JNP GROUP

CONSULTING ENGINEERS

Mining Risk Assessment

Project: Whistlestop Valley,
Clayton West,
Kirklees,
HD8 9PS

Client: Acumen Designers and Architects Ltd

Reference: S12656-JNP-XX-XX-RP-G-1001 CMRA

Date: September 2024

DOCUMENT CONTROL SHEET

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FOR AND ON BEHALF OF JNP GROUP
Date: September 2024

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1 INTRODUCTION

1.1 General

1.1.1 JNP Group were instructed by Acumen Designers and Srchitects Ltd. to undertake a Mining Risk Assessment of:

Whistlestop Valley,
West Clayton,

hereinafter referred to as 'the site'.

1.1.2 It has been identified that the site is within a Coal Mining Reporting Area and that a Mining Risk Assessment is required to review all available site-specific information regarding the local geology, site history, and setting, in relation to historic mining, to identify and assess risks to the proposed project from historic mining, and recommend any further investigation and mitigation works that may be required.

1.1.3 Any comments given are based on the understanding that the proposed redevelopment will be as detailed in Section 1.2.

1.1.4 This report is confidential and has been prepared solely for the benefit of the client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from JNP Group; a charge may be levied against such approval. JNP Group accepts no responsibility or liability for the consequences of this document being used for any purpose or project other than for which it was commissioned, and this document to any third party with whom an agreement has not been executed.

1.1.5 This report has been prepared following information gathered up to 19nd September 2024 and includes the Mining Report undertaken by the Coal Authority. JNP Group warrants the accuracy of this report up to and including that date. Additional information, improved practices, or changes in legislation, may necessitate this report having to be reviewed in whole or in part after that date. If necessary, this report should be referred back to JNP Group for re-assessment and, if necessary, re-appraisal.

