LYONS CMC
COAL MINING & GEOTECHNICAL CONSULTANCY
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Date: 9th July 2025
Your ref: (HD8 8RP)
My Ref: GVR 00324

Dear Sirs,

GROUTING VALIDATION REPORT – FOLLOWING THE DRILLING AND GROUTING TREAMENT OF SHALLOW MINE WORKINGS FOR PROPOSED DEVELOPMENT AT LAND AT THE DALE INN, 408 WAKEFIELD ROAD, DENBY DALE, HUDDERSFIELD HD8 8RP

I am pleased to supply the following validation report for the above project and trust that this satisfies your requirements. Please do not hesitate to contact myself at any time for further clarification or advice.

Yours Sincerely,

M. Lyons
Consultant Mining Engineer
BSci CSci MIMMM

THIS REPORT IS BASED ON AND LIMITED TO THE INFORMATION IN MY RECORD AT THE TIME THE ENQUIRY IS ANSWERED. It is based on my professional opinion in line with the guidelines set out in CIRIA C758D - "Abandoned mine workings manual". Copyright in this report belongs to M.A.Lyons. All rights are reserved and unauthorised use is prohibited. Copyright is not transferred to external parties by possession of this report, however, those for whom the report is compiled have the right to use it. If any unauthorised third party comes into possession of this report, they rely upon it entirely at their own risk and the author does not owe them any Duty of Care or Skill.

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1. INTRODUCTION

Lyons CMC has been commissioned by Spurr Geotechnical Ltd, on behalf of Patrick Haigh (the client) to act as the supervising geotechnical engineer to monitor, check and validate the stabilisation treatment works of shallow coal mining which has previously been identified at this site. It is understood that planning approval (Ref 2023/62/92462/E) has been granted by Kirklees Council which includes the erection of retail unit with first floor flat with external access stair. Spurr Geotechnical were requested by the client to drill and grout the single plot on the site, as shown on Drilling & Grouting Plan No 00324.3 in Appendix 4.1 of this report. The works were undertaken under the Terms and Conditions of a Coal Authority Permit, No. 29707, a copy of which is presented in Appendix 4.6 of this report. This report presents the information associated with stabilisation works carried out on the above referenced development. This completion report has been prepared for the sole use of Spurr Geotechnical Ltd and Patrick Haigh (client). No other third party may rely upon or reproduce the contents of this report without the written approval of Lyons CMC. If any unauthorised third party comes into possession of this report, they rely on it entirely at their own risk and the authors do not owe them any Duty of Care or Skill.

1.1 SITE DESCRIPTION

The site comprises a small area of driveway / hardstanding storage area with no element of fauna present. As such no evidence of any invasive species such as Japanese Knotweed were noted during the site walkover. The site is situated within a residential area with a highway directly to both the front and rear. Spurr Geotechnical addressed the aspect of service/utility avoidance as part of their sub-contract agreement with the client.

1.2 PREVIOUS PHASE 1 INVESTIGATION

Lyons CMC provided the client with a Coal Mining Risk Assessment for the site ref: CMRA 00324 dated 5th September 2023. The conclusion within this report from the shallow coal mining aspect was as follows:

> *Given the **Shallow Coal Mining** position combined with nature/scale of proposed development, a limited intrusive mining investigation should be undertaken to check the nature of the Whinmoor coal seam. Three water-flush boreholes to 20m below rock-head/foundation level would suffice for this in the outset, located around the proposed footprint of development (note: the process guide outlined in Appendix 2). A permit from the Coal Authority should be secured prior to such an investigation. If any mining voids are encountered then further stabilisation works and/or appropriate foundation designs would need to be considered.*

2. DRILLING & GROUTING WORKS

2.1 PREVIOUS PHASE 2 INVESTIGATION FINDINGS

Subsequent to the CMRA and progressing through the planning procedure, the client sub-contracted Cape Site Services, along with Lyons CMC as supervising senior engineer, to oversee the intrusive investigation of possible mine workings as identified within the CMRA. Cape undertook those works on the 14th August 2024 (under MRA Permit 28682), where shallow coal workings were proved in the three boreholes advised for – comprising a 1.3m section of worked strata at circa 8.2m deep. Lyons CMC provided a follow up report for the investigation ref: SI 00324 dated 29th August 2024; whereby the conclusions for the shallow mining aspect were as follows:

