

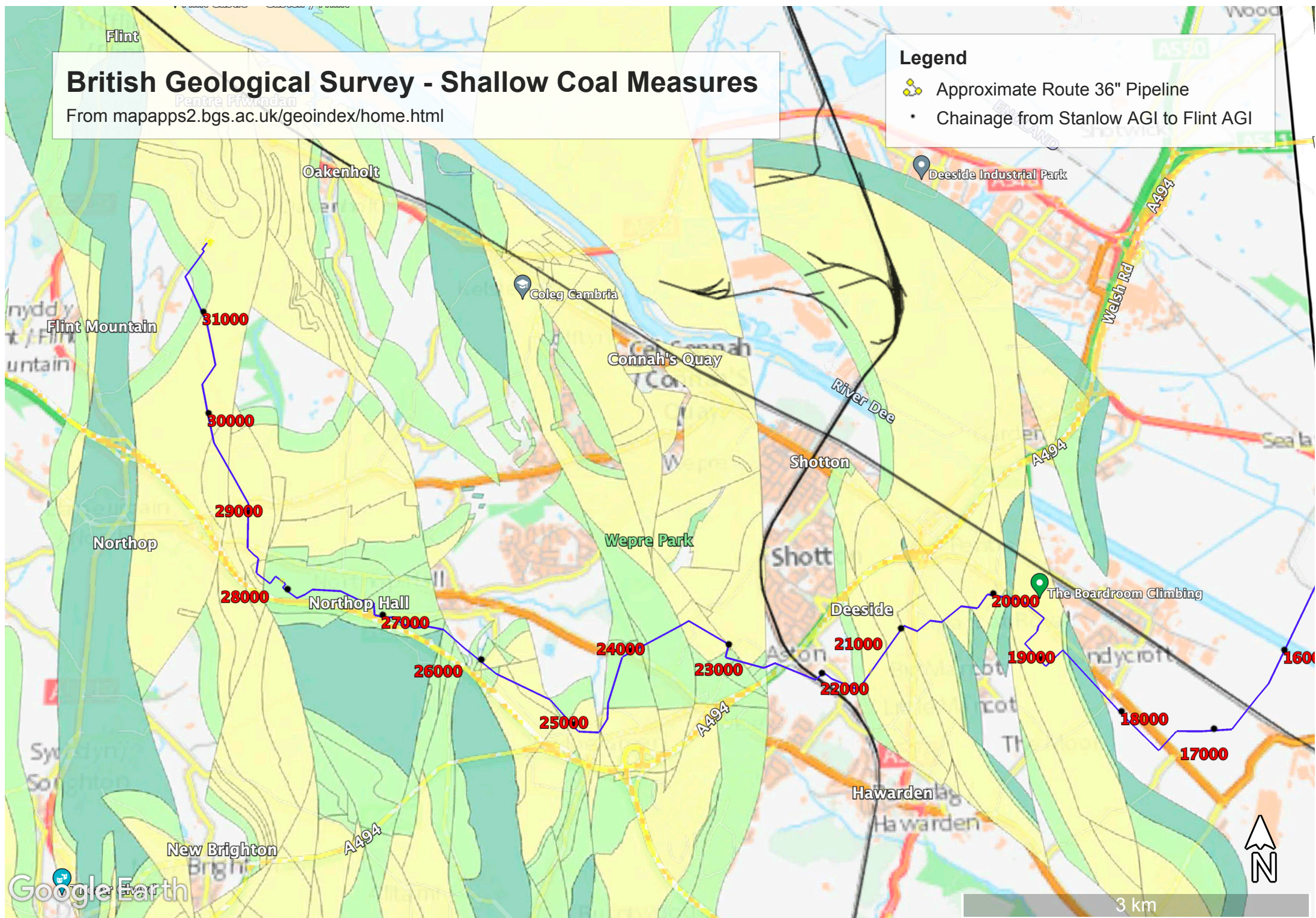


British Geological Survey - Shallow Coal Measures

From mapapps2.bgs.ac.uk/geoindex/home.html





Legend



-  Approximate Route 36" Pipeline
-  Chainage from Stanlow AGI to Flint AGI



Map Key

Shallow Coal

-  Buried coal resource overlain by up to 50m overburden
-  Primary opencast coal resource area
-  Secondary opencast coal resource area
-  Tertiary opencast coal resource area

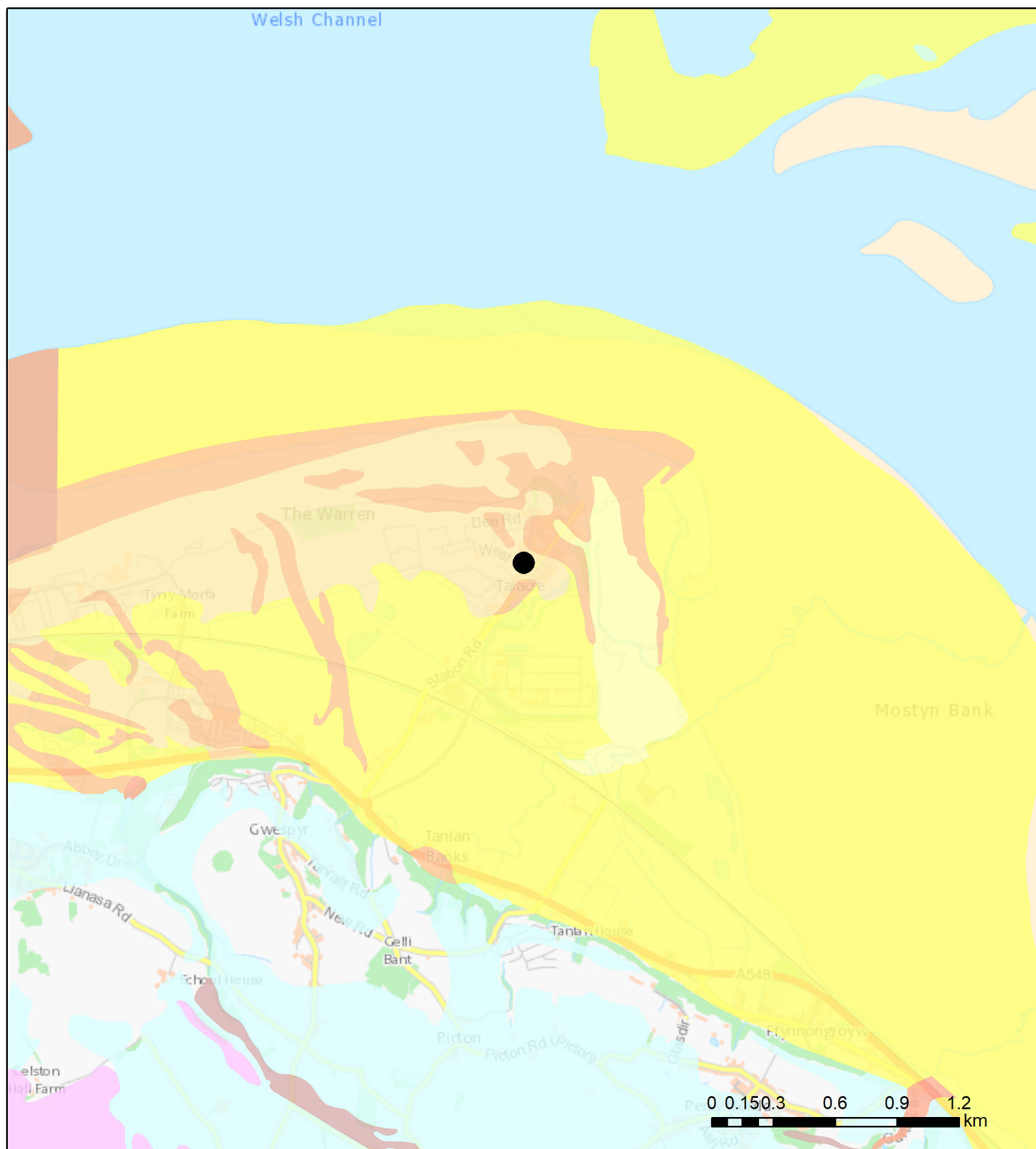
| | | |
|---|---|------------------------------------|
|   uk progetti | Sheet of Sheets 26 / 282 | |
| | Company Document ID 1025H0BGRV09410 | Validity Status Revision Number |
| | CD-FE | 02 |

Geology – Point of Ayr

PoA Superficial Deposit



British
Geological
Survey



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GeoIndex Onshore Data Sources: NERC, Natural England, English Heritage and Ordnance Survey

