

Neath Port Talbot Council

Abbey Primary School

Coal Mining Risk Assessment



Aug 2023

Version 1

Document Control

Document: Coal Mining Risk Assessment

Project: Abbey Primary School

Client: Neath Port Talbot Council

Job Number: B049900

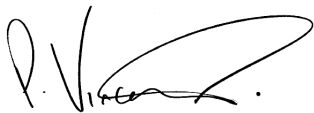
File Origin: \\Lds-dc-vm-101\Data\Projects\784-B049900_Abbey_Primary_School\60 Project
Output\61 Work in Progress\B049900 - Abbey Primary School CMRA V1 Aug 23.docx

Revision: V1

Date: Aug 2023

Prepared by

Checked and Approved By



Paul Vincent BSc (Hons) CGeol EurGeol FGS
Principal Engineering Geologist



Chris Pugh
Head of Ground Investigation UK and
Ireland

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1 Introduction

1.1 Instruction

Tetra Tech Ltd (TT) were commissioned by Neath Port Talbot Council to undertake a Coal Mining Risk Assessment (CMRA) at the site of the Abbey Primary School, Neath Abbey, South Wales.

1.2 Brief

The proposed development is for a new drop off area at the front of the school comprising roadways and parking bays, two small retaining walls to accommodate level variations, and landscaping works including two swales for surface water drainage.

The brief was to prepare a Coal Mining Risk Assessment including the collation of all available site records and subsequent risk qualitative assessment. Provide recommendations for future actions required in order to mitigate any potential risk posed by mining beneath the site.

1.3 Report Scope

This CMRA includes the following key elements;

- Presents all data and information obtained regarding mining beneath the site;
- Assesses the risk to the site from any known mining issues;
- Sets out appropriate mitigation measures (if required) for dealing with any mining issues.

1.4 Limitations

This report has been prepared in accordance with the requirements of Neath Port Talbot Council. It is subject to the report conditions contained in Appendix A.

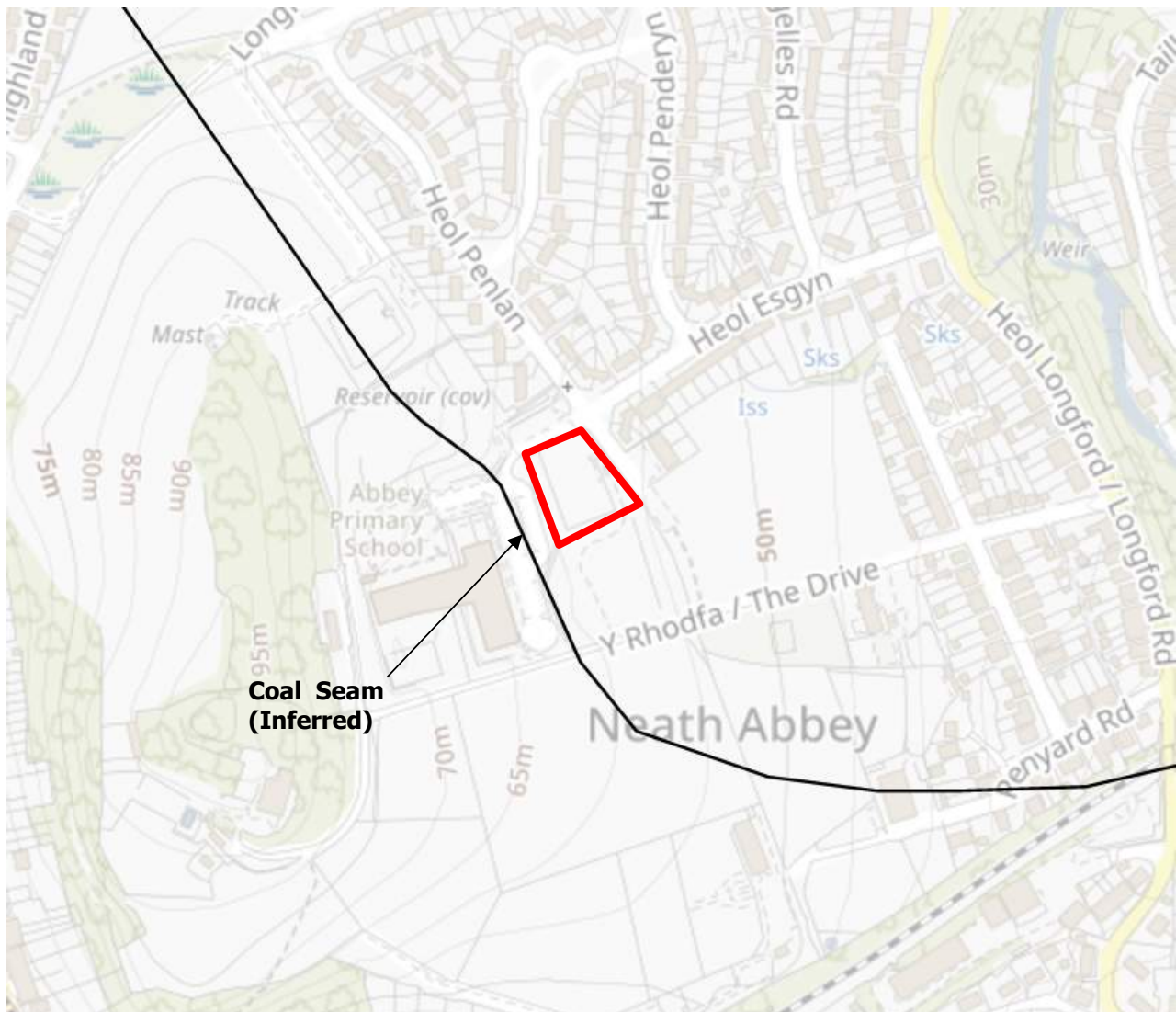
The information contained in this report is intended for the use of Neath Port Talbot Council. Tetra Tech Ltd can take no responsibility for the use of this information by any third party or for uses other than that described in this CMRA.