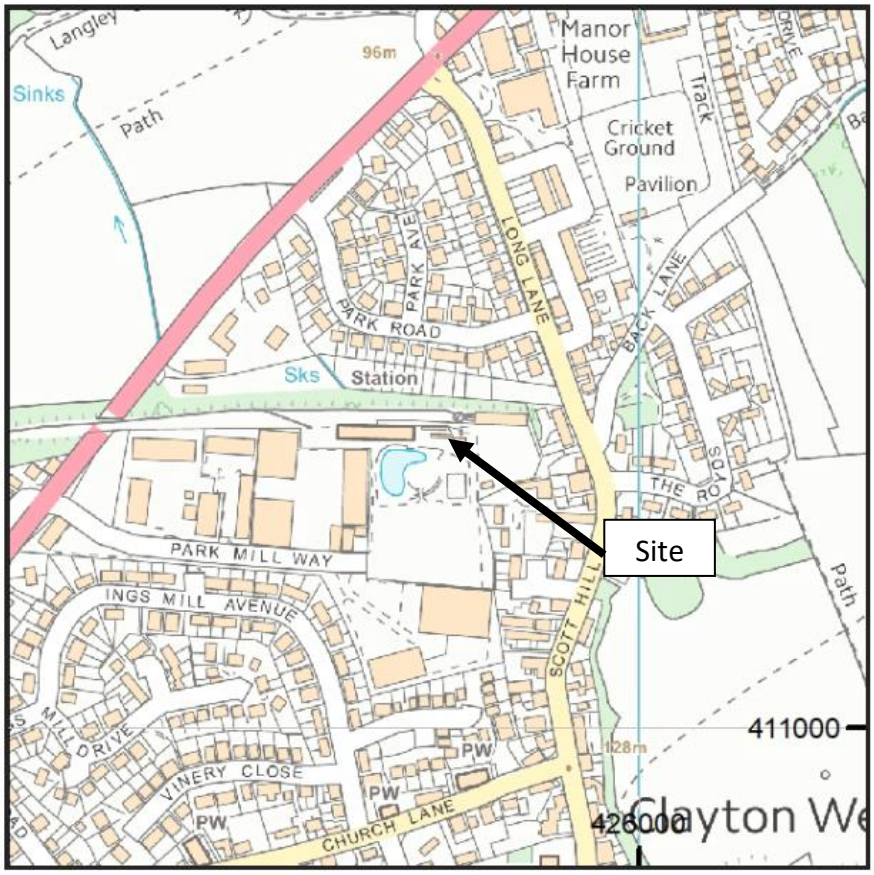
1.2 Proposed Works

1.2.1 It is understood that the proposed works comprise the removal of a train carriage and construction of a semi-permanent structure at Whistlestop Valley (formerly Kirklees Light Railway). The development will not require any excavations or footings as it will sit on a concrete slab.

1.3 Site Location and Description

1.3.1 The site is located near Clayton West, c.12km southeast of Huddersfield town centre. The site is located by the Kirklees Light Railway in a predominately rural area. A site location map is included in Figure 1. 1.

Figure 1.1: Site location



1.4 Scope of the Coal Mining Risk Assessment

1.4.1 The purpose of this Coal Mining Risk Assessment Report is to:

- Present a desk-based review of all available information on the coal mining issues which are relevant to the application site.
- Use that information to identify and assess the risks to the proposed development from coal mining legacy, including the cumulative impact of issues.
- Set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including any necessary remedial works and/or demonstrate how coal mining issues have influenced the proposed development.
- Demonstrate to the Local Planning Authority that the application site is, or can be made, safe and stable to meet the requirements of National Planning Policy regarding development on unstable land.

1.5 Sources of Information

1.5.1 The following sources of information have been obtained, upon which the risk assessment of coal mining issues has been based. Reports/extracts are appended where relevant.

- An up-to-date Consultants Coal Mining Report (Appendix A).
- Mining data obtained from the Coal Authority online interactive viewer (http://mapapps2.bgs.ac.uk/coalauthority/home.html).
- Geological information obtained from the British Geological Survey including GeoIndex.
- Geological information obtained from the British Geological Survey including 1:50.000 Map Sheet 86. The paper copy of this map was also used (Sheet 86, Glossop).
- Geological information obtained from the British Geological Survey including 1:10,000 Map Sheets SE21SE (2005) and SE21 SW (2003).

2 SUMMARY OF FINDINGS

2.1 Geological Maps

2.1.1 Made ground is indicated to be present on the site on the 1:10,000 geological map.

2.1.2 There are no superficial deposits shown underlying the site.

2.1.3 The bedrock geology beneath the site comprises rocks of the Pennine Lower Coal Measures Formation which generally dips gently towards the east / northeast in this area. The Pennine Lower Coal Measures Formation are described as '*Interbedded grey mudstone, siltstone and pale grey sandstone, commonly with mudstones containing marine fossils in the lower part, and more numerous and thicker coal seams in the upper part.*'

2.1.4 The proposed development is located to the south of a fault which is present off site. A coal seam outcrops across or just to the north west of the site, which the 1:10,000 map indicates is the Whinmoor and Shertcliffe Coal. In this area these coals are shown as one seam with minimal separation between the two. The seams have thicknesses of 0.9m and 0.6m in the area. A short distance to the east and at a slightly higher elevation is the Top Lousey Coal which is indicated to be between zero and 0.2m thick. There are a number of coals shown on the 1:10000 legend between these seams but their outcrop is not shown on the map so are presumed to be thin or absent.

