Bluefield Land Limited

LAND AT CWMGORS, NEATH PORT TALBOT

Desk Study Report

14301/LP/24/DS

Intégral
Géotechnique

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1.0 INTRODUCTION

1.1 GENERAL

Bluefield Land Limited are proposing to redevelop a site at Cwmgors, Neath Port Talbot, for residential end-use.

Intégral Géotechnique (Wales) Limited have been appointed as the Geotechnical Engineers to undertake a geoenvironmental and geotechnical desk study of the site.

The objectives of the geoenvironmental and geotechnical appraisal are to:

- Assess the degree, nature and extent of possible contamination and its implications for ownership and site development;
- Identify any geotechnical constraints on development; and
- Provide recommendations for physical site investigation works.

This report presents the findings of the desk study, and provides guidance on the scope of the geoenvironmental and geotechnical investigation.

The opinions and preliminary assessments presented are based on desk-based research and should be reviewed after intrusive investigation, if required.

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1.2 PROPOSED DEVELOPMENT

The proposed development will comprise the construction of a number of residential properties and associated infrastructure such as a new access road, areas of car parking and private driveways. Areas of soft landscaping and private gardens will also be provided as part of the development.

1.3 SCOPE OF WORKS

The work instructed included a desk study of available information, together with the development of an initial conceptual site model. The desk study comprised a review of:

- An Envirocheck Report obtained for the site,
- Old Ordnance Survey maps covering the site, included within the Envirocheck Report,
- A Radon GeoReport obtained from the British Geological Survey,
- A Consultants Coal Mining Report from The Coal Authority,
- Geological maps of the area provided by the British Geological Survey
- The Natural Resources Wales groundwater vulnerability map and aquifer database for the area,
- Existing site investigation data.

1.4 LIMITATIONS

This document is intended to be a working document for further development in discussion with all concerned including the Local Planning Authority, Natural Resources Wales, and the building control authority as appropriate.

"Contamination" is taken throughout the report to mean the "presence of one or more potentially harmful substances as a result of human activity." The use of the term in this way does not imply that harm is being or might be caused by the contamination. It should be noted that "contamination" can have different meanings under different regulatory regimes, for example, planning, building control and Part IIA of the Environmental Protection Act 1990. Naturally elevated concentrations of potentially harmful substances may also be of concern and the significance of any that have been found is also evaluated in this report.

2.0 THE SITE

2.1 SITE LOCATION AND DESCRIPTION

The site is located on the western edge of Cwmgors approximately 6km northwest of Pontardawe at a National Grid Reference of 270340, 210610, see Figure 1.

The site is irregular in shape and occupies an area of approximately 1.8 hectares. The boundaries of the site are defined by the dismantled railway line and undeveloped land to the west, the continuation of the dismantled railway and residential development to the north, residential development, Heol-Y-Gors and undeveloped land to the east and undeveloped land to the south. A site plan is presented in Figure 2.

The site is situated on a relatively level development plateau created as part of the factory construction at levels of between 163m AOD and 165m AOD. An embankment forms the eastern boundary of the site with the site levels rising up to approximately 168m AOD.

Access to the site is from Heol-Y-Gors via the northeast corner of the site. The access road crosses the site towards the main former works building which is located approximately within the centre of the site. There are areas of hardstanding around the building and the remaining floor slab from a former building which has been demolished to the south of the main building.

The southern area of the site is heavily vegetated and wooded.

2.2 SITE OPERATIONS

There are no current site operations, but the main building remains on site.

2.3 SURROUNDING LAND USE

The surrounding areas are typically developed for residential use with undeveloped land to the west.

2.4 AVAILABLE SITE INVESTIGATION DATA

A ground investigation has been undertaken previously within the site by GEM Geoenvironmental Management on behalf of Bluefield Land. The findings were presented in Geo-Environmental Report Ref: GEM/1231/07 dated 16th January 2008.

2.4 AVAILABLE SITE INVESTIGATION DATA (CONTINUED)

The site investigation comprised the excavation of nine machine excavated trial pits and included sampling and both geo-environmental and geotechnical testing.

The ground conditions comprised granular made ground overlying superficial deposits comprising clay, silt, sand and gravel. The made ground extended to 1.7m below ground level within the northern area of the site and was found to extend to depths of between typically 0.6m and 1.0m across the remaining site area.

The laboratory chemical testing identified elevations of heavy metals (arsenic, chromium and lead) within the northern area of the site.

3.0 SITE HISTORY

The recent history of the site has been traced with the aid of an Envirocheck Report, a copy of which is included in Appendix A. The Envirocheck Report includes the following scaled historical maps:

Map Scale	Dates
1:2,500	1878, 1898, 1906, 1918, 1962, 1990, 1993, 1994, 2001 (aerial photo)
1:10,560	1883, 1889, 1900-1901, 1907-1908, 1921, 1938-1953
1:10,000	1964-1965, 1987-1989, 1999, 2006, 2023

The earliest edition of the map dated 1878 indicated the site to comprise undeveloped fields with the site crossed by field boundaries, some of which were lined with trees. A footpath crossed approximately through the centre of the site on a northeast to southwest orientation and a linear area of scrub vegetation was indicated to cross the southern area of the site. A surface water feature was indicated to cross the northern area of the site on an east to west orientation flowing into Garnant located approximately 120m to the west. Another unnamed feature flowed along the southern boundary. A north to south orientated road was indicated to the east of the site with the nearest development at this time being a row of houses located approximately 40m to the east along the road. The houses had associated gardens which extended up to, and encroached over, the eastern boundary of the northern area of the site. Abernant Inn was located beyond the road to the east of the site and additional development was indicated along the road to the north. Llwyn-rhidiau Colliery was located approximately 280m to the north of the site. The majority of the immediate surrounding areas were undeveloped at this time.

The 1898 edition of the map indicated the site to have remained undeveloped. There was no longer any evidence of trees or vegetation and the footpath which crossed the southern area had been slightly realigned. Development continued along the road to the north of the site and Cwmgors was more established. The colliery to the north was now known as Cwmgors Colliery.

The 1906 edition of the map indicated the site and the surrounding areas to have remained relatively unchanged.

3.0 SITE HISTORY (CONTINUED)

The 1918 edition of the map indicated that the site had been subject to earthworks to create a level development plateau which was also associated with the railway which was in the process of construction which extended to the north and south of the site. The earthworks had cleared the site of field boundaries and there was no longer any evidence of the footpath. The surface water feature which crossed the northern area had been culverted and now entered the site from the east and resurfaced approximately 20m to the west. Two small buildings were indicated on the eastern boundary of the site within the northern area. There was additional residential development along the road to the east of the site with the road now known as Pontardawe Road. Development also continued beyond the road to the east, which included a new school, and to the north of the site as Cwmgors developed and expanded. Cwmgors Colliery to the north had expanded further and was now known as New Cwmgors Colliery.

The edition of the map dated 1962 indicated a large works building to have been constructed approximately within the centre of the site. An additional smaller building was indicated to the south of the main building and another building was present within the northern area of the site. An access road had been constructed into site from the northeast corner. Earthworks associated with the road construction were also indicated with the road constructed on an embankment. Another embankment of material was indicated along the eastern edge of the site. An area of scrub vegetation was present within the southern area of the site. The mineral railway line had been constructed by this stage to follow the western boundary of the site and extending to the north and south. One of the tracks encroached into site and continued along the western boundary. The colliery to the north continued to expand and be operational to the north. Large spoil heaps associated with the colliery were also indicated adjacent to the colliery buildings. Development also continued within Cwmgors.

The 1990 edition of the map indicated the site and the immediate surrounding areas had remained relatively unchanged. It is understood that operations within Cwmgors Colliery ceased in 1964. The spoil heaps associated with the colliery had been cleared/reprofiled by this time.

The 1993 edition of the map indicated that the site had remained relatively unchanged apart from the removal of the smaller southern building. Development continued in the vicinity of the site.

3.0 SITE HISTORY (CONTINUED)

The year 2000 aerial photo indicated the main works building to be present approximately within the centre of the site and with a new building constructed to the south to replace the original smaller building. The buildings were surrounded by areas of hardstanding with access to the site and buildings still indicated from the northeast corner. The southern area of the site was indicated to be heavily vegetated. The mineral railway was dismantled by circa 2003.

The smaller southern building had been demolished by the aerial photo dated 2009 but evidence of the floor slab remained. The southern area was less vegetated and with some of the trees removed by this time. The site and the surrounding areas have remained relatively unchanged between 2009 and the present day.

4.0 SITE ENVIRONMENTAL SETTING

4.1 PHYSICAL SETTING

The site is located within a mixed residential and rural setting on the western edge of Cwmgors.

The site is situated on a relatively level development plateau created as part of the factory construction at levels of between 163m AOD and 165m AOD. An embankment forms the eastern boundary of the site with the site levels rising up to approximately 168m AOD.

4.2 GEOLOGY

The 1:50,000 and 1:10,560 scale (Sheet SN 71 SW) geological maps of the area indicate the majority of the site to be underlain by bedrock of the South Wales Middle Coal Measures Formation of the Carboniferous period. These rocks typically comprise grey productive coal-bearing mudstones/siltstones, with seatearths and minor sandstones. The southern area of the site is underlain by bedrock of the South Wales Upper Coal Measures Formation also of the Carboniferous period. These rocks typically comprise grey productive coal-bearing mudstones/siltstones with seatearths and minor grey, quartz-rich sandstones, coals and ironstones. There are no strata dips in the vicinity of the site but dips further to the northeast are indicated to be shallowly dipping at between 5° and 8° to the south.

The geology map indicates an approximately northwest to southeast trending fault to encroach beneath the northeast corner of the site. The conjectural outcrop of the Upper Cwmgorse Marine Band crosses the southern area of the site at the geological boundary between the Middle and Upper Coal Measures. The Red seam is indicated to outcrop approximately 200m to the north of the site and due to the southerly strata dips this seam could underlie the site at marginally shallow depths. The Generalized Vertical Section indicates the Lower Welsh coal seam to be located in between the Red seam and the Upper Cwmgorse Marine Band in the sequence. This seam could therefore outcrop within the site.

Superficial Devensian Till deposits of the Quaternary period are indicated to overlie the solid strata. These deposits are typically poorly sorted and variable in nature comprising clays, sands and gravels. A geology plan extract is shown on Figure 3.

A variable thickness of made ground is anticipated above the superficial deposits across most of the site associated with the construction of the factory.

A summary of the anticipated geological succession is given below in Table 1.

4.2 GEOLOGY (CONTINUED)

Table 1 : Summary of Anticipated Site Geology		
Geological unit	**Horizon**	**Description**
Recent	Made ground	Various materials
Quaternary	Devensian Till	Poorly sorted and variable clays, sands and gravels.
Carboniferous	South Wales Middle Coal Measures Formation	Grey productive coal-bearing mudstones/siltstones, with seatearths and minor sandstones.
	South Wales Upper Coal Measures Formation (southern area)	Grey productive coal-bearing mudstones/siltstones with seatearths and minor grey, quartz-rich sandstones, coals and ironstones.

4.3 RADON

Information with regard to Radon Protective Measures is provided within the Envirocheck Report and the BGS Radon GeoReport as presented in Appendices A and B respectively. The reports state that the site is located within a lower probability area, as less than 1% of properties are above action level, and that therefore no radon protective measures would be necessary in the construction of new buildings within the site.

4.4 MINING

The site is located within a coal mining reporting area and therefore a Consultants Coal Mining Report has been obtained from the Coal Authority and a copy is included in Appendix B.

The Coal Authority state that there are recorded workings within two seams of coal, namely the Abergorchi and the Lower Nine Feet Top Leaf seam, at depths of between 37m and 407m.

The workings are recorded within the Arbergorchi seam (also known as the Red seam as shown on the geology map) at depths of 37m and 65m and were last worked in 1915. The extraction thickness for the workings was 167cm. The Coal Authority Interactive Map indicates the workings at 37m depth are located beneath the northern area of the site (but not extending to the northern site boundary) and the workings at 65m depth are recorded beneath the southern and western area of the site.

4.4 MINING (CONTINUED)

The recorded workings at 407m depth are within the Lower Nine Feet Top Leaf seam and were last worked in 1940. The extraction thickness for these workings was 112m. The Coal Authority Interactive Map indicates the workings at 407m depth are located beneath the majority of the site. It is considered that the shallowest recorded workings at 37m would be at a depth that would not pose a subsidence risk at the surface.

The Coal Authority state that the probable unrecorded workings is “none” and there are no recorded shallow roadways. However, this does not mean that shallow workings or roadways do not exist, but rather any information to support this has not come into the possession of the Coal Authority. Although the geological maps indicate that there are no conjectural coal outcrops within the vicinity of the site, the Coal Authority state that the Hafod seam (likely to be referencing the Lower Welsh seam as shown on the geology map) outcrops beneath the northern area of the site on an approximately west to east orientation. The Coal Authority indicates this seam to be of a workable thickness. There are no dips indicated in the vicinity of the site, but the Coal Authority indicate the dipping rate of the worked seams beneath the site is 5.5º to 9.3º to the south and southwest. Based on a southerly to south westerly strata dip this seam would underlie the site at shallow depths to the south of the outcrop. There is also a potential for unrecorded workings within the Abergorchi seam at depths shallower than 37m beneath the northern edge and north western corner of the site. This seam has the potential to be marginally shallow beneath the northern and northwestern area.

The Coal Authority confirm that there are no mine entries recorded on site but two within 100m of the site boundary. A summary of the mine entry data is presented in Table 2.

Table 2: Published Mine Entry Data

Ref:	Shaft/Adit	Approx. distance from site (m)	Assumed Diameter (depth if available) (m)	Probable Adit Azimuth (degrees)	CA Easting, Northing (Desk based)	CA Assigned Departure Distance (m)
270210-012	Shaft	45m north	2.5m	N/A	270422 210828	8m
270210-013	Shaft	35m northeast	2.5m	N/A	270396 210636	8m

The off-site shafts are located greater than 20m from the site boundary, even when considering the potential Coal Authority assigned departure distance. A 20m buffer zone is usually recommended around mine entries such as shafts. Therefore, these shafts are not located within influencing distance of the site. Allowances should be made for the possibility that unrecorded features could be present on or within an influencing distance of the site.

4.4 MINING (CONTINUED)

The geology map and the Coal Authority indicate a fault to cross beneath the northeast corner of the site. The location of this fault should be considered prior to development.

The Coal Authority indicate a large unlicensed opencast site to be located approximately 30m to the northwest of the site.

The Coal Authority states that there are no managed tips recorded within 500m of the site boundary. The latest guidance published by the Welsh Government and its partners include a Mining and Coal Tip Safety document, published on the 14th of November 2023, which assigns an identification number (UID), a category, and the immediate status of each disused coal tip in Wales. This document also confirms that there are no managed tips within an influencing distance of the site.

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

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

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

The Coal Authority states that with regards to mine gas there has been none recorded within 500m of the site boundary.

Gas evolution from coal seams and accumulated sources such as abandoned tunnels and workings cannot be discounted and will require further assessment conducted in accordance with CL:AIRE document Good Practice for Risk Assessment for Coal Mine Gas Emissions, dated October 2021.

The area of the site in the vicinity of the coal outcrops is indicated to be located within a high-risk development area and therefore a mine gas risk assessment should be undertaken. The initial desk-based assessment of the site will be utilised in order to develop the level of mine gas risk within the site.

4.4 MINING (CONTINUED)

There are many sources of gas in mine workings including desorption of gas from coal and rocks, oxidation of coal, decomposition of old wood (such as pit props) and acidic mine drainage reacting with carbonate in the rocks around the seam or shaft. These gases, if produced within the old workings, would need a viable pathway to the surface such as a shaft or fractured rock above the workings.

The desk study shows that a high-risk development area crosses through the site associated with the coal outcrop as indicated by the Coal Authority. This high-risk zone is associated with the potential for shallow unrecorded workings within this seam.

There are two mine entries recorded within 50m of the site boundary but no pathway features such as shafts or adits are located within the site.

There is one fault indicated to cross the northeast corner of the site. There would be viable pathways via fractured rock or fault zones if this fault reached the surface. It should be noted that superficial deposits of unknown thickness are known to overly the site and no development has been proposed in the vicinity of the fault.

Based on the desk-based research, the potential risk from coal mine gas emissions at the development site is considered below:

Figure 13.1 Decision Support Tool for Mine Gas Risk Assessment, included within CL:AIRE document Good Practice for Risk Assessment for Coal Mine Gas Emissions, dated October 2021 includes a flow chart to aid the risk assessment process and decision making.

Stage 1 of the flow chart asks if the site is within a Coal Authority defined Coal Mining Reporting Area. Since the site is located within a Coal Authority defined Coal Mining Reporting Area the flow chart then asks if all of the following statements are true:

- Mine entries >50m from site boundary,
- Workings >150m depth,
- No faults or other potential pathways connecting surface to deeper unflooded workings,
- Outside area of past or probable shallow workings on Coal Authority viewer

Based on the information gained from the desk-based research, it is considered that the Stage 1 statements are not true due to the recorded workings as shallow as 37m and the potential for additional shallower unrecorded workings. The off-site shafts are within 50m of the site boundary and there is a fault within the site.

4.4 MINING (CONTINUED)

Intrusive works would be required in order to complete the mine gas risk assessment using site specific data including the confirmation of the presence of any shallower workings and also to determine the thickness and permeability characteristics of superficial deposits. It may become a requirement to undertake a programme of gas monitoring to aid with the risk assessment if superficial deposits are thin or if additional workings are found.

Based on the information provided by the Consultants Coal Mining Report and the desk-based research it is considered that there is a risk of unrecorded shallow workings beneath the site within the Lower Welsh (Hafod) seam. There is also a potential for shallower unrecorded workings within the Abergorchi (Red) seam beneath the northwest corner of the site.

The Coal Authority interactive map indicates that a high-risk area crosses the site on an east to west orientation associated with the coal outcrop. However, our desk-based research would extend the high-risk zone across the site to the south of the outcrop, as shown on Figure 3.

Intrusive investigation in the form of deep rotary boreholes to a depth of 30m to 35m would be required to determine the level of risk to the development and to define the risk based on site specific data. If shallow unrecorded workings are encountered, then a programme of gas monitoring may also become required to aid with the mine gas risk assessment. It is recommended that the boreholes are drilled across the development area to the south of the outcrop, and it would also be prudent to confirm the depth to the Abergorchi (Red) seam beneath the northwest corner of the site.

4.5 HYDROLOGY, HYDROGEOLOGY AND FLOOD RISK

The Envirocheck Report indicates that the nearest surface water feature is located on site crossing the northern area and partially culverted underground. Another unnamed feature is recorded 10m south of the site. These features flow into Garnant located 81m to the northwest.

The Natural Resources Wales groundwater vulnerability map and aquifer database classifies the bedrock beneath the site as a Secondary ‘A’ Aquifer. Secondary ‘A’ Aquifers are 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.

4.5 HYDROLOGY, HYDROGEOLOGY AND FLOOD RISK (CONTINUED)

The Natural Resources Wales groundwater vulnerability map and aquifer database classifies the superficial deposits beneath the site as Secondary Aquifer-Undifferentiated. This classification is assigned in cases where it has not been possible to attribute either category A or B to a soil type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the material.

A perched water body could be encountered within any made ground or within any more granular shallow soils. Vertical migration of groundwater is likely to be limited by the high clay content of the superficial deposits.

It is considered possible that the existing site drainage could act as a pathway for potential surface contaminants.

There are no effective discharge consents recorded within 500m of the site boundary.

The Envirocheck Report states that there are no water abstractions recorded within 500m of the site boundary. The nearest groundwater abstraction is recorded 862m to the east where a single point abstraction is used for general farming and domestic use. There are no surface water abstractions recorded within 1km of the site boundary

Tables 3 and 4 present a summary of the hydrological features and key hydrogeological nature of the site.

Table 3: Summary of Site Hydrology

Feature	Distance from site	Flow	Classification	Abstraction	Discharge
Unnamed surface and below ground water feature	Northern area	Westerly	Inland river	No	Garnant
Unnamed surface and below ground water feature	10m south	Westerly	Inland river	No	Garnant
Garnant	81m northwest	Northerly	Inland river	No	River Amman
Surface run-off	On site	Flows into site drainage	N/A	No	Not known
Site Drainage	On site	Not known	N/A	No	Not known

4.5 HYDROLOGY, HYDROGEOLOGY AND FLOOD RISK (CONTINUED)

Table 4: Summary of Site Hydrogeology				
Geological Unit	Aquifer Classification	Aquifer Characteristics	Source Protection Zone	Groundwater Abstractions
Made ground	Not classified	Highly variable permeability and porosity. Perched water may be present with variable flow directions.	No	None
Devensian Till	Secondary Aquifer-Undifferentiated	Variable low to moderate permeability and porosity with intergranular flow possible. High clay content likely to restrict flow.	No	None
South Wales Upper and Middle Coal Measures	Secondary A Aquifer	Variable moderate permeability coal-bearing mudstones/siltstones, sandstones and ironstones within the upper measures capable of supporting water supplies at a local rather than strategic scale	No	None

The Groundwater Vulnerability map of the area indicates the secondary bedrock aquifer to have a medium vulnerability. The pollutant speed is low with well-connected fractures.

The Natural Resources Wales Flood Risk map as presented within the Envirocheck Report indicates that the site is not at risk of extreme flooding from rivers or sea without defences.

The Natural Resources Wales Surface Water Flood Risk map as presented within the Envirocheck Report indicates that the majority of the site is not at a high-risk of surface water flooding (1 in 30-year flood extent). However, the map indicates that isolated areas around the main building, within the southern area and encroaching across the eastern boundary of the northern part of the site, are indicated to be at high risk.

The BGS Groundwater Flooding Susceptibility map as presented within the Envirocheck Report indicates the site to have potential for groundwater flooding to occur at surface.

4.6 LANDFILL SITES

The Envirocheck Report indicates that there are no historical, BGS recorded or local authority recorded landfill sites or any licensed waste management facilities located within 1km of the site boundary.

4.6 LANDFILL SITES (CONTINUED)

There is one area of potentially infilled land (non-water) recorded within 250m of the site boundary. The area is located 172m to the northeast of the site at the location of the former colliery.

4.7 POTENTIAL CONTAMINATION

Previous Uses

The various activities in the vicinity of the site which may have resulted in ground or water resource contamination on this site are listed below in Tables 5 and 6. A summary of the potential contaminants can be found in the tables.

Table 5: Potential Contaminants

Land Use: Undeveloped land until circa 1918		
Material/Process	**Contamination/Hazard**	**Evidence**
Possible agricultural land	No potential contaminants	Historical maps
Land Use: Reprofiling works/earthworks since 1918		
Material/Process	**Contamination/Hazard**	**Evidence**
Earthworks within the site to create a development plateau across the site associated with the construction of the railway which may have utilised imported materials of unknown origin	Metals, semi metals, non-metals, PAH, asbestos	Historical maps
Construction of small buildings on the eastern edge of the site which would have disturbed the ground and may have utilised imported materials of unknown origin	Metals, semi metals, non-metals, PAH, asbestos	Historical maps

4.7 POTENTIAL CONTAMINATION (CONTINUED)

Table 5: Potential Contaminants (Continued)		
Land Use: Construction of works building and railway line by 1962		
Material/Process	**Contamination/Hazard**	**Evidence**
Construction of the buildings within the site which would have disturbed the ground and may have utilised imported material of unknown origin	Metals, semi metals, non-metals, PAH, asbestos	Historical maps
Evidence of additional earthworks along the eastern edge and within the northern area of the site associated with the construction of the access road	Metals, semi metals, non-metals, PAH, asbestos	Historical maps
Construction of railway line including a track which encroached across and along the western boundary of the site	Metals, semi-metals, non-metals, PAH, asbestos	Historical maps
Use and maintenance of the railway track and potential uses of the works buildings, and general site uses	Petroleum hydrocarbons (fuels/oils)	Former site uses
Potential for contamination in the vicinity of any electrical substations/transformers (if any are present on site or located within the building)	Polychlorinated Biphenyls (PCBs)	Anecdotal
Asbestos containing material (ACM) within the building fabric	Asbestos containing material (ACM)	Anecdotal
Subsequent dismantling of the railway which encroached across the site and demolition of some of the buildings within the site which would have caused further ground disturbance	Metals, semi-metals, non-metals, PAH, asbestos	Historical maps and aerial photos

Existing Uses

The operations on site have ceased. The current site uses would not add any additional contamination concerns.

4.7 POTENTIAL CONTAMINATION (CONTINUED)

Adjacent Site Uses

Table 6: Potential Contaminants: Adjacent Site Uses		
Potential Contamination Source	**Boundary**	**Associated Contaminants and Hazards**
Undeveloped land	Southern	No Potential Contaminants
Existing residential development with associated land and Heol-Y-Gors	Eastern	No Potential Contaminants
Residential development with associated land	Northern	No Potential Contaminants
Former railway embankment	Western and northern	Metals, semi-metals, non-metals, PAH, petroleum hydrocarbons, asbestos

4.8 OTHER ENVIRONMENTAL ISSUES

The Envirocheck Report does not indicate any environmentally sensitive land within 250m of the site boundary.

The Envirocheck Report indicates that there have been no pollution incidents to controlled waters recorded on site but two within 250m of the site boundary. The nearest incident was a Category 3-Minor Incident recorded 105m to the west involving an unknown pollutant. Another minor incident was recorded 110m to the north of the site involving crude sewage. No Category 2-Significant Incidents have been recorded within 1km of the site boundary.

There have been no substantiated pollution incidents registered on site or recorded within 1km of the site boundary.

There have been no prosecutions relating to controlled waters or to authorised processes recorded on site or recorded within 1km of the site boundary.

There is one active Contemporary Trade Directory Entry registered within 250m of the site boundary. The entry is classified as Damp and Dry Rot Control for Mike Thomas Preservation.

The site is registered as a Point of Interest-Manufacturing and Production with the class code given as Unspecified Works or Factories.

4.8 OTHER ENVIRONMENTAL ISSUES (CONTINUED)

There is vegetation within the site, and it is not known if any invasive plants are present. It would be prudent to undertake a full vegetation survey prior to development.

5.0 PRELIMINARY CONCEPTUAL SITE MODEL

5.1 RISK ASSESSMENT FRAMEWORK

In order to be consistent with current UK government policies and legislation, it is necessary to identify, assess, estimate, evaluate, and take appropriate action to deal with land contamination, in accordance with the procedures specified in the Environment Agency guidance Land Contamination Risk Management (LCRM) published in October 2020. This replaces the now withdrawn 'Model Procedures for the Management of Land Contamination CLR-11' (Environment Agency 2004).

The risk assessment process is designed to provide a reasoned, structured and pragmatic mechanism for the identification of any potential human health and controlled waters risks associated with land contamination and where necessary to develop a robust remediation strategy to ensure protection of the sensitive receptors (human health of future residents, controlled waters, etc).

In accordance with LCRM, the term 'land contamination' is defined as:

- All land affected by contamination – land that might have contamination present which may, or may or may not, meet the statutory definition of contaminated land,
- Land determined as contaminated land under Part 2A of the Environmental Protection Act 1990.

