structural Soils Ltd. Branch Office - Tonbridge Lab: Anerley Court, Half Moon Lane, Hildenborough, Tonbridge, TN11 9HU. Tel: 01732 833111, Fax: 01732 838549, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 19/02/25 - 09:12 | AF3 |

<p><b>STRUCTURAL SOILS</b>                  Bridge House                  North Farm Road                  Tunbridge Wells                  Kent TN2 3DR</p>	Compiled By		Date
	<i>Francesca Bennett</i>		19/02/25
	<b>FRANCESCA BENNETT</b>		
Contract		Contract Ref:	
<b>Muingmore WF</b>		<b>752151</b>	

# PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 5.2 of BS EN ISO 17892:Part 4:2016

Trial Pit: **TP-30**    Sample Ref:    Sample Type: **AMAL**    Depth (m): **3.00**  
 Amalgamation comprises: TP-30, Depth:3.00, Ref:4, Type:D + TP-30, Depth:3.00, Ref:3, Type:B



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	-	-	-	29%	21%	7%	7%	10%	5%	
SILT			SAND			GRAVEL				
21%			57%			22%			0%	

Test Sieve (mm)	Percent Passing (%)	Particle Diameter (mm)	Percent Passing (%)	Coefficients	
125.0	100			D <sub>10</sub> (mm)	NA
75.0	100			D <sub>15</sub> (mm)	NA
63.0	100			D <sub>30</sub> (mm)	0.093
37.5	100			D <sub>50</sub> (mm)	0.200
20.0	95			D <sub>60</sub> (mm)	0.312
10.0	88			D <sub>85</sub> (mm)	6.300
6.30	85			D <sub>90</sub> (mm)	12.190
3.35	82			C <sub>u</sub>	NA
2.00	78			C <sub>c</sub>	NA
1.18	75			Sedimentation sample was not pre-treated	
0.630	71				
0.425	67				
0.200	50				
0.150	41				
0.063	21				
Soil Description: <b>Grey very gravelly very silty SAND</b>					

Key: C<sub>u</sub> = Uniformity coefficient. C<sub>c</sub> = Coefficient of curvature as defined in BS EN ISO 14688-2:2018

GINT\_LIBRARY\_V10\_01\_GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - PSD - A4P | 752151.GPJ - v10\_01. Structural Soils Ltd. Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000. Fax: 0117-947-1004. Web: www.soils.co.uk. Email: ask@soils.co.uk. | 19/02/25 - 09:12 | AF3 |

	<b>STRUCTURAL SOILS</b> 1a Princess Street Bedminster Bristol BS3 4AG	Compiled By		Date	
		<i>Francesca Bennett</i>		<b>FRANCESCA BENNETT</b>	<b>19/02/25</b>
		Contract		Contract Ref:	
<b>Muingmore WF</b>		<b>752151</b>			

# DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM (1974-2006) : 1985

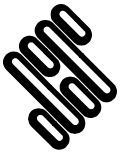

Exploratory Position ID	Sample Ref	Depth (m)	Type of Test	Width or Length (W or L) (mm)	Platen Separation (D) (mm)	Failure Load (P) (kN)	Equivalent Diameter (D <sub>e</sub> ) (mm)	Point Load (I <sub>s</sub> ) (MN/m <sup>2</sup> )	Size Factor (F)	Point Load Index (I <sub>s(50)</sub> ) (MN/m <sup>2</sup> )	Water Content (%)	Rock Type	Lab location
BH-01		14.60	D	40	62	3.880	62	1.01	1.10	1.11 (✓)	0.8	GRANITE	B
BH-01		14.60	A	62	35	3.774	53	1.37	1.02	1.40 (✓)	0.8	GRANITE	B

Results

I<sub>s</sub>(50) Mean Axial tests = **1.4** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Mean Diametral tests = **1.11** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Strength Anisotropy Index = **1.26** (calculated from highest and lowest diametral and axial I<sub>s</sub>(50) ratio)  
 Note: Size Correction Factor (F) calculated using  $F = (D_e/50)^{0.45}$  (where D<sub>e</sub> is equivalent core diameter).

Key

Type of Test column: A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, [NS] denotes Non-standard Test.  
 Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations  
 Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)

	STRUCTURAL SOILS 1a Princess Street Bedminster Bristol BS3 4AG	Compiled By		Date	Contract Ref:
		<i>Francesca Bennett</i>	<b>FRANCESCA BENNETT</b>	<b>19.02.25</b>	
		Contract:		<b>752151</b>	
		<b>Muingmore WF</b>			

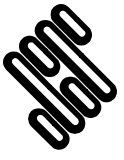
# DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM (1974-2006) : 1985

Exploratory Position ID	Sample Ref	Depth (m)	Type of Test	Width or Length (W or L) (mm)	Platen Separation (D) (mm)	Failure Load (P) (kN)	Equivalent Diameter (D <sub>e</sub> ) (mm)	Point Load (I <sub>s</sub> ) (MN/m <sup>2</sup> )	Size Factor (F)	Point Load Index (I <sub>s(50)</sub> ) (MN/m <sup>2</sup> )	Water Content (%)	Rock Type	Lab location
BH-02		12.10	D	32	62	13.034	62	3.39	1.10	3.74 (✓)	0.2	GRANITE	B
BH-02		12.10	A	62	51	13.030	63	3.24	1.11	3.60 (✓)	0.2	GRANITE	B

Results  
 I<sub>s</sub>(50) Mean Axial tests = **3.6** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Mean Diametral tests = **3.74** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Strength Anisotropy Index = **1.04** (calculated from highest and lowest diametral and axial I<sub>s</sub>(50) ratio)  
 Note: Size Correction Factor (F) calculated using  $F = (D_e/50)^{0.45}$  (where D<sub>e</sub> is equivalent core diameter).

Key  
 Type of Test column: A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, <sub>INSI</sub> denotes Non-standard Test.  
 Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations  
 Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)

 <p><b>STRUCTURAL SOILS</b>                  1a Princess Street                  Bedminster                  Bristol                  BS3 4AG</p>	Compiled By		Date	Contract Ref:  <b>752151</b>
	<i>Francesca Bennett</i>		<b>19.02.25</b>	
	Contract:  <b>Muingmore WF</b>			



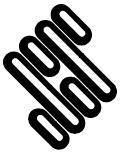
# DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM (1974-2006) : 1985

Exploratory Position ID	Sample Ref	Depth (m)	Type of Test	Width or Length (W or L) (mm)	Platen Separation (D) (mm)	Failure Load (P) (kN)	Equivalent Diameter (D <sub>e</sub> ) (mm)	Point Load (I <sub>s</sub> ) (MN/m <sup>2</sup> )	Size Factor (F)	Point Load Index (I <sub>s(50)</sub> ) (MN/m <sup>2</sup> )	Water Content (%)	Rock Type	Lab location
BH-03		7.90	D	52	62	22.882	62	5.95	1.10	6.56 (✓)	0.1	GRANITE	B
BH-03		7.90	A	62	54	20.038	65	4.70	1.13	5.30 (✓)	0.1	GRANITE	B

**Results**  
 I<sub>s</sub>(50) Mean Axial tests = **5.3** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Mean Diametral tests = **6.56** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Strength Anisotropy Index = **1.24** (calculated from highest and lowest diametral and axial I<sub>s</sub>(50) ratio)  
 Note: Size Correction Factor (F) calculated using  $F = (D_e/50)^{0.45}$  (where D<sub>e</sub> is equivalent core diameter).

**Key**  
 Type of Test column: A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, <sup>[NS]</sup> denotes Non-standard Test.  
 Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations  
 Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)

 <p><b>STRUCTURAL SOILS</b> 1a Princess Street Bedminster Bristol BS3 4AG</p>	Compiled By	Date	Contract Ref:
	<i>Francesca Bennett</i>	<b>FRANCESCA BENNETT</b>	
Contract: <b>Muingmore WF</b>		<b>752151</b>	





# DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM (1974-2006) : 1985


Exploratory Position ID	Sample Ref	Depth (m)	Type of Test	Width or Length (W or L) (mm)	Platen Separation (D) (mm)	Failure Load (P) (kN)	Equivalent Diameter (D <sub>e</sub> ) (mm)	Point Load (I <sub>s</sub> ) (MN/m <sup>2</sup> )	Size Factor (F)	Point Load Index (I <sub>s(50)</sub> ) (MN/m <sup>2</sup> )	Water Content (%)	Rock Type	Lab location
BH-05		9.50	D	53	62	27.734	62	7.21	1.10	7.95 (✓)	0.1	GRANITE	B
BH-05		9.50	A	62	53	23.162	65	5.54	1.12	6.22 (✓)	0.1	GRANITE	B

Results

I<sub>s</sub>(50) Mean Axial tests = **6.22** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Mean Diametral tests = **7.95** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Strength Anisotropy Index = **1.28** (calculated from highest and lowest diametral and axial I<sub>s</sub>(50) ratio)  
 Note: Size Correction Factor (F) calculated using  $F = (D_e/50)^{0.45}$  (where D<sub>e</sub> is equivalent core diameter).

Key

Type of Test column: A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, <sup>[NS]</sup> denotes Non-standard Test.  
 Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations  
 Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)

 <p><b>STRUCTURAL SOILS</b> 1a Princess Street Bedminster Bristol BS3 4AG</p>	Compiled By		Date	Contract Ref:
	<i>Francesca Bennett</i>		<b>FRANCESCA BENNETT</b>	
Contract:		<b>Muingmore WF</b>		<b>752151</b>








# DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM (1974-2006) : 1985

Exploratory Position ID	Sample Ref	Depth (m)	Type of Test	Width or Length (W or L) (mm)	Platen Separation (D) (mm)	Failure Load (P) (kN)	Equivalent Diameter (D <sub>e</sub> ) (mm)	Point Load (I <sub>s</sub> ) (MN/m <sup>2</sup> )	Size Factor (F)	Point Load Index (I <sub>s(50)</sub> ) (MN/m <sup>2</sup> )	Water Content (%)	Rock Type	Lab location
BH-09		9.30	D	63	62	24.294	62	6.32	1.10	6.96 (✓)	0.1	GRANITE	B
BH-09		9.30	I	60	25	5.418	44	2.84	0.94	2.67	0.1	GRANITE	B

Results  
 I<sub>s</sub>(50) Mean Diametral tests = **6.96** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Mean Irregular tests = **2.67** MN/m<sup>2</sup>  
 Unable to calculate I<sub>a</sub>(50) Strength Anisotropy Index from this dataset.  
 Note: Size Correction Factor (F) calculated using  $F = (D_e/50)^{0.45}$  (where D<sub>e</sub> is equivalent core diameter).

Key  
 Type of Test column: A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, [NS] denotes Non-standard Test.  
 Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations  
 Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)

	STRUCTURAL SOILS 1a Princess Street Bedminster Bristol BS3 4AG	Compiled By		Date	Contract Ref:
		<i>Francesca Bennett</i>	<b>FRANCESCA BENNETT</b>		
		Contract: <b>Muingmore WF</b>			<b>752151</b>




# DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM (1974-2006) : 1985

Exploratory Position ID	Sample Ref	Depth (m)	Type of Test	Width or Length (W or L) (mm)	Platen Separation (D) (mm)	Failure Load (P) (kN)	Equivalent Diameter (D <sub>e</sub> ) (mm)	Point Load (I <sub>s</sub> ) (MN/m <sup>2</sup> )	Size Factor (F)	Point Load Index (I <sub>s(50)</sub> ) (MN/m <sup>2</sup> )	Water Content (%)	Rock Type	Lab location
BH-10		5.30	D	45	62	6.946	62	1.81	1.10	1.99 (✓)	0.1	GRANITE	B
BH-10		5.30	I	59	28	8.682	46	4.13	0.96	3.97	0.1	GRANITE	B

Results  
 I<sub>s</sub>(50) Mean Diametral tests = **1.99** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Mean Irregular tests = **3.97** MN/m<sup>2</sup>  
 Unable to calculate I<sub>a</sub>(50) Strength Anisotropy Index from this dataset.  
 Note: Size Correction Factor (F) calculated using  $F = (D_e/50)^{0.45}$  (where D<sub>e</sub> is equivalent core diameter).