2.1.5 Seams beneath the Whinmoor Coal are not shown on this map legend. The legend for the map immediately to the west (SE21 SW) shows the Whinmoor Coal to be underlain by the Low Whinmoor Coal and then the Cumberworth Thin Coal. The thicknesses from this map are as follows:

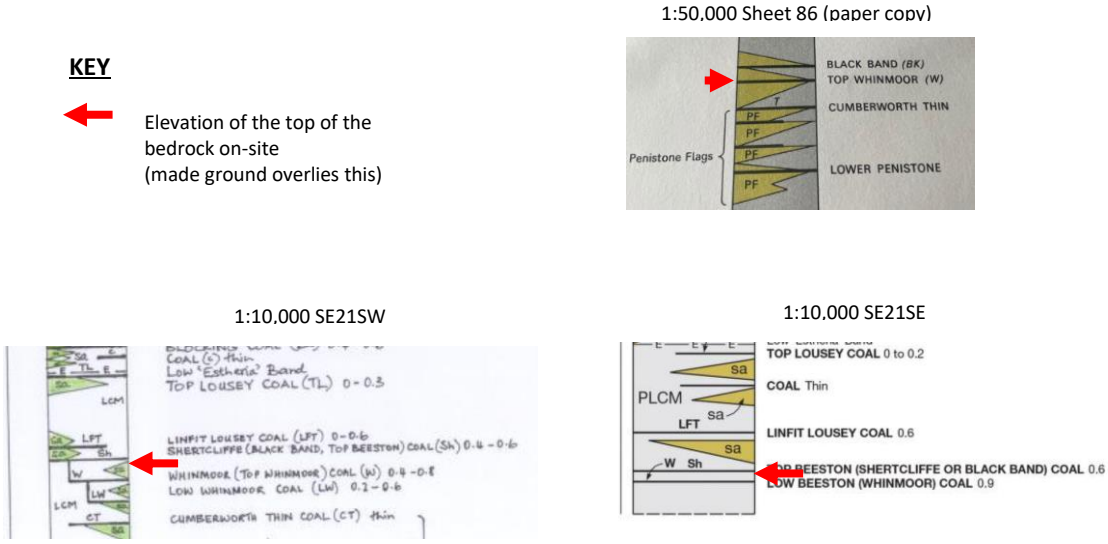
- Shertcliffe 0.4 – 0.6m
- Whinmoor 0.4 – 0.8m
- Low Whinmoor 0.2 – 0.6m
- Cumberworth Thin thin

2.1.6 Below the Cumberworth Thin are the Penistone Flags containing a number of impersistent coal seams.

2.1.7 Based on the above several coal seams are potentially present beneath the site.

2.1.8 The legends from the 1:50000 and 1:10000 maps are included below.

Figure 2.1 Geological Map Legends



2.2 Borehole Records

2.2.1 JNP Group has consulted online borehole records held by the BGS. There are several boreholes located close to the site although all are shallow, the deepest extending to only 5m below ground level (bgl). They show variable site conditions which can be summarised as up to 2.4m of colliery waste overlying made ground (silty clay with coal fragments) in some locations overlying clay and mudstone. Groundwater was generally absent or present only as seepages.

2.3 Consultants Coal Mining Report

2.3.1 A Consultants Coal Mining Report was obtained for the site which is included in Appendix B.

2.3.2 The report notes that there are no records of past underground mine workings.

2.3.3 There are probable unrecorded shallow workings beneath the site.

2.3.4 There are no mine entries or spine roads at shallow depth beneath or near the site.

2.3.5 The Whinmoor Coal is noted to outcrop within the site area and is considered workable.

2.3.6 There is one recorded gas incident / remediation recorded 284m to the north.

2.3.7 There are no other pertinent details provided by the Coal Authority Report.

2.4 Seam Depths

2.4.1 The stratigraphic column on the 1:50000 paper map shows the separation between the Whinmoor and Cumberworth Thin to be 15m. Using this distance, the distance between the Whinmoor and other seams listed above from the 1:10,000 map legend is as follows. The seam thicknesses as reported from both 1:10,000 maps is also shown below.

