RE-DEVELOPMENT OF THE PADDOCK, DYFFRYN CLYDACH, NEATH, SA10 7BQ

Preliminary Risk Assessment

Report No. Q0759 November 2023

DOCUMENT CONTROL

Contract Name:	**Re-Development of The Paddock, Dyffryn Clydach, Neath, SA10 7BQ**
Contract Reference:	**Q0759**
Report Type:	**Preliminary Risk Assessment**
Report Reference:	**Q0759/PRA/R1**
Date of Report:	**November 2025**
Client:	**MM Design**

Version:	Date:	Prepared by:	Checked by:	Approved by:
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FOREWORD

The following Conditions and Notes on Site Investigation Procedures should be read in conjunction with this report.

The recommendations made and opinions expressed in the report are based upon the study of historical Ordnance Survey maps of the area, GroundSure® Insight Report, and geological maps where available.

Where other plan sources, and published data are considered, these are specifically referred to in the text.

We regret that no responsibility can be held for conditions, which have not been revealed by the plan sources referred to. Whilst the report may suggest the likely configuration of strata below the site, this is only indicative and no liability can be accepted for its accuracy.

1.0 INTRODUCTION

1.1 General

Upon the instructions of MM Design, Quantum Geotechnic Ltd (QGL) has been commissioned to undertake a Phase 1 Preliminary Risk Assessment on a parcel of land known as The Paddock at Dyffryn Clydach for residential re-development.

The site location and proposed development is indicated on the plans included in Appendix I.

This report presents a desk-based assessment of the setting of the site to derive a conceptual site model (CSM) to identify and assess any potential geo-environmental and geotechnical risks or hazards that could constrain the development of the site for the intended purpose.

General notes on the techniques employed by Quantum Geotechnic Ltd are described in the Foreword together with the limitations inherent in this type of work.

1.2 Purpose

The purpose of the desk study is to provide a preliminary assessment of the land quality and assess the site's suitability for development in terms of its geotechnical and geo-environmental setting. This report aims to achieve this by providing the following points:

- An early indication of possible land quality issues that could impact on the development proposals;
- A conceptual model of the site detailing potential contamination source pathways and receptors;
- A geotechnical and geo-environmental appraisal of any issue highlighted and its significance;
- Recommendations on further steps to allow the development of the site.

1.3 Scope

In order to achieve its objectives, this study compiles a range of information pertinent to the development site. This targets its locality and includes archival and current data from the following sources:

- Historical and recent Ordnance Survey maps, geological maps and environmental information
- Site specific database searches provided by Groundsure *Enviro+Geo-Insight* Report
- British Geological Survey Website
- Natural Resources Wales Website

The Report does not extend to providing advice on mining, flooding or ecological matters.

2.0 SITE DETAIL

2.1 Site Setting

The site under review lies in the village of Dyffryn Clydach, Bryncoch, some 3km to the north of Neath town centre. The overall site is triangular in shape with the existing house in the northern part of the site.

The approximate National Grid Reference of the site is 273700E 199880N.

The extent of the site is indicated on the Client's site plan included in Appendix I. The overall site area covers around 0.65 hectares.

The site is relatively flat, predominantly laid to lawn with trees bordering the west and east sides of the site.

An aerial view of the site from current on-line mapping is presented below, (approximately outlined in yellow dashed line). Aerial photographs of the site are also included in the Groundsure report presented in Appendix III dating from 2000 to 2020.

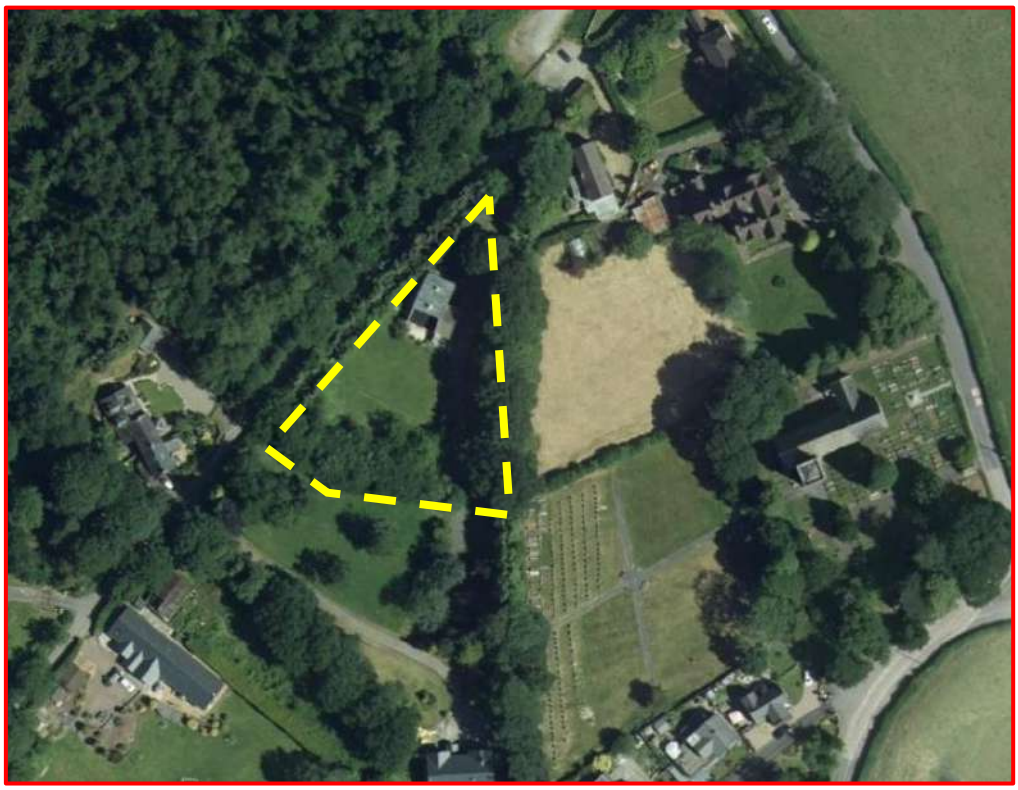


Figure 1: Aerial Image of Site ©2021 Microsoft

3.0 GEOLOGY & SITE HISTORY

3.1 Published Geology

Details of the geology of the overall site are provided by the British Geological Survey (BGS) Sheet SS79NW at 1:10,560 scale, and the BGS's on-line resource Geology of Britain Viewer.

The geological map indicates the site to be mantled by superficial deposits comprising Glacial Till (boulder clay). The extent of superficial deposits is indicated within Section 15.4 of the Groundsure Report (Appendix III).

The solid geology underlying the site is indicated to consist of strata from the Grovesend Formation of the Upper Pennant, Upper Coal Measures. These strata are predominantly mudstones, siltstone and sandstone. Productive coal seams are also present

The Little Bryncoch coal seam is mapped outcropping some 300m east of the site. Information is scant as to the dip and strike of the strata at the surface is scant on the geological map, but form seam contours detailed in coal seams at depth, the strata appear to be dipping generally towards the north.

The Cwm Felin Fault courses in a north-south direction to the west of the site. The hade of the fault is mapped in the workings of the Graigola seam at depth.

An extract of the geological map is presented below for reference, with the site location highlighted.

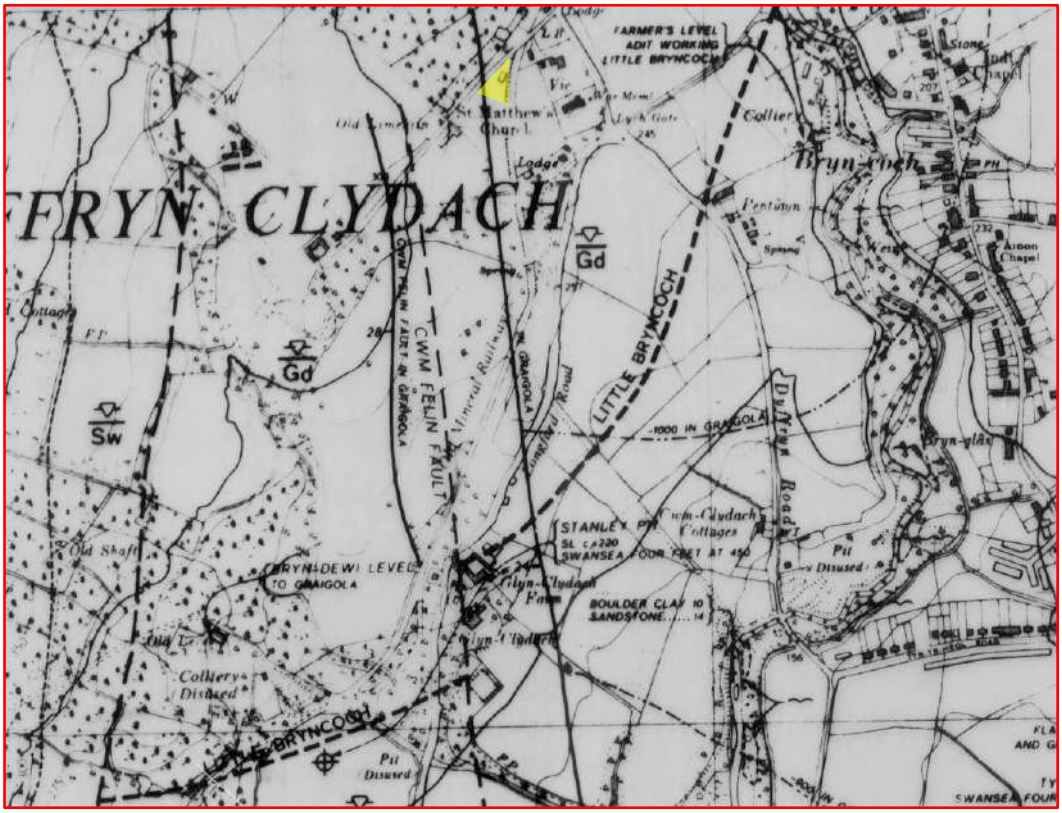


Figure 2: BGS Sheet SS79NW Extract ©NERC [Not to Scale]

Further information on the site geology is included in Section 15 of the *Groundsure Enviro+Geo Insight* Report.

3.2 Site History

A review of the site history has been undertaken based on archive and recent maps at scales of 1:1,250, 1:2,500 and 1:10,560/1:10,000 provided by GroundSure and presented in Appendix II.

A summary of the details of the past site usage from both scales of Ordnance Survey maps at the largest scale is provided in Table 1.

Table 1: Historical Mapping Review

Map Edition	Observations
1879	The 1st Edition survey shows the site to be woodland. Just within the eastern boundary of the site is a Tramway line on / within a shallow cutting, serving Dyffryn Main Colliery to the north. An Old Limekiln is located to the south of the site. St. Matthews Church is located farther to the east.
1899	No material change to the site is shown by the 2nd edition survey. Further dwellings have been built associated with the Church.
1918	No change s indicated to the site by 1918. An Old Coal Shaft is detailed some distance to the north of the site, with associated spoil heaps and a small rail siding is shown just north of the site.
1936	The survey of the site published in 1936 shows the woodland on the site to have been cleared. The Tramway bounding the site appears to be un-used, with no track detailed and the line being curtailed just north of the site.
1964-65	By 1964 the existing house on the site has been constructed. The Tramway is no longer detailed long the eastern site boundary. Some development of houses beyond the site boundary has taken place.
1989-93	No change has taken place on the site. Some minor residential development of the area has taken place.
2003	No change has taken place.

The Groundsure report (pages 8 to 12, Appendix III) also presents a series of aerial photographs of the site from the year 2000 to 2020.

4.0 GROUNDSURE DATASETS REVIEW

4.1 General

As part of the risk assessment, a combined environmental and geological/ground stability report has been obtained from GroundSure® which compiles the results of a current on-line database search using a range of national resources and datasets.

The Geo+Enviro Insight® report (Report Ref: HMD-213-8541162) provides details on the geology of the site as well as information relating to ground workings in the area of the site, mining, extraction, natural cavities and natural ground subsidence. It also provides details on site specific environmental issues including pollution incidents, discharge consents, flooding issues and any areas of significant contamination potential as well the risk to any existing or planned properties from the underlying ground conditions.

A summary and review of the data collected from within this report is detailed in the following sections. A full copy of the document sourced from GroundSure® is included in Appendix III.

4.2 Data Review

4.2.1 Past Land Use

Two past *Historical Industrial Land Use* entries are recorded on the site; a *Mineral Railway Sidings* and *Old Lime Kiln*. The Lime Kiln is mapped approximately 50m from the proposed development area. These are adjacent to, abutting, the site rather than on the development site under review. There are multiple entries of *Historical Industrial Land Uses* close to, but not on, the site related to the rail sidings, spoil heaps and mining related features.

No records of *Historical Tanks, Historical Petrol Stations, Historical Garages* or *Military Land* are listed within influencing distance of the site. Two *Historical Energy Features* are detailed: A *Gasometer* some 220m south west of the site from OS mapping is the closest feature and an *Electricity Substation* over 460m east of the site.

4.2.2 Waste and Landfill

There are no *Active* or *Recent Landfill* recorded on or within 500m of the site; no *Historical Landfill* (from BGS, EA/NRW and LA records), *Historical Waste Sites* or *Licensed Waste Sites*.

There are two records of a *Waste Exemption,* but c.450m distant from the site.

4.2.3 Current Industrial Land Use

The report identifies one *Recent Industrial Land Use* within 500m of the site; being an electrical appliance servicing business some 60m to the north.

There are no *Current or Recent Petrol Stations* or *Electricity Cables* recorded within 500m of the site. A high-pressure *Gas Pipeline* is present 486m north west of the site boundary.

There are no sites determined as 'Contaminated Land' on or within 500m of the site under the Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

Several *Licenced Discharge to Controlled Waters* entries are noted, but these are over 150m from the site. A total of seven *Pollution Incidents* are recorded, the closest being an insulating and cable oils incident 42m from the site classed as 'Minor'. The remainder of entries are predominantly classed as 'Minor' or 'No impact'.

4.2.4 Hydrogeology

The Groundsure report indicates that the superficial soil deposits are a 'Secondary Undifferentiated' Aquifer. In general, these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.

Bedrock on site has been identified as a 'Secondary A' aquifer which is described as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one-kilometre square grid is presented. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

The characterisation of vulnerability to groundwater by a pollutant discharged at ground level is recorded in the Groundsure report within the bedrock is classed as '*Medium'*.

There are no *Groundwater Abstractions recorded* within 2,000m of the site.

Two licensed *Surface Water Abstractions* are recorded of the same feature, but 1.2km north of the site.

There are no *Potable Water* abstractions noted within 2,000m of the site.

The site does not lie within a *Source Protection Zone*.

4.2.5 Hydrology

The searches record no *Surface Water Features* on the site.

The site lies within the *Surface Water Body Catchment* as defined by the Water Framework Directive (WFD) as a 'River Catchment' of the River Clydach. It also falls within a WFD *Groundwater Body* area owing to the underlying Coal Measures bedrock.

4.2.6 River and Coastal Flooding

The risk of flooding from rivers and/or the sea (RoFRaS) of the site can be classified as low.

There are no records of *Flooding from Rivers and the Sea*, nor any *Historical Flood Events*. The site benefits from no *Flood Defences,* or *Flood Storage Areas*.

The site does not lie within a *Flood Zone*.

4.2.7 Surface Water Flooding

The site is modelled to be at *Negligible* risk from surface water flooding. The highest risk within 50m of the site is a 1 in 30-year event.

4.2.8 Groundwater Flooding

The potential for groundwater flooding, caused by unusually high groundwater levels, is classed as *Low*.

4.2.9 Environmental Designations

The site does not lie within 2,000m of a *Ramsar* site or *Special Protection Area* (SPA) or a *Special Area of Conservation* (SAC). A *Site of Special Scientific Interest* (SSSI) is recorded over 1,900m from the site (Fforest Goch Bog).

Of the remainder of schedule of Environmental Designations listed, no records are detailed with the exception of *Designated Ancient Woodland*; with multiple entries, the closest being 6m north west of the site.

4.2.10 Visual and Cultural Designations

Of the schedule of Visual and Cultural Designations listed, four entries are recorded as *Listed Buildings*, the closest being Swiss Gables just north of the Church of St. Matthew approximately 60m to the south east.

4.2.11 Agricultural Designations

The site area falls between Grade 3a 'moderate quality agricultural land' and Grade 5 'very poor quality agricultural ground'.

4.2.12 Habitat Designations

There are no records in relation to Habitat Designations.

4.2.13 Geology

Records of the geology on site are listed at a scale of both 1:10,000 and 1:50,000.

Made Ground is recorded on the site, as an *Artificial Deposit,* which appears to be associated with the route of the Mineral Railway shown within the historic mapping on / within the eastern site boundary.

The superficial geology is recorded on the site, as noted in Section 3.1, as Glacial Till (Diamicton).

There are no records of *Landslip* within 500m of the site.

The bedrock on the site is recorded as the *Grovesend Formation*; mudstone, siltstone and sandstone. The fault and coal seam outcrop noted in Section 3.1 is detailed.

The 1:50,000 mapping records the superficial deposit permeability as ranging between 'High' and 'Low'.

4.2.14 Boreholes

British Geological Survey holds no borehole records close to the site.

4.2.15 Natural Ground Subsidence

The Groundsure report identifies a range of *Natural Ground Subsidence* datasets supplied by the BGS. Each hazard has a 'hazard rating' and corresponding description which are summarised in Table 2 over page.

Table 2: On Site Natural Ground Hazard Summary

Hazard	Hazard Rating	Details
Shrink - Swell Clays	Very Low	Ground conditions predominantly low plasticity.
Running Sands	Very Low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises quickly.
Compressible deposits	Negligible	Compressible strata are not thought to occur.
Collapsible deposits	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
Landslides	Very Low	Slope instability problems are not likely to occur.
Soluble Rocks	Negligible	Soluble rocks either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

4.2.16 Mining, Ground Works and Natural Cavities

No natural cavities are recorded to be present on site.

Three *Pits* are recorded from the Groundsure searches within 500m of the site. The closest is Dyffryn Main Colliery 100m north of the site.

Surface Ground Workings are reported as the Grave Yard of St. Matthews Church with multiple entries of *Unspecified Heaps* or *Ground Workings* in the wider area.

There are *Underground Workings* reported; the closest being approximately 100m north of the site as 'Old Coal Shafts'.

There are no *Historical Mineral Planning* notices, *Non-Coal Mining* features, *Mining Cavities* recorded within 1,000m of the site.

The site is unaffected by *Tin Mining* and does not lie in areas where *Gypsum, Clay* or *Brine* may be extracted.

Coal Mining is flagged up as being present on site as the site is located within a coal mining area as defined by The Coal Authority.

4.2.17 Radon Data

The report states that the property is in area where less than 1% of properties are estimated to be above *Radon Action Level*. This indicates that the site location is within an area not requiring Radon Protection measures

4.2.18 Estimated Background Soil Chemistry

The report identifies records of the estimated background soil chemistry on the overall site. A summary of these records is presented in Table 3.

Table 3: Estimated Geometric Mean Soil Concentrations (all figures in mg/kg)

Location	Arsenic (As)	Bio accessible Arsenic	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)	Bio accessible Lead
On site	35 - 45	No Data	3.0 – 6.0	60-90	30 - 45	100	60

4.2.19 Railways Infrastructure and Projects

Within the 'Railways Infrastructure' listings, the *Mineral Railway Sidings* are noted on the site. No other railway infrastructure, such as tunnels, is indicated.

4.3 Data Review Summary

From review of the geo-environmental data collected from all sources (including geology, site history and the Groundsure report), only one feature has been identified regarding land uses or site setting within the locality that may constitute a potential risk to the development of the site for its intended use without management or mitigation measures; namely the historical railway track/sidings that abut the site boundary.

5.0 RISK ASSESSMENT

5.1 Legal Framework for Contaminated Land

Under Part 2A of the Environmental Protection Act 1990, contaminated land is defined as the presence of substances in, on, or under the land in which significant harm or pollution to controlled waters is being caused, or there is significant possibility of such harm or pollution to controlled waters being caused.

Under the Planning regime, land contamination is therefore a material consideration. A Local Authority has the duty to consider potential implications of contamination when it is considering applications for planning permission. A planning authority may require investigations to be undertaken where there is potential contamination or contamination is known to exist at a site before granting planning permission. Alternatively, planning permission may be conditional requiring appropriate investigation and, if necessary, remediation.

The potential risks to this development have been assessed by consideration of the potential contaminant linkages (PCLs) in accordance with DEFRA 2020 Land Contamination Risk Management (LCRM) guidance. LCRM enables the application of a risk management process for identifying and remediating contamination through a technical framework.

For a risk to exist there must be a source of contamination, a receptor that may be harmed, and a pathway by which the receptor could be exposed to the contaminant. Only when all three factors are present can a contamination linkage, and consequently an unacceptable risk, exist. A conceptual site model (CSM) considers all three elements and the potential for contaminant linkages that may exist for the site, including:

- Potential sources of contamination on-site and off-site;
- Potential pathways between sources and receptors, natural or man-made;
- Receptors such as humans, controlled water, ecological systems, and property.

The following assessment hierarchy, as provided in the LCRM, is followed to assess the risks to human health and controlled water:

- Tier 1: Preliminary Risk Assessment, including preliminary CSM;
- Tier 2: Generic Quantitative Risk Assessment, using appropriate Generic Assessment Criteria (GAC);
- Tier 3: Detailed Quantitative Risk Assessment, using derived Site-Specific Assessment Criteria (SSACs).

This Preliminary Risk Assessment presents the Tier 1 level approach.

5.2 Conceptual Site Model

The preliminary Conceptual Site Model (CSM) is a representation of the current understanding of the site and its surrounding environment with regards to geology, groundwater, surface waters, and potential contamination on-site and adjacent off-site and any migration pathways.

The potential risks to the proposed development and adjacent land have been assessed by consideration of the potential pollution linkages. For a risk to exist there must be a source of contamination, a receptor that may be harmed, and a pathway by which the receptor could be exposed to the contaminant. Only when all three factors are present (i.e., source-pathway-receptor) can a pollution linkage, and consequently an unacceptable risk, exist. The CSM considers all three elements and the potential for pollution linkages that may exist. If no

linkage is identified, then there is considered to be no or negligible risk.

The CSM has been developed for the proposed end use of this site as a residential development. Each factor has been assessed in terms of its relative position (on-site/off-site).

Sources

The majority of the site itself has been demonstrated to effectively be a 'greenfield' site, being woodland prior to construction of the existing house.

The eastern site boundary have been identified as having a Tramway on / within the eastern site boundary which coincides with a mapped zone of artificial ground. The nature of this artificial ground is unknown and may contain elevated contaminant concentrations.

The 'site' has also been identified to have formerly had a railway track/siding with a coincident boundary. This is reflected in the searches as being 'on site' although the re-development proposed will not impinge on the eastern boundary of the site.

Nevertheless, this does present a potential source of contamination that may affect the site.

The southern section of the site, which is understood does not comprise this proposed development area, is adjacent to an historic Lime Kiln. Made Ground associated with the Line Kiln is mapped to encroach slightly within the southern boundary of the southern section of the site.

No other former uses features have been identified from the data searches that could constitute a source of risk to the proposed end use of the site.

Pathways

The sources identified have to be able to affect the receptors in some way and typically fall into the following categories assessed for this site:

- Direct contact – including dermal contact and ingestion
- Surface Waters – flows from flooding events
- Leaching of contaminants into groundwater and controlled waters
- Consumption by / effect on planting

Receptors

Considering the proposed residential end use, a number of receptors have been identified to be potentially at risk during and subsequent to the proposed development on-site: Site workers, end users, groundwater; and in the surrounding areas off-site: Controlled waters.

These can be summarised in tabular form:

Table 4: Summary Source-Pathway-Receptor Model

Source		Pathway		Receptor	
S1	Contaminated Soils	P1	Direct Contact	R1	Property: New structures on site
		P2	Surface Water	R2	Site Workers & End Users
		P3	Groundwater	R3	End Users
				R4	Controlled Waters
				R5	Ecology

The Conceptual Site Model can therefore be developed as tabulated over page.

Table 5: Conceptual Site Model Summary

Sources		
S1	Soils/Made Ground Adjacent to Site	Soils may be present within the site and adjacent to the site that could be contaminated with residues from the former rail activities.
Pathways		
P1	Direct Contact	Direct contact with soils will possibly occur during the development of the site by Groundworkers. Mitigation by site protocols, use of the correct PPE and welfare arrangement will limit this risk. Post development, there should be no pathways present to allow direct contact as the development will be capped with sufficient soil cover as exists at present.
P2	Surface Water	Any surface water from run-off will be managed by the drainage strategy adopted for the development.
P3	Groundwater	Percolation of surface water and run-off may permeate into the ground and mobilise any leachable contaminants, if present. This should be mitigated by the drainage strategy for the development.
Receptors		
R1	Property	Any buildings should be designed such that any elevated concentrations of contaminants found that may affect building materials are accommodated for in the design.
R2	Site Workers	Workers may come into contact with the soils on site. Therefore, good practice and correct handling protocols should be established as part of any Construction Phase Plan use of the correct PPE and welfare arrangements provided to reduce and minimise any potential contact with the soils.
R3	End Users	Post development, there should be no pathways present to allow direct contact with users of the site, as the development will effectively be capped with existing soils. This capping should mitigate against the migration of any ground gases that may be within any made ground off site.
R4	Controlled Waters	No controlled waters are expected to be impacted by the construction works. Any drainage strategy should ensure measures are in place to mitigate percolation of waters through the underlying soils into the ground or water courses.
R5	Ecology	No ecological receptors have been identified in the PRA. Any new planting on the scheme should be in existing soils.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

Following the Tier 1 Preliminary Risk Assessment/Desk Study the following observations and conclusions have been identified:

Geotechnical:

- The geological map for the overall site area indicates the site is to be mantled by Glacial Till.
- The bedrock geology on the site study area is a Mudstone, Siltstone and Sandstone.
- Made Ground in the form of former railway track/sidings may be present on / within, the eastern boundary of the site.

Geo-Environmental:

- Made Ground or shallow soils that may be present could contain potential contaminants of concern have not been identified on the site of the proposed redevelopment of the site, particularly any associated with the former tramway on / within the eastern site boundary.
- Potential for off-site sources of contamination to the site are considered to be possible with the adjacent former lime kiln to the south of the site. It is understood the southern section of the site (south of the existing tree line) is not included within the development area and therefore any risk associated with the historic lime kiln to the development area is considered to be negligible.
- Organic soils or Made Ground have not been identified on the site itself that may constitute a ground gas risk.
- There is a possibility of leaching of any potentially contaminated soils off site into the controlled waters, but these will not be additional to entry that has already occurred.

6.2 Recommendations

A number of potential geotechnical and geo-environmental issues have been identified within this study. The following recommendations are made:

- In relation to any geo-environmental/contaminated land issues, the desk study has identified the possibility of made ground being locally present on the site in the area. A ground investigation should be undertaken to investigate the nature and extent of any Made Ground.

- There is a risk of made ground being present adjacent to the site and therefore a potential source of land contamination. However, this is highly unlikely to be disturbed as part of the development of the site to an extent that could pose a risk to site end users, site workers or controlled waters, nor will it be additional to entry that has already occurred in relation to controlled waters.

7.0 REFERENCES

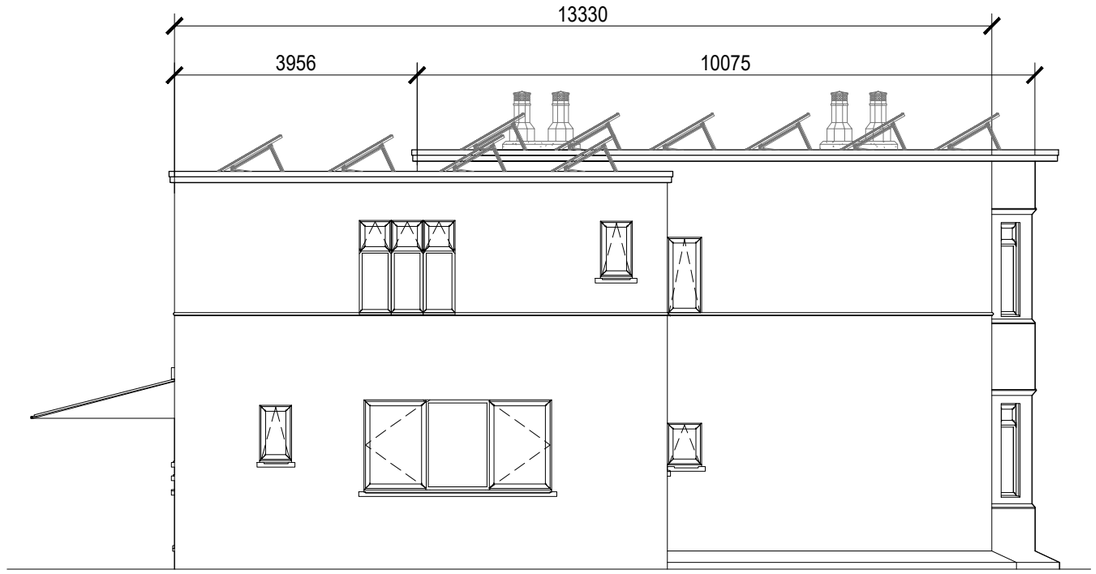
British Geological Survey:

- British Geological Survey (BGS) Sheet SS79NW, 1:10,560.
- BGS Lexicon of Named Rock Units (www.bgs.ac.uk/lexicon)
- BGS Geology of Britain Viewer (www.bgs.ac.uk)

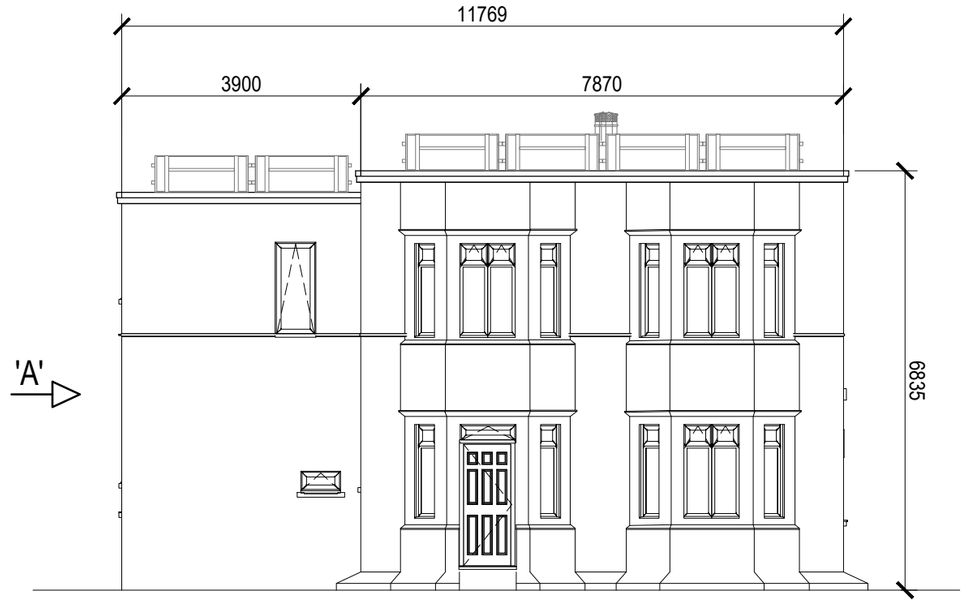
Groundsure Reports:

- GroundSure® Enviro+Geo Insight Report Ref. HMD-213- 8541162
- Ordnance Survey Maps from 1879 to 2003, at 1:1,250, 1:2,500, 1:10,560 and 1:10,000 scale. Ref. HMD-213-85411461

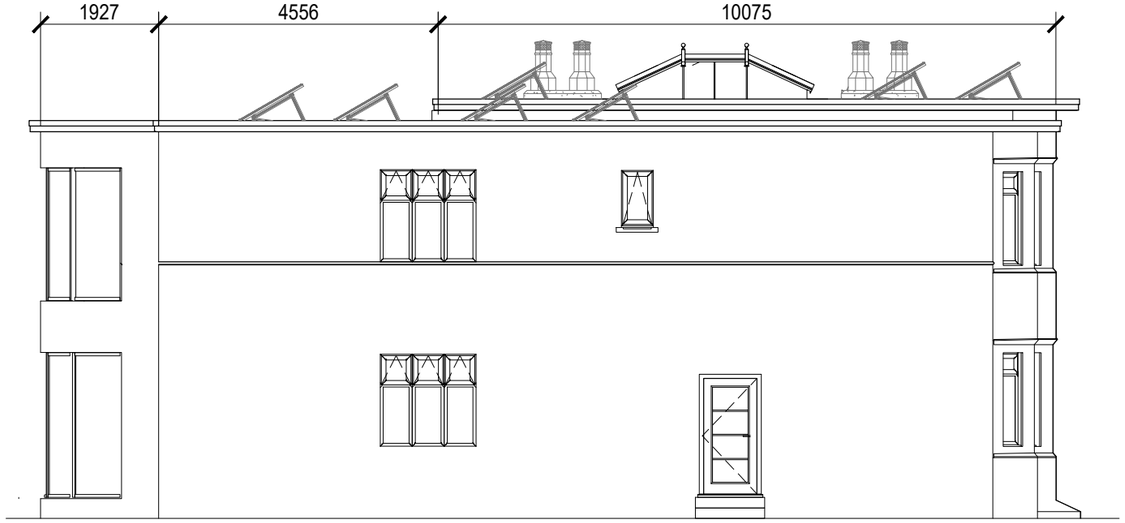
APPENDIX I – SITE PLANS



Existing elevation on 'A'
Scale - 1:100



Existing front elevation
Scale - 1:100



Proposed elevation on 'A'
Scale - 1:100

Proposed front elevation
Scale - 1:100

Notes :

All dimensions are to be site checked and confirmed prior to order and manufacture of components and prior to the commencement of works on site.

Material, workmanship & construction are to conform with current British Standards, Codes of Practice, Agreement Certificates & Manufacturers recommended specifications and are to fully comply with the Building Regulation, related approved documents and legislation.

All services are to be installed in accordance with statutory authority regulations and by-laws.

Safety :

All builder practices are to comply with :
* The Health & Safety at Work Act (1974)
* The Management of Health and Safety at Work (1999)
* The Construction (Health & Safety Welfare) regs. (1996)
* The Construction (Lifting Operations) regs. (1961)
* The Construction (Head Protection) regs. (1989)
* The Construction (Design & Management) regs. (2007)
* COSSH regs
* PUWER regs
* PPE regs
* Manual Handling regs

Go to www.hse.gov.uk. for further information.