2 Site Information

2.1 Location

The site is located in Neath Abbey, South Wales centred at National Grid Reference SS 73393 97989. A site location and layout plan are included in Figure 1.

Figure 1: Site Location



2.2 Ground Conditions

All information collated on ground conditions is based on extrapolation from data available on adjacent sites, and from literature sources. In summary, the following data sources have been consulted:

- Coal Authority Report ref. MR- 51003370321001 dated 2nd August 2022
- British Geological Survey 1:50,000 scale mapping, Sheet 247: Swansea
- British Geological Survey 1:10,000 scale mapping, Sheet Glamorgan 15 SE (1905 & 1949)
- British Geological Survey GeoIndex Online Mapping
- British Geological Survey Borehole Database, comprising borehole logs of shafts and borehole records adjacent to the site.

2.2.1 Coal Authority information

A Coal Authority mining report was obtained on 2nd August 2023 and is presented in Appendix B. The findings are summarised below:

- The property is in a surface area that could be affected by underground mining in 5 seams of coal at between 140m and 225m depth, and last worked in 1921. Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

In addition, the property is in an area where the Coal Authority believes there is coal at or close to the surface. This coal may have been worked at some time in the past. The potential presence of coal workings at or close to the surface should be considered, particularly prior to any site works or future development activity, as ground movement could still be a risk.

- The site is not within a surface area that could be affected by probable unrecorded workings.
- The site is not within a surface area that could be affected by shallow spine roads.
- The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods. The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.
- The property is not in an area likely to be affected from any planned future underground coal mining. However, reserves of coal exist in the local area which could be worked at some time in the future.
- No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

- There are no recorded mine entries within, or within 100m of the site boundary.
- The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.
- The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.
- The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.
- 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 31st 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.
- The Coal Authority has no record of a mine gas emission requiring action.
- The site has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.
- 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.
- The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.
- The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

2.2.1.1 Coal Authority Interactive Online Mapping

The Coal Authority interactive online mapping indicated the following:

- The site does fall within a 'Development High Risk Area', (See Figure 2).
- The property is located outside an area of past shallow coal mining workings.
- The property is located outside an area of probable shallow coal mining workings

Figure 2: CA interactive online mapping – development high risk area



2.2.2 British Geological Information

The geology of the site area is covered by:

- British Geological Survey (BGS) 1:50,000 mapping, Sheet No. 247; Swansea Solid and Drift, 2011;

These show the site to be underlain by an area of Landscaped Ground (artificially modified ground) over Glacial Till superficial deposits and solid geology of the Grovesend Formation. The Swansea Four Feet coal seam is indicated to outcrop to the west of the site.