Map Key

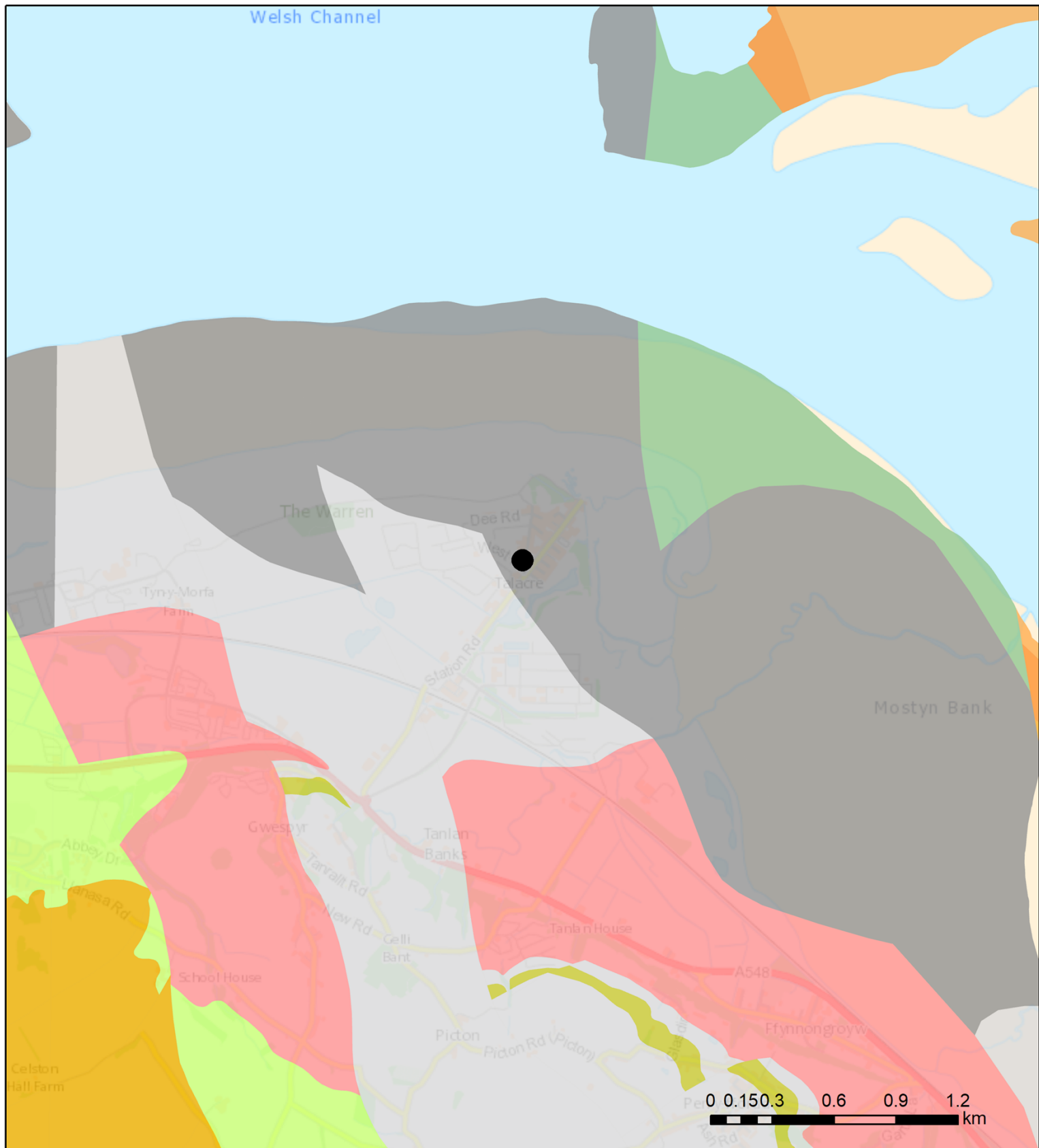
Superficial deposits 1:50,000 scale

| | |
|--|--|
|  | <u>GLACIOFLUVIAL DEPOSITS, DEVENSIAN - SAND AND GRAVEL</u> |
|  | <u>TILL, DEVENSIAN - CLAY, SANDY, GRAVELLY, COBBLY</u> |
|  | <u>SALTMARSH DEPOSITS - CLAY, SILT AND SAND</u> |
|  | <u>BLOWN SAND - SAND</u> |
|  | <u>HEAD - CLAY, SILT, SAND AND GRAVEL</u> |
|  | <u>STORM BEACH DEPOSITS - GRAVEL</u> |
|  | <u>ALLUVIAL FAN DEPOSITS - CLAY, SILT, SAND AND GRAVEL</u> |
|  | <u>MARINE BEACH DEPOSITS - SAND</u> |
|  | <u>TIDAL FLAT DEPOSITS - SAND</u> |
|  | <u>PEAT - PEAT</u> |

PoA Bedrock Geology



British
Geological
Survey












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GeoIndex Onshore Data Sources: NERC, Natural England, English Heritage and Ordnance Survey

Map Key

Bedrock geology 1:50,000 scale

| | |
|--|---|
|  | <u>PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE</u> |
|  | <u>LLANARMON LIMESTONE FORMATION - LIMESTONE</u> |
|  | <u>TEILIA FORMATION - MUDSTONE AND LIMESTONE, INTERBEDDED</u> |
|  | <u>GWESPYR SANDSTONE - SANDSTONE AND [SUBEQUAL/SUBORDINATE] ARGILLACEOUS ROCKS, INTERBEDDED</u> |
|  | <u>WARWICKSHIRE GROUP - MUDSTONE, SILTSTONE AND SANDSTONE</u> |
|  | <u>PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE</u> |
|  | <u>BOWLAND SHALE FORMATION - MUDSTONE</u> |
|  | <u>CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)</u> |
|  | <u>COLLYHURST SANDSTONE FORMATION - SANDSTONE</u> |
|  | <u>CUMBRIAN COAST GROUP - MUDSTONE</u> |
|  | <u>PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE</u> |
|  | <u>PENTRE CHERT FORMATION - CHERT</u> |

PoA Coal Measures



British
Geological
Survey









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GeoIndex Onshore Data Sources: NERC, Natural England, English Heritage and Ordnance Survey



Map Key

Shallow Coal

-  Buried coal resource overlain by up to 50m overburden
-  Primary opencast coal resource area
-  Secondary opencast coal resource area
-  Tertiary opencast coal resource area

| | | | | |
|---|------------------------|--|-----------------------------|--------------------|
|   uk progetti | Company Document ID | | Sheet of Sheets 27 / 282 | |
| | 1025H0BGRV09410 | | Validity Status | Revision Number |
| | | | CD-FE | 02 |

8.0 APPENDIX B – COAL MINING REPORTS AND DATA FROM THE COAL MINING WEBSITE

| | | |
|---|-----------------------------|--------------------|
|   | Sheet of Sheets 28 / 282 | |
| | Validity Status | Revision Number |
| | CD-FE | 02 |

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|---|
| Company Document ID 1025H0BGRV09410 |
|---|

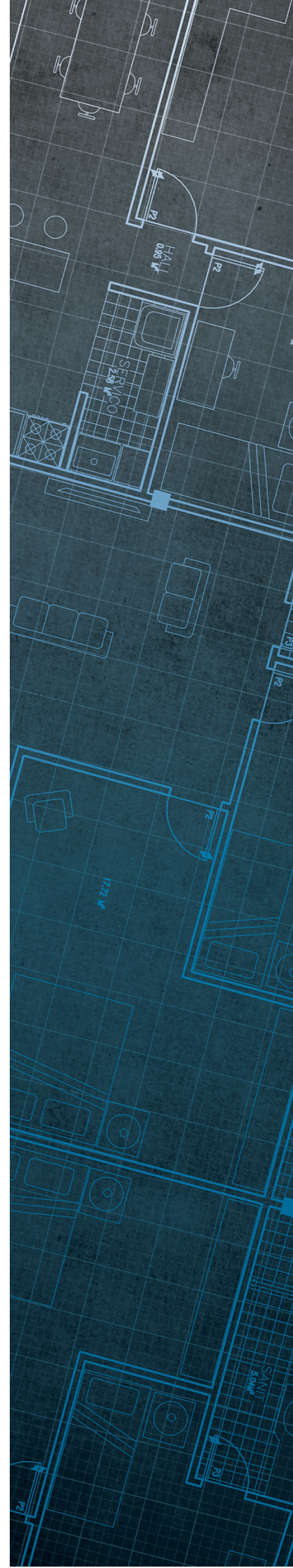
Coal Mining Report (Mancot Lane to Gladstone Way) – 51002513967001

Includes Hazard Assessment Report as highlighted in the Coal Mining Report.