WARNING:- THIS MAY BE A REDUCED SIZE PRINT, CHECK SCALE BELOW

2m 1m 0 5m 10m

1:100

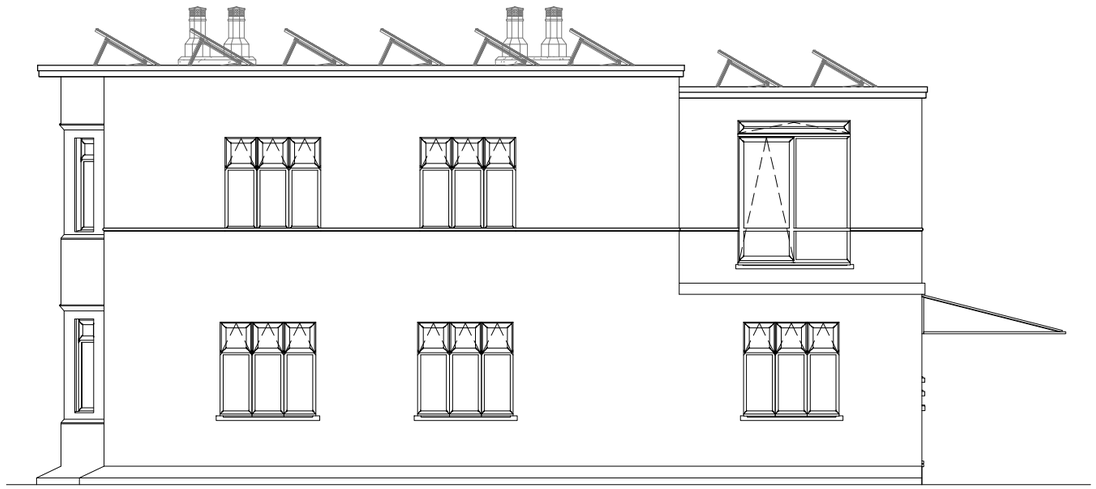
REV	DESCRIPTION	DATE
03	Mods for new application	Jan'25
02	Minor mods	May'24

Client
Mr & Mrs A. Follant

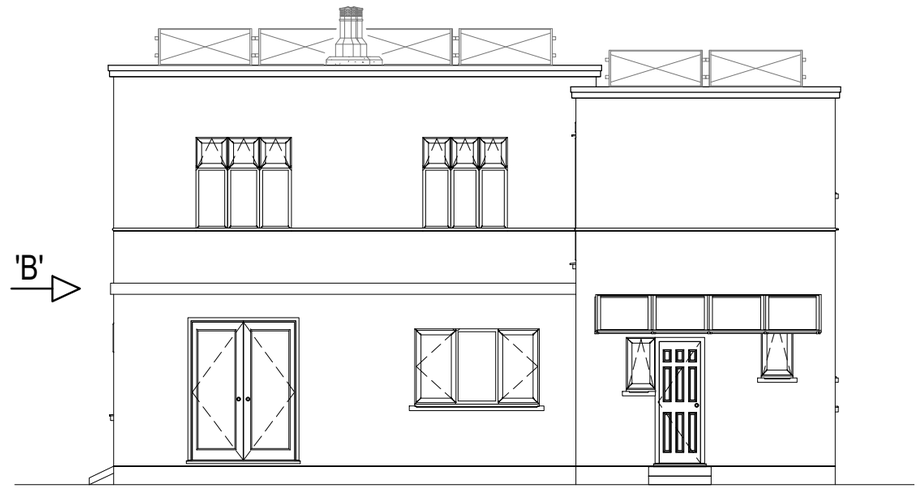
Title
Existing and proposed elevations

Scheme
Retrospective application for the demolition of a dwelling and the construction of a replacement detached dwelling at 'The Paddock', Duffryn, Neath, SA10 7BQ

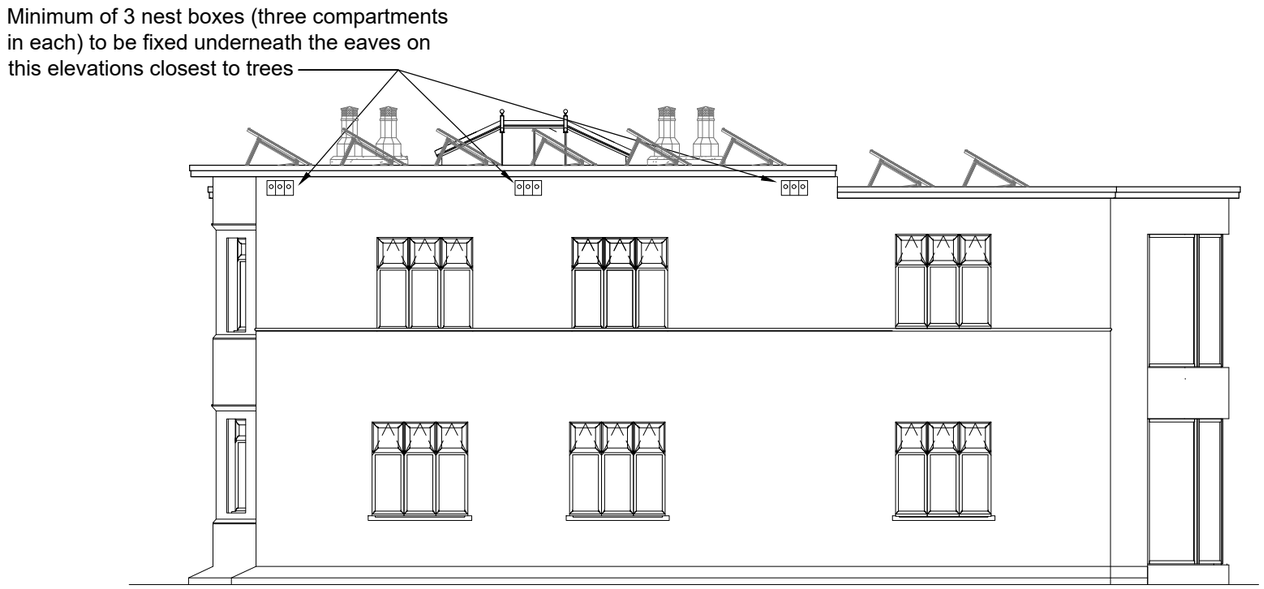
Scale (A3)	Drawing No.	Issue
As shown	AF-001	03



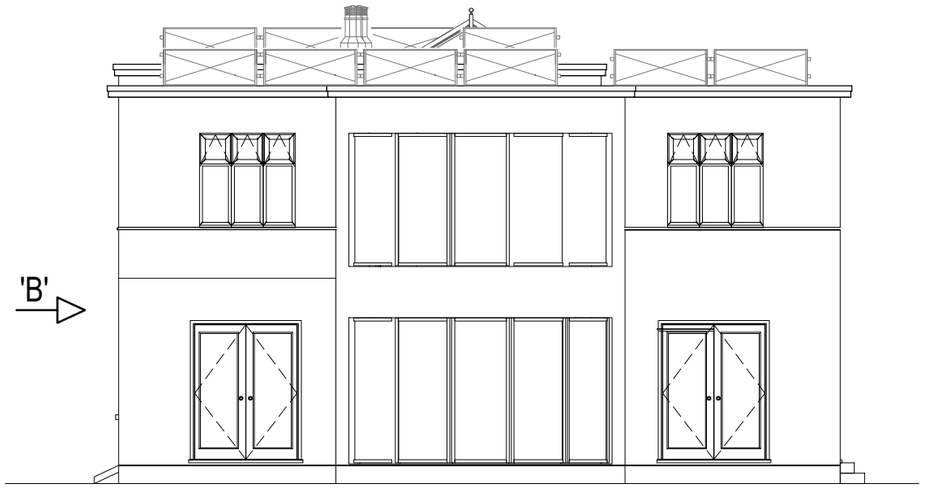
Existing elevation on 'B'
Scale - 1:100



Existing rear elevation
Scale - 1:100



Proposed elevation on 'B'
Scale - 1:100



Proposed rear elevation
Scale - 1:100

Notes :

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* The Management of Health and Safety at Work (1999)
* The Construction (Health & Safety Welfare) regs. (1996)
* The Construction (Lifting Operations) regs. (1961)
* The Construction (Head Protection) regs. (1989)
* The Construction (Design & Management) regs. (2007)
* COSSH regs
* PUWER regs
* PPE regs
* Manual Handling regs

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2m 1m 0 5m 10m

1:100

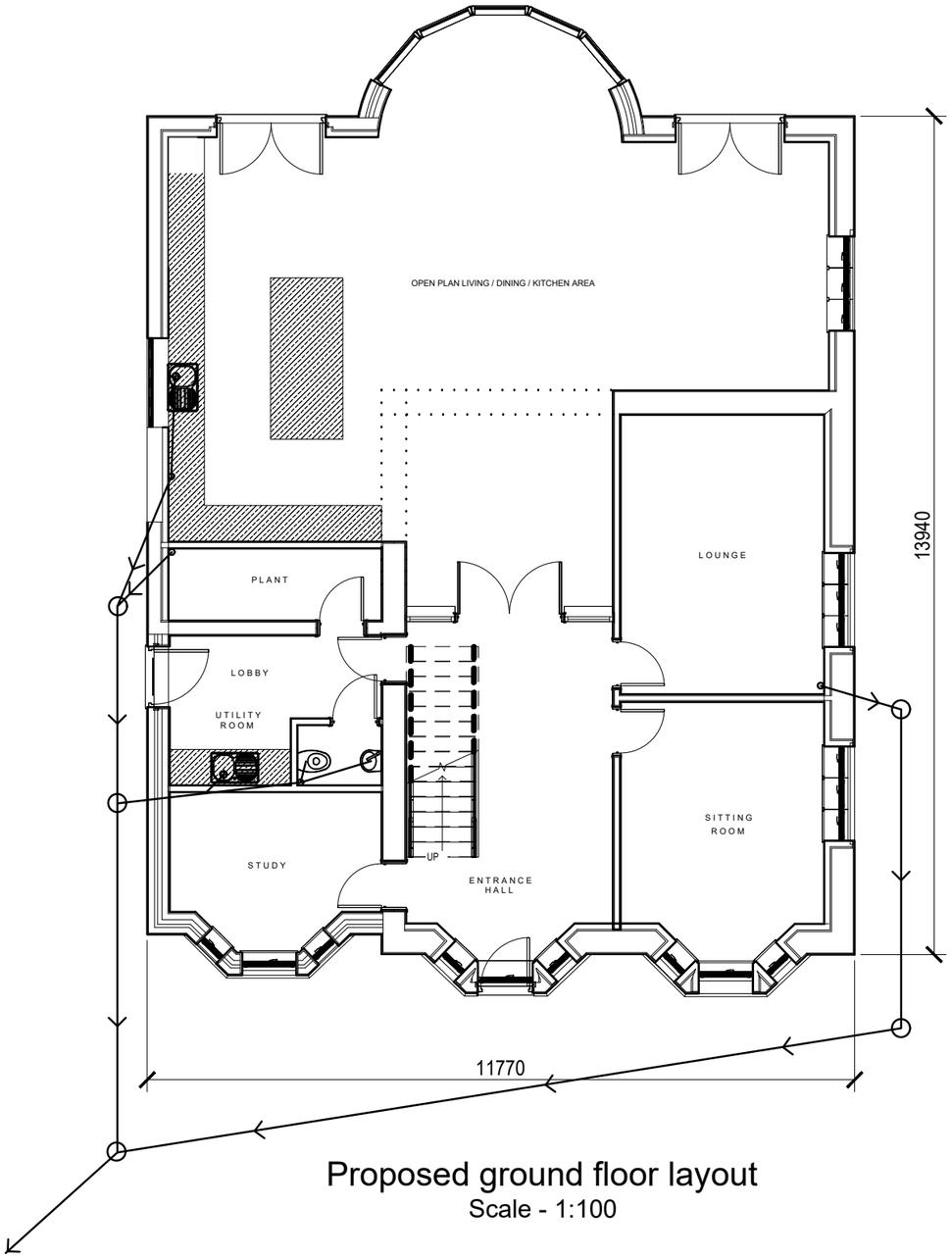
REV	DESCRIPTION	DATE
03	Mods for new application	Jan'25
02	Minor mods	May'24

Client
Mr & Mrs A. Follant

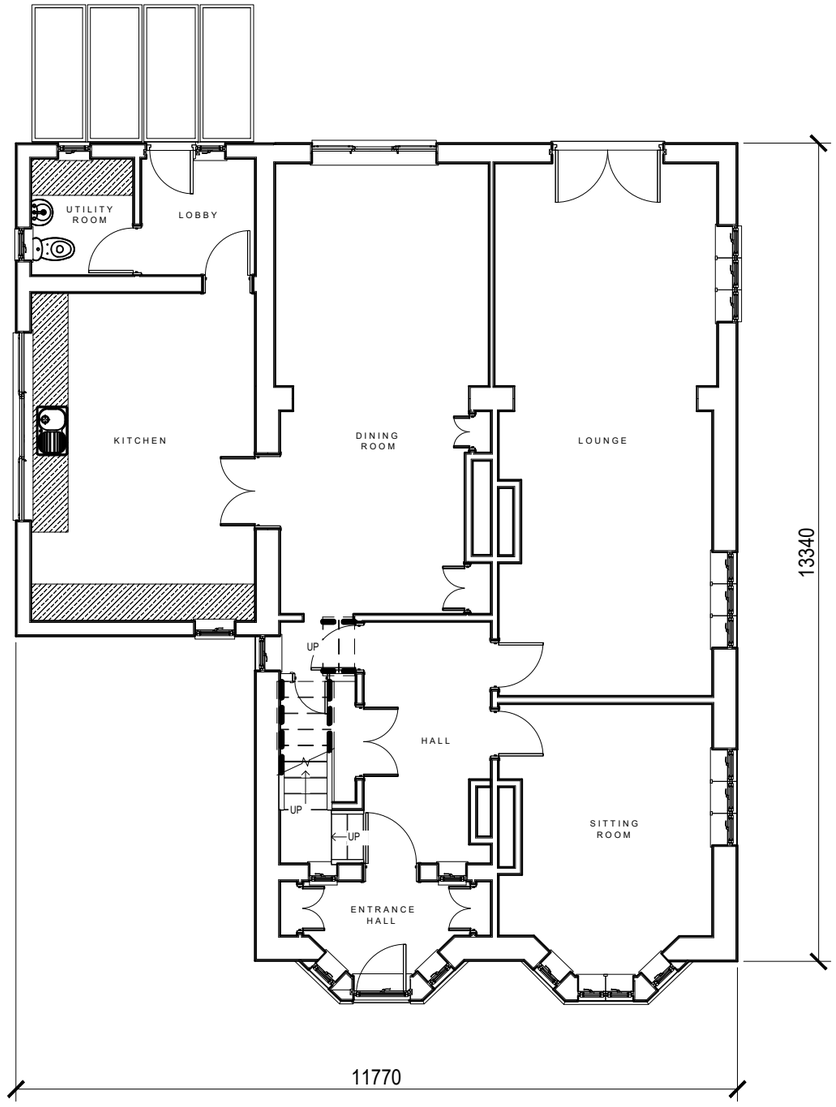
Title
Existing and proposed elevations

Scheme
Retrospective application for the demolition of a dwelling and the construction of a replacement detached dwelling at 'The Paddock', Duffryn, Neath, SA10 7BQ

Scale (A3)	Drawing No.	Issue
As shown	AF-002	03



Proposed ground floor layout
Scale - 1:100



Existing ground floor layout
Scale - 1:100

Notes :

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* The Construction (Health & Safety Welfare) regs. (1996)
* The Construction (Lifting Operations) regs. (1961)
* The Construction (Head Protection) regs. (1989)
* The Construction (Design & Management) regs. (2007)
* COSSH regs
* PUWER regs
* PPE regs
* Manual Handling regs

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2m 1m 0 5m 10m

1:100

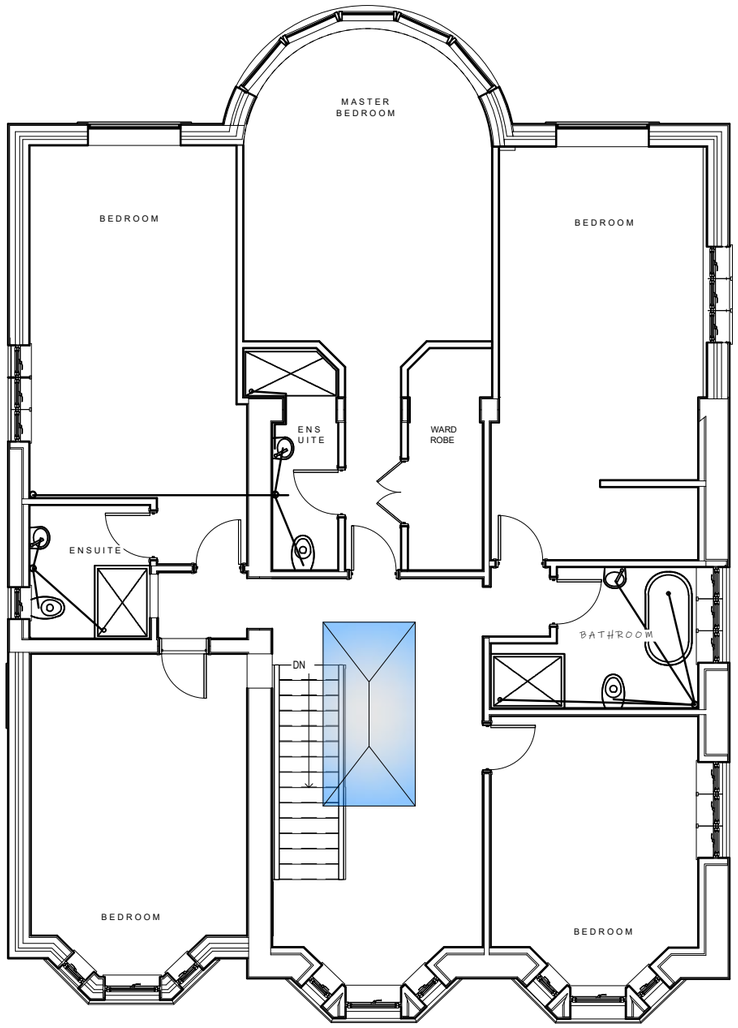
REV	DESCRIPTION	DATE
03	Mods for new application	Jan'25
02	Minor mods	May'24

Client
Mr & Mrs A. Follant

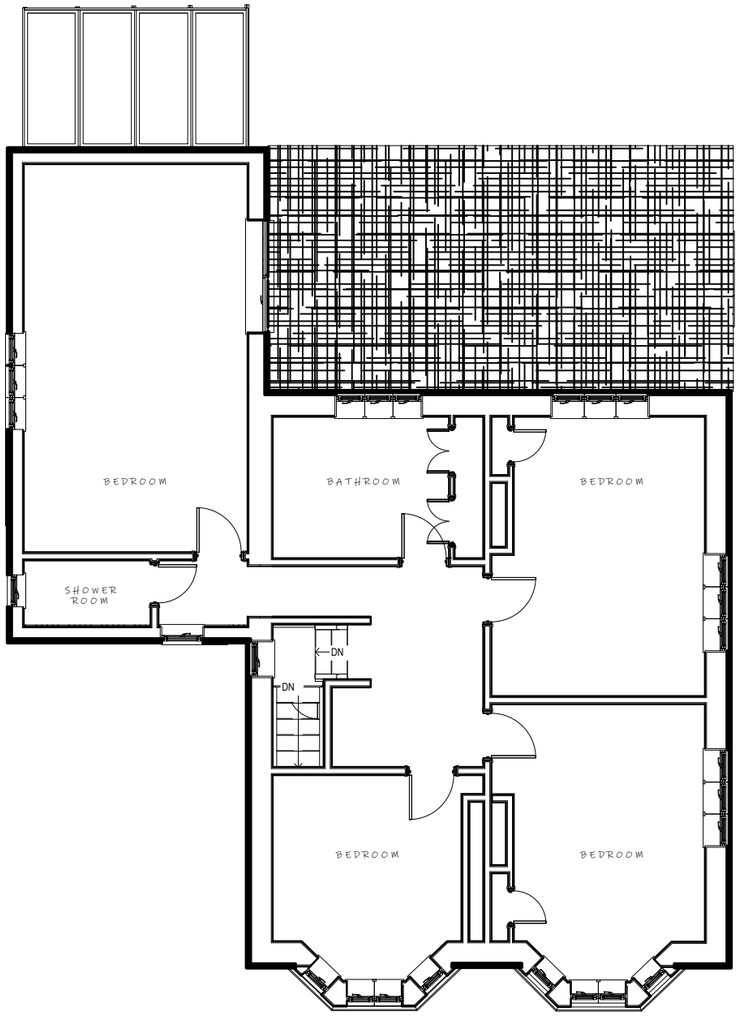
Title
Existing and proposed ground floor plans

Scheme
Retrospective application for the demolition of a dwelling and the construction of a replacement detached dwelling at 'The Paddock', Duffryn, Neath, SA10 7BQ

Scale (A3)	Drawing No.	Issue
As shown	AF-003	03



Proposed first floor layout
Scale - 1:100



Existing first floor layout
Scale - 1:100

Notes :

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* The Construction (Health & Safety Welfare) regs. (1996)
* The Construction (Lifting Operations) regs. (1961)
* The Construction (Head Protection) regs. (1989)
* The Construction (Design & Management) regs. (2007)
* COSSH regs
* PUWER regs
* PPE regs
* Manual Handling regs

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WARNING:- THIS MAY BE A REDUCED SIZE PRINT, CHECK SCALE BELOW

2m 1m 0 5m 10m

1:100

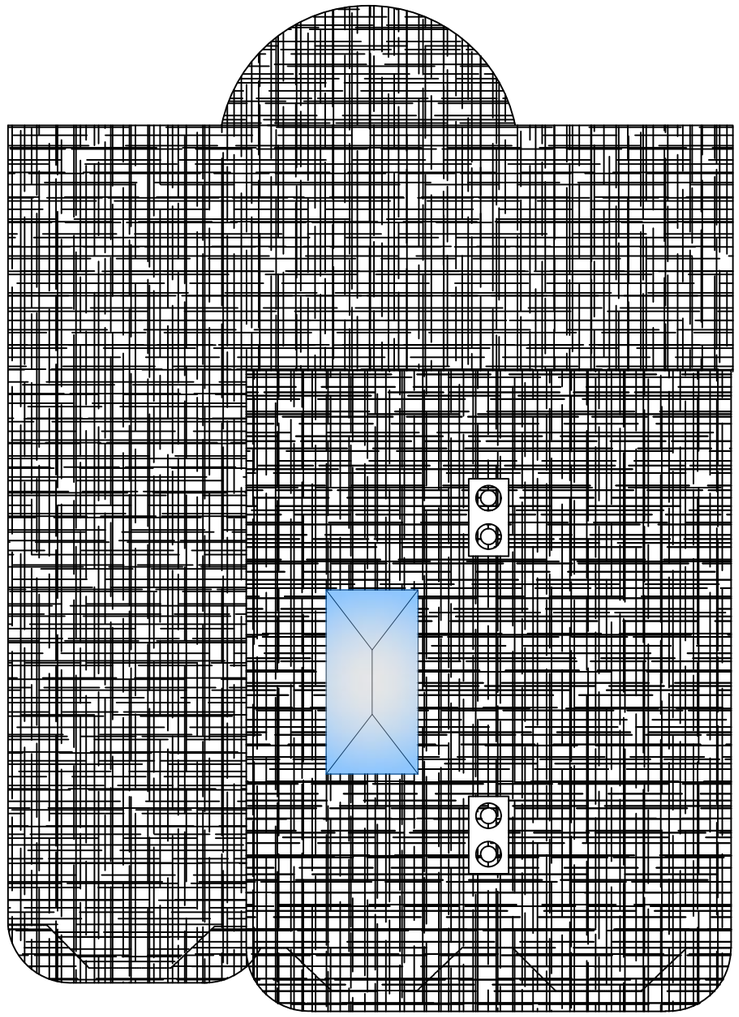
REV	DESCRIPTION	DATE
03	Mods for new application	Jan'25
02	Minor mods	May'24

Client
Mr & Mrs A. Follant

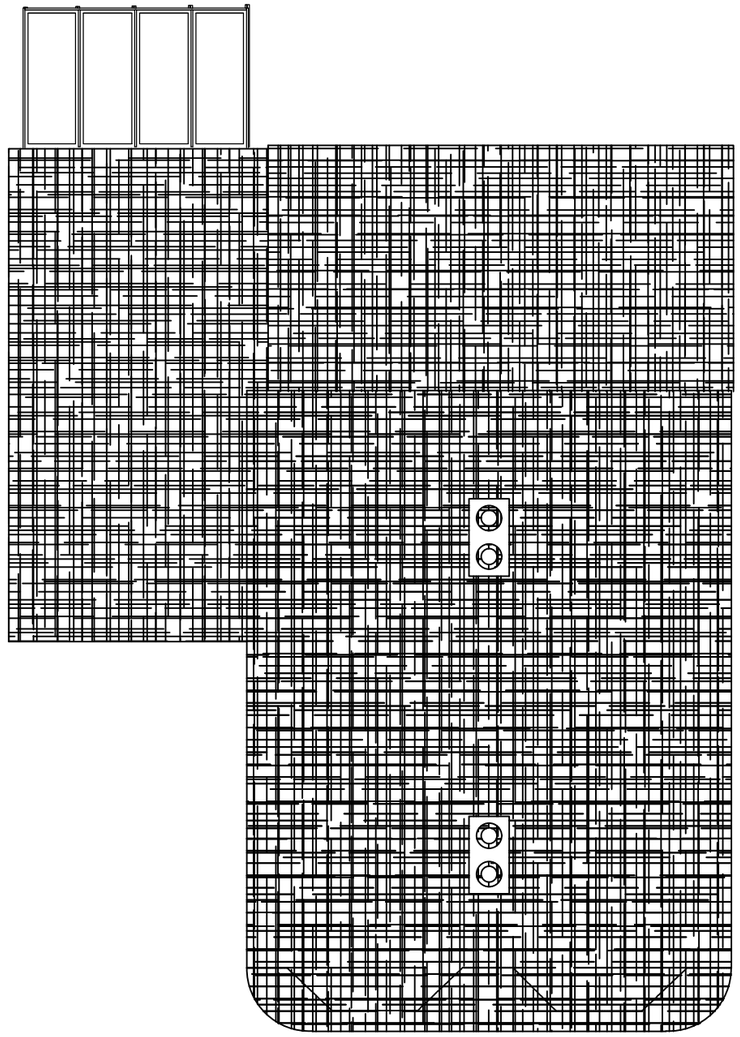
Title
Existing and proposed first floor plans

Scheme
Retrospective application for the demolition of a dwelling and the construction of a replacement detached dwelling at 'The Paddock', Duffryn, Neath, SA10 7BQ

Scale (A3)	Drawing No.	Issue
As shown	AF-004	03



Proposed roof layout
Scale - 1:100



Existing roof layout
Scale - 1:100

Notes :

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* The Construction (Health & Safety Welfare) regs. (1996)
* The Construction (Lifting Operations) regs. (1961)
* The Construction (Head Protection) regs. (1989)
* The Construction (Design & Management) regs. (2007)
* COSSH regs
* PUWER regs
* PPE regs
* Manual Handling regs

Go to www.hse.gov.uk. for further information.

WARNING:- THIS MAY BE A REDUCED SIZE PRINT, CHECK SCALE BELOW

2m 1m 0 5m 10m

1:100

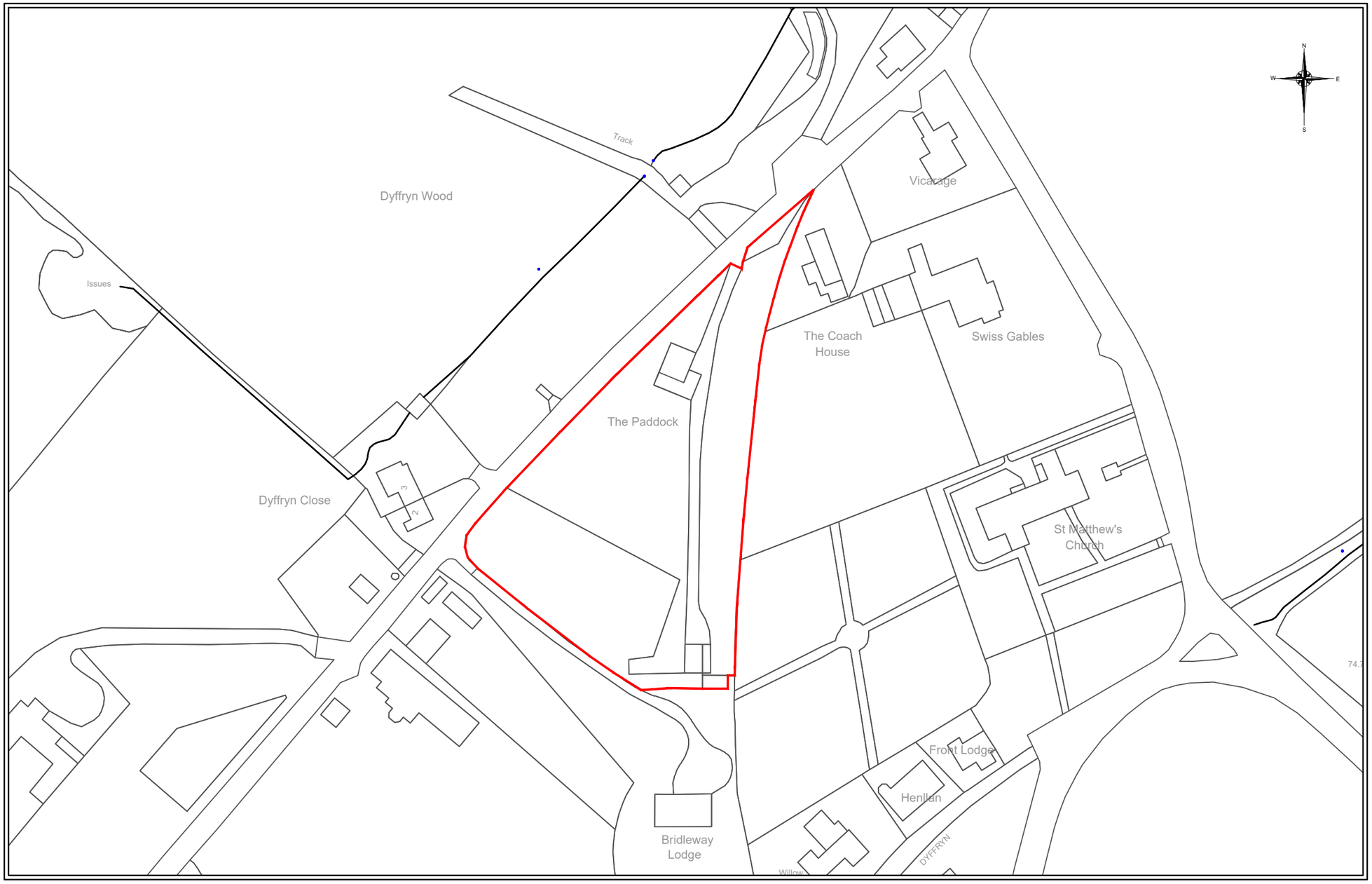
REV	DESCRIPTION	DATE
03	Mods for new application	Jan'25
02	Minor mods	May'24

Client
Mr & Mrs A. Follant

Title
Existing and proposed roof plans

Scheme
Retrospective application for the demolition of a dwelling and the construction of a replacement detached dwelling at 'The Paddock', Duffryn, Neath, SA10 7BQ

Scale (A3)	Drawing No.	Issue
As shown	AF-004A	03



Location plan

Scale - 1:1250

WARNING:- THIS MAY BE A REDUCED SIZE PRINT, CHECK SCALE BELOW

25m 0 25m 50m 75m 100m 125m

1:1250

Notes :

All dimensions are to be site checked and confirmed prior to order and manufacture of components and prior to the commencement of works on site.

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SAFETY :
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* The Construction (Health & Safety Welfare) regs. (1996)
* The Construction (Lifting Operations) regs. (1961)
* The Construction (Head Protection) regs. (1989)
* The Construction (Design & Management) regs. (2007)
* COSSH regs
* PUWER regs
* PPE regs
* Manual Handling regs

Go to www.hse.gov.uk. for further information.

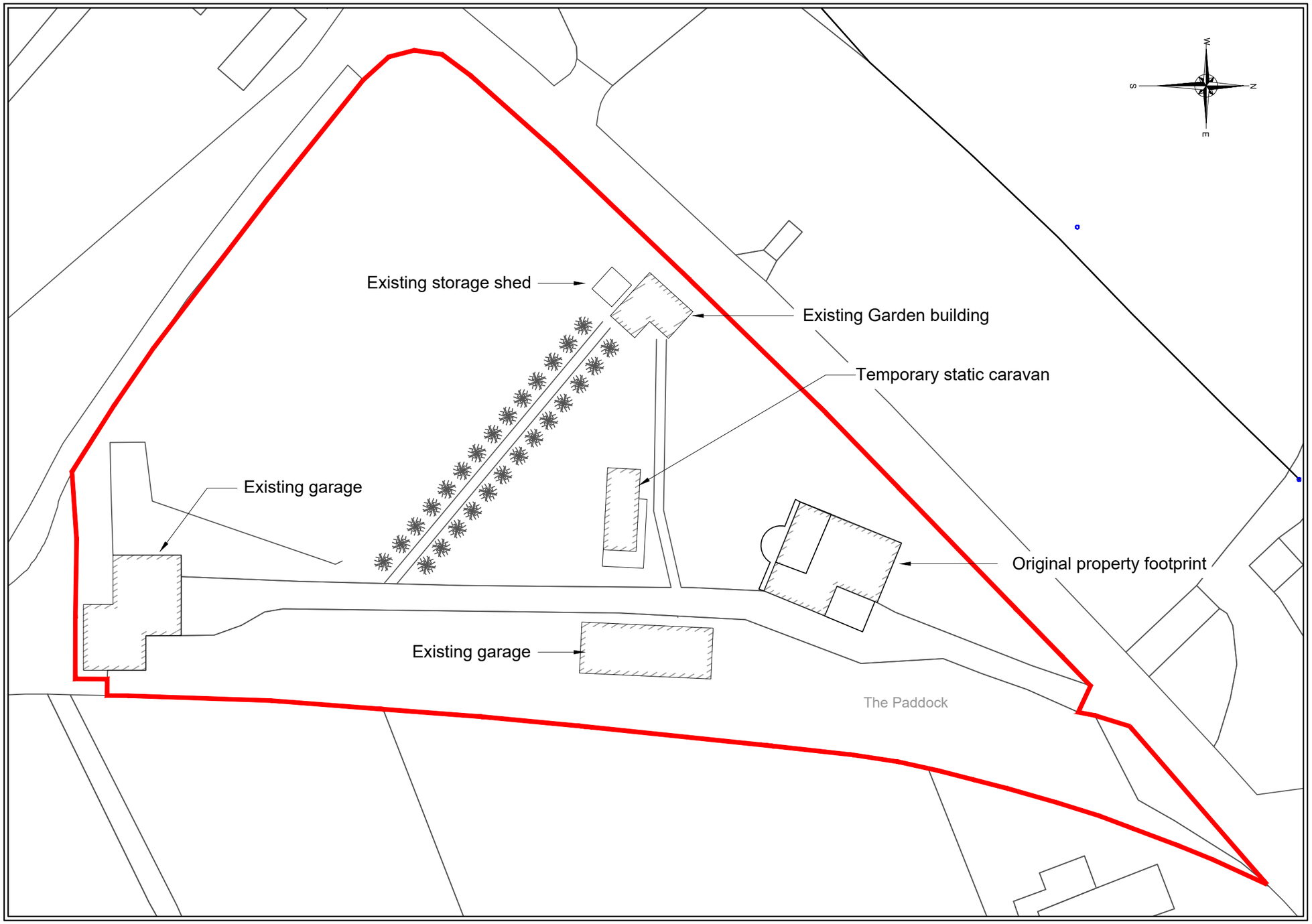
REV	DESCRIPTION	DATE
02	Mods for new application	Jan'25
01	First issue	Apr'24

Client
Mr & Mrs A. Follant

Title
Location plan

Scheme
Retrospective application for the demolition of a dwelling and the construction of a replacement detached dwelling at 'The Paddock', Duffryn, Neath, SA10 7BQ

Scale (A3)	Drawing No.	Issue
As shown	AF-005	02



Location plan

Scale - 1:500

WARNING:- THIS MAY BE A REDUCED SIZE PRINT, CHECK SCALE BELOW

10m 0 10m 20m 30m 40m 50m

1:500

Notes :

All dimensions are to be site checked and confirmed prior to order and manufacture of components and prior to the commencement of works on site.

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* The Management of Health and Safety at Work (1999)
* The Construction (Health & Safety Welfare) regs. (1996)
* The Construction (Lifting Operations) regs. (1961)
* The Construction (Head Protection) regs. (1989)
* The Construction (Design & Management) regs. (2007)
* COSSH regs
* PUWER regs
* PPE regs
* Manual Handling regs

Go to www.hse.gov.uk. for further information.