LCRM provides a tiered approach to risk assessment, comprising a preliminary risk assessment (including the development of an initial conceptual site model), a generic quantitative risk assessment and a detailed quantitative risk assessment. For each tier of risk assessment, the following steps must be followed:

1. Identify the hazard - establish contaminant sources,
2. Assess the hazard – use a source-pathway-receptor linkage approach to determine if there is potential for unacceptable risk,
3. Estimate the risk – predict what degree of harm or pollution may result and how likely it is to occur, and
4. Evaluate the risk – decide whether a risk is unacceptable.

LCRM also provides definitions of the following terms:

- Hazard – a property or situation that in particular circumstances could lead to harm or pollution,

5.1 RISK ASSESSMENT FRAMEWORK (CONTINUED)

- Risk – a combination of the probability, or frequency of occurrence of a defined hazard and the magnitude of the consequences of the occurrence,
- Risk assessment – the formal process of identifying, assessing and evaluating the health and environmental risks that may be associated with a hazard,
- Risk management – the formal process to identify, assess and determine the risks, and to select and take action to mitigate them.

The three essential elements to any risk are defined by LCRM as follows:

- A contaminant, or pollutant, that is in, on, or under the land and that has the potential to cause harm, or pollution (Source)
- A route by which a receptor is, or could be affected by a contaminant (Pathway)
- A receptor, i.e. something that could be adversely affected by a contaminant, for example a person, controlled waters, an organism, an ecosystem, or Part 2A receptors such as buildings, crops or animals (Receptor).

In order for there to be a potential risk, all three of the above elements must be present. If there is a source of contamination and a receptor (for example a resident or site user), then there is only a potential risk if there is a pathway linking the two. Such an active pathway is known as a relevant pollutant linkage. It is possible for the same contaminant to be linked to a receptor via a number of pathways, and hence it is important that all relevant pollutant linkages, to both human health and controlled waters, are separately identified on a site in order that a comprehensive conceptual model can be formed and ultimately a robust remediation strategy designed.

Current practice during Generic Quantitative Risk Assessment of land affected by contamination is to use generic soil screening values based on the appropriate proposed end use. These usually comprise risk-based Soil Guideline values (SGVs) or Generic Assessment Criteria (GACs) derived by the Environment Agency's Contaminated Land Exposure Assessment Model (CLEA). The SGVs and the supporting technical guidance were developed in order to assist in the assessment of long-term risk to human health from the exposure to contaminated soils.

Revised Statutory Guidance, published in 2012, to support Part 2A of the Environmental Protection Act 1990, introduced a new four category system for classifying land under Part 2A. Category 1 includes land where the level of risk is clearly unacceptable and Category 4 includes land where the level of risk posed is considered to be acceptably low. Under Part 2A, land would be determined as contaminated if it falls within Categories 1 or 2.

5.1 RISK ASSESSMENT FRAMEWORK (CONTINUED)

The revised Part 2A Statutory Guidance was accompanied by an Impact Assessment that identified a role for new 'Category 4 Screening Levels' (C4SLs) that would provide a simple test for determining when land is suitable for use and definitely not contaminated land. A Policy Companion Document including the C4SLs was published in March 2014 (England) and May 2014 (Wales).

The C4SLs have been based on the CLEA methodology and derived using the CLEA model, with modified toxicological and exposure parameters. To date, C4SLs have been released for six substances (arsenic, cadmium, chromium (VI), lead, benzo(a)pyrene and benzene).

The C4SLs have been derived on the assumption that where they exist, they will be used as generic screening criteria within generic quantitative risk assessment.

Following publication of the C4SLs, Land Quality Management (LQM), in conjunction with the Chartered Institute for Environmental Health (CIEH) released Suitable 4 Use Levels (S4ULs) in January 2015.

The S4ULs have been derived in accordance with UK legislation, and using a modified version of the Environment Agency's CLEA software. As such, the S4ULs are based on the concept of minimal or tolerable risk as described in Human Health Toxicological Assessment of Contaminants in Soil (Science Report SR2, Environment Agency 2009a).

S4ULs have been derived for a wider number of substances.

In addition to the existing SGVs, C4SLs and S4ULs, Atkins ATRISK^{soil} also provide a set of Soil Screening Values. These are currently intended to be used in conjunction with SGVs, although they intend to update these values in line with the C4SLs in due course.

We have reviewed all sets of values and intend to use the most appropriate assessment criteria as Tier 1 screening values in the first instance. Where a published S4UL is available, and considered appropriate, this will be used in the first instance.

5.2 CONCEPTUAL MODEL FRAMEWORK

The preliminary stage of the risk assessment process is to develop and define a conceptual site model, based on the desk study and any existing site investigation data. This is used to establish any potential contaminant sources, identify existing and future receptors and assess if there are any potentially active pathways by which a potential risk may be present.

5.2 CONCEPTUAL MODEL FRAMEWORK (CONTINUED)

The preliminary conceptual site model will be developed and refined as site specific data is gathered, such as actual ground conditions and chemical data, resulting in a more robust conceptual understanding of the site.

5.3 CRITICAL SENSITIVE RECEPTOR – HUMAN HEALTH

The proposed redevelopment of the site is for a residential end use. Therefore, the critical sensitive receptor from a human health perspective is an on-site residential receptor.

In accordance with S4UL/C4SL and CLEA guidance for a standard residential with homegrown produce scenario, the critical sensitive receptor for a residential end use risk assessment is a female child, with exposure from 0 to 6 years.

The standard residential with homegrown produce end use conceptual model defined by S4UL/C4SL and CLEA is assumed to be suitable for the purposes of this assessment.

5.4 CRITICAL SENSITIVE RECEPTOR – CONTROLLED WATERS

Based on the proposed redevelopment of the site for a residential end use, and the findings of the desk study, the critical sensitive receptor from a controlled water perspective is groundwater within the Secondary 'A' Aquifer of the South Wales Upper and Middle Coal Measures Formation.

By considering groundwater as the critical sensitive receptor for controlled waters, the groundwater/hydrogeological risk assessment will also be protective of the feature which crosses the site which flows into Garnant to the west.

5.5 POTENTIAL CONTAMINANT SOURCES

As identified in the desk study, the site was undeveloped until 1918 when there was evidence of some reprofiling of the topography to create a development plateau and associated with the construction of the railway line. The main factory building was constructed within the site during the 1960's and there was evidence of further reprofiling.

The potential types of contaminants of concern are listed below:

- Metals, semi-metals, and inorganics within the shallow made ground,
- Polyaromatic hydrocarbons (PAH) within the shallow made ground,
- Petroleum Hydrocarbons (VPH/EPH) within the shallow made ground,

5.5 POTENTIAL CONTAMINANT SOURCES (CONTINUED)

- Polychlorinated Biphenyls (PCBs) within the shallow made ground in the vicinity of electrical substations/transformers (if present on site or within the building),
- Asbestos within the shallow made ground and the building fabric.

Potential for generation of ground gases such as methane and carbon dioxide depending upon the nature and thickness of the made ground. Potential risk of mine gas from shallow unrecorded workings.

5.6 POTENTIAL EXPOSURE PATHWAYS

Potential exposure pathways for the critical receptors (both human health and controlled waters) are listed below:

- Dermal contact with soil and/or soil derived dust,
- Ingestion of soil and/or soil attached to home-grown produce,
- Ingestion of home-grown produce,
- Inhalation of soil derived dust,
- Inhalation of vapours – indoor and outdoor air,
- Leaching of contaminants from made ground to groundwater,
- Transportation of contaminants within groundwater.

In addition, the following exposure pathways have also been considered:

- Ground gas generation and migration,
- Building materials durability.

5.7 SUMMARY OF CONCEPTUAL EXPOSURE MODEL

A preliminary conceptual exposure model has been developed for the site. This is based on the findings of the desk study, historical review and includes all potential sources, pathways and receptors that may be present on site. Those that have been identified as being potentially active require further investigation in the form of sampling and testing of soils and groundwater, followed by appropriate risk assessment.

The preliminary conceptual exposure model will be reviewed and refined following the completion of the site works and laboratory testing.

The preliminary conceptual exposure model is presented below in Table 7.

5.7 SUMMARY OF CONCEPTUAL EXPOSURE MODEL (CONTINUED)

Table 7: Preliminary Conceptual Exposure Model

Source		Receptor	Pathway	Potentially Active Pathway?
Origin	Contaminant			
Made Ground of unknown origin and historical land uses	Metals, semi-metals, non-metals, PAH, petroleum hydrocarbons, asbestos	Resident – human health	Dermal Contact with made ground/dust	✓
			Ingestion of soil and/or soil attached to home-grown produce	✓
			Ingestion of home-grown produce	✓
			Inhalation of dust	✓
			Inhalation of vapours – indoor/outdoor	✓
	Metals, semi-metals, inorganics, PAH, petroleum hydrocarbons	Groundwater quality	Leaching from made ground	✓
	Metals, semi-metals, inorganics, PAH, petroleum hydrocarbons	Surface water quality	Transportation within groundwater	✓
Asbestos containing material (ACM) within the building fabric	Asbestos containing material (ACM)	Human health	Inhalation of dust/fibres	✓
Electrical substation or transformer (if present within the building or on site)	Polychlorinated Biphenyls (PCBs)	Resident – human health	Dermal Contact with made ground/dust	✓
			Ingestion of soil and/or soil attached to home-grown produce	✓
			Ingestion of home-grown produce	✓
			Inhalation of dust	✓
			Inhalation of vapours – indoor/outdoor	✓
	Polychlorinated Biphenyls (PCBs)	Groundwater quality	Localised spillage	✓
	Polychlorinated Biphenyls (PCBs)	Surface water quality	Transportation within groundwater	✓
Made Ground of unknown origin and natural ground	pH and water-soluble sulphate	Building Materials Durability	Direct contact	✓

5.7 SUMMARY OF CONCEPTUAL EXPOSURE MODEL (CONTINUED)

Table 7: Preliminary Conceptual Exposure Model (Continued)

Source		Receptor	Pathway	Potentially Active Pathway?
Origin	Contaminant			
Ground and Mine Gas – organic, gas producing materials	Methane, carbon dioxide	Human health	Accumulation of gases in confined spaces, and/or migration off site, leading to asphyxiation, or risk of explosion	✓

6.0 ANTICIPATED GROUND CONDITIONS

Based on the geological map data, historical records and available site investigation data, the following general succession of superficial deposits and underlying solid geology beneath the site is anticipated:

Recent	
(Made Ground)	Variable material could contain reworked natural ground
Quaternary	
(Devensian Till)	Poorly sorted and variable clays, sands and gravels.
Carboniferous	
(South Wales Middle Coal Measures Formation)	Grey productive coal-bearing mudstones/siltstones, with seatearths and minor sandstones.
South Wales Upper Coal Measures Formation (southern area)	Grey productive coal-bearing mudstones/siltstones with seatearths and minor grey, quartz-rich sandstones, coals and ironstones.

Available information indicates that the made ground is typically granular in nature comprising clayey sandy gravels with cobbles, boulders and brick fragments and in areas with some ash and slag. The made ground was found to extend to approximately 1.7m depth within the northern area of the site and typically 0.6m to 1.0m within the remaining site area.

The Devensian Till deposits are known to be highly variable in nature but the thickness of these deposits beneath the site is not known.

Bedrock would not be anticipated within shallow excavations.

Localised seepages of perched groundwater could be encountered within the made ground or within the more granular superficial deposits. Groundwater is likely to be at greater depths within the weathered bedrock.

7.0 SITE ASSESSMENT

7.1 ENVIRONMENTAL RISK ASSESSMENT

This assessment takes due regard of Contaminated Land Guidance issued by DEFRA and RICS. The methods used follow a risk-based approach with the potential environmental risk assessed qualitatively using the 'source-pathway-receptor' pollutant linkage concept set out in the Environment Protection Act 1990.

Although the risk presented in the following tables and above is descriptive, it is correlated to a numerical chance of occurrence. Therefore, the range and percentage chance of occurrence is given in order that the reader may assess the datum for the risk level. Although the percentage chance is quoted, this is still a subjective evaluation and is not prepared by probabilistic determination. Therefore, the chance of occurrence is a value judgement and not a numerical calculation. The evaluation is a simple qualitative risk assessment, which cannot make a judgement on the probability of occurrence or level of contamination. The latter two aspects require site specific information.

Reference to risk classifications is made according to the following definitions.

Low Risk	It is unlikely that the issue will arise as a liability/cost.
Medium Risk	It is possible that the issue could arise as a liability/cost. Further work is needed to clarify the risk and consequences.
High Risk	It is likely that the issue will arise as a liability/cost.

In consideration of the information gathered and presented in this report the following risk appraisal is considered appropriate.

Table 8: Environmental Risk Assessment

Issue	Risk Category	Comments
Site sensitivity		
Sensitivity of site location	Low	• Site is not within a 'groundwater source protection zone' a 'nitrate vulnerable zone', or an 'area of outstanding natural beauty'.
Environmental sensitivity of adjacent land uses	Low/medium	• Site situated in a mainly undeveloped or residential area but with Garnant flowing to the west

7.1 ENVIRONMENTAL RISK ASSESSMENT (CONTINUED)

Table 8: Environmental Risk Assessment (Continued)

Issue	Risk Category	Comments
Contamination potential		
Potential for significant on-site contamination	Medium	• Site formerly used for metal fabrication but not using heavy industrial processes • Potential for contaminated made ground associated with past development and site uses • Potential for contamination associated with building fabric (asbestos) • Potential for localised contamination associated with any electrical transformers or substations
Potential for contaminants migrating off from the site	Low/medium	
Potential for contaminants migrating onto the site	Low	
Potential for other environmental issues to give rise to liabilities	Low	
Environmental Consequences		
Risk of pollution of controlled waters	Low/medium	• Any made ground encountered beneath the site has potential to be variable in nature and hot spots/areas should be anticipated
Risk of damage to future property	Medium	
Risk of harm to human health	Medium	
Business Consequences		
Risk of liability for owner	Medium	• Previous land use has potential to cause hot spots/areas of contamination within the made ground
Likelihood of designation as Contaminated Land under EPA 1990	Medium	
Risk of site value and/or saleability being affected	Low/medium	
Overall Risk	Medium	

7.2 GEOTECHNICAL HAZARDS AND CONSTRAINTS

A summary of commonly occurring geotechnical hazards is given in Table 9, together with an assessment of whether the site may be affected by each of the stated hazards. This information may be required should any future construction works or further building expansion be proposed.

7.2 GEOTECHNICAL HAZARDS AND CONSTRAINTS (CONTINUED)

Table 9: Summary of Potential Geotechnical Hazards

Issue (excluding contamination issues)	**Hazard Status**			**Engineering considerations**
	Likely to be present on site	Could be present on site	Unlikely to be present and/or affect the site	
Shrinkable clays		✓		Special requirements for foundation and floor design near trees or hedgerows
Filled and made ground	✓			Would require assessment followed by potential removal, encapsulation or remediation
Highly compressible and low bearing capacity soils including peat and soft clay		✓		Allowances should be made for the removal and replacement of any soft spots/areas
Silt rich soils susceptible to rapid loss of strength in wet conditions	✓			All formations should be protected from wet weather and site traffic
Adverse ground chemistry (including expansive slags, weathering of sulphides to sulphates)		✓		Allowances should be made for appropriate testing should any potentially expansive materials, such as slag, or any potentially combustible materials, such as coal, be encountered within the shallow excavations
Combustibility potential		✓		
Solution features			✓	
Evaporite dissolution features and subsidence			✓	
Ground subject to peri-glacial valley cambering with gulls present			✓	
Sudden lateral changes in ground conditions		✓		Potential for differences in founding levels between the previously developed and undeveloped areas of the site. Made ground likely to be variable in thickness and the superficial deposits will also be variable

7.2 GEOTECHNICAL HAZARDS AND CONSTRAINTS (CONTINUED)

Table 9: Summary of Potential Geotechnical Hazards (Continued)

Issue (excluding contamination issues)	**Hazard Status**			**Engineering considerations**
	Likely to be present on site	Could be present on site	Unlikely to be present and/or affect the site	
Existing sub structures (e.g. foundations and pits)	✓			Former factory building is still present on site and floor slabs remain from another demolished building. Allowances should be made for deeper foundations within this area if grubbing up of buried obstructions causes significant disturbance
Ground subject to vibration			✓	
Underground mining (shallow)		✓		Allowances should be made for further investigation due to the potential for shallow unrecorded workings. The use of additional reinforcement to span voids or drilling and grouting remediation works prior to construction may be required
Mine entries (shafts and adits, bell pits)		✓		Possibility of unrecorded mine entries so a watching brief during site works is recommended
Ground subject to or at risk of coastal or river erosion			✓	
Ground subject to, or at risk from landslips or slope instability		✓		The site is relatively level with evidence of earthworks to form a development plateau creating an embankment of material along the eastern edge of the site. Allowances should be made to potentially assess or protect this slope during construction works
High water table (including waterlogged ground)			✓	Any water infiltrations should be dealt with using conventional pumping techniques

7.2 GEOTECHNICAL HAZARDS AND CONSTRAINTS (CONTINUED)

Table 9: Summary of Potential Geotechnical Hazards (Continued)

Issue (excluding contamination issues)	**Hazard Status**			**Engineering considerations**
	Likely to be present on site	Could be present on site	Unlikely to be present and/or affect the site	
Culverted watercourses	✓			Existing feature known to cross beneath the northern area of the site. Allowances should be made to either protect or divert this feature during construction works.
Rising groundwater table due to diminishing abstraction in urban areas or cessation of deep mining			✓	

8.0 SITE INVESTIGATION PROPOSALS

Prior to redevelopment of the site, a comprehensive intrusive site investigation would be required, over the entire site, in order to facilitate a detailed technical and financial appraisal. This would enable the foundation and hardstanding design for any proposed development to be developed using specific data on the ground conditions and enable more accurate costings to be made.

Investigation works should give consideration to the following:

- Coal mining legacy risks associated with shallow underground mine workings and mine gas,
- Foundation and floor slab design,
- Excavation stability design,
- Remediation requirements,
- Soil infiltration potential,
- Groundwater control.

In particular, the principal geoenvironmental and geotechnical issues to be addressed are:

- The presence of shallow underground mine workings,
- Foundation strata - level, strength, compressibility, and chemical characteristics,
- Presence or absence of shrinkable clays,
- The extent of any ground contamination, including potential asbestos in the ground,
- The potential for mine or ground gas to be present beneath the site.

Investigation techniques to be adopted should include:

- Trial pits could be used to examine the shallow ground conditions and include BRE 365 compliant soil infiltration testing within selected trial pits,
- Rotary probeholes to examine the deeper ground conditions including the location, depth and condition of any underlying coal seams,
- Laboratory chemical testing of any made ground to determine soil chemistry to include a range of organic and inorganic contaminants, screening for asbestos, and also petroleum hydrocarbons,
- Laboratory geotechnical testing to determine soil plasticity.

Further works in the form of deeper boreholes may become required if competent ground is not encountered at shallow depths or if significant made ground or organic material is encountered that would require a programme of gas monitoring. Alternatively, windowless sample boreholes could be drilled in order to install gas monitoring standpipes if required.

8.0 SITE INVESTIGATION PROPOSALS (CONTINUED)

Allowances should also be made for additional chemical testing depending upon the findings of the intrusive works. Testing could include Polychlorinated Biphenyls (PCBs) if any electrical transformers or substations are present inside or in the vicinity of the building.

Permission would need to be obtained from the Coal Authority, prior to undertaking any physical site investigation that may intersect coal seams/associated mine workings.

APPENDIX A

ENVIROCHECK REPORT

Intégral
Géotechnique

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
333222872_1_1

Customer Reference:
14301/LP

National Grid Reference:
270340, 210610

Slice:
A

Site Area (Ha):
1.78

Search Buffer (m):
1000

Site Details:

Heol Y Gors
Cwmgors
Ammanford
SA18 1RS

Client Details:

MR H Pritchard
Integral Geotechnique
Integral House
7 Beddau Way
Castlegate Business Park
Caerphilly
CF83 2AX

Intégral Géotechnique

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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.
In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Intégral Géotechnique

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3			3	6
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5	Yes			
Pollution Incidents to Controlled Waters	pg 5		2	1	4
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 6				1
River Quality Biology Sampling Points	pg 6				1
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 7				1 (*7)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 9	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 9		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 9		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 9	2	45	68	178

Intégral Géotechnique

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 43		1	5	13
Potentially Infilled Land (Water)	pg 44			1	3
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 45		1		
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 45		1		
Planning Hazardous Substance Consents	pg 45			1	
Planning Hazardous Substance Enforcements					

Intégral Géotechnique

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 46	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 46	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 50			10	12
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 54	Yes	n/a	n/a	n/a
Mining Instability	pg 54	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 54	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 54	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 54		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 54	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 55	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 55	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 56		5	10	9
Fuel Station Entries	pg 58				1
Points of Interest - Commercial Services	pg 58			7	4
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 59	2	2	2	5
Points of Interest - Public Infrastructure	pg 60				9
Points of Interest - Recreational and Environmental	pg 60			2	2
Gas Pipelines					
Underground Electrical Cables					

Intégral Géotechnique

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 62			1	4
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	0	1	270336 210606
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	243	1	270550 210350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	244	1	270550 210300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	247	1	270450 210200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	250	1	270600 210950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (W)	254	1	270050 210606
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	263	1	270650 210900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	276	1	270000 210606
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	278	1	270500 210200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	280	1	270050 210900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	289	1	270650 210950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	303	1	270300 211100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	310	1	270000 210650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (SE)	315	1	270550 210200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	317	1	270000 210700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (NW)	325	1	270000 210750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	326	1	269950 210450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A19SW (NE)	331	1	270700 210950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (NW)	340	1	270000 210850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	344	1	269950 210250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	350	1	270700 210500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	354	1	270600 210200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	374	1	269950 210750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (S)	380	1	270450 210050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	385	1	270600 210150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	387	1	269900 210606
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	387	1	270550 210100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	390	1	269850 210400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	396	1	270750 210550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	396	1	270650 210200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	401	1	270700 210300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	403	1	270336 210000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (S)	406	1	270250 210000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	406	1	270800 210606
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	410	1	270250 211200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (S)	413	1	270400 210000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	422	1	270100 211150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	424	1	270650 210150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	431	1	269900 210800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A9NW (SE)	440	1	270700 210200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	446	1	270500 210000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	462	1	270800 210400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	485	1	270000 211150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	492	1	270900 210650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (SE)	497	1	270600 210000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	500	1	270850 210500
1	**Discharge Consents** Operator: Jones R & M Property Type: Domestic Property (Single) Location: Llwyn Hen Farm Heol Y Gors Cwmgors Authority: Natural Resources Wales Catchment Area: Not Given Reference: Bm0041301 Permit Version: 1 Effective Date: 8th October 1984 Issued Date: 8th October 1984 Revocation Date: 31st October 1996 Discharge Type: Unspecified Discharge Environment: Land/Soakaway Receiving Water: Underground Strata **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	354	2	270600 210200
2	**Discharge Consents** Operator: Rigden G J Property Type: Undefined Or Other Location: Cwmgors Workshop Park Howard Indust, Workshop Park Howard Industrial, Park Howard Industrial Estate Authority: Natural Resources Wales Catchment Area: River Loughor Reference: Bp0022401 Permit Version: 1 Effective Date: 12th August 1986 Issued Date: 12th August 1986 Revocation Date: 26th July 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Underground Strata **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A18SW (N)	357	2	270270 211150
3	**Discharge Consents** Operator: British Coal Opencast Property Type: Undefined Or Other Location: Cwmgors Opencast Site Point B (Aban, Point B (Abandoned) Authority: Natural Resources Wales Catchment Area: River Loughor Reference: Bc0010501 Permit Version: 1 Effective Date: 10th March 1969 Issued Date: 10th March 1969 Revocation Date: 19th October 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Trib. Of Garnant Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A18SW (N)	470	2	270200 211250
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso At Gcg - Rear Of 40 Ger Yr Afon, R/O 40 Ger Yr Afon, Gwaun Cae Gurwen, Ammanford, Sa18 1hn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0293701 Permit Version: Not Supplied Effective Date: 29th August 2019 Issued Date: 29th August 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Hir **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A18NE (N)	635	2	270376 211434

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso 24 Rear Garden - 40 Ger Yr Afon, Cso 24 Rear Garden Of 40 Ger Yr, Gwaun Cae Gurwen, Carmarthenshire Authority: Natural Resources Wales Catchment Area: GARNANT - HEADWATERS TO CONFLUENCE WITH AMAN Reference: Bp0293701 Permit Version: 1 Effective Date: 19th October 2001 Issued Date: 19th October 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Hir **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A18NE (N)	639	2	270374 211438
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso 24 Rear Garden - 40 Ger Yr Afon, Cso 24 Rear Garden Of 40 Ger Yr, Gwaun Cae Gurwen, Carmarthenshire Authority: Natural Resources Wales Catchment Area: GARNANT - HEADWATERS TO CONFLUENCE WITH AMAN Reference: Bp0293701 Permit Version: 1 Effective Date: 19th October 2001 Issued Date: 19th October 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Hir **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A18NE (N)	639	2	270374 211438
5	**Discharge Consents** Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Gwaun Cae Gurwen Disposal Site, Tairgwaith Gwaun Cae Gurwen, Ammanford Authority: Natural Resources Wales Catchment Area: River Loughor Reference: Bp0230602 Permit Version: 1 Effective Date: 10th June 1994 Issued Date: 10th June 1994 Revocation Date: 20th August 1998 Discharge Type: Minewater Discharge Environment: Not Supplied Receiving Water: Trib Of The Nant Hir **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	688	2	271030 211090
6	**Discharge Consents** Operator: British Coal Corporation Property Type: Coal Extraction, Surface Location: Abernant Colliery Air Shaft (A Authority: Natural Resources Wales Catchment Area: River Loughor Reference: Bd0026501 Permit Version: 1 Effective Date: 9th May 1966 Issued Date: 9th May 1966 Revocation Date: 5th March 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Unknown **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	704	2	269700 210000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: British Coal Opencast Property Type: Undefined Or Other Location: Cwmgors Opencast Site Point A (Aban, Point A (Abandoned) Authority: Natural Resources Wales Catchment Area: River Loughor Reference: Bc0010401 Permit Version: 1 Effective Date: 10th March 1969 Issued Date: 10th March 1969 Revocation Date: 19th October 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Garnant Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	910	2	269700 211450
	Nearest Surface Water Feature	A13NE (NE)	0	-	270365 210672
8	**Pollution Incidents to Controlled Waters** Property Type: Abandoned mine Location: Peter Cook Frozen Foods, CWMGORS Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Deliberate Act Incident Date: 24th June 1991 Incident Reference: 934 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (W)	105	3	270200 210600
9	**Pollution Incidents to Controlled Waters** Property Type: Abandoned mine Location: Cwm Gorse Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Inadequate Design/Capacity Incident Date: 26th April 1995 Incident Reference: 23839 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	110	3	270400 210900
10	**Pollution Incidents to Controlled Waters** Property Type: Sheep Dip Location: Footpath, Cwmgors Industrial Estate, Ponyclub Over Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Inadequate Design/Capacity Incident Date: 3rd May 1995 Incident Reference: 23963 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	342	3	270001 210201
11	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 22nd February 1996 Incident Reference: 27413 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	609	3	270450 211400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Passes Lower Coelbren Road Authority: Environment Agency, Welsh Region Pollutant: Rubble/Litter Or Solids Note: Not Supplied Incident Date: 27th August 1996 Incident Reference: 29737 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	703	3	270400 211500
13	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Upper Colbren Road, Gwaun Cae Gurwen Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Tributary Of Garnant; Overflow Incident Date: 10th December 1997 Incident Reference: 34678 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A23SW (N)	851	3	270300 211650
14	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 5th August 1996 Incident Reference: 30046 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A23SE (N)	902	3	270400 211700
	River Quality Name: Garnant GQA Grade: River Quality B Reach: Conf Amman - Conf Nant Hir Estimated Distance (km): 2.9 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A18NW (N)	533	3	270186 211311
15	**River Quality Biology Sampling Points** Name: Garnant Reach: Confluence Amman To Confluence Nant Hir Estimated Distance: 2.90 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 1995 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2000 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2002 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2003 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2008 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2009 GQA Grade: River Quality Biology GQA Grade A - Very Good	A18NW (N)	602	3	270300 211400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Water Abstractions** Operator: Mr E Doubtfire Licence Number: 22/59/2/0107 Permit Version: 100 Location: U/N Springs Feeding The Garnant Gwaun Cae Gurwen W Glam Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: U/N Springs Feeding The Garnant Gwaun Cae Gurwen Wglam Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th January 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NE (E)	862	3	271270 210670
	Water Abstractions Operator: Mr & Mrs I & K Manuel Licence Number: 22/59/2/0111 Permit Version: 101 Location: Inland Water Unnamed Springs Feeding The Garnant Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Inland Water Unnamed Springs Garnant Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20SW (NE)	1035	3	271400 211100
	Water Abstractions Operator: Mr F Stevens Licence Number: 22/59/2/0106 Permit Version: 100 Location: Springs Feeding The Garnant Gwaun-Cae Gurwen Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Springs Feeding The Garnant Gwaun-Cae Gurwen West Glam Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th January 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	1118	3	271530 210860
	Water Abstractions Operator: Celtic Energy Ltd Licence Number: 22/59/2/0083 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Extractive: General Washing/Process Washing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 818 Yearly Rate (m3): 250000 Details: Nant Hir At Tai'R Gwaith Gwaun-Cae-Gurwen Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24SE (NE)	1260	3	271060 211865