Liverpool Bay Ccs
Cheshire

Our reference: 51002513967001
Your reference: Liverpool Bay G&G Desk
Study 1



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

ENI ENGINEERING

Enquiry address

Liverpool Bay Ccs
Cheshire

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

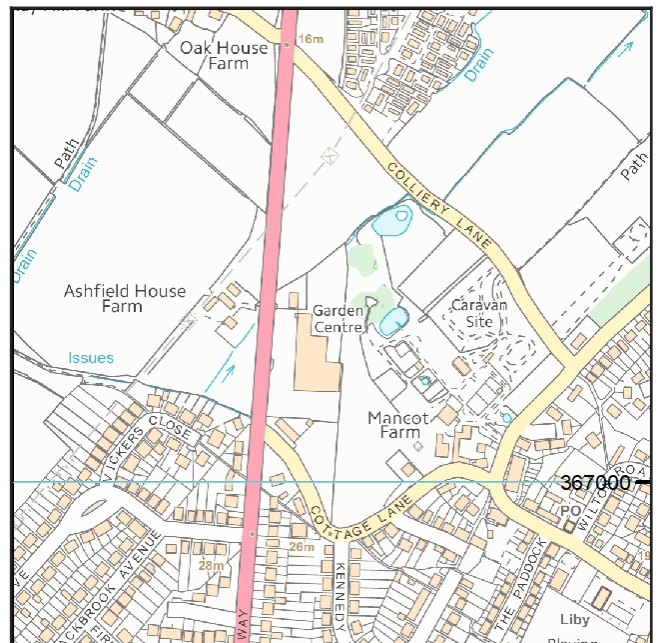
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

| Colliery | Seam | Mineral | Coal Authority reference | Depth (m) | Direction to working | Dipping rate of seam worked (degrees) | Dipped direction of seam worked | Extraction thickness (cm) | Year last mined |
|----------|----------------------|---------|--------------------------|-----------|----------------------|---------------------------------------|---------------------------------|---------------------------|-----------------|
| unnamed | BRASSEY | Coal | 37SR | 41 | Beneath Property | 11.3 | East | 200 | 1870 |
| unnamed | MAIN | Coal | 37WQ | 53 | Beneath Property | 15.0 | East | 200 | 1876 |
| unnamed | MAIN | Coal | 7H1K | 70 | Beneath Property | 15.0 | East | 200 | 1876 |
| unnamed | MAIN | Coal | 7NX5 | 73 | South | 15.0 | East | 200 | 1895 |
| unnamed | PREMIER (LOWER FOOT) | Coal | 3CQW | 138 | North-West | 15.0 | North-East | 120 | 1913 |

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

| Entry type | Reference | Grid reference | Treatment description | Mineral | Conveyancing details |
|------------|------------|----------------|---|---------|----------------------|
| Shaft | 331366-009 | 331287 366990 | The shaft was filled to an unknown specification by the NCB in 1951. The fill was drilled and grouted with 182 tons in May 1975 followed by inserting a 9m x 9m x 1.5m thick reinforced concrete plug at Rockhead some 6m below ground level. | Coal | |
| Shaft | 331367-005 | 331649 367405 | | Coal | |
| Shaft | 331367-006 | 331646 367399 | | Coal | |
| Shaft | 331367-036 | 331675 367392 | This entry was filled to an unknown specification in July 1951. | Coal | |
| Shaft | 331367-046 | 331824 367263 | | Coal | |
| Shaft | 331367-047 | 331843 367272 | | Coal | |
| Shaft | 331367-057 | 331353 367392 | This shaft is located in an area that has been worked by opencast mining operations. There are no details of any treatment but it is likely that shaft has been partially or totally removed. | Coal | |
| Shaft | 331367-058 | 331372 367327 | This shaft is located in an area that has been worked by opencast mining operations. There are no details of any treatment but it is likely that shaft has been partially or totally removed. | Coal | |
| Shaft | 331367-059 | 331391 367315 | This shaft is located in an area that has been worked by opencast mining operations. There are no details of any treatment but it is likely that shaft has been partially or totally removed. | Coal | |
| Shaft | 331367-060 | 331391 367426 | This shaft is located in an area that has been worked by opencast mining operations. There are no details of any treatment but it is likely that shaft has been partially or totally removed. | Coal | |

Abandoned mine plan catalogue numbers

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

| | | |
|-------|--------|---|
| 16138 | NW1531 | 0 |
| PO0 | 543 | |

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 |
|-----------|---------|---------------|-------------------------|----------------------|--------------------|
| BRASSEY | Coal | Yes | Within | N/A | 161 |
| MAIN | Coal | Yes | Within | N/A | 150 |

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

Please refer to the "Summary of findings" map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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

| Distance to site investigation (m) | Direction |
|------------------------------------|-----------|
| Within | N/A |

See Section 4 for further information.

Remediated sites

| Distance to site remediation (m) | Direction |
|----------------------------------|-----------|
| Within | N/A |

See Section 4 for further information.

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

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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.

Section 4 – Further information

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

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

Remediated sites

The site is within an area of previous interest. It is close to where the Coal Authority has investigated and where necessary remediated mine entries and/or shallow coal mine workings following specific reported hazards.

The site requires further investigation and may influence your risk assessment. We recommend that you order the Coal Authority **Surface Hazards Incident 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.

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.

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.

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.

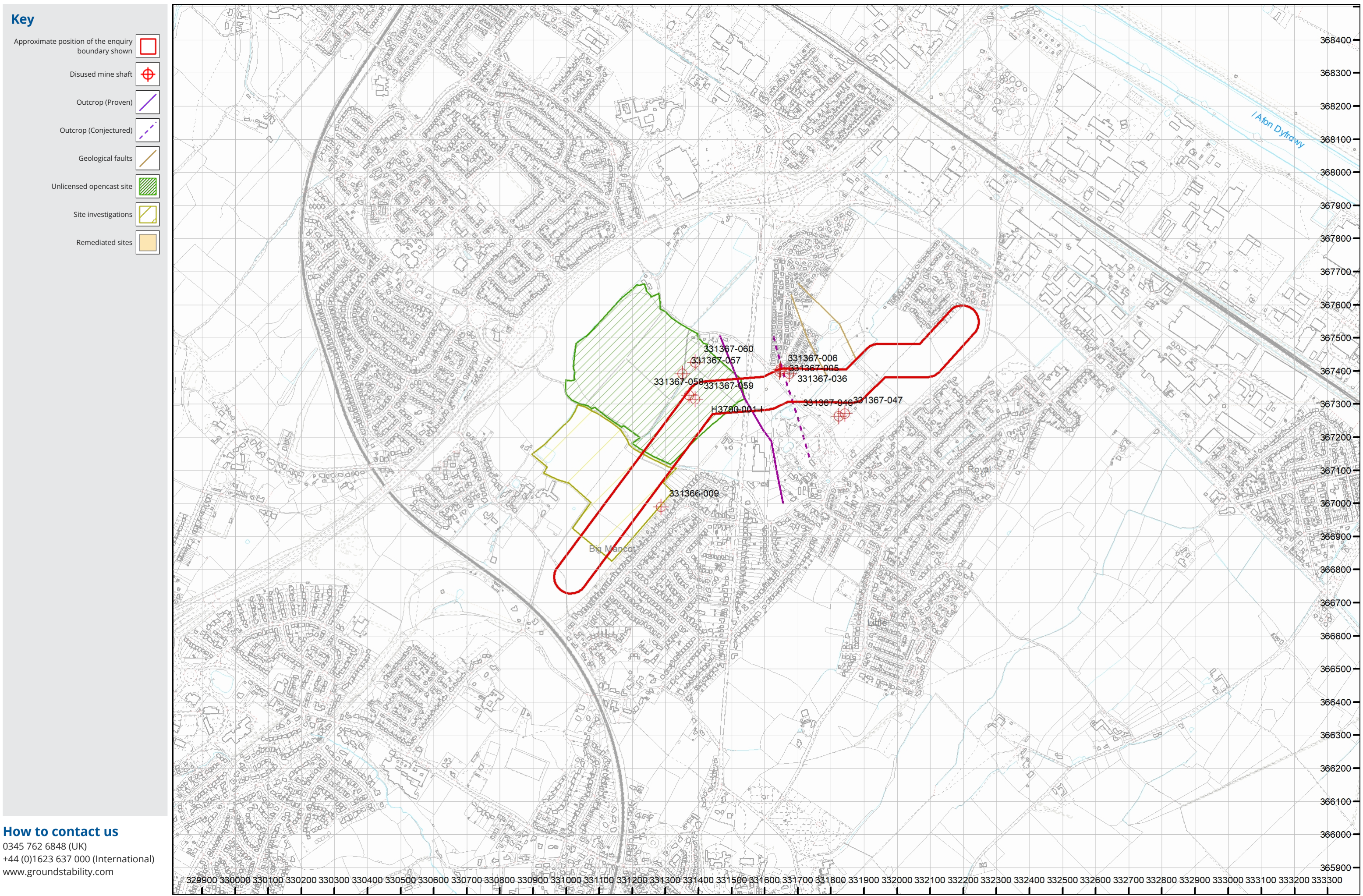
Withdrawal of support notices

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.