REV	DESCRIPTION	DATE
01	First issue	Feb'25

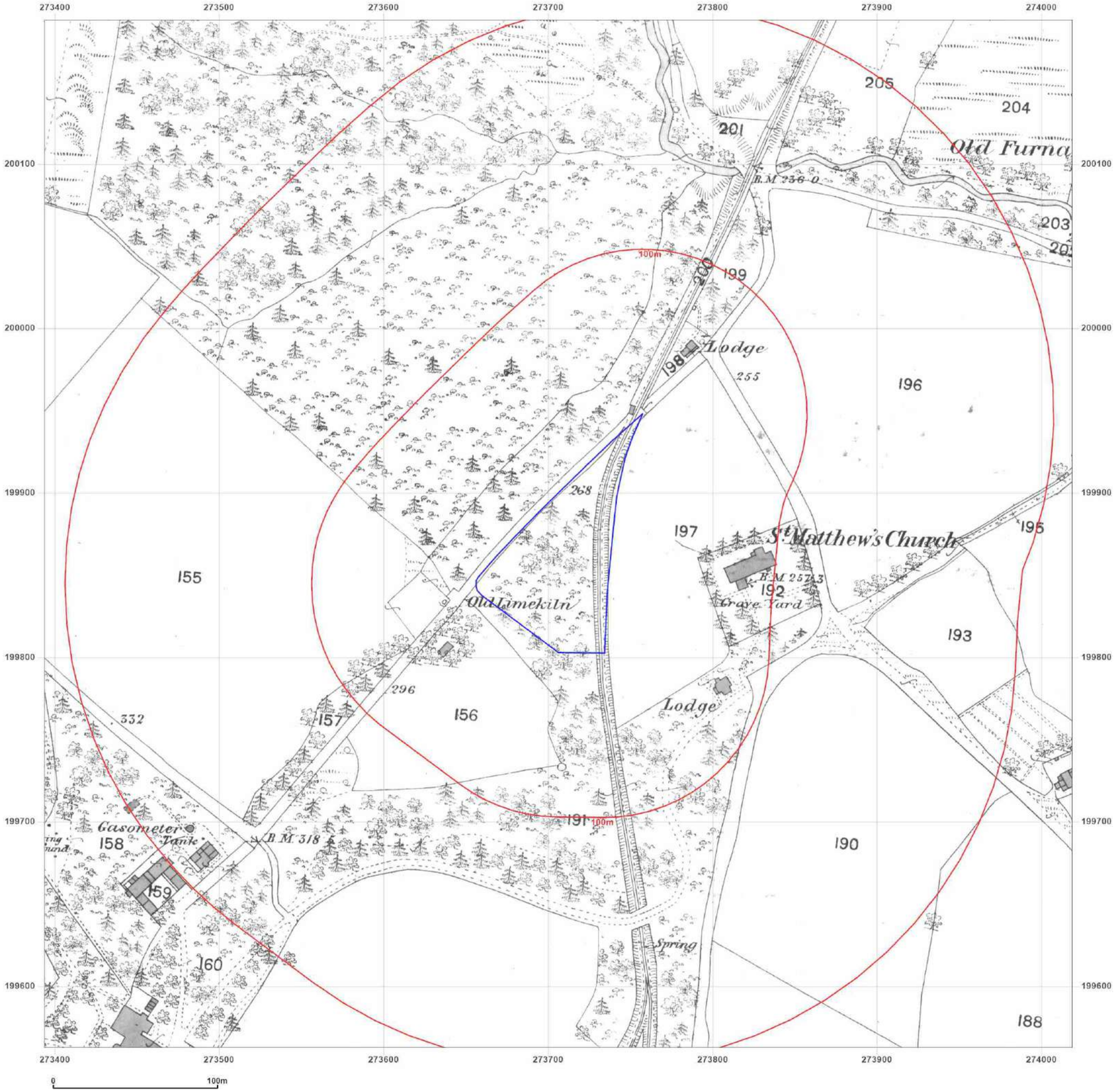
Client
Mr & Mrs A. Follant

Title
Block plan

Scheme
Demolition of existing property and construction of new dwelling at 'The Paddock', Duffryn, Neath, SA10 7BQ

Scale (A3)	Drawing No.	Issue
As shown	AF-200	01

APPENDIX II – HISTORICAL ORDNANCE SURVEY MAPS



Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: County Series

Map date: **1879**

Scale: 1:2,500

Printed at: 1:2,500

N
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S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 22 February 2022

Map legend available at:
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Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: County Series

Map date: **1899**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 22 February 2022

Map legend available at:
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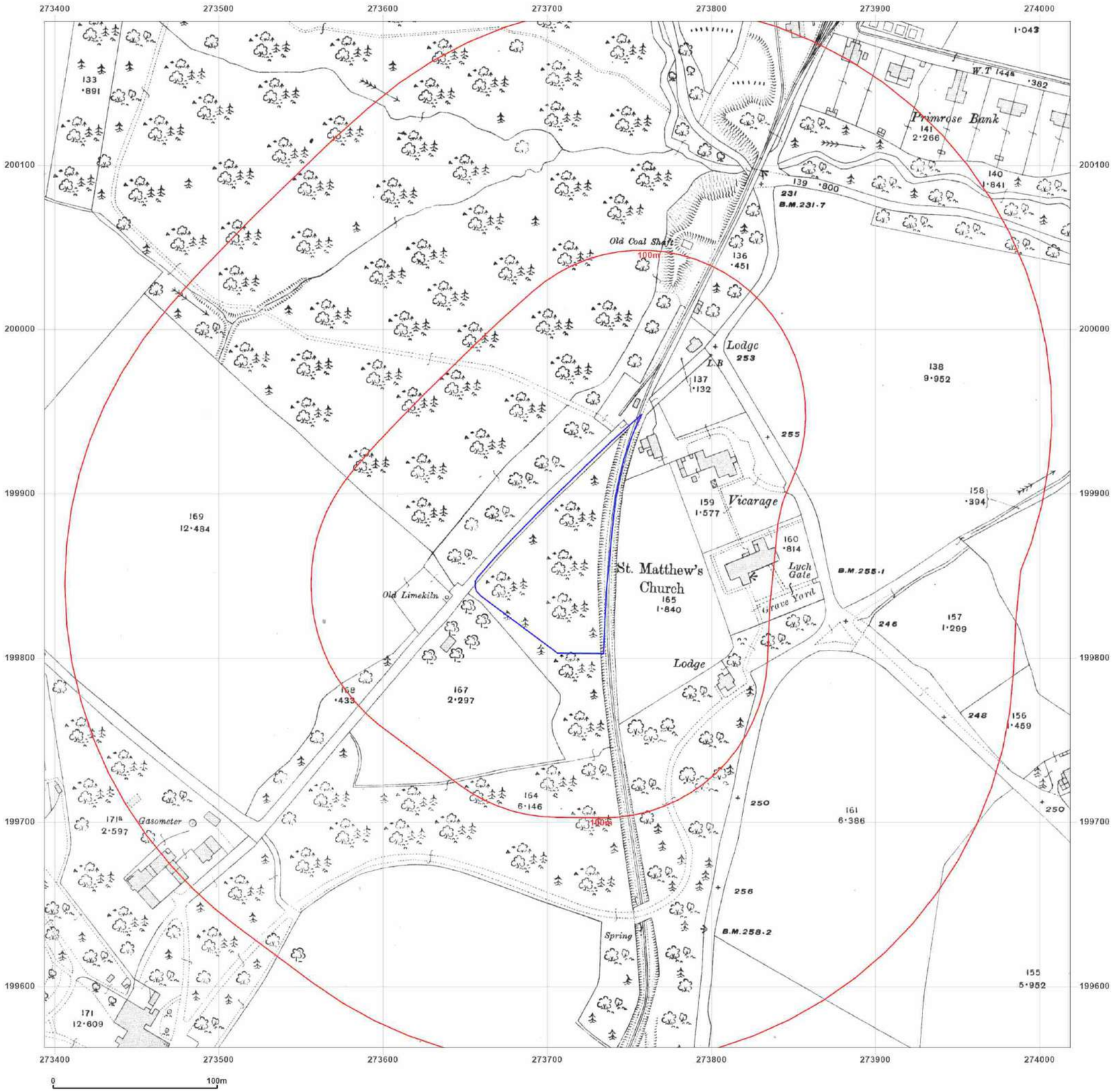

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: County Series

Map date: **1918**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1918
Revised 1918
Edition N/A
Copyright N/A
Levelled N/A

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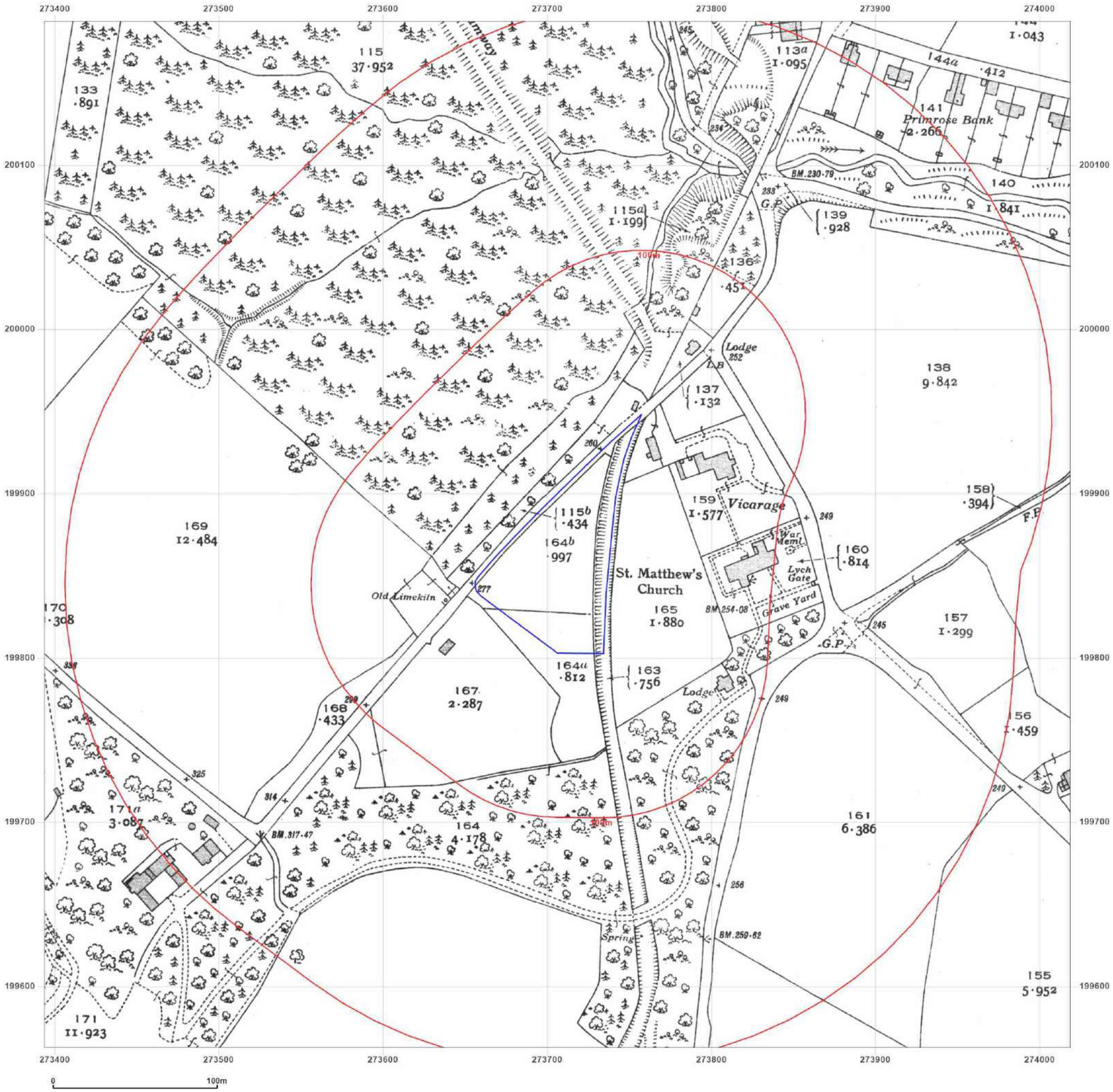

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: County Series

Map date: **1936**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1936
Revised 1936
Edition N/A
Copyright N/A
Levelled N/A

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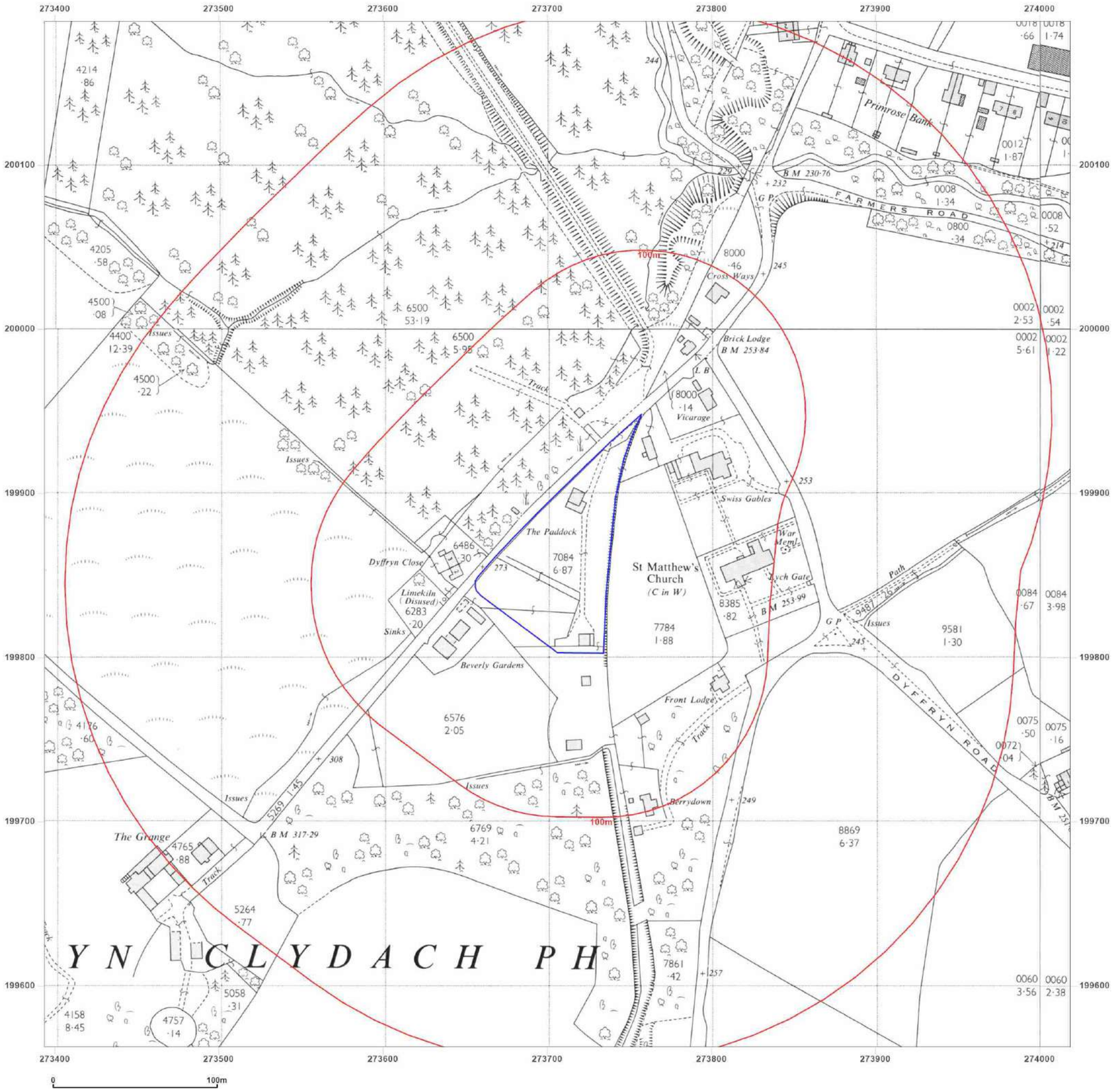

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **1964-1965**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1962

Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1963

Surveyed 1963
Revised 1963
Edition N/A
Copyright 1965
Levelled 1962

Surveyed 1963
Revised 1963
Edition N/A
Copyright 1965
Levelled 1963

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Production date: 22 February 2022

Map legend available at:
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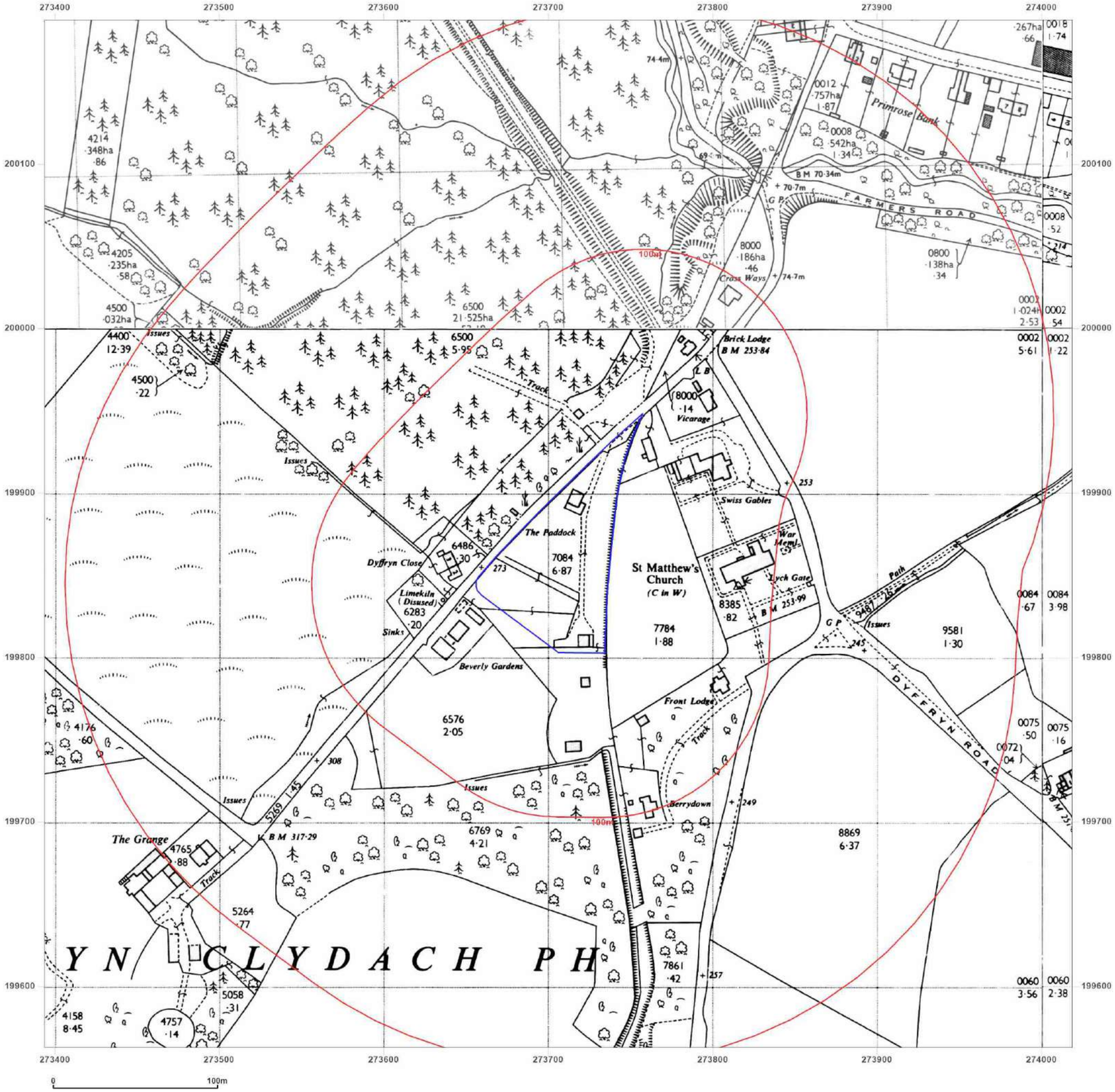

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **1964-1965**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **1965**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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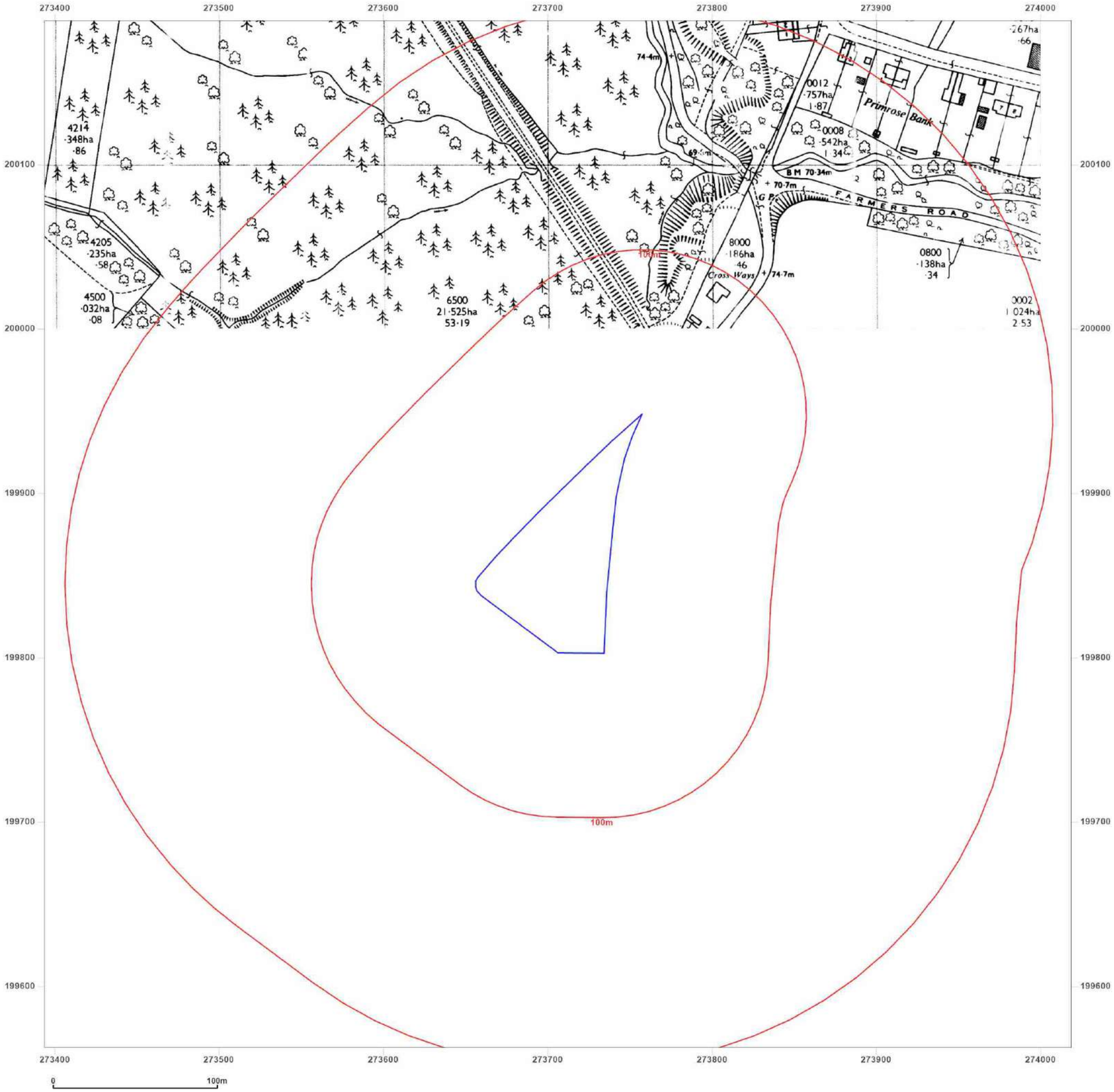

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **1977**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 22 February 2022

Map legend available at:
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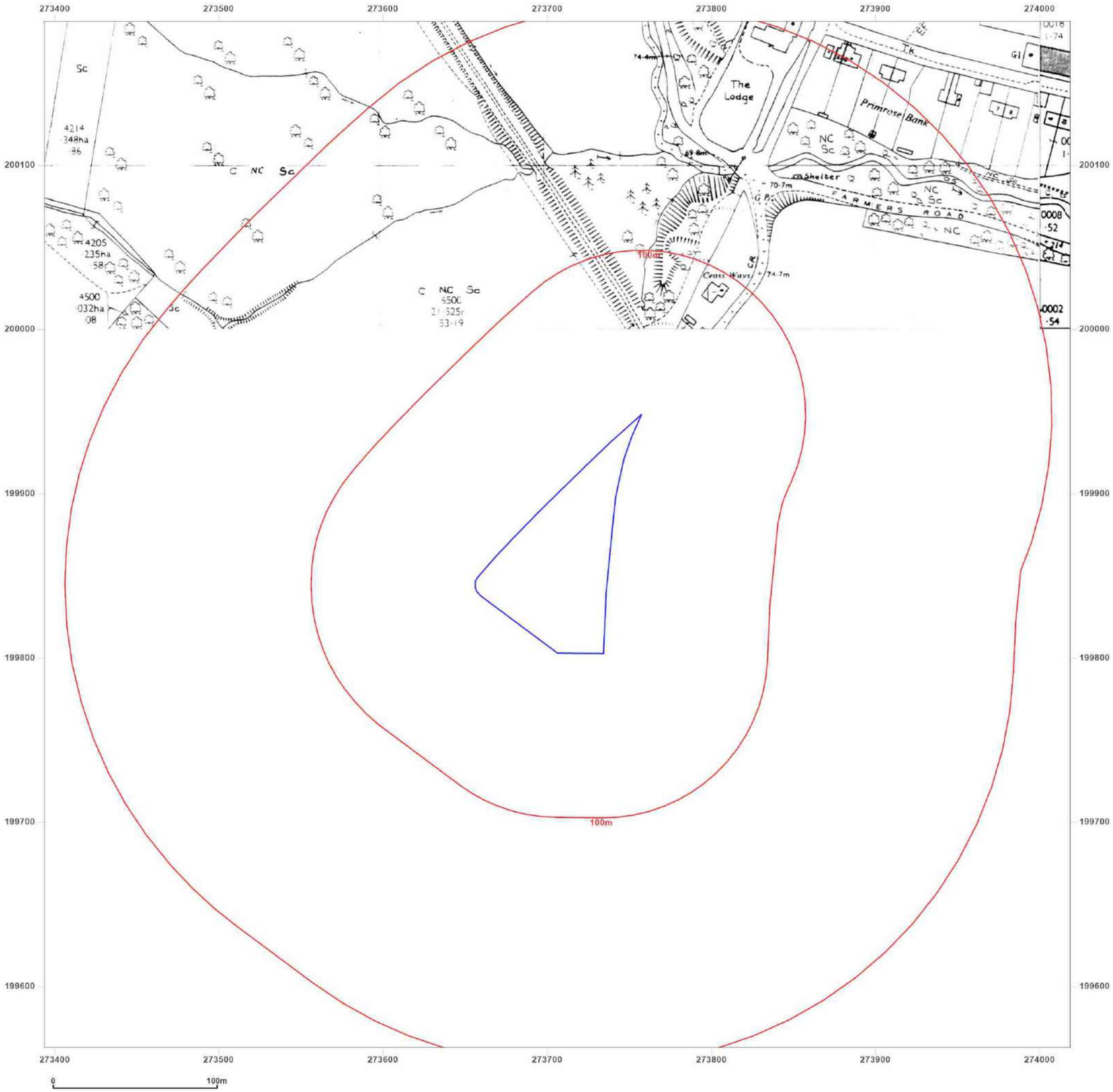

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **1986-1989**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1956
Revised 1989
Edition N/A
Copyright 1989
Levelled 1956

Surveyed 1963
Revised 1986
Edition N/A
Copyright 1986
Levelled 1963

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Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **1989-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1962
Revised 1989
Edition N/A
Copyright 1989
Levelled 1962

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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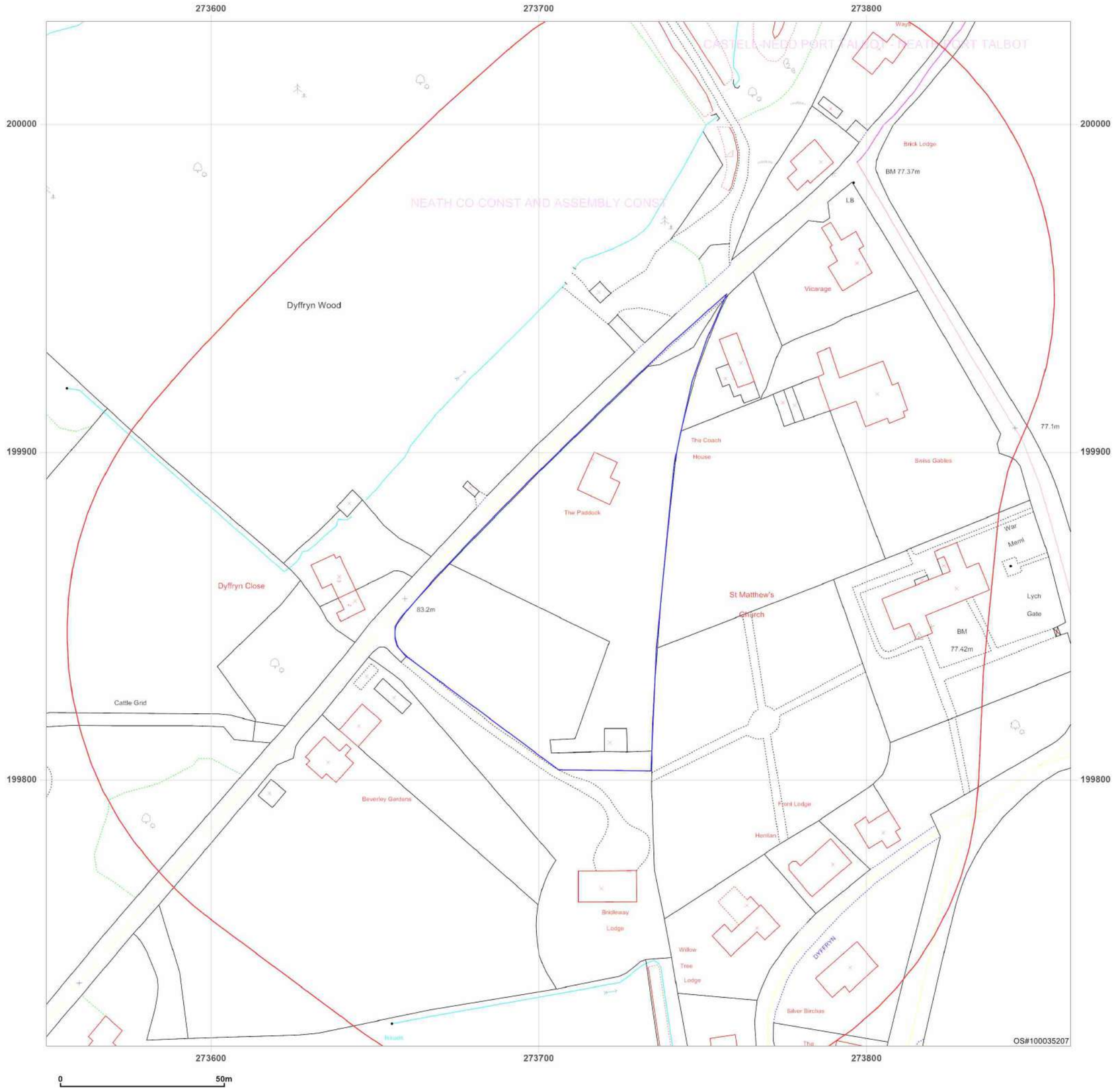

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: LandLine

Map date: **2003**

Scale: 1:1,250

Printed at: 1:1,250

N
W E
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2003

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Map legend available at:
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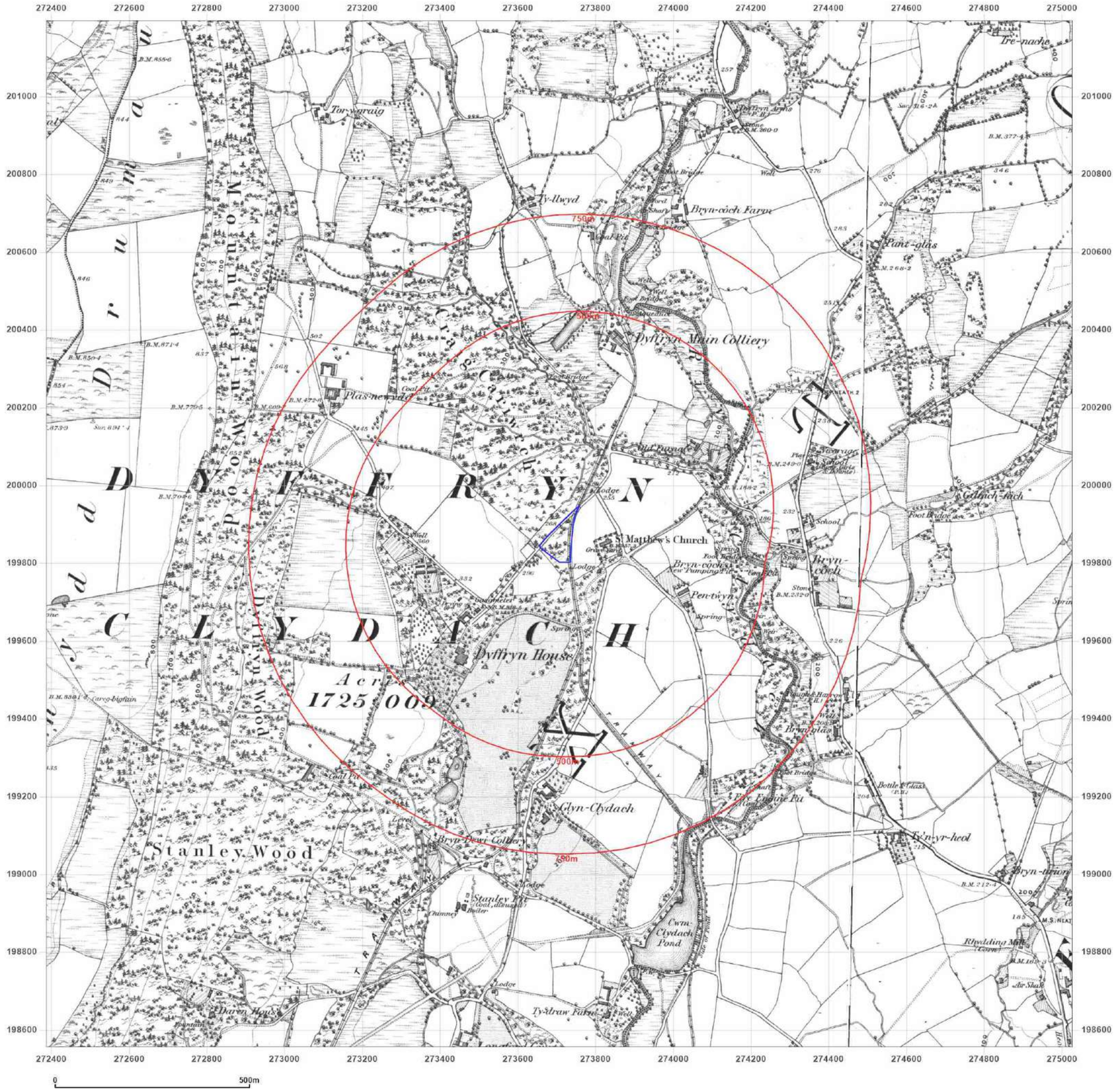

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: County Series

Map date: **1877**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1877
Revised 1877
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1877
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 22 February 2022

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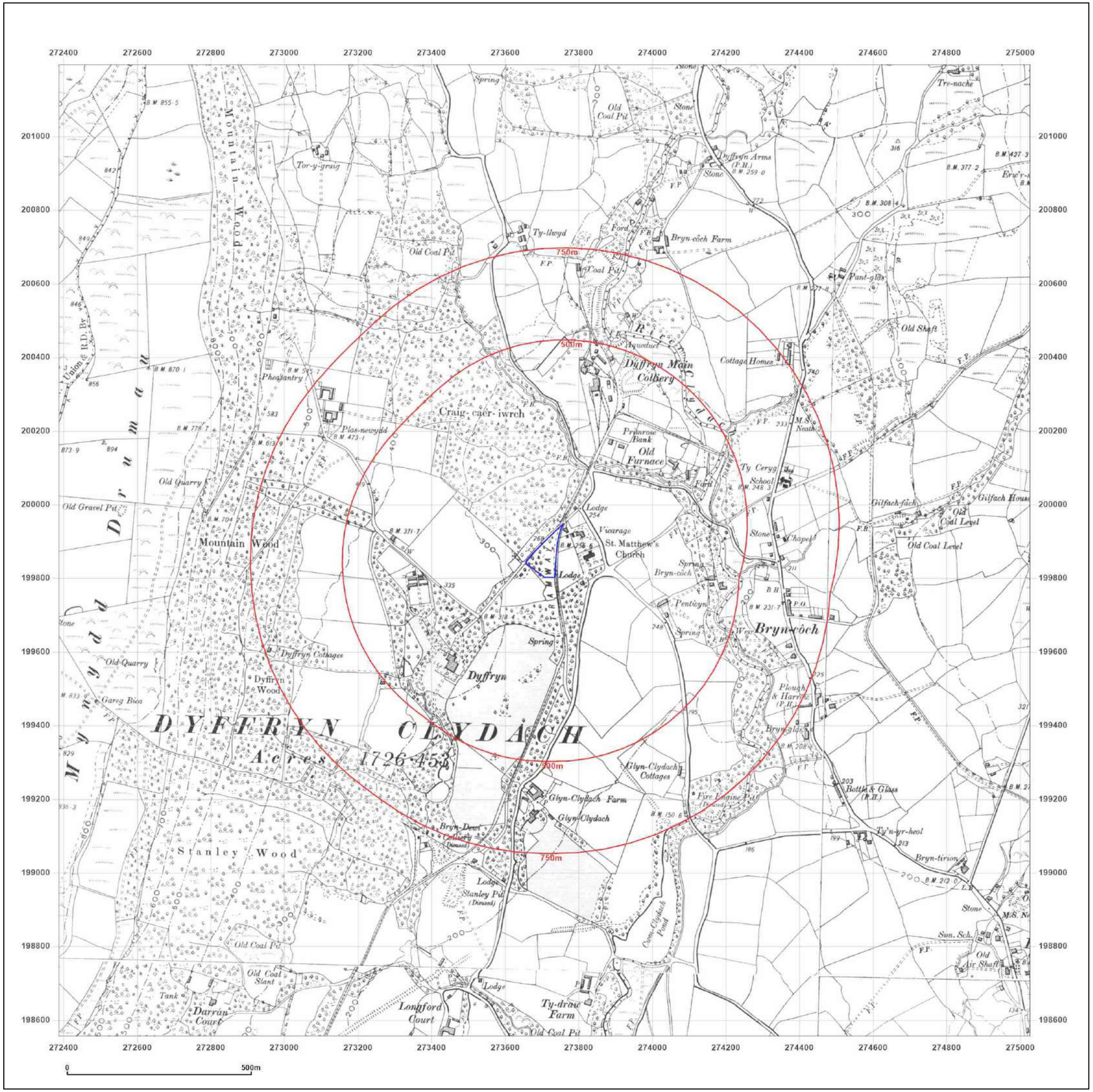

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: County Series

Map date: **1897**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1877
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

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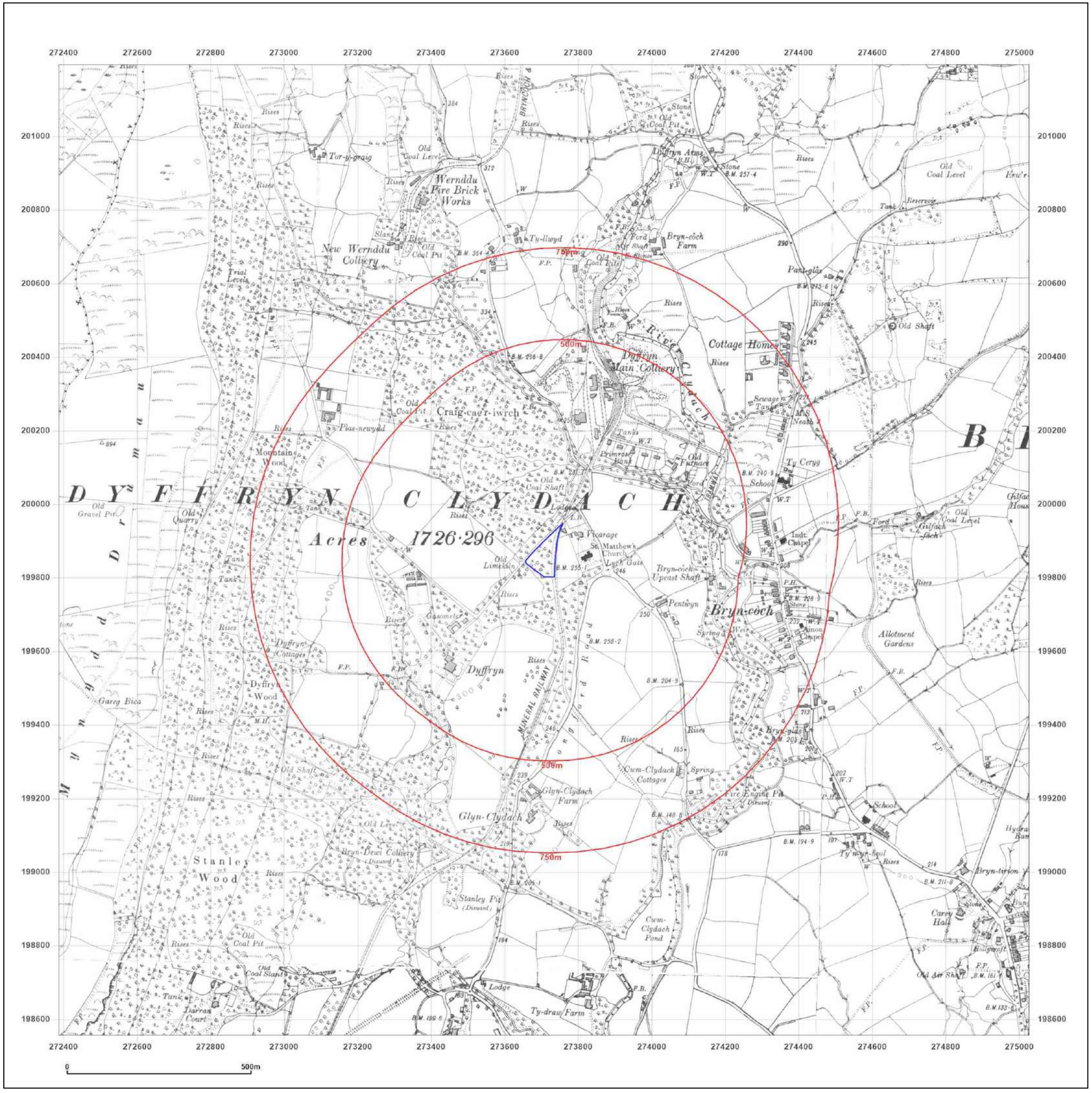