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Celtic Energy Ltd Licence Number: 22/59/2/0083 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Extractive: General Washing/Process Washing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 818 Yearly Rate (m3): 250000 Details: Unnamed Trib Nant Hir At Tai'R Gwaith;Gwaun-Cae-Gurwen Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24SE (NE)	1274	3	271045 211890
	Water Abstractions Operator: Mr R White Licence Number: 22/59/1/0028 Permit Version: 100 Location: Spring In Field Tyn Y Coedcae Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spring In Field Tyn Y Coedcae Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd June 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3SE (S)	1391	3	270630 209050
	Water Abstractions Operator: Mrs J A Godwin Licence Number: 22/59/1/0028 Permit Version: 101 Location: Spring In Field Os No. 6600 S E Of Tyn Y Coedcae Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd May 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1432	3	270680 209020
	Water Abstractions Operator: Mr D Kempster Licence Number: 22/59/1/0031 Permit Version: 100 Location: Spring In Enc. 1268 At Nant Y Gasseg Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spring In Enc. 1268 At Nant Y Gasseg Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1587	3	270820 208900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NW (N)	0	2	270336 210606
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (N)	0	2	270336 210606
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NW (N)	0	2	270336 210606
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	25	2	270352 210824
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	28	2	270246 210606
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	29	2	270238 210626
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (N)	31	2	270354 210830
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NW (N)	0	4	270341 210684
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (NE)	0	4	270370 210659
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (S)	10	4	270321 210397

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (S)	12	4	270305 210392
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (S)	12	4	270310 210391
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (S)	15	4	270323 210397
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (S)	15	4	270346 210410
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (S)	18	4	270302 210387
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NW (NW)	18	4	270301 210688
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NW (NW)	20	4	270299 210686
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 126.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NW (NW)	21	4	270298 210689
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 113.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (NE)	45	4	270407 210648

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 171.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (NE)	45	4	270407 210648
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 166.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (S)	62	4	270279 210343
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 95.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (S)	71	4	270390 210412
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 282.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A13NW (NW)	81	4	270219 210768
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (N)	105	4	270358 210904
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 295.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A13NW (W)	115	4	270196 210649
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 164.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A13SW (SW)	134	4	270131 210491
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (E)	151	4	270508 210596
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	158	4	270131 210491

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (SE)	166	4	270473 210366
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 181.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (E)	170	4	270560 210688
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (E)	170	4	270560 210688
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (E)	171	4	270528 210592
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (E)	171	4	270528 210592
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 176.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (SE)	172	4	270477 210359
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 156.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (SE)	172	4	270478 210360
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 178.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A13SW (SW)	176	4	270113 210337
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 162.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (E)	178	4	270536 210593

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 144.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A13SW (SW)	178	4	270111 210500
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	178	4	270111 210500
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (E)	189	4	270541 210539
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A13SW (SW)	203	4	270078 210360
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SW (N)	205	4	270271 210994
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A13SW (SW)	205	4	270077 210358
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 99.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A13SW (SW)	206	4	270076 210355
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A13SW (SW)	206	4	270076 210355
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SW (N)	207	4	270327 211007

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 175.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A18SW (N)	210	4	270252 210992
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 213.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (W)	211	4	270079 210508
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 186.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (W)	211	4	270079 210508
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 94.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SW (N)	216	4	270338 211016
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13NE (NE)	225	4	270642 210771
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 398.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (E)	236	4	270588 210529
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 137.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	246	4	270035 210354
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SW (SW)	246	4	270035 210354
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A8NW (SW)	266	4	270053 210259

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A8NW (SW)	268	4	270053 210256
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 229.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NE (SE)	278	4	270534 210220
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A12SE (SW)	294	4	269987 210351
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 123.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	296	4	270330 210108
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	296	4	270330 210108
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NE (SE)	304	4	270574 210252
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 181.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	306	4	270149 210126
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	313	4	270226 210096
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A8NW (SW)	315	4	270059 210176

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (SW)	315	4	270058 210176
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 317.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (SE)	315	4	270594 210264
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (SW)	317	4	270054 210178
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	318	4	270216 210093
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (SW)	318	4	270053 210178
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	323	4	270220 210087
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 83.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (E)	324	4	270680 210577
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A13SE (E)	324	4	270681 210580
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 155.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (SW)	325	4	270035 210186

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (SW)	325	4	270035 210186
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 216.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A8NW (SW)	327	4	270053 210165
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 64.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (SW)	331	4	269975 210267
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (SW)	331	4	269970 210276
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	351	4	269991 210200
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	351	4	269991 210200
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 154.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	357	4	269982 210203
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 208.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A12SE (W)	360	4	269905 210440
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 155.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	363	4	269984 210188

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (SW)	367	4	269921 210314
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SW (N)	385	4	270184 211153
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 103.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A18SW (N)	385	4	270184 211153
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	387	4	270334 210017
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 313.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	400	4	270192 210014
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	406	4	270303 209997
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (W)	420	4	269867 210497
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 123.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SE (NE)	432	4	270653 211143
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SE (NE)	433	4	270654 211143

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SE (NE)	438	4	270664 211143
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 83.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	438	4	270329 209965
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (W)	440	4	269848 210517
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (W)	443	4	269845 210515
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (W)	443	4	269845 210511
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 361.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NE (S)	446	4	270537 210016
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SW (NE)	452	4	270702 211131
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SW (NE)	452	4	270702 211131
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SW (NE)	459	4	270704 211138

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 168.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SW (NE)	461	4	270705 211141
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	467	4	269985 210040
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 131.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A7NE (SW)	470	4	269983 210036
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 102.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	470	4	269983 210036
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 210.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A18SW (N)	471	4	270182 211245
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 165.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SW (N)	471	4	270179 211244
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 153.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SW (NE)	479	4	270738 211135
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 177.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SW (NE)	479	4	270738 211135
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 53.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SE (N)	480	4	270412 211275

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SE (N)	480	4	270412 211275
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SE (S)	482	4	270346 209922
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 101.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SE (N)	482	4	270539 211248
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 83.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SE (N)	483	4	270539 211249
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 139.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SE (S)	485	4	270382 209924
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A7NE (SW)	488	4	269840 210186
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 99.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	488	4	269806 210264
126	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	490	4	270458 211278
127	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SW (S)	497	4	270205 209913

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
128	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	497	4	270484 211279
129	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 140.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NW (S)	498	4	270096 209941
130	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 150.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (SW)	499	4	269795 210269
131	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 171.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SE (SW)	499	4	269795 210269
132	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SW (S)	501	4	270183 209912
133	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SW (S)	501	4	270189 209912
134	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 134.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A8NW (SW)	510	4	270015 209967
135	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 235.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	510	4	269903 210056
136	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	511	4	270373 211310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 120.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18SE (NE)	530	4	270637 211264
138	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 538.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SW (S)	534	4	270110 209897
139	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 80.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	546	4	270364 211345
140	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SW (NE)	554	4	270876 211089
141	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 175.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SW (NE)	554	4	270878 211087
142	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	555	4	270749 210064
143	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	564	4	270537 211333
144	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 154.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SE (NW)	565	4	269916 211183
145	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 314.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SE (NW)	568	4	269869 211140

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	576	4	270786 210079
147	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 489.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (NW)	577	4	270029 211288
148	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 165.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A9NW (SE)	585	4	270803 210088
149	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	585	4	270803 210088
150	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A14SW (SE)	588	4	270890 210273
151	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	589	4	270840 210141
152	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	589	4	270812 210094
153	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A14SW (SE)	592	4	270895 210274
154	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 214.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8NE (SE)	592	4	270667 209929

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7SE (SW)	599	4	269929 209917
156	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	599	4	269901 209936
157	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 99.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	602	4	270546 211370
158	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A14SW (SE)	602	4	270933 210353
159	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	603	4	269878 209951
160	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 302.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A14SW (SE)	604	4	270935 210355
161	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 402.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A14SW (SE)	605	4	270909 210274
162	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 130.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	606	4	270539 211376
163	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	607	4	269872 209952

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 198.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Loughor Primacy: 1	A18NE (N)	607	4	270393 211405
165	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 131.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SE (S)	610	4	270539 209838
166	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 578.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SE (S)	616	4	270563 209842
167	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A7NE (SW)	623	4	269701 210164
168	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A7NE (SW)	623	4	269701 210166
169	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 101.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NW (SW)	623	4	269667 210235
170	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	624	4	270731 209942
171	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A7SE (SW)	625	4	269940 209878
172	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7SE (SW)	625	4	269940 209878

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
173	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SW (NE)	626	4	270879 211203
174	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	627	4	270370 211426
175	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A7SE (SW)	629	4	269938 209874
176	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7SE (SW)	629	4	269938 209874
177	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A12SW (SW)	629	4	269655 210307
178	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 101.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (N)	630	4	270228 211421
179	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Loughor Primacy: 1	A18NE (N)	631	4	270378 211430
180	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A18NW (N)	632	4	270239 211424
181	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NW (SW)	632	4	269667 210235

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
182	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SE (S)	635	4	270452 209784
183	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 173.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7SE (SW)	636	4	269906 209887
184	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 336.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NE (SW)	636	4	269720 210049
185	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 51.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A7SE (SW)	638	4	269966 209847
186	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	639	4	270795 209986
187	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	639	4	270798 209989
188	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	642	4	270771 209957
189	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	642	4	270771 209957
190	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	650	4	270778 209953

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
191	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (N)	652	4	270102 211408
192	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	652	4	270002 209813
193	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 96.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SW (NE)	653	4	270943 211167
194	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	657	4	270630 211404
195	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	657	4	270792 209956
196	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 255.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SW (S)	657	4	270051 209788
197	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 82.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NW (NE)	658	4	270731 211360
198	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NW (NE)	658	4	270754 211347
199	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (N)	659	4	270124 211423

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
200	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (N)	660	4	270142 211431
201	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (N)	660	4	270135 211428
202	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	663	4	270636 211407
203	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 137.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SE (NE)	664	4	271045 210995
204	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NW (NE)	667	4	270770 211347
205	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A7NW (SW)	668	4	269662 210142
206	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SE (S)	669	4	270482 209757
207	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SE (NE)	671	4	271039 211030
208	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NW (NE)	672	4	270780 211347

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
209	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A18NW (N)	676	4	270258 211471
210	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A18NW (N)	679	4	270273 211476
211	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A18NW (N)	693	4	270280 211490
212	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 69.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NW (SW)	695	4	269661 210081
213	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A18NW (N)	697	4	270285 211495
214	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A18NW (N)	697	4	270285 211495
215	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Tawe Primacy: 1	A7SE (SW)	702	4	269906 209809
216	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 22.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SE (S)	703	4	270564 209748
217	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A8SE (S)	706	4	270588 209754

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
218	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 20.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A7NW (SW)	707	4	269624 210130
219	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7SE (SW)	708	4	269802 209878
220	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 87.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NW (NE)	708	4	270793 211381
221	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NW (NE)	708	4	270794 211380
222	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 165.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	711	4	269657 211009
223	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Loughor Primacy: 1	A18NE (N)	724	4	270510 211506
224	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	724	4	270510 211506
225	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A7NW (SW)	727	4	269608 210118
226	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A7NW (SW)	728	4	269607 210117

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
227	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 2	A7NW (SW)	728	4	269607 210117
228	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NE (N)	729	4	270536 211505
229	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 103.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (S)	732	4	269982 209734
230	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	738	4	270974 210079
231	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A9NW (SE)	740	4	270966 210060
232	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NW (SW)	753	4	269595 210083
233	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: Underground Permanent: True Watercourse Name: Garnant Catchment Name: Tawe Primacy: 1	A7SE (SW)	771	4	269878 209744
234	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NW (SW)	773	4	269573 210083
235	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NW (SW)	773	4	269573 210084

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
236	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 527.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SE (S)	776	4	270510 209654
237	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 2	A7SE (SW)	777	4	269879 209736
238	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 82.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	778	4	269876 209737
239	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	778	4	269876 209737
240	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 59.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	779	4	269878 209735
241	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SW (S)	786	4	270048 209653
242	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Hir Catchment Name: Loughor Primacy: 1	A18NE (N)	795	4	270515 211578
243	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 177.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A18NW (N)	798	4	270279 211596
244	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (N)	798	4	270279 211596

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
245	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 270.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Loughor Primacy: 1	A18NE (N)	800	4	270522 211581
246	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (N)	811	4	270075 211568
247	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (N)	811	4	270075 211568
248	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (N)	815	4	270077 211572
249	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 79.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NW (S)	816	4	270307 209588
250	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 384.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 2	A3NW (S)	816	4	270305 209588
251	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A18NW (N)	817	4	270078 211574
252	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 524.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A17SW (NW)	823	4	269526 210949
253	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 103.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	825	4	269782 209744

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
254	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	833	4	269874 209675
255	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 107.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	833	4	269874 209675
256	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 464.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9SW (SE)	833	4	270805 209733
257	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 177.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NW (SW)	833	4	269509 210079
258	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 83.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NW (S)	858	4	270313 209545
259	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 102.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NW (S)	872	4	270249 209533
260	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 113.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NW (S)	876	4	270209 209532
261	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 128.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A23SW (N)	879	4	270153 211659
262	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A23SW (N)	879	4	270153 211659

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
263	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 251.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9SW (SE)	879	4	270793 209670
264	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NW (S)	885	4	270154 209528
265	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 135.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A23SW (N)	898	4	270240 211693
266	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Hopcyn Catchment Name: Tawe Primacy: 1	A3NW (S)	899	4	270339 209505
267	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 171.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hopcyn Catchment Name: Tawe Primacy: 1	A3NW (S)	899	4	270339 209505
268	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 103.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A2NE (S)	902	4	269964 209558
269	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hopcyn Catchment Name: Tawe Primacy: 1	A3NE (S)	902	4	270349 209502
270	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 122.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NE (S)	906	4	270466 209511
271	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NW (S)	908	4	270070 209521

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
272	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NW (S)	909	4	270090 209515
273	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NE (S)	909	4	270376 209497
274	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NW (NE)	909	4	270905 211548
275	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 128.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hopcyn Catchment Name: Tawe Primacy: 1	A3NE (S)	910	4	270375 209496
276	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NE (S)	912	4	270459 209503
277	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NW (S)	921	4	270082 209505
278	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NW (S)	921	4	270084 209504
279	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NW (S)	922	4	270077 209504
280	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 547.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NE (S)	925	4	270442 209487

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
281	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Loughor Primacy: 1	A24SW (N)	932	4	270703 211669
282	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A24SW (N)	932	4	270703 211669
283	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A2NE (SW)	933	4	269863 209568
284	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A24SW (N)	937	4	270708 211673
285	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 178.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A24SW (N)	937	4	270742 211660
286	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 22.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NW (SW)	943	4	269363 210167
287	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 190.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A7NW (SW)	943	4	269363 210167
288	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A2NE (SW)	946	4	269859 209556
289	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A2NE (SW)	946	4	269860 209555

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
290	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hopcyn Catchment Name: Tawe Primacy: 1	A3NW (S)	949	4	270176 209461
291	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 172.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hopcyn Catchment Name: Tawe Primacy: 1	A3NW (S)	954	4	270163 209458
292	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A24SW (NE)	957	4	270869 211625
293	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A23SE (N)	962	4	270352 211761
294	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SE (NE)	964	4	271246 211271
295	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 243.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NW (NE)	967	4	270909 211614
296	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A23SW (N)	967	4	270037 211720
297	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 308.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NW (NE)	967	4	270909 211614
298	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NE (NE)	967	4	271219 211319

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
299	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NE (NE)	968	4	271219 211322
300	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NE (NE)	969	4	271219 211325
301	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 180.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Garnant Catchment Name: Loughor Primacy: 1	A23SW (N)	974	4	270048 211730
302	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A2NE (S)	977	4	270000 209467
303	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Hir Catchment Name: Loughor Primacy: 1	A24SW (N)	982	4	270684 211727
304	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NE (NE)	982	4	271251 211298
305	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A3NW (S)	983	4	270146 209431
306	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 121.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hir Catchment Name: Loughor Primacy: 1	A24SW (N)	987	4	270688 211731
307	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NE (NE)	992	4	271208 211380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
308	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 154.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19NE (NE)	996	4	271209 211383
309	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Loughor Primacy: 1	A19SE (NE)	1000	4	271302 211243

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Neath Port Talbot County Borough Council - Has supplied landfill data		0	5	270336 210606
	Local Authority Landfill Coverage Name: Carmarthenshire County Council - Has no landfill data to supply		81	6	270198 210659
310	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13NE (NE)	172	-	270521 210918
311	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A8NE (SE)	266	-	270531 210255
312	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13SE (E)	327	-	270676 210489
313	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18SE (NE)	372	-	270593 211109
314	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14NW (NE)	391	-	270793 210882
315	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NE (S)	465	-	270399 209947
316	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A12NE (NW)	502	-	269835 210850
317	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A19SW (NE)	552	-	270874 211090
318	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A7NE (SW)	678	-	269733 209999
319	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14NE (E)	714	-	271128 210739
320	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A17SW (NW)	736	-	269661 211095
321	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A19SE (NE)	776	-	271137 211067
322	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A23SW (N)	832	-	270252 211627
323	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A7SW (SW)	861	-	269646 209817
324	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A17SW (NW)	914	-	269535 211240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
325	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A24SW (N)	923	-	270740 211647
326	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A23SW (N)	926	-	270071 211687
327	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A17NW (NW)	983	-	269496 211312
328	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A20SW (NE)	995	-	271362 211088
329	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A14SW (SE)	392	-	270709 210346
330	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A18NE (N)	521	-	270535 211290
331	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A18NE (N)	607	-	270546 211375
332	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A24SW (NE)	967	-	270835 211654

Hazardous Substances

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
333	**Control of Major Accident Hazards Sites (COMAH)** Name: R J Jones LPG Compound Location: Heol - Y - Gors, Cwmgors, GLANAMAN, Dyfed Reference: Not Supplied Type: Lower Tier **Status: Record Ceased To Be Supplied Under COMAH Regulations** Positional Accuracy: Manually positioned to the road within the address or location	A13NE (E)	56	7	270416 210626
334	**Notification of Installations Handling Hazardous Substances (NIHHS)** Name: R J Jones Location: LPG Compound, Heol-Y-Gors, Cwmgors Near, GLANAMAN, Dyfed **Status: Not Active** Positional Accuracy: Manually positioned to the road within the address or location	A13NE (E)	57	7	270416 210621
335	**Planning Hazardous Substance Consents** Name: Rf Jones Gas Location: Cwmgors Industrial Estate, Cwmgors, Ammanford, SA18 Authority: Neath Port Talbot County Borough Council, Planning Department Application Ref: Not Supplied Hazardous Substance: Unknown at time of report Maximum Quantity: 0 Application date: Not Supplied **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	485	8	270371 211284

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13NW (N)	0	1	270336 210606
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	1	270394 210535
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NW (N)	0	1	270336 210606
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	18	1	270224 210624
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (E)	191	1	270550 210542
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	262	1	270613 210372
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	267	1	270009 210436

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NE (W)	288	1	270000 210606
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (SE)	324	1	270674 210366
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (W)	337	1	269951 210500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (SW)	354	1	270006 210176
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SE (SW)	357	1	269918 210418
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 45 - 60 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (SW)	415	1	269834 210380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A19SW (NE)	463	1	270770 211080
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14SW (SE)	465	1	270800 210304
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 45 - 60 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (W)	520	1	269765 210500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (SW)	646	1	269672 210177
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	655	1	269888 209877
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	803	1	269538 210893

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12NW (W)	831	1	269500 210833
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	839	1	269500 210886
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A23SW (N)	911	1	270107 211681
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A23SW (N)	911	1	270292 211709
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A22SE (N)	940	1	269963 211663
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A23SW (N)	948	1	270140 211727

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A17NW (NW)	952	1	269667 211477
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A17NE (NW)	962	1	269676 211500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	966	1	269391 211000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NE (S)	988	1	270669 209483
336	**BGS Recorded Mineral Sites** Site Name: Cwmgorse Slant Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261703 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	256	1	270574 210983
336	**BGS Recorded Mineral Sites** Site Name: New Cwmgorse Colliery Location: Cwmgors, Pontardawe, Neath Port Talbot Source: British Geological Survey, National Geoscience Information Service Reference: 28912 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Coal Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	295	1	270588 211021

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
337	**BGS Recorded Mineral Sites** Site Name: Pant-Glas Location: Cwmgors, Gwaun-Cae-Gurwen, Ammanford, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151400 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	257	1	270529 210269
338	**BGS Recorded Mineral Sites** Site Name: Llwynrhidau Level Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261700 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	264	1	270535 211017
339	**BGS Recorded Mineral Sites** Site Name: Llwyn-Rhidau Colliery Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261701 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	308	1	270642 210990
339	**BGS Recorded Mineral Sites** Site Name: Llwyn-Rhidau Colliery Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261702 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	317	1	270640 211006
340	**BGS Recorded Mineral Sites** Site Name: Pant-Glas Location: Cwmgors, Gwaun-Cae-Gurwen, Ammanford, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151399 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Upper Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13SE (E)	327	1	270678 210509
341	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Bryn Location: Cwmgors, Gwaun-Cae-Gurwen, Ammanford, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151398 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	393	1	270794 210888

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
342	**BGS Recorded Mineral Sites** Site Name: Cwmgorse Occs Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261698 Type: Opencast **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	447	1	270000 211095
343	**BGS Recorded Mineral Sites** Site Name: Tyddyn-Cwm-Y-Gors Location: Cwmgors, Pontardawe, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 28913 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NE (S)	452	1	270365 209955
344	**BGS Recorded Mineral Sites** Site Name: Gelli-Fawr Coal Pit Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 102087 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	514	1	269823 210847
345	**BGS Recorded Mineral Sites** Site Name: Cwmgorse Brickworks Location: Cwmgors, Pontardawe, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 28910 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	539	1	270880 211055
346	**BGS Recorded Mineral Sites** Site Name: Mountain Level Location: Cwmgors, Pontardawe, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 28911 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Coal Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	633	1	270983 211062
347	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Bryn Location: Gwaun-Cae-Gurwen, Ammanford, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151369 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	708	1	271122 210754

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
348	**BGS Recorded Mineral Sites** Site Name: Cwmgorse Occs Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261697 Type: Opencast **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	728	1	269695 211145
349	**BGS Recorded Mineral Sites** Site Name: Gors-Lydan Coal Pit Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 102086 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	750	1	269646 211093
350	**BGS Recorded Mineral Sites** Site Name: Pont Y Groes Location: Glanaman, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 102214 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A23SW (N)	823	1	270257 211619
351	**BGS Recorded Mineral Sites** Site Name: Nant-Rickett Quarry Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 100805 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	861	1	269605 209865
352	**BGS Recorded Mineral Sites** Site Name: Nant-Rickett Quarry Location: Cwmgors, Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261687 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	872	1	269630 209819
353	**BGS Recorded Mineral Sites** Site Name: Llwyn-Celyn Coal Level Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 102090 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Lower Welsh Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	923	1	269502 211196

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
354	**BGS Recorded Mineral Sites** Site Name: Ty-Isaf Location: Gwaun-Cae-Gurwen, Ammanford, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151353 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A23SW (N)	926	1	270079 211689
355	**BGS Recorded Mineral Sites** Site Name: Llwyn-Celyn Coal Pit Location: Bryn-Cethen, Garnant, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 102085 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	992	1	269486 211312
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (N)	0	9	270336 210606
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (N)	0	-	270336 210606
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	270394 210535
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	270224 210624
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	270224 210624
	Potential for Compressible Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	93	1	270177 210633
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	98	1	270484 210545
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	103	1	270255 210304