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



C.A. Hazard Number

H 3790

The
COAL
AUTHORITY

Nature of Incident

Brief description including approximate dimensions of any surface collapse, or other problem such as gas or water

Nature of Incident

Hole in land - 6ft x 4ft dia x 20ft deep

Surface Hazard Notification Form

Location of Incident

National Grid Co-ordinates

Easting (m)

Northing (m)

Location

Ashfield House Farm

Street

Town

Hawarden

County/Unitary Authority

Flintshire

Postcode

Other Location Details

CA Officer - P Dawson

Details of Caller

Title

First Name

Telephone Code

Telephone Number

Mobile Telephone Number

Company

William Hall & Co

Street

Town

County/Unitary Authority

Post Code

Person to Contact If Different From Above

Title 2

First Name 2

Surname 2

Company 2

Please complete the above form and forward to :-
Helen Day
The Coal Authority
200 Lichfield Lane, Berry Hill, Mansfield,
Nottinghamshire, NG18 4RG
and Fax on 01623 620363.
If you have any questions please phone on
01623 638339

p:\database\Historic\SHNF1.apr

Person Receiving Call

Person Rec. (First Name)

Angela

Person Rec (Surname)

Clarke

Time of Call

Time of Call

11:00 am

Date of Call

06/05/03

please tick appropriate box

England

JMC or IMC

Scotland

IMC

Wales

JMC

Consultant Notification Details

Engineer Contacted (Name)

Ian McCormick

Time Engineer Contacted

11:07 am

Date Engineer Contacted

06/05/03

JMC Mining Services

Tel.Office Hrs 01773 830130

Fax 01773 830230

Tel Outside Office Hours

07939 648164

IMC

Tel.Office Hrs 01623 441444

Fax 01623 440021

Tel Outside Office Hours

07831 126615



This matter is being dealt with by Keith Banton

Our Ref: **187659-03**

Your Ref: **H3790 6-5-03**

Incident Date:

SURFACE HAZARD REPORT

Description and Location of Incident

HOLE IN LAND
ASHFIELD HOUSE FARM
HAWARDEN
FLINTSHIRE

**For Internal Use
Only**

Location: 331517E 367283N

Disused Mine Entries

None

Recorded Past Mining

None

Recorded Past Opencast Mining?

Y

Licence Details

None

Possible Unrecorded Shallow Mining

Inside Area of Possible Unrecorded Shallow Mining?

Y

Outcrops in Locality?

Y

Site Investigation Areas

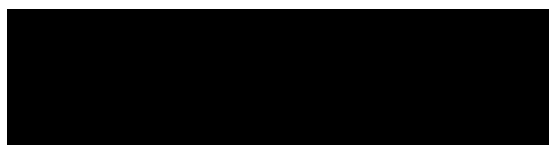
Within Site Investigation Area? N

Indemnification Issued

Coal Authority Indemnified? N

Surface Hazard History

Previous Surface Hazards at this Locality? N

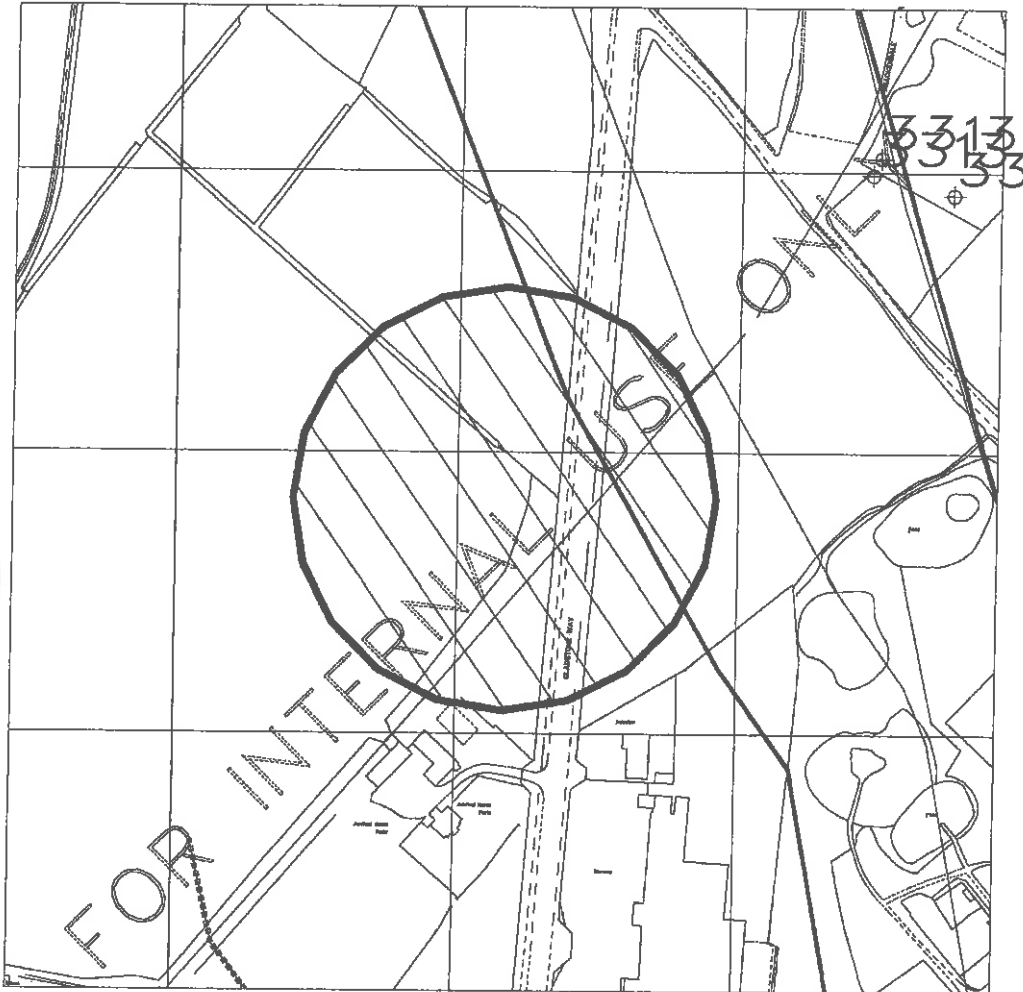


Albert Schofield
Director of Mining Records and Services

Date: 6 May 2003

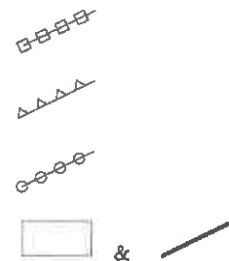
PLAN TO BE USED IN CONJUNCTION WITH COAL MINING REPORT

REFERENCE: 187659-03



Crown Copyright. Quoted scale is approximate.
SCALE: 1:2500

- APPROXIMATE POSITION OF FAULTS SHOWN
- △ APPROXIMATE POSITION OF FISSURES SHOWN
- ○ ○ ○ APPROXIMATE POSITION OF BREAKLINES SHOWN
- & / APPROXIMATE POSITION OF OUTCROPS SHOWN



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**MANAGEMENT OF 'SURFACE HAZARDS'
VISIT REPORT**

| | | | | | | | | |
|--|-----------------|----------|-------|----------------------------|-------------|-----------|---------|------------|
| Name of site ; Ashfield House Farm, HAWARDEN, Flintshire. | | | | Ref N° ; H 3790 | | | | |
| Visited by ; [REDACTED] | | | | Date visited ; 10/07/03 | | | | |
| <p>Details ;</p> <p>I attended site with the Contractor, LCC, to carry out the investigation to a collapse in the field at the above farm.</p> <p>The field had recently been cut but a second crop was currently been grown. The ground was dry and very firm.</p> <p>Plant used was a JCB and 10 tonne of topsoil was delivered directly into the field adjacent to the collapse.</p> <p>The hole was excavated in order to establish the cause. The excavation was to 3.2m depth to good clay. The excavation was 2m x 3.5m at the surface.</p> <p>At 2.5m weak ground was found which possibly indicated a filled roadway from shallow workings. However the collapse is adjacent to previous open cast workings but this area is not known to have been worked. The excavation yielded a small amount of possible support timber and what may have been shotwire.</p> <p>The excavation was filled and compacted to just below surface level and the area levelled with topsoil.</p> <p>The collapse is likely to be mining related.</p> | | | | | | | | |
| Environmental check (If √ comment above or provide details on a separate sheet and bring to the attention of the contractor) | | | | | | | | |
| Potential Impact √ or X | Noise/Vibration | Gas/Dust | Smell | Water Discharge | Traffic Imp | Waste man | Ecology | Complaints |
| | X | X | X | X | X | X | X | X |
| Signature ; Ian Hughes | | | | Date ; 13/07/03 | | | | |



JMC Mining Services Ltd
P.O. Box 36, Alfreton
Derbyshire DE55 1NG, ENGLAND
Tel: 01773 830130 Fax: 01773 830230
E-Mail: hazard@jmcms.fsnet.co.uk

1 August 2003

Reference ; H3970 3790

[REDACTED]
Hawarden Estate
Estate Office
11 Glynne Way
Hawarden
Flintshire
CH5 3NX

Dear [REDACTED]

Re: Reported Surface Hazard at Ashfield House Farm, Hawarden, Flintshire

We wish to confirm that the treatment works and the subsequent reinstatement to the above, which were carried out on behalf of the Coal Authority at your property, are now complete.