> *Given best practice guidance for development above abandoned mine workings (CIRIA C758D) it is clear that a stability issue is present for this site by way of the shallow coal workings in what appears to be the Whinmoor coal seam at this location.* ***Note: informatives 1 & 2 in appendix 5.6.*** *Remediation strategies for safe development given the findings are likely to consist of one or a combination of the following:*
>
> a. *Drilling and grouting the shallow voids – for example on a 3m x 3m grid across and just outside of the proposed development footprint; a 1.5m spaced grout curtain down-dip will be an option, although the seam appears to be quite level so this may not be required;*
>
> b. *Piled foundations with ring beam – piles could be sited in the firm ground beneath the workings at a depth of around 11m or so (depending on the advice of the appointed piling contractor). Pile designs that maintain the integrity of the sandstone above the workings would be beneficial.*
>
> c. *Strengthened foundations, strip or raft - to span and cantilever a 3m soft spot for example.*
>
> *It is recommended that this information is presented to a suitably qualified structural engineer in order to arrive at an approved foundation solution - with prior Coal Authority and Local Authority agreement of such.*

Following discussions with the relevant authorities, the client opted for a drilling and grouting procedure and Spurr Geotechnical were appointed as sub-contractor for those works.

2.2 DRILLING & GROUTING SPECIFICATION

The details for the grout treatment of the mine workings (referenced 'Drilling & Grouting Plan) was prepared by Lyons CMC along with scheme of works proposal report ref: D&G 00324 dated 17th March 2025. A copy of this document was submitted to the Coal Authority,

as part of the application for the Permit for the works. Lyons CMC provided part-time supervision on site to ensure that the works were carried out in accordance with the above document.

2.3 PROGRAMME

The drilling of the boreholes for grouting purposes were carried out between 23rd April and 25th April 2025, as a continuous operation.

Grouting of the boreholes was carried out between 28th April and 29th April 2025, again as a continuous operation.

The validation test boreholes, refer to Section 3.0 below, were drilled on the 30th April 2025.

2.4 DRILLING PROCEDURE

In the area of possible fractured ground, the boreholes were drilled using an open rotary percussive drilling rig (a Hutte 502 rotary rig) with water flush, in accordance with the Specification and Coal Authority Permit No 29707. The treatment works were undertaken by Spurr Geotechnical Ltd, under a domestic sub-contract with the client. On completion of the drilling of each borehole a temporary sacrificial plastic casing was installed to stabilise the hole, prior to undertaking the grouting. Throughout the treatment area, boreholes/grout injection points were drilled in accordance with the layout as shown on Drilling & Grouting Plan No. 00324.3, presented in Appendix 4.1 of this report. The original primary off-set 2m to 3m drilling grid comprised boreholes, which were to ensure that treatment covered the extent of the footprint of this plot to as much as possible beneath the land owned by the client. As holes could not extend to beyond the boundary of the clients, intermediate ('I') grout holes were undertaken. A total of 30 boreholes were drilled as part of the works. Each hole was drilled to 11m below ground level (bgl), i.e a minimum of at least 1 m below the depth of voided/fractured/soft ground identified in the previous investigation. The ground conditions encountered in each borehole are detailed within daily drill log sheets, included in Appendix 4.3 of this report and summarised below.

2.5 GROUND CONDITIONS ENCOUNTERED

The previous intrusive investigation work encountered natural boulder clay (beneath made ground) at around 1.3 m bgl, with evidence of shallow mining (assumed to be the Whinmoor Coal seam horizon) encountered when flush returns were totally lost, in very soft/voided workings, at depths of between 8.2m and 9.7m bgl. The treatment boreholes encountered a sequence of ground conditions (as recorded by the driller), as follows:

• Casing was installed during the drilling, in all of the boreholes to a depth of 1.0m bgl; the driller then records a sequence of clay/sandstone/limestone over the seam horizon the full sequence of the holes.

• Flush was lost in all holes except for BH2 which proved a section of intact coal from 8.2m to 8.5m (anticipated to be the top part of the Whinmoor coal seam) followed by soft drilling to 9.5m (anticipated as 'stowed' old workings).

• All the remaining holes proved very soft/voided sections between 8.2m to 9.5m indicating possibly very loosely filled/stowed mine-workings.

No evidence of any deep soft ground or broken ground associated with any likely mine entries was recorded in any of the treatment boreholes.