Figure 3: BGS online mapping

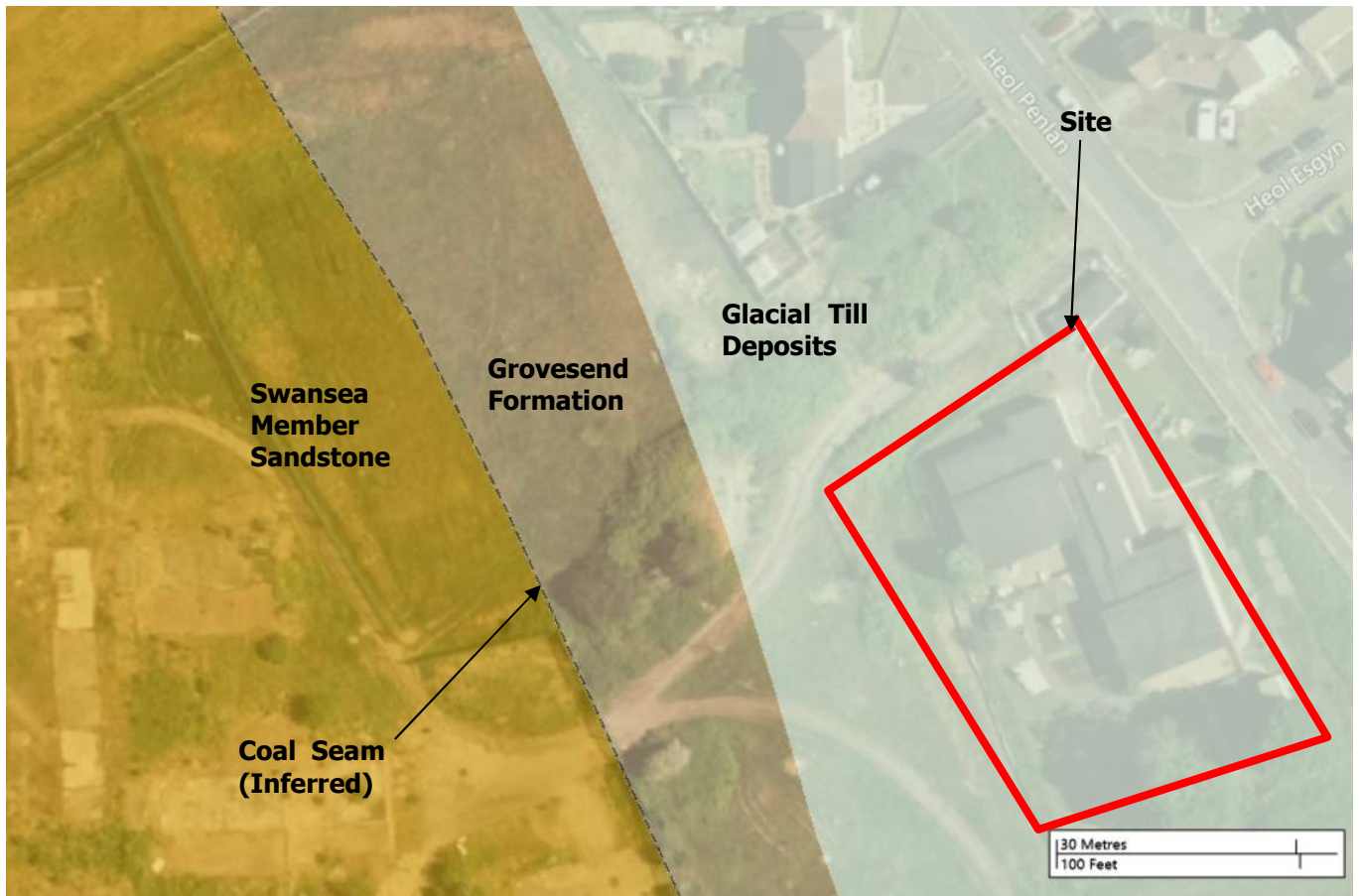


Figure 4 4: Historical BGS online mapping - 1905

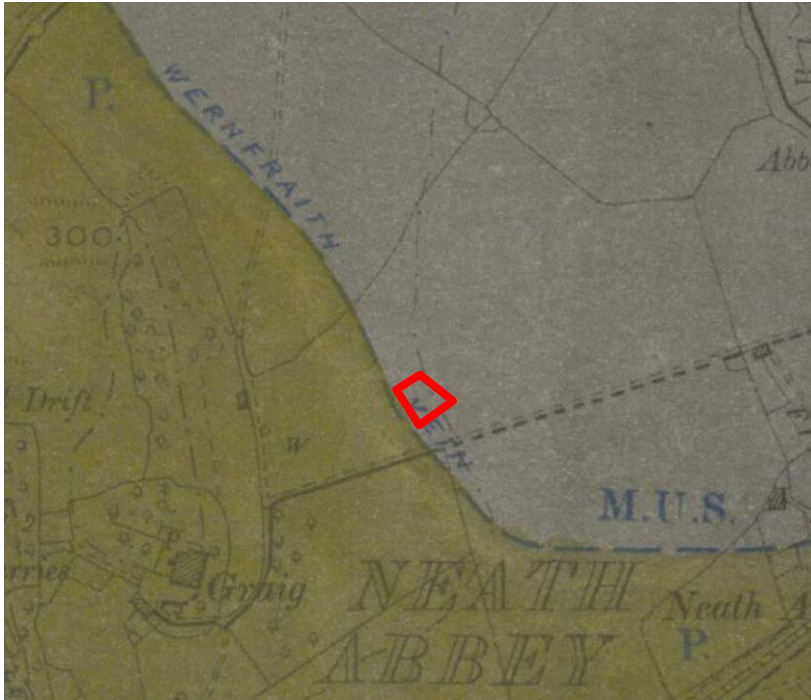
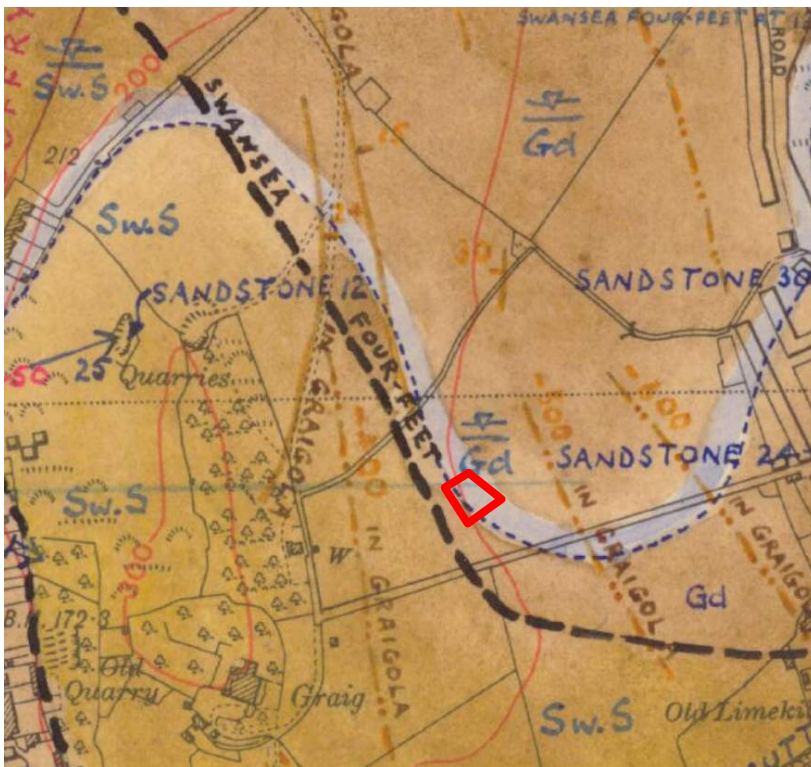


Figure 5: Historical BGS online mapping - 1949



3 Risk Assessment and Mitigation Strategy

The following table summarises the key hazards identified by review of the available data sources, the factors affecting risk posed by each hazard and an assessment of the estimated risk posed to any proposed re-development on the site.

Assessing risks from coal mining is based upon guidance provided by the Coal Authority following a 'risk based' approach implemented through PPG 14 – Development on Unstable Land.