The collapse was excavated to a depth of 3.2m and opened up to an area of 2m x 3.5m. At 2.5m deep, weak ground was found which indicated possible shallow mine workings. The excavation was filled with stone and levelled with top soil.

This finalises the Coal Authority's obligations in this instance. Should you wish to discuss the matter further, please contact Mr I Hughes, JMC Mining Services Ltd, on 01773 830130.

To aid us in dealing with Surface Hazards we would be grateful if you would please complete the enclosed Customer Satisfaction form and return it to us in the stamped addressed envelope provided.

Yours faithfully

[REDACTED]
R J DIVERS
Senior Co-ordinator – Surface Hazards, Southern Region

Enc

cc: Mr W Denton – The Coal Authority

**JMC MINING SERVICES LTD
FOR THE COAL AUTHORITY
MANAGEMENT OF "SURFACE HAZARDS"
RECORD OF INVESTIGATION/TREATMENT**

REF NO: H3790

DATE REPORTED: 06.05.03

ADDRESS/LOCATION

Ashfield House Farm
Hawarden
Flintshire

GPS ;

331517 mE

367283mN

DESCRIPTION

Hole in land 2mx 1.3m x 7m deep

Shaft

Adit

Mine Working

Gas

Mine water

Heating

Other

✓

COAL AUTHORITY MINING RECORDS REF NO. (Shaft/Adit) if applicable:

N/A

INVESTIGATION

The mining report indicated that the feature is in the area of possible unrecorded shallow workings .with outcrops in the vicinity.

The hole was excavated to a depth of 3.2m at which clay was encountered. The excavation on the surface was 2m x 3.5m. At a depth of 2.5m weak ground was found indicating the possibility of a filled roadway from shallow workings. The collapse is adjacent to previous opencast workings but in an area not known to have been worked before.

Site Works:

Yes

Started:

13/06/03

Completed:

13/06/03

TREATMENT

The excavation was filled and compacted with 10 tonne of topsoil.

Site Works:

Yes

Started:

13/06/03

Completed:

13/06/03

COAL AUTHORITY " SURFACE HAZARD"

Yes

Other Comments:

None

SI

Coal Authority:

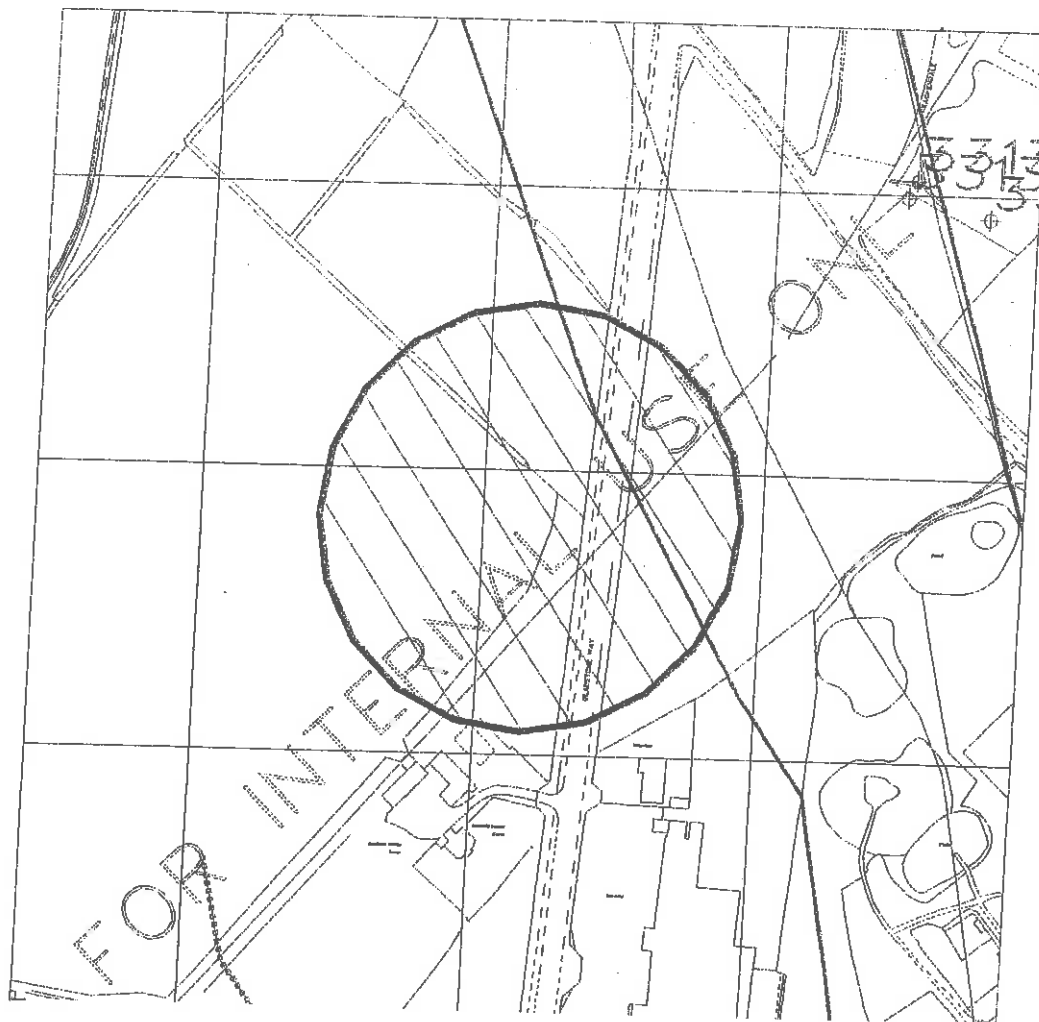
✓

DATE:

5 August 2003

Copy to Mining Reports:

✓



Historic Liabilities

JMC Mining Services
PO Box 36
Alfreton
Derbyshire
DE55 1NG

LOCATION PLAN

SCALE 1: 2500

REF NO. H3790

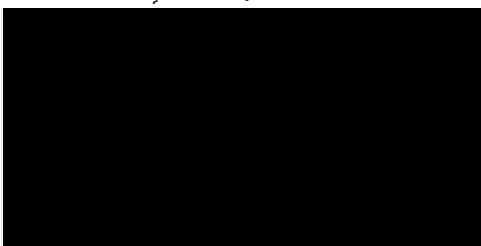


JMC Mining Services Ltd
P.O. Box 36, Alfreton
Derbyshire DE55 1NG, ENGLAND
Tel: 01773 830130 Fax: 01773 830230
E-Mail: hazard@jmcms@fsnet.co.uk

This matter is being dealt with by Mr I McCormick, JMC Mining Services Ltd

22 October 2003

Reference ; H3790



27 OCT 2003

Dear 

Re: Reported mining hazard at Ashfield House Farm, Hawarden

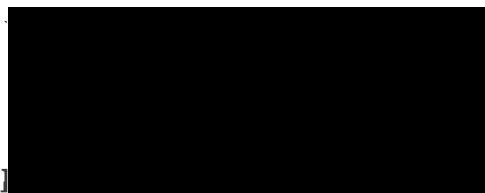
Further to your site meeting with our engineer, Mr I Hughes, regarding crop loss and weed control, the Coal Authority have instructed JMC to offer you £200 in full and final settlement.

Could you please acknowledge agreement that you accept this amount in full and final settlement by signing, dating and returning both copies of this letter to these offices in the envelope provided. We will then return to you a letter signed by both parties followed shortly by a cheque for the above amount.

signed 

date *Oct 23 2003*

V.A.T. reg No (if applicable) *160 1235 15*



Senior Co-ordinator – Surface Hazards, Southern Region

cc: Mr W Denton – The Coal Authority



JMC Mining Services Ltd
P.O. Box 36, Alfreton
Derbyshire DE55 1NG, ENGLAND
Tel: 01773 830130 Fax: 01773 830230
E-Mail: hazard@jmcms.fsnet.co.uk

Thursday, 20 November 2003

Reference H3790

[REDACTED]

Dear Sir

Re: Reported Mining Hazard at Ashfield House Farm, Hawarden.

I refer to your signed letter to JMC dated 22nd October 2003, regarding your acceptance of £200 in full and final settlement for crop loss and weed control.