Key  
 Type of Test column: A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, [NS] denotes Non-standard Test.  
 Point Load Index column: (✓) = included in mean calculations, (x) = excluded from mean calculations  
 Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)

 <b>STRUCTURAL SOILS</b> 1a Princess Street Bedminster Bristol BS3 4AG	Compiled By		Date	Contract Ref:  <b>752151</b>
	<i>Francesca Bennett</i> Contract:		<b>19.02.25</b>	



# DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM (1974-2006) : 1985


Exploratory Position ID	Sample Ref	Depth (m)	Type of Test	Width or Length (W or L) (mm)	Platen Separation (D) (mm)	Failure Load (P) (kN)	Equivalent Diameter (D <sub>e</sub> ) (mm)	Point Load (I <sub>s</sub> ) (MN/m <sup>2</sup> )	Size Factor (F)	Point Load Index (I <sub>s(50)</sub> ) (MN/m <sup>2</sup> )	Water Content (%)	Rock Type	Lab location
BH-11		9.30	D	50	63	15.016	63	3.78	1.11	4.20 (✓)	0.1	GRANITE	B
BH-11		9.30	A	63	50	18.670	63	4.66	1.11	5.18 (✓)	0.1	GRANITE	B

Results

I<sub>s</sub>(50) Mean Axial tests = **5.18** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Mean Diametral tests = **4.2** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Strength Anisotropy Index = **1.23** (calculated from highest and lowest diametral and axial I<sub>s</sub>(50) ratio)  
 Note: Size Correction Factor (F) calculated using  $F = (D_e/50)^{0.45}$  (where D<sub>e</sub> is equivalent core diameter).

Key

Type of Test column: A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, <sup>[NS]</sup> denotes Non-standard Test.  
 Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations  
 Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)

	STRUCTURAL SOILS 1a Princess Street Bedminster Bristol BS3 4AG	Compiled By		Date	Contract Ref:
		<i>Francesca Bennett</i>		<b>FRANCESCA BENNETT</b>	
		Contract: <b>Muingmore WF</b>			<b>752151</b>









# DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM (1974-2006) : 1985

Exploratory Position ID	Sample Ref	Depth (m)	Type of Test	Width or Length (W or L) (mm)	Platen Separation (D) (mm)	Failure Load (P) (kN)	Equivalent Diameter (D <sub>e</sub> ) (mm)	Point Load (I <sub>s</sub> ) (MN/m <sup>2</sup> )	Size Factor (F)	Point Load Index (I <sub>s(50)</sub> ) (MN/m <sup>2</sup> )	Water Content (%)	Rock Type	Lab location
BH-MM2		8.10	D	45	62	9.452	62	2.46	1.10	2.71 (✓)	0.2	GRANITE	B
BH-MM2		8.10	A	62	43	6.014	58	1.77	1.07	1.90 (✓)	0.2	GRANITE	B

**Results**  
 I<sub>s</sub>(50) Mean Axial tests = **1.9** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Mean Diametral tests = **2.71** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Strength Anisotropy Index = **1.43** (calculated from highest and lowest diametral and axial I<sub>s</sub>(50) ratio)  
 Note: Size Correction Factor (F) calculated using  $F = (D_e/50)^{0.45}$  (where D<sub>e</sub> is equivalent core diameter).

**Key**  
 Type of Test column: A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, <sup>[NS]</sup> denotes Non-standard Test.  
 Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations  
 Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)

 <b>STRUCTURAL SOILS</b> 1a Princess Street Bedminster Bristol BS3 4AG	Compiled By	Date	Contract Ref:
	<i>Francesca Bennett</i>	<b>FRANCESCA BENNETT</b>	
	Contract: <b>Muingmore WF</b>		<b>752151</b>




# DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM (1974-2006) : 1985

Exploratory Position ID	Sample Ref	Depth (m)	Type of Test	Width or Length (W or L) (mm)	Platen Separation (D) (mm)	Failure Load (P) (kN)	Equivalent Diameter (D <sub>e</sub> ) (mm)	Point Load (I <sub>s</sub> ) (MN/m <sup>2</sup> )	Size Factor (F)	Point Load Index (I <sub>s(50)</sub> ) (MN/m <sup>2</sup> )	Water Content (%)	Rock Type	Lab location
BH-SS		14.70	D	40	62	1.340	62	0.35	1.10	0.38 (✓)	1.0	GRANITE	B
BH-SS		14.70	A	62	42	0.844	58	0.25	1.07	0.27 (✓)	1.0	GRANITE	B

Results  
 I<sub>s</sub>(50) Mean Axial tests = **0.27** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Mean Diametral tests = **0.38** MN/m<sup>2</sup>  
 I<sub>s</sub>(50) Strength Anisotropy Index = **1.42** (calculated from highest and lowest diametral and axial I<sub>s</sub>(50) ratio)  
 Note: Size Correction Factor (F) calculated using  $F = (D_e/50)^{0.45}$  (where D<sub>e</sub> is equivalent core diameter).

Key  
 Type of Test column: A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, <sup>[NS]</sup> denotes Non-standard Test.  
 Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations  
 Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tunbridge (TN2 3DR)

	<b>STRUCTURAL SOILS</b> 1a Princess Street Bedminster Bristol BS3 4AG	Compiled By		Date	Contract Ref:  <b>752151</b>
		Francesca Bennett		<b>FRANCESCA BENNETT</b>	
		Contract:  <b>Muingmore WF</b>			



# UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

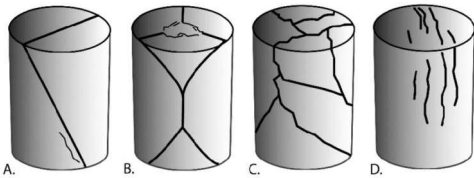
Borehole : **BH-02**

Sample Ref :

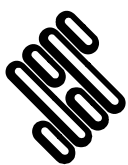
Sample Type : **C**

Depth (m) : **12.40**

SPECIMEN DETAILS	
Description	Grey GRANITE
Discontinuities	NA
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	63.44
Length (mm)	165.26
L/D (2.0-3.0)	2.61
Mass (g)	1414.10
Bulk Density (Mg/m <sup>3</sup> )	2.71
Dry Density (Mg/m <sup>3</sup> )	2.70
Moisture Content (%)	0.13
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	NA
Duration (min:sec)	06:55
Stress rate (MPa/s)	0.3164
Load at failure (kN)	398.3
Peak stress (MPa)	126
Axial strain at failure (%)	0.47
Failure mode	Multiple fracture A. Simple shear <input type="checkbox"/> B. Multiple shear <input type="checkbox"/> C. Multiple fracture <input checked="" type="checkbox"/> D. Vertical splitting <input type="checkbox"/>
Relationship of failure and discontinuities	NA



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8.07 | GrciText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:22 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By

*Francesca Bennett*

**FRANCESCA BENNETT**

Date

**19/02/25**

Contract

**Muingmore WF**

Job No

**752151**



# UNIAXIAL COMPRESSIVE STRENGTH

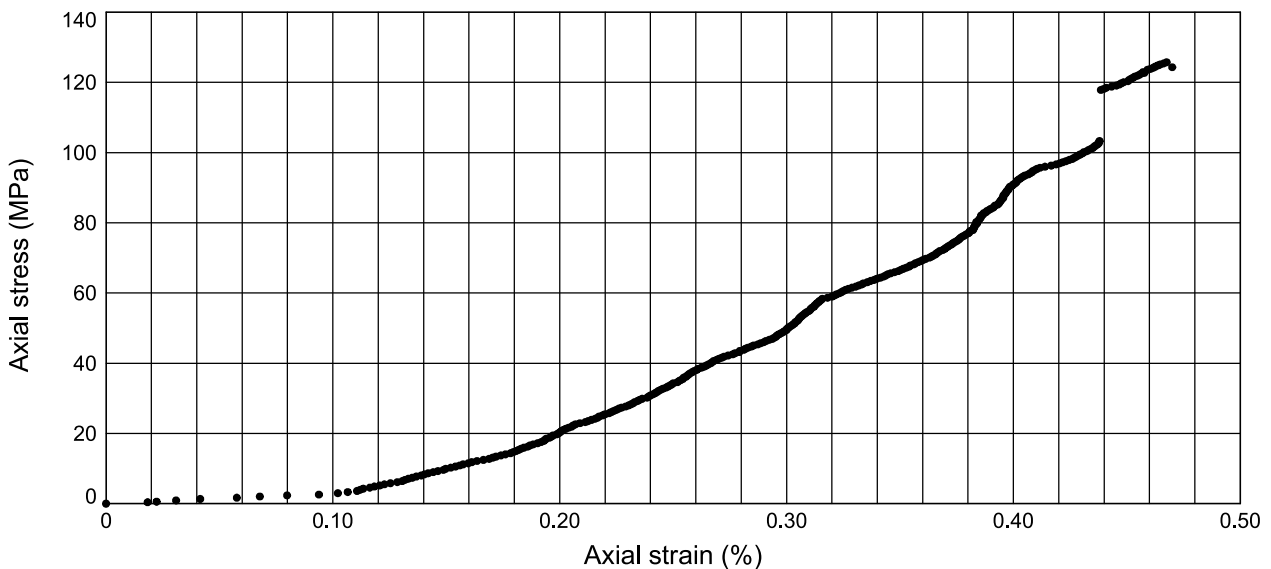
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-02**

Sample Ref :

Sample Type : **C**

Depth (m) : **12.40**



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Mungmore WF</b>		<b>752151</b>

# UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

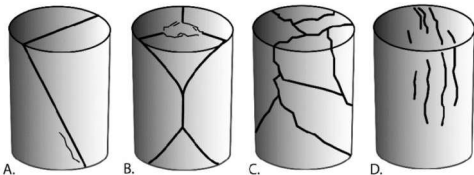
Borehole : **BH-03**

Sample Ref :

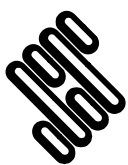
Sample Type : **C**

Depth (m) : **7.90**

SPECIMEN DETAILS	
Description	Pinkish grey GRANITE
Discontinuities	NA
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	62.96
Length (mm)	160.41
L/D (2.0-3.0)	2.55
Mass (g)	1327.54
Bulk Density (Mg/m <sup>3</sup> )	2.66
Dry Density (Mg/m <sup>3</sup> )	2.65
Moisture Content (%)	0.18
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	NA
Duration (min:sec)	13:59
Stress rate (MPa/s)	0.0964
Load at failure (kN)	321.5
Peak stress (MPa)	103.3
Axial strain at failure (%)	0.46
Failure mode	Multiple fracture A. Simple shear <input type="checkbox"/> B. Multiple shear <input type="checkbox"/> C. Multiple fracture <input checked="" type="checkbox"/> D. Vertical splitting <input type="checkbox"/>
Relationship of failure and discontinuities	NA



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8.07 | GrciText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:26 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By