2.6 GROUTING PROCEDURE

Boreholes were injected with grout comprising a 10:1 ratio mixture of PFA and Ordinary Portland Cement (OPC) respectively with 50 to 55% water.

Grout was injected under hydrostatic head into all boreholes using a tremie pipe and a two inch (50mm) diameter diaphragm pump operating at around 100psi (6.9 bar), until grout appeared at the surface. Grout takes for all treatment boreholes are presented within the Spurr Geotechnical Ltd logs of April 2025, as outlined in Appendix 4.4 and summarized on the Grout Take Plan No. 00324.4 presented in Appendix 4.2 of this report.

A total of approximately 15 tonnes of grout was injected into the drilled boreholes.

3. VALIDATION

In order to ensure the grout uptake was correct, two test boreholes were re-drilled, following-on from the grouting process. These holes, which are shown on Drilling & Grouting Plan No. 00324.3, were located in close proximity to the areas which recorded relatively high grout takes. Lyons CMC were present on site for the drilling of these test holes and observed firm drilling, with grout returns to surface, over the approximate depth range of the previous takes. The contractor backfilled these test holes and pumped grout slightly above hydrostatic head. It was noted by observing a pressure gauge attached to the temporary drill casing, at surface, that the pressure above hydrostatic did not bleed away, indicating that no further take of grout was possible at the locations tested

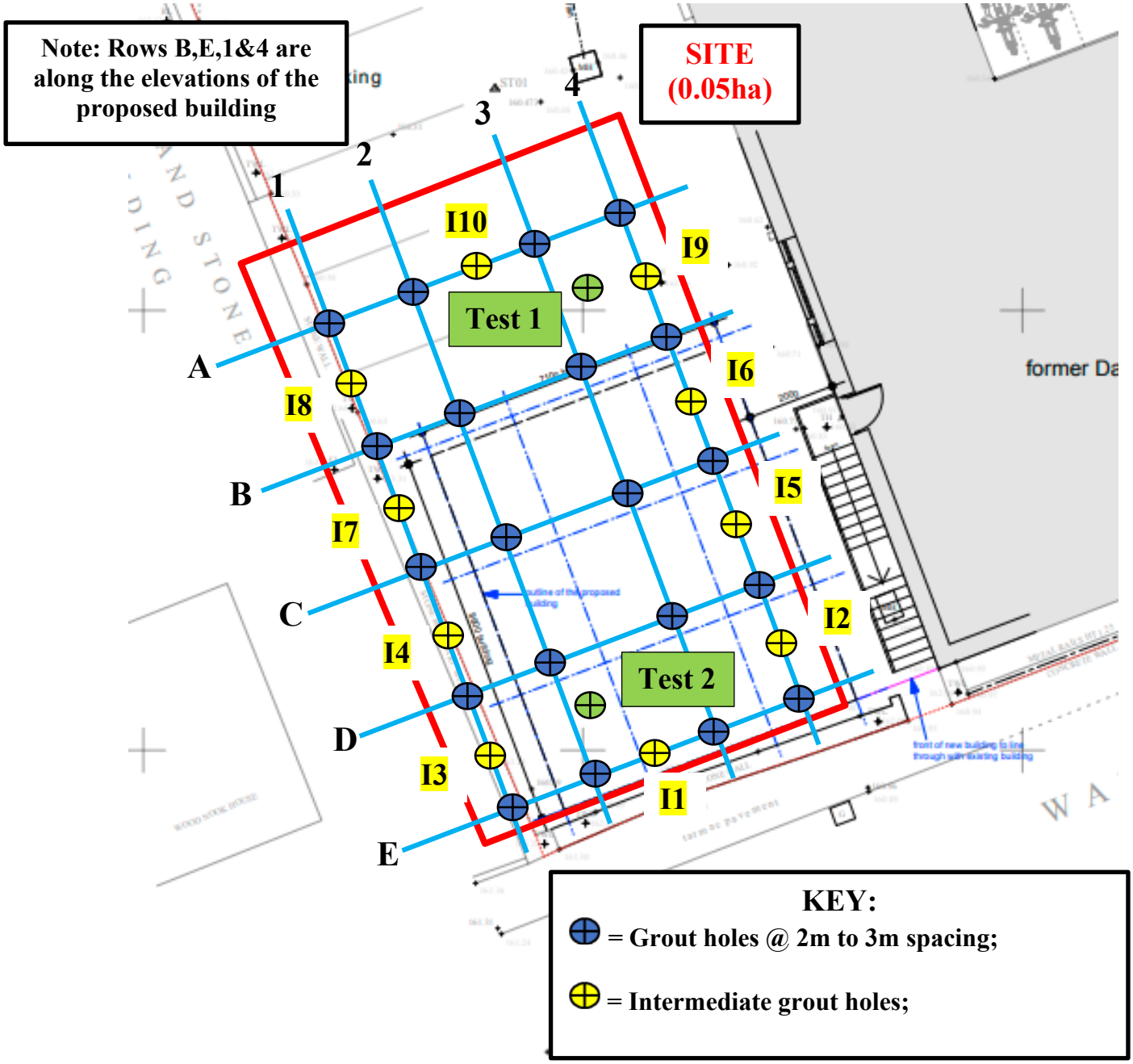
In order to determine the compressive strength of infill grout, 3No. test cubes were formed on site, and subject to testing by SOCOTEC UK, a UKAS accredited laboratory. Grout cubes were scheduled to be crushed in accordance with BS 12390-3: 2009.