Please find enclosed a cheque to the value of £200 in respect of the above.

Please sign and return the enclosed acceptance slip to the above offices in the envelope provided.



[REDACTED]

Senior Co-ordinator – Surface Hazards

cc: Mr W Denton – The Coal Authority
cc: File

Enc

Letter JMC-002

| | | |
|---|-----------------------------|--------------------|
|   | Sheet of Sheets 29 / 282 | |
| | Validity Status | Revision Number |
| | CD-FE | 02 |

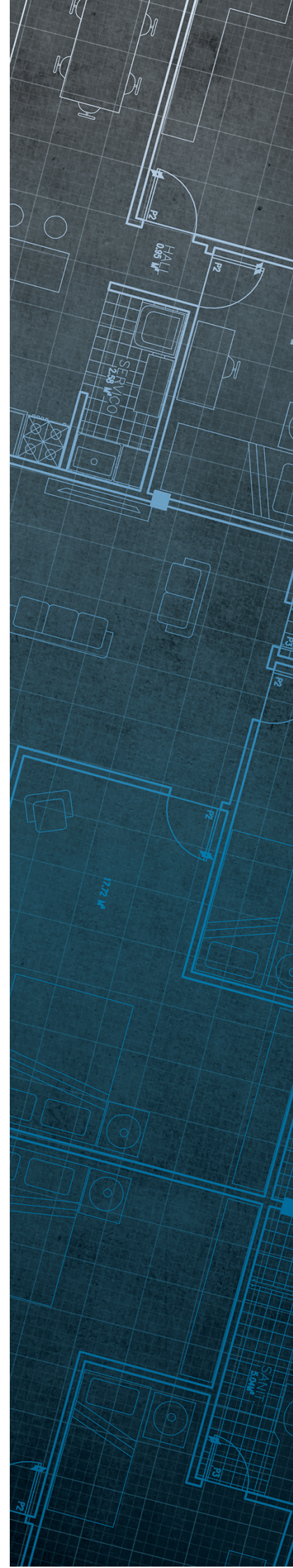
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| Company Document ID 1025H0BGRV09410 |
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Coal Mining Report (Northop Hall to Old Aston Hill) – 510025234473001



Liverpool Bay Ccs
Flintshire

Our reference: 51002524473001
Your reference: Liverpool Bay G&G Desk
Study 1



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

ENI ENGINEERING

Enquiry address

Liverpool Bay Ccs
Flintshire


How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

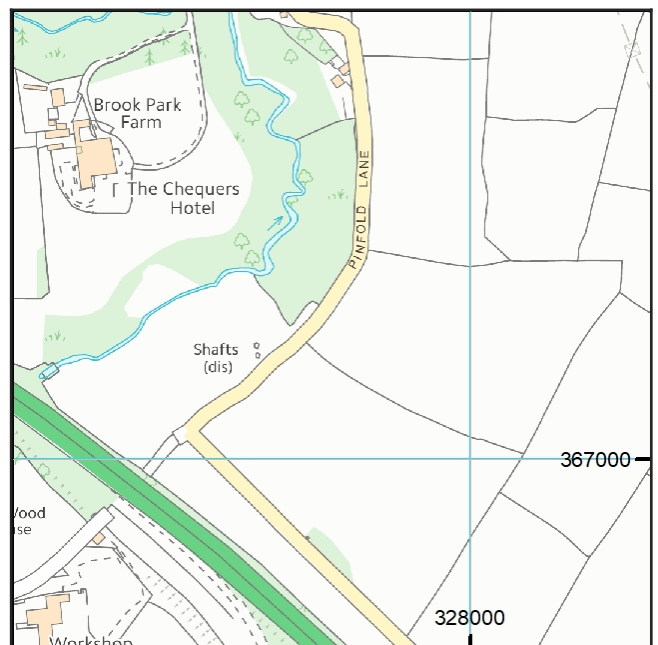
www.groundstability.com

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 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

| Colliery | Seam | Mineral | Coal Authority reference | Depth (m) | Direction to working | Dipping rate of seam worked (degrees) | Dipped direction of seam worked | Extraction thickness (cm) | Year last mined |
|----------|----------------------|---------|--------------------------|-----------|----------------------|---------------------------------------|---------------------------------|---------------------------|-----------------|
| unnamed | PREMIER (LOWER FOOT) | Coal | 3CQN | 6 | Beneath Property | 11.0 | South-East | 120 | 1937 |
| unnamed | HALF YARD / QUEEN | Coal | 3CRW | 12 | Beneath Property | 11.0 | South-East | 50 | 1939 |
| unnamed | QUEEN (BYCHTON 2 YD) | Coal | 3CRW | 12 | Beneath Property | 11.0 | South-East | 50 | 1939 |
| unnamed | HALF YARD / QUEEN | Coal | 3CRX | 12 | Beneath Property | 11.0 | South-East | 50 | 1927 |
| unnamed | QUEEN (BYCHTON 2 YD) | Coal | 3CRX | 12 | Beneath Property | 11.0 | South-East | 50 | 1927 |
| unnamed | PREMIER (LOWER FOOT) | Coal | 3CQM | 14 | Beneath Property | 14.0 | East | 140 | 1949 |
| unnamed | PREMIER (LOWER FOOT) | Coal | 3CR7 | 26 | South-West | 14.0 | East | 140 | 1949 |
| unnamed | HOLLIN | Coal | 37YM | 58 | Beneath Property | 4.0 | South | 180 | 1914 |
| unnamed | PREMIER (LOWER FOOT) | Coal | 3CRB | 68 | South-East | 8.1 | East | 130 | 1906 |
| unnamed | MAIN | Coal | 7H1P | 91 | Beneath Property | 10.3 | South | 250 | 1845 |
| unnamed | HOLLIN | Coal | 37YO | 99 | Beneath Property | 8.0 | South | 180 | 1914 |
| unnamed | MAIN | Coal | 37WS | 106 | South-West | 10.3 | South | 250 | 1845 |
| unnamed | MAIN | Coal | 37W7 | 107 | Beneath Property | 8.0 | South | 200 | 1800 |
| unnamed | MAIN | Coal | 37WX | 111 | Beneath Property | 8.1 | South-East | 250 | 1886 |
| unnamed | HOLLIN | Coal | 37YP | 114 | Beneath Property | 8.0 | South | 180 | 1800 |
| unnamed | HOLLIN | Coal | 7906 | 121 | Beneath Property | 8.1 | South-East | 180 | 1886 |
| unnamed | MAIN | Coal | 37WT | 124 | Beneath Property | 4.0 | South | 250 | 1914 |
| unnamed | MAIN | Coal | 7H1O | 128 | Beneath Property | 10.3 | South | 250 | 1845 |
| unnamed | YARD | Coal | 37T9 | 153 | South | 8.1 | East | 90 | 1906 |
| unnamed | HOLLIN | Coal | 37YK | 170 | South | 5.7 | East | 180 | 1920 |

| Colliery | Seam | Mineral | Coal Authority reference | Depth (m) | Direction to working | Dipping rate of seam worked (degrees) | Dipped direction of seam worked | Extraction thickness (cm) | Year last mined |
|----------|----------------------|---------|--------------------------|-----------|----------------------|---------------------------------------|---------------------------------|---------------------------|-----------------|
| unnamed | PREMIER (LOWER FOOT) | Coal | 3CRA | 182 | South | 8.1 | East | 130 | 1906 |
| unnamed | MAIN | Coal | 7H1S | 198 | South | 11.3 | East | 200 | 1909 |
| unnamed | MAIN | Coal | 7H1T | 213 | South-West | 11.3 | East | 200 | 1914 |
| unnamed | HOLLIN | Coal | 37YL | 214 | South | 8.0 | East | 180 | 1903 |
| unnamed | PREMIER (LOWER FOOT) | Coal | 3CQP | 302 | South-West | 12.5 | East | 140 | 1897 |