The risk posed has been assessed as one of three categories;

High risk	Based upon the data available there is a significant risk of shallow ground instability associated with coal mining. Investigation will be required as part of the site re-development. Mitigation measures likely to be required.
Moderate risk	Based upon the data available there is a potentially significant risk of shallow ground instability associated with coal mining. Investigation will be required as part of the site re-development. Mitigation measures may be required.
Low risk	Based upon the data available there is a low risk of shallow ground instability associated with coal mining. No further assessment or investigation is recommended.

The table below summarises the potential risks associated with coal mining legacy at the site.

Table 1: Potential Coal Mining Legacy Issues

Coal Mining Legacy	Yes	No	Risk Assessment
Underground mining (recorded)		x	Not required
Shallow (<30m) underground mining (recorded)		x	Not required
Underground mining (unrecorded)		x	Not required
Shallow (<30m) underground mining (unrecorded)	✓		Required
Recorded mine entries (Shafts and adits)		x	Not required
Mining geology	✓		Required
Record of previous mine gas emissions		x	Not Required
Record of coal mining surface hazard		x	Not Required
Surface mining (recorded/unrecorded)		x	Not Required

Based on the information obtained from this assessment, the following risk assessment has been compiled, which identified plausible risks at the site in the context of the proposed end use.

Table 2: Identified Risks and Mitigation

Hazard	Area of site affected	Factors affecting risk	Risk	Mitigation
Unrecorded shallow workings	All of the site	- The development area is categorised as a development high risk area. - The development largely consists of two small retaining walls, and landscaping works with surfacing to form roadways and parking bays with no significant earthworks or structures. - Despite a seam (WernFraith Vein (1905), Swansea 4ft (1949) or Mynyddislwyn Lower Leaf (CA Report) proven to be outcropping close to the western boundary, the CA have classified the risk from unrecorded shallow workings as none. - The site was formerly occupied by a large building with no record of any issues relating to mining legacies.	Low risk	No further action at this stage is considered necessary.

4 Conclusion and Recommendations

The mining risk assessment indicates that there is a **low risk** of ground instability as a result of recorded unrecorded shallow mining at the site.

- The development consists of two small retaining walls, and landscaping works with surfacing to form roadways and parking bays with no significant earthworks or structures.
- The site is categorised as having no risk of unrecorded shallow working by the Coal Authority.

No further action at this stage is considered necessary.

Appendices

Appendix A – Report Conditions

APPENDIX A - REPORT CONDITIONS GROUND INVESTIGATION

This report is produced solely for the benefit of Neath Port Talbot Council and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site.

This report is based on a visual site inspection, reference to accessible referenced historical records, information supplied by those parties referenced in the text and preliminary discussions with local and Statutory Authorities. Some of the opinions are based on unconfirmed data and information and are presented as the best that can be obtained without further extensive research. Where ground contamination is suspected but no physical site test results are available to confirm this, the report must be regarded as initial advice only, and further assessment should be undertaken prior to activities related to the site. Where test results undertaken by others have been made available these can only be regarded as a limited sample. The possibility of the presence of contaminants, perhaps in higher concentrations, elsewhere on the site cannot be discounted.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, being subject to risk analysis, we are unable to give categoric assurances that they will be accepted by Authorities or Funds etc. without question as such bodies often have unpublished, more stringent objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to Tetra tech Ltd. In time improved practices or amended legislation may necessitate a re-assessment.

The assessment of ground conditions within this report is based upon the findings of the study undertaken. We have interpreted the ground conditions in between locations on the assumption that conditions do not vary significantly. However, no investigation can inspect each and every part of the site and therefore changes or variances in the physical and chemical site conditions as described in this report cannot be discounted.

The report is limited to those aspects of land contamination specifically reported on and is necessarily restricted and no liability is accepted for any other aspect especially concerning gradual or sudden pollution incidents. The opinions expressed cannot be absolute due to the limitations of time and resources imposed by the agreed brief and the possibility of unrecorded previous use and abuse of the site and adjacent sites. The report concentrates on the site as defined in the report and provides an opinion on surrounding sites. If migrating pollution or contamination (past or present) exists further extensive research will be required before the effects can be better determined.