The results of testing are presented in Appendix 4.5 of this report which indicates a 14 day cube strength of 1.8 N/mm2 has been achieved, above the required 1.0 N/mm2 specified for general treatment of boreholes. The cube strength is therefore likely to exceed this further for the remaining 28 day test and spare test. As such, we are satisfied that the site has been rendered safe and stable for the approved scheme of development.

4 APPENDIX

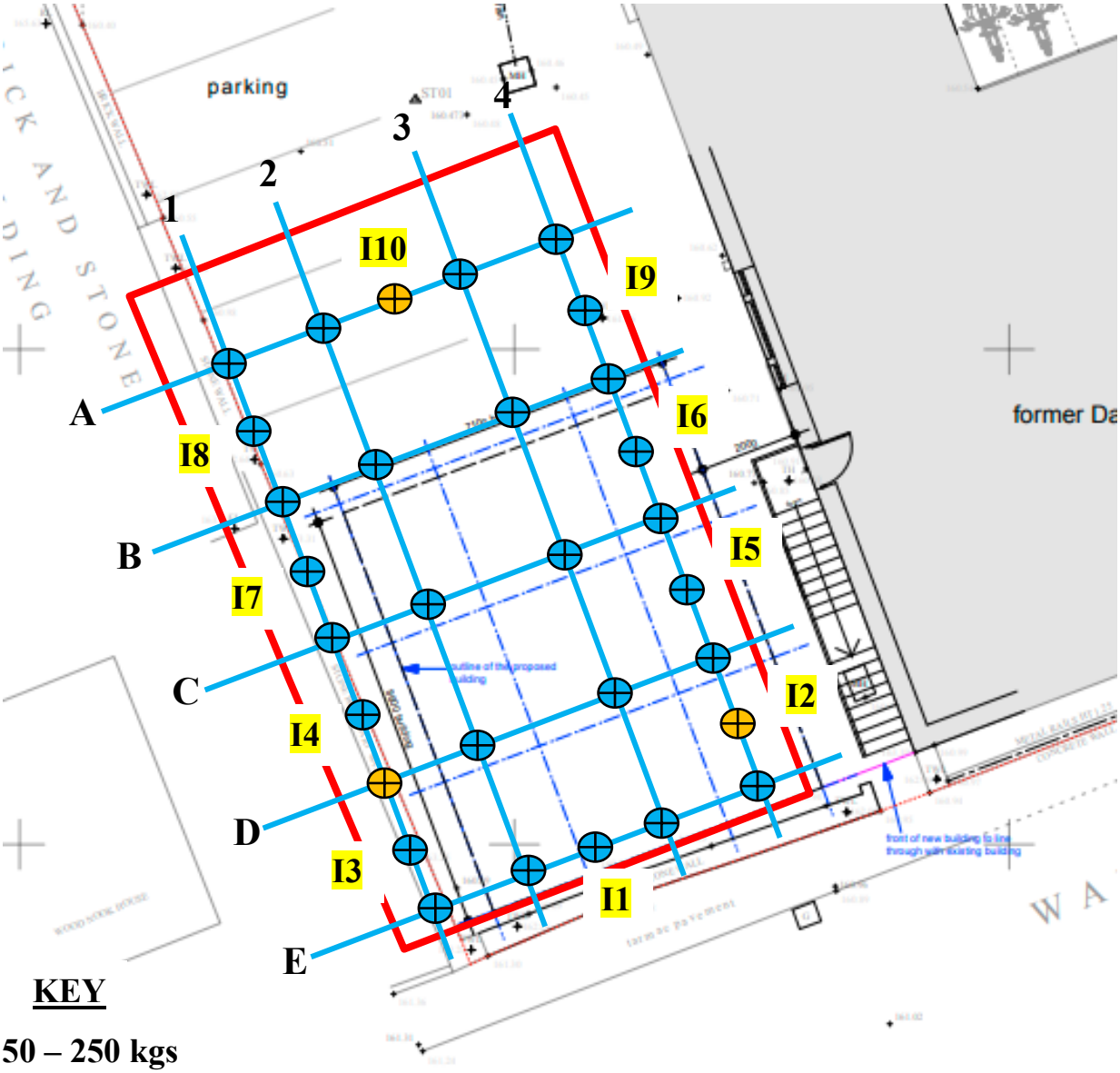
4.1 DRILLING & GROUTING PLAN NO. 00324.3