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

| Entry type | Reference | Grid reference | Treatment description | Mineral | Conveyancing details |
|------------|------------|----------------|--|---------|----------------------|
| Shaft | 326367-040 | 326685 367701 | | Coal | |
| Shaft | 326367-041 | 326721 367641 | | Coal | |
| Shaft | 326367-042 | 326969 367637 | | Coal | |
| Adit | 327366-235 | 327856 366901 | | Coal | |
| Shaft | 327366-236 | 327869 366871 | | Coal | |
| Shaft | 327367-043 | 327023 367627 | Mine entry treated under Permit 8903, by Drillquest Limited under the supervision of Robert E Fry & Associates Limited acting on behalf of Anwyl Construction Company Limited. The shaft was located following the removal of surface waste material. The location works confirmed that the mine entry was filled to ground level with no visible surface voiding with the site investigations also demonstrating that rock material lay at shallow depth (approx. 2.5m) which could be used for the support of a reinforced concrete cap and therefore the drilling and grouting of the shaft was not undertaken. A 6.2m x 6.2m concrete cap was the constructed comprising a minimum 450mm thick reinforced concrete slab containing 2 layers of 40mm diameter bars at 100mm centres in both directions at the top and bottom of the slab | Coal | |
| Shaft | 327367-044 | 327048 367642 | Mine entry treated under Permit 8903, by Drillquest Limited under the supervision of Robert E Fry & Associates Limited acting on behalf of Anwyl Construction Company Limited. The shaft was located following the removal of surface waste material. The location works confirmed that the mine entry was filled to ground level with no visible surface voiding with the site investigations also demonstrating that rock material lay at shallow depth (approx. 2.5m) which could be used for the support of a reinforced concrete cap and therefore the drilling and grouting of the shaft was not undertaken. A 6.2m x 6.2m concrete cap was the constructed comprising a minimum 450mm thick reinforced concrete slab containing 2 layers of 40mm diameter bars at 100mm centres in both directions at the top and bottom of the slab. | Coal | |
| Adit | 327367-048 | 327737 367118 | The adit was filled to an unknown specification pre 1968 with a surface settlement crater filled in February 1969. | Coal | |

| Entry type | Reference | Grid reference | Treatment description | Mineral | Conveyancing details |
|------------|------------|----------------|--|---------|----------------------|
| Adit | 327367-049 | 327751 367133 | The adit was filled to an unknown specification pre 1968 with a surface settlement crater filled in February 1969. | Coal | |
| Adit | 327367-050 | 327803 367168 | | Coal | |
| Shaft | 327367-051 | 327868 367175 | | Coal | |
| Adit | 327367-052 | 327809 367098 | | Coal | |
| Adit | 327367-053 | 327801 367079 | | Coal | |
| Adit | 327367-234 | 327797 367156 | | Coal | |
| Shaft | 327367-358 | 327012 367636 | Mine entry treated under Permit 8903, by Drillquest Limited under the supervision of Robert E Fry & Associates Limited acting on behalf of Anwyl Construction Company Limited. The shaft was located following the removal of surface waste material. The location works confirmed that the mine entry was filled to ground level with no visible surface voiding with the site investigations also demonstrating that rock material lay at shallow depth (approx. 2.5m) which could be used for the support of a reinforced concrete cap and therefore the drilling and grouting of the shaft was not undertaken. A 6.2m x 6.2m concrete cap was the constructed comprising a minimum 450mm thick reinforced concrete slab containing 2 layers of 40mm diameter bars at 100mm centres in both directions at the top and bottom of the slab. | Coal | |
| Shaft | 328366-179 | 328576 366489 | | Coal | |
| Shaft | 328366-223 | 328487 366599 | | Coal | |
| Shaft | 328366-224 | 328689 366626 | | Coal | |
| Shaft | 329367-062 | 329363 367202 | | Coal | |
| Shaft | 329367-063 | 329444 367019 | | Coal | |
| Shaft | 329367-268 | 329246 367039 | | Coal | |
| Shaft | 329367-269 | 329286 367029 | | Coal | |

Abandoned mine plan catalogue numbers

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

| | | |
|-------|-------|-------|
| 12970 | 3384 | 13434 |
| NW741 | 10867 | 6281 |
| 13433 | R328 | 11222 |

Our records show we have more plans than those shown above which could affect the enquiry boundary.

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 |
|-----------|---------|---------------|-------------------------|----------------------|--------------------|
| MAIN | Coal | Yes | Within | N/A | 257 |

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

Please refer to the "Summary of findings" map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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

| Distance to site investigation (m) | Direction |
|------------------------------------|-----------|
| 48.4 | East |

See Section 4 for further information.

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

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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 in an area where a notice to withdraw support was given in 1944.

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.

Section 4 – Further information

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

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

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.

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.

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.

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.

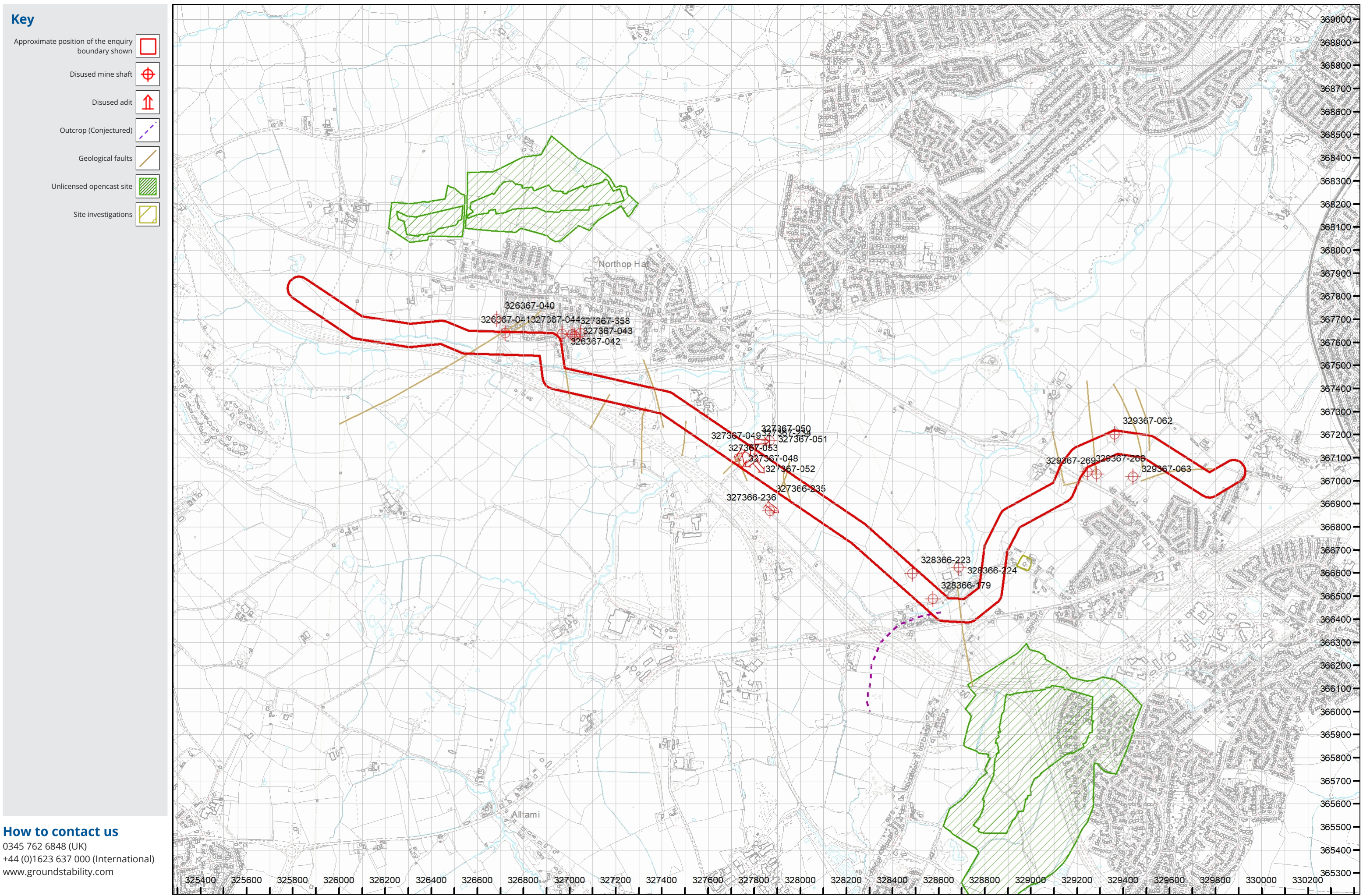
Withdrawal of support notices



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.