Table 2.1 Coal Seams Distance above or below the Whinmoor

Name	Depth Above / Below Whinmoor (m)	Thickness (m)
Shertcliffe	8.0 above	0.4 – 0.6
Whinmoor	0	0.4 – 0.9
Low Whinmoor	7.3 below	0.2 – 0.6
Cumberworth Thin	15 below	thin

2.4.2 The site level is somewhere between the Whinmoor and Shertcliffe Coals. There is up to 8m of rock between these seams and the Whinmoor has a thickness up to 0.9m.

2.4.3 Given that there is less than ten times seam thickness to intact rock cover, there is the potential for any voids resulting from historic shallow workings in the Whinmoor seam to crown at the base of the made ground or surface.

2.4.4 There is potentially sufficient rock cover between the lower seams to prevent voids migrating from deeper seams.

3 IDENTIFICATION AND ASSESSMENT OF SITE-SPECIFIC MINING RISKS

3.1.1 The site is recorded to be on the edge of a 'Development High Risk' Area. The Consultants Coal Mining Report states that there is the potential for unrecorded shallow workings present on the site.

3.1.2 Made ground deposits are recorded to be present on site to an unknown depth.

3.1.3 The Whinmoor seam is present beneath the site and there could be insufficient rock cover above the seam depending on the depth and thickness of the seam.

4 THE COAL AUTHORITY PERMISSION

4.1.1 Should intrusive works be required, prior written permission from the Coal Authority is required for any intrusive activities which will disturb or enter any coal seems, coal mine workings or coal mine entries (shafts and adits). It is our opinion in this instance that investigation works are highly likely to be required.