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: County Series

Map date: **1914**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1877
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1914
Edition 1914
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

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Map legend available at:
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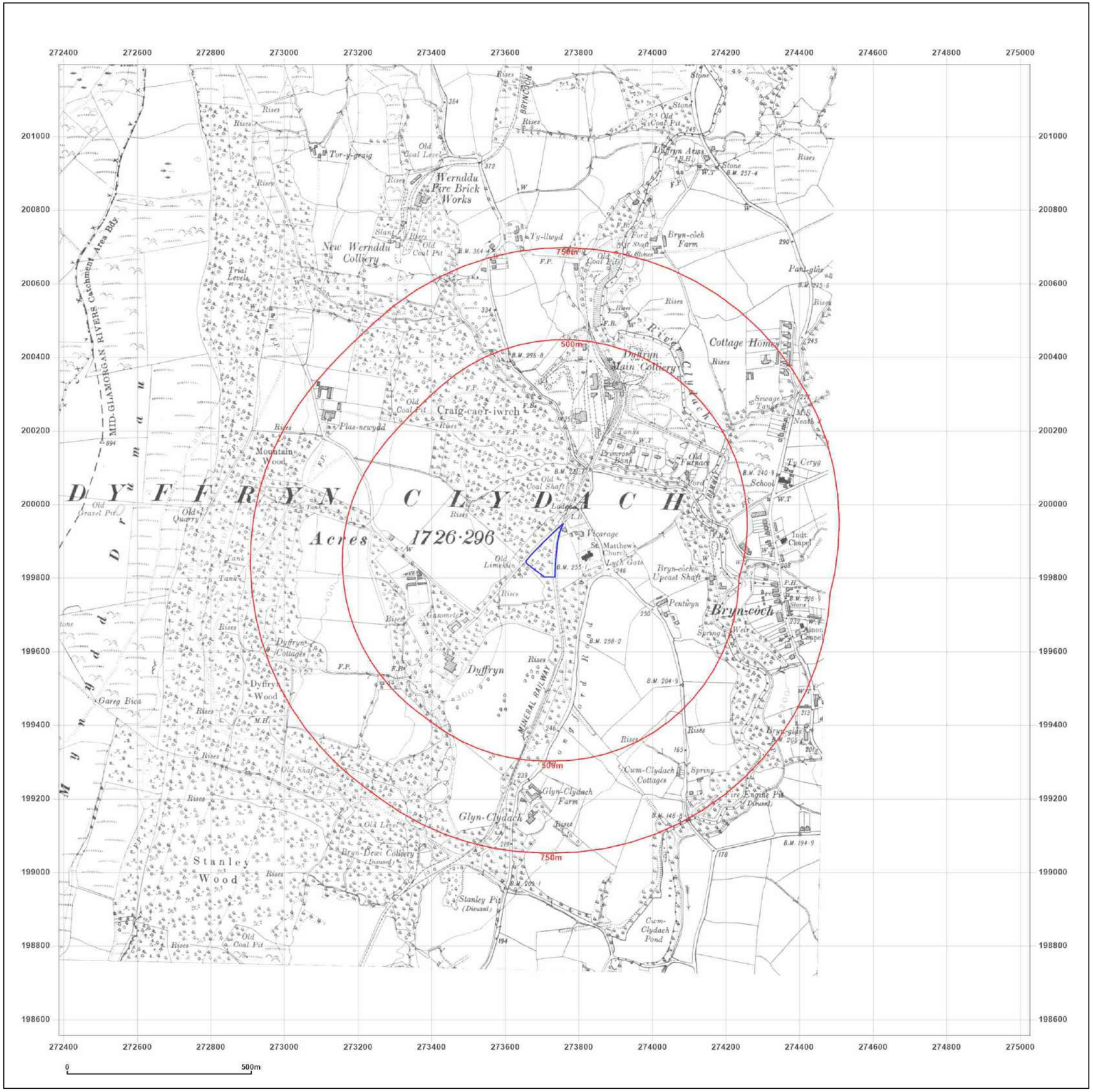

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: County Series

Map date: **1914**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1877
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

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Map legend available at:
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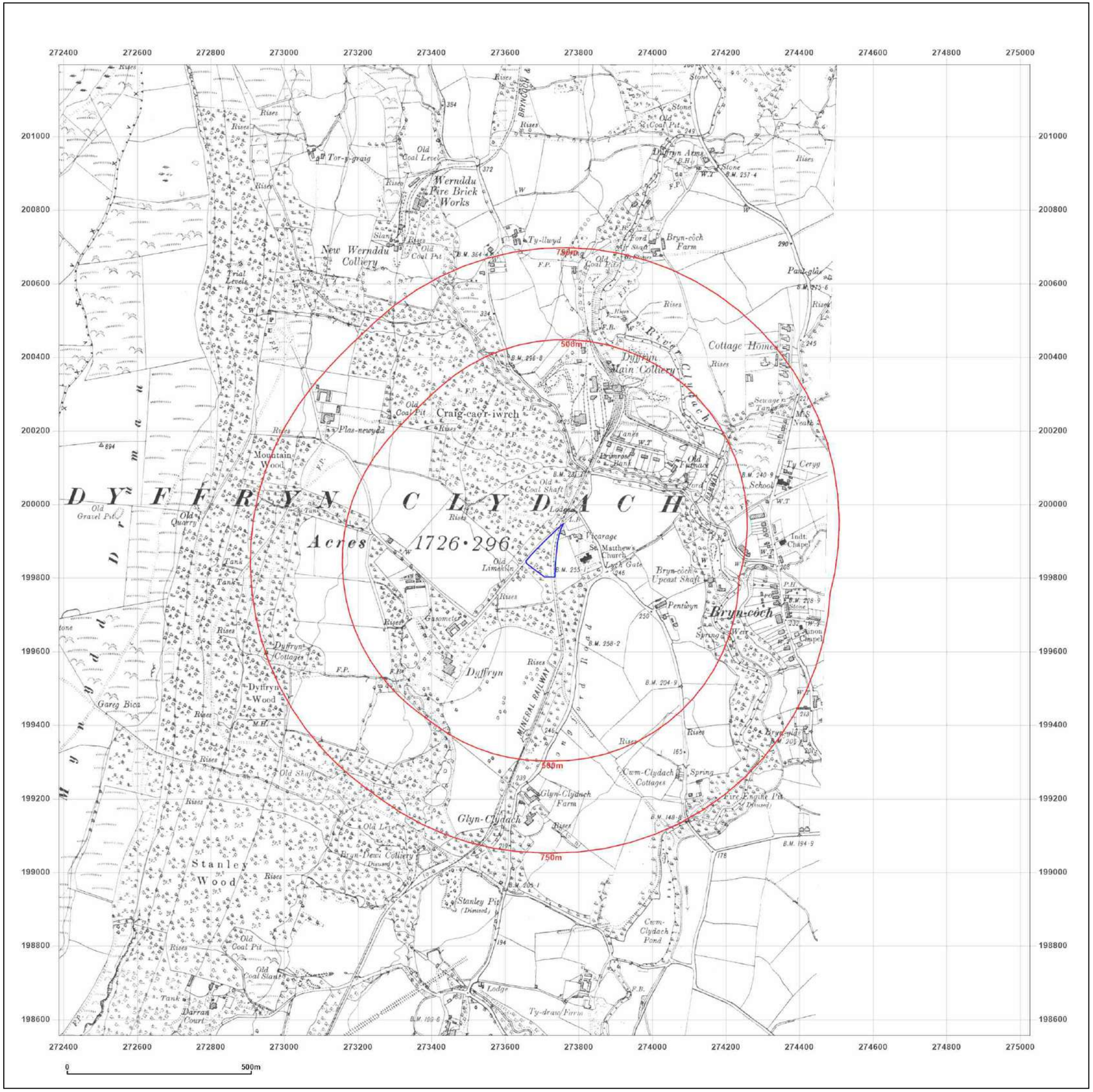


Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

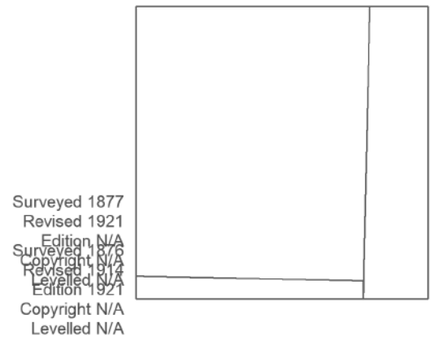
Map Name: County Series

Map date: **1921**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



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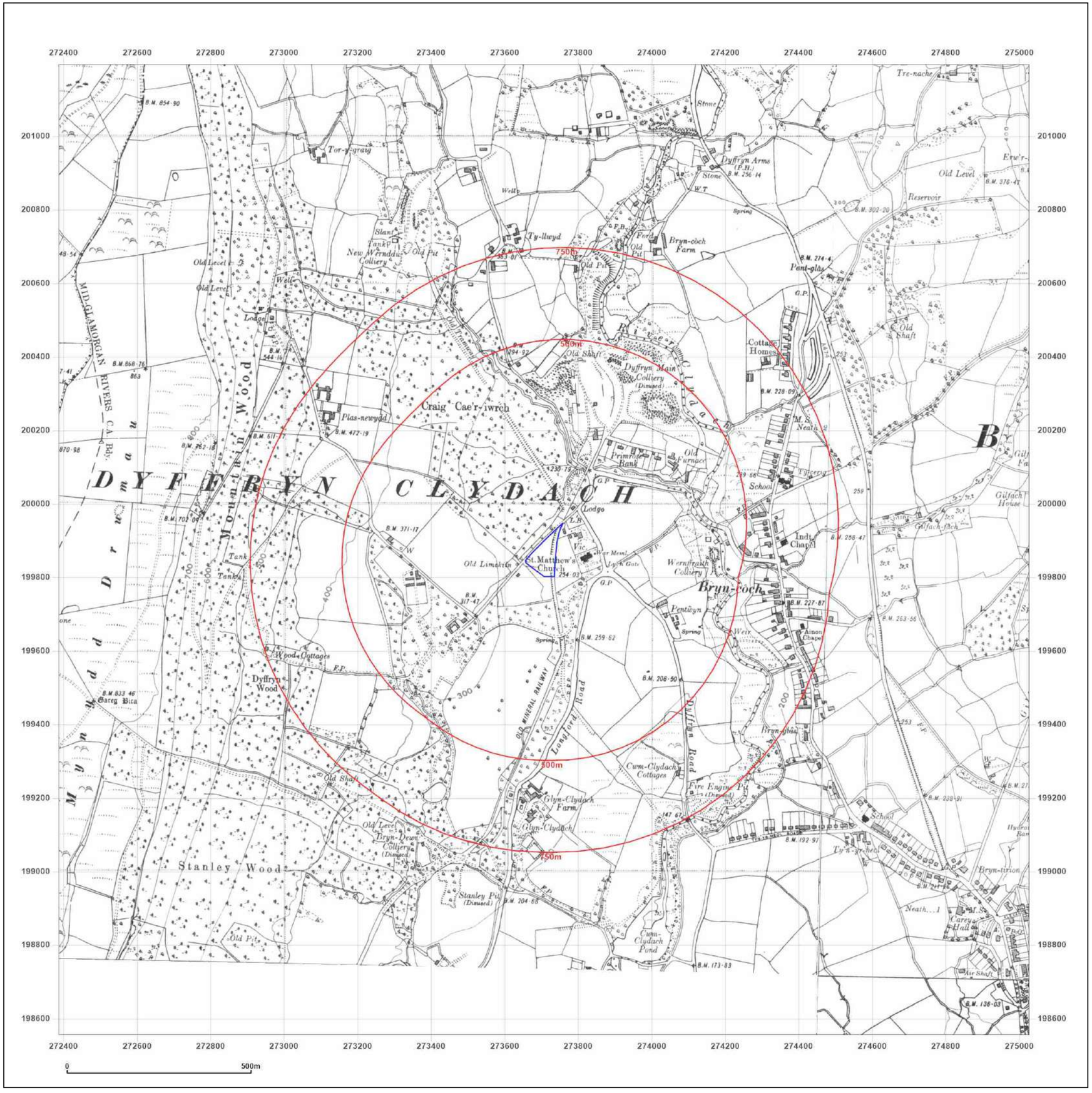

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Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: County Series

Map date: **1935-1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1877
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1935
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1936
Edition N/A
Copyright N/A
Levelled N/A

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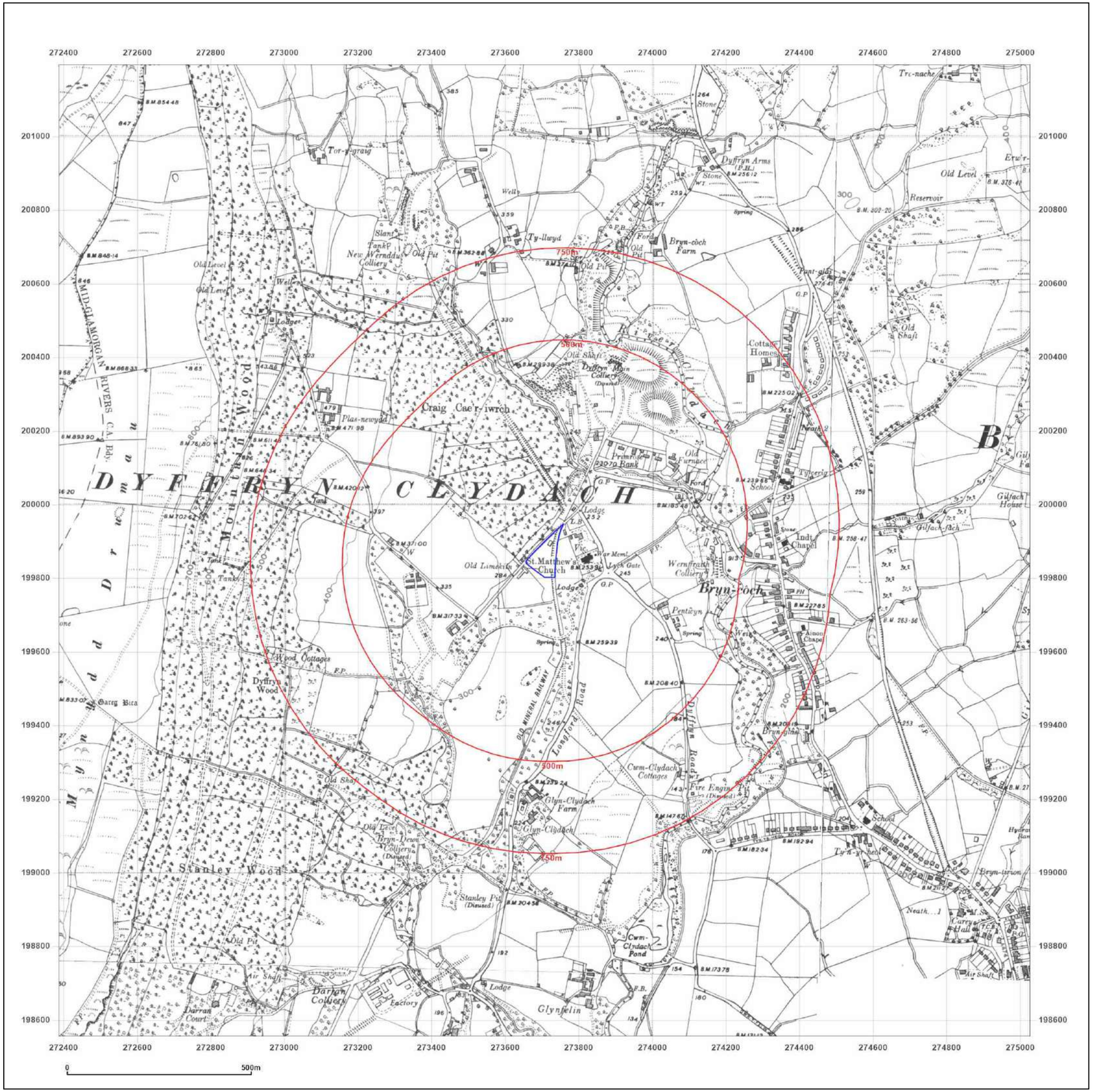

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1877
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

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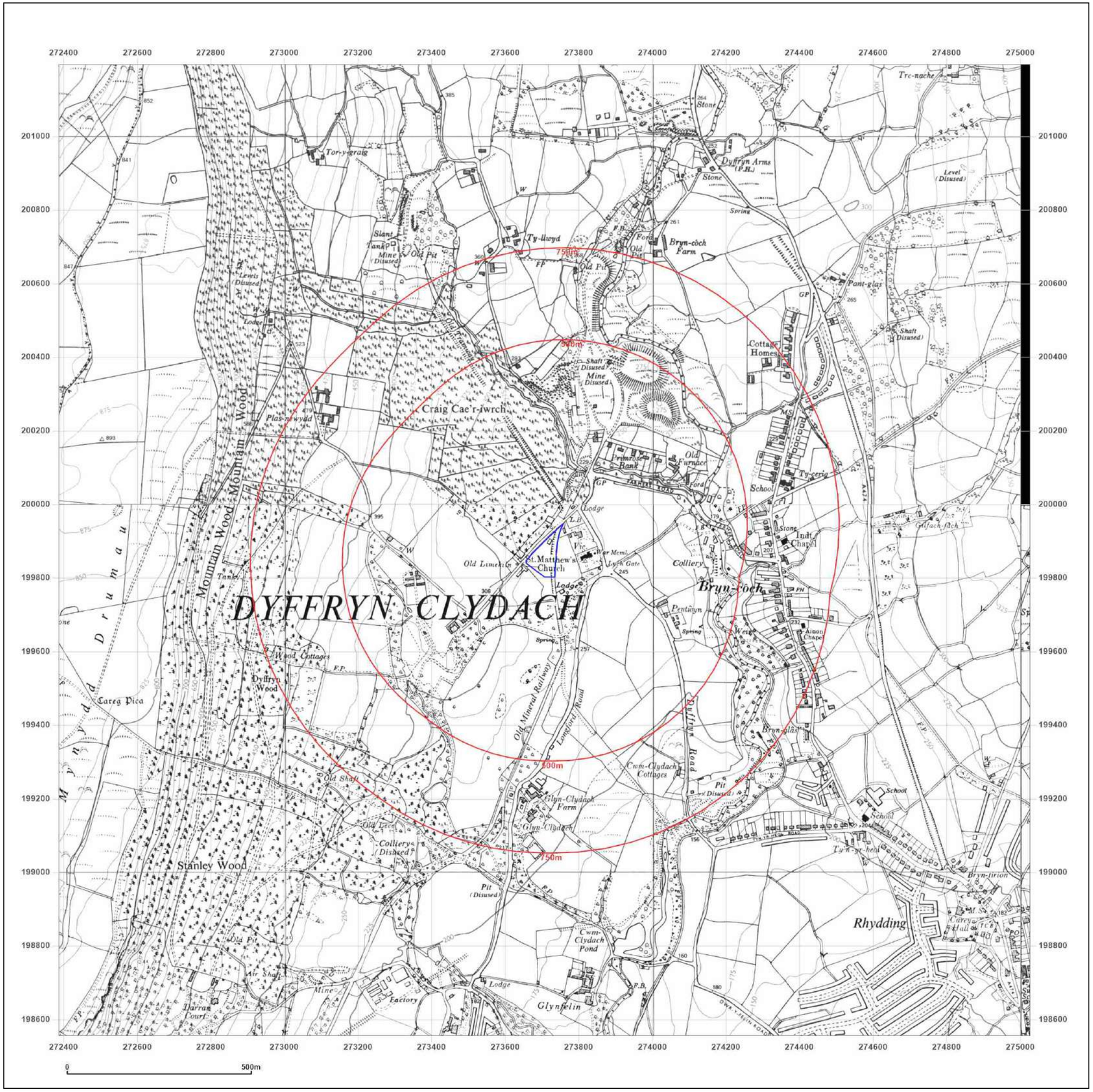

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: Provisional

Map date: **1962-1964**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1964
Revised 1964
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1964
Revised 1964
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1964
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1962
Revised 1962
Edition N/A
Copyright N/A
Levelled N/A

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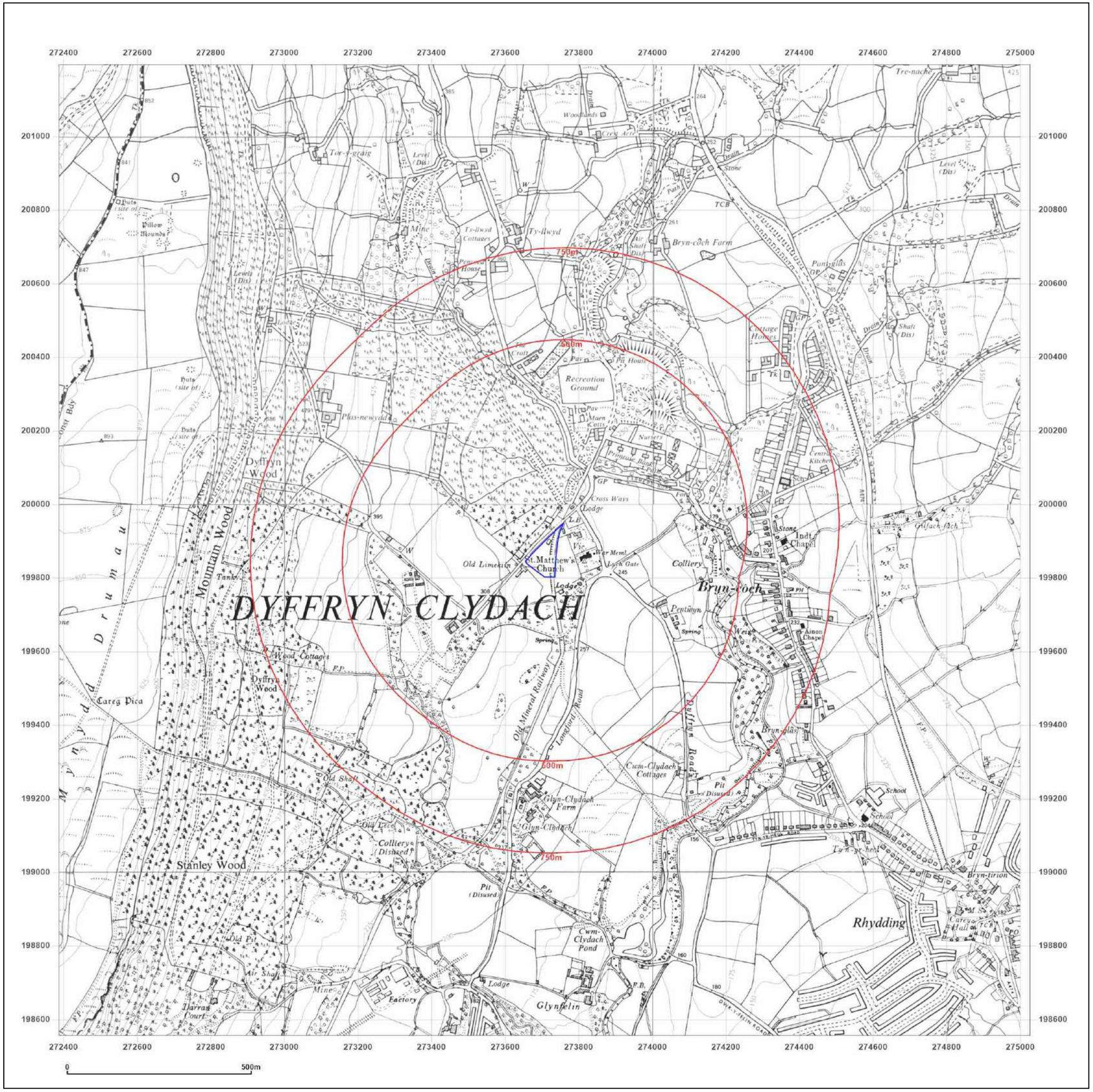

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: Provisional

Map date: **1966-1967**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1962
Revised 1967
Edition N/A
Copyright 1965
Levelled N/A

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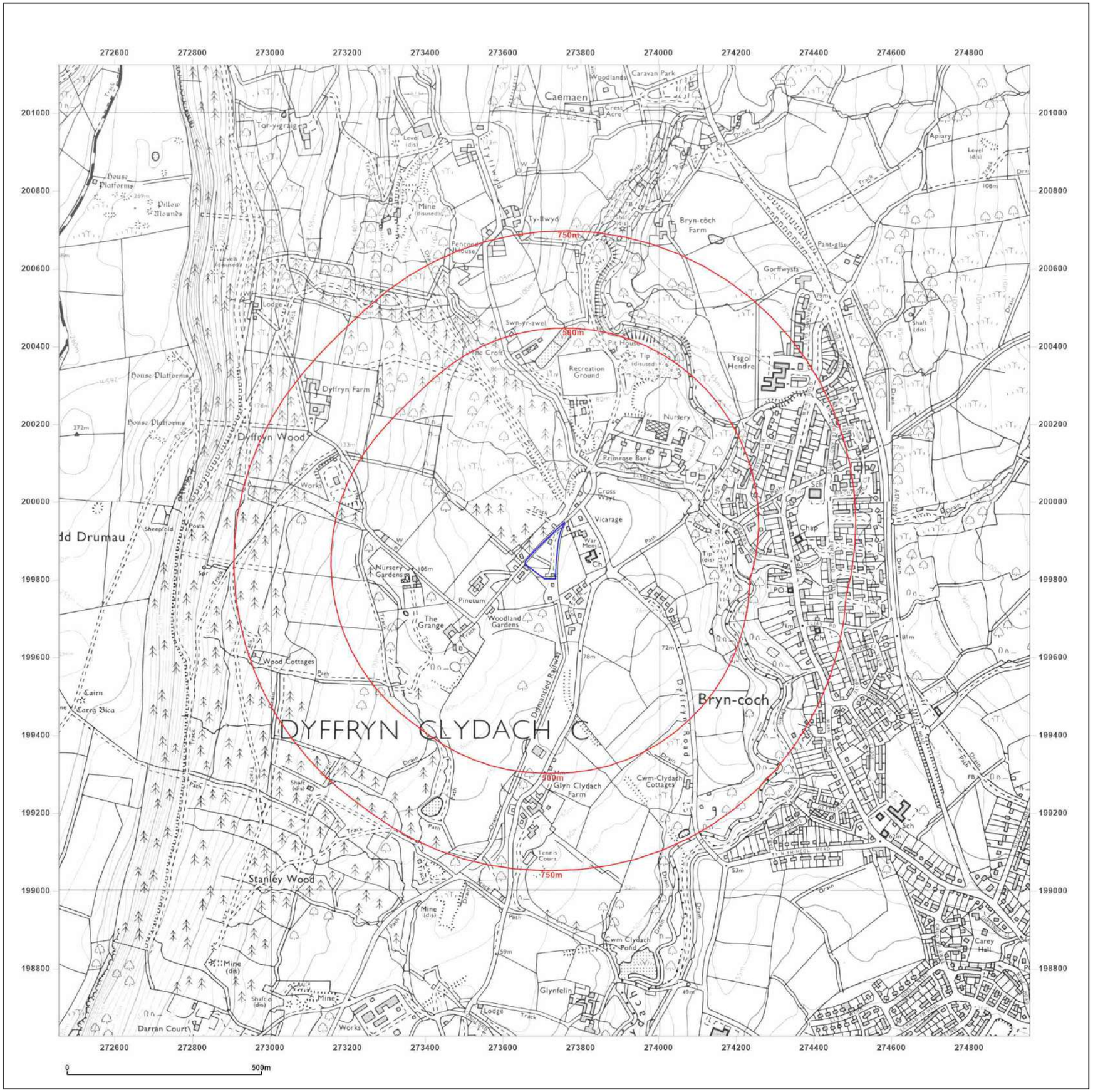

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **1980**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1973
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1976
Revised 1980
Edition N/A
Copyright 1980
Levelled 1978

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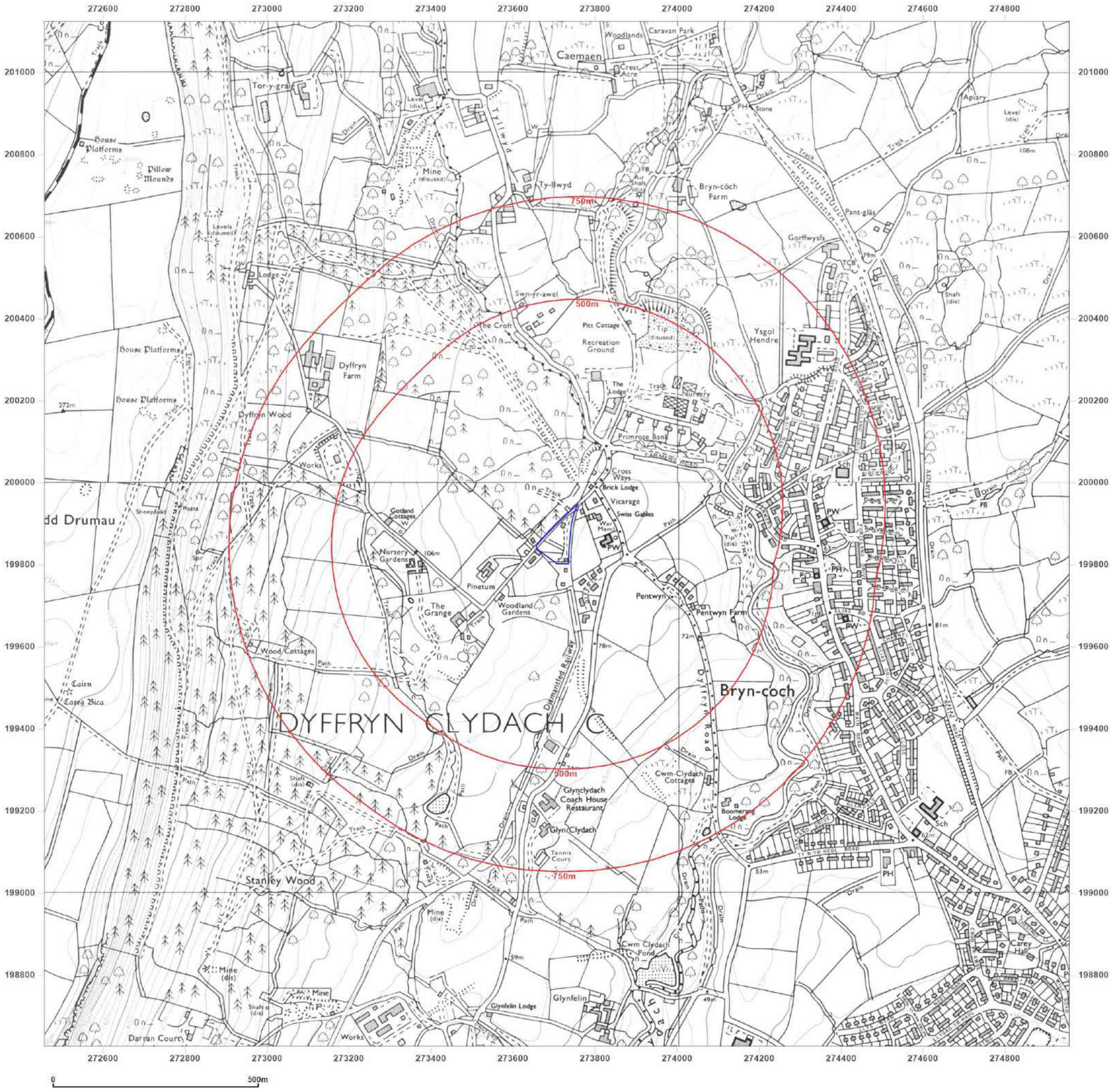

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **1992**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1990
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1989
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

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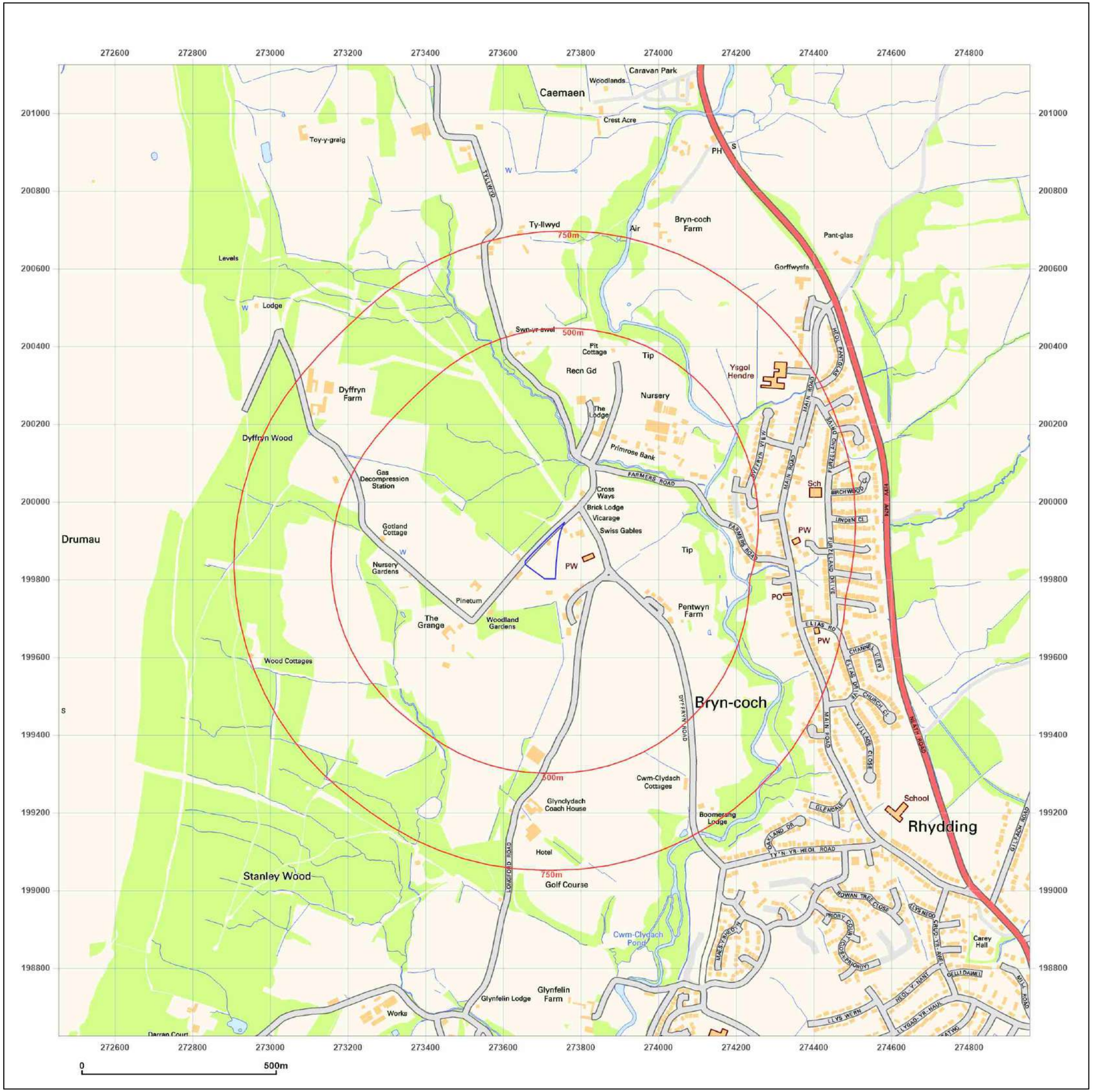