SITE CENTRED AT NGR: 422681E / 408485N (NTS)



4.2 GROUT TAKE PLAN NO. 00324.4

SITE CENTRED AT NGR: 422681E / 408485N (NTS)



KEY

- ⊕ 50 – 250 kgs
- ⊕ 250 – 5000 kgs
- ⊕ ➢ 5000 kgs

4.3 DRILLING RECORDS

DAILY BOREHOLE LOG

SPURR Geotechnical Ltd			Contract		Dale Inn Denby Dale	Date	23.04.25
			Client		Dale Inn Developments	Job No	DG2033

HOLE No	FROM	TO	FUSH W/A/M	CASING T/S (M)	STRATA DESCRIPTION	RIG TYPE Hutte502-2	
A1	0	1			Cased	Crew	
	1	2.7			Clay / Sandstone /limestone	SS	
	2.7	8.2			Sandstone	HJ	
	8.2	8.5			Broken ground lost flush		
	8.5	9.5			Soft		
	9.5	11			Firm drilling		
						Weather	
A2	0	1			Cased		
	1	2.7			Clay / Sandstone /limestone		
	2.7	8.2			Sandstone	Remarks	
	8.2	8.5			Broken ground lost flush		
	8.5	9.5			Soft		
	9.5	11			Firm drilling		
A3	0	1			Cased		
	1	2.7			Clay / Sandstone /limestone		
	2.7	8.2			Sandstone		
	8.2	8.5			Broken ground lost flush		
	8.5	9.5			Soft		
	9.5	11			Firm drilling	Borehole Total	
						Today	7
A4	0	1			Cased		
	1	2.7			Clay / Sandstone /limestone	Previous	0
	2.7	8.2			Sandstone		
	8.2	8.5			Broken ground lost flush	To Date	7
	8.5	9.5			Soft		
	9.5	11			Firm drilling	Drilled Total	
						Today	77
I1	0	1			Cased		
	1	2.7			Clay / Sandstone /limestone	Previous	0
	2.7	8.2			Sandstone		
	8.2	8.5			Broken ground lost flush	To Date	77
	8.5	9.5			Soft		
	9.5	11			Firm drilling	Casing Total	
						Today	7
I2	0	1			Cased		
	1	2.7			Clay / Sandstone /limestone	Previous	0
	2.7	8.2			Sandstone		
	8.2	8.5			Broken ground lost flush	To Date	7
	8.5	9.5			Soft		
	9.5	11			Firm drilling	Signed By SGL Rep	
B4	0	1			Cased		
	1	2.7			Clay / Sandstone /limestone		
	2.7	8.2			Sandstone		
	8.2	8.5			Broken ground lost flush	Signed By Client	
	8.5	9.5			Soft		
	9.5	11			Firm drilling		

DAILY BOREHOLE LOG

SPURR Geotechnical LTD			Contract		Dale Inn Denby Dale	Date	24.04.25
			Client		Dale Inn Developments	Job No	DG2033