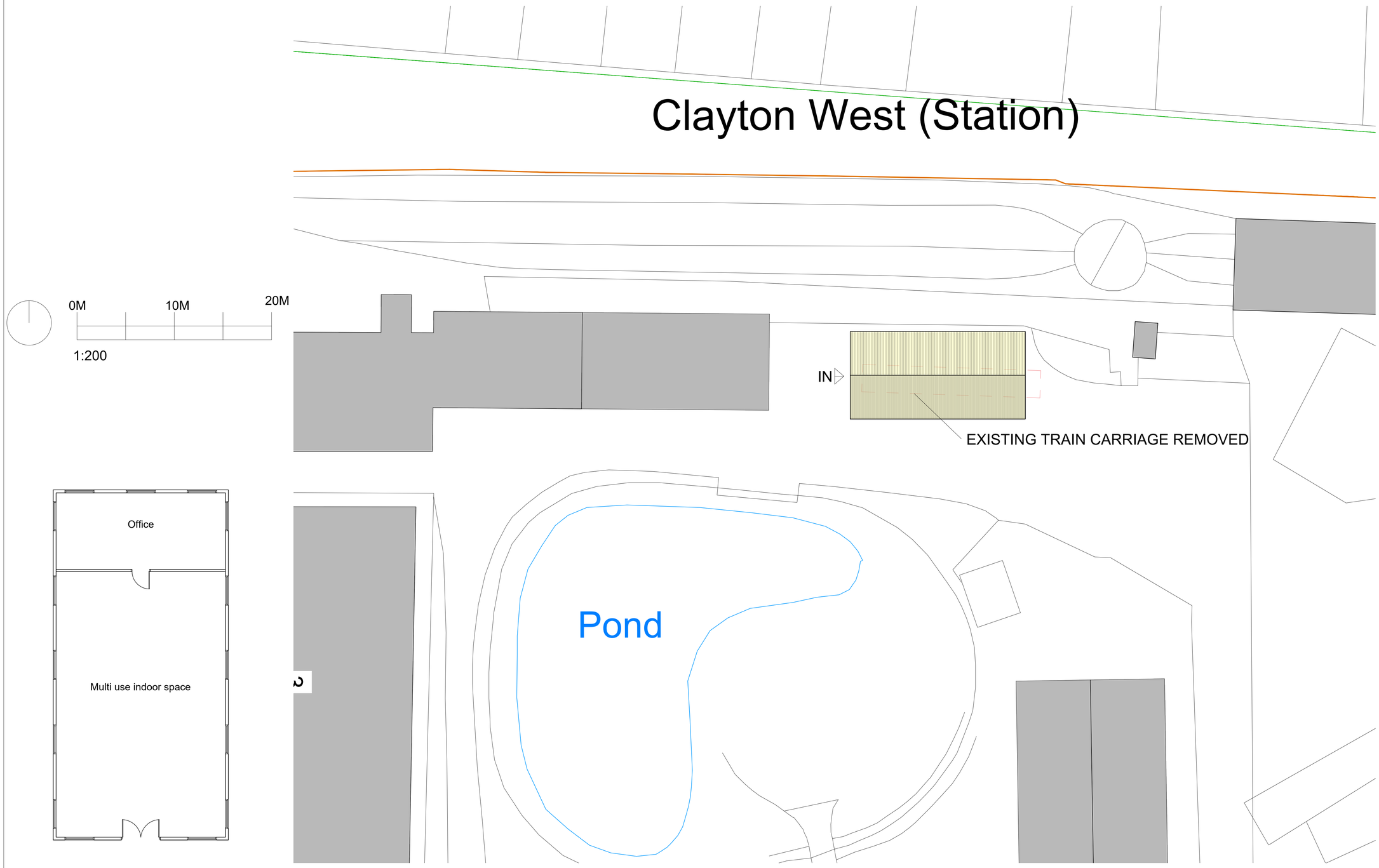
5 CONCLUSIONS AND RECOMMENDATIONS

5.1.1 A review of available desk-based information has identified that the site is on the edge of a 'Development High Risk' area. Review of geological data indicates that shallow working may have occurred beneath the site and that crowning of any voids associated with the Whinmoor Coal may occur.

5.1.2 Based on the information provided herein and the nature of the proposed development, it is the opinion of JNP Group that there is a risk from shallow historical unrecorded workings. Therefore further works are deemed to be required at this stage.

5.1.3 It is recommended that a minimum of 2 boreholes are drilled on the site to a depth of 10m to determine what coal seams are present beneath the site, whether they have been worked, their thickness and prove if there is sufficient rock cover to prevent crowning of any worked seams.

APPENDIX A: PROPOSED DEVELOPMENT



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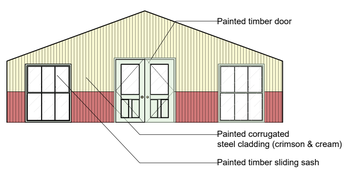
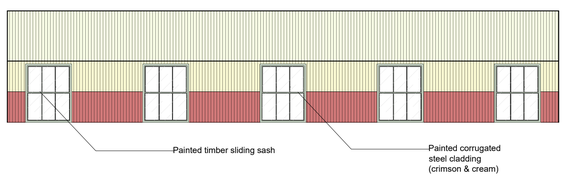


W E S T E L E V A T I O N



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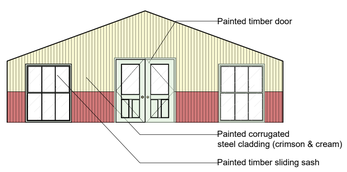
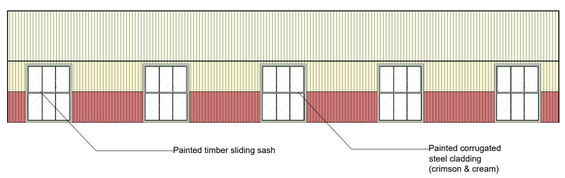


E A S T E L E V A T I O N



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DESIGNERS & ARCHITECTS
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Headrow House, Old Leeds Road, Huddersfield, HD1 1SG