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

N
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2001

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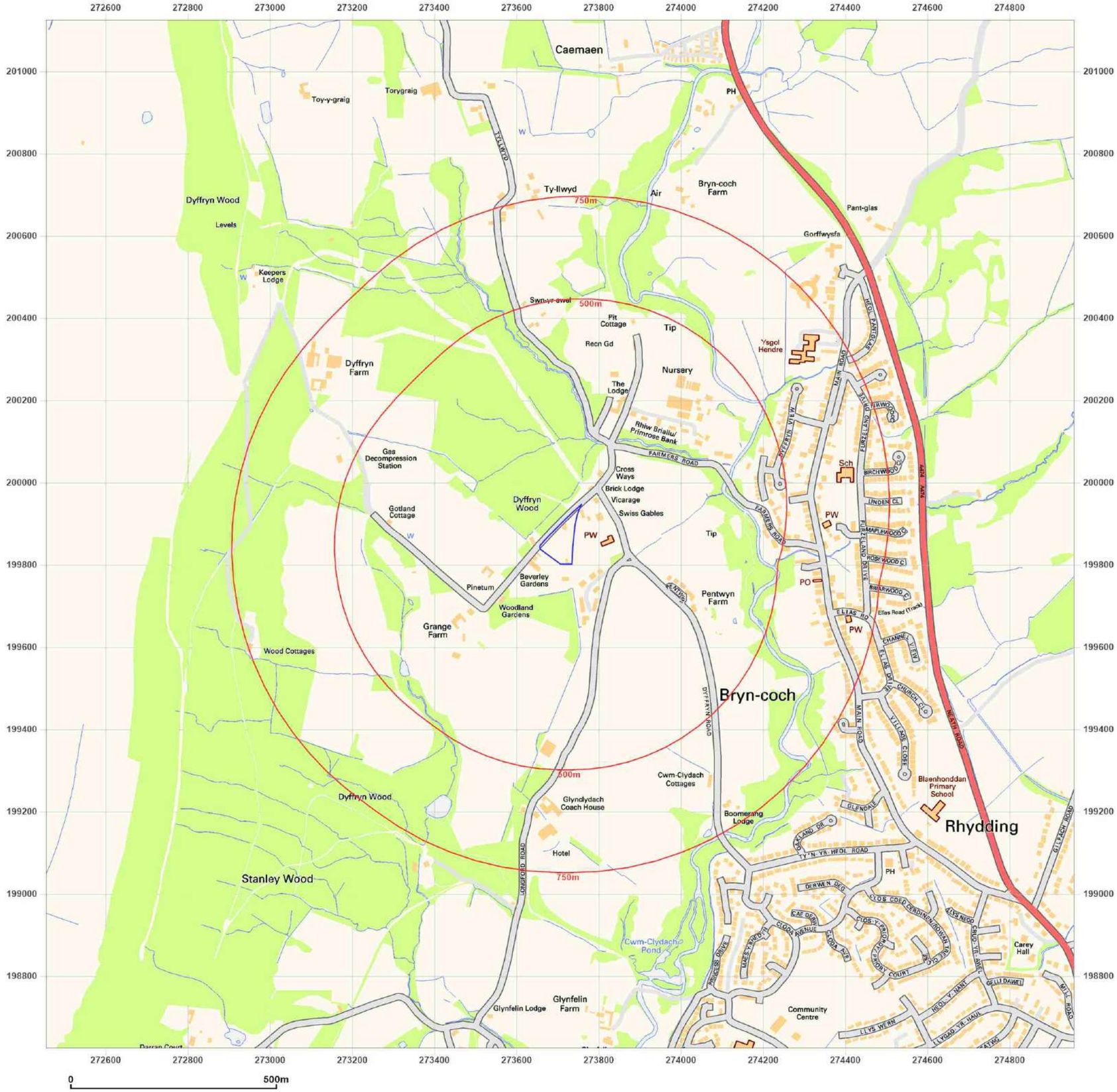

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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2010

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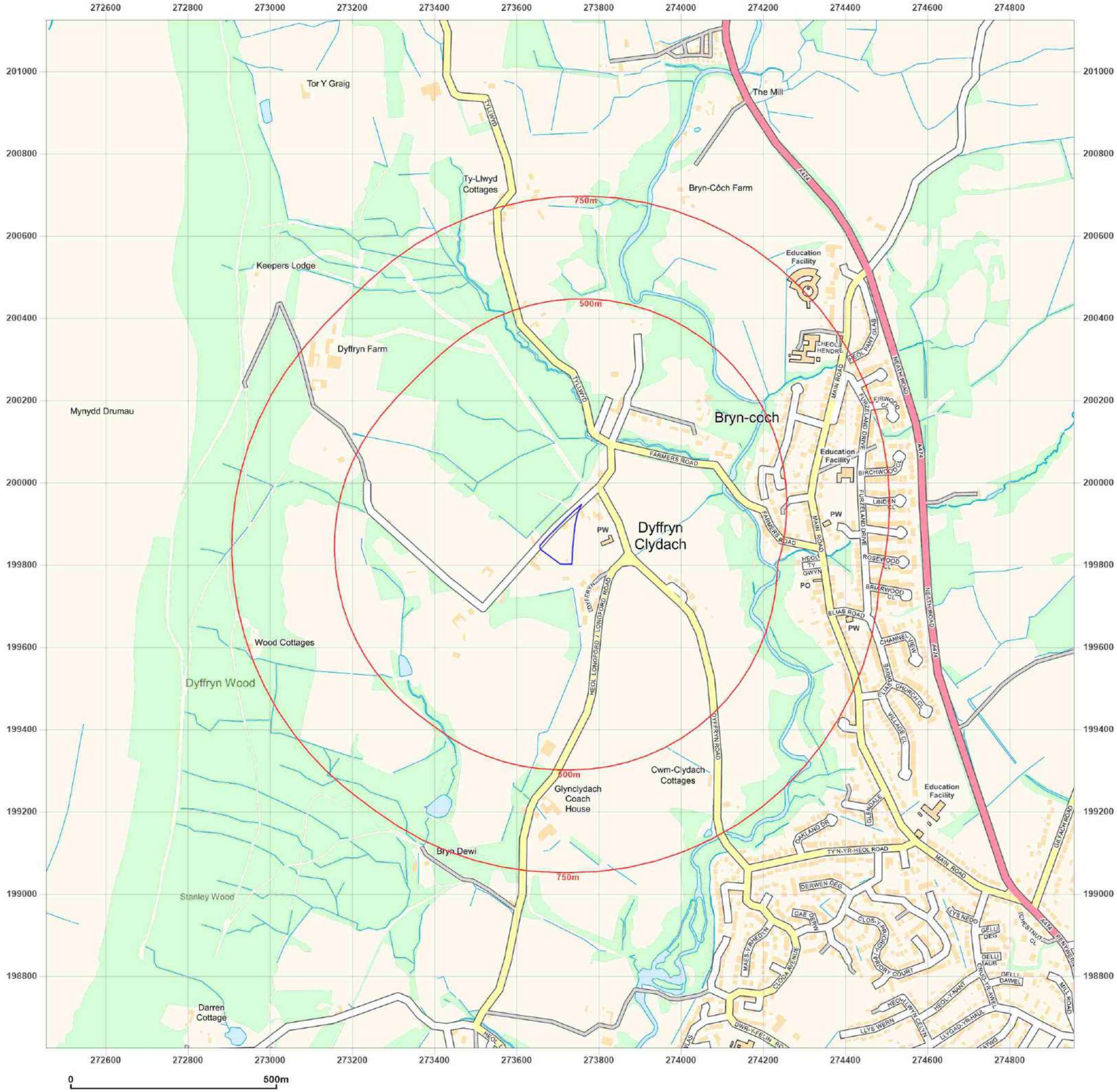

Quantum Geotechnical

Site Details:

THE PADDOCK, DYFFRYN
CLYDACH, SA10 7BQ

Client Ref: Q0759
Report Ref: HMD-213-8541161
Grid Ref: 273706, 199875

Map Name: National Grid

Map date: **2022**

Scale: 1:10,000

Printed at: 1:10,000

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2022

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APPENDIX III – GROUNDSURE ENVIRO+GEO INSIGHT REPORT

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

THE PADDOCK, DYFFRYN CLYDACH, SA10 7BQ

Order Details

Date: 22/02/2022

Your ref: Q0759

Our Ref: HMD-213-8541162

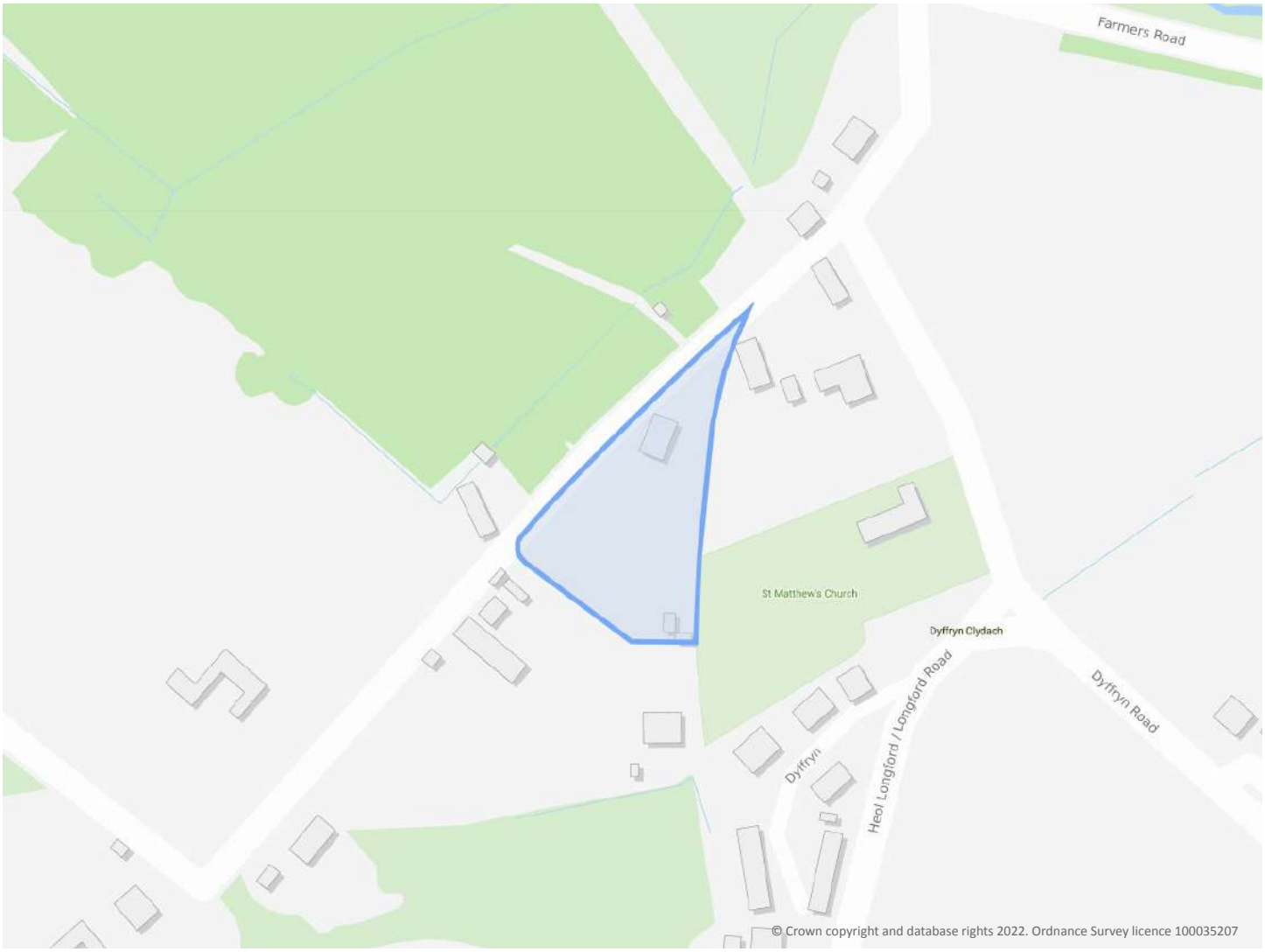
Client: Quantum Geotechnic Ltd

Site Details

Location: 273715 199874

Area: 0.65 ha

Authority: Castell-nedd Port Talbot - Neath Port Talbot County Borough



Summary of findings p. 2

OS MasterMap site plan p.13

Aerial image p. 8

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Contact us with any questions at:
info@groundsure.com
08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	**1.1**	**Historical industrial land uses**	2	7	44	78	-
19	**1.2**	**Historical tanks**	0	0	2	2	-
20	**1.3**	**Historical energy features**	0	0	1	1	-
20	1.4	Historical petrol stations	0	0	0	0	-
21	1.5	Historical garages	0	0	0	0	-
21	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
22	**2.1**	**Historical industrial land uses**	2	9	63	107	-
29	**2.2**	**Historical tanks**	0	0	3	2	-
30	**2.3**	**Historical energy features**	0	0	2	2	-
30	2.4	Historical petrol stations	0	0	0	0	-
30	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
31	3.1	Active or recent landfill	0	0	0	0	-
31	3.2	Historical landfill (BGS records)	0	0	0	0	-
32	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
32	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
32	3.5	Historical waste sites	0	0	0	0	-
32	3.6	Licensed waste sites	0	0	0	0	-
32	**3.7**	**Waste exemptions**	0	0	0	2	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
34	**4.1**	**Recent industrial land uses**	0	0	1	-	-
35	4.2	Current or recent petrol stations	0	0	0	0	-
35	4.3	Electricity cables	0	0	0	0	-
35	**4.4**	**Gas pipelines**	0	0	0	1	-
35	4.5	Sites determined as Contaminated Land	0	0	0	0	-

35	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
36	4.7	Regulated explosive sites	0	0	0	0	-
36	4.8	Hazardous substance storage/usage	0	0	0	0	-
36	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
36	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
36	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
37	4.12	Radioactive Substance Authorisations	0	0	0	0	-
37	**4.13**	**Licensed Discharges to controlled waters**	0	0	2	5	-
38	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
38	4.15	Pollutant release to public sewer	0	0	0	0	-
38	4.16	List 1 Dangerous Substances	0	0	0	0	-
38	4.17	List 2 Dangerous Substances	0	0	0	0	-
39	**4.18**	**Pollution Incidents (EA/NRW)**	0	1	0	6	-
40	4.19	Pollution inventory substances	0	0	0	0	-
40	4.20	Pollution inventory waste transfers	0	0	0	0	-
40	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
41	**5.1**	**Superficial aquifer**	Identified (within 500m)				
43	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
45	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
46	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
46	5.5	Groundwater vulnerability- local information	None (within 0m)				
47	5.6	Groundwater abstractions	0	0	0	0	0
48	**5.7**	**Surface water abstractions**	0	0	0	0	2
48	5.8	Potable abstractions	0	0	0	0	0
49	5.9	Source Protection Zones	0	0	0	0	-
49	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
50	**6.1**	**Water Network (OS MasterMap)**	0	3	14	-	-

52	**6.2**	**Surface water features**	0	3	13	-	-
52	**6.3**	**WFD Surface water body catchments**	1	-	-	-	-
53	**6.4**	**WFD Surface water bodies**	0	0	0	-	-
53	**6.5**	**WFD Groundwater bodies**	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
54	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
54	7.2	Historical Flood Events	0	0	0	-	-
54	7.3	Flood Defences	0	0	0	-	-
55	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
55	7.5	Flood Storage Areas	0	0	0	-	-
56	7.6	Flood Zone 2	None (within 50m)				
56	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
57	**8.1**	**Surface water flooding**	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
59	**9.1**	**Groundwater flooding**	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
60	**10.1**	**Sites of Special Scientific Interest (SSSI)**	0	0	0	0	1
61	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
61	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
61	10.4	Special Protection Areas (SPA)	0	0	0	0	0
61	10.5	National Nature Reserves (NNR)	0	0	0	0	0
62	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
62	**10.7**	**Designated Ancient Woodland**	0	3	3	20	70
66	10.8	Biosphere Reserves	0	0	0	0	0
66	10.9	Forest Parks	0	0	0	0	0
66	10.10	Marine Conservation Zones	0	0	0	0	0
66	10.11	Green Belt	0	0	0	0	0
66	10.12	Proposed Ramsar sites	0	0	0	0	0

67	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
67	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
67	10.15	Nitrate Sensitive Areas	0	0	0	0	0
67	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
68	10.17	SSSI Impact Risk Zones	0	-	-	-	-
68	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
69	11.1	World Heritage Sites	0	0	0	-	-
70	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
70	11.3	National Parks	0	0	0	-	-
70	**11.4**	**Listed Buildings**	0	0	4	-	-
71	11.5	Conservation Areas	0	0	0	-	-
71	11.6	Scheduled Ancient Monuments	0	0	0	-	-
71	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
72	**12.1**	**Agricultural Land Classification**	Grade 5 (within 250m)				
73	12.2	Open Access Land	0	0	0	-	-
73	12.3	Tree Felling Licences	0	0	0	-	-
73	12.4	Environmental Stewardship Schemes	0	0	0	-	-
73	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
74	13.1	Priority Habitat Inventory	0	0	0	-	-
74	13.2	Habitat Networks	0	0	0	-	-
74	13.3	Open Mosaic Habitat	0	0	0	-	-
74	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
75	**14.1**	**10k Availability**	Identified (within 500m)				
76	**14.2**	**Artificial and made ground (10k)**	1	0	4	7	-
78	**14.3**	**Superficial geology (10k)**	1	0	1	3	-

79	14.4	Landslip (10k)	0	0	0	0	-
80	14.5	Bedrock geology (10k)	1	0	1	3	-
81	14.6	Bedrock faults and other linear features (10k)	0	0	1	5	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
82	15.1	50k Availability	Identified (within 500m)				
83	15.2	Artificial and made ground (50k)	0	0	1	1	-
84	15.3	Artificial ground permeability (50k)	0	0	-	-	-
85	15.4	Superficial geology (50k)	1	0	0	1	-
86	15.5	Superficial permeability (50k)	Identified (within 50m)				
86	15.6	Landslip (50k)	0	0	0	0	-
86	15.7	Landslip permeability (50k)	None (within 50m)				
87	15.8	Bedrock geology (50k)	1	0	0	2	-
88	15.9	Bedrock permeability (50k)	Identified (within 50m)				
88	15.10	Bedrock faults and other linear features (50k)	0	0	1	4	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
89	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
90	17.1	Shrink swell clays	Very low (within 50m)				
91	17.2	Running sands	Very low (within 50m)				
92	17.3	Compressible deposits	Negligible (within 50m)				
93	17.4	Collapsible deposits	Very low (within 50m)				
94	17.5	Landslides	Very low (within 50m)				
95	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
96	18.1	Natural cavities	0	0	0	0	-
97	18.2	BritPits	0	0	1	2	-
97	18.3	Surface ground workings	0	0	46	-	-
99	18.4	Underground workings	0	0	6	6	43
102	18.5	Historical Mineral Planning Areas	0	0	0	0	-

102	18.6	Non-coal mining	0	0	0	0	0
102	18.7	Mining cavities	0	0	0	0	0
102	18.8	JPB mining areas	None (within 0m)				
102	**18.9**	**Coal mining**	Identified (within 0m)				
103	18.10	Brine areas	None (within 0m)				
103	18.11	Gypsum areas	None (within 0m)				
103	18.12	Tin mining	None (within 0m)				
103	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
104	**19.1**	**Radon**	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
105	**20.1**	**BGS Estimated Background Soil Chemistry**	1	0	-	-	-
105	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
105	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
106	21.1	Underground railways (London)	0	0	0	-	-
106	21.2	Underground railways (Non-London)	0	0	0	-	-
107	21.3	Railway tunnels	0	0	0	-	-
107	**21.4**	**Historical railway and tunnel features**	1	4	6	-	-
108	21.5	Royal Mail tunnels	0	0	0	-	-
108	21.6	Historical railways	0	0	0	-	-
108	21.7	Railways	0	0	0	-	-
108	21.8	Crossrail 1	0	0	0	0	-
108	21.9	Crossrail 2	0	0	0	0	-
109	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 14/04/2020

Site Area: 0.65ha

Recent site history - 2017 aerial photograph

Capture Date: 17/06/2017

Site Area: 0.65ha

Recent site history - 2010 aerial photograph

Capture Date: 23/05/2010

Site Area: 0.65ha

Recent site history - 2009 aerial photograph

Capture Date: 12/10/2009

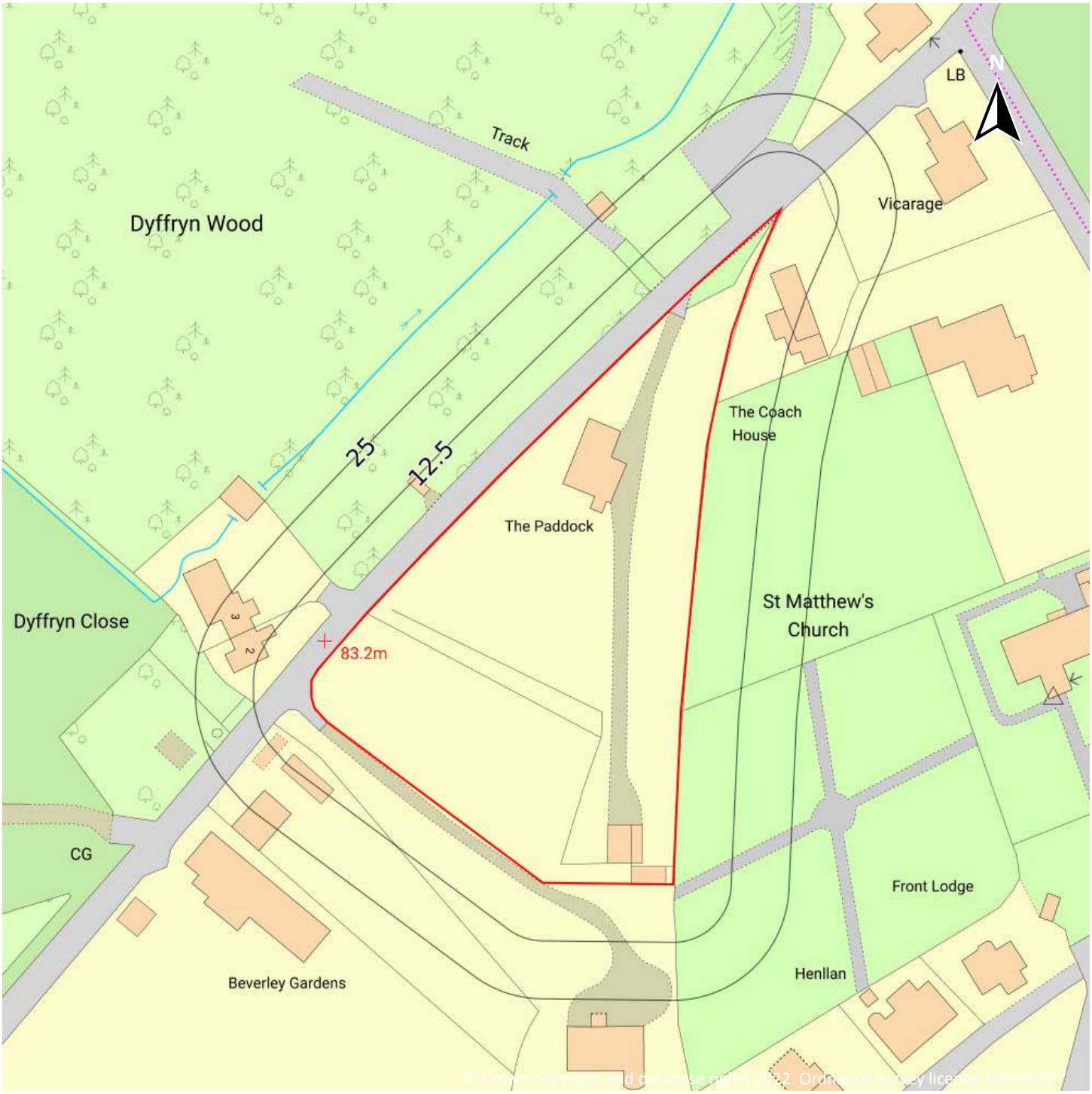
Site Area: 0.65ha

Recent site history - 2000 aerial photograph

Capture Date: 18/06/2000

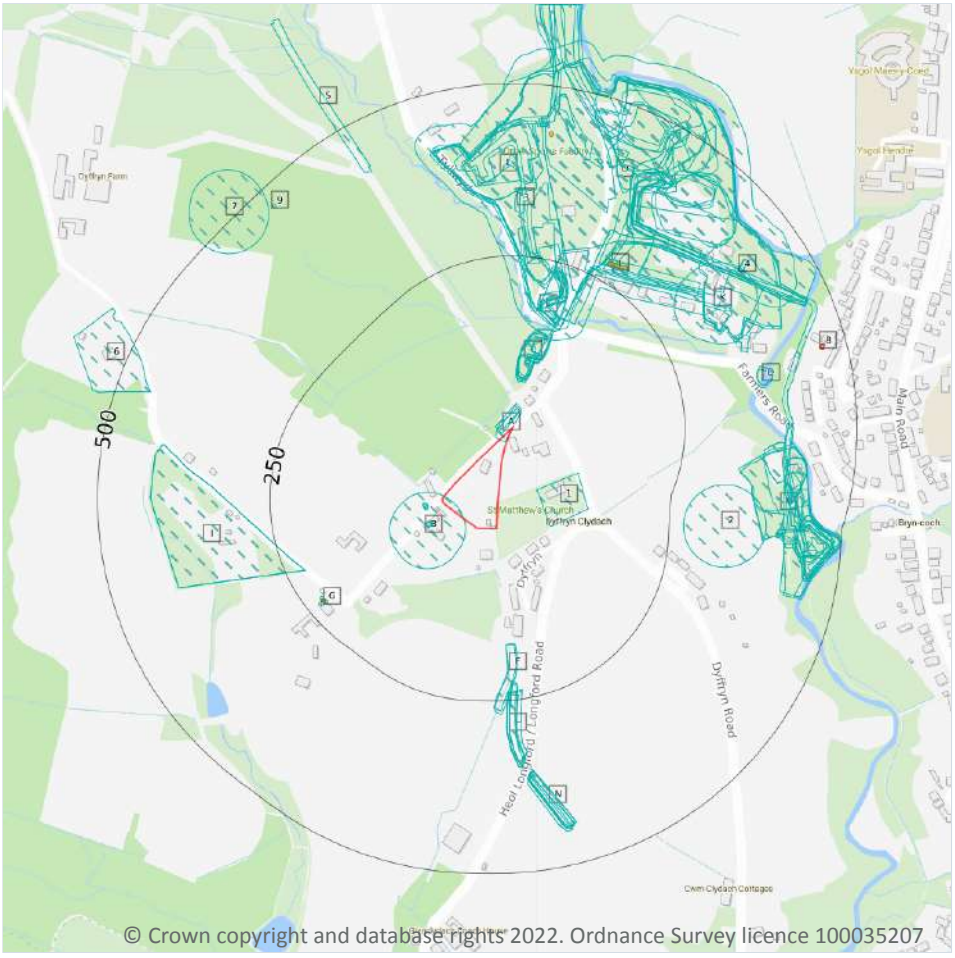
Site Area: 0.65ha

OS MasterMap site plan



Site Area: 0.65ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

1.1 Historical industrial land uses

Records within 500m	131

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Mineral Railway Sidings**	**1921**	**345587**

ID	Location	Land use	Dates present	Group ID
B	**On site**	**Old Lime Kiln**	**1921**	**355765**
A	4m NW	Railway Sidings	1914	337519
A	7m NW	Mineral Railway Sidings	1914	358930
B	22m W	Old Lime Kiln	1938	374946
B	23m W	Old Lime Kiln	1948	371465
B	24m W	Old Lime Kiln	1964	341268
B	31m SW	Old Lime Kiln	1914	373276
B	34m SW	Old Limeklin	1914	359081
1	55m E	Grave Yard	1877	322932
C	67m N	Unspecified Heap	1966 - 1992	277078
C	68m N	Unspecified Heap	1921	309521
C	69m N	Unspecified Ground Workings	1964	276739
C	73m N	Unspecified Heap	1938	278492
C	73m N	Unspecified Ground Workings	1948	318226
C	75m N	Unspecified Ground Workings	1914	287477
C	79m N	Unspecified Ground Workings	1914	272435
C	96m N	Old Coal Shaft	1921	250741
C	103m N	Old Coal Shaft	1914	285496
D	140m N	Colliery	1914	281532
D	154m NE	Colliery	1921	298396
D	158m NE	Mineral Railway Sidings	1914	275674
D	158m NE	Disused Colliery	1948	310183
E	159m N	Unspecified Ground Workings	1921	290951
E	163m N	Unspecified Ground Workings	1938	276800
E	163m N	Unspecified Ground Workings	1948	294917
D	164m NE	Colliery	1914	277499
E	165m N	Unspecified Ground Workings	1914	301986
F	168m S	Cuttings	1964	348224

ID	Location	Land use	Dates present	Group ID
E	169m N	Unspecified Ground Workings	1966 - 1980	312236
F	169m S	Cuttings	1938 - 1948	353484
D	172m N	Unspecified Disused Mine	1964	261068
D	174m NE	Railway Sidings	1914	310580
D	175m NE	Mineral Railway Sidings	1921	286297
D	176m N	Disused Colliery	1938	279780
E	179m N	Unspecified Ground Workings	1964	308889
E	214m N	Unspecified Heap	1948	309926
E	216m N	Unspecified Ground Workings	1966 - 1980	293044
E	218m N	Unspecified Heap	1938	304737
D	219m NE	Colliery	1897	284867
D	219m NE	Railway Sidings	1877 - 1897	304608
G	220m SW	Gasometer	1877	359473
G	221m SW	Gasometer	1914	377417
H	221m S	Unspecified Pit	1938 - 1948	348343
G	223m SW	Gasometer	1914	356570
I	223m SW	Nursery	1992	348743
I	223m SW	Nursery	1978	377889
H	227m S	Unspecified Pit	1914	365418
G	229m SW	Gasometer	1921	321155
H	236m S	Unspecified Pit	1992	342396
H	236m S	Unspecified Pit	1978	370380
H	238m S	Unspecified Pit	1964	340354
H	242m S	Unspecified Pit	1921	366311
J	267m NE	Unspecified Tanks	1921	294869
D	270m NE	Nursery	1992	307436
2	271m E	Unspecified Shaft	1914	322468
J	273m NE	Unspecified Tanks	1914	290678

ID	Location	Land use	Dates present	Group ID
J	273m NE	Unspecified Tanks	1914	312343
K	285m NE	Old Furnace	1948	271870
K	285m NE	Nursery	1966 - 1980	284140
3	312m N	Unspecified Heap	1938 - 1948	274068
K	318m NE	Old Furnace	1964	304137
K	320m NE	Old Furnace	1877	312091
D	320m NE	Tramway Sidings	1921	306875
K	320m NE	Old Furnace	1938	282887
K	322m NE	Old Furnace	1897 - 1914	286212
L	332m N	Refuse Heap	1948	301967
L	332m N	Refuse Heap	1938	282404
M	334m E	Colliery	1964	348977
D	336m NE	Refuse Heaps	1938	303611
M	337m E	Colliery	1938	379053
K	337m NE	Tramway Sidings	1914	2367885
D	339m NE	Unspecified Ground Workings	1966	313061
D	340m NE	Unspecified Ground Workings	1948	298264
D	340m NE	Unspecified Ground Workings	1980	302093
D	342m NE	Colliery	1877	299911
K	350m E	Old Furnace	1921	285257
N	353m S	Unspecified Heap	1978	353936
N	353m S	Unspecified Heap	1992	373271
K	354m NE	Old Furnace	1914	277115
L	355m N	Refuse Heap	1921	284778
N	356m S	Unspecified Heap	1914	345852
L	357m N	Refuse Heap	1914	294830
D	358m NE	Unspecified Heap	1966	260171
N	358m S	Unspecified Heap	1921	371505

ID	Location	Land use	Dates present	Group ID
N	361m S	Unspecified Ground Workings	1938	372497
O	362m E	Unspecified Heap	1964 - 1966	314795
O	362m E	Unspecified Heap	1948	280444
D	363m NE	Unspecified Heaps	1948	255180
N	363m S	Unspecified Ground Workings	1948	341768
M	366m E	Colliery	1948	355585
M	367m E	Unspecified Disused Tip	1992	354777
M	367m E	Unspecified Disused Tip	1978	364236
M	368m E	Unspecified Commercial/Industrial	1914	358915
D	384m NE	Unspecified Ground Workings	1897	287381
M	394m E	Tramway Sidings	1897	377901
4	395m NE	Unspecified Pit	1877	268508
D	399m N	Refuse Heap	1914 - 1921	273259
M	399m E	Refuse Heap	1921	346181
M	401m E	Refuse Heap	1938	365465
M	401m E	Railway Sidings	1938 - 1948	379881
M	401m E	Refuse Heap	1914	375271
D	401m NE	Refuse Heap	1921	275392
M	402m E	Refuse Heap	1948	348770
M	403m E	Refuse Heap	1914	354452
D	403m N	Unspecified Heap	1938	303309
D	404m N	Unspecified Disused Tip	1980 - 1992	282484
D	404m NE	Refuse Heap	1914	285041
D	406m NE	Refuse Heap	1914	307907
M	406m E	Railway Building	1921	323469
M	406m E	Tramway Sidings	1921	351406
M	408m E	Unspecified Shaft	1914	352636
M	411m E	Tramway Sidings	1914	353910

ID	Location	Land use	Dates present	Group ID
D	416m NE	Refuse Heap	1921	278813
M	419m E	Unspecified Shaft	1921	322498
M	419m E	Unspecified Ground Workings	1897	369502
M	422m E	Unspecified Ground Workings	1948	373421
5	424m NW	Cuttings	1938 - 1948	275808
M	433m E	Unspecified Ground Workings	1921	348418
M	434m E	Unspecified Ground Workings	1914	367522
D	439m N	Unspecified Disused Shaft	1964	269342
M	439m E	Unspecified Ground Workings	1914	366823
D	440m N	Unspecified Old Shaft	1948	273719
D	443m N	Unspecified Old Shaft	1938	295154
D	443m N	Unspecified Ground Workings	1948 - 1964	310213
M	446m E	Pumping Pit	1877	326346
M	447m E	Railway Building	1921	323470
6	451m W	Unspecified Works	1980 - 1992	313450
7	451m NW	Old Coal Pit	1914 - 1921	283827
M	451m E	Unspecified Ground Workings	1948	364162
9	467m NW	Old Coal Pit	1914	316251

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**4**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
G	222m SW	Unspecified Tank	1936	38283
G	222m SW	Gasometer	1899 - 1918	40964
J	274m NE	Tanks	1918	34909
D	427m N	Unspecified Tank	1877	34410

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	2

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
G	222m SW	Gasometer	1899 - 1918	23072
8	461m E	Electricity Substation	1972 - 1989	18033

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

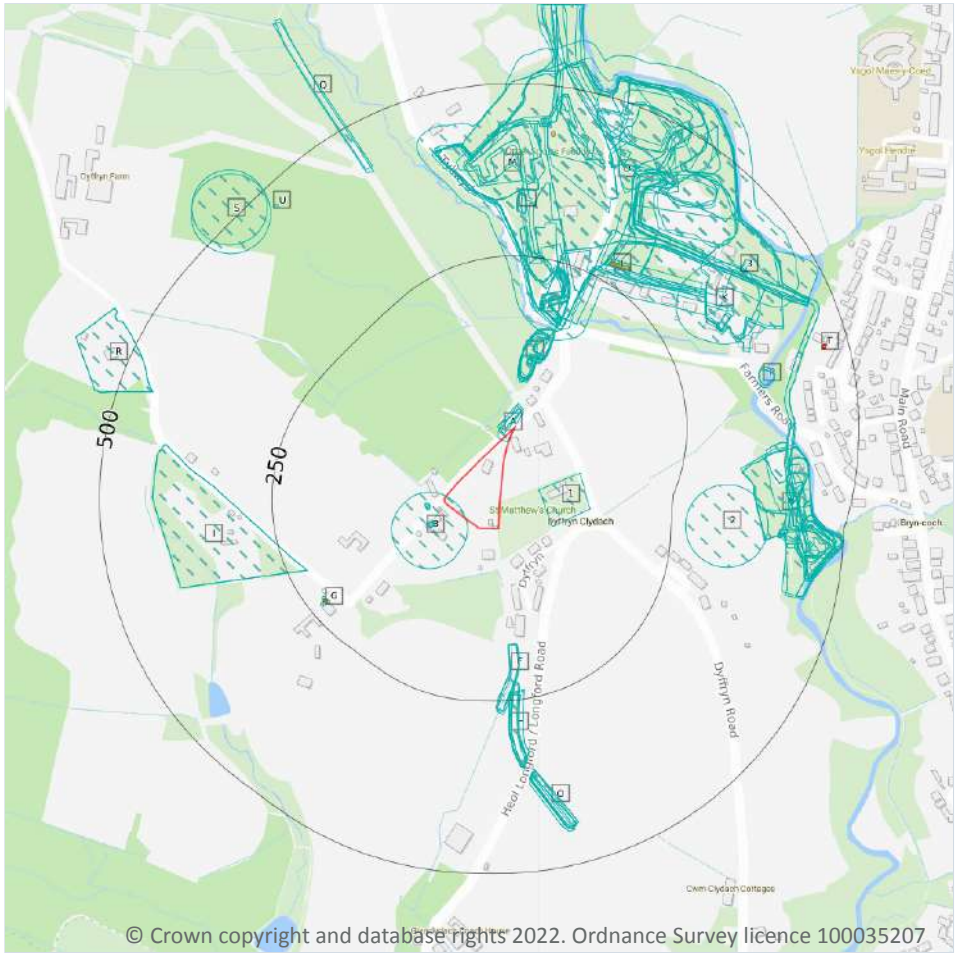
1.6 Historical military land

Records within 500m	0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

2.1 Historical industrial land uses

Records within 500m	181

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Mineral Railway Sidings**	**1921**	**345587**
B	**On site**	**Old Lime Kiln**	**1921**	**355765**
A	4m NW	Railway Sidings	1914	337519

ID	Location	Land Use	Date	Group ID
A	7m NW	Mineral Railway Sidings	1914	358930
A	7m NW	Mineral Railway Sidings	1914	358930
B	22m W	Old Lime Kiln	1938	374946
B	23m W	Old Lime Kiln	1948	371465
B	24m W	Old Lime Kiln	1964	341268
B	31m SW	Old Lime Kiln	1914	373276
B	34m SW	Old Limeklin	1914	359081
B	34m SW	Old Limeklin	1914	359081
1	55m E	Grave Yard	1877	322932
C	67m N	Unspecified Heap	1980	277078
C	67m N	Unspecified Heap	1992	277078
C	67m N	Unspecified Heap	1966	277078
C	68m N	Unspecified Heap	1921	309521
C	69m N	Unspecified Ground Workings	1964	276739
C	73m N	Unspecified Heap	1938	278492
C	73m N	Unspecified Heap	1938	278492
C	73m N	Unspecified Ground Workings	1948	318226
C	75m N	Unspecified Ground Workings	1914	287477
C	75m N	Unspecified Ground Workings	1914	287477
C	79m N	Unspecified Ground Workings	1914	272435
C	96m N	Old Coal Shaft	1921	250741
C	103m N	Old Coal Shaft	1914	285496
C	103m N	Old Coal Shaft	1914	285496
C	105m N	Old Coal Shaft	1914	285496
D	140m N	Colliery	1914	281532
D	154m NE	Colliery	1921	298396
D	158m NE	Disused Colliery	1948	310183
D	158m NE	Mineral Railway Sidings	1914	275674