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	178	1	270507 210376
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	270224 210624
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	93	1	270177 210633
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	191	1	270550 210542
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A18SW (N)	229	1	270224 210999
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
356	**Contemporary Trade Directory Entries** Name: Mike Thomas Preservation Location: 148, Heol y Gors, Cwmgors, Ammanford, Dyfed, SA18 1RR Classification: Damp & Dry Rot Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	65	-	270428 210654
357	**Contemporary Trade Directory Entries** Name: Lyn Walters Location: 1, Abernant Road, Cwmgors, Ammanford, Dyfed, SA18 1RB Classification: Engineering Machine Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (E)	118	-	270479 210640
357	**Contemporary Trade Directory Entries** Name: L Walters Location: 1, Abernant Road, Cwmgors, Ammanford, Dyfed, SA18 1RB Classification: Plant & Machinery Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (E)	124	-	270488 210666
358	**Contemporary Trade Directory Entries** Name: Caravanfix Location: 90, Heol y Gors, Cwmgors, Ammanford, Dyfed, SA18 1PY Classification: Caravans - Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	146	-	270472 210916
359	**Contemporary Trade Directory Entries** Name: Caravan Repairers Location: Brynteg, Gors Lane, Cwmgors, Ammanford, Dyfed, SA18 1PU Classification: Caravans - Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	242	-	270399 211037
360	**Contemporary Trade Directory Entries** Name: The Ironing Lady Location: 89, Heol y Gors, Cwmgors, Ammanford, Dyfed, SA18 1PY Classification: Ironing & Home Laundry Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	269	-	270453 211051
361	**Contemporary Trade Directory Entries** Name: Doublescale Ltd Location: 73, Heol y Gors, Cwmgors, Ammanford, Dyfed, SA18 1PT Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	323	-	270457 211106
362	**Contemporary Trade Directory Entries** Name: Amman Valley Welders Location: Park Howard Road, Cwmgors, Ammanford, SA18 1PA Classification: Coating Specialists **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	375	-	270330 211174
363	**Contemporary Trade Directory Entries** Name: Ama Services Location: 44, Heol y Gors, Cwmgors, Ammanford, Dyfed, SA18 1PT Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	395	-	270502 211168
364	**Contemporary Trade Directory Entries** Name: Big Best Deals Clearance Bankruptcy Liquidation Buyers Location: Unit 7, Cwmgors Workshops, Park Howard Road, Cwmgors, Ammanford, SA18 1PA Classification: Catering Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NW (N)	490	-	270270 211285
364	**Contemporary Trade Directory Entries** Name: A M A Services Location: Unit 2, Cwmgors Workshops, Park Howard Road, Cwmgors, Ammanford, SA18 1PA Classification: Car Body Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NW (N)	490	-	270270 211285

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
364	**Contemporary Trade Directory Entries** Name: C A M Sport Location: Unit 2, Cwmgors Workshops, Park Howard Road, Cwmgors, Ammanford, Dyfed, SA18 1PA Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NW (N)	490	-	270270 211285
364	**Contemporary Trade Directory Entries** Name: Doublescale Ltd Location: Unit 1, Cwmgors Workshops, Park Howard Road, Cwmgors, Ammanford, Dyfed, SA18 1PA Classification: Metal Products - Fabricated **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NW (N)	490	-	270270 211285
364	**Contemporary Trade Directory Entries** Name: Cam Sport Ltd Location: Unit 11, Cwmgors Workshops, Park Howard Road, Cwmgors, Ammanford, SA18 1PA Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NW (N)	490	-	270270 211285
364	**Contemporary Trade Directory Entries** Name: Adzorb Oil Location: Cwmgors, Ammanford, Dyfed, SA18 1PE Classification: Chemical Recycling & Disposal Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A18NW (N)	491	-	270269 211286
365	**Contemporary Trade Directory Entries** Name: Zodiac Windows Location: 301, Heol y Gors, Cwmgors, Ammanford, SA18 1RW Classification: Window Frame Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	522	-	270322 209881
366	**Contemporary Trade Directory Entries** Name: Reslec Location: Factory Premises,Church La, Cwmgors, Ammanford, Dyfed, SA18 1PF Classification: Control Panel Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A18NE (N)	559	-	270424 211354
367	**Contemporary Trade Directory Entries** Name: Flogas Location: Heol y Gors, Cwmgors, Ammanford, Dyfed, SA18 1RW Classification: Gas Suppliers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	620	-	270353 209785
367	**Contemporary Trade Directory Entries** Name: Cool Creameries Location: 290a, Heol y Gors, Cwmgors, Ammanford, SA18 1RW Classification: Ice Cream Manufacturers & Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	647	-	270384 209761
368	**Contemporary Trade Directory Entries** Name: Gate Shop Garage Location: 98, Heol Cae Gurwen, Gwaun Cae Gurwen, Ammanford, SA18 1PD Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	802	-	270440 211596
369	**Contemporary Trade Directory Entries** Name: Ronin Designs Ltd Location: 93, Heol Cae Gurwen, Gwaun Cae Gurwen, Ammanford, Dyfed, SA18 1PB Classification: Jewellery Manufacturers & Repairers **Status: Active** Positional Accuracy: Automatically positioned to the address	A23SE (N)	964	-	270355 211763
370	**Contemporary Trade Directory Entries** Name: D J B Transport Location: 47, Upper Colbren Road, Gwaun Cae Gurwen, Ammanford, Dyfed, SA18 1HR Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A23SE (N)	969	-	270660 211720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
371	**Contemporary Trade Directory Entries** Name: Star Multifuels Location: Old Star, Pontardawe Road, Pontardawe, SWANSEA, SA8 4SX Classification: Fuel Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A3NE (S)	992	-	270359 209412
371	**Contemporary Trade Directory Entries** Name: M J W Pallet Services Location: Pontardawe Rd, Rhydyfro/Pontardawe, Swansea, West Glamorgan, SA8 4SX Classification: Pallets, Crates & Packing Cases **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A3NW (S)	992	-	270338 209412
372	**Fuel Station Entries** Name: Aman Valley Tyres Location: Heol Cae Gurwen , Gwaun-Cae-Gurwen , Ammanford, Neath Port Talbot, SA18 1HG Brand: Obsolete Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Manually positioned to the road within the address or location	A18NE (N)	767	-	270417 211563
373	**Points of Interest - Commercial Services** Name: Ama Services Location: 44 Heol y Gors, Cwmgors, Ammanford, SA18 1PT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (N)	395	10	270502 211168
374	**Points of Interest - Commercial Services** Name: Cam Sport Ltd Location: Unit 11 Cwmgors Workshops, Park Howard Road, Cwmgors, SA18 1PA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SW (N)	457	10	270277 211253
374	**Points of Interest - Commercial Services** Name: A M A Services Location: Unit 2 Cwmgors Workshops, Park Howard Road, Cwmgors, SA18 1PA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SW (N)	472	10	270276 211268
374	**Points of Interest - Commercial Services** Name: C A M Sport Location: Unit 2 Cwmgors Workshops, Park Howard Road, Cwmgors, Ammanford, SA18 1PA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NW (N)	490	10	270270 211285
374	**Points of Interest - Commercial Services** Name: Doublescale Location: Unit 1 Cwmgors Workshops, Park Howard Road, Cwmgors, Ammanford, SA18 1PA Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A18NW (N)	490	10	270270 211285
374	**Points of Interest - Commercial Services** Name: C A M Sport Location: Unit 11 Cwmgors Workshops, Park Howard Road, Cwmgors, Ammanford, SA18 1PA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NW (N)	490	10	270270 211285
374	**Points of Interest - Commercial Services** Name: Adzorb Oil Location: Unit 7 Cwmgors Workshops, Park Howard Road, Cwmgors, Ammanford, SA18 1PA Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A18NW (N)	490	10	270270 211285
375	**Points of Interest - Commercial Services** Name: Doublescale Location: Beili Glas Uchaf, Gwaun Cae Gurwen, Ammanford, SA18 1PR Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A19SW (NE)	622	10	270920 211145

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
376	**Points of Interest - Commercial Services** Name: Amman Valley Service Centre Ltd Location: 147 Heol Cae Gurwen, Gwaun Cae Gurwen, SA18 1PD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	717	10	270391 211515
377	**Points of Interest - Commercial Services** Name: Gate Shop Garage Location: 98 Heol Cae Gurwen, Gwaun Cae Gurwen, Ammanford, SA18 1PD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	800	10	270430 211595
378	**Points of Interest - Commercial Services** Name: D J Bowen Cymru Ltd Location: 47 Upper Colbren Road, Gwaun Cae Gurwen, SA18 1HR Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A23SE (N)	973	10	270657 211725
379	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	0	10	270326 210607
379	**Points of Interest - Manufacturing and Production** Name: Works Location: SA18 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NW (SW)	0	10	270335 210605
380	**Points of Interest - Manufacturing and Production** Name: E & C Abrahamson Location: Bryngoleu, Llwynhen Road, Cwmgors, Ammanford, SA18 1RG Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A13SE (SE)	221	10	270571 210506
380	**Points of Interest - Manufacturing and Production** Name: E & C Abrahamson Location: Bryngoleu, Llwynhen Road, Cwmgors, Ammanford, SA18 1RG Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A13SE (E)	222	10	270573 210508
381	**Points of Interest - Manufacturing and Production** Name: Cwmgors Industrial Estate Location: SA18 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	448	10	270324 211247
382	**Points of Interest - Manufacturing and Production** Name: Cwmgors Workshops Location: SA18 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	497	10	270237 211287
383	**Points of Interest - Manufacturing and Production** Name: Shaft Location: SA18 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12NE (NW)	513	10	269824 210848
383	**Points of Interest - Manufacturing and Production** Name: Shaft Location: SA18 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	525	10	269812 210845
384	**Points of Interest - Manufacturing and Production** Name: Tank Location: SA18 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	610	10	269672 210318

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
385	**Points of Interest - Manufacturing and Production** Name: R B Woolston Location: Beili Glas Uchaf, Gwaun Cae Gurwen, Ammanford, SA18 1PR Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A19SW (NE)	622	10	270920 211145
386	**Points of Interest - Manufacturing and Production** Name: Air Shaft Location: SA18 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	712	10	269720 209960
387	**Points of Interest - Public Infrastructure** Name: Spoil Heap Location: SA18 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	559	10	270245 209847
388	**Points of Interest - Public Infrastructure** Name: Sluice Location: SA18 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	698	10	269636 210127
388	**Points of Interest - Public Infrastructure** Name: Sluice Location: SA18 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	701	10	269633 210126
388	**Points of Interest - Public Infrastructure** Name: Heap (Dis) Location: SA18 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	774	10	269581 210064
389	**Points of Interest - Public Infrastructure** Name: Spoil Heap Location: SA18 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	792	10	269571 210044
390	**Points of Interest - Public Infrastructure** Name: Spoil Heaps Location: SA18 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	832	10	269644 209863
390	**Points of Interest - Public Infrastructure** Name: Heap (Dis) Location: SA18 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	837	10	269638 209862
390	**Points of Interest - Public Infrastructure** Name: Heap (Dis) Location: SA18 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	880	10	269598 209844
391	**Points of Interest - Public Infrastructure** Name: Cemetery Location: SA18 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A19NE (NE)	879	10	271130 211293
392	**Points of Interest - Recreational and Environmental** Name: Playground Location: Nr Abernant Road, SA18 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18SE (NE)	290	10	270652 210949

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
393	**Points of Interest - Recreational and Environmental** Name: Play Area Location: SA18 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	396	10	270612 211126
394	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Heol-Cae-Gurwen), SA18 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18NE (N)	697	10	270407 211494
394	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	706	10	270394 211504

Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
395	**Ancient Woodland** Name: Not Supplied Reference: 17204 Area(m²): 3552.09 Type: Ancient and Semi-Natural Woodland	A12SE (W)	360	2	269926 210495
396	**Ancient Woodland** Name: Not Supplied Reference: 9589 Area(m²): 11166.03 Type: Ancient and Semi-Natural Woodland	A12NW (W)	676	2	269640 210735
397	**Ancient Woodland** Name: Not Supplied Reference: 16901 Area(m²): 3635.35 Type: Ancient and Semi-Natural Woodland	A9SW (SE)	687	2	270763 209887
398	**Ancient Woodland** Name: Not Supplied Reference: 17206 Area(m²): 8643.75 Type: Ancient and Semi-Natural Woodland	A18NW (N)	825	2	270188 211611
399	**Ancient Woodland** Name: Not Supplied Reference: 9588 Area(m²): 6342.91 Type: Ancient and Semi-Natural Woodland	A12NW (W)	850	2	269480 210825

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	November 2023	Annually
Neath Port Talbot County Borough Council - Environmental Health Department	October 2017	Annual Rolling Update
Powys County Council - Public Protection Department	October 2017	Annual Rolling Update
Carmarthenshire County Council - Environmental Health Department	September 2017	Annual Rolling Update
City and County of Swansea - Environmental Health Department	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	December 2023	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Natural Resources Wales	December 2023	Quarterly
Environment Agency - Welsh Region	January 2021	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Swansea Bay Port Health Authority	April 2014	Variable
City and County of Swansea - Environmental Health Department	December 2020	Variable
Neath Port Talbot County Borough Council - Environmental Health Department	March 2014	Variable
Carmarthenshire County Council - Environmental Health Department	March 2015	Variable
Powys County Council - Public Protection Department	May 2014	Variable
Local Authority Pollution Prevention and Controls		
Swansea Bay Port Health Authority	April 2014	Annually
City and County of Swansea - Environmental Health Department	December 2020	Annual Rolling Update
Neath Port Talbot County Borough Council - Environmental Health Department	March 2014	Annual Rolling Update
Carmarthenshire County Council - Environmental Health Department	March 2015	Annual Rolling Update
Powys County Council - Public Protection Department	May 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Swansea Bay Port Health Authority	April 2014	Variable
City and County of Swansea - Environmental Health Department	June 2014	Variable
Carmarthenshire County Council - Environmental Health Department	March 2015	Variable
Neath Port Talbot County Borough Council - Environmental Health Department	March 2015	Variable
Powys County Council - Public Protection Department	May 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	November 2023	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	April 2012	

Data Currency

Agency & Hydrological	Version	Update Cycle
Substantiated Pollution Incident Register		
Natural Resources Wales	August 2023	Quarterly
Environment Agency Wales - South East Area	January 2021	Quarterly
Environment Agency Wales - South West Area	January 2021	Quarterly
Water Abstractions		
Natural Resources Wales	June 2023	Quarterly
Environment Agency - Welsh Region	October 2023	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences		
Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas		
Natural Resources Wales	August 2019	Quarterly
Flood Defences		
Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines		
Ordnance Survey	October 2023	Quarterly
Surface Water 1 in 30 year Flood Extent		
Natural Resources Wales	May 2018	Annually
Surface Water 1 in 100 year Flood Extent		
Natural Resources Wales	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent		
Natural Resources Wales	May 2018	Annually
Surface Water Suitability		
Natural Resources Wales	February 2016	Annually
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	As notified

Data Currency

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency Wales - South East Area	January 2023	Quarterly
Environment Agency Wales - South West Area	January 2023	Quarterly
Natural Resources Wales	October 2021	Quarterly
Licensed Waste Management Facilities (Locations)		
Natural Resources Wales	December 2023	Quarterly
Environment Agency Wales - South East Area	July 2021	Quarterly
Environment Agency Wales - South West Area	July 2021	Quarterly
Local Authority Landfill Coverage		
Carmarthenshire County Council	February 2003	Not Applicable
City and County of Swansea - Environmental Health Department	February 2003	Not Applicable
Neath Port Talbot County Borough Council - Environmental Health Department	February 2003	Not Applicable
Powys County Council	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Carmarthenshire County Council	October 2018	
City and County of Swansea - Environmental Health Department	October 2018	
Neath Port Talbot County Borough Council - Environmental Health Department	October 2018	
Powys County Council	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency Wales - South East Area	March 2006	Not Applicable
Environment Agency Wales - South West Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - South East Area	April 2018	
Environment Agency Wales - South West Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - South East Area	June 2015	
Environment Agency Wales - South West Area	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Brecon Beacons National Park	August 2008	Annual Rolling Update
Carmarthenshire County Council - Area Planning Office (East Area)	February 2016	Variable
Carmarthenshire County Council - Area Planning Office (South Area)	February 2016	Variable
Carmarthenshire County Council - Environment Department (West Area)	February 2016	Variable
City and County of Swansea - Planning Department	June 2023	Variable
Powys County Council - Planning Department	May 2023	Variable
Neath Port Talbot County Borough Council - Planning Department	October 2015	Variable
Planning Hazardous Substance Consents		
Brecon Beacons National Park	August 2008	Annual Rolling Update
Carmarthenshire County Council - Area Planning Office (East Area)	February 2016	Variable
Carmarthenshire County Council - Area Planning Office (South Area)	February 2016	Variable
Carmarthenshire County Council - Environment Department (West Area)	February 2016	Variable
Powys County Council - Planning Department	February 2016	Variable
City and County of Swansea - Planning Department	January 2016	Variable
Neath Port Talbot County Borough Council - Planning Department	October 2015	Variable

Data Currency

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	June 2023	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Data Currency

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	December 2023	Quarterly
Points of Interest - Education and Health PointX	December 2023	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2023	Quarterly
Points of Interest - Public Infrastructure PointX	December 2023	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2023	Quarterly
Underground Electrical Cables National Grid	February 2023	Bi-Annually

Data Currency

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	October 2023	Bi-Annually
Areas of Adopted Green Belt		
Brecon Beacons National Park	August 2023	Quarterly
Carmarthenshire County Council	August 2023	Quarterly
City and County of Swansea	August 2023	Quarterly
Neath Port Talbot County Borough Council - Planning Services	August 2023	Quarterly
Powys County Council	August 2023	Quarterly
Areas of Unadopted Green Belt		
Brecon Beacons National Park	August 2023	Quarterly
Carmarthenshire County Council	August 2023	Quarterly
City and County of Swansea	August 2023	Quarterly
Neath Port Talbot County Borough Council - Planning Services	August 2023	Quarterly
Powys County Council	August 2023	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	November 2023	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
Carmarthenshire County Council	August 2023	Bi-Annually
City and County of Swansea	August 2023	Bi-Annually
Neath Port Talbot County Borough Council	August 2023	Bi-Annually
Powys County Council	August 2023	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	October 2023	Bi-Annually
National Nature Reserves		
Natural Resources Wales	September 2023	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	March 2023	Bi-Annually
Ramsar Sites		
Natural Resources Wales	October 2023	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	October 2023	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	October 2023	Bi-Annually
Special Protection Areas		
Natural Resources Wales	October 2023	Bi-Annually

Data Suppliers

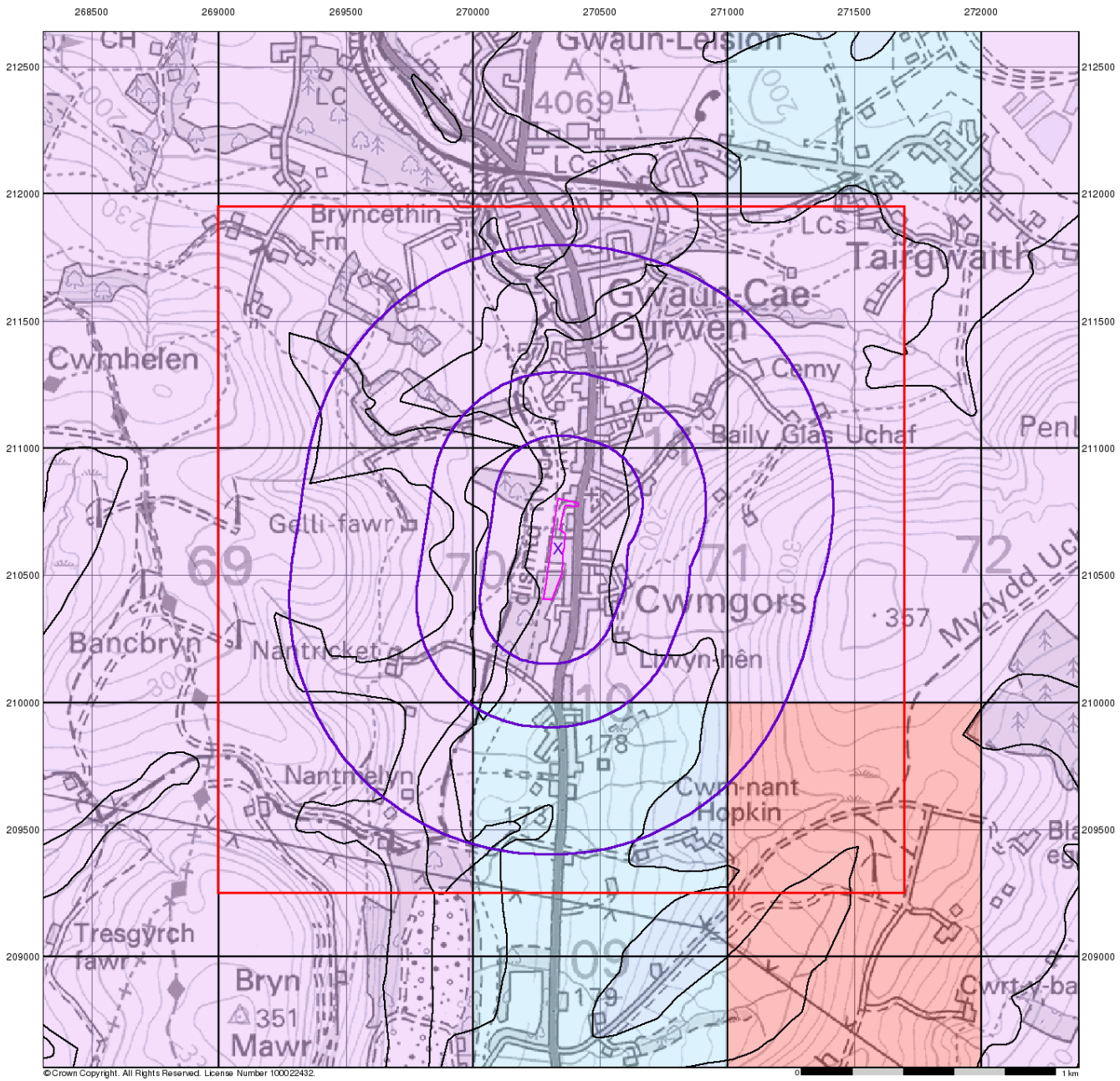
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**Neath Port Talbot County Borough Council - Environmental Health Department** Room 322, Neath Civic Centre, Neath, West Glamorgan, SA11 3QZ	Telephone: 01639 763333 Fax: 01693 763444 Website: www.neath-porttalbot.gov.uk
6	**Carmarthenshire County Council** County Hall, Carmarthen, Dyfed, SA31 1JP	Telephone: 01267 234567 Fax: 01267 238326 Website: www.carmarthenshire.gov.uk
7	**Health and Safety Executive** 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
8	**Neath Port Talbot County Borough Council - Planning Department** Port Talbot Civic Centre, Port Talbot, SA13 1PJ	Telephone: 01639 763333 Fax: 01639 763444 Website: www.neath-porttalbot.gov.uk
9	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
10	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



Intégral Géotechnique

Groundwater Vulnerability

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

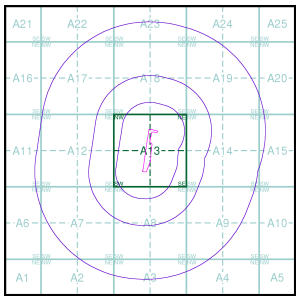
Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



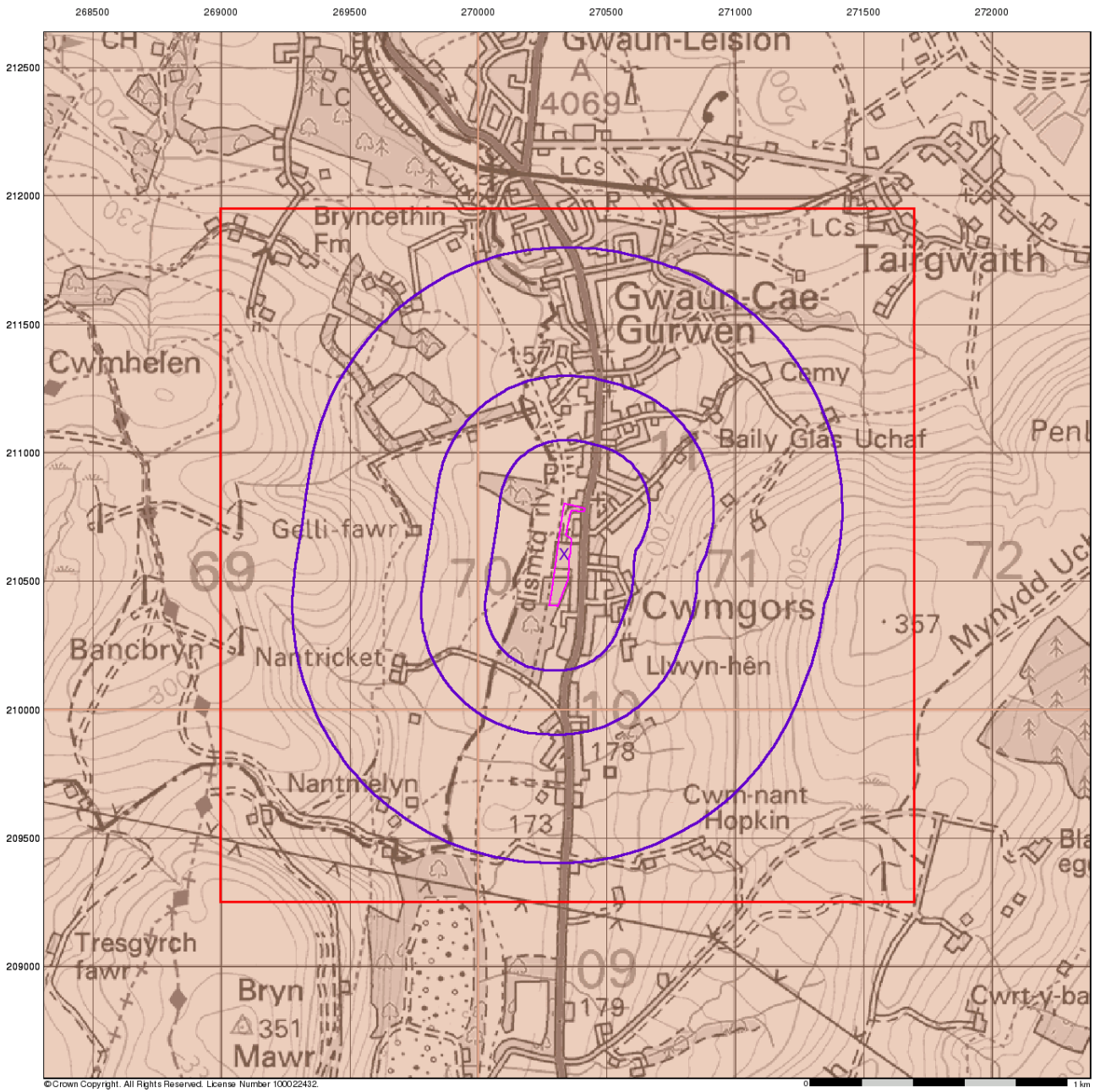
Order Details

Order Number:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details

Heol Y Gors, Cwmgors, Ammanford, SA18 1RS

Landmark® INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Intégral
Géotechnique

Bedrock Aquifer Designation

General

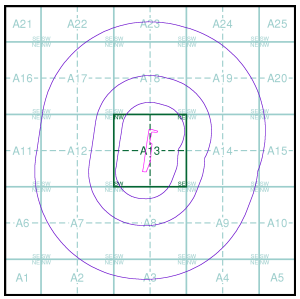
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