*Francesca Bennett*

**FRANCESCA BENNETT**

Date

**19/02/25**

Contract

**Muingmore WF**

Job No

**752151**



# UNIAXIAL COMPRESSIVE STRENGTH

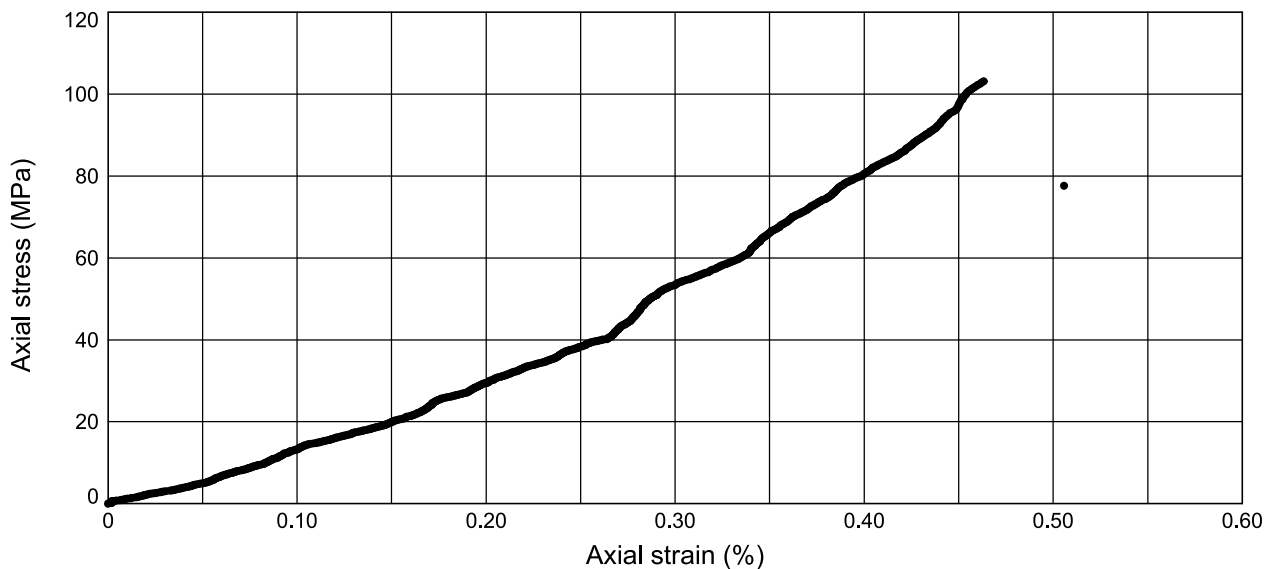
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-03**

Sample Ref :

Sample Type : **C**

Depth (m) : **7.90**



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Muingmore WF</b>		<b>752151</b>

# UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

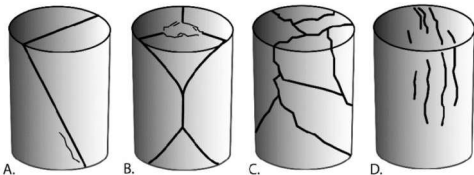
Borehole : **BH-04**

Sample Ref :

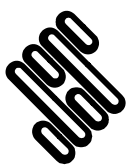
Sample Type : **C**

Depth (m) : **11.00**

SPECIMEN DETAILS	
Description	Grey GRANITE
Discontinuities	NA
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	63.29
Length (mm)	159.54
L/D (2.0-3.0)	2.52
Mass (g)	1333.43
Bulk Density (Mg/m <sup>3</sup> )	2.66
Dry Density (Mg/m <sup>3</sup> )	2.65
Moisture Content (%)	0.09
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	NA
Duration (min:sec)	11:33
Stress rate (MPa/s)	0.1589
Load at failure (kN)	390.5
Peak stress (MPa)	124.1
Axial strain at failure (%)	0.99
Failure mode	Vertical splitting A. Simple shear <input type="checkbox"/> B. Multiple shear <input type="checkbox"/> C. Multiple fracture <input type="checkbox"/> D. Vertical splitting <input checked="" type="checkbox"/>
Relationship of failure and discontinuities	NA



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8.07 | GrciText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:33 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By

*Francesca Bennett*

**FRANCESCA BENNETT**

Date

**19/02/25**

Contract

**Muingmore WF**

Job No

**752151**



# UNIAXIAL COMPRESSIVE STRENGTH

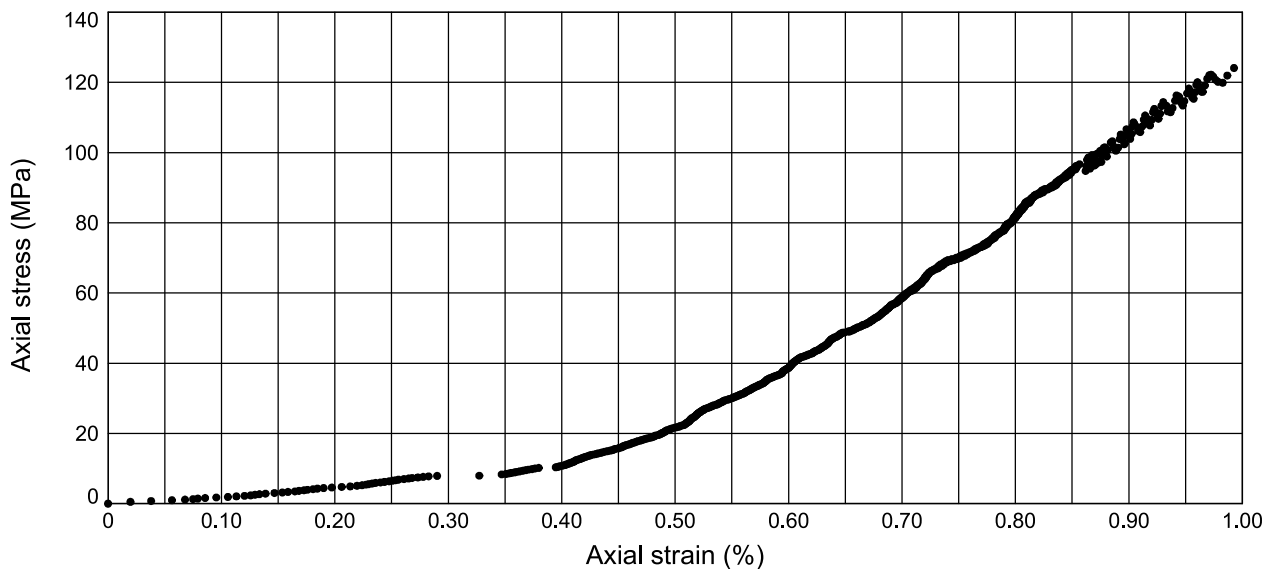
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-04**

Sample Ref :

Sample Type : **C**

Depth (m) : **11.00**



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - UCS STRESS VS STRAIN GRAPH | 752151.GPJ - V10\_01.  
 Structural Soils Ltd. Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000. Fax: 0117-947-1004. Web: www.sols.co.uk. Email: ask@sols.co.uk. | 19/02/25 - 09:36 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Mungmore WF</b>		<b>752151</b>

# UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

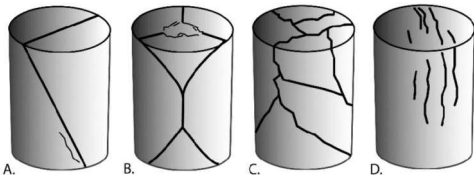
Borehole : **BH-05**

Sample Ref :

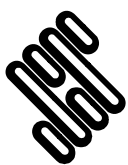
Sample Type : **C**

Depth (m) : **9.90**

SPECIMEN DETAILS	
Description	Grey and white GRANITE
Discontinuities	NA
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	63.48
Length (mm)	159.76
L/D (2.0-3.0)	2.52
Mass (g)	1347.92
Bulk Density (Mg/m <sup>3</sup> )	2.67
Dry Density (Mg/m <sup>3</sup> )	2.66
Moisture Content (%)	0.11
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	NA
Duration (min:sec)	12:21
Stress rate (MPa/s)	0.1580
Load at failure (kN)	372.2
Peak stress (MPa)	117.6
Axial strain at failure (%)	0.6
Failure mode	Multiple fracture A. Simple shear <input type="checkbox"/> B. Multiple shear <input type="checkbox"/> C. Multiple fracture <input checked="" type="checkbox"/> D. Vertical splitting <input type="checkbox"/>
Relationship of failure and discontinuities	NA



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8.07 | GrciText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:37 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By

*Francesca Bennett*

**FRANCESCA BENNETT**

Date

**19/02/25**

Contract

**Muingmore WF**

Job No

**752151**



# UNIAXIAL COMPRESSIVE STRENGTH

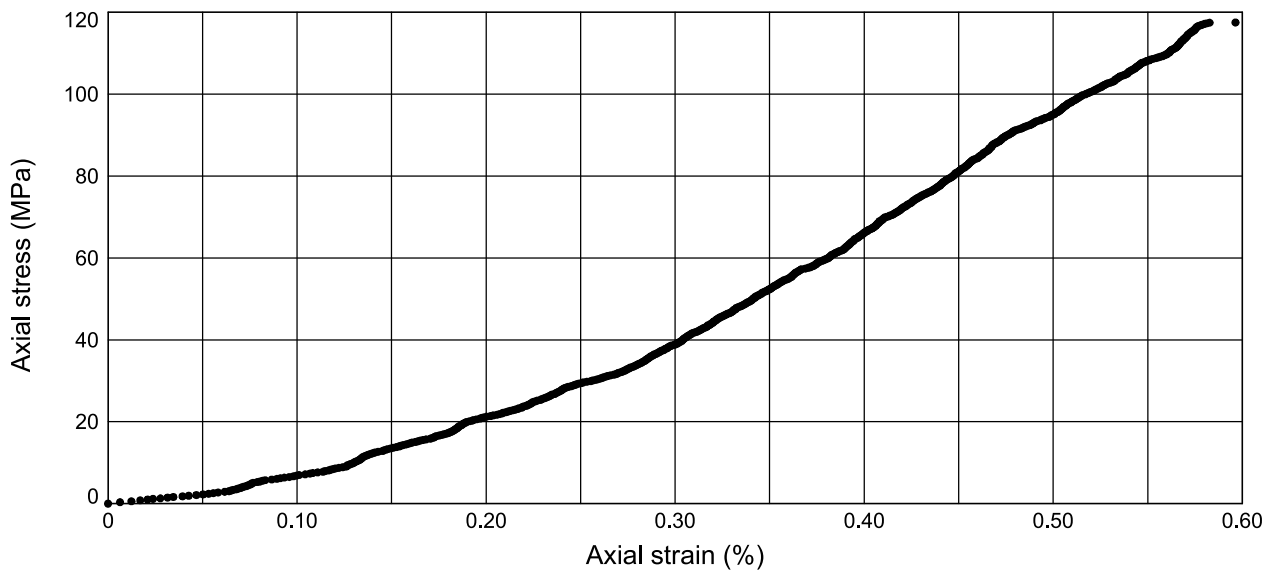
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-05**

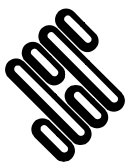
Sample Ref :

Sample Type : **C**

Depth (m) : **9.90**



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8\_07 [ Graph L - UCS STRESS VS STRAIN GRAPH ] 752151.GPJ - v10\_01.  
 Structural Soils Ltd. Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000. Fax: 0117-947-1004. Web: www.soils.co.uk. Email: ask@soils.co.uk. | 19/02/25 - 09:39 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Muningmore WF</b>		<b>752151</b>

# UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

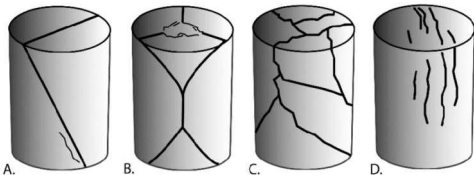
Borehole : **BH-07**

Sample Ref :

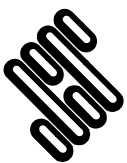
Sample Type : **C**

Depth (m) : **14.70**

SPECIMEN DETAILS	
Description	Black and white GRANITE
Discontinuities	NA
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	63.73
Length (mm)	165.83
L/D (2.0-3.0)	2.60
Mass (g)	1521.46
Bulk Density (Mg/m <sup>3</sup> )	2.88
Dry Density (Mg/m <sup>3</sup> )	2.87
Moisture Content (%)	0.12
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	NA
Duration (min:sec)	01:25
Stress rate (MPa/s)	0.0940
Load at failure (kN)	26.9
Peak stress (MPa)	8.4
Axial strain at failure (%)	0.59
Failure mode	Vertical splitting A. Simple shear <input type="checkbox"/> B. Multiple shear <input type="checkbox"/> C. Multiple fracture <input type="checkbox"/> D. Vertical splitting <input checked="" type="checkbox"/>
Relationship of failure and discontinuities	NA



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8\_07\_001 PjVersion: v8\_07 | GrcText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:40 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By

*Francesca Bennett*

**FRANCESCA BENNETT**

Date

**19/02/25**

Contract

**Muingmore WF**

Job No

**752151**



# UNIAXIAL COMPRESSIVE STRENGTH

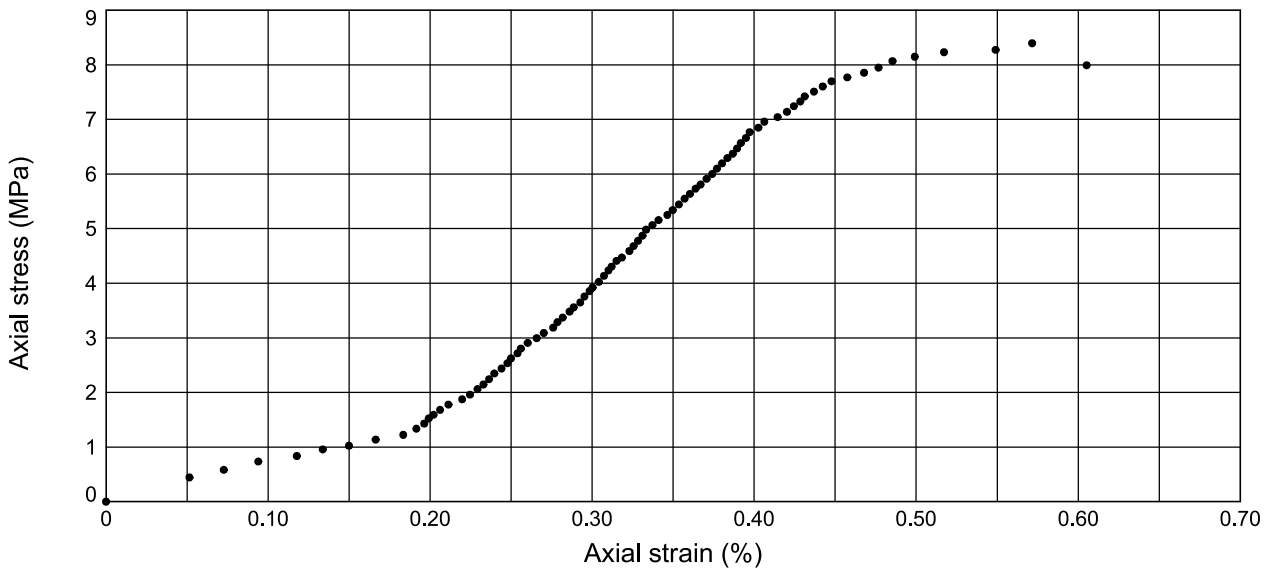
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-07**

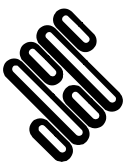
Sample Ref :

Sample Type : **C**

Depth (m) : **14.70**



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - UCS STRESS VS STRAIN GRAPH | 752151.GPJ - V10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.sols.co.uk, Email: ask@sols.co.uk, | 19/02/25 - 09:41 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Muingmore WF</b>		<b>752151</b>

# UNIAXIAL COMPRESSIVE STRENGTH

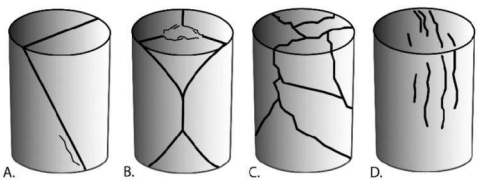
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-08**

Sample Ref :

Sample Type : **C**

Depth (m) : **9.00**

SPECIMEN DETAILS	
Description	Yellowish grey GRANITE
Discontinuities	NA
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	63.43
Length (mm)	138.36
L/D (2.0-3.0)	2.18
Mass (g)	1151.83
Bulk Density (Mg/m <sup>3</sup> )	2.63
Dry Density (Mg/m <sup>3</sup> )	2.62
Moisture Content (%)	0.55
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	NA
Duration (min:sec)	09:58
Stress rate (MPa/s)	0.0316
Load at failure (kN)	73.5
Peak stress (MPa)	23.3
Axial strain at failure (%)	0.42
Failure mode	Vertical splitting A. Simple shear <input type="checkbox"/> B. Multiple shear <input type="checkbox"/> C. Multiple fracture <input type="checkbox"/> D. Vertical splitting <input checked="" type="checkbox"/>
	
Relationship of failure and discontinuities	NA

GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8.07 | GrciText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:42 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By

*Francesca Bennett*

**FRANCESCA BENNETT**

Date

**19/02/25**

Contract

**Muingmore WF**

Job No

**752151**



# UNIAXIAL COMPRESSIVE STRENGTH

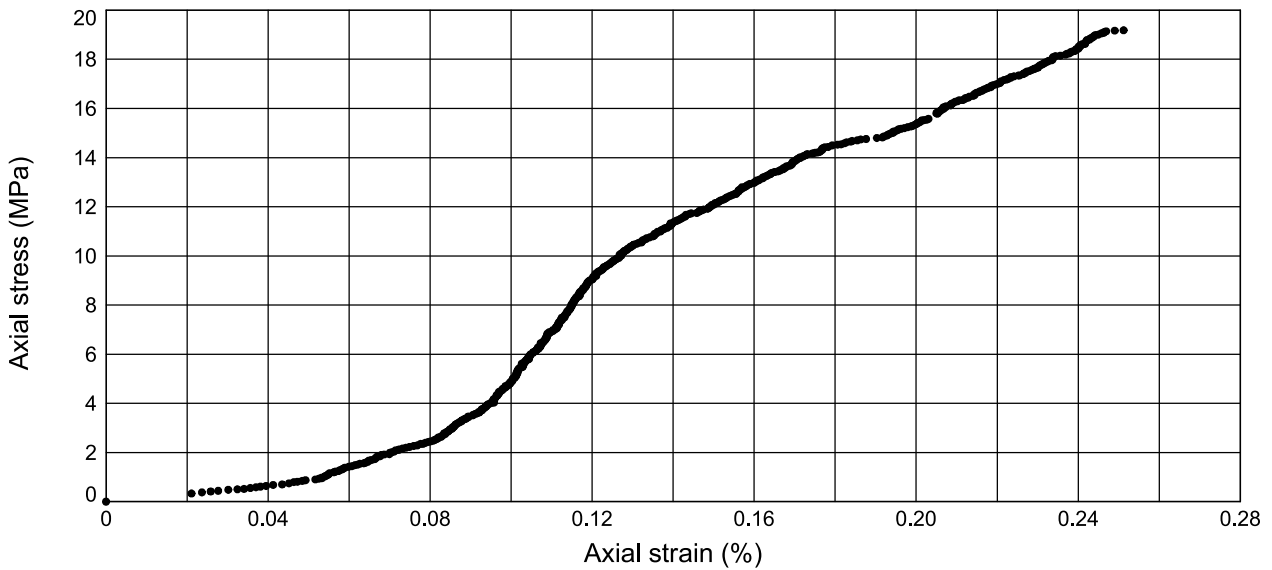
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-08**

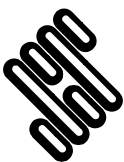
Sample Ref :

Sample Type : **C**

Depth (m) : **9.00**



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8\_07 | ProjVersion: v8\_07 | Graph L - UCS STRESS VS STRAIN GRAPH | 752151.GPJ - v10\_01.  
 Structural Soils Ltd. Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk | 19/02/25 - 09:44 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Muingmore WF</b>		<b>752151</b>

# UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

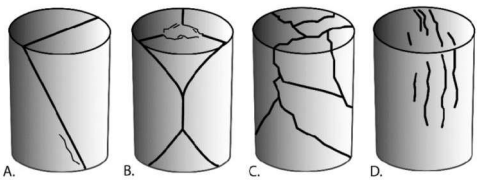
Borehole : **BH-09**

Sample Ref :

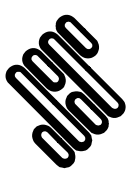
Sample Type : **C**

Depth (m) : **9.00**

SPECIMEN DETAILS	
Description	Dark grey and light grey GRANITE
Discontinuities	NA
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	63.59
Length (mm)	162.64
L/D (2.0-3.0)	2.56
Mass (g)	1569.77
Bulk Density (Mg/m <sup>3</sup> )	3.04
Dry Density (Mg/m <sup>3</sup> )	3.04
Moisture Content (%)	0.08
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	NA
Duration (min:sec)	08:55
Stress rate (MPa/s)	0.2204
Load at failure (kN)	376.4
Peak stress (MPa)	118.5
Axial strain at failure (%)	0.53
Failure mode	Vertical splitting A. Simple shear <input type="checkbox"/> B. Multiple shear <input type="checkbox"/> C. Multiple fracture <input type="checkbox"/> D. Vertical splitting <input checked="" type="checkbox"/>
Relationship of failure and discontinuities	NA



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8.07 | GrciText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:45 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract	Job No	
<b>Muingmore WF</b>	<b>752151</b>	

# UNIAXIAL COMPRESSIVE STRENGTH

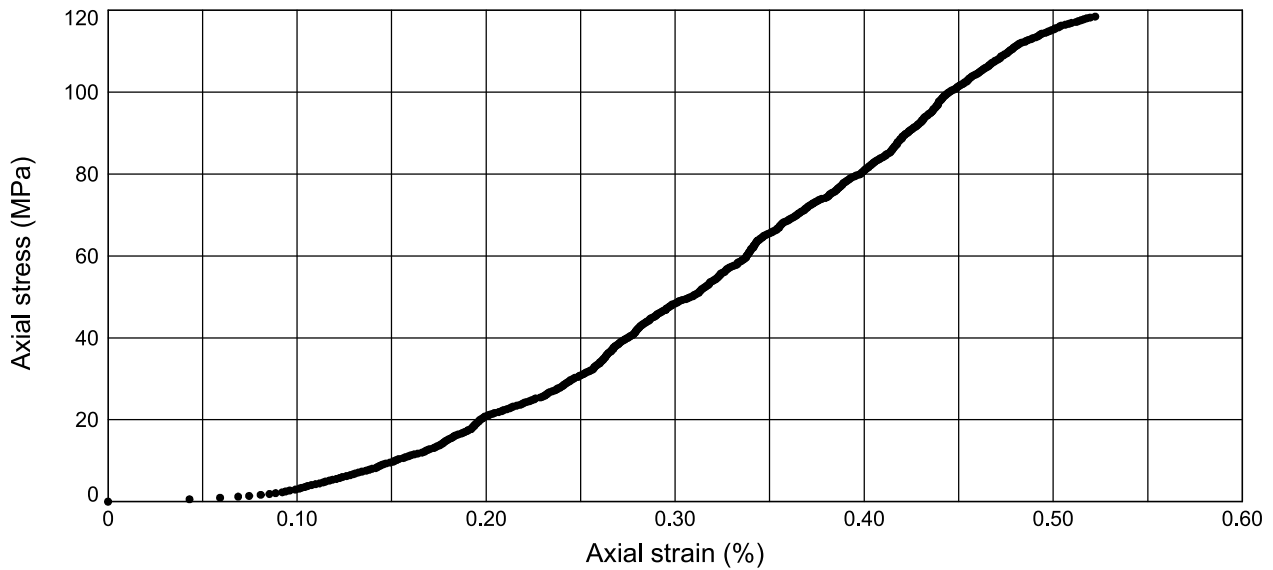
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-09**