ID	Location	Land Use	Date	Group ID
D	158m NE	Mineral Railway Sidings	1914	275674
E	159m N	Unspecified Ground Workings	1921	290951
E	163m N	Unspecified Ground Workings	1938	276800
E	163m N	Unspecified Ground Workings	1938	276800
E	163m N	Unspecified Ground Workings	1948	294917
D	164m NE	Colliery	1914	277499
D	164m NE	Colliery	1914	277499
E	165m N	Unspecified Ground Workings	1914	301986
E	166m N	Unspecified Ground Workings	1914	301986
E	166m N	Unspecified Ground Workings	1914	301986
F	168m S	Cuttings	1964	348224
E	169m N	Unspecified Ground Workings	1980	312236
E	169m N	Unspecified Ground Workings	1966	312236
F	169m S	Cuttings	1948	353484
F	171m S	Cuttings	1938	353484
D	172m N	Unspecified Disused Mine	1964	261068
D	174m NE	Railway Sidings	1914	310580
D	175m NE	Mineral Railway Sidings	1921	286297
D	176m N	Disused Colliery	1938	279780
D	176m N	Disused Colliery	1938	279780
E	179m N	Unspecified Ground Workings	1964	308889
E	214m N	Unspecified Heap	1948	309926
E	216m N	Unspecified Ground Workings	1980	293044
E	216m N	Unspecified Ground Workings	1966	293044
E	218m N	Unspecified Heap	1938	304737
E	218m N	Unspecified Heap	1938	304737
D	219m NE	Colliery	1897	284867
D	219m NE	Railway Sidings	1897	304608

ID	Location	Land Use	Date	Group ID
G	220m SW	Gasometer	1877	359473
G	221m SW	Gasometer	1914	377417
H	221m S	Unspecified Pit	1938	348343
H	221m S	Unspecified Pit	1938	348343
G	223m SW	Gasometer	1914	356570
G	223m SW	Gasometer	1914	356570
I	223m SW	Nursery	1992	348743
I	223m SW	Nursery	1978	377889
H	227m S	Unspecified Pit	1914	365418
G	229m SW	Gasometer	1921	321155
H	236m S	Unspecified Pit	1992	342396
H	236m S	Unspecified Pit	1978	370380
H	238m S	Unspecified Pit	1964	340354
H	242m S	Unspecified Pit	1921	366311
H	242m S	Unspecified Pit	1948	348343
J	267m NE	Unspecified Tanks	1921	294869
D	270m NE	Nursery	1992	307436
2	271m E	Unspecified Shaft	1914	322468
J	273m NE	Unspecified Tanks	1914	290678
J	273m NE	Unspecified Tanks	1914	312343
J	273m NE	Unspecified Tanks	1914	312343
K	285m NE	Old Furnace	1948	271870
K	285m NE	Nursery	1980	284140
K	285m NE	Nursery	1966	284140
L	312m N	Unspecified Heap	1948	274068
L	313m N	Unspecified Heap	1938	274068
L	313m N	Unspecified Heap	1938	274068
K	318m NE	Old Furnace	1964	304137

ID	Location	Land Use	Date	Group ID
K	320m NE	Old Furnace	1877	312091
D	320m NE	Tramway Sidings	1921	306875
K	320m NE	Old Furnace	1938	282887
K	322m NE	Old Furnace	1897	286212
K	329m NE	Old Furnace	1914	286212
K	329m NE	Old Furnace	1914	286212
M	332m N	Refuse Heap	1948	301967
M	332m N	Refuse Heap	1938	282404
M	332m N	Refuse Heap	1938	282404
N	334m E	Colliery	1964	348977
D	336m NE	Refuse Heaps	1938	303611
D	336m NE	Refuse Heaps	1938	303611
N	337m E	Colliery	1938	379053
N	337m E	Colliery	1938	379053
K	337m NE	Tramway Sidings	1914	2367885
K	337m NE	Tramway Sidings	1914	2367885
D	339m NE	Unspecified Ground Workings	1966	313061
D	340m NE	Unspecified Ground Workings	1948	298264
D	340m NE	Unspecified Ground Workings	1980	302093
D	342m NE	Colliery	1877	299911
K	350m E	Old Furnace	1921	285257
O	353m S	Unspecified Heap	1992	373271
O	353m S	Unspecified Heap	1978	353936
K	354m NE	Old Furnace	1914	277115
M	355m N	Refuse Heap	1921	284778
O	356m S	Unspecified Heap	1914	345852
M	357m N	Refuse Heap	1914	294830
D	358m NE	Unspecified Heap	1966	260171

ID	Location	Land Use	Date	Group ID
O	358m S	Unspecified Heap	1921	371505
D	360m N	Railway Sidings	1877	304608
O	361m S	Unspecified Ground Workings	1938	372497
O	361m S	Unspecified Ground Workings	1938	372497
P	362m E	Unspecified Heap	1966	314795
P	362m E	Unspecified Heap	1964	314795
P	362m E	Unspecified Heap	1948	280444
D	363m NE	Unspecified Heaps	1948	255180
O	363m S	Unspecified Ground Workings	1948	341768
N	366m E	Colliery	1948	355585
N	367m E	Unspecified Disused Tip	1992	354777
N	367m E	Unspecified Disused Tip	1978	364236
N	368m E	Unspecified Commercial/Industrial	1914	358915
N	368m E	Unspecified Commercial/Industrial	1914	358915
D	384m NE	Unspecified Ground Workings	1897	287381
N	394m E	Tramway Sidings	1897	377901
3	395m NE	Unspecified Pit	1877	268508
D	399m N	Refuse Heap	1921	273259
N	399m E	Refuse Heap	1921	346181
N	401m E	Refuse Heap	1938	365465
N	401m E	Railway Sidings	1938	379881
N	401m E	Refuse Heap	1938	365465
N	401m E	Refuse Heap	1914	375271
D	401m NE	Refuse Heap	1921	275392
N	402m E	Railway Sidings	1948	379881
N	402m E	Refuse Heap	1948	348770
N	403m E	Refuse Heap	1914	354452
N	403m E	Refuse Heap	1914	354452

ID	Location	Land Use	Date	Group ID
D	403m N	Unspecified Heap	1938	303309
D	403m N	Unspecified Heap	1938	303309
D	404m N	Refuse Heap	1914	273259
D	404m N	Unspecified Disused Tip	1980	282484
D	404m N	Unspecified Disused Tip	1992	282484
D	404m NE	Refuse Heap	1914	285041
D	404m NE	Refuse Heap	1914	285041
D	406m NE	Refuse Heap	1914	307907
N	406m E	Tramway Sidings	1921	351406
N	406m E	Railway Building	1921	323469
N	408m E	Unspecified Shaft	1914	352636
N	408m E	Unspecified Shaft	1914	352636
N	411m E	Tramway Sidings	1914	353910
D	416m NE	Refuse Heap	1921	278813
N	419m E	Unspecified Shaft	1921	322498
N	419m E	Unspecified Ground Workings	1897	369502
N	422m E	Unspecified Ground Workings	1948	373421
Q	424m NW	Cuttings	1948	275808
Q	432m NW	Cuttings	1938	275808
N	433m E	Unspecified Ground Workings	1921	348418
N	434m E	Unspecified Ground Workings	1914	367522
D	439m N	Unspecified Disused Shaft	1964	269342
N	439m E	Unspecified Ground Workings	1914	366823
N	439m E	Unspecified Ground Workings	1914	366823
D	440m N	Unspecified Old Shaft	1948	273719
D	443m N	Unspecified Old Shaft	1938	295154
D	443m N	Unspecified Old Shaft	1938	295154
D	443m N	Unspecified Ground Workings	1948	310213

ID	Location	Land Use	Date	Group ID
N	446m E	Pumping Pit	1877	326346
N	447m E	Railway Building	1921	323470
R	451m W	Unspecified Works	1980	313450
R	451m W	Unspecified Works	1992	313450
S	451m NW	Old Coal Pit	1921	283827
N	451m E	Unspecified Ground Workings	1948	364162
S	462m NW	Old Coal Pit	1914	283827
D	466m N	Unspecified Ground Workings	1964	310213
U	467m NW	Old Coal Pit	1914	316251
U	467m NW	Old Coal Pit	1914	316251

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**5**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
G	222m SW	Gasometer	1899	40964
G	222m SW	Gasometer	1918	40964
G	222m SW	Unspecified Tank	1936	38283
J	274m NE	Tanks	1918	34909
D	427m N	Unspecified Tank	1877	34410

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	4

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
G	222m SW	Gasometer	1899	23072
G	222m SW	Gasometer	1918	23072
T	461m E	Electricity Substation	1989	18033
T	462m E	Electricity Substation	1972	18033

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

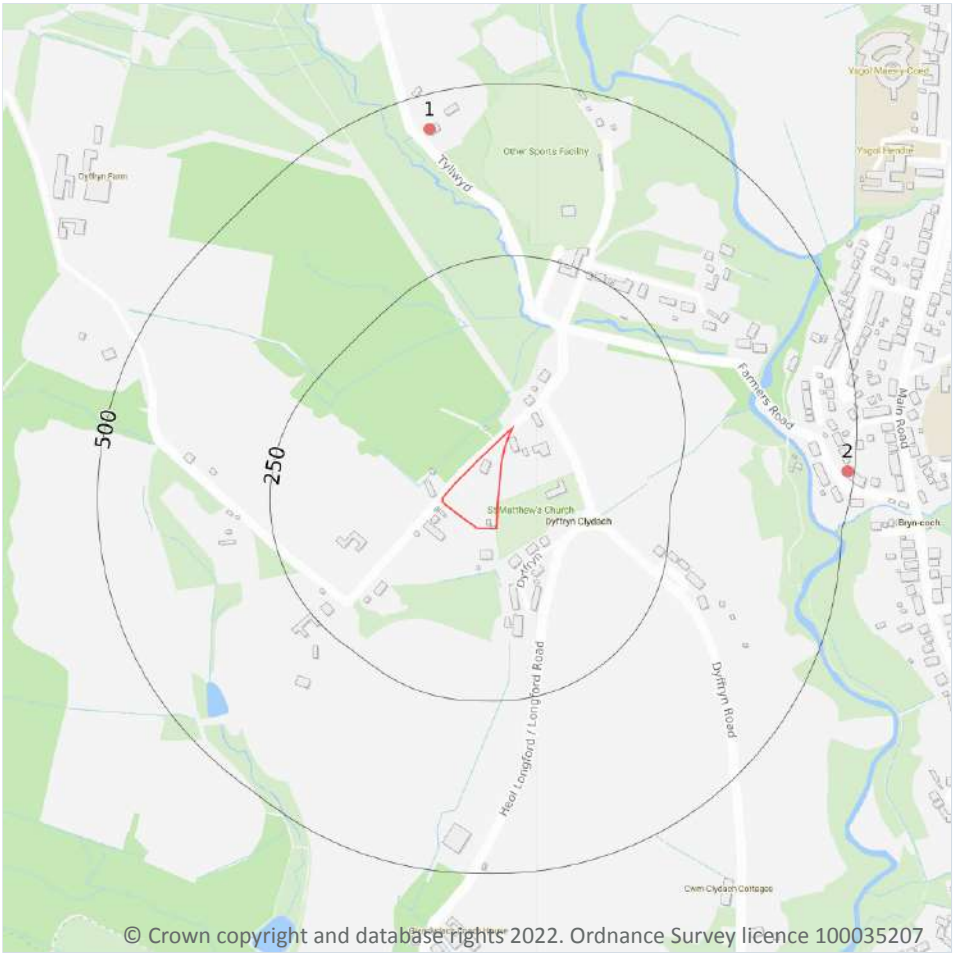
2.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m	0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	2

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

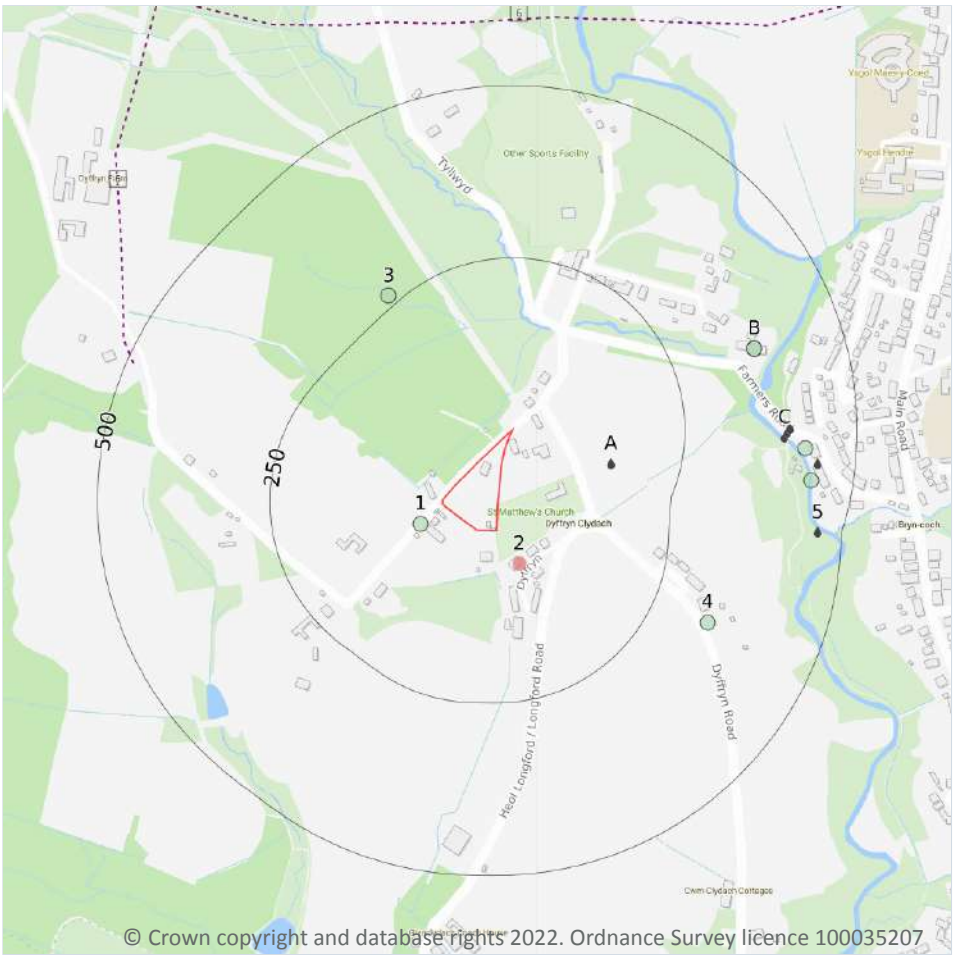
Features are displayed on the Waste and landfill map on **page 31**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	449m N	Bryncoch R F C, Tyllwyd Road, Neath, Castell-nedd Port Talbot, SA10 7DQ	NRW-WME000195	Storing waste exemption	Waste Exemption - Non-Agricultural	Storage of waste in a secure place

ID	Location	Site	Reference	Category	Sub-Category	Description
2	490m E	woodview terrace, Neath, neath port talbot, SA10 7EQ	NRW-WME003740	Disposing of waste exemption	Waste Exemption - Non-Agricultural	Deposit of waste from dredging of inland waters

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Gas pipelines

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	1

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 34**

ID	Location	Company	Address	Activity	Category
2	58m SE	Appliance Repair Sos	Willow Tree Lodge, Dyffryn, Neath, West Glamorgan, SA10 7AZ	Electrical Equipment Repair and Servicing	Repair and Servicing

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	1

High pressure underground gas transmission pipelines.

Features are displayed on the Current industrial land use map on **page 34**

ID	Location	Pipe Name	Details	
6	486m NW	DOWLAIS TO DYFFRYN CLYDACH	Pipe Number: - Pipeline Safety Regulations Number: - Ownership: National Grid Maximum Operating Pressure (Bar): -	Pipeline Diameter (mm): 600 Wall Thickness (mm): - Year of commission: Not specified Abandonment Status: Not abandoned

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m	0

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m	7

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 34**

ID	Location	Address	Details	
A	150m E	2 DARRAN CLOSE, NEATH ABBEY, NEATH, NEATH PORT TALBOT, SA10 6PR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: BP0016701 Permit Version: 2 Receiving Water: TO LAND	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 28/04/1986 Effective Date: 06/07/2004 Revocation Date: -
A	150m E	2 DARRAN CLOSE, NEATH ABBEY, NEATH, NEATH PORT TALBOT, SA10 6PR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: BP0016701 Permit Version: 2 Receiving Water: TO LAND	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 28/04/1986 Effective Date: 06/07/2004 Revocation Date: -
C	394m E	CSO27 FARMERS ROAD PUMPING STATION, CSO 27, FARMERS ROAD PUMPING STATION, BRYNCOCH, NEATH	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: BO5092301 Permit Version: 2 Receiving Water: RIVER CLYDACH	Status: Effective Issue date: 31/03/2004 Effective Date: 01/04/2004 Revocation Date: -
C	397m E	CSO 27 Farmers Road Pumping Station, Woodview Terrace, BRYNCOCH, Neath, SA10 7EQ	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: BO5092301 Permit Version: 3 Receiving Water: RIVER CLYDACH	Status: Effective Issue date: 11/10/2019 Effective Date: 11/10/2019 Revocation Date: -
C	402m E	FARMERS ROAD PS BRYNCOCH, BRYNCOCH	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BP0215401 Permit Version: 1 Receiving Water: RIVER CLYDACH	Status: Effective Issue date: 14/10/1991 Effective Date: 14/10/1991 Revocation Date: -

ID	Location	Address	Details	
C	445m E	NEATH FARMERS ROAD BRYNCOCH, FARMERS ROAD BRYNCOCH, BRYNCOCH	Effluent Type: UNSPECIFIED Permit Number: BP0043201 Permit Version: 1 Receiving Water: TO LAND	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 11/09/1987 Effective Date: 11/09/1987 Revocation Date: 18/11/1992
5	465m E	WOODVIEW HOUSE WOODVIEW TERRACE BRY, WOODVIEW HOUSE WOODVIEW TERRACE, WOODVIEW TERRACE BRYNCOCH NEATH, BRYNCOCH NEATH, NEATH	Effluent Type: UNSPECIFIED Permit Number: BP0079601 Permit Version: 1 Receiving Water: TO LAND	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 17/02/1988 Effective Date: 17/02/1988 Revocation Date: 10/10/1994

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	7

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 34**

ID	Location	Details	
1	42m SW	Incident Date: 25/12/2013 Incident Identification: 1187186 Pollutant: Oils and Fuel Pollutant Description: Insulating and Cable Oils	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
3	264m NW	Incident Date: 23/09/2008 Incident Identification: 623715 Pollutant: Agricultural Materials and Wastes Pollutant Description: Silage Liquors	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4	333m SE	Incident Date: 30/04/2003 Incident Identification: 155137 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
B	370m E	Incident Date: 10/04/2003 Incident Identification: 150088 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	370m E	Incident Date: 29/08/2003 Incident Identification: 186015 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
C	425m E	Incident Date: 07/09/2003 Incident Identification: 188122 Pollutant: Sewage Materials Pollutant Description: Grey Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	438m E	Incident Date: 23/03/2017 Incident Identification: 1701479 Pollutant: - Pollutant Description: -	Water Impact: Other Land Impact: Other Air Impact: Other

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

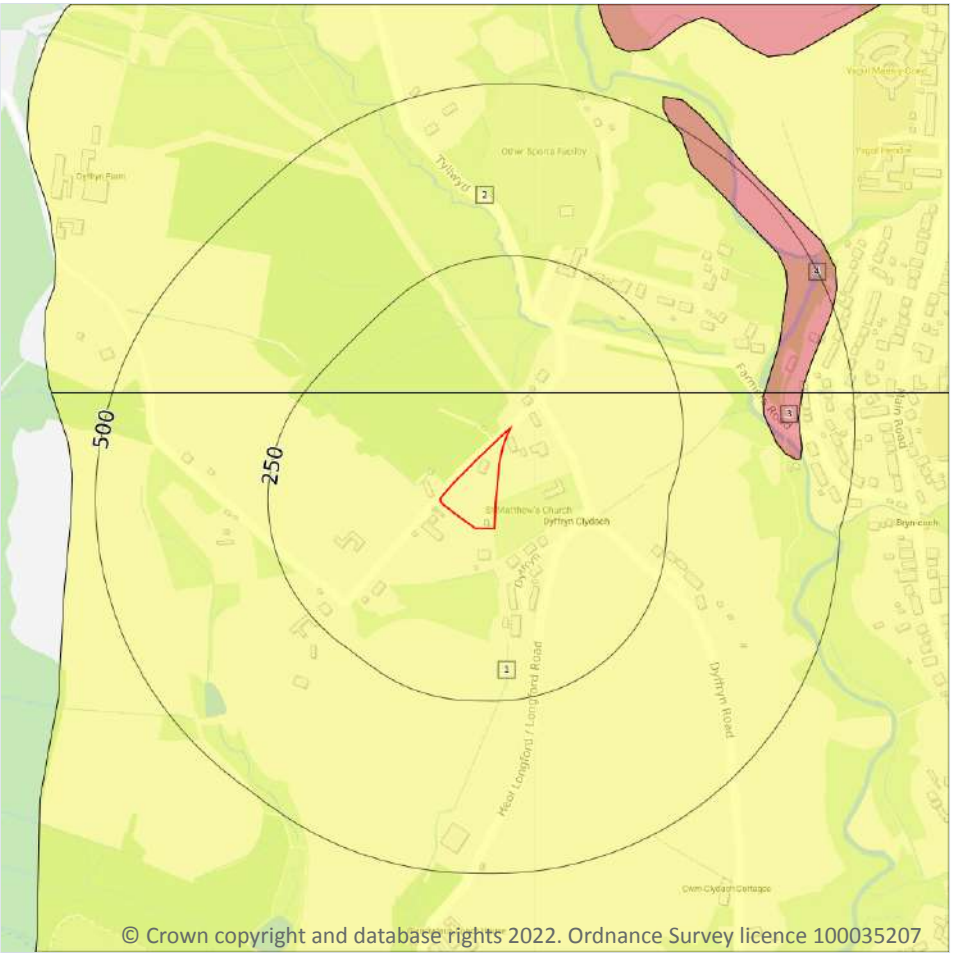
4.21 Pollution inventory radioactive waste

Records within 500m	0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	4

Aquifer status of groundwater held within superficial geology.

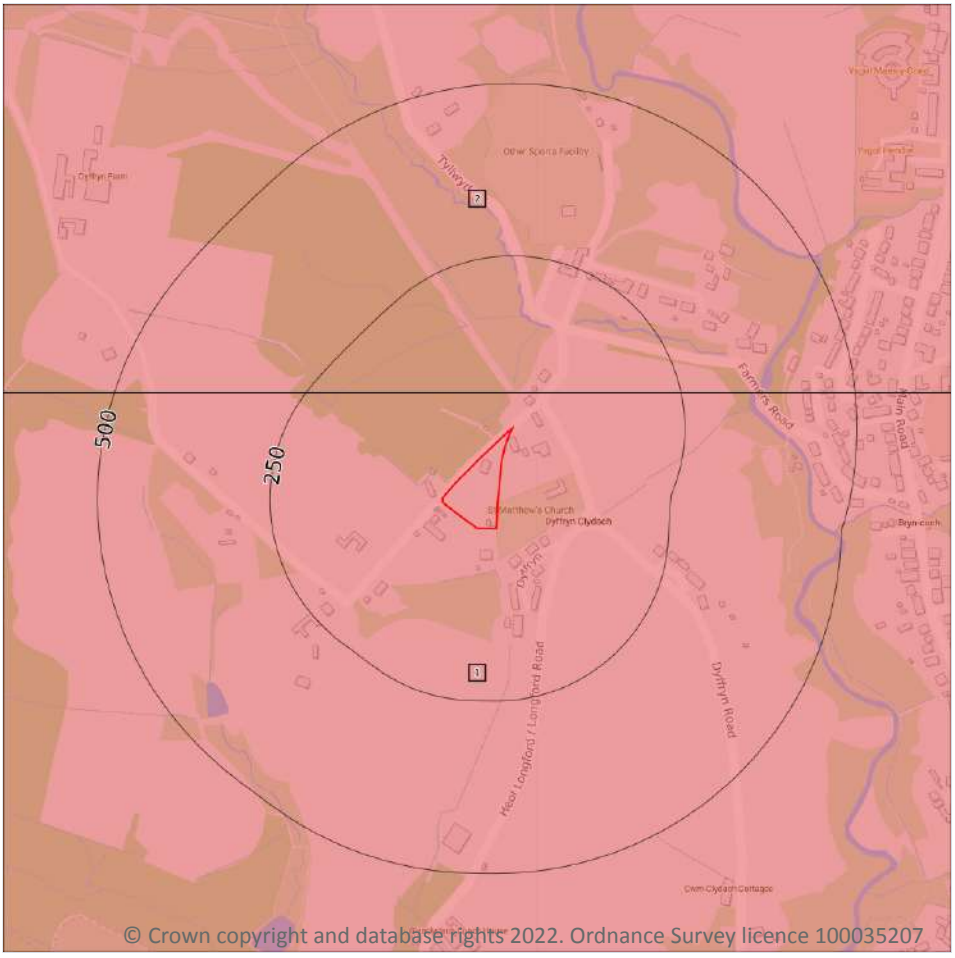
Features are displayed on the Hydrogeology map on **page 41**

ID	Location	Designation	Description
1	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
2	52m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Location	Designation	Description
3	368m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	372m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	2

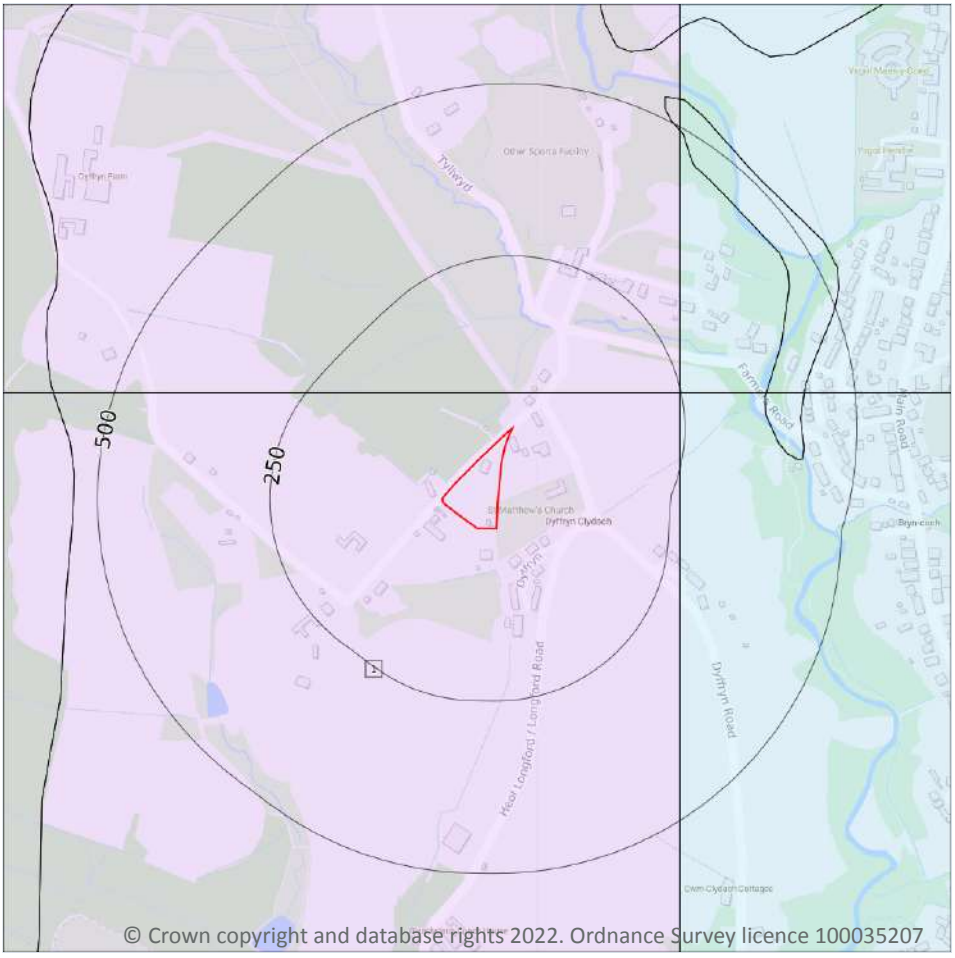
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 43**

ID	Location	Designation	Description
1	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
2	52m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability
- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability
- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 45**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year**	**Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium**	**Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures**

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

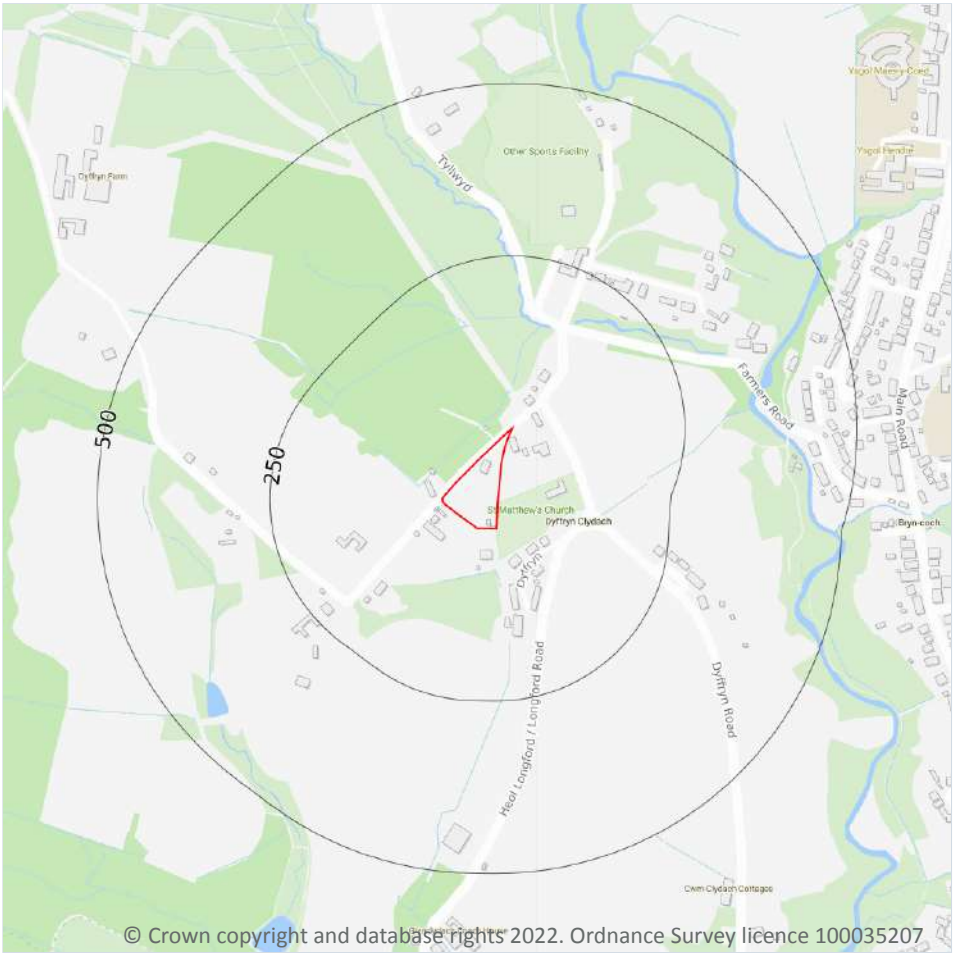
5.5 Groundwater vulnerability- local information

Records on site	0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	0

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	2

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 47**

ID	Location	Details	
-	1229m E	Status: Historical Licence No: 21/58/74/0017 Details: Mineral Washing Direct Source: EAW Surface Water Point: STREAM WEST OF GILFACH QUARRY, NEATH Data Type: Point Name: CEMEX UK Materials Ltd Easting: 274950 Northing: 199620	Annual Volume (m^3): 36368 Max Daily Volume (m^3): 204.6 Original Application No: - Original Start Date: 01/02/1975 Expiry Date: - Issue No: 101 Version Start Date: 13/06/2008 Version End Date: -
-	1229m E	Status: Active Licence No: 21/58/74/0017 Details: Mineral Washing - Low Direct Source: - Point: - Data Type: Point Name: - Easting: 274950 Northing: 199620	Annual Volume (m^3): 36,368 Max Daily Volume (m^3): - Original Application No: - Original Start Date: Jun 13 2008 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

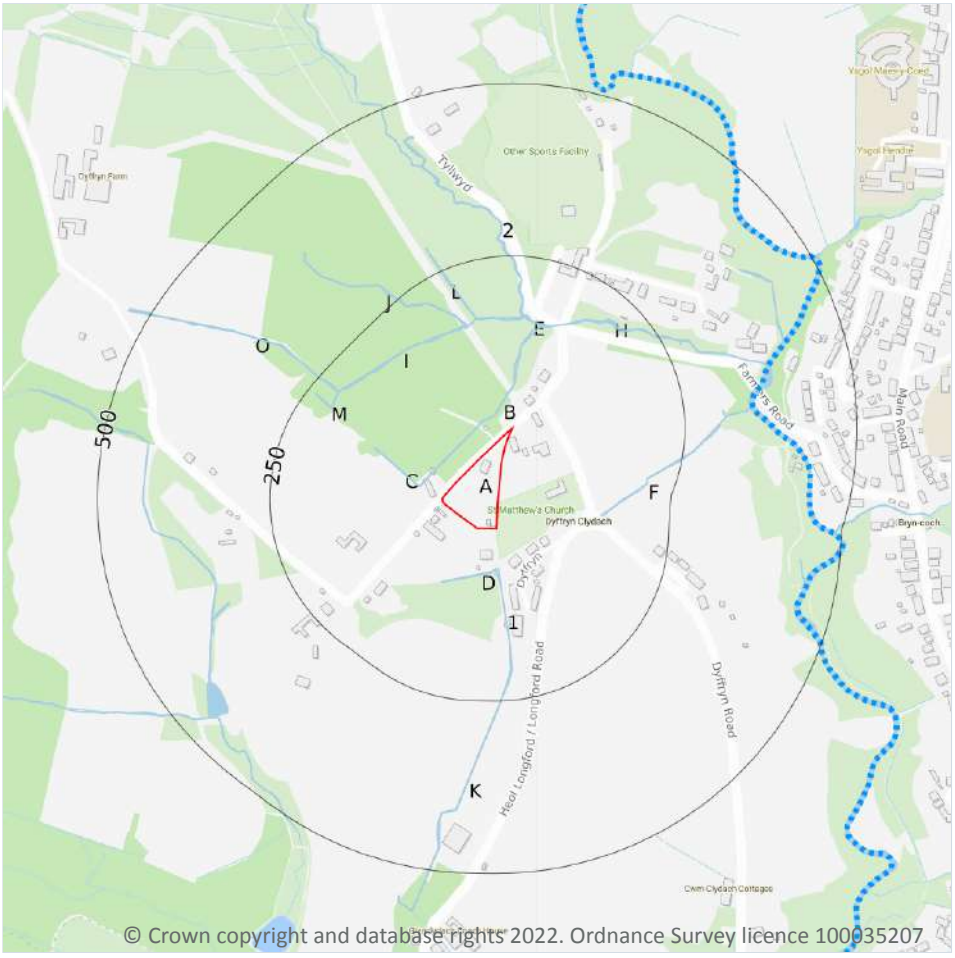
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



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Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	17

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 50**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	31m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
C	34m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	35m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	58m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
1	84m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	150m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	154m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	154m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	156m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	160m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	162m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	162m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
2	163m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	166m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
L	167m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	206m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	214m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	16

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 50**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 50**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River WB catchment**	**Clydach - headwaters to conf with River Neath**	**GB110058026390**	**Neath**	**Tawe to Cadoxton**

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site.