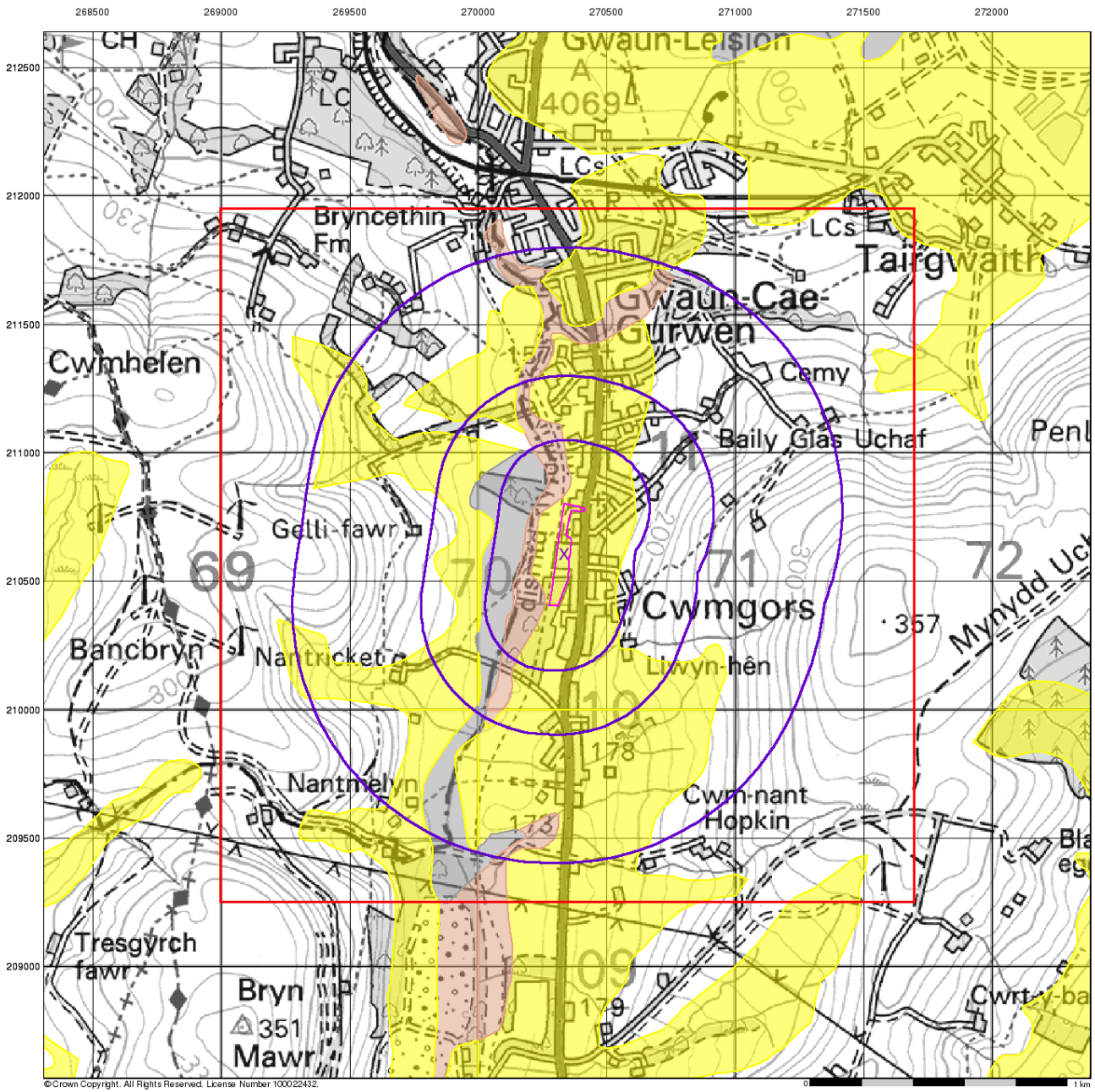
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Order Number:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details

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Intégral Géotechnique

Superficial Aquifer Designation

General

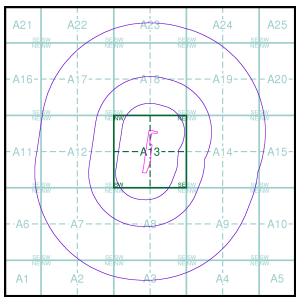
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



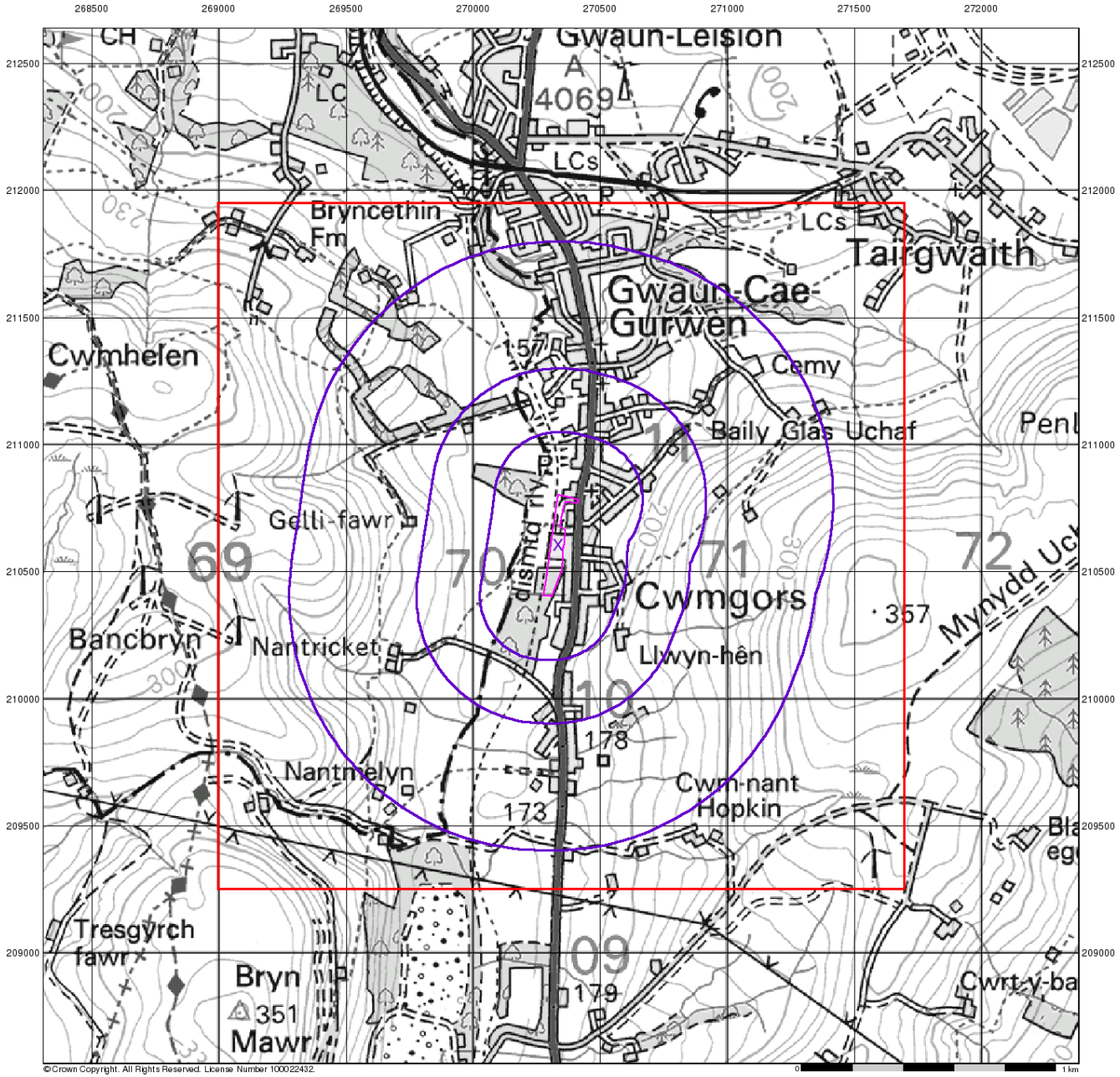
Order Details

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Intégral Géotechnique

Source Protection Zones

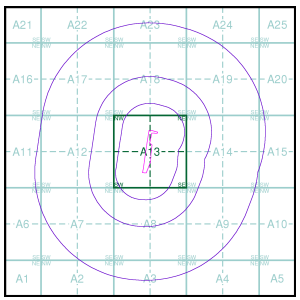
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



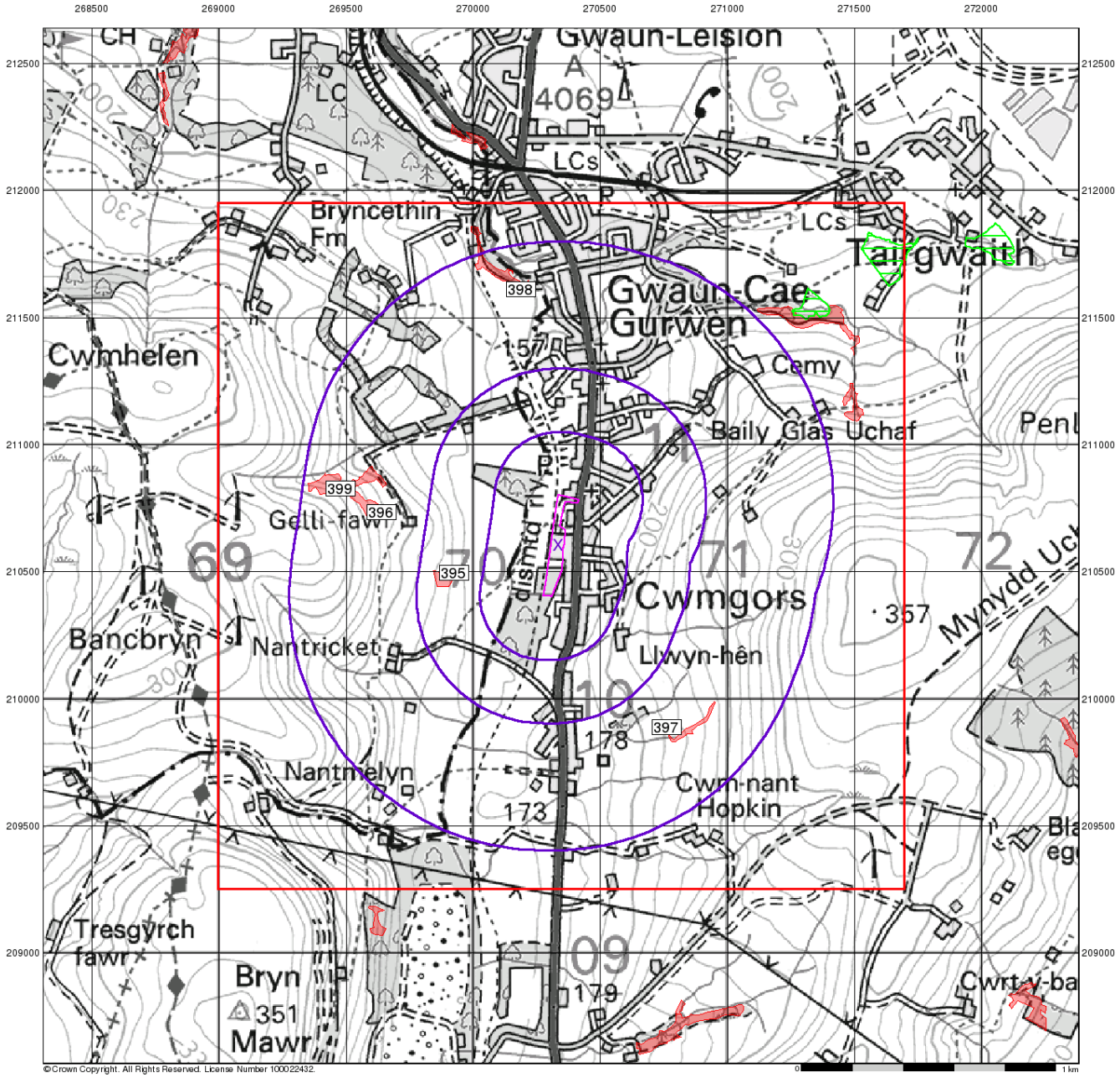
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Intégral
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Sensitive Land Uses

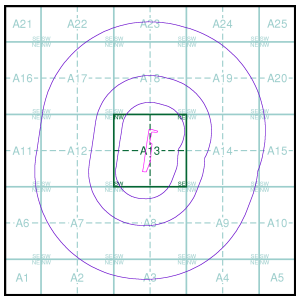
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A

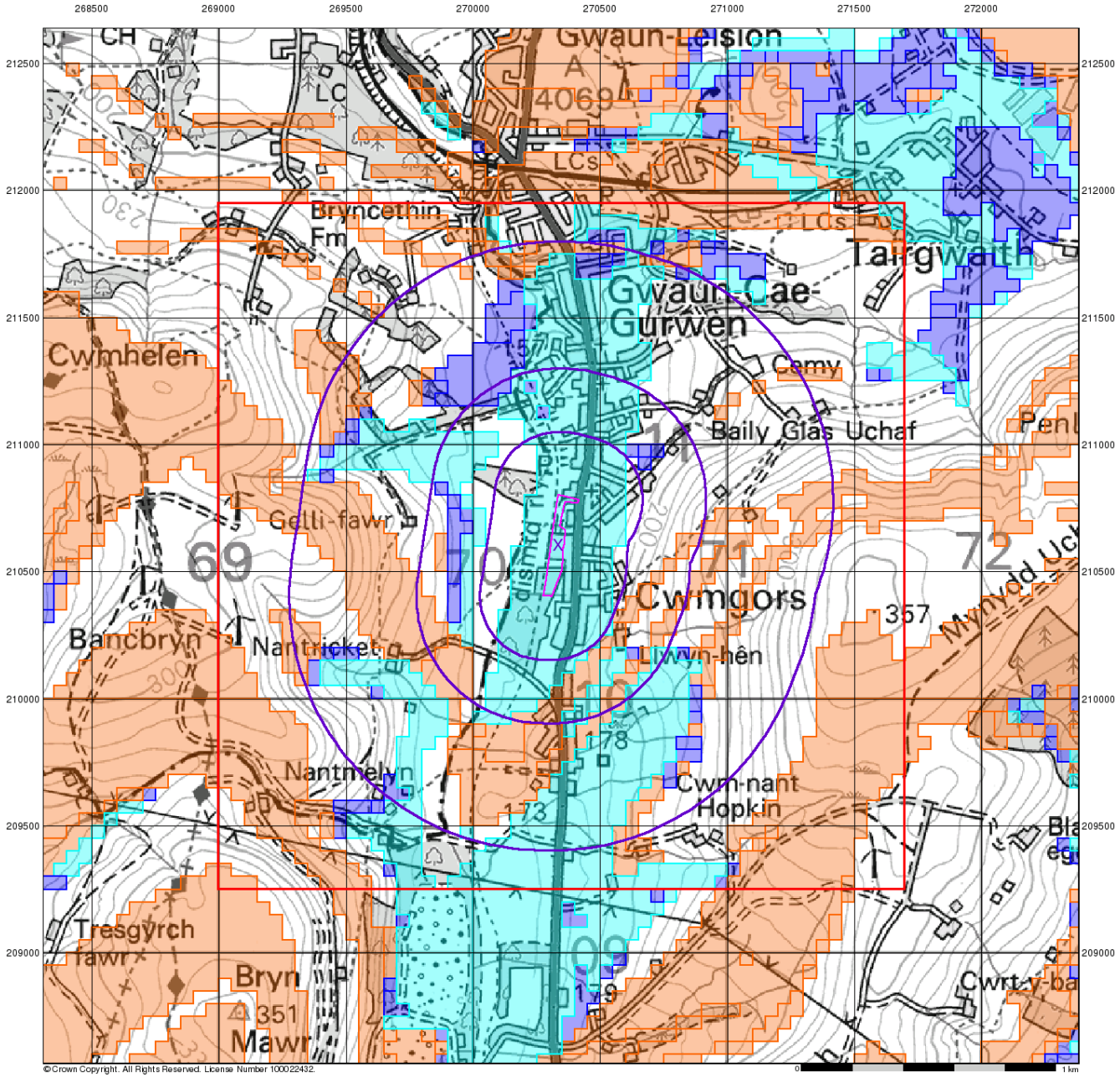


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Search Buffer (m):	1000

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Intégral Géotechnique

BGS Flood GFS Data

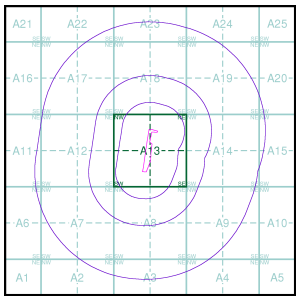
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



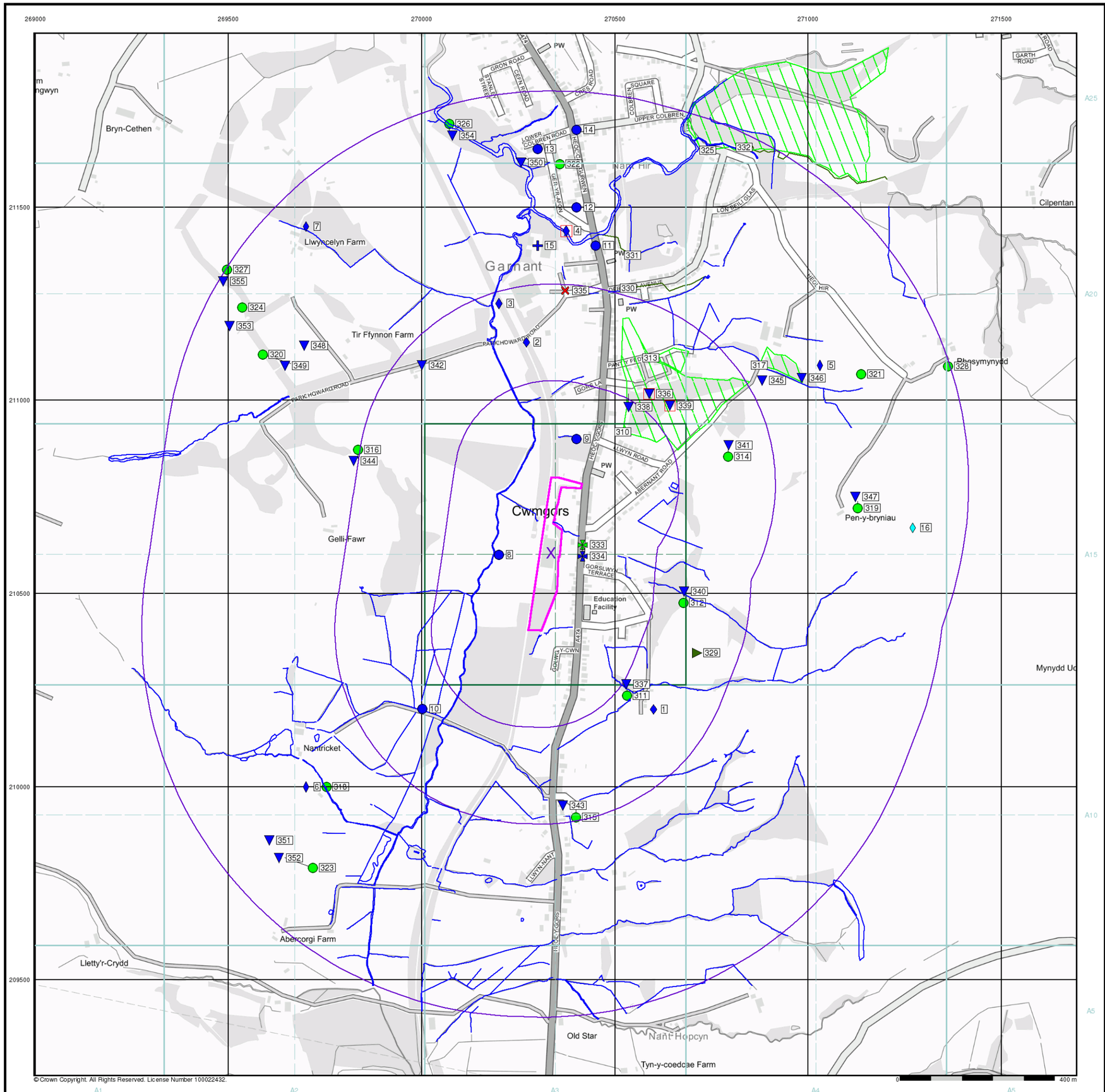
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Intégral Géotechnique

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

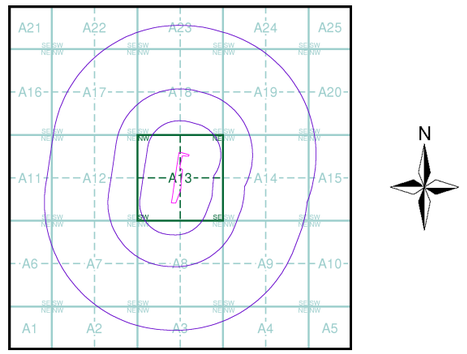
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A



Order Details

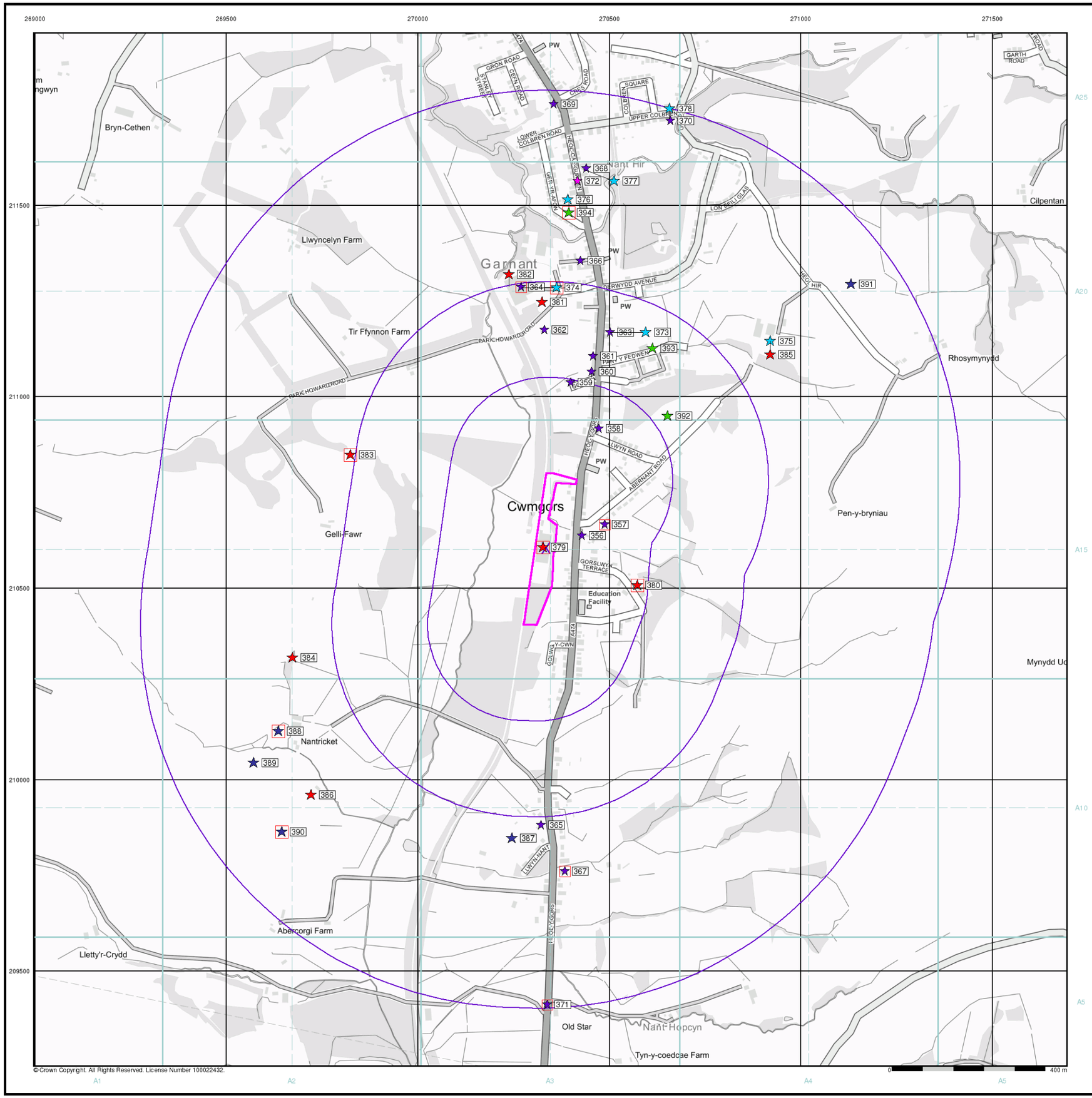
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Intégral Géotechnique

Industrial Land Use Map

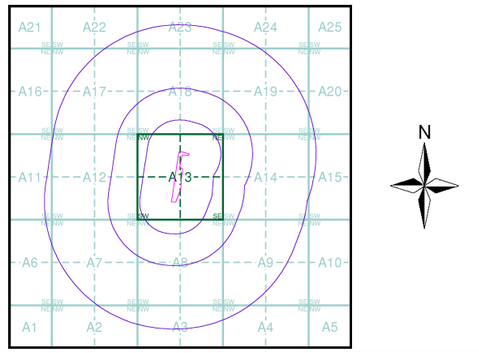
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