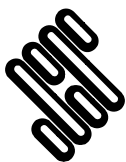
Sample Ref :

Sample Type : **C**

Depth (m) : **9.00**



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8\_07 | ProjVersion: v8\_07 | Graph L - UCS STRESS VS STRAIN GRAPH | 752151.GPJ - V10\_01.  
 Structural Soils Ltd. Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:46 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Muingmore WF</b>		<b>752151</b>

# UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-10**

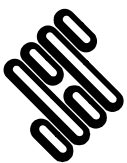
Sample Ref :

Sample Type : **C**

Depth (m) : **5.00**

SPECIMEN DETAILS	
Description	Grey and white GRANITE
Discontinuities	Visible bedding planes
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	63.33
Length (mm)	160.39
L/D (2.0-3.0)	2.53
Mass (g)	1372.16
Bulk Density (Mg/m <sup>3</sup> )	2.72
Dry Density (Mg/m <sup>3</sup> )	2.51
Moisture Content (%)	8.0
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	72°
Duration (min:sec)	06:44
Stress rate (MPa/s)	0.0952
Load at failure (kN)	120.0
Peak stress (MPa)	38.0
Axial strain at failure (%)	0.38
Failure mode	Simple shear
	A. Simple shear <input checked="" type="checkbox"/>
	B. Multiple shear <input type="checkbox"/>
	C. Multiple fracture <input type="checkbox"/>
	D. Vertical splitting <input type="checkbox"/>
Relationship of failure and discontinuities	Along visible bedding planes

GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8\_07 | GrcText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:47 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By

*Francesca Bennett*

**FRANCESCA BENNETT**

Date

**19/02/25**

Contract

**Muingmore WF**

Job No

**752151**



# UNIAXIAL COMPRESSIVE STRENGTH

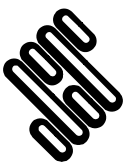
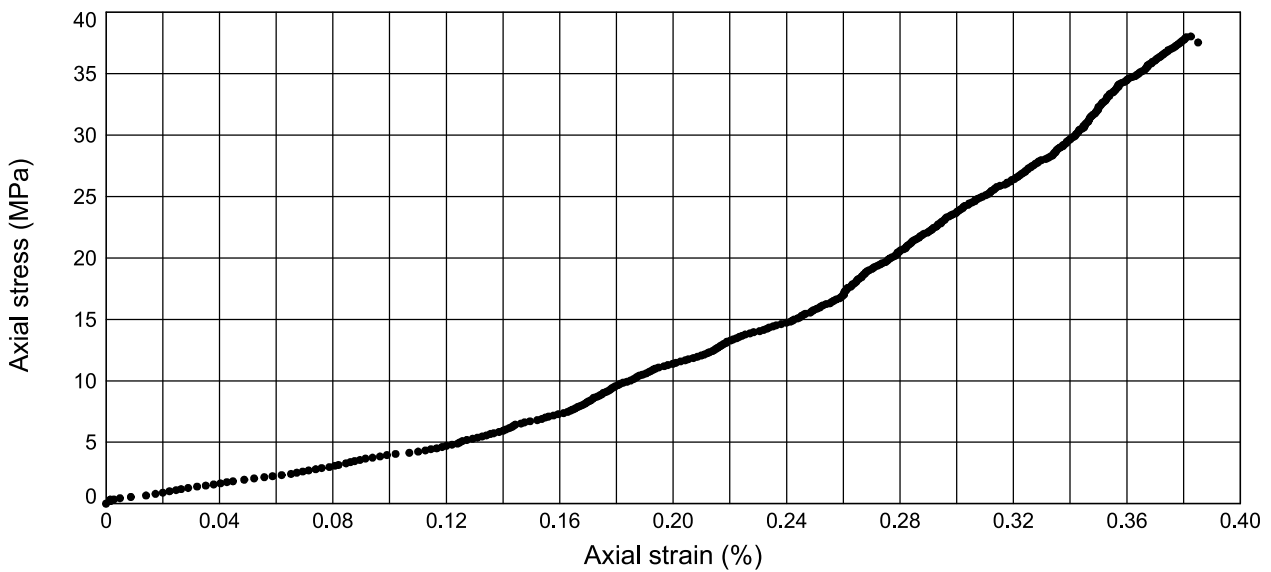
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-10**

Sample Ref :

Sample Type : **C**

Depth (m) : **5.00**



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Muingmore WF</b>		<b>752151</b>

# UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

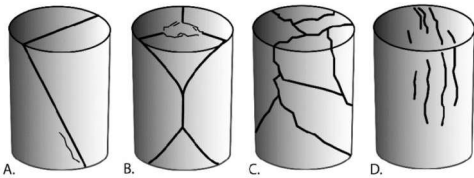
Borehole : **BH-11**

Sample Ref :

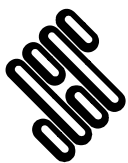
Sample Type : **C**

Depth (m) : **9.10**

SPECIMEN DETAILS	
Description	Grey and pink GRANITE
Discontinuities	NA
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	63.33
Length (mm)	159.48
L/D (2.0-3.0)	2.52
Mass (g)	1330.12
Bulk Density (Mg/m <sup>3</sup> )	2.65
Dry Density (Mg/m <sup>3</sup> )	2.64
Moisture Content (%)	0.16
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	NA
Duration (min:sec)	08:14
Stress rate (MPa/s)	0.1587
Load at failure (kN)	238.7
Peak stress (MPa)	75.8
Axial strain at failure (%)	0.49
Failure mode	Multiple fracture A. Simple shear <input type="checkbox"/> B. Multiple shear <input type="checkbox"/> C. Multiple fracture <input checked="" type="checkbox"/> D. Vertical splitting <input type="checkbox"/>
Relationship of failure and discontinuities	NA



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8.07 | GrciText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:51 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By

*Francesca Bennett*

**FRANCESCA BENNETT**

Date

**19/02/25**

Contract

**Muingmore WF**

Job No

**752151**



# UNIAXIAL COMPRESSIVE STRENGTH

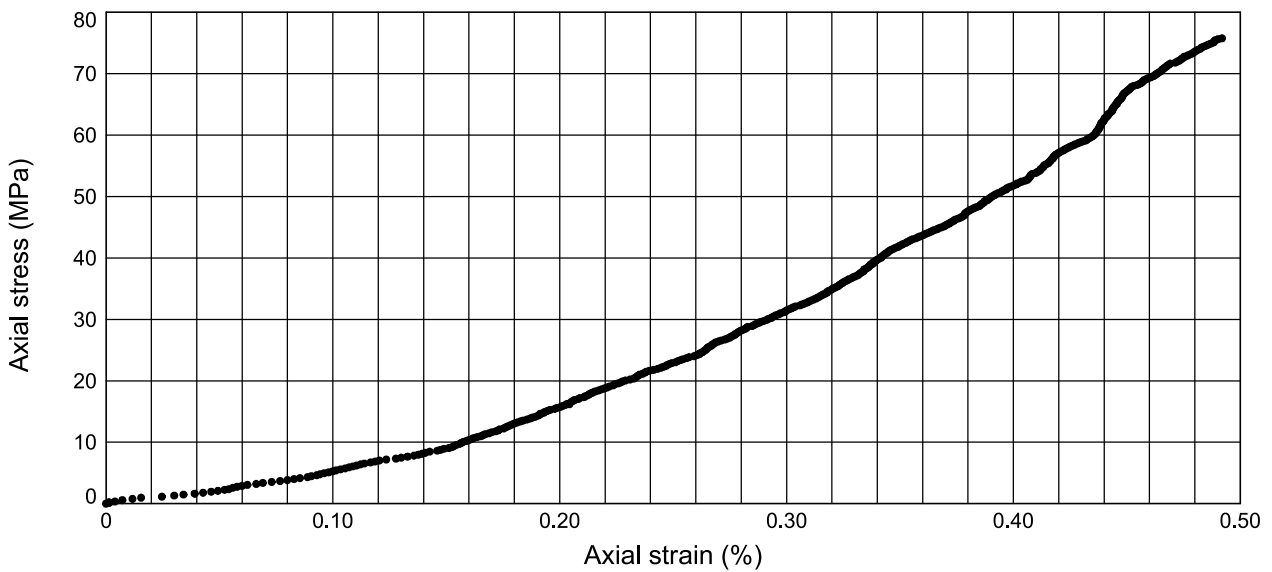
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-11**

Sample Ref :

Sample Type : **C**

Depth (m) : **9.10**



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Muingmore WF</b>		<b>752151</b>

# UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-13**

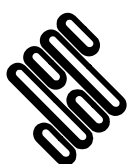
Sample Ref :

Sample Type : **C**

Depth (m) : **16.80**

SPECIMEN DETAILS	
Description	Pink and grey GRANITE
Discontinuities	Visible pre-existing fractures
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	63.65
Length (mm)	145.45
L/D (2.0-3.0)	2.29
Mass (g)	1180.92
Bulk Density (Mg/m <sup>3</sup> )	2.55
Dry Density (Mg/m <sup>3</sup> )	2.55
Moisture Content (%)	0.26
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	Random
Duration (min:sec)	05:18
Stress rate (MPa/s)	0.0943
Load at failure (kN)	76.0
Peak stress (MPa)	23.9
Axial strain at failure (%)	0.43
Failure mode	Simple shear
	A. Simple shear <input checked="" type="checkbox"/>
	B. Multiple shear <input type="checkbox"/>
	C. Multiple fracture <input type="checkbox"/>
	D. Vertical splitting <input type="checkbox"/>
Relationship of failure and discontinuities	Failed along visible fractures

GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8.07 | GrcText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 09:58 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By