HOLE No	FROM	TO	FUSH W/A/M	CASING T/S (M)	STRATA DESCRIPTION
I3	0	1			Cased
	1	2.7			Clay / Sandstone /limestone
	2.7	8.2			Sandstone
	8.2	8.5			Broken ground lost flush
	8.5	9.5			Soft
	9.5	11			Firm drilling
B1	0	1			Cased
	1	2.7			Clay / Sandstone /limestone
	2.7	8.2			Sandstone
	8.2	8.5			Broken ground lost flush
	8.5	9.5			Soft
	9.5	11			Firm drilling
B2	0	1			Cased
	1	2.7			Clay / Sandstone /limestone
	2.7	8.2			Sandstone
	8.2	8.7			Coal
	8.7	9.5			Soft
	9.5	11			Firm drilling
B3	0	1			Cased
	1	2.7			Clay / Sandstone /limestone
	2.7	8.2			Sandstone
	8.2	8.5			Broken ground lost flush
	8.5	9.5			Soft
	9.5	11			Firm drilling
I5	0	1			Cased
	1	2.7			Clay / Sandstone /limestone
	2.7	8.2			Sandstone
	8.2	8.5			Broken ground lost flush
	8.5	9.5			Soft
	9.5	11			Firm drilling
I4	0	1			Cased
	1	2.7			Clay / Sandstone /limestone
	2.7	8.2			Sandstone
	8.2	8.5			Broken ground lost flush
	8.5	9.5			Soft
	9.5	11			Firm drilling
C4	0	1			Cased
	1	2.7			Clay / Sandstone /limestone
	2.7	8.2			Sandstone
	8.2	8.5			Broken ground lost flush
	8.5	9.5			Soft
	9.5	11			Firm drilling

RIG TYPE Hutte502-2

Crew

SS

HJ

Weather

Remarks

Borehole Total	
Today	7
Previous	7
To Date	14
Drilled Total	
Today	77
Previous	77
To Date	154
Casing Total	
Today	7
Previous	7
To Date	14

Signed By SGL Rep

Signed By Client

DAILY BOREHOLE LOG

SPURR Geotechnical LTD			Contract		Dale Inn Denby Dale	Date	24.04.25
			Client		Dale Inn Developments	Job No	DG2033

HOLE No	FROM	TO	FUSH W/A/M	CASING T/S (M)	STRATA DESCRIPTION
I6	0	1			Cased
	1	2.7			Clay / Sandstone /limestone
	2.7	8.2			Sandstone
	8.2	8.5			Broken ground lost flush
	8.5	9.5			Soft
	9.5	11			Firm drilling 10% flush retured
D4	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling
I8	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling
E4	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling 10% flush retured

RIG TYPE Hutte502-2

Crew

SS

HJ

Weather

Remarks

Borehole Total

Today	4
Previous	14
To Date	18

Drilled Total

Today	44
Previous	154
To Date	198

Casing Total

Today	4
Previous	14
To Date	18

Signed By SGL Rep

Signed By Client

DAILY BOREHOLE LOG

SPURR Geotechnical LTD					Contract	Dale Inn Denby Dale	Date 25.04.25
					Client	Dale Inn Developments	Job No DG2033

HOLE No	FROM	TO	FUSH W/A/M	CASING T/S (M)	STRATA DESCRIPTION
E3	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling 10% flush retured
I9	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling 10% flush retured
E2	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling 10% flush retured
E1	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling
I10	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling
D1	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Sandstone
	2.7	8.5			Broken ground lost flush
	8.5	9.5			Soft
	9.5	11			Firm drilling
D2	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling 10% flush retured

RIG TYPE Hutte502-2	
Crew	
Weather	
Remarks	
Borehole Total	
Today	7
Previous	18
To Date	25
Drilled Total	
Today	77
Previous	198
To Date	275
Casing Total	
Today	7
Previous	18
To Date	25
Signed By SGL Rep	
Signed By Client	

DAILY BOREHOLE LOG

SPURR Geotechnical LTD			Contract		Dale Inn Denby Dale	Date	24.04.25
			Client		Dale Inn Developments	Job No	DG2033

HOLE No	FROM	TO	FUSH W/A/M	CASING T/S (M)	STRATA DESCRIPTION
D3	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling
C3	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling
I7	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling
C2	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling
C4	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground lost flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling

RIG TYPE Hutte502-2

Crew

SS

HJ

Weather

Remarks

Borehole Total

Today	5
Previous	25
To Date	30

Drilled Total

Today	55
Previous	275
To Date	330

Casing Total

Today	5
Previous	25
To Date	30

Signed By SGL Rep

Signed By Client

DAILY BOREHOLE LOG

SPURR Geotechnical LTD			Contract		Dale Inn Denby Dale	Date	30.04.25
			Client		Dale Inn Developments	Job No	DG2033