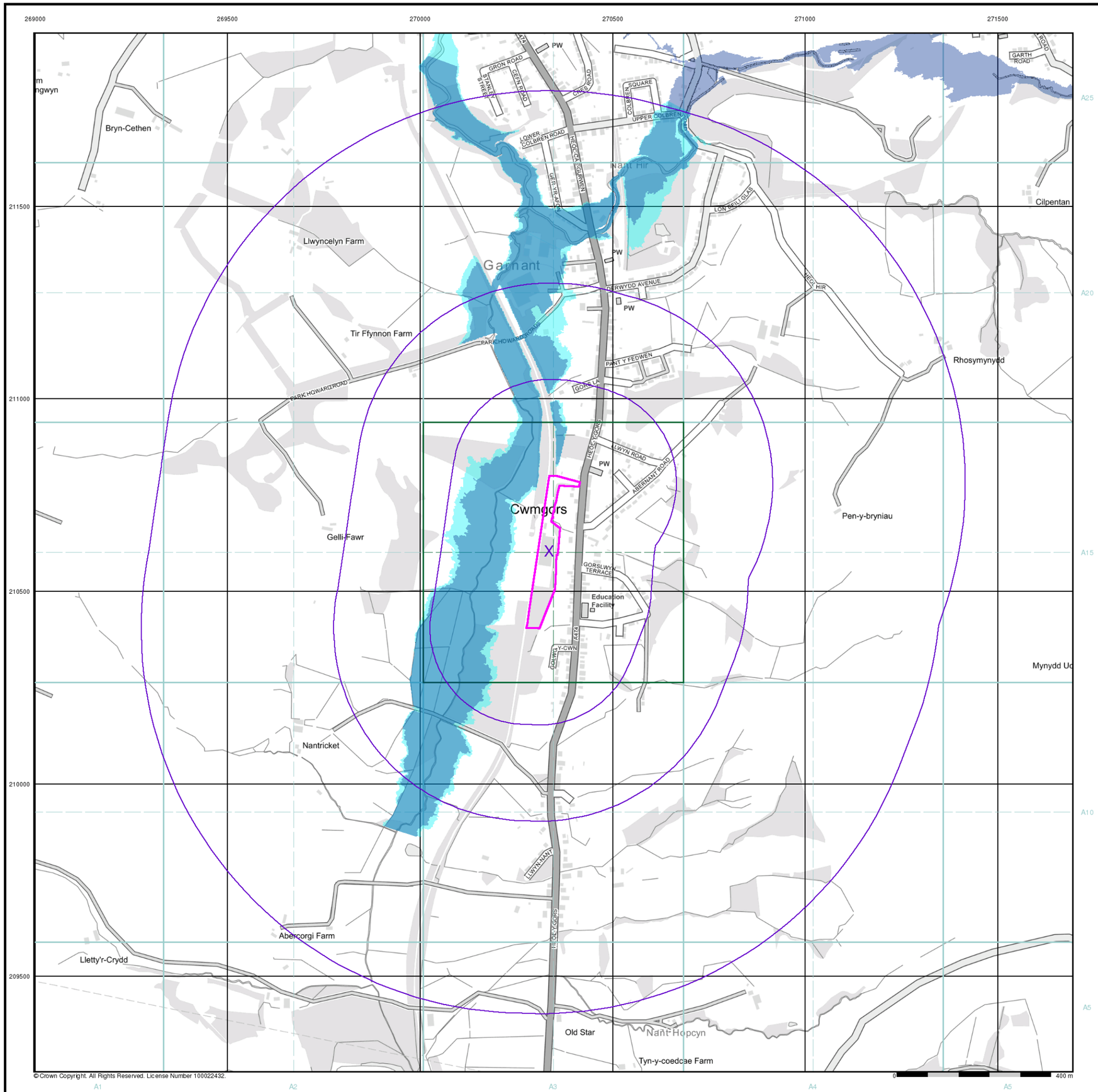
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Intégral
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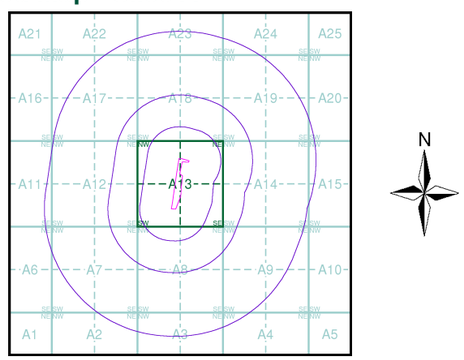
General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



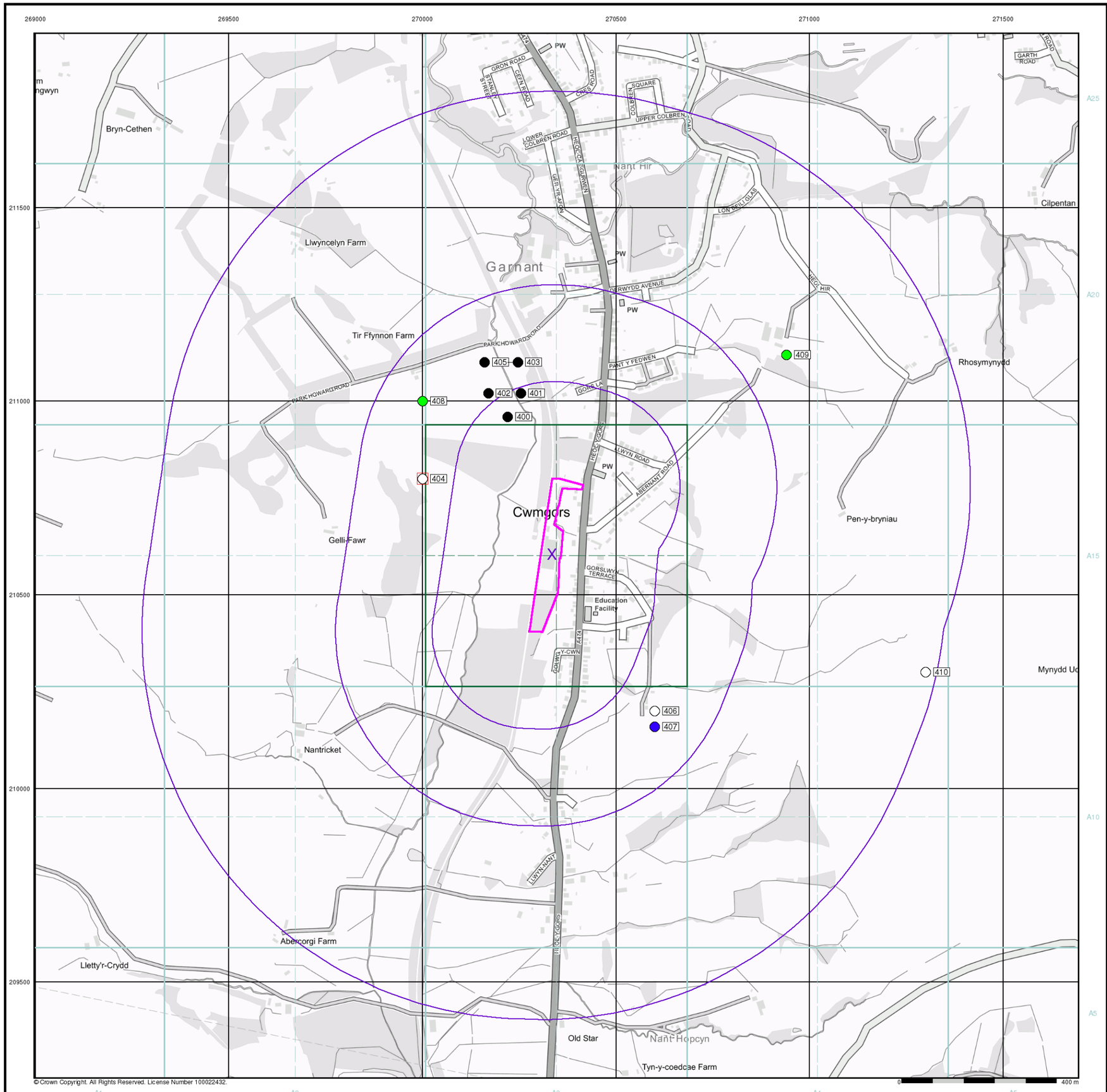
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Intégral Géotechnique

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

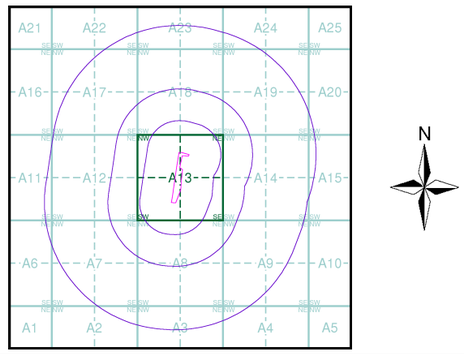
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



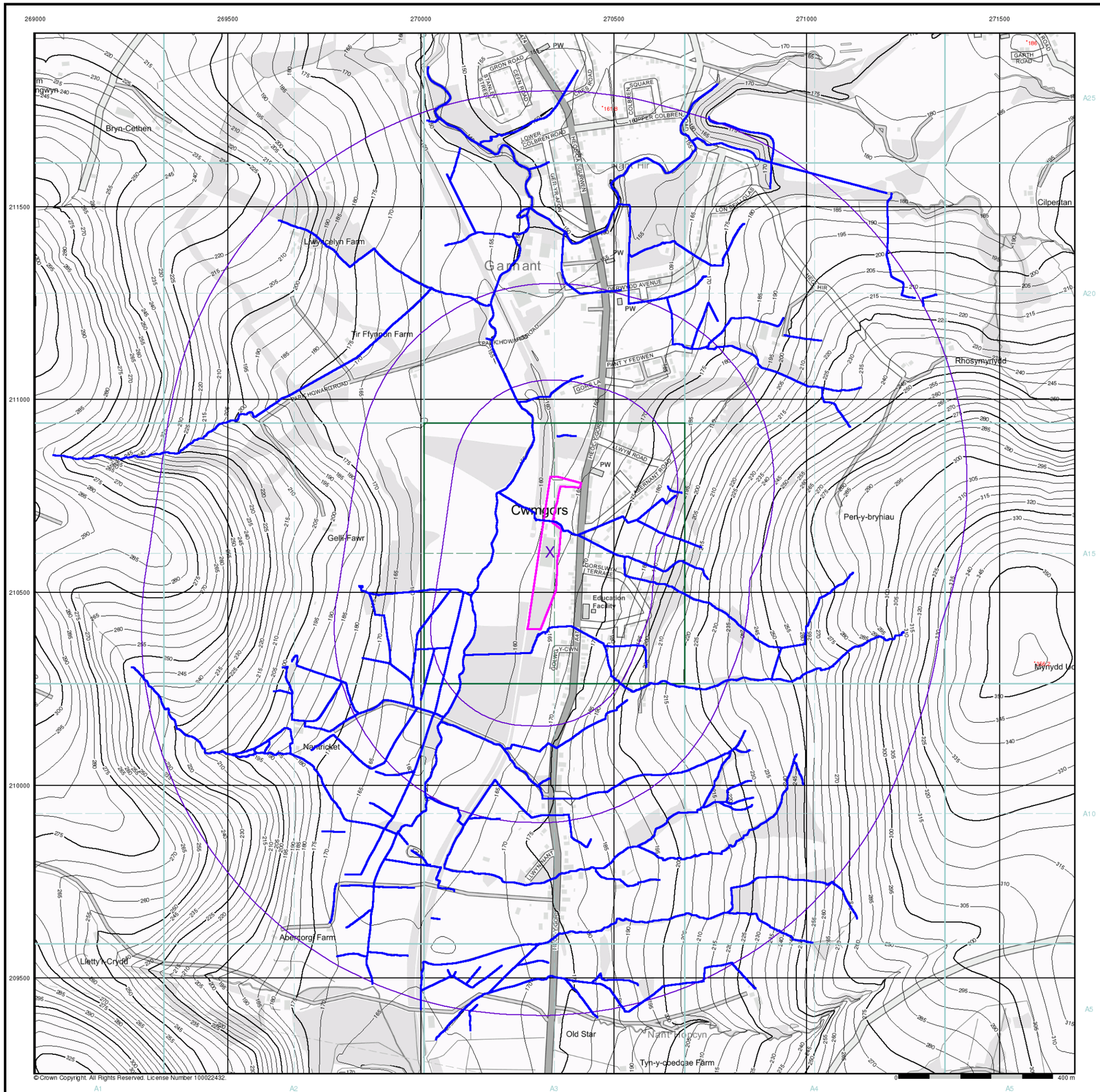
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Intégral Géotechnique

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

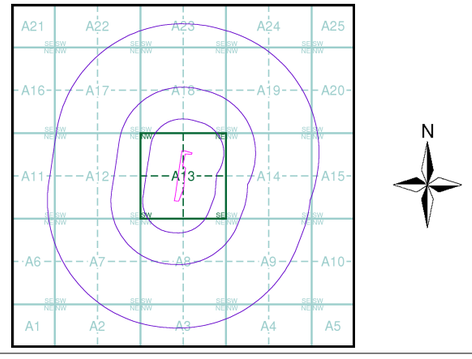
OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

Contours (height in meters)

- Standard Contour
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

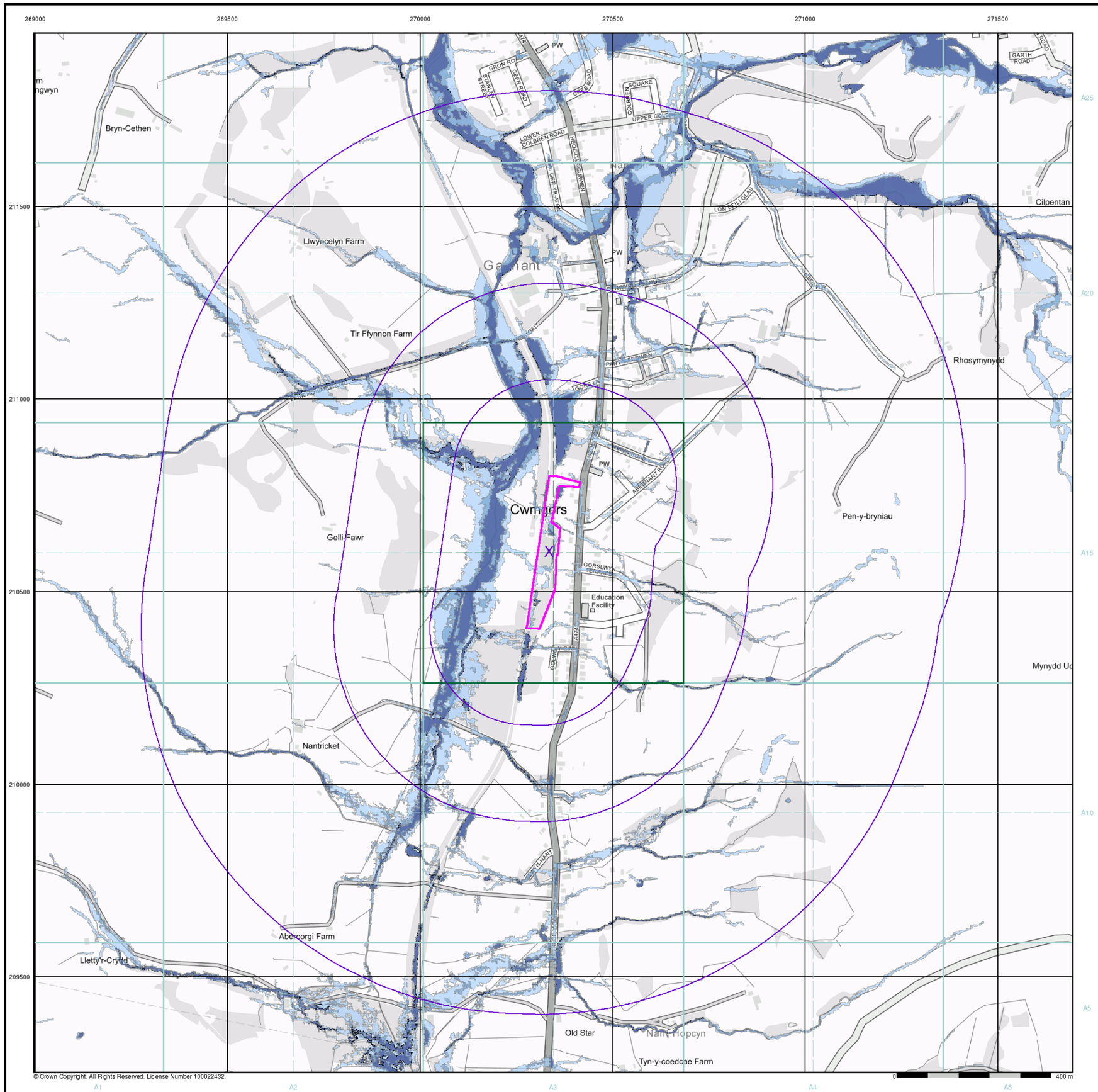
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Intégral Géotechnique

General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Risk of Flooding from Surface Water

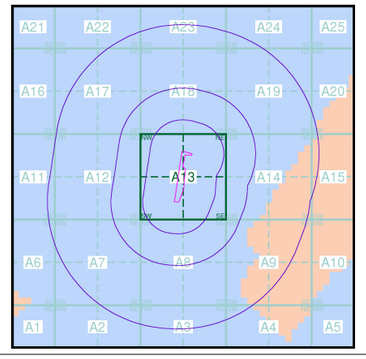
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A



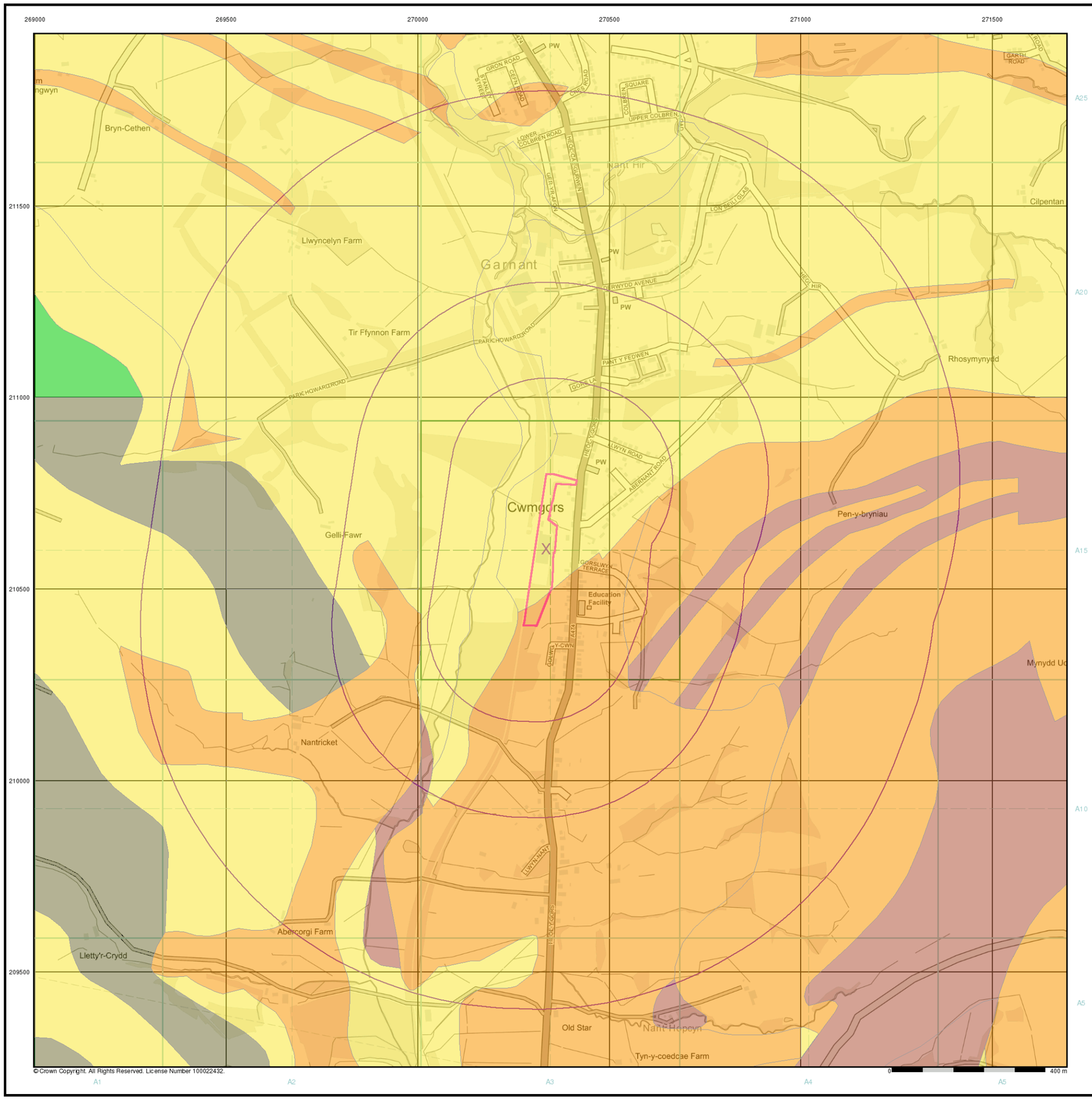
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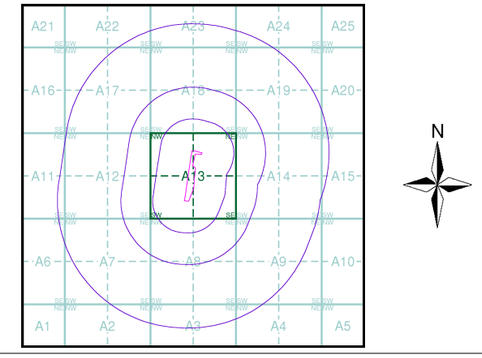
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



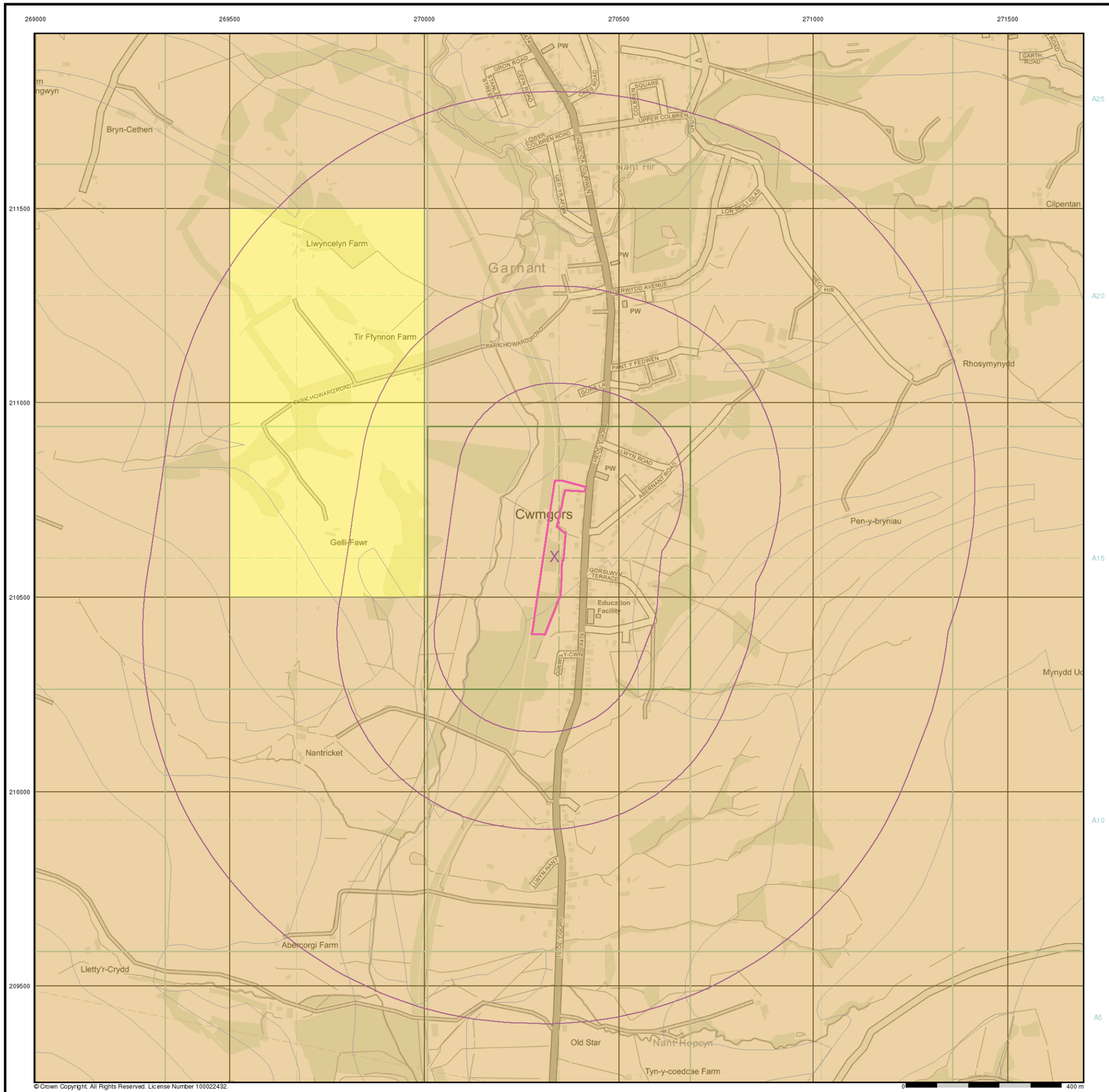
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Intégral
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General

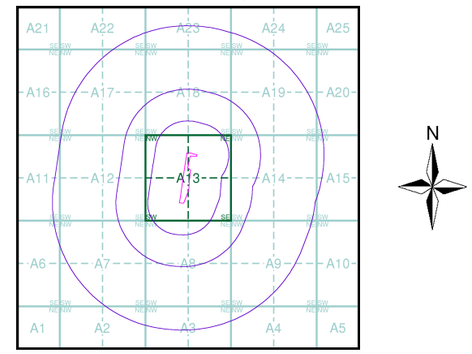
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



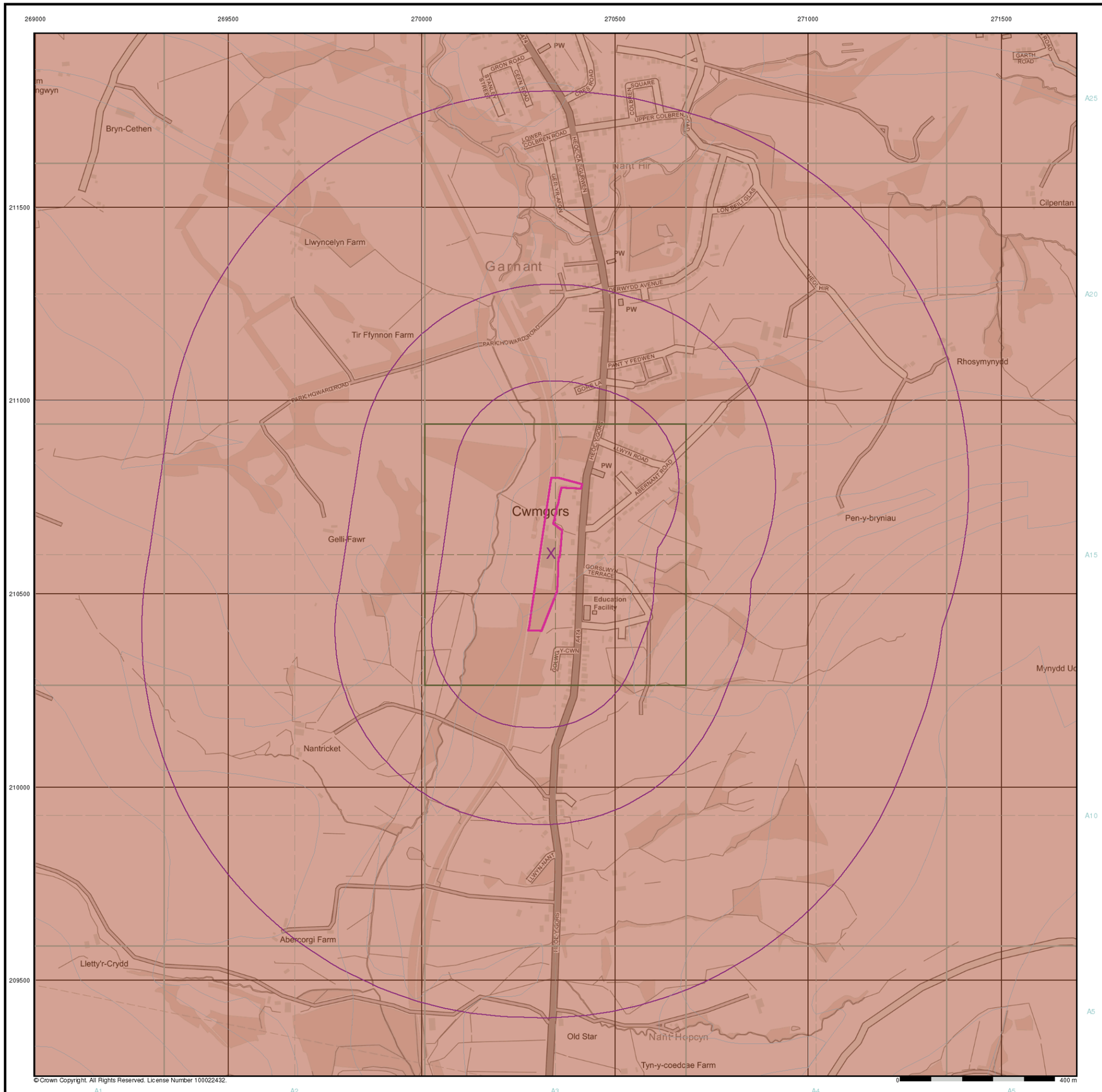
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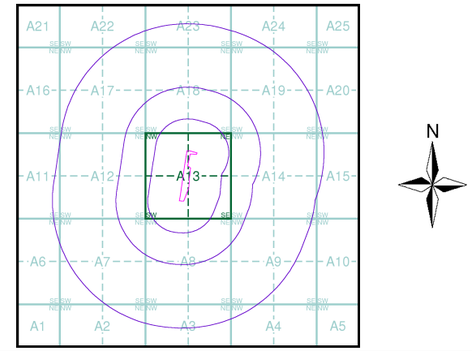
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