Appendix B – Coal Authority Report



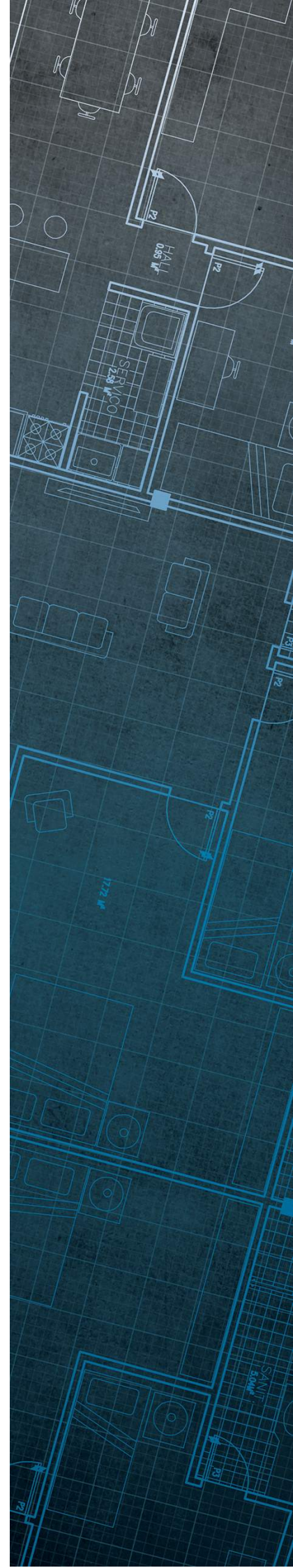
The Coal
Authority

Consultants Coal Mining Report

Abbey Primary School
Heol Penlan
Longford
Neath Port Talbot
SA10 7LB

Date of enquiry:	2 August 2023
Date enquiry received:	2 August 2023
Issue date:	2 August 2023

Our reference:	51003370321001
Your reference:	7012210



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

WYG

Enquiry address

Abbey Primary School
Heol Penlan
Longford
Neath Port Talbot
SA10 7LB

How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

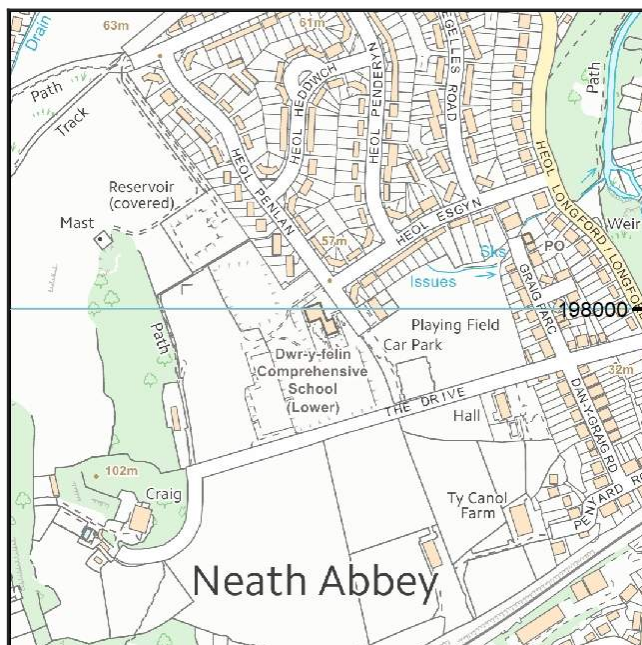
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

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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	SWANSEA 6FT	Coal	4DKB	140	South-West	15.1	North-East	170	1915
unnamed	UNNAMED	Coal	4DKE	197	South-West	15.2	North-East	205	1915
unnamed	SWANSEA NO.3	Coal	4H6T	199	North-West	30.9	East	109	1918
unnamed	SWANSEA NO.3	Coal	4DK7	204	Beneath Property	14.0	North-East	109	1920
unnamed	SWANSEA NO.3	Coal	4DK8	221	East	11.8	North-East	109	1921
unnamed	SWANSEA NO.3	Coal	4H6U	225	North-East	14.9	East	109	1921

Probable unrecorded shallow workings

None.

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:

R10961	SWR1927	SWR1671
8160	7385	SW1929
10294	R12052	12494

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
MYNYDDISLWYN LOWER LEAF	Coal	Yes	1.4	South-West	156

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.

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
12.4	West
Within	N/A

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 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.

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.

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. 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.

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.