Client
WHISTLESTOP VALLEY

Project
ERECTION OF SEMI PERMENANT MULTI USE STRUCTURE @ CLAYTON WEST

Project No	Drawing No	Rev
2746	(300)02	/

Description
PROPOSED PLANS and ELEVATIONS

Scale	Date Drawn	Drawn By	Authorised By
1:100/200@ A1	APR'23	JF	JC

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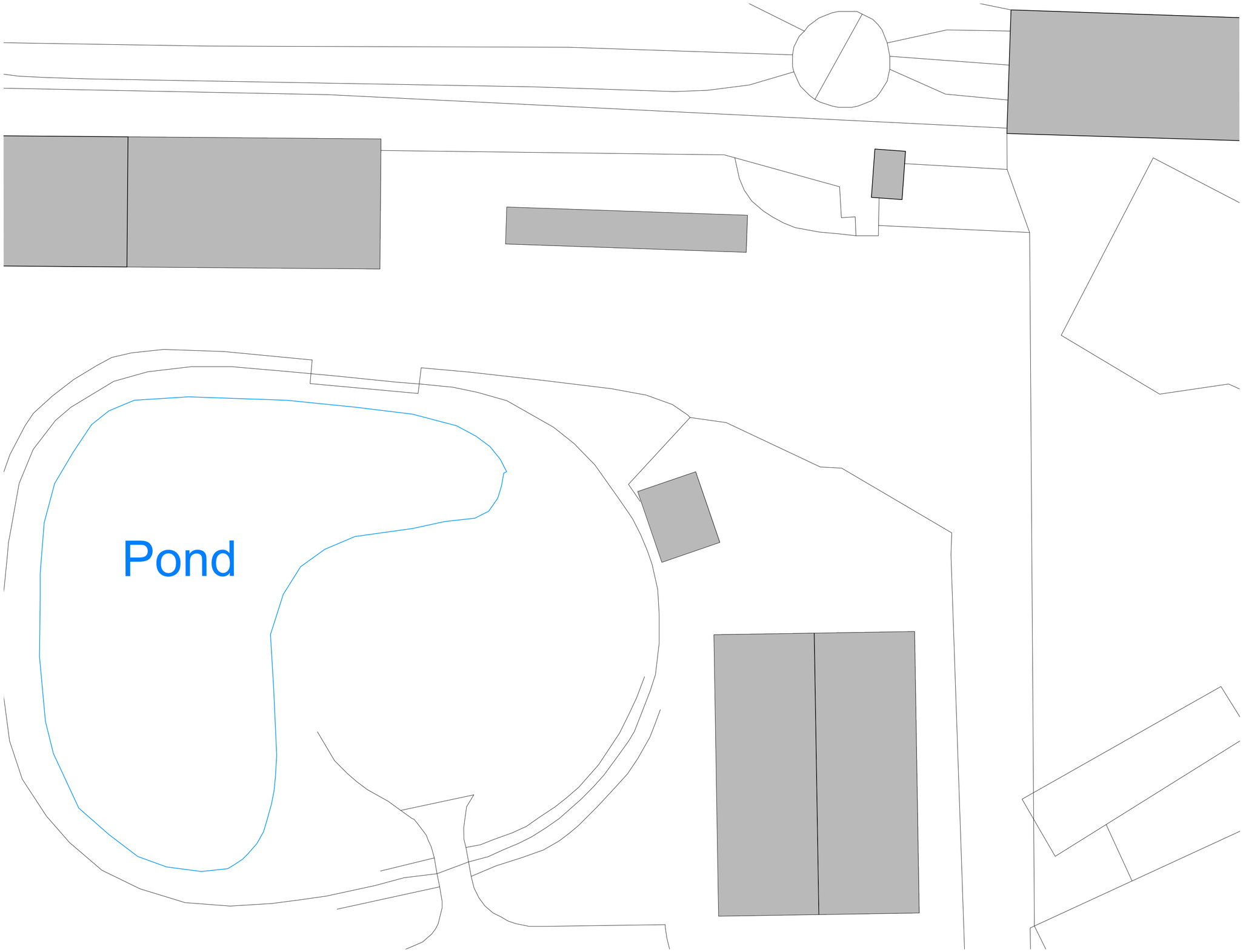
Purpose of Issue
Planning ● Building Regs ○ Tender ○ Construction ○ Comment ○ Info ○



EXISTING SITE PLAN

0M 10M 20M

1:200

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DESIGNERS & ARCHITECTS
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Headrow House, Old Leeds Road, Huddersfield, HD1 1SG

Client
WHISTLESTOP VALLEY

Project
ERECTION OF SEMI PERMENANT
MULTI USE STRUCTURE @ CLAYTON WEST

Project No	Drawing No	Rev
2746	(300)01	/

Description
EXISTING SITE PLAN

Scale	Date Drawn	Drawn By	Authorised By
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Purpose of Issue
Planning● Building Regs○ Tender○ Construction○ Comment○ Info○

APPENDIX B: COAL AUTHORITY REPORT

The Coal Authority

Consultants

Coal Mining Report

425845 411234,
West Yorkshire

Date of enquiry:	**19 September 2024**
Date enquiry received:	**19 September 2024**
Issue date:	**19 September 2024**
Our reference:	**51003451309001**
Your reference:	**GS-U1H-ZOR-8QA-EZC**

Consultants

Coal Mining Report

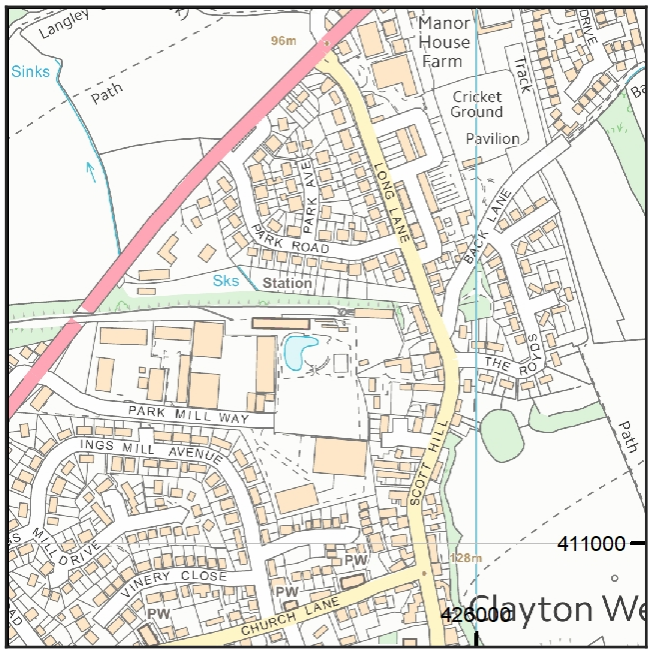
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

425845 411234,
West Yorkshire



Approximate position of property

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Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining
No past mining recorded.

Probable unrecorded shallow workings
Yes.

Spine roadways at shallow depth
No spine roadway recorded at shallow depth.

Mine entries
None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers
The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

M1045	PO0	NE995

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
WHINMOOR	Coal	Yes	Within	N/A	245

Geological faults, fissures and breaklines
No faults, fissures or breaklines recorded.

Opencast mines
None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips
None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

Distance to gas incident/remediation (m)	Direction
284.2	North

See Section 4 for further information.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Mine gas remedial works

The site is within an area of previous interest. It is close to where the Coal Authority has investigated and subsequently remediated the effects of mine or ground gas emissions following specific reported hazards.

The site requires further investigation and may influence your risk assessment. We recommend that you order the **Coal Authority Mine Gas Emission Report**, which will include more information about the hazard.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

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Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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The Coal Authority

Summary of findings

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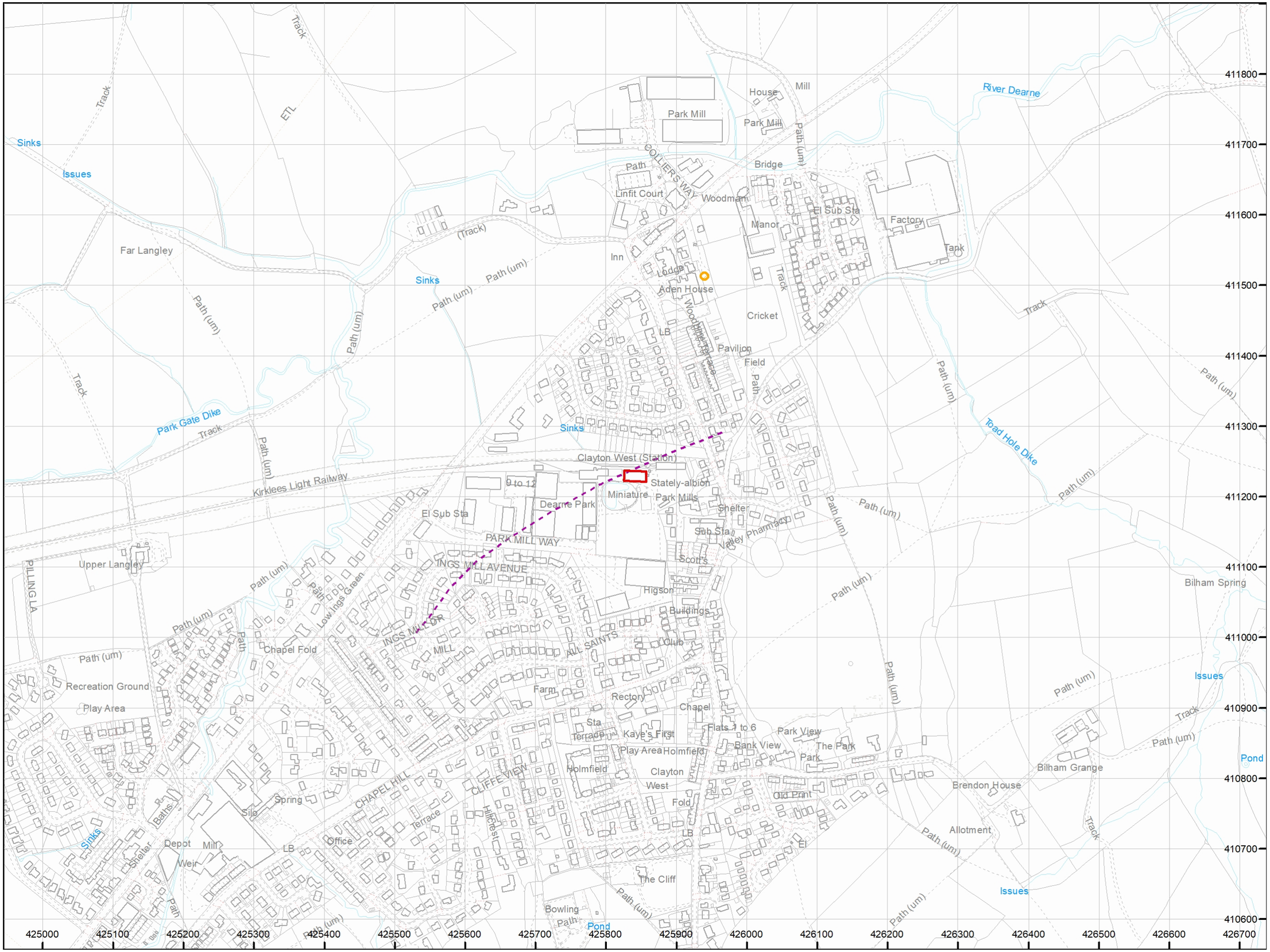
The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown

Outcrop (Conjectured)

Mine gas remedial works



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