*Francesca Bennett*

**FRANCESCA BENNETT**

Date

**19/02/25**

Contract

**Muingmore WF**

Job No

**752151**



# UNIAXIAL COMPRESSIVE STRENGTH

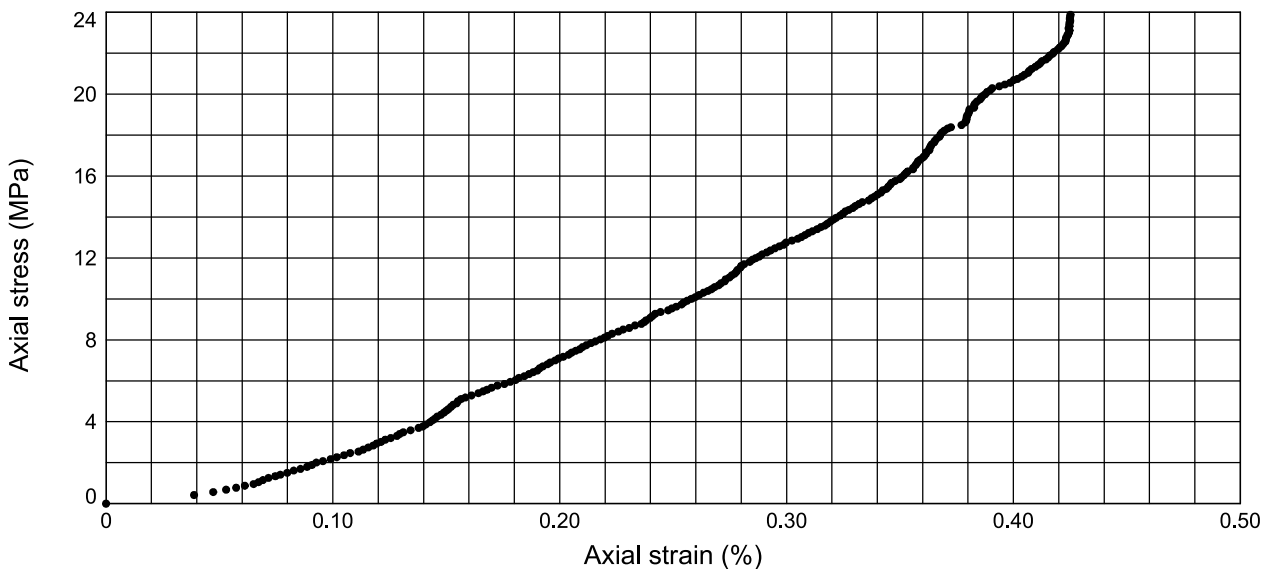
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-13**

Sample Ref :

Sample Type : **C**

Depth (m) : **16.80**



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Muingmore WF</b>		<b>752151</b>

# UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

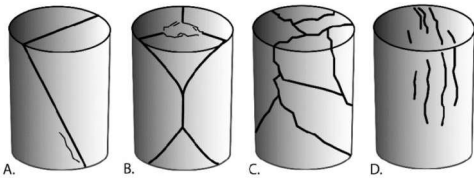
Borehole : **BH-MM1**

Sample Ref :

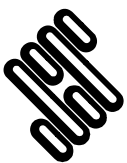
Sample Type : **C**

Depth (m) : **8.60**

SPECIMEN DETAILS	
Description	Pink, light grey and dark grey GRANITE
Discontinuities	NA
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	63.49
Length (mm)	130.75
L/D (2.0-3.0)	2.06
Mass (g)	1098.6
Bulk Density (Mg/m <sup>3</sup> )	2.65
Dry Density (Mg/m <sup>3</sup> )	2.64
Moisture Content (%)	0.40
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	NA
Duration (min:sec)	03:41
Stress rate (MPa/s)	0.1895
Load at failure (kN)	134.3
Peak stress (MPa)	42.4
Axial strain at failure (%)	0.62
Failure mode	Multiple fracture A. Simple shear <input type="checkbox"/> B. Multiple shear <input type="checkbox"/> C. Multiple fracture <input checked="" type="checkbox"/> D. Vertical splitting <input type="checkbox"/>
Relationship of failure and discontinuities	NA



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8.07 | GrcText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 10:01 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By

*Francesca Bennett*

**FRANCESCA BENNETT**

Date

**19/02/25**

Contract

**Muingmore WF**

Job No

**752151**



# UNIAXIAL COMPRESSIVE STRENGTH

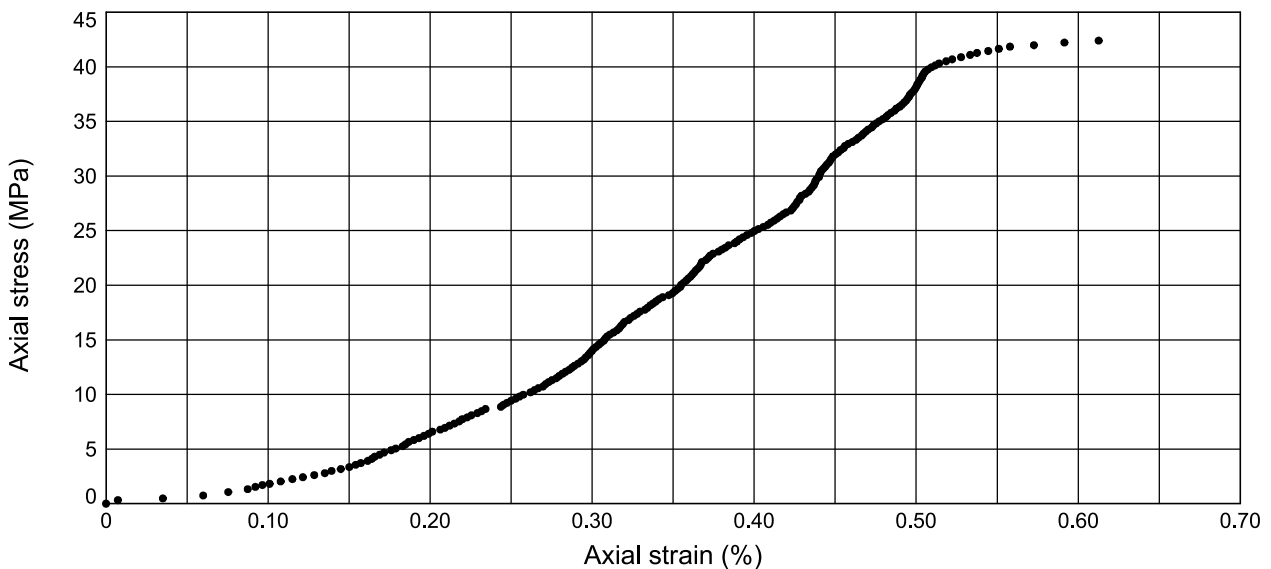
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-MM1**

Sample Ref :

Sample Type : **C**

Depth (m) : **8.60**



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - UCS STRESS VS STRAIN GRAPH | 752151.GPJ - V10\_01.  
 Structural Soils Ltd. Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000. Fax: 0117-947-1004. Web: www.soils.co.uk. Email: ask@soils.co.uk. | 19/02/25 - 10:02 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Muingmore WF</b>		<b>752151</b>

# UNIAXIAL COMPRESSIVE STRENGTH

Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

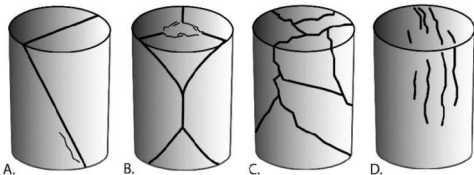
Borehole : **BH-MM2**

Sample Ref :

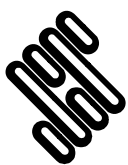
Sample Type : **C**

Depth (m) : **8.30**

SPECIMEN DETAILS	
Description	Grey, dark grey and pink GRANITE
Discontinuities	Visible pre-existing fractures
Storage conditions prior to testing	21°C
Re-cored	NO
Straightness check	PASS
Flatness check	PASS
Perpendicularity check	PASS
Diameter (mm)	63.31
Length (mm)	139.69
L/D (2.0-3.0)	2.21
Mass (g)	1130.97
Bulk Density (Mg/m <sup>3</sup> )	2.57
Dry Density (Mg/m <sup>3</sup> )	2.56
Moisture Content (%)	0.65
TEST DETAILS	
Compression machine	2000 kN APS-Wille Geotechnic SN 46120004. SSL No 400790
Angle of axis of loading with respect to discontinuities	Random
Duration (min:sec)	05:07
Stress rate (MPa/s)	0.1271
Load at failure (kN)	121.1
Peak stress (MPa)	38.5
Axial strain at failure (%)	0.89
Failure mode	Multiple fracture A. Simple shear <input type="checkbox"/> B. Multiple shear <input type="checkbox"/> C. Multiple fracture <input checked="" type="checkbox"/> D. Vertical splitting <input type="checkbox"/>
Relationship of failure and discontinuities	Failed along visible fractures



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8.07 | GrciText.L - UCS DETAILED STRESS AND STRAIN - A4P | 752151.GPJ - v10\_01.  
 Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG, Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk, | 19/02/25 - 10:03 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By

*Francesca Bennett*

**FRANCESCA BENNETT**

Date

**19/02/25**

Contract

**Muingmore WF**

Job No

**752151**



# UNIAXIAL COMPRESSIVE STRENGTH

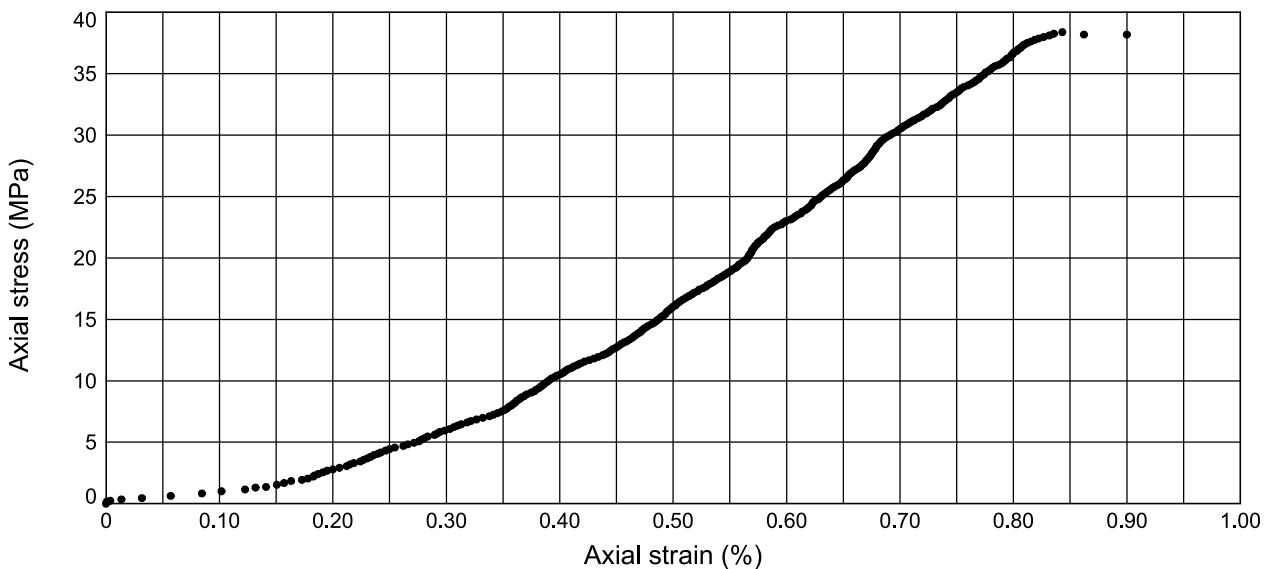
Preparation in accordance with ASTM D4543-19  
 Testing in accordance with ISRM (1974-2006) : 1979

Borehole : **BH-MM2**

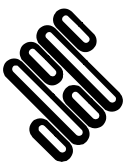
Sample Ref :

Sample Type : **C**

Depth (m) : **8.30**



GINT\_LIBRARY\_V10\_01.GLB LibVersion: v8\_07\_001 ProjVersion: v8\_07 | Graph L - UCS STRESS VS STRAIN GRAPH | 752151.GPJ - V10\_01.  
 Structural Soils Ltd. Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000. Fax: 0117-947-1004. Web: www.soils.co.uk. Email: ask@soils.co.uk. | 19/02/25 - 10:05 | AF3 |