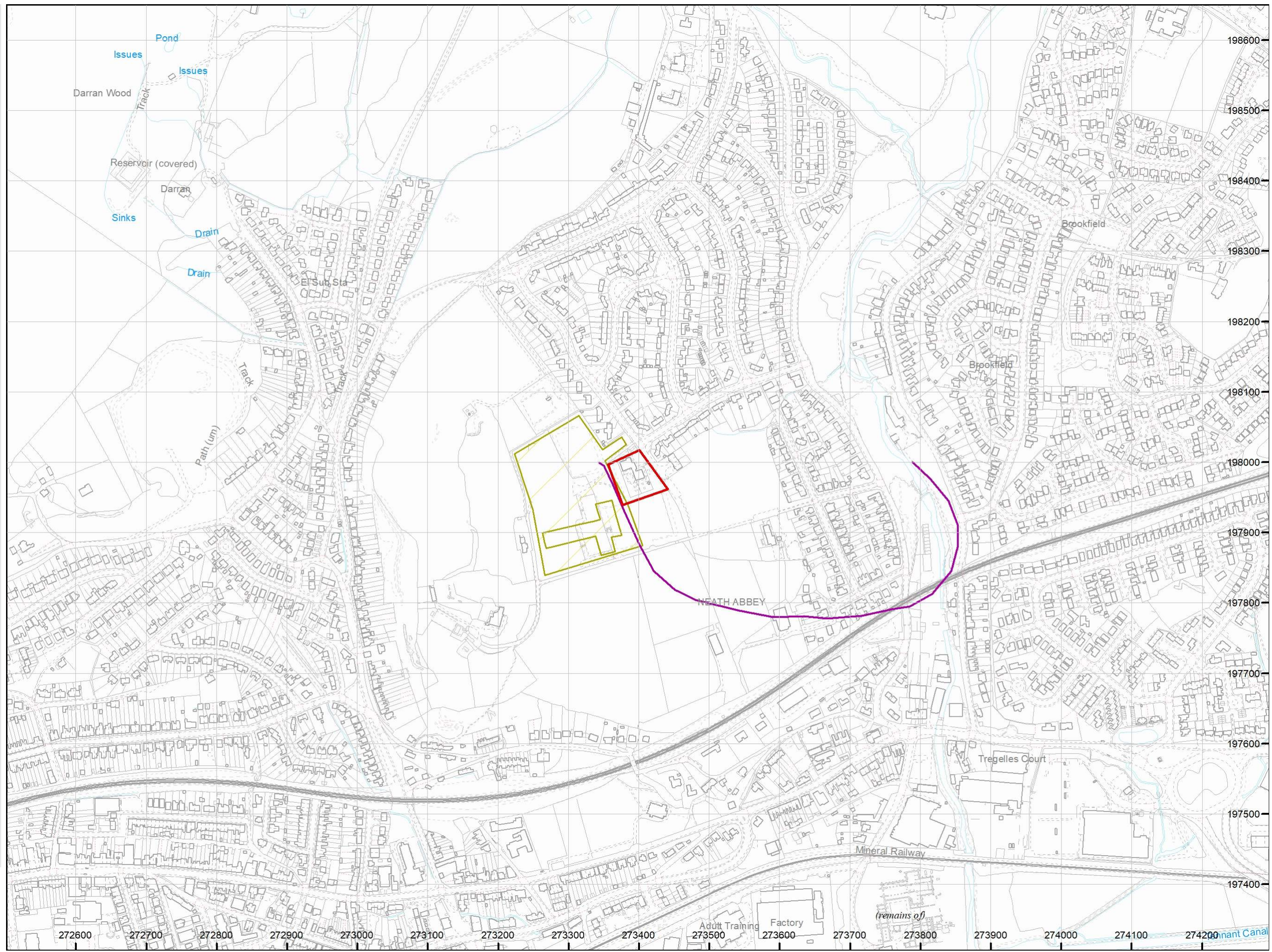
Key

Approximate position of the enquiry boundary shown 

Outcrop (Proven) 

Site investigations 

How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com



Appendix C – Development Plan

T47650 / GA / 0101

Dwg. No.