HOLE No	FROM	TO	FUSH W/A/M	CASING T/S (M)	STRATA DESCRIPTION
Test 1	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground Grout colour flush
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			Firm drilling 50% flush
Test 2	0	1			Cased
	1	1.7			Clay / Sandstone /limestone
	1.7	2.7			Broken ground 20% flush with grout traces
	2.7	8.5			Firm drilling
	8.5	9.5			Soft
	9.5	11			50% Flush returned

RIG TYPE Hutte502-2

Crew
SS
HJ

Weather

Remarks

Borehole Total	
Today	2
Previous	330
To Date	332

Drilled Total	
Today	22
Previous	330
To Date	352

Casing Total	
Today	2
Previous	30
To Date	32

Signed By SGL Rep

Signed By Client

4.4 GROUTING RECORDS

SPURR GEOTECHNICAL LIMITED

DAILY GROUT RECORD

SITE	Dale Inn Denby Dale						DATE	28.04.25
BOREHOLE	STATUS	PFA	CEM	SAND	GRAVEL	GROUT	CREW	
A1	F	100	10			110	SS	
A2	F	100	10			110		
A3	F	100	10			110	HJ	
A4	F	100	10			110		
B1	F	100	10			110		
B2	F	100	10			110	CEMENT DELIVERIES (Kg)	
B3	F	100	10			110	DATE	28.04.25
B4	F	100	10			110	AMOUNT	1500
C1	F	100	10			110		
C2	F	100	10			110		
C3	F	100	10			110	PFA DELIVERIES (Kg)	
C4	F	100	10			110	DATE	28.04.25
D1	Not Ful	4500	450			4950	1st LOAD	20540
D2	F	100	10			110	2ND LOAD	
D3	F	100	10			110	3RD LOAD	
D4	F	100	10			110	4HT LOAD	
I1	F	100	10			110	5TH LOAD	
I2	Not Full	4500	450			4950	TODAYS Total (Kg)	
I3	F	100	10			110	PFA	20540
I4	F	100	10			110	CEMENT	1500
I5	F	100	10			110		
I6	F	100	10			110	TESTING	
I7	F	100	10			110	BLEED	
I8	F	100	10			110	2hr	1%
I9	F	100	10			110	4hr	3%
I10	F	1200	120			1320	6hr	4%
E1	F	100	10			110		
E2	F	100	10			110		
E3	F	100	10			110	FLOW	MM
E4	F	100	10			110	AM	370
						0	PM	
						0		
						0	COMMENTS	
						0	Boreholes D1 and I2	
						0	Grout coming to surface and dropping slowly 3No	
						0	Grout cubes taken	
						0		
						0	TOTAL PFA	TOTAL CEM
TODAYS TOTAL		12900	1290	0	0	14190	20540	1500
PREVIOUS TOTAL		0	0	0	0	0	0	0
RUNNING TOTAL		12900	1290	0	0	14190	20540	1500
						MATERIALS REMAINING ON SITE	6350	210

SPURR GEOTECHNICAL LIMITED

DAILY GROUT RECORD

SITE							DATE	29.04.25
BOREHOLE	STATUS	PFA	CEM	SAND	GRAVEL	GROUT	CREW	
D1	F	250	25			275	SS	
I2	F	250	25			275	HJ	
						0		
Test Hole 1	F	150	15			165		
Test Hole 2	F	200	20			220		
						0	CEMENT DELIVERIES (Kg)	
						0	DATE	
						0	AMOUNT	0
						0		
						0		
						0	PFA DELIVERIES (Kg)	
						0	DATE	
						0	1st LOAD	0
						0	2ND LOAD	
						0	3RD LOAD	
						0	4HT LOAD	
						0	5TH LOAD	
						0	TODAYS Total (Kg)	
						0	PFA	0
						0	CEMENT	
						0		
						0	TESTING	
						0	BLEED	
						0	2hr	1%
						0	4hr	3%
						0	6hr	4%
						0		
						0		
						0	FLOW	MM
						0	AM	370
						0	PM	410
						0		
						0	COMMENTS	
						0		
						0	TOTAL PFA	TOTAL CEM
TODAYS TOTAL		850	85	0	0	935	0	0
PREVIOUS TOTAL		12900	1290	0	0	14190	20540	1500
RUNNING TOTAL		13750	1375	0	0	15125	20540	1500
						MATERIALS REMAINING ON SITE	5415	125