Order Details

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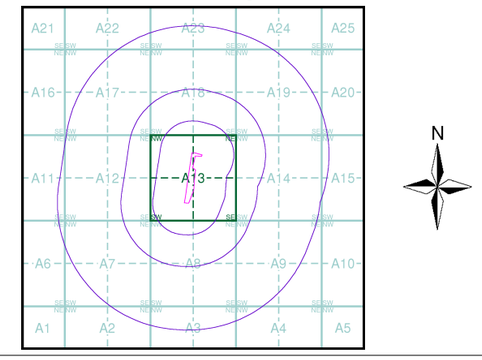
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice A



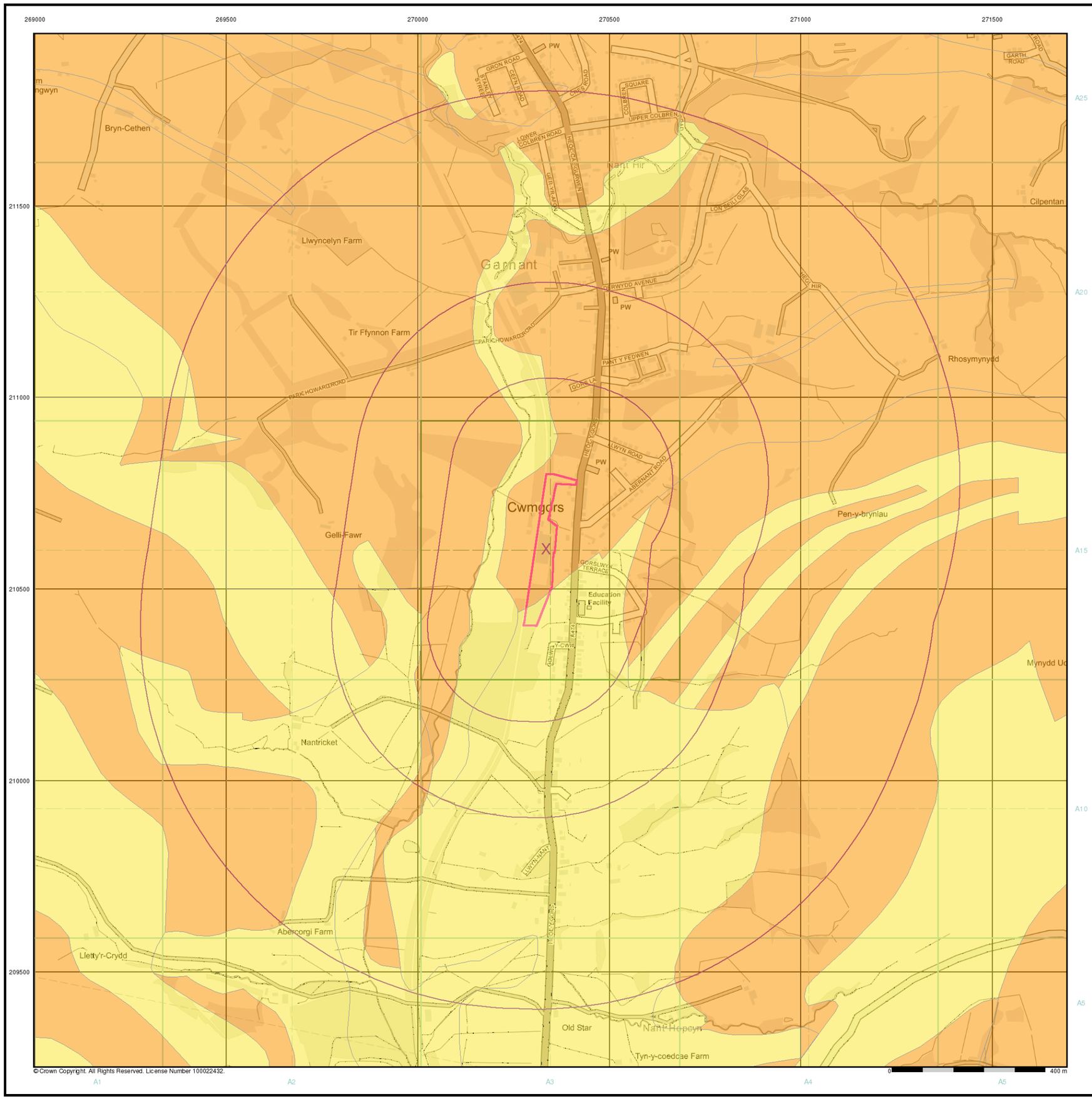
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Intégral Géotechnique

General

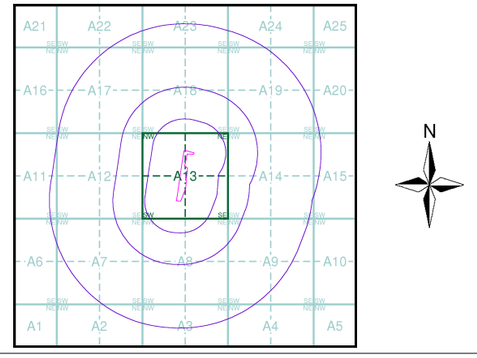
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



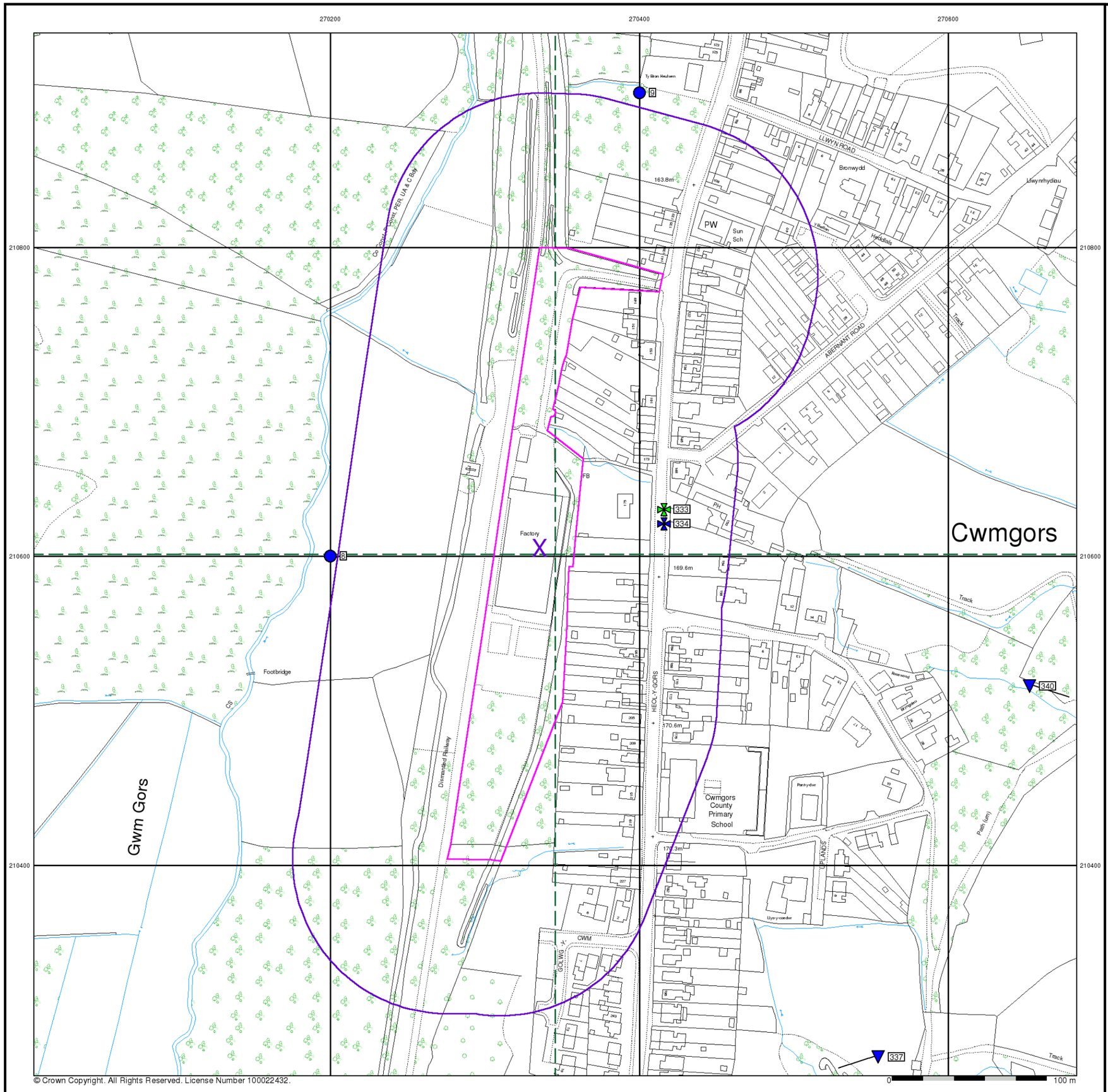
Order Details

Order Details:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details

Heol Y Gors, Cwmgors, Ammanford, SA18 1RS

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Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Intégral Géotechnique

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location
- Pylon
- Overhead Transmission Line

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

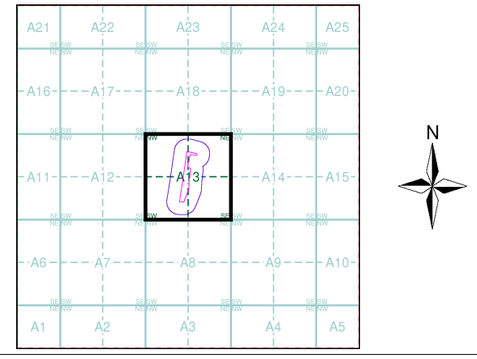
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A13



Order Details

Order Number:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Plot Buffer (m):	100

Site Details

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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	PEAT	Peat	Peat	Not Supplied - Quaternary
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SWUCM	South Wales Upper Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	LLFB	Llynfi Member	Sandstone	Not Supplied - Westphalian
	LLFB	Llynfi Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	RA	Rhondda Member	Sandstone	Not Supplied - Westphalian
	RA	Rhondda Member	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	SWMCM	South Wales Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	SWMCM	South Wales Middle Coal Measures Formation	Sandstone	Not Supplied - Westphalian
		Faults		
		Rock Segments		

Intégral Géotechnique

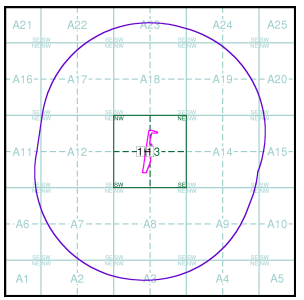
Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID: 1
Map Sheet No: 230
Map Name: Ammanford
Map Date: 1977
Bedrock Geology: Available
Superficial Geology: Available
Artificial Geology: Available
Faults: Not Supplied
Landslip: Available
Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A

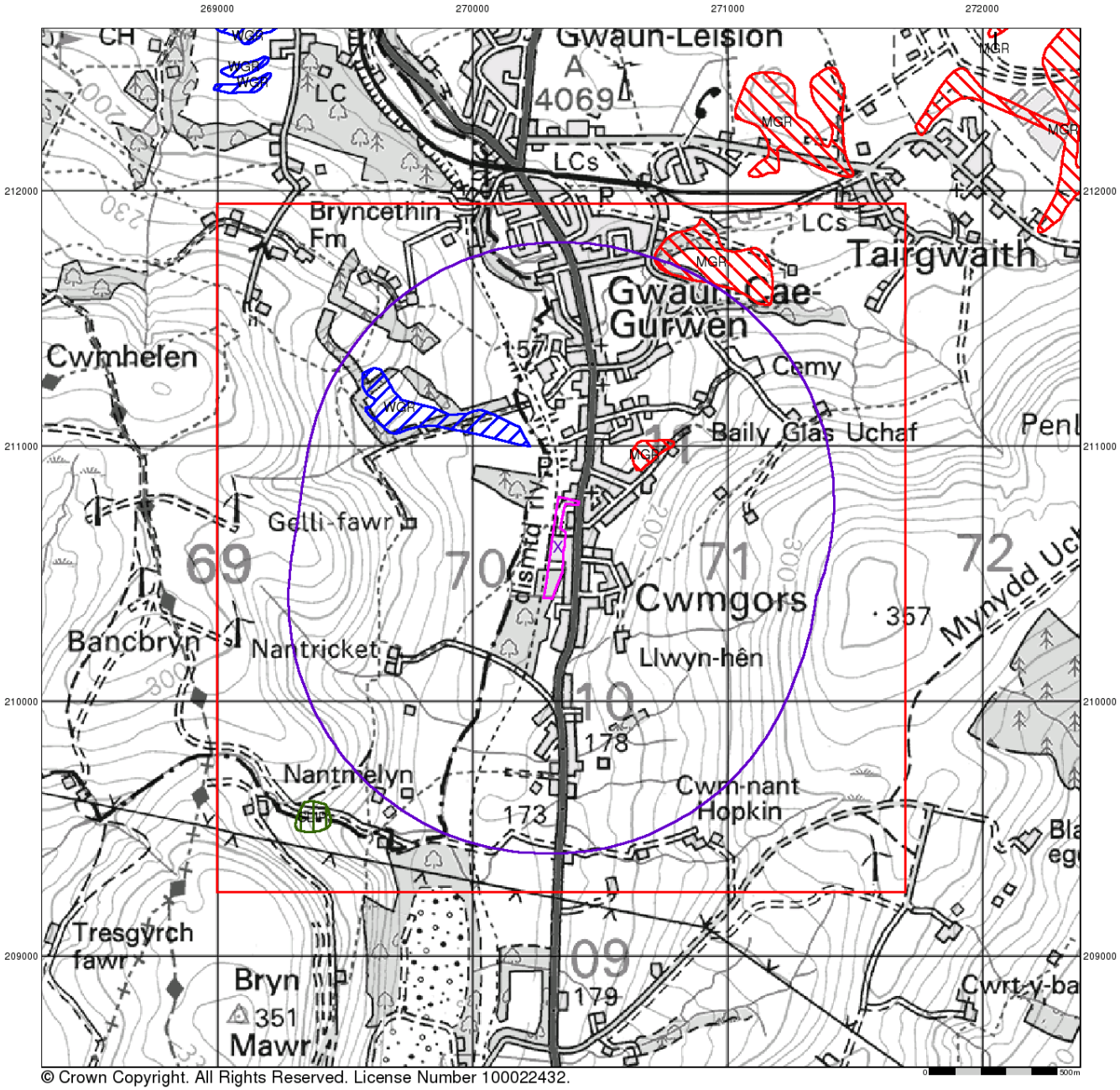


Order Details:

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Customer Reference: 14301/LP
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Slice: A
Site Area (Ha): 1.78
Search Buffer (m): 1000

Site Details:

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Intégral
Géotechnique

Artificial Ground and Landslip

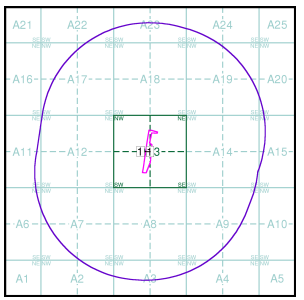
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



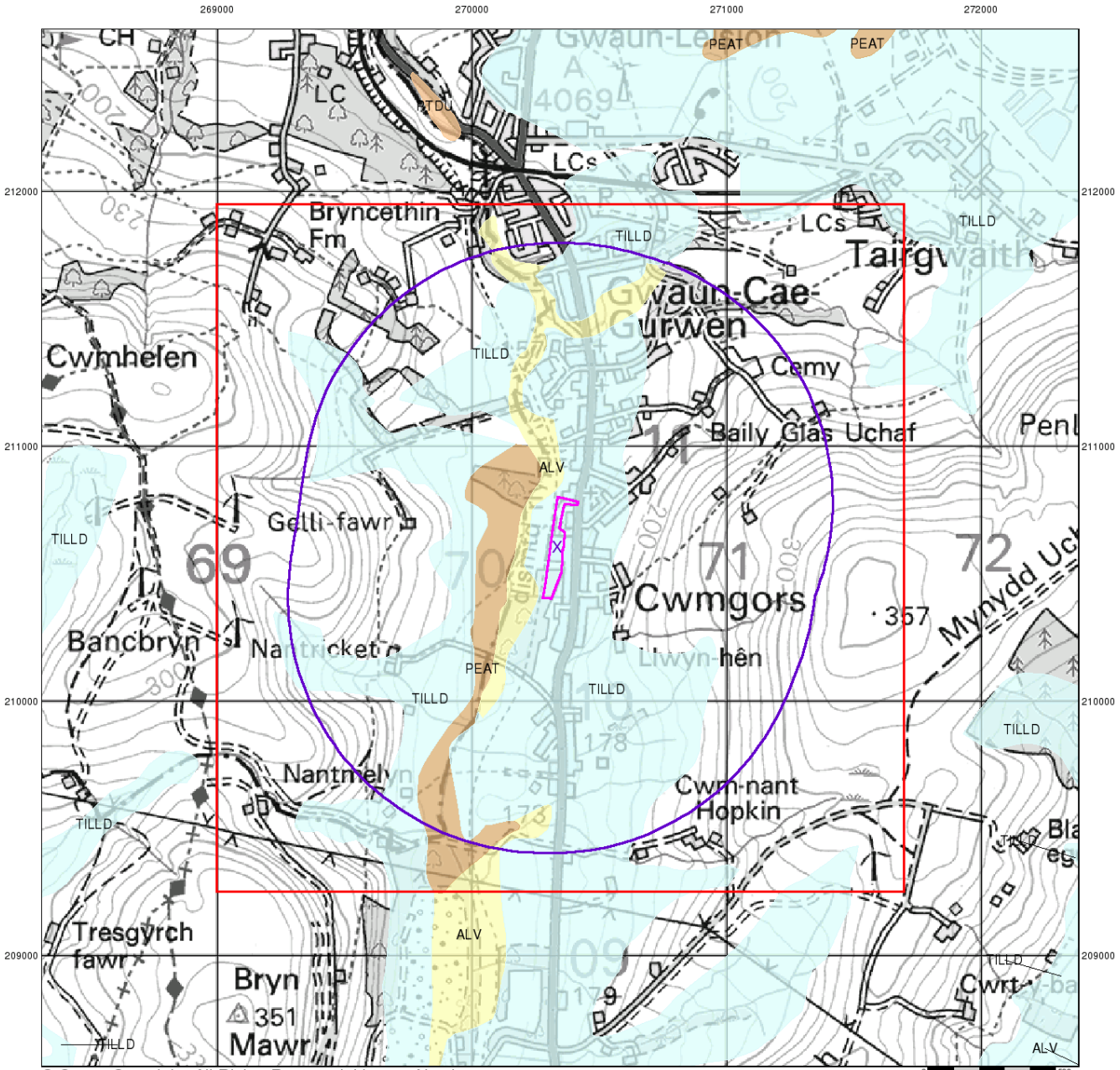
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Intégral
Géotechnique

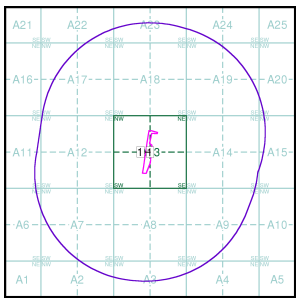
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



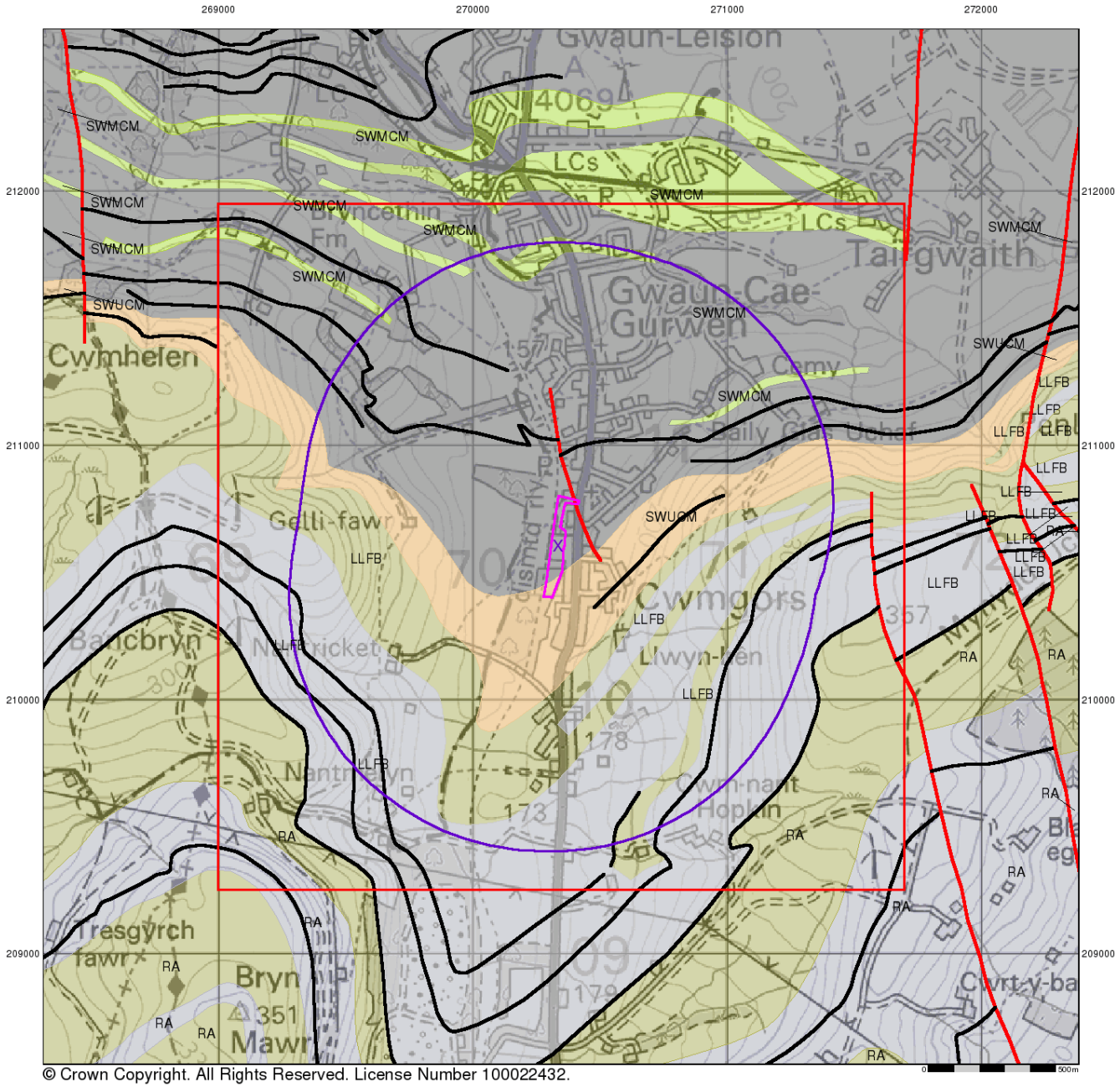
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Intégral
Géotechnique

Bedrock and Faults

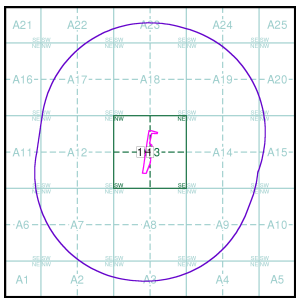
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



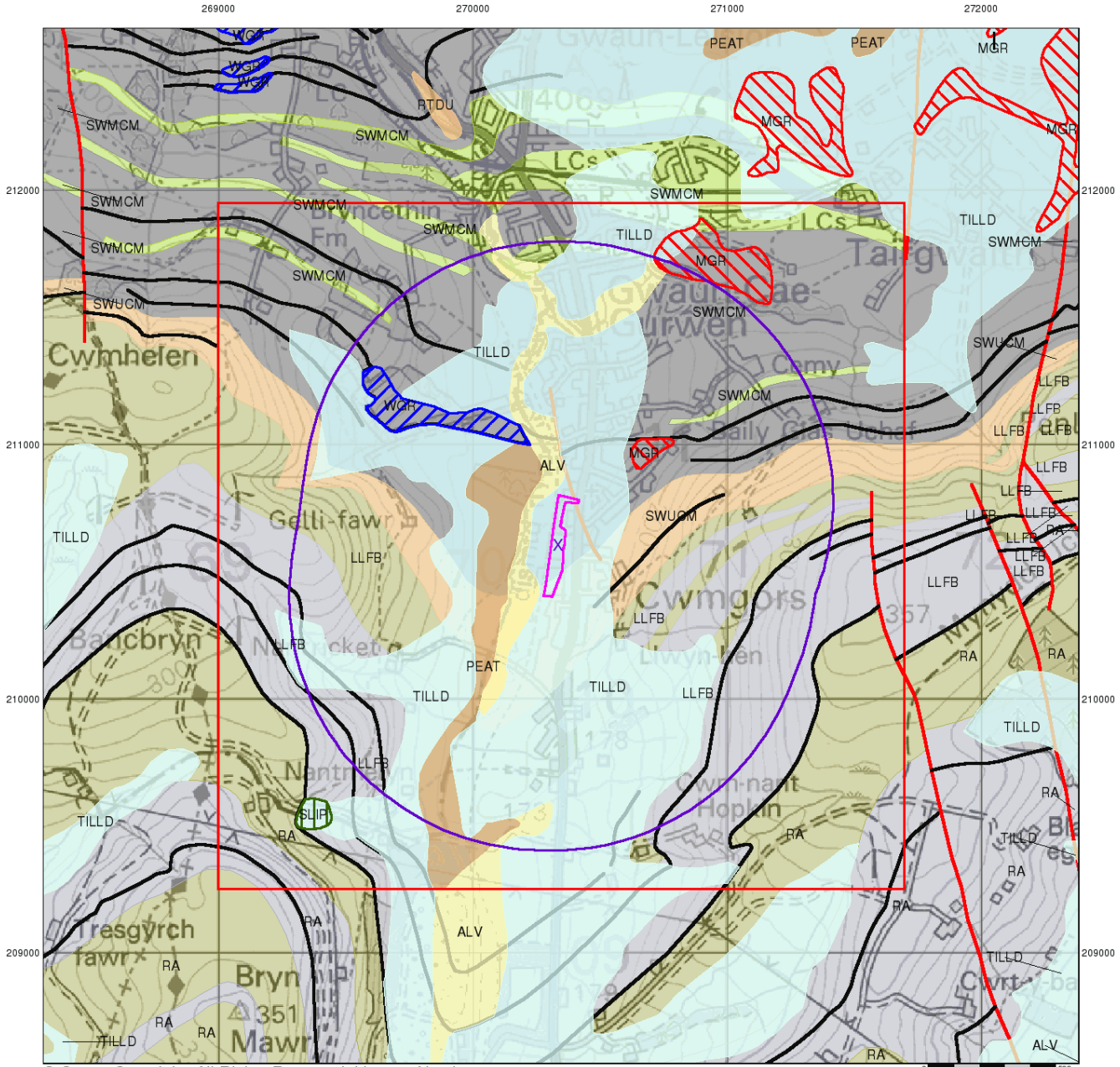
Order Details:

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Slice:	A
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Site Details:

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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

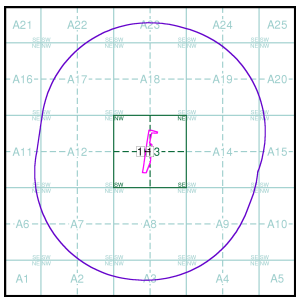
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number:	333222872_1_1
Customer Reference:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details:

Heol Y Gors, Cwmgors, Ammanford, SA18 1RS

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

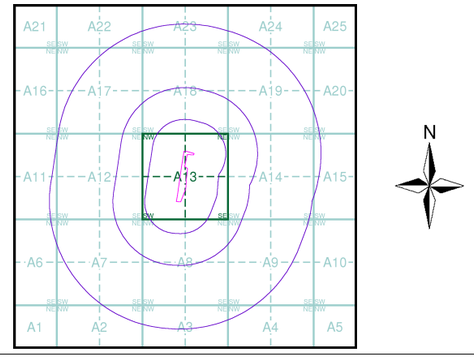
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1883	2
Carmarthenshire	1:10,560	1889	3
Glamorganshire	1:10,560	1900 - 1901	4
Carmarthenshire	1:10,560	1907 - 1908	5
Carmarthenshire	1:10,560	1921	6
Carmarthenshire	1:10,560	1938 - 1953	7
Carmarthenshire	1:10,560	1953	8
Ordnance Survey Plan	1:10,000	1964 - 1965	9
Ordnance Survey Plan	1:10,000	1987 - 1989	10
Ordnance Survey Plan	1:10,000	1991 - 1994	11
10K Raster Mapping	1:10,000	1999	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2023	14

Historical Map - Slice A



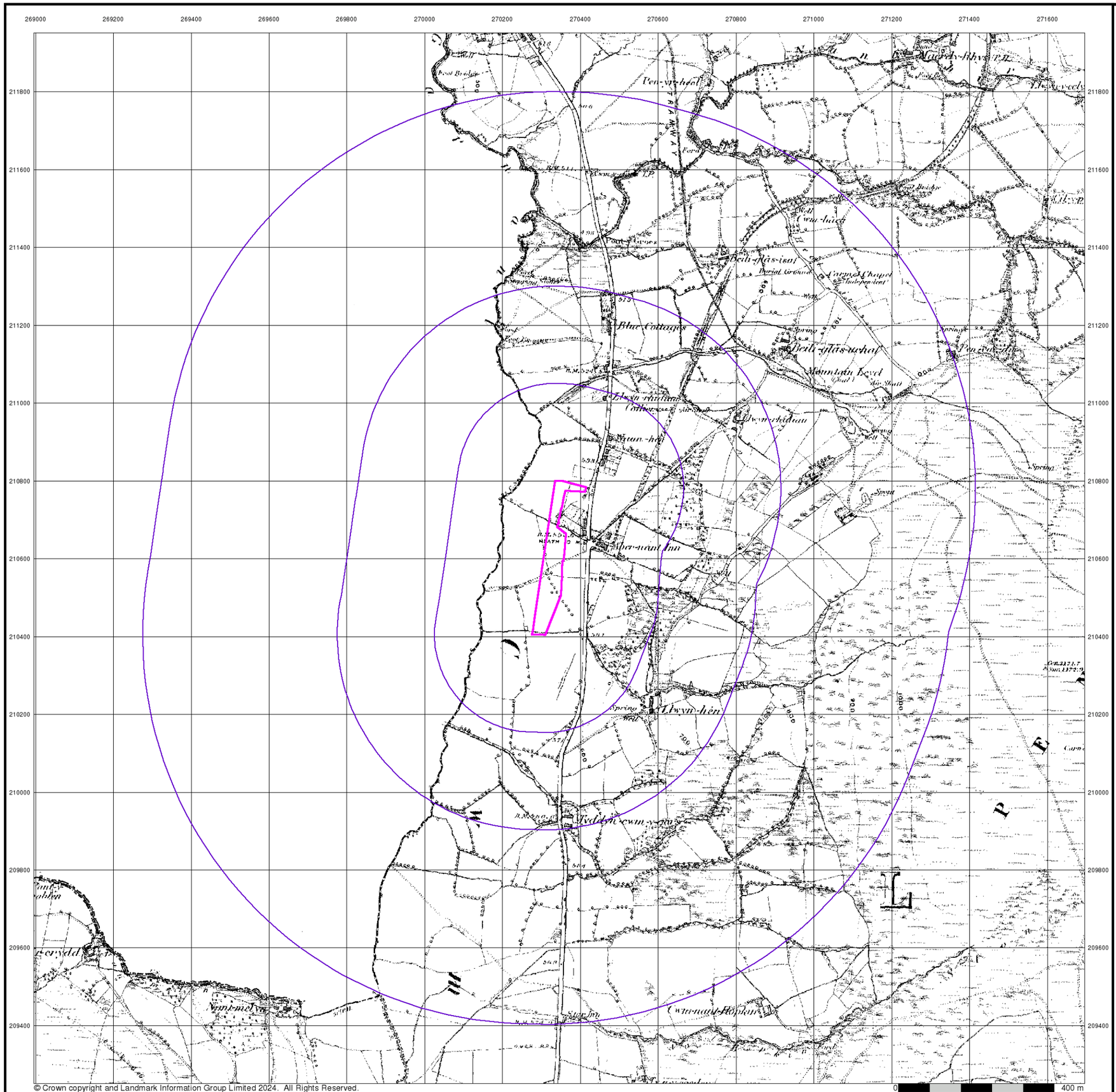
Order Details

Order Number: 333222872_1_1
Customer Ref: 14301/LP
National Grid Reference: 270340, 210610
Slice: A
Site Area (Ha): 1.78
Search Buffer (m): 1000

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Intégral Géotechnique

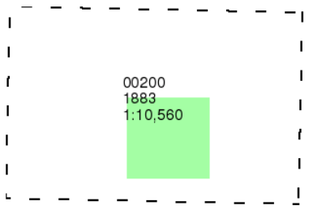
Glamorganshire

Published 1883

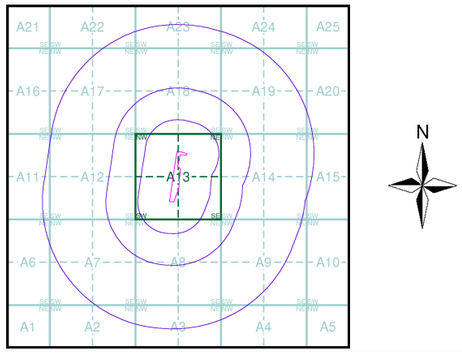
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



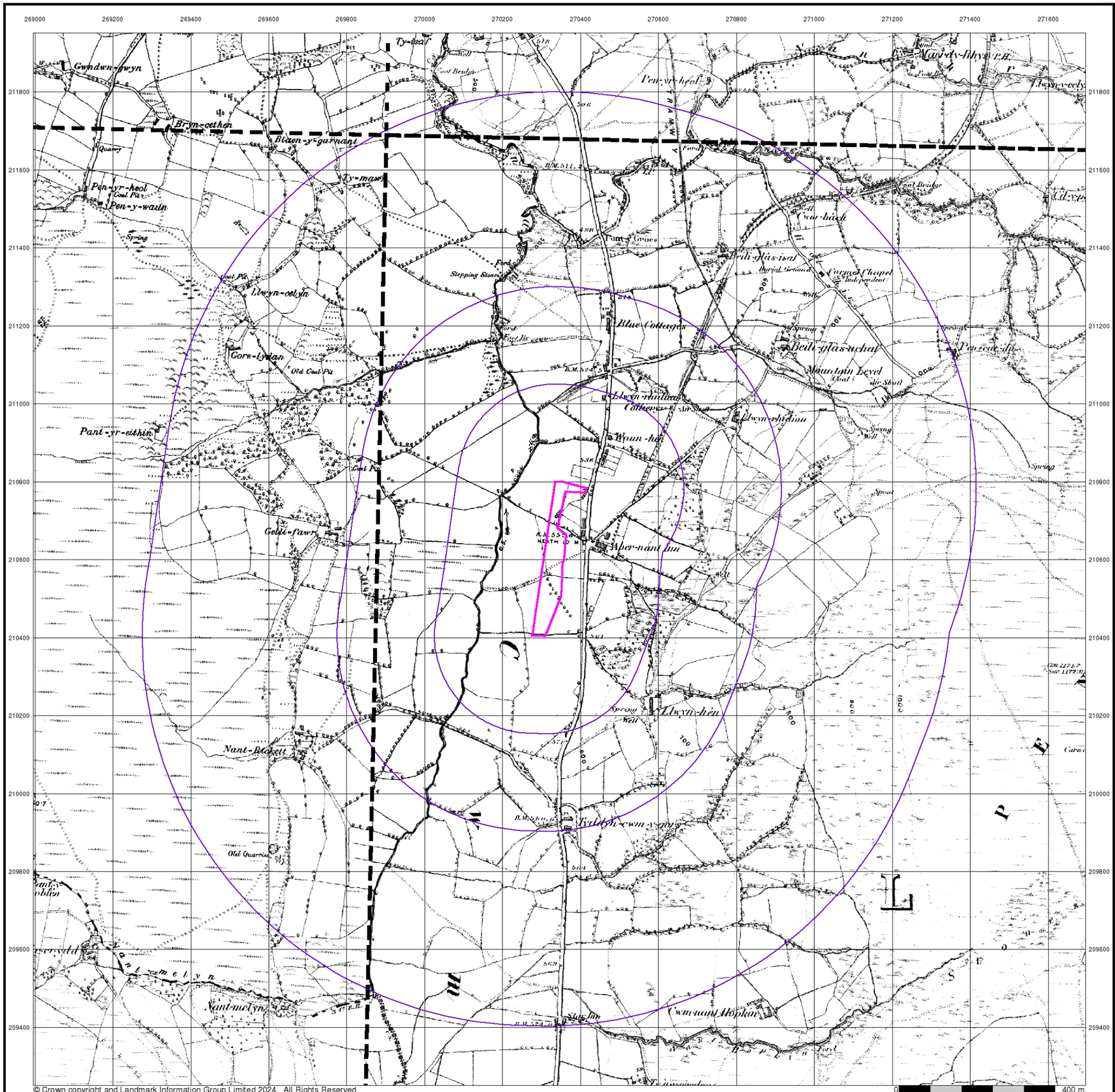
Order Details

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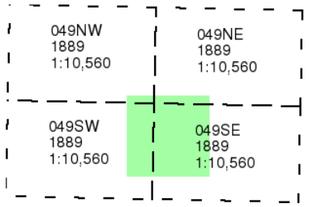
Carmarthenshire

Published 1889

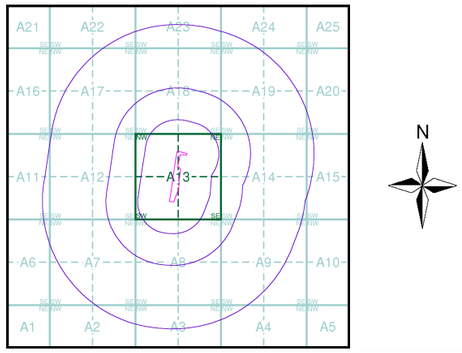
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Map Name(s) and Date(s)



Historical Map - Slice A



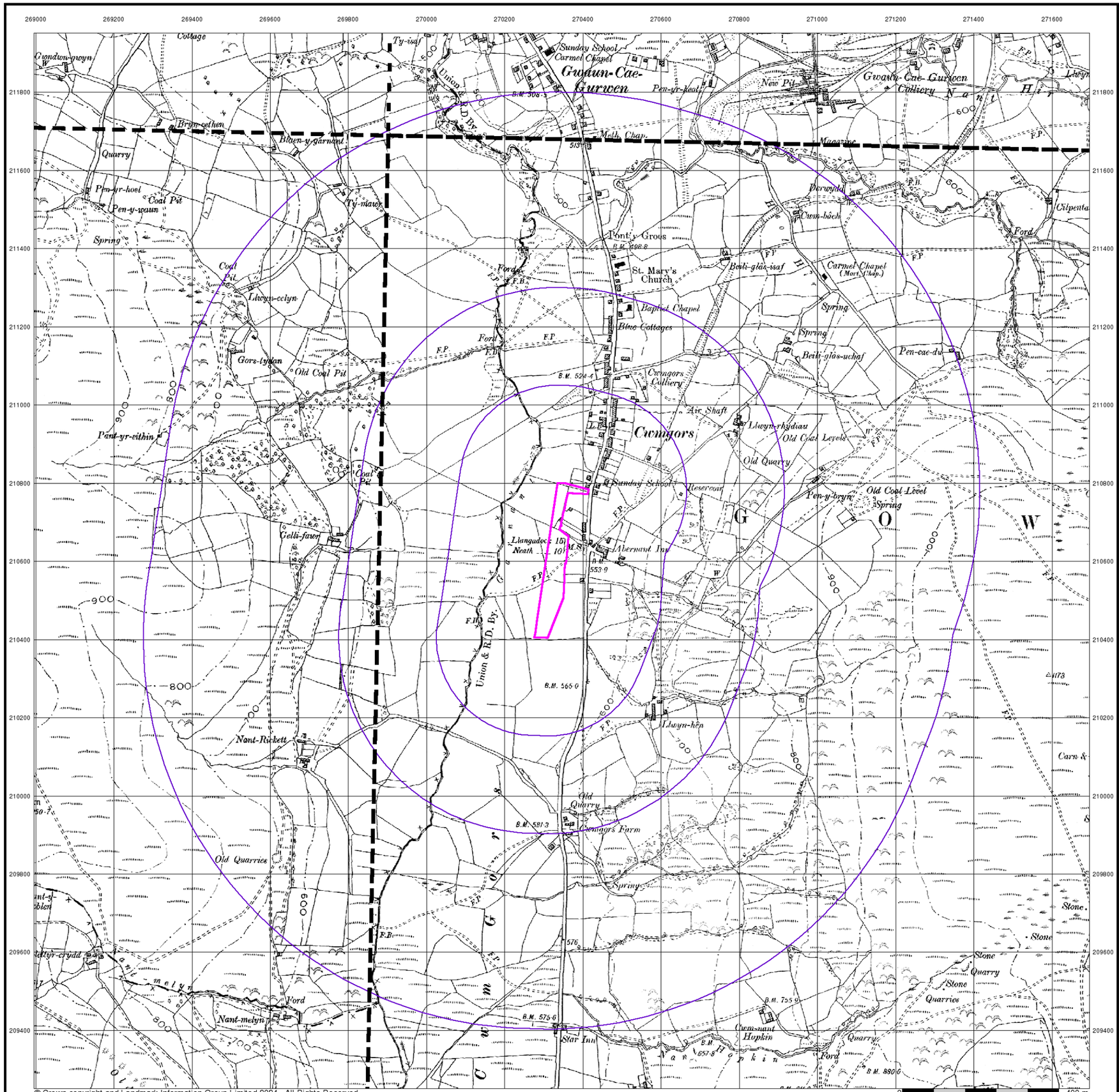
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Intégral Géotechnique

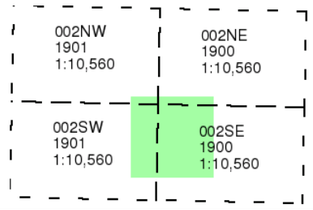
Glamorganshire

Published 1900 - 1901

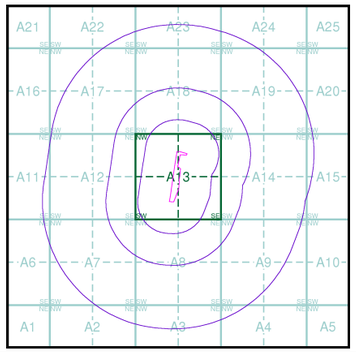
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details

Heol Y Gors, Cwmgors, Ammanford, SA18 1RS

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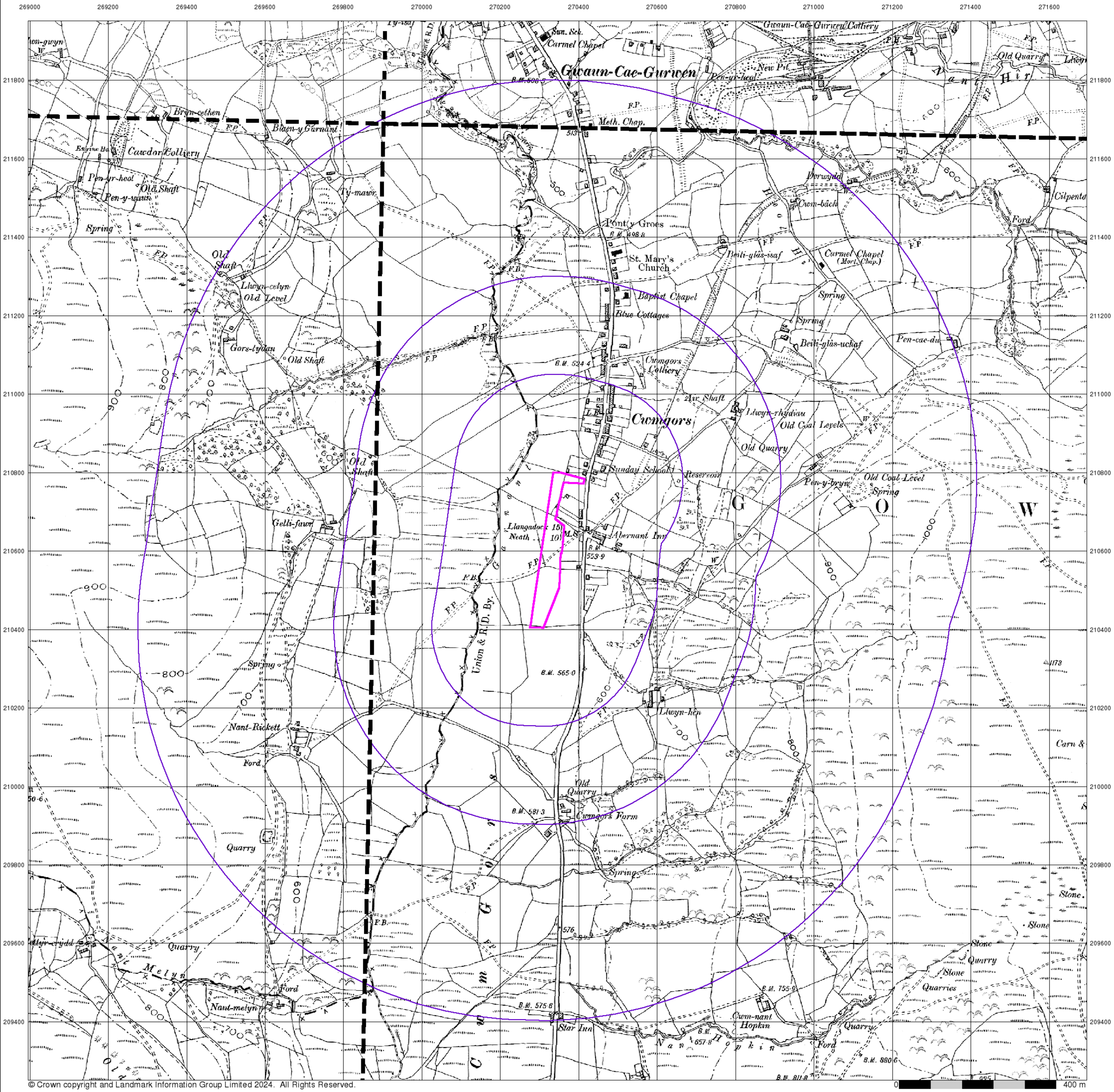
Intégral Géotechnique

Carmarthenshire

Published 1907 - 1908

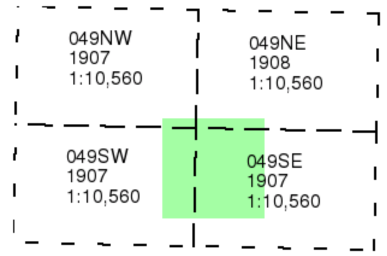
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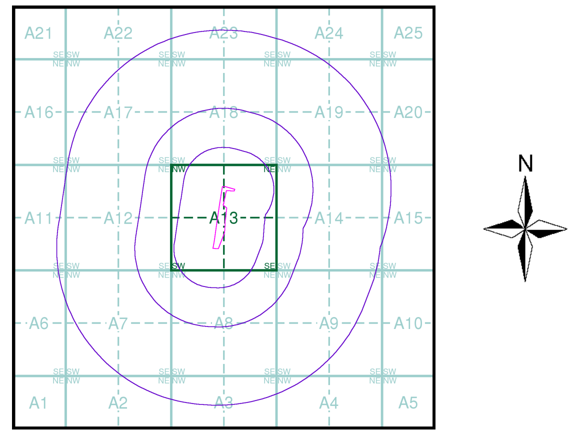


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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

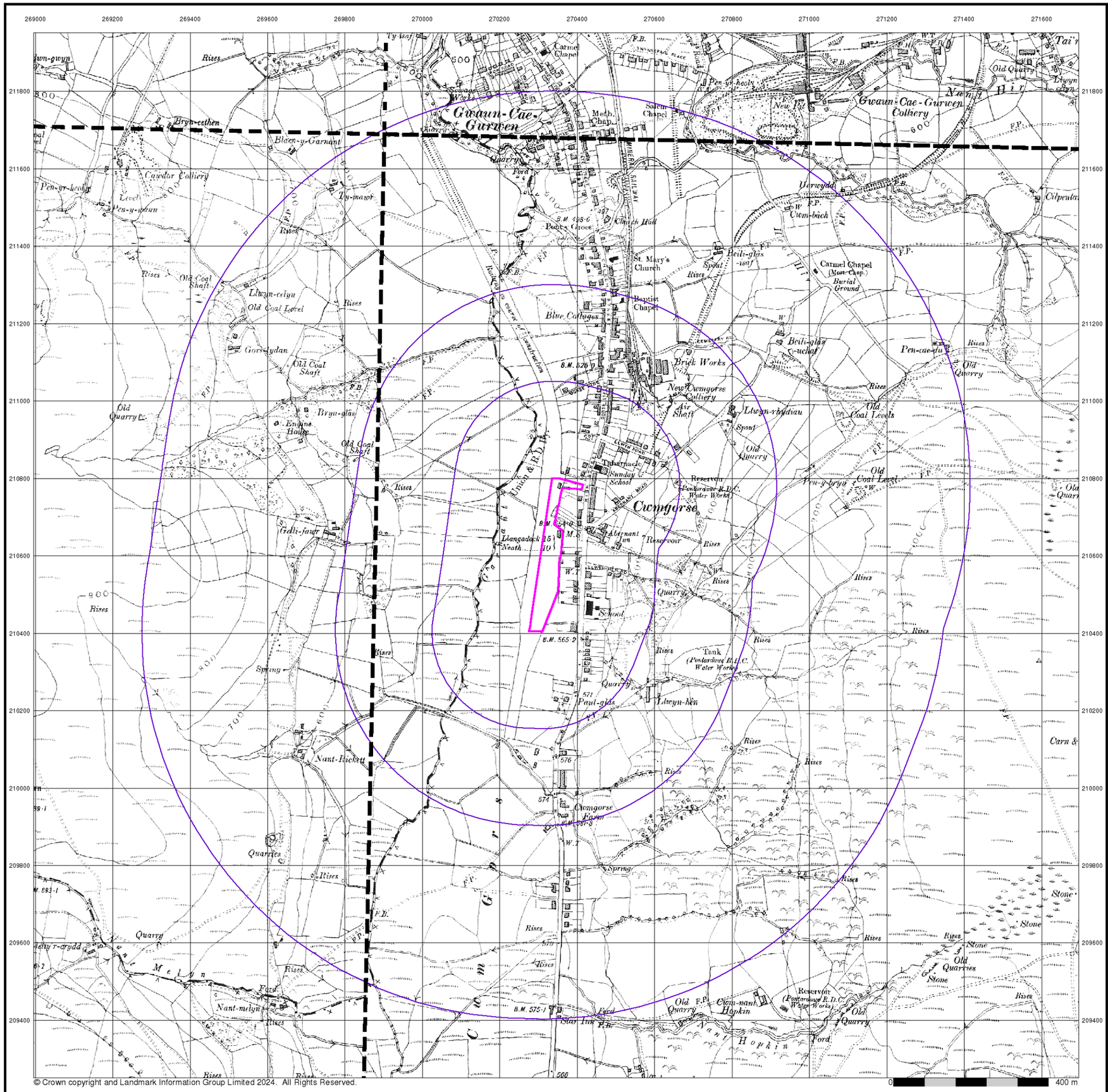
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Slice: A
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Search Buffer (m): 1000

Site Details

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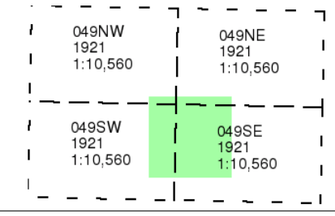
Carmarthenshire

Published 1921

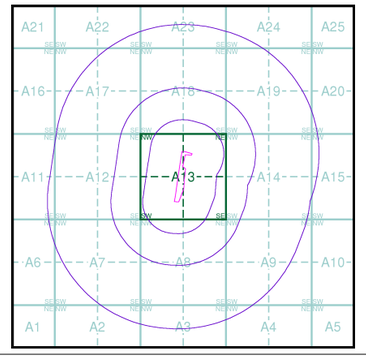
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