ABBAY PRIMARY SCHOOL - NEW DROP OFF AREA - GENERAL ARRANGEMENT

Job Title

LAYOUT PLAN
SCALE 1:200



EXISTING SCHOOL RETAINING WALL

EXISTING drop off area to remain unaffected

New RETAINING WALL 'B', max height 1.25m between footway and car park with 1.4m high pedestrian guardrail on top
See Dwg T47650 / XS / 0001 for details, colour and style to match existing school walls

Proposed uncontrolled pedestrian crossing point from new car park to existing school footway

Existing pedestrian guardrail to remain, new opening to be created at proposed crossing point

New RETAINING WALL 'A', max height 1.45m with 1.4m high pedestrian guardrail on top
See Dwg T47650 / XS / 0001 for details, colour and style to match existing school walls

Circulatory one way system around car park for pedestrian safety

Central connecting footway with pedestrian priority over vehicles

Existing gabion retaining wall to remain unaffected

New anti climb security boundary fence to tie-into existing security fence as shown

existing security fencing

proposed Swale: SUDs requirement, surface water treatment at source

proposed 2.1m high anti climb security boundary fence, colour and style to match existing school fence



EXISTING SCHOOL BOUNDARY FENCE

Re-positioned uncontrolled pedestrian crossing point

Landscaping / Tree planting Biodiversity mitigation area to receive a native, wildlife friendly meadow seed mix and managed for pollinators, trees to be planted as mitigation for loss of existing trees, see drawing T47650 / LS / 2601 for full details

Existing residents parking bay to remain unaffected

proposed Swale: SUDs requirement, surface water treatment at source

Proposed carriageway widening

Dedicated new entrance to proposed drop off area to alleviate congestion at main school access

Existing redundant nursery car park

New Drop off Area Access Junction Visibility sight line

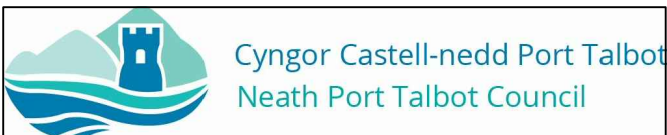
New security access gate

- NOTES
1. All dimensions are in millimetres unless otherwise stated.
- EXISTING CARRIAGEWAY
 - PROPOSED CAR PARK
 - PROPOSED 3m WIDE FOOTWAY
 - PROPOSED CARRIAGEWAY WIDENING
 - PROPOSED LANDSCAPING / TREE PLANTING BIODIVERSITY MITIGATION AREA
 - PROPOSED HIGHWAY EMBANKMENT
 - PROPOSED EMBANKMENT FILTER DRAIN
 - BIODIVERSITY MITIGATION REPLACEMENT TREES TO BE PLANTED
 - EXISTING 2.1m HIGH ANTI CLIMB SECURITY BOUNDARY FENCE
 - PROPOSED 2.1m HIGH ANTI CLIMB SECURITY BOUNDARY FENCE, COLOUR AND STYLE TO MATCH EXISTING SCHOOL FENCE
 - PROPOSED PEDESTRIAN GUARDRAIL
 - PROPOSED RETAINING WALLS - max height 1.45m with 1.4m high pedestrian guardrail installed on top
 - PROPOSED SECURITY GATES
 - PROPOSED CONCRETE STRIP AND BOLLARDS
 - JUNCTION VISIBILITY LINE OF SIGHT
 - PROPOSED UNCONTROLLED PEDESTRIAN CROSSING POINT
 - PROPOSED SWALE: SUDs REQUIREMENT, SURFACE WATER TREATMENT AT SOURCE

Proposed new drop off area will provide 45 new spaces

Rev	Details	Dr	Ch	Ap	Date

Client



ENGINEERING AND TRANSPORT

NICOLA PEARCE BSC (Hons), Dip TP, MRTPI
DIRECTOR OF ENVIRONMENT AND REGENERATION
THE QUAYS, BRUNEL WAY
BAGLAN ENERGY PARK
NEATH SA11 2GG

Job Title

ABBAY PRIMARY SCHOOL

PROPOSED DROP OFF AREA: GENERAL ARRANGEMENT

File No.		Financial Code No. 11/007500/B051/110058			
Drawn	AAI	Checked	MCB	Approved	HHH
Date	MAY '22	Date	MAY'22	Date	MAY'22
Scales	As Shown		Status	PLANNING	
Drawing No.		T47650 / GA / 0101			