4.5 GROUT CUBES RECORDS

SOCOTEC UK Limited
Unit E Broadheath Network Centre
Atlantic Street, Broadheath
Altrincham
WA14 5EW, United Kingdom
Telephone: 01925 286220

Concrete Test Report

TEST REPORT

UKAS TESTING 0001

Project Details		Report Details	
Client:	Spurr Geotechnical Linited	Report No.:	CONC:NOR25-04925-C0001
Client Address:	82 Ollerton Road	Report Date:	13/05/2025
	Retford	Issue No.:	1
	DN22 7TH	Recipients:	
Project:	P252577 - DALE INN		

Field Details and Results

Location in Works: DALE INN Mix: Data not supplied

Fresh Concrete Sampling performed by third party and not covered under this laboratory's accreditation

Sample ID: NOR25-04925-C0001 Client Sample ID: NOR035692

Compressive Strength of test specimens (100 mm Cube)

Making and initial curing of specimens for strength tests performed by third party and not covered under this laboratory's accreditation

Date Made: 29/04/2025 Date and Time Received: 02/05/2025 10:03

Laboratory Test Methods: BS EN 12390-7 - 2019, BS EN 12390-1 - 2021, BS EN 12390-3 - 2019

Specimen ID	Client ID	Age at Test (Days)	Test Date	Width/Depth/ Height (mm)	Density (kg/m³)	Failure Load (kN)	Compressive Strength (N/mm²)	Specified Strength (N/mm²)
006382\A	29.04.25 A	14	13/05/2025	100/100/100	1300	18.2	1.8	
006382\B	29.04.25 B	28	27/05/2025	–	–	–	–	
006382\C	29.04.25 C	Spare/56	24/06/2025					

Notes

The following apply unless otherwise stated in specimen notes:

Laboratory curing tank temperature range (°C): 18 to 22.
Specimen appearance as received satisfactory.
Specimens transported within 16 hours of making are classified as deviating from the standard requirements.

BS EN 12390-7 - 2019
Hardened concrete density test carried out in saturated condition.
Volume determined by measurement or designated size. Any fins removed by abrasive stone.
BS EN 12390-3 - 2019
Specimen failure normal, specimen appearance normal.

Signed:

Julie Schofield - Concrete Section Manager

For and on behalf of SOCOTEC UK Limited

Signed Date: 13/05/2025

Certified that testing was carried out in accordance with the test methods identified herein. This test report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

4.6 MINING REMEDIATION AUTHORITY PERMIT

Mining Remediation Authority

Permit to Enter or Disturb
Mining Remediation Authority Interests

Permit 29707

Name and Address of Permit Holder:

Patrick Haigh
408 Wakefield Road
Denby Dale
Huddersfield
HD8 8RP

Site Location:

Land At The Dale Inn
408 Wakefield Road
Denby Dale
Huddersfield
HD8 8RP

This certificate hereby grants the above named Permit Holder a Permit to carry out:-

Treatment of shallow mining workings by drilling and grouting 30 boreholes to 12m on a 2m and 3m grid

within the Authority's interests at the identified site location above as shown on the Granted Permit Boundary (overleaf) for the period of **12 months** from the granted date shown below. *The granting of this Permit does not constitute advice given by the Authority in relation to the proposed operations. It is the Permit Holder's responsibility to obtain appropriate health, safety, environmental, technical and legal advice.*

Conditions:

- *Manned entry (i.e., into mine entries/workings) is strictly prohibited.*
- *Water flush*
- *Gas Monitoring CO, CH_4, CO_2, O_2, H_2S at borehole and rig*
- *Operators undertaking the work must be in possession of this certificate and the Permit boundary plan at the time of works*
- *Appropriate borehole sealing without delay and to withstand site level changes*

Signed: _____ Granted Date: ***26th March 2025***

For and on behalf of the Mining Remediation Authority

Nominated Representative: Ruth Griffiths, Permitting Manager;
Mining Remediation Authority, Permitting Office, 200 Lichfield Lane, Mansfield, Notts, NG18 4RG
Tel: 01623 637450; E-Mail: permissions@coal.gov.uk