**STRUCTURAL SOILS**  
 1a Princess Street  
 Bedminster  
 Bristol  
 BS3 4AG

Compiled By		Date
<i>Francesca Bennett</i>		19/02/25
Contract		Contract Ref:
<b>Muingmore WF</b>		<b>752151</b>

## FINAL ANALYTICAL TEST REPORT

**Envirolab Job Number:** 24/12124  
**Issue Number:** 1  
**Date:** 18 December, 2024

**Client:** Structural Soils Ltd (Tunbridge Wells)  
Bridge House  
North Farm Road  
Tunbridge Wells  
Kent  
TN2 3DR

**Project Manager:** Richard Ashby  
**Project Name:** Muingmore WF  
**Project Ref:** 752151  
**Order No:** N/A  
**Date Samples Received:** 13/12/24  
**Date Instructions Received:** 13/12/24  
**Date Analysis Completed:** 18/12/24

**Approved by:**



Richard Wong  
Client Manager

Envirolab Job Number: 24/12124

Client Project Name: Muingmore WF

Client Project Ref: 752151

Lab Sample ID	24/12124/1	24/12124/2	24/12124/3	24/12124/4	24/12124/5			Units	Limit of Detection	Method ref			
Client Sample No	1	1	2	1	2								
Client Sample ID	TP-01	TP-10	TP-12	TP-14	TP-24								
Depth to Top	0.6	1.5	1.0	1.0	1.0								
Depth To Bottom	1.2	2.0	1.5	1.5	1.4								
Date Sampled													
Sample Type	SOIL - B	SOIL - B	SOIL - D	SOIL - B	SOIL - D								
Sample Matrix Code	6AE	6AE	6AE	6AE	6AE								
% Stones >10mm <sub>A</sub>	<0.1	<0.1	<0.1	<0.1	<0.1						% w/w	0.1	A-T-044
Sulphate (acid soluble) <sub>B</sub> <sup>MS#</sup>	1100	1900	2000	1900	1800						mg/kg	200	A-T-028s

## Report Notes

### General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

### Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

### Asbestos

**Identification:** Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

**Quantification:** Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

**PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.**

### Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

**Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.**

### Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

### TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

### EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

### Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

## Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU  
Tel. 0161 368 4921 email. ask@envlab.co.uk

**Client:** Structural Soils Ltd (Tunbridge Wells), Bridge House, North Farm Road,  
Tunbridge Wells, Kent, TN2 3DR

**Project No:** 24/12124  
**Date Received:** 13/12/2024 (am)  
**Cool Box Temperatures (°C):** 9.5

**Project:** Muingmore WF  
**Clients Project No:** 752151

Lab Sample ID	24/12124/1	24/12124/2	24/12124/3	24/12124/4	24/12124/5
Client Sample No	1	1	2	1	2
Client Sample ID/Depth	TP-01 0.6-1.2m	TP-10 1.5-2.0m	TP-12 1.0-1.5m	TP-14 1.0-1.5m	TP-24 1.0-1.4m
Date Sampled					
Deviation Code					
E (no date)	✓	✓	✓	✓	✓

**Key**  
E (no date) *No sampling date provided (all results affected if not provided)*

*Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples 5 ± 3°C), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.*

## Envirolab Analysis Dates

Lab Sample ID	24/12124/1	24/12124/2	24/12124/3	24/12124/4	24/12124/5
Client Sample No	1	1	2	1	2
Client Sample ID/Depth	TP-01 0.6-1.2m	TP-10 1.5-2.0m	TP-12 1.0-1.5m	TP-14 1.0-1.5m	TP-24 1.0-1.4m
Date Sampled					
A-T-028s	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024
A-T-044	16/12/2024	16/12/2024	16/12/2024	16/12/2024	16/12/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

**End of Report**

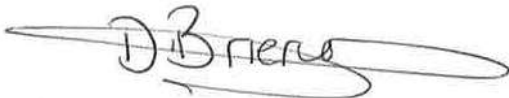
## FINAL ANALYTICAL TEST REPORT

**Envirolab Job Number:** 25/00517  
**Issue Number:** 1  
**Date:** 28 January, 2025

**Client:** Structural Soils Limited (Bristol Lab)  
Unit 1a  
Princess Street  
Bedminster  
Bristol  
UK  
BS3 4AG

**Project Manager:** Bristolchem/Elizabeth Hort  
**Project Name:** Muingmore WF Soil Sch 2  
**Project Ref:** 752151  
**Order No:** N/A  
**Date Samples Received:** 23/01/25  
**Date Instructions Received:** 23/01/25  
**Date Analysis Completed:** 28/01/25

**Approved by:**



Danielle Brierley  
Client Services Supervisor

Envirolab Job Number: 25/00517

Client Project Name: Muingmore WF Soil Sch 2

Client Project Ref: 752151

Lab Sample ID	25/00517/1	25/00517/2						Units	Limit of Detection	Method ref
Client Sample No	3	3								
Client Sample ID	TP-01	TP-24								
Depth to Top	2.00	2.50								
Depth To Bottom	2.50	3.00								
Date Sampled										
Sample Type	SOIL - B	SOIL - B								
Sample Matrix Code	4A	4A								
% Stones >10mm <sub>A</sub>	<0.1	5.8					% w/w			
Sulphate BRE (acid sol) <sub>D</sub> <sup>M#</sup>	<0.02	<0.02					% w/w	0.02	A-T-028s	

## Report Notes

### General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

### Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

### Asbestos

**Identification:** Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

**Quantification:** Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

**PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.**

### Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

**Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.**

### Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

### TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

### EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

### Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

## Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU  
 Tel. 0161 368 4921 email. ask@envlab.co.uk

**Client:** Structural Soils Limited (Bristol Lab), Unit 1a, Princess Street, Bedminster,  
 Bristol, UK, BS3 4AG

**Project No:** 25/00517  
**Date Received:** 23/01/2025 (am)

**Project:** Muingmore WF Soil Sch 2  
**Clients Project No:** 752151

**Cool Box Temperatures (°C):** 7.2

<b>Lab Sample ID</b>	25/00517/1	25/00517/2
<b>Client Sample No</b>	3	3
<b>Client Sample ID/Depth</b>	TP-01 2.00-2.50m	TP-24 2.50-3.00m
<b>Date Sampled</b>		
<b>Deviation Code</b>		
E (no date)	✓	✓

*Key*  
*E (no date) No sampling date provided (all results affected if not provided)*

*If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.*

## Envirolab Analysis Dates

Lab Sample ID	25/00517/1	25/00517/2
Client Sample No	3	3
Client Sample ID/Depth	TP-01 2.00-2.50m	TP-24 2.50-3.00m
Date Sampled		
A-T-028s	28/01/2025	28/01/2025
A-T-044	28/01/2025	28/01/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

**End of Report**

# LIMS Abortive Test Notice

ATN Reference 752151\_001

---

Project ID 752151 - Muingmore WF

---

Schedule ID

---

Schedule ID (Manual) 1

---

Schedule issued 29/11/2024

---

## Sample ATN relates to

Sample TP-15\_3.50m\_D\_4

---

## Reason for Notice

Reason Insufficient material for testing

---

Lab comments / sample requirements Sample weighs 600g. Not enough for PSD and 4 Point AL/WC due to coarse gravel present. Can do either a non-standard PSD or Atterberg but not both tests.

---

Primary test creating ATN Particle size distribution - sieving (PSD)

---

Other tests scheduled on sample

Test Name
Water content (SWC)
Determination of liquid limit and plastic limit (AL.)

---

Photo (optional)

*No data*

---


Proj Manager

*No users*

Proj Engineer

*No users*

Send Additional Notifications to

 Valeria Chacin-Mijova

Response options:

- 1) Alternative Sample
- 2) Alternative Test
- 3) Non-standard Test (see lab comment for suitability)
- 4) Dismiss/Cancel ALL Tests
- 5) Dismiss/Cancel SPECIFIED Tests
- 6) Combine Samples
  
- 7) Query (from Client/Engineer)
- 8) Sample Found

Please select as appropriate.

Alternative Sample

---

Alternative Test

---

Additional alternative tests

---

Engineer Comments /  
Requirements

---

Photo (optional)

No data

---

# LIMS Abortive Test Notice

ATN Reference	752151_002
Project ID	752151 - Muingmore WF
Schedule ID	
Schedule ID (Manual)	1
Schedule issued	05/12/2024

## Sample ATN relates to

Exploratory Position ID	TP-14
Sample Top	1.00
Sample Base	1.5
Sample Ref	1
Other Ref	B


## Reason for Notice

Reason	Unsuitable for Testing
Lab comments / sample requirements	Sample is organic matter
Primary test creating ATN	Particle size distribution - sieving (PSD)
Other tests scheduled on sample	

Photo (optional)

*No data*

Proj Manager

 Valeria Chacin-Mijova

Proj Engineer

*No users*

Send Additional Notifications to

*No users*

Response options:

- 1) Alternative Sample
- 2) Alternative Test
- 3) Non-standard Test (see lab comment for suitability)
- 4) Dismiss/Cancel ALL Tests
- 5) Dismiss/Cancel SPECIFIED Tests
- 6) Combine Samples
- 7) Query (from Client/Engineer)

## 8) Sample Found

Please select as appropriate.

Alternative Sample

---

Alternative Test

---

Additional alternative tests

---

Engineer Comments /  
Requirements

---

Photo (optional)

No data

---

# **Appendix 4 Photographs (Trial Pits)**

# Irish Drilling Ltd: Trial Pit Photos:



Figure 1 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 01(1).JPG



Figure 3 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 02(1).JPG



Figure 2 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 01(2).JPG



Figure 4 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 02(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 5 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 03(1).JPG



Figure 7 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 04(1).JPG



Figure 6 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 03(2).JPG



Figure 8 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 04(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 9 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 05(1).JPG



Figure 11 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 06(1).JPG



Figure 10 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 05(2).JPG



Figure 12 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 06(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 13 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 07(1).JPG



Figure 15 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 08(1).JPG



Figure 14 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 07(2).JPG



Figure 16 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 08(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 17 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 09(1).JPG



Figure 19 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 10(1).JPG



Figure 18 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 09(2).JPG



Figure 20 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 10(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 21 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 11(1).JPG



Figure 23 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 12(1).JPG



Figure 22 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 11(2).JPG



Figure 24 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 12(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 25 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 13(1).JPG

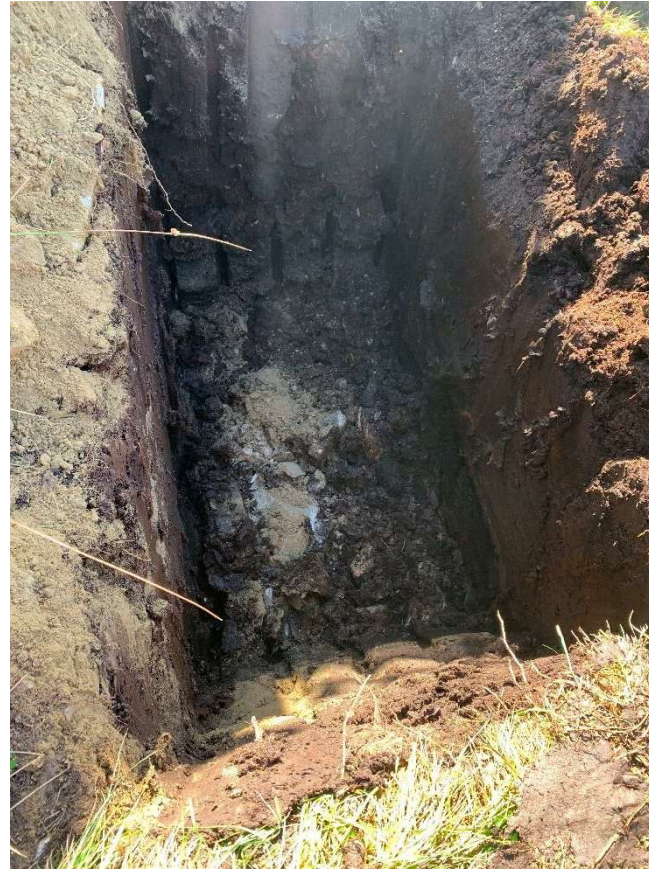


Figure 27 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 14(1).JPG



Figure 26 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 13(2).JPG



Figure 28 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 14(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 29 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 15(1).JPG