Features are displayed on the Hydrology map on **page 50**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
6	350m E	River	Clydach - headwaters to conf with River Neath	GB110058026390	Moderate	Good	Moderate	2016

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on **page 50**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**On site**	**Swansea Carboniferous Coal Measures**	**GB41002G201000**	**Poor**	**Poor**	**Good**	**2017**

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m	0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

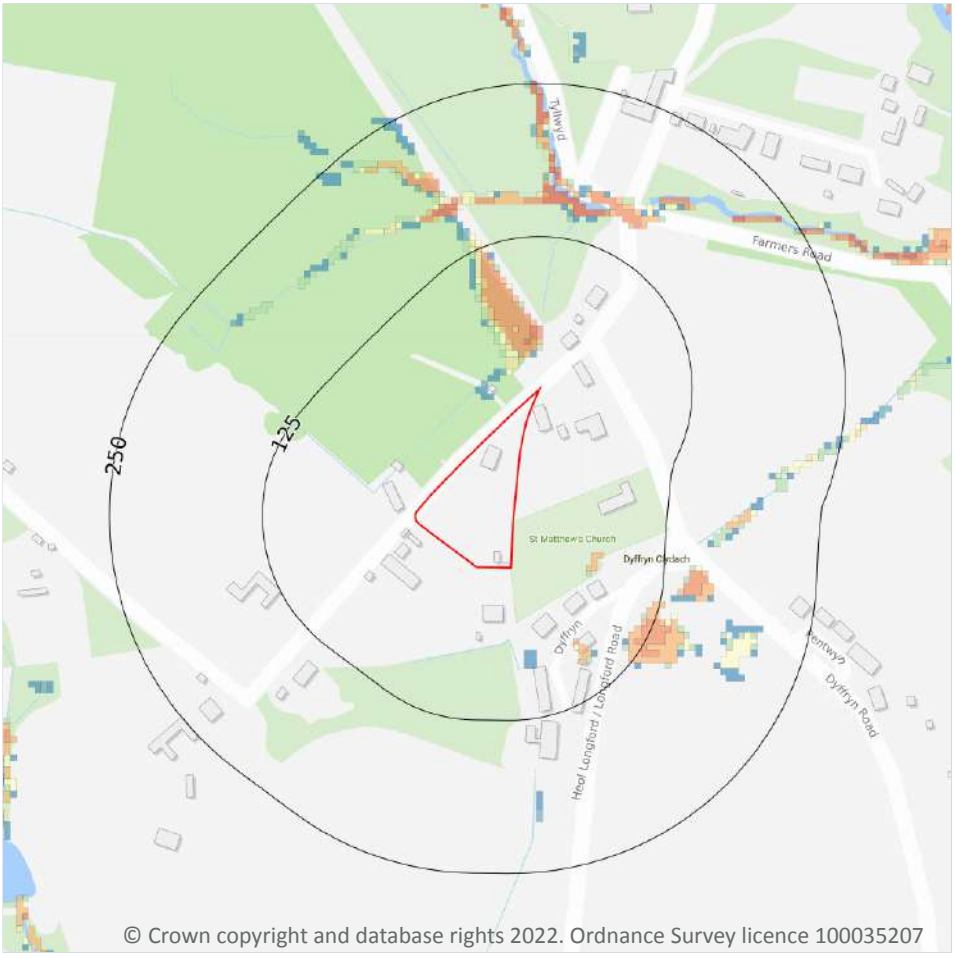
7.7 Flood Zone 3

Records within 50m	0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

8 Surface water flooding



Site Outline

Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**Negligible**
Highest risk within 50m	**1 in 30 year, Greater than 1.0m**

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 57**

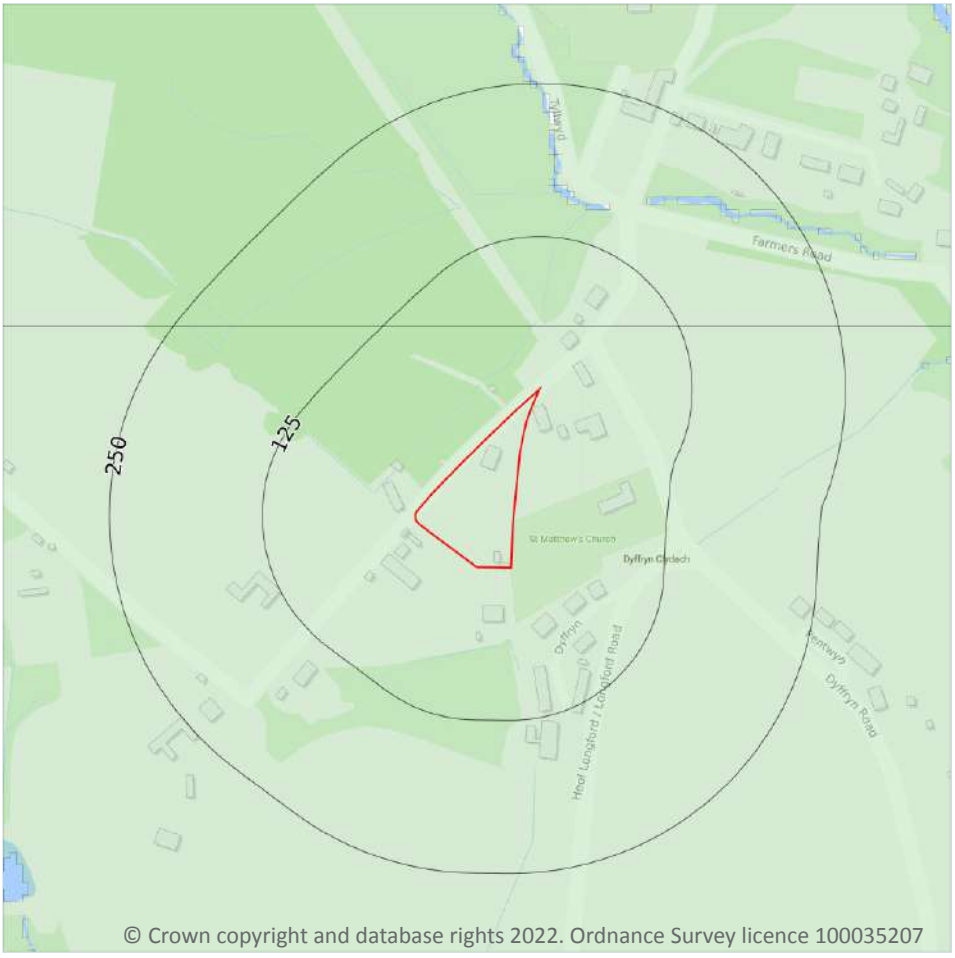
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site	**Low**
Highest risk within 50m	**Low**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 59**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 60**

ID	Location	Name	Data source
-	1934m N	FFOREST GOCH BOG	Natural Resources Wales

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m	96

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 60**

ID	Location	Name	Woodland Type
1	6m NW	Unknown	Restored Ancient Woodland Site
2	14m N	Unknown	Restored Ancient Woodland Site
A	24m NW	Unknown	Plantation on Ancient Woodland Site
3	58m S	Unknown	Restored Ancient Woodland Site
4	161m NW	Unknown	Plantation on Ancient Woodland Site
5	168m NE	Unknown	Ancient Semi Natural Woodland
A	278m NW	Unknown	Restored Ancient Woodland Site
6	302m E	Unknown	Restored Ancient Woodland Site
7	304m W	Unknown	Restored Ancient Woodland Site
8	315m W	Unknown	Plantation on Ancient Woodland Site
A	322m NW	Unknown	Restored Ancient Woodland Site
9	346m N	Unknown	Ancient Semi Natural Woodland
A	360m NW	Unknown	Restored Ancient Woodland Site
10	361m E	Unknown	Ancient Semi Natural Woodland
A	399m NW	Unknown	Restored Ancient Woodland Site
A	411m NW	Unknown	Restored Ancient Woodland Site

ID	Location	Name	Woodland Type
11	414m E	Unknown	Restored Ancient Woodland Site
B	416m E	Unknown	Restored Ancient Woodland Site
12	420m W	Unknown	Plantation on Ancient Woodland Site
C	427m SW	Unknown	Restored Ancient Woodland Site
A	430m NW	Unknown	Plantation on Ancient Woodland Site
C	452m SW	Unknown	Restored Ancient Woodland Site
B	454m E	Unknown	Restored Ancient Woodland Site
B	458m E	Unknown	Restored Ancient Woodland Site
13	484m S	Unknown	Restored Ancient Woodland Site
14	485m SW	Unknown	Plantation on Ancient Woodland Site
15	501m SW	Unknown	Plantation on Ancient Woodland Site
D	521m SW	Unknown	Restored Ancient Woodland Site
16	521m W	Unknown	Plantation on Ancient Woodland Site
D	526m SW	Unknown	Restored Ancient Woodland Site
17	554m NE	Unknown	Ancient Semi Natural Woodland
E	611m S	Unknown	Restored Ancient Woodland Site
18	632m W	Unknown	Plantation on Ancient Woodland Site
F	654m SE	Unknown	Restored Ancient Woodland Site
E	678m S	Unknown	Restored Ancient Woodland Site
E	682m S	Unknown	Ancient Semi Natural Woodland
D	683m SW	Unknown	Restored Ancient Woodland Site
D	692m SW	Unknown	Restored Ancient Woodland Site
D	693m SW	Unknown	Plantation on Ancient Woodland Site
19	716m W	Unknown	Restored Ancient Woodland Site
20	730m NW	Unknown	Restored Ancient Woodland Site
E	737m S	Unknown	Restored Ancient Woodland Site
G	743m S	Unknown	Ancient Semi Natural Woodland
F	755m SE	Unknown	Restored Ancient Woodland Site

ID	Location	Name	Woodland Type
G	758m SE	Unknown	Ancient Semi Natural Woodland
21	758m NW	Unknown	Plantation on Ancient Woodland Site
22	760m W	Unknown	Plantation on Ancient Woodland Site
23	776m N	Unknown	Ancient Semi Natural Woodland
G	778m S	Unknown	Restored Ancient Woodland Site
H	779m SW	Unknown	Restored Ancient Woodland Site
H	783m SW	Unknown	Restored Ancient Woodland Site
24	804m SW	Unknown	Plantation on Ancient Woodland Site
25	808m NW	Unknown	Ancient Woodland Site of Unknown Category
26	815m NW	Unknown	Ancient Woodland Site of Unknown Category
27	817m NW	Unknown	Restored Ancient Woodland Site
28	818m S	Unknown	Ancient Semi Natural Woodland
29	833m NW	Unknown	Plantation on Ancient Woodland Site
30	848m NE	Unknown	Ancient Semi Natural Woodland
31	870m NE	Unknown	Ancient Semi Natural Woodland
I	880m NW	Unknown	Ancient Semi Natural Woodland
J	903m S	Unknown	Plantation on Ancient Woodland Site
I	936m NW	Unknown	Plantation on Ancient Woodland Site
32	939m W	Unknown	Plantation on Ancient Woodland Site
33	956m NE	Unknown	Ancient Semi Natural Woodland
I	959m NW	Unknown	Plantation on Ancient Woodland Site
J	979m SW	Unknown	Plantation on Ancient Woodland Site
34	1002m SW	Unknown	Plantation on Ancient Woodland Site
K	1008m NW	Unknown	Restored Ancient Woodland Site
L	1032m SW	Unknown	Ancient Semi Natural Woodland
K	1038m NW	Unknown	Restored Ancient Woodland Site
35	1049m E	Unknown	Restored Ancient Woodland Site
36	1061m N	Unknown	Ancient Semi Natural Woodland

ID	Location	Name	Woodland Type
37	1101m NE	Unknown	Ancient Semi Natural Woodland
38	1115m NE	Unknown	Ancient Semi Natural Woodland
39	1142m S	Unknown	Ancient Semi Natural Woodland
L	1161m SW	Unknown	Plantation on Ancient Woodland Site
40	1170m N	Unknown	Ancient Semi Natural Woodland
41	1218m NE	Unknown	Ancient Semi Natural Woodland
42	1220m SW	Unknown	Ancient Semi Natural Woodland
43	1221m NW	Unknown	Ancient Woodland Site of Unknown Category
-	1309m N	Unknown	Ancient Semi Natural Woodland
-	1356m E	Unknown	Plantation on Ancient Woodland Site
46	1390m SW	Unknown	Ancient Woodland Site of Unknown Category
47	1396m NW	Unknown	Plantation on Ancient Woodland Site
48	1397m NW	Unknown	Plantation on Ancient Woodland Site
-	1417m E	Unknown	Plantation on Ancient Woodland Site
50	1432m SW	Unknown	Restored Ancient Woodland Site
51	1491m SW	Unknown	Restored Ancient Woodland Site
-	1502m N	Unknown	Ancient Semi Natural Woodland
-	1504m N	Unknown	Ancient Semi Natural Woodland
-	1526m N	Unknown	Ancient Semi Natural Woodland
-	1635m NE	Unknown	Ancient Semi Natural Woodland
-	1773m SW	Unknown	Restored Ancient Woodland Site
-	1825m SW	Unknown	Restored Ancient Woodland Site
-	1837m SW	Unknown	Ancient Semi Natural Woodland
-	1865m E	Unknown	Ancient Semi Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m	0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m	0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m	0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m	0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m	0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site	0

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

This data is sourced from Natural England.

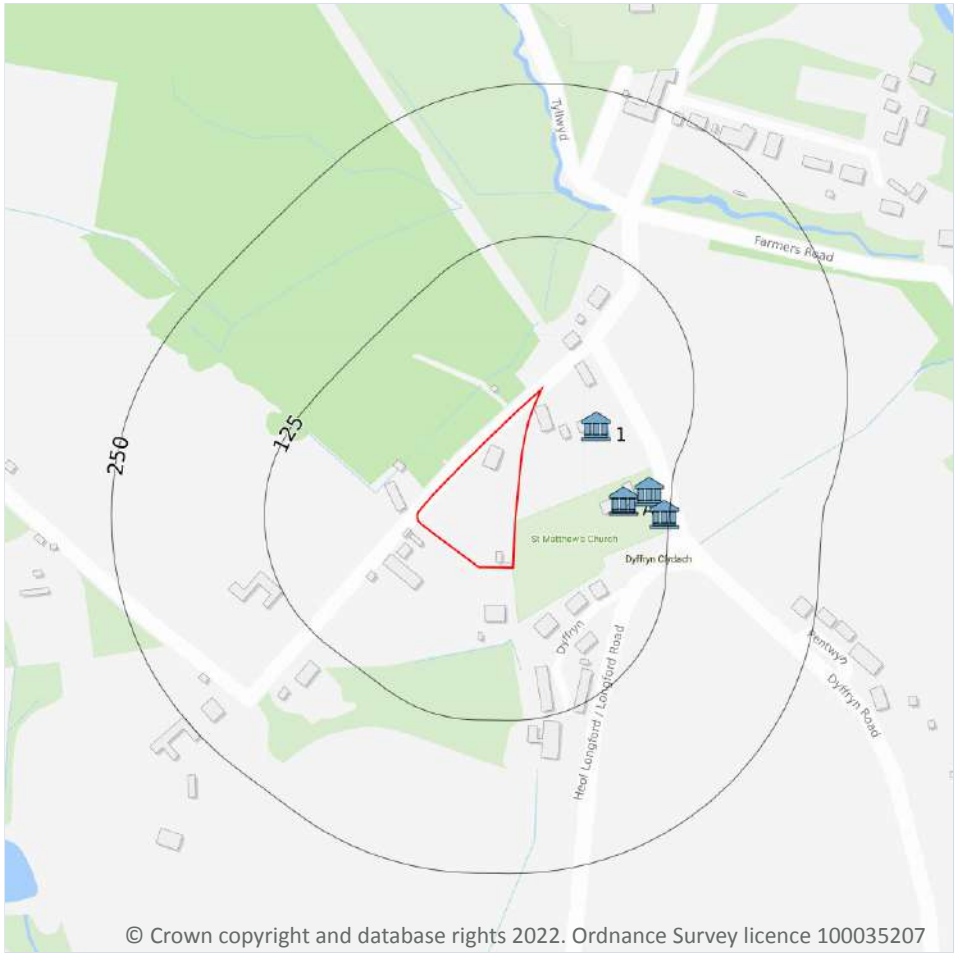
10.18 SSSI Units

Records within 2000m	0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m	0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m	4

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 69**

ID	Location	Name	Grade	Reference Number	Listed date
1	53m SE	Swiss Gables, Just N Of The Church Of St Matthew On The W Side Of The Minor Road Through Dyffryn	II	82324	22/12/2003
A	86m E	Church Of Saint Matthew, In A Prominent Position On The W Side Of The Minor Road Through Dyffryn	II	82319	22/12/2003
A	106m E	Howel Gwyn Memorial In Churchyard Of Church Of St Matthew, In A Prominent Position In The Churchyard Of The Church Of Saint Matthew, Just S Of The Porch And W Of The Lychgate	II	82320	22/12/2003

ID	Location	Name	Grade	Reference Number	Listed date
A	121m E	Lychgate To Churchyard Of Church Of St Matthew, On The E Side Of The Churchyard Of The Church Of St Matthew	II	82321	22/12/2003

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m	0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

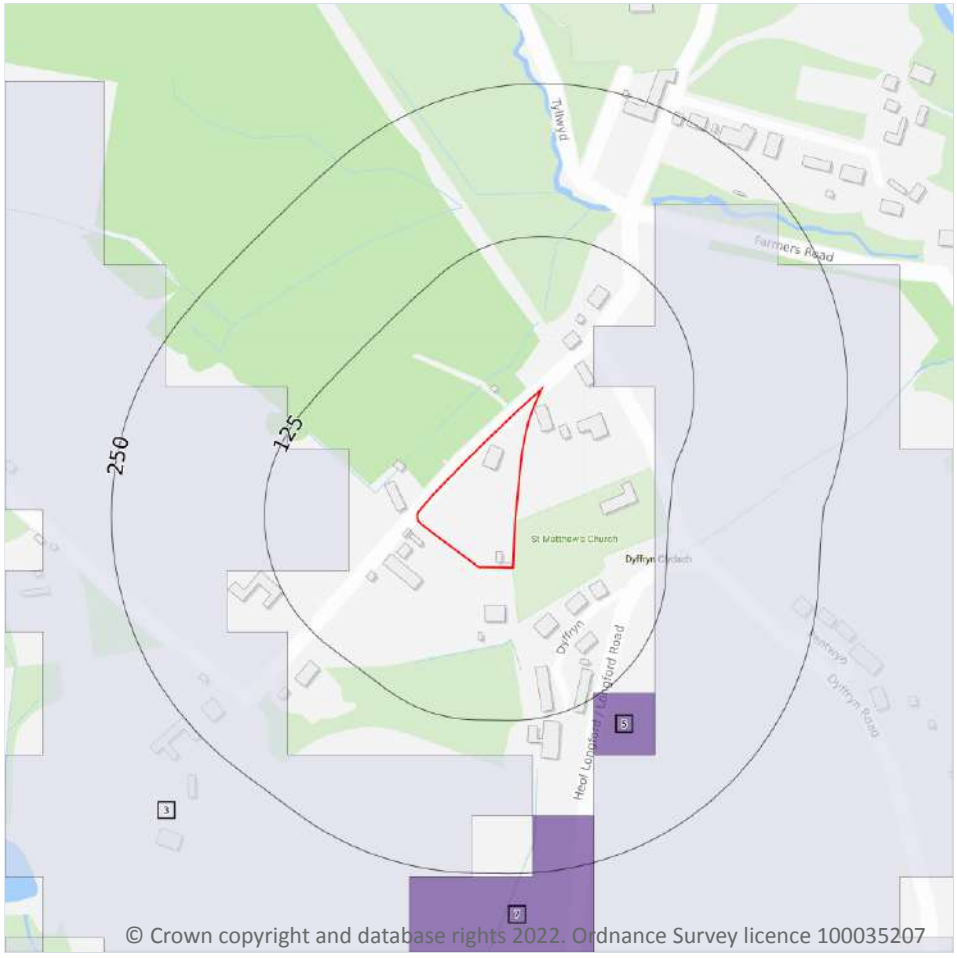
11.7 Registered Parks and Gardens

Records within 250m	0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



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Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Timber felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	3

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 72**

ID	Location	Classification	Description
3	43m E	Grade 3b	Moderate quality agricultural land
5	122m SE	Grade 5	Very poor quality agricultural land
7	203m S	Grade 5	Very poor quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m	0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m	0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m	0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

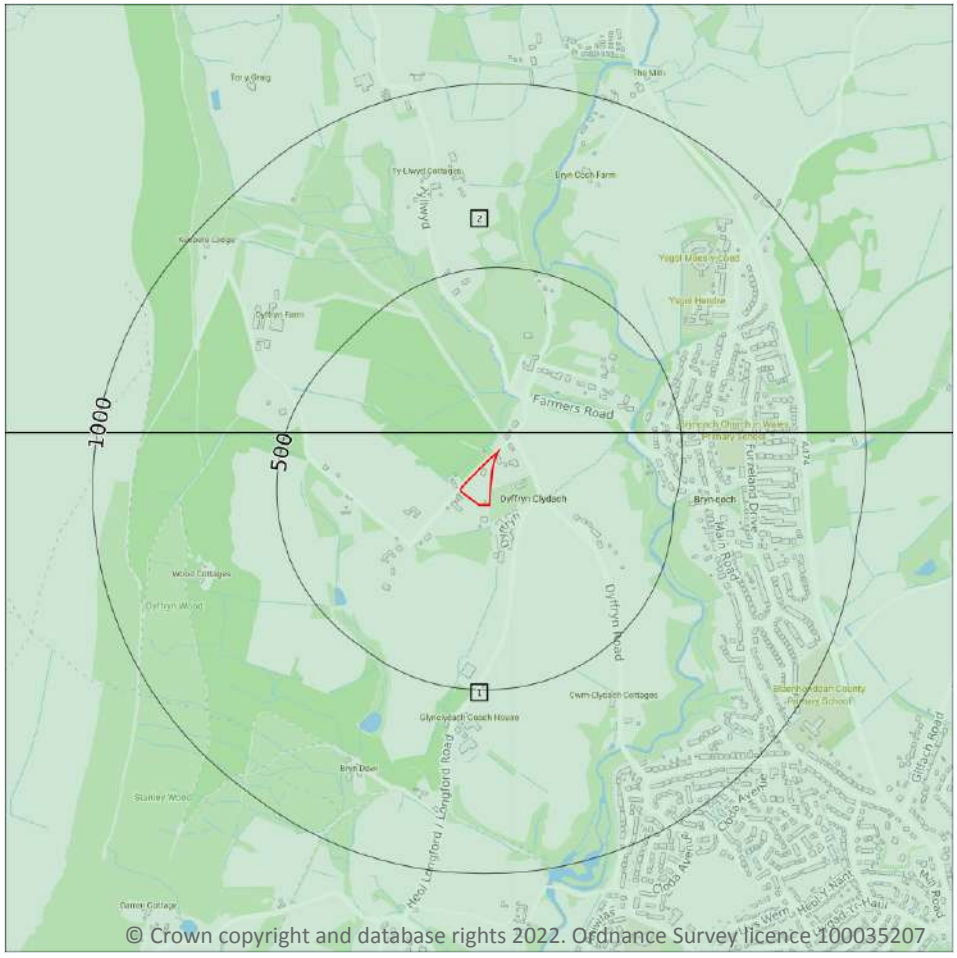
13.4 Limestone Pavement Orders

Records within 250m	0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	2

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 75**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SS79NW**
2	52m N	Full	Full	Full	Full	SN70SW

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground

Site Outline

Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m	12

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

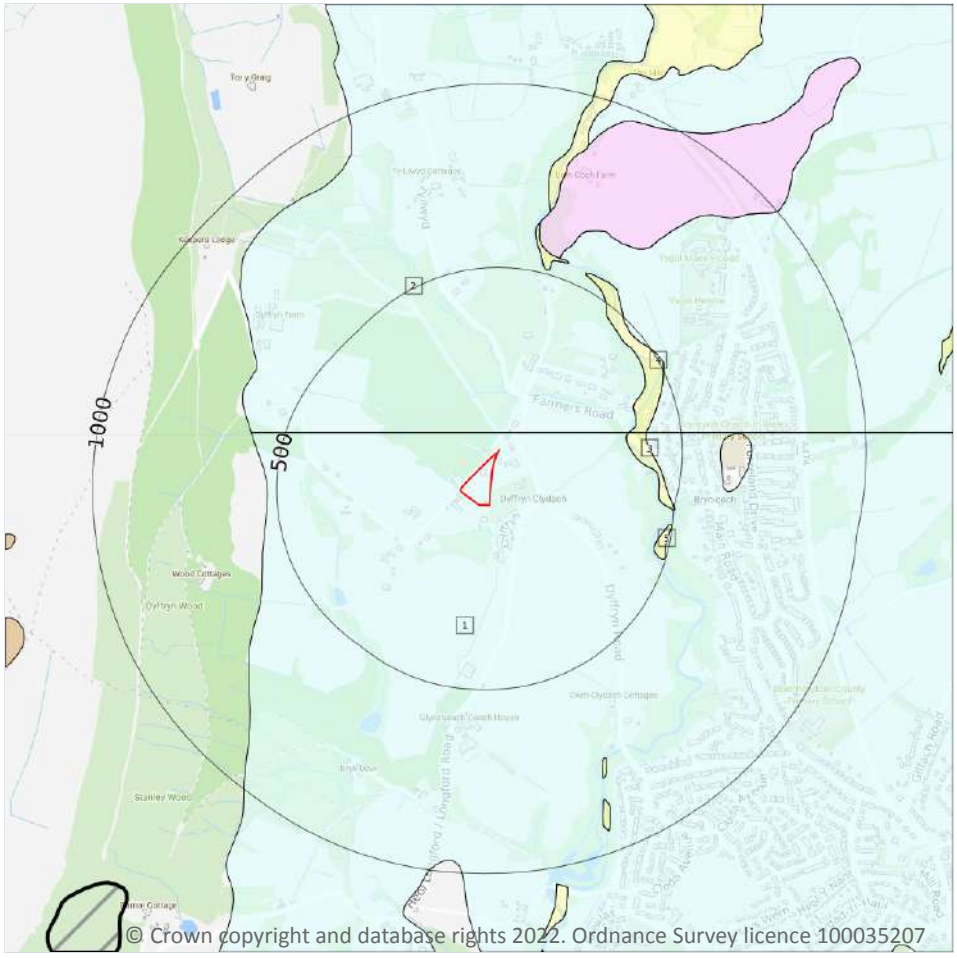
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 76**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
A	53m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	60m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	174m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
3	176m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	352m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	400m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	429m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	445m NW	WGR-VOID	Worked Ground (Undivided)	Void
B	448m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	453m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	476m NW	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m	5

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 78**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TILLD-DMTN**	**Till, Devensian - Diamicton**	**Diamicton**
2	52m N	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
3	350m E	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	360m E	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
5	462m E	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

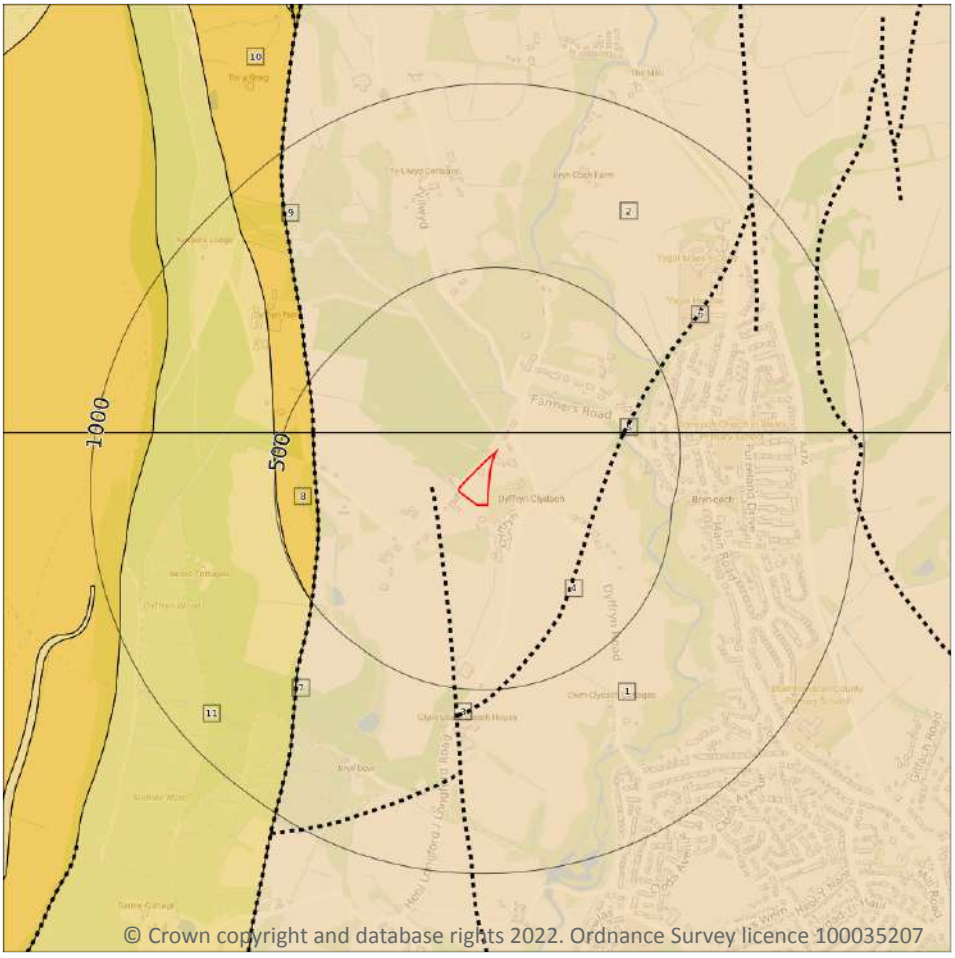
14.4 Landslip (10k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m	5

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 80**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**GDB-MDSS**	**Grovesend Formation - Mudstone, Siltstone And Sandstone**	**Westphalian D Sub-age**
2	52m N	GDB-MDSS	Grovesend Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
8	386m W	SW-SDST	Swansea Member - Sandstone	Westphalian D Sub-age

ID	Location	LEX Code	Description	Rock age
10	424m W	SW-SDST	Swansea Member - Sandstone	Westphalian D Sub-age
11	492m W	SW-MDSS	Swansea Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**6**

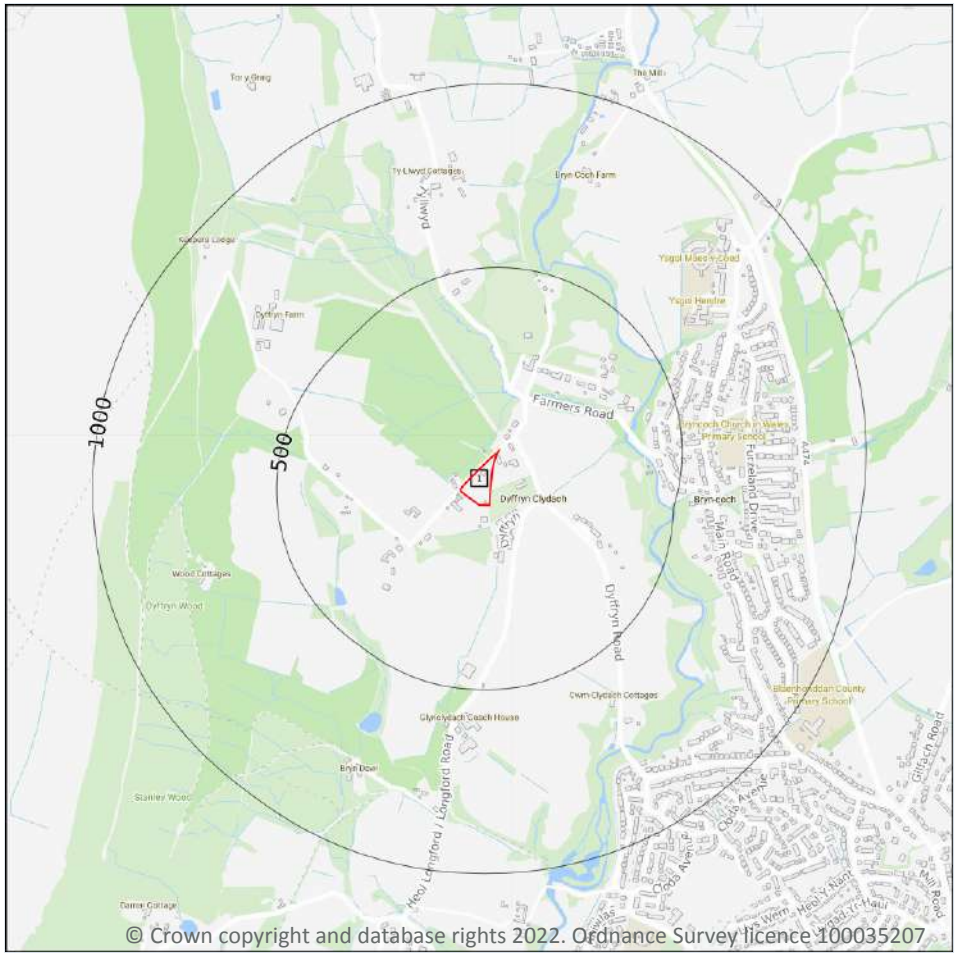
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 80**

ID	Location	Category	Description
3	69m W	FAULT	Normal fault, inferred
4	282m E	ROCK	Coal seam, inferred (LITTLE BRYNCOCH)
5	348m E	ROCK	Coal seam, inferred (LITTLE BRYNCOCH)
6	351m E	ROCK	Coal seam, inferred (LITTLE BRYNCOCH)
7	386m W	FAULT	Normal fault, inferred
9	424m W	FAULT	Normal fault, inferred

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



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Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

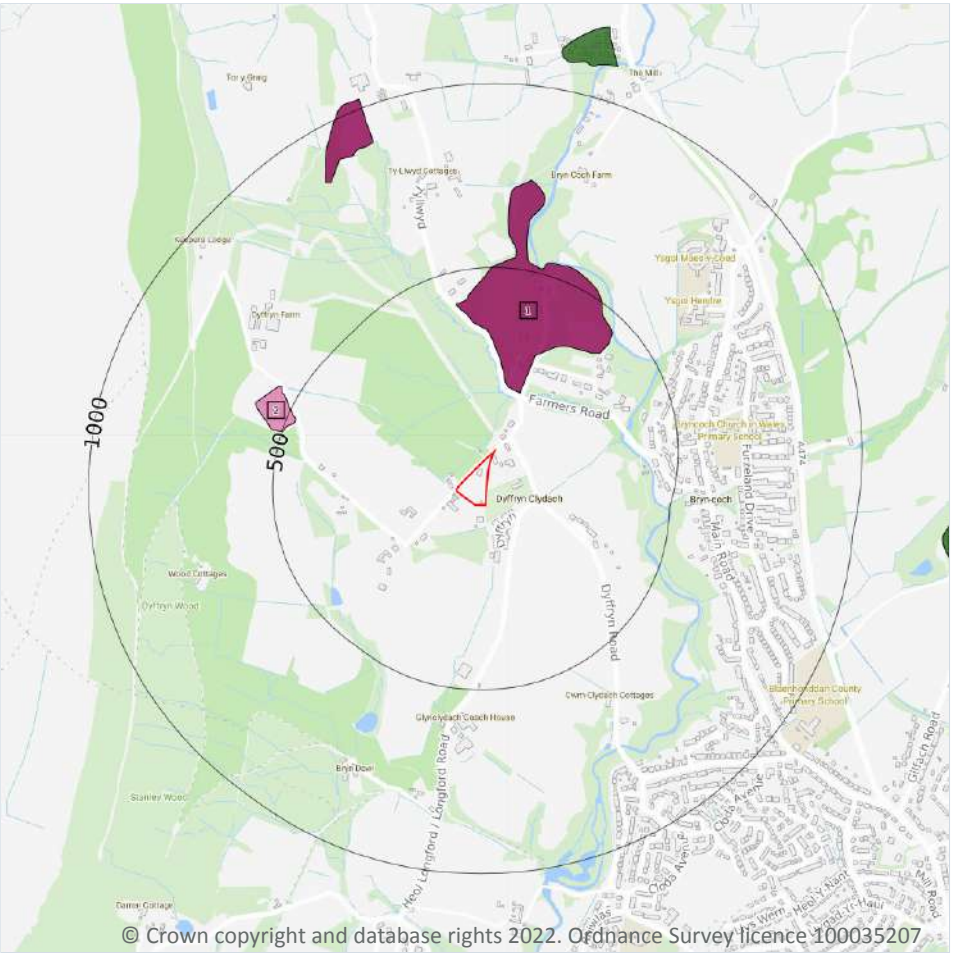
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 82**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW247_swansea_v4**

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground



Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m	2

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 83**

ID	Location	LEX Code	Description	Rock description
1	174m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	476m NW	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

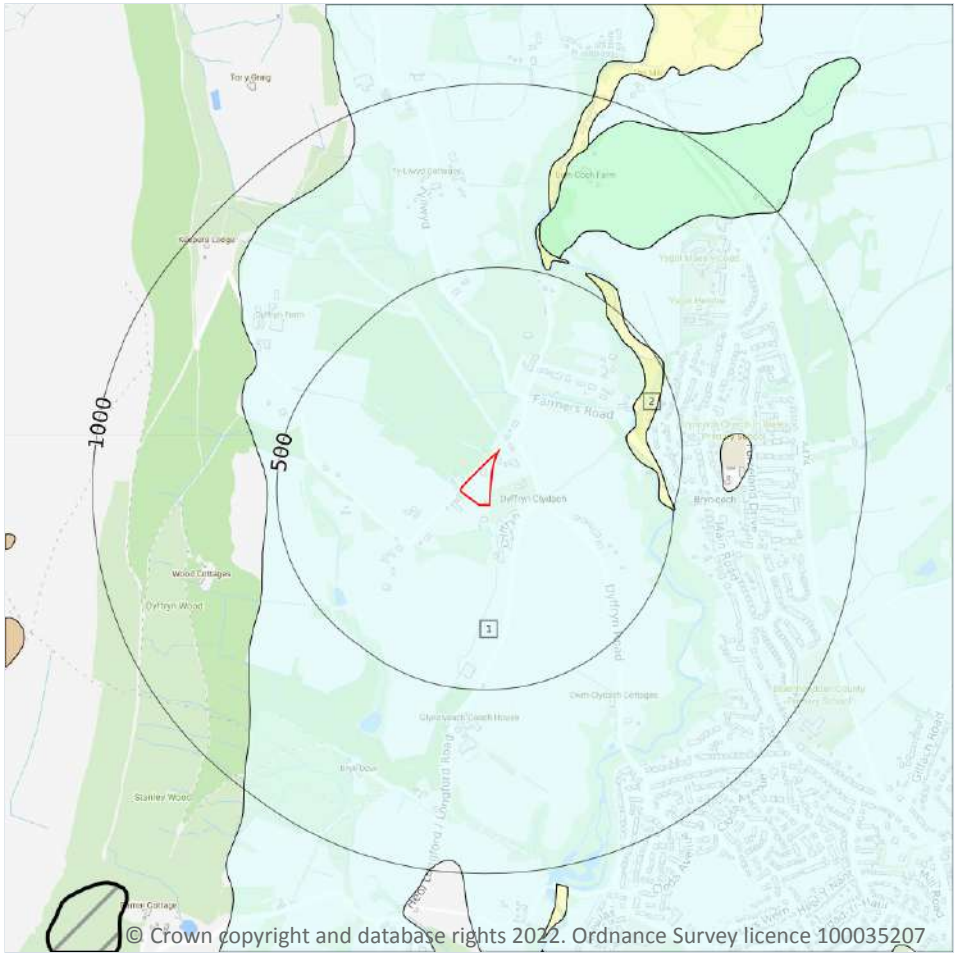
15.3 Artificial ground permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m	2

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 85**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
2	350m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**High**	**Low**

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

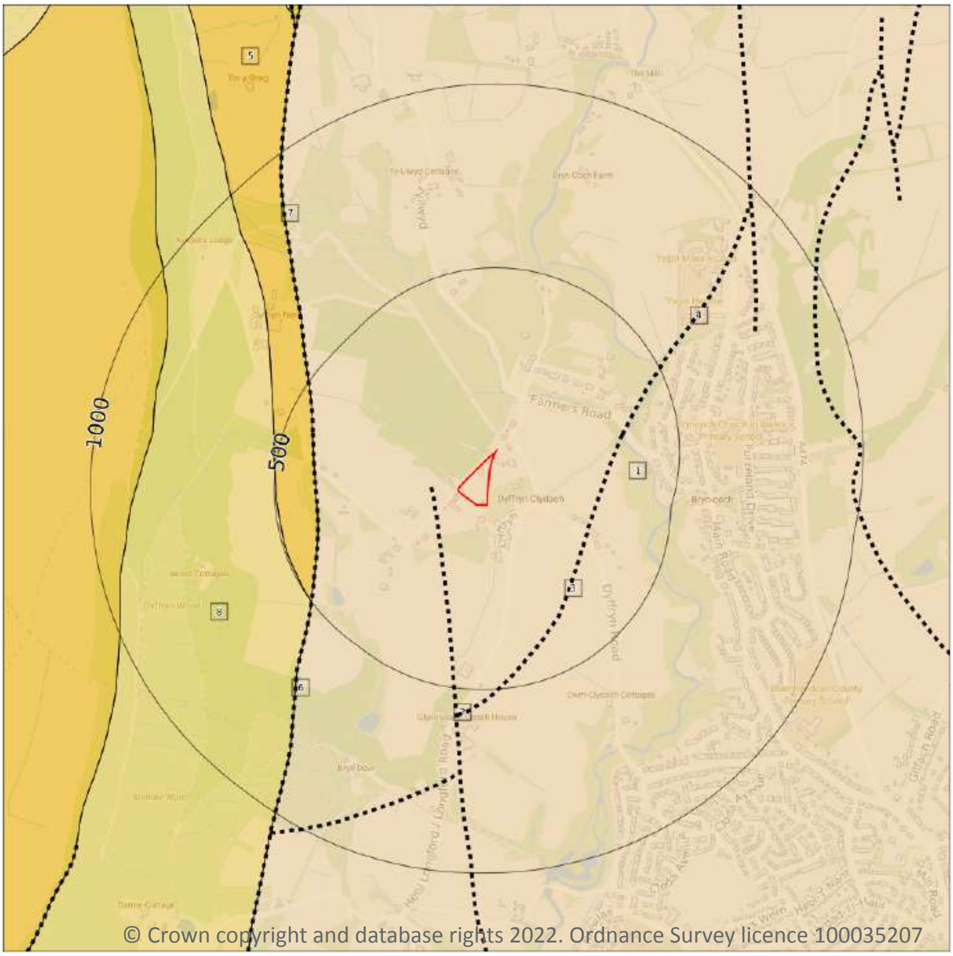
15.7 Landslip permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m 3

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 87**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**GDB-MDSS**	**GROVESEND FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE**	**WESTPHALIAN**
5	386m W	SW-SDST	SWANSEA MEMBER - SANDSTONE	WESTPHALIAN
8	492m W	SW-MDSS	SWANSEA MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Moderate**	**Low**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	5

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 87**

ID	Location	Category	Description
2	69m W	FAULT	Fault, inferred, displacement unknown
3	282m E	ROCK	Coal seam, inferred
4	348m E	ROCK	Coal seam, inferred
6	386m W	FAULT	Fault, inferred, displacement unknown
7	424m W	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.