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



| | | |
|---|---|------------------------------------|
|   uk progetti | Sheet of Sheets 30 / 282 | |
| | Company Document ID 1025H0BGRV09410 | Validity Status Revision Number |
| | CD-FE | 02 |

Coal Mining Report (Northop Hall off B5125) – 51002987213001



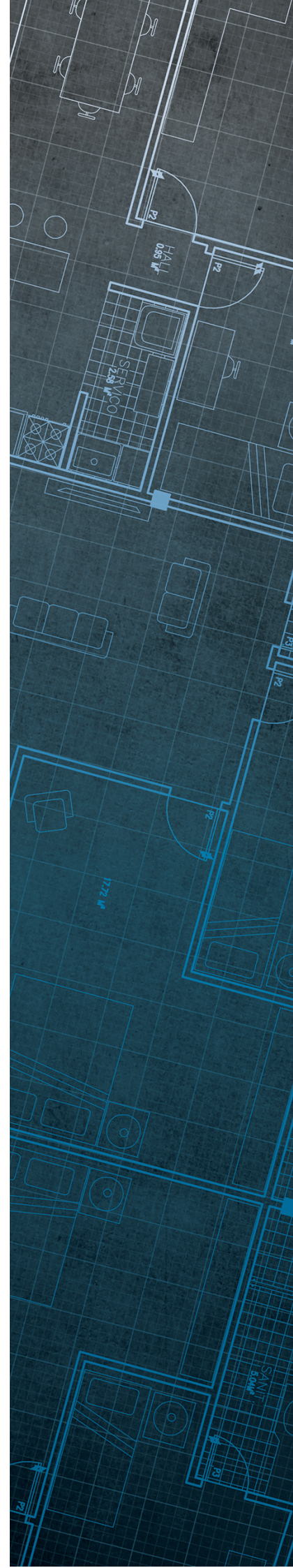
The Coal
Authority

Consultants Coal Mining Report

Liverpool Bay Ccs - Northop Hall
Off B5125 Village Road
Northop Hall
Flintshire
CH7 6HS

| | |
|------------------------|--------------|
| Date of enquiry: | 5 April 2022 |
| Date enquiry received: | 5 April 2022 |
| Issue date: | 5 April 2022 |

| | |
|-----------------|----------------|
| Our reference: | 51002987213001 |
| Your reference: | |



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

ENIPROGETTI

Enquiry address

Liverpool Bay Ccs - Northop Hall
Off B5125 Village Road
Northop Hall
Flintshire
CH7 6HS

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

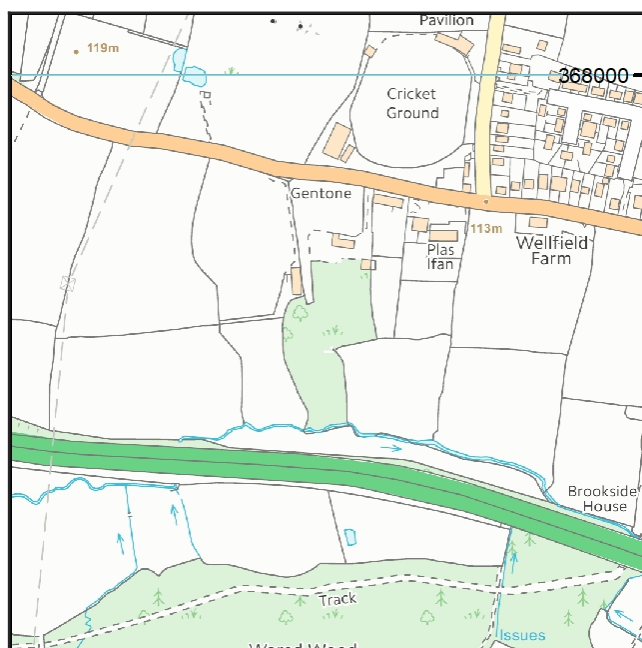


 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

| Colliery | Seam | Mineral | Coal Authority reference | Depth (m) | Direction to working | Dipping rate of seam worked (degrees) | Dipped direction of seam worked | Extraction thickness (cm) | Year last mined |
|----------|--------|---------|--------------------------|-----------|----------------------|---------------------------------------|---------------------------------|---------------------------|-----------------|
| unnamed | HOLLIN | Coal | 37YM | 57 | West | 4.0 | South | 180 | 1914 |
| unnamed | HOLLIN | Coal | 37YO | 80 | Beneath Property | 8.0 | South | 180 | 1914 |
| unnamed | MAIN | Coal | 37WT | 109 | Beneath Property | 4.0 | South | 250 | 1914 |
| unnamed | HOLLIN | Coal | 37YP | 110 | East | 8.0 | South | 180 | 1800 |

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

| Entry type | Reference | Grid reference | Treatment description | Mineral | Conveyancing details |
|------------|------------|----------------|--|---------|----------------------|
| Shaft | 326367-034 | 326376 367798 | The shaft was originally filled to an unknown specification pre May 1968 It was subsequently topped up and covered with a reinforced concrete cap in December 1979. The cap consists of 17m3 of concrete with two R.S.J's and steel mesh set at ground level with marker set on cap. | Coal | |
| Shaft | 326367-035 | 326406 367813 | The shaft was filled to an unknown specification with colliery spoil. It was subsequently covered with a reinforced concrete cap in December 1979. The cap consists of 17m3 of concrete with two R.S.J's and steel mesh set at ground level with a marker set on the cap. | Coal | |

Abandoned mine plan catalogue numbers

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

| | | |
|-------|-------|--------|
| 6281 | 11222 | NW1453 |
| NW335 | 1054 | |

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

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

Please refer to the "Summary of findings" map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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.

Section 4 – Further information

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

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

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.

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.

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.

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.

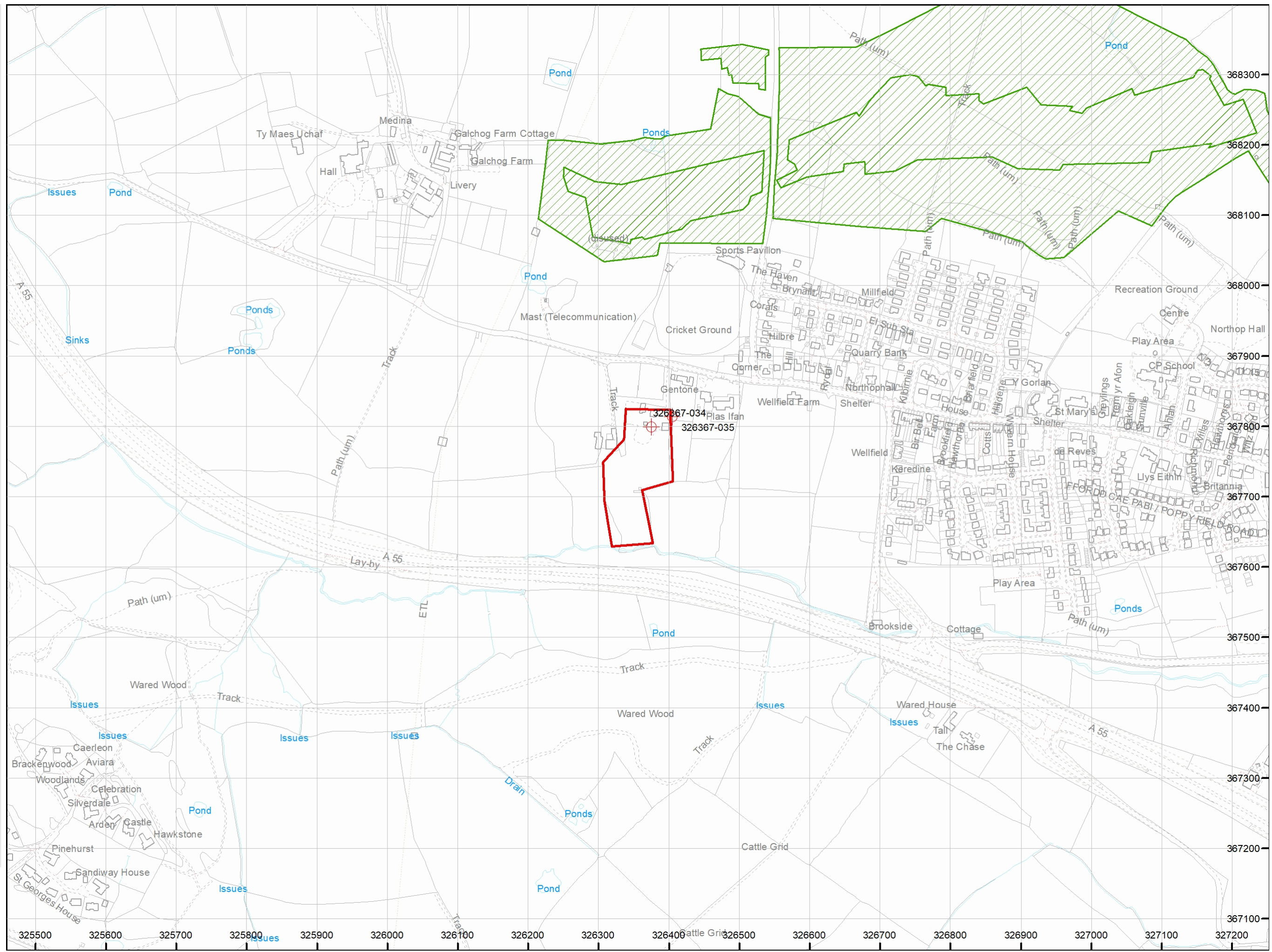
The map highlights any specific surface or subsurface features within or near to the boundary of the site.



Key

- Approximate position of the enquiry boundary shown 
- Disused mine shaft 
- Unlicensed opencast site 

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Maps from the Interactive Viewer on the Coal Authority Website (Accessed on 11th April 2022)