Figure 31 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 16(1).JPG



Figure 30 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 15(2).JPG



Figure 32 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 16(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 33 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 17(1).JPG



Figure 35 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 18(1).JPG



Figure 34 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 17(2).JPG



Figure 36 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 18(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 37 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 19(1).JPG



Figure 39 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 20(1).JPG



Figure 38 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 19(2).JPG



Figure 40 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 20(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 41 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 21(1).JPG



Figure 43 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 22(1).JPG



Figure 42 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 21(2).JPG



Figure 44 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 22(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 45 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 23(1).JPG



Figure 47 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 24(1).JPG



Figure 46 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 23(2).JPG



Figure 48 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 24(2).JPG

# Irish Drilling Ltd: Trial Pit Photos:



Figure 49 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 25(1).jpg



Figure 51 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 26(1).jpg



Figure 50 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 25(2).jpg



Figure 52 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 26(2).jpg



Figure 53 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 28(1).jpg



Figure 55 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 29(1).jpg



Figure 54 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 28(2).jpg



Figure 56 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 29(2).jpg

# Irish Drilling Ltd: Trial Pit Photos:



Figure 57 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 30(1).jpg

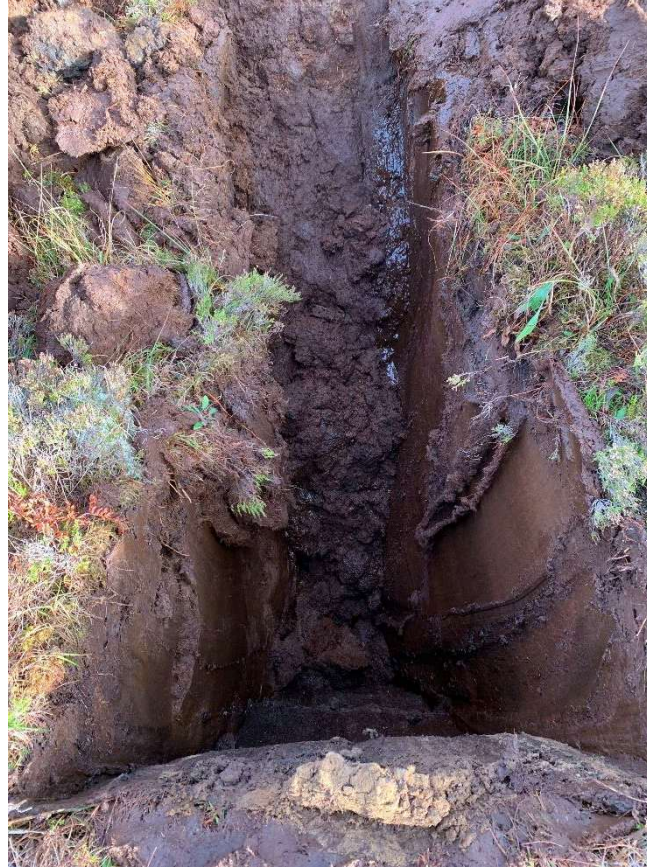


Figure 59 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 31(1).jpg



Figure 58 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 30(2).jpg



Figure 60 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 31(2).jpg

# Irish Drilling Ltd: Trial Pit Photos:



Figure 61 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 32(1).JPG



Figure 63 H:\2024\24MO117\_Muingmore WF\TP Photos\TP CC(1).jpg



Figure 62 H:\2024\24MO117\_Muingmore WF\TP Photos\TP 32(2).JPG



Figure 64 H:\2024\24MO117\_Muingmore WF\TP Photos\TP CC(2).jpg

# **Appendix 5 Photographs (Rotary Core)**

# Irish Drilling Ltd: Core Photos:



# Irish Drilling Ltd: Core Photos:



# Irish Drilling Ltd: Core Photos:



# Irish Drilling Ltd: Core Photos:



# Irish Drilling Ltd: Core Photos:



# Irish Drilling Ltd: Core Photos:



# Irish Drilling Ltd: Core Photos:



# Irish Drilling Ltd: Core Photos:



# Irish Drilling Ltd: Core Photos:

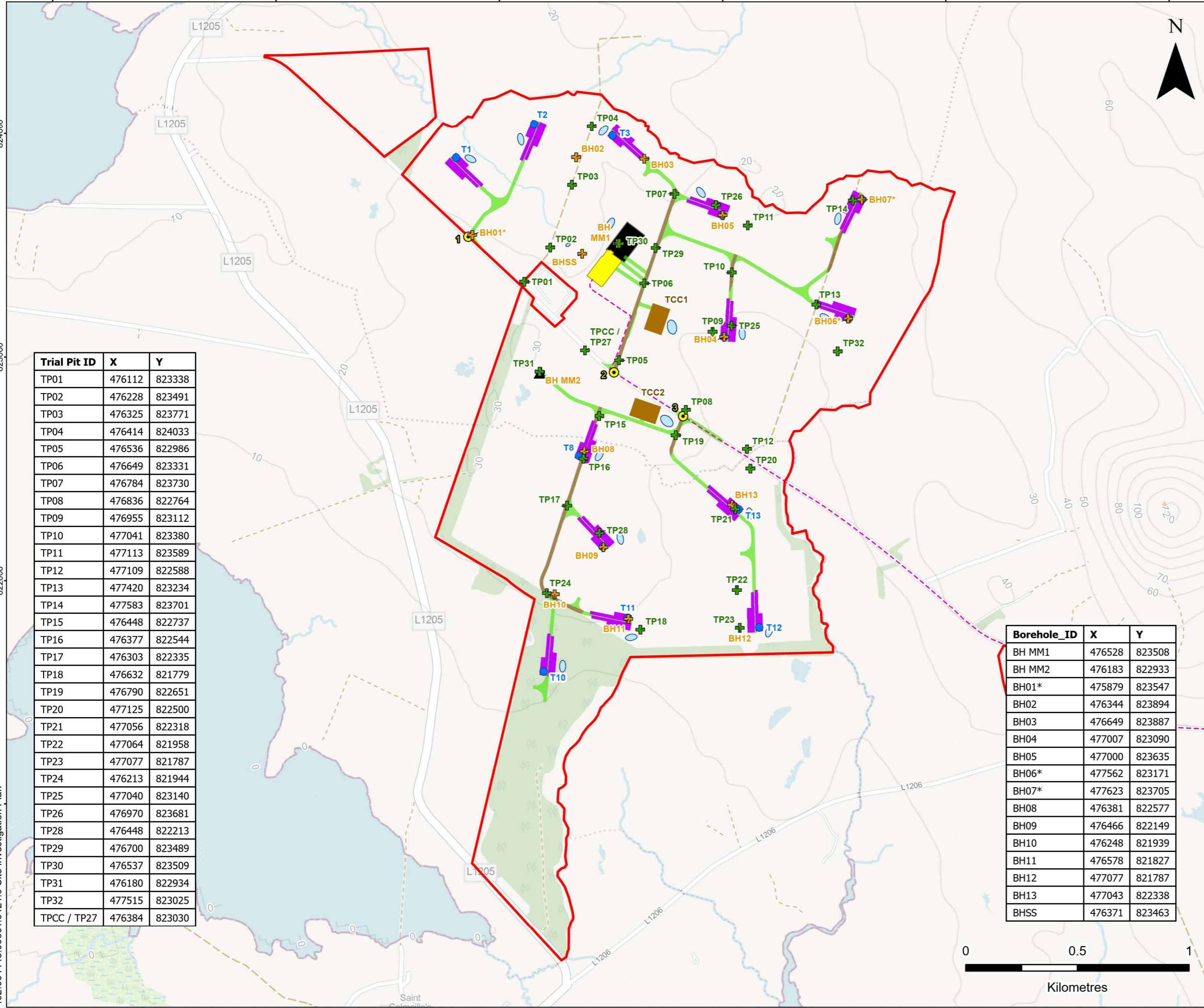


# Appendix 6 Site Plan

474000 475000 476000 477000 478000 479000

824000 823000 822000

402.064443.00001.0121.0 Site Investigation Plan



Trial Pit ID	X	Y
TP01	476112	823338
TP02	476228	823491
TP03	476325	823771
TP04	476414	824033
TP05	476536	822986
TP06	476649	823331
TP07	476784	823730
TP08	476836	822764
TP09	476955	823112
TP10	477041	823380
TP11	477113	823589
TP12	477109	822588
TP13	477420	823234
TP14	477583	823701
TP15	476448	822737
TP16	476377	822544
TP17	476303	822335
TP18	476632	821779
TP19	476790	822651
TP20	477125	822500
TP21	477056	822318
TP22	477064	821958
TP23	477077	821787
TP24	476213	821944
TP25	477040	823140
TP26	476970	823681
TP28	476448	822213
TP29	476700	823489
TP30	476537	823509
TP31	476180	822934
TP32	477515	823025
TPCC / TP27	476384	823030

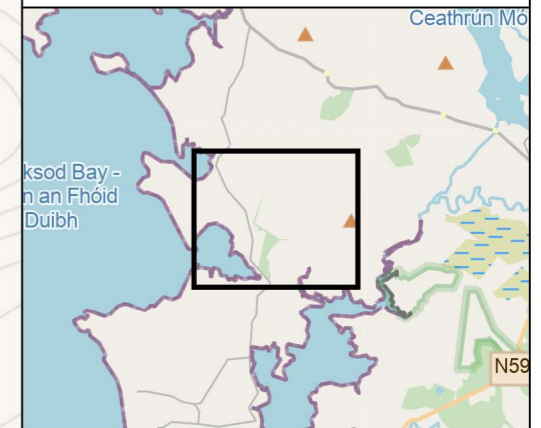
Borehole_ID	X	Y
BH MM1	476528	823508
BH MM2	476183	822933
BH01*	475879	823547
BH02	476344	823894
BH03	476649	823887
BH04	477007	823090
BH05	477000	823635
BH06*	477562	823171
BH07*	477623	823705
BH08	476381	822577
BH09	476466	822149
BH10	476248	821939
BH11	476578	821827
BH12	477077	821787
BH13	477043	822338
BHSS	476371	823463

**LEGEND**

- Proposed Development Site Boundary
- Proposed Turbine Location
- Proposed Site Access Location
- ▲ Proposed Met Mast Location
- Proposed New Access Track
- Proposed Upgraded Access Track
- Proposed Grid Connection Route (Subject to Separate Planning Application)
- Proposed Crane Pad
- Proposed Substation
- Battery Energy Storage System (BESS) Compound
- Proposed Temporary Construction Compound (TCC)
- Proposed Attenuation Basin
- + Borehole Design Location
- + Phase 2 Trial Pit Location

**Note**

- \* - Groundwater Monitoring Well




**MUINGMORE WINDFARM**

**SITE INVESTIGATION PLAN**

**PHASE 2 SITE INVESTIGATION**

**FIGURE 1**

Scale 1:16,250 @ A3	Date MARCH 2026
---------------------	-----------------



# Appendix 7 Digital Data