16 Boreholes

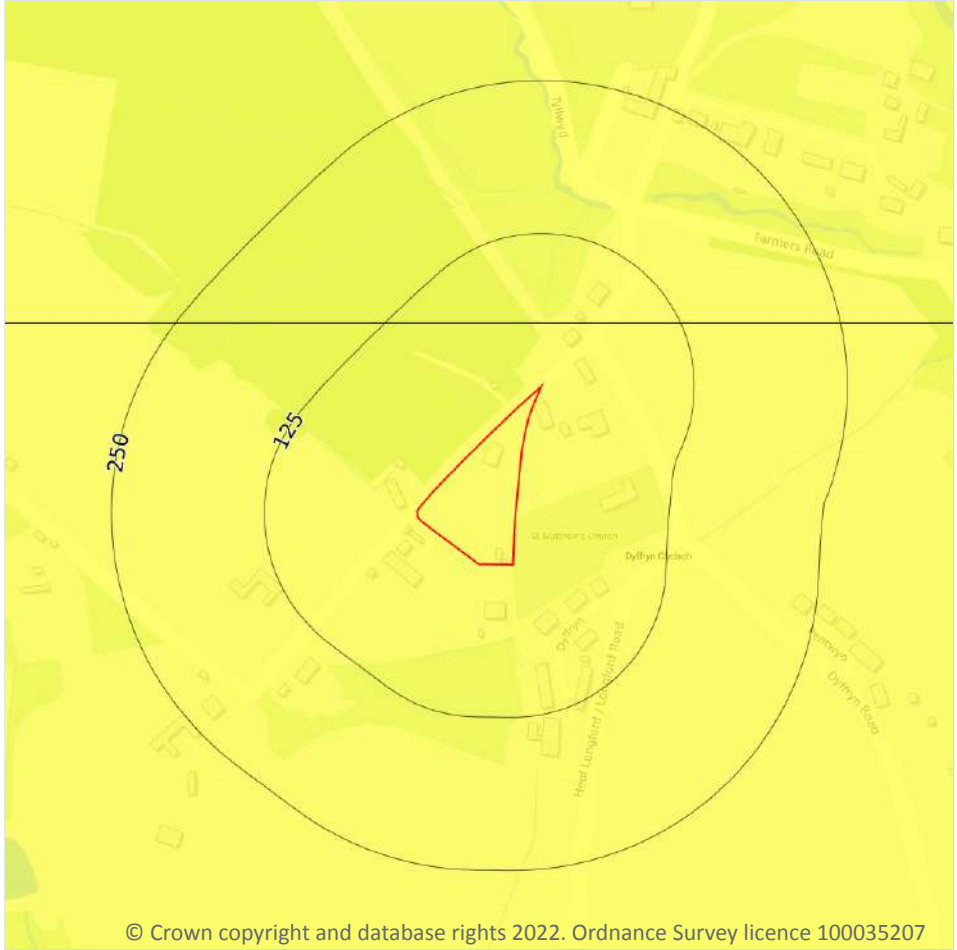
16.1 BGS Boreholes

Records within 250m	0

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	1

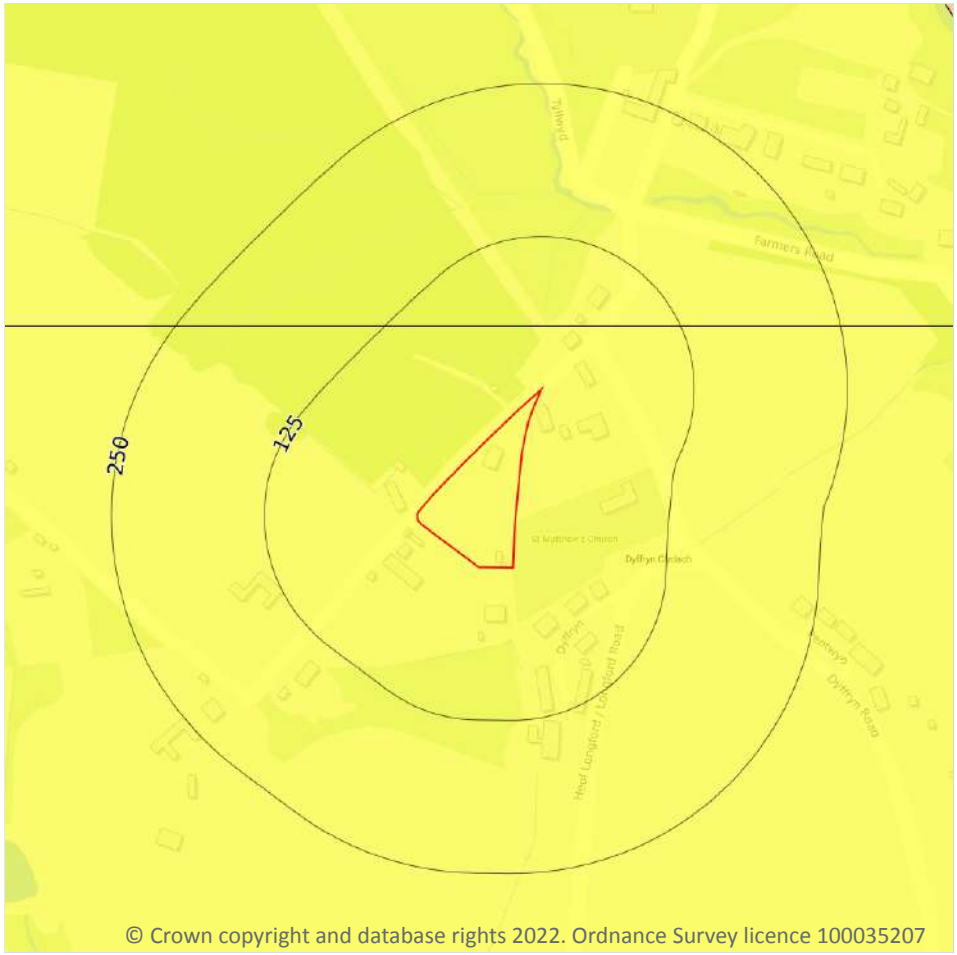
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 90**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	1

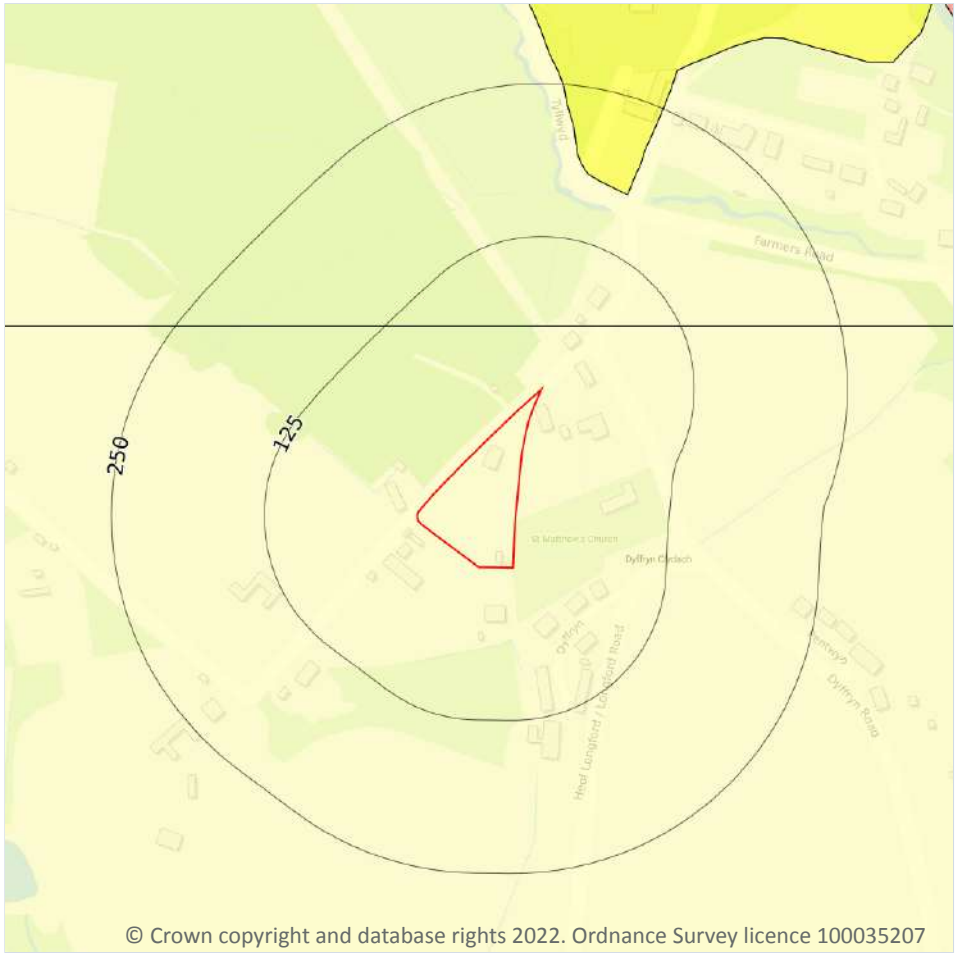
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 91**

Location	Hazard rating	Details
On site	**Very low**	**Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	1

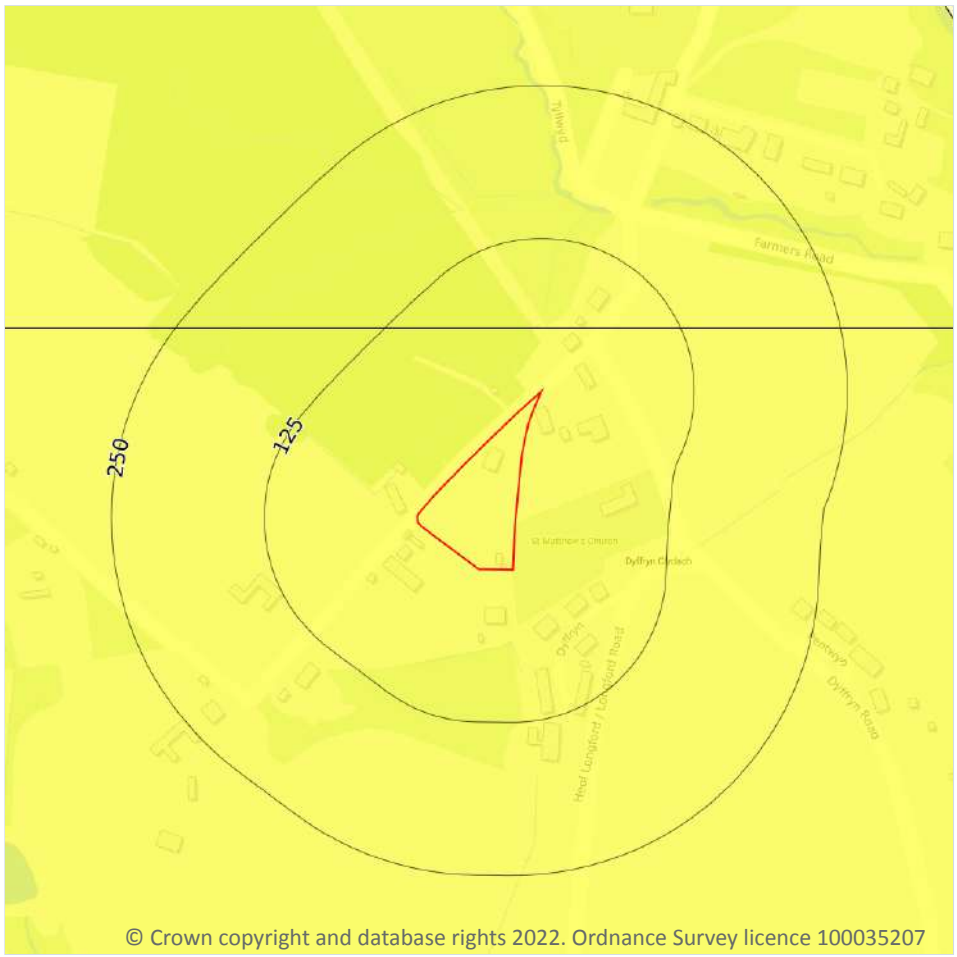
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 92**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	1

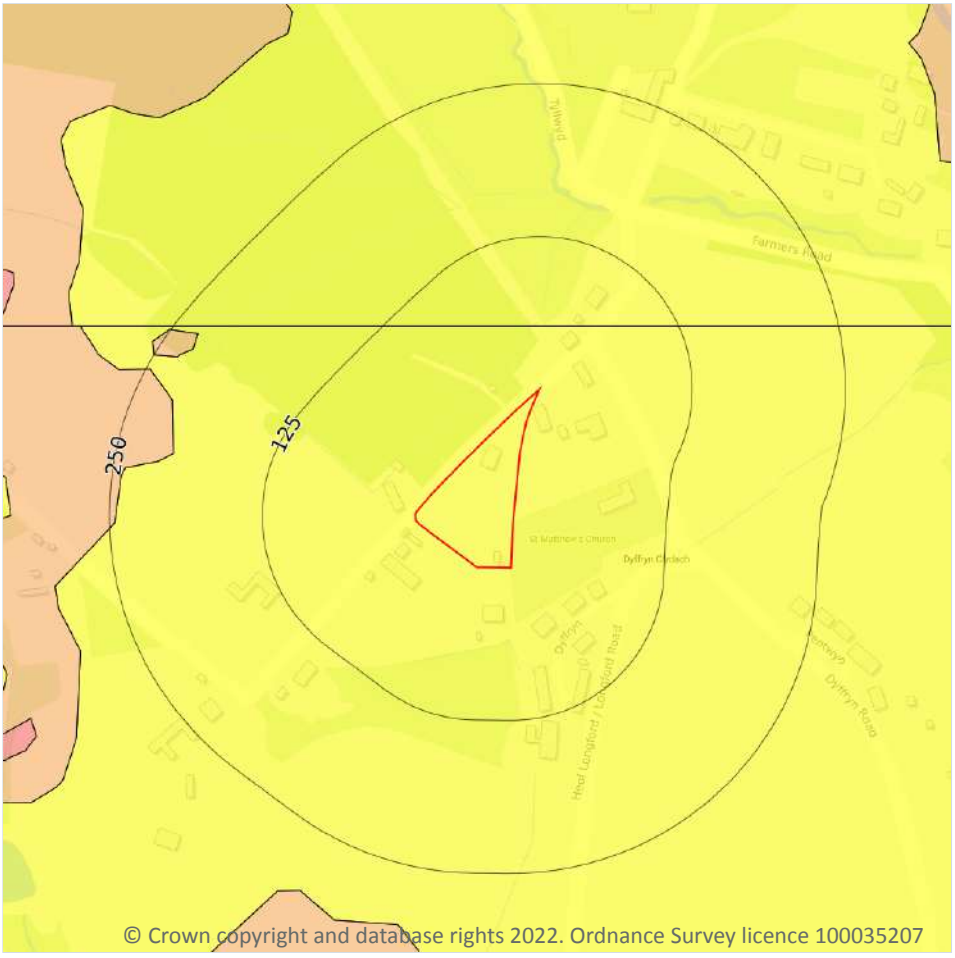
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 93**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	1

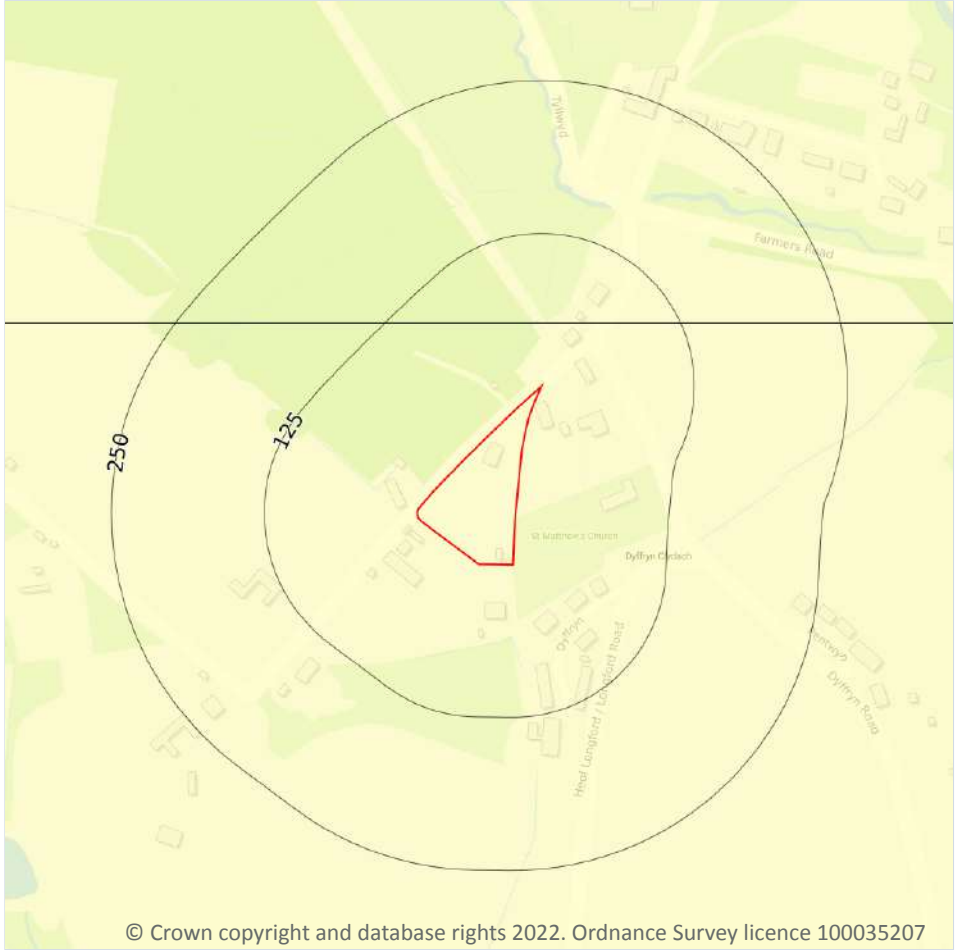
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 94**

Location	Hazard rating	Details
On site	**Very low**	**Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

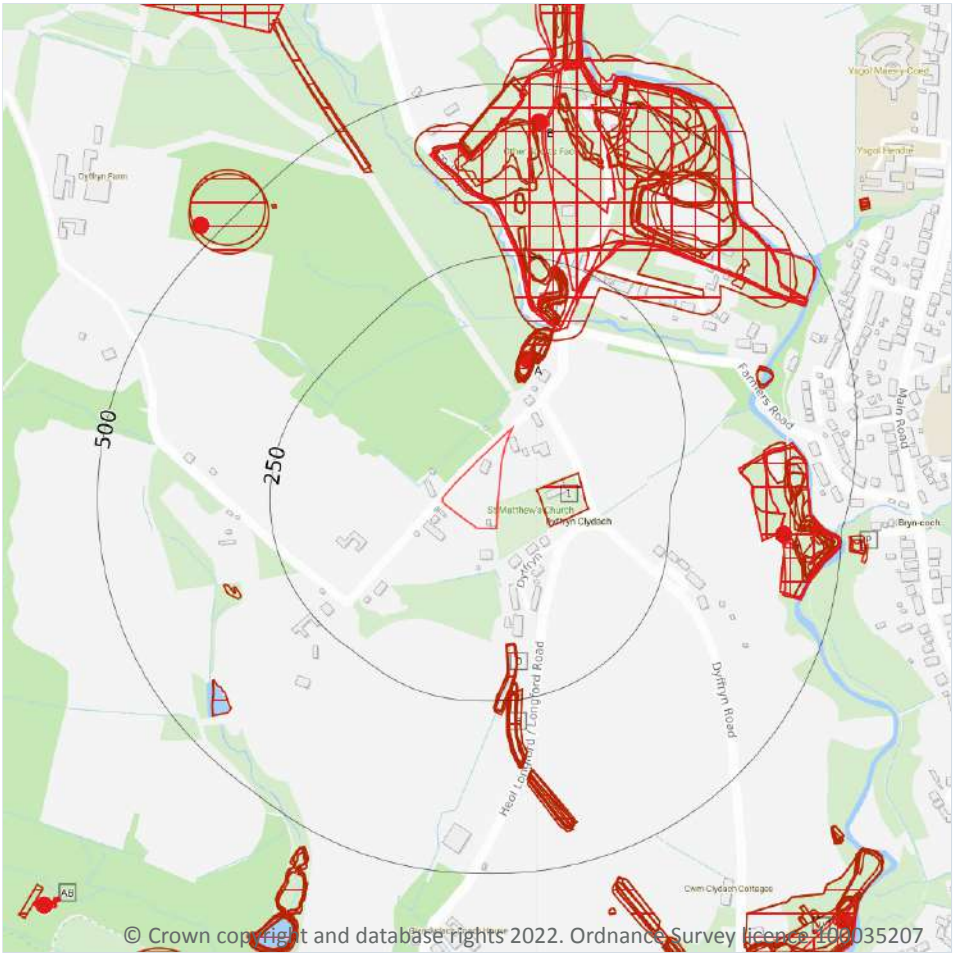
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 95**

Location	Hazard rating	Details
On site	**Negligible**	**Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.**

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m	0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m	3

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 96**

ID	Location	Details	Description
A	102m N	Name: Dyffryn Main Colliery Address: Clydach, NEATH, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
H	416m E	Name: Bryn-coch Upcast Shaft Address: Clydach, NEATH, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	446m N	Name: Dyffryn Main Colliery Address: Clydach, NEATH, West Glamorgan Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	46

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 96**

ID	Location	Land Use	Year of mapping	Mapping scale
1	55m E	Grave Yard	1877	1:10560
A	67m N	Unspecified Heap	1980	1:10000
A	67m N	Unspecified Heap	1992	1:10000
A	67m N	Unspecified Heap	1966	1:10560
A	68m N	Unspecified Heap	1921	1:10560
A	69m N	Unspecified Ground Workings	1964	1:10560
A	73m N	Unspecified Heap	1938	1:10560
A	73m N	Unspecified Heap	1938	1:10560
A	73m N	Unspecified Ground Workings	1948	1:10560
A	75m N	Unspecified Ground Workings	1914	1:10560
A	75m N	Unspecified Ground Workings	1914	1:10560
A	79m N	Unspecified Ground Workings	1914	1:10560
B	140m N	Colliery	1914	1:10560
B	154m NE	Colliery	1921	1:10560
B	158m NE	Disused Colliery	1948	1:10560
C	159m N	Unspecified Ground Workings	1921	1:10560
C	163m N	Unspecified Ground Workings	1938	1:10560
C	163m N	Unspecified Ground Workings	1938	1:10560
C	163m N	Unspecified Ground Workings	1948	1:10560
B	164m NE	Colliery	1914	1:10560
B	164m NE	Colliery	1914	1:10560
C	165m N	Unspecified Ground Workings	1914	1:10560
C	166m N	Unspecified Ground Workings	1914	1:10560
C	166m N	Unspecified Ground Workings	1914	1:10560
D	168m S	Cuttings	1964	1:10560
C	169m N	Unspecified Ground Workings	1980	1:10000
C	169m N	Unspecified Ground Workings	1966	1:10560
D	169m S	Cuttings	1948	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
D	171m S	Cuttings	1938	1:10560
B	176m N	Disused Colliery	1938	1:10560
B	176m N	Disused Colliery	1938	1:10560
C	179m N	Unspecified Ground Workings	1964	1:10560
C	214m N	Unspecified Heap	1948	1:10560
C	216m N	Unspecified Ground Workings	1980	1:10000
C	216m N	Unspecified Ground Workings	1966	1:10560
C	218m N	Unspecified Heap	1938	1:10560
C	218m N	Unspecified Heap	1938	1:10560
B	219m NE	Colliery	1897	1:10560
E	221m S	Unspecified Pit	1938	1:10560
E	221m S	Unspecified Pit	1938	1:10560
E	227m S	Unspecified Pit	1914	1:10560
E	236m S	Unspecified Pit	1992	1:10000
E	236m S	Unspecified Pit	1978	1:10000
E	238m S	Unspecified Pit	1964	1:10560
E	242m S	Unspecified Pit	1921	1:10560
E	242m S	Unspecified Pit	1948	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	**55**

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 96**

ID	Location	Land Use	Year of mapping	Mapping scale
A	96m N	Old Coal Shaft	1921	1:10560
A	105m N	Old Coal Shaft	1914	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
B	154m NE	Colliery	1921	1:10560
B	158m NE	Disused Colliery	1948	1:10560
B	172m N	Unspecified Disused Mine	1964	1:10560
B	219m NE	Colliery	1897	1:10560
H	334m E	Colliery	1964	1:10560
B	342m NE	Colliery	1877	1:10560
H	366m E	Colliery	1948	1:10560
H	419m E	Unspecified Shaft	1921	1:10560
B	439m N	Unspecified Disused Shaft	1964	1:10560
B	440m N	Unspecified Old Shaft	1948	1:10560
P	513m E	Coal Pit	1877	1:10560
N	522m NW	Coal Pit	1877	1:10560
Q	525m N	Old Coal Pit	1921	1:10560
Q	535m N	Coal Pit	1877	1:10560
W	673m NW	Colliery	1921	1:10560
-	692m N	Coal Pit	1897	1:10560
-	693m N	Old Coal Pits	1914	1:10560
V	742m SE	Unspecified Shaft	1877	1:10560
-	748m N	Old Coal Pits	1914	1:10560
V	749m SE	Coal Pit	1877	1:10560
-	749m N	Old Coal Pits	1921	1:10560
-	750m SW	Disused Colliery	1897	1:10560
-	760m NW	Unspecified Mine	1980	1:10000
-	760m NW	Unspecified Disused Mine	1992	1:10000
-	760m NW	Unspecified Mine	1966	1:10560
-	763m N	Air Shaft	1921	1:10560
-	763m NW	Unspecified Disused Mine	1964	1:10560
-	763m S	Colliery	1877	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
-	766m N	Disused Air Shaft	1980	1:10000
-	766m N	Disused Air Shaft	1992	1:10000
-	766m N	Disused Air Shaft	1966	1:10560
-	768m N	Air Shaft	1877	1:10560
-	772m SW	Unspecified Old Level	1914	1:10560
-	772m SW	Unspecified Level	1877	1:10560
-	772m N	Air Shaft	1914	1:10560
-	776m SW	Disused Colliery	1921	1:10560
-	778m SW	Disused Colliery	1948	1:10560
-	781m SW	Unspecified Old Level	1921	1:10560
-	788m SW	Unspecified Old Level	1964	1:10560
-	792m SW	Disused Colliery	1964	1:10560
AB	798m SW	Unspecified Disused Shaft	1992	1:10000
AB	798m SW	Unspecified Disused Shaft	1978	1:10000
AB	801m SW	Unspecified Old Shaft	1914	1:10560
AB	802m SW	Coal Pit	1877	1:10560
-	802m NW	Colliery	1948	1:10560
-	803m S	Unspecified Disused Mine	1978	1:10000
AB	809m SW	Unspecified Old Shaft	1921	1:10560
AB	825m SW	Unspecified Old Shaft	1964	1:10560
AB	826m SW	Unspecified Old Shaft	1948	1:10560
-	834m S	Disused Coal Pit	1877	1:10560
-	846m NW	Old Coal Pit	1914	1:10560
-	851m NW	Old Coal Pit	1897	1:10560
-	935m E	Old Coal Level	1897	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site	0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	1

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

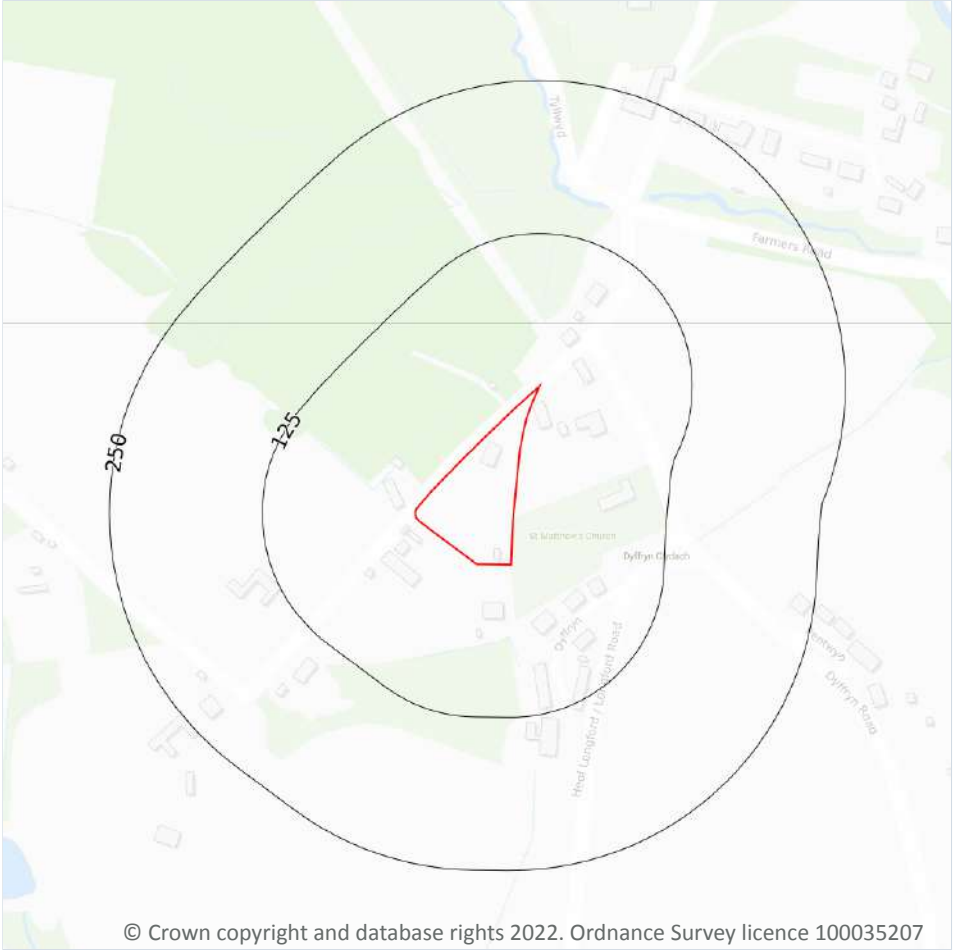
18.13 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site	1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 104**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Less than 1%**	**None****

This data is sourced from the British Geological Survey and Public Health England.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	1

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km^2. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**35 - 45 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**3.0 - 6.0 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

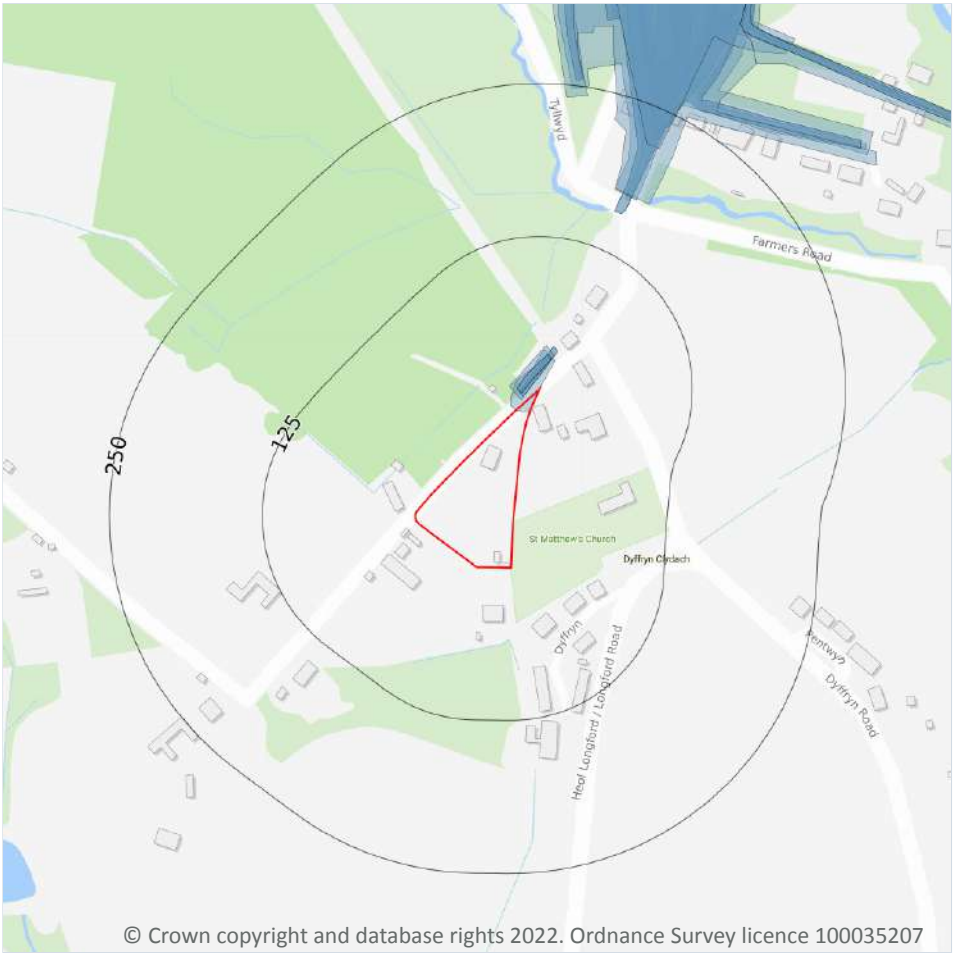
20.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



Site Outline
Search buffers in metres (m)
Crossrail 1 Stations
Crossrail 1 Route
Crossrail 1 Worksites
Crossrail 2 Stations
Crossrail 2 Route
Crossrail 2 Worksites
Crossrail 2 Safeguarding
Crossrail 2 Headhouses
Railway stations
Active railways
Active tunnels
Abandoned railways
Historic railways
Historic tunnels
Underground stations
Underground Lines
Royal Mail tunnels
HS2 optimised route
HS2 Stations
HS2 Depots
HS2 Surface Safeguarding
HS2 Subsurface Safeguarding

21.1 Underground railways (London)

Records within 250m	0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	11

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 106**

Location	Land Use	Year of mapping	Mapping scale
On site	**Mineral Railway Sidings**	**1921**	**10560**
4m NW	Railway Sidings	1914	10560
4m NW	Tramway Sidings	1899	2500
4m NW	Tramway Sidings	1918	2500
7m NW	Mineral Railway Sidings	1914	10560
158m NE	Mineral Railway Sidings	1914	10560
170m NE	Tramway Sidings	1918	2500
174m NE	Railway Sidings	1914	10560
175m NE	Mineral Railway Sidings	1921	10560
219m NE	Railway Sidings	1897	10560
225m NE	Tramway Sidings	1899	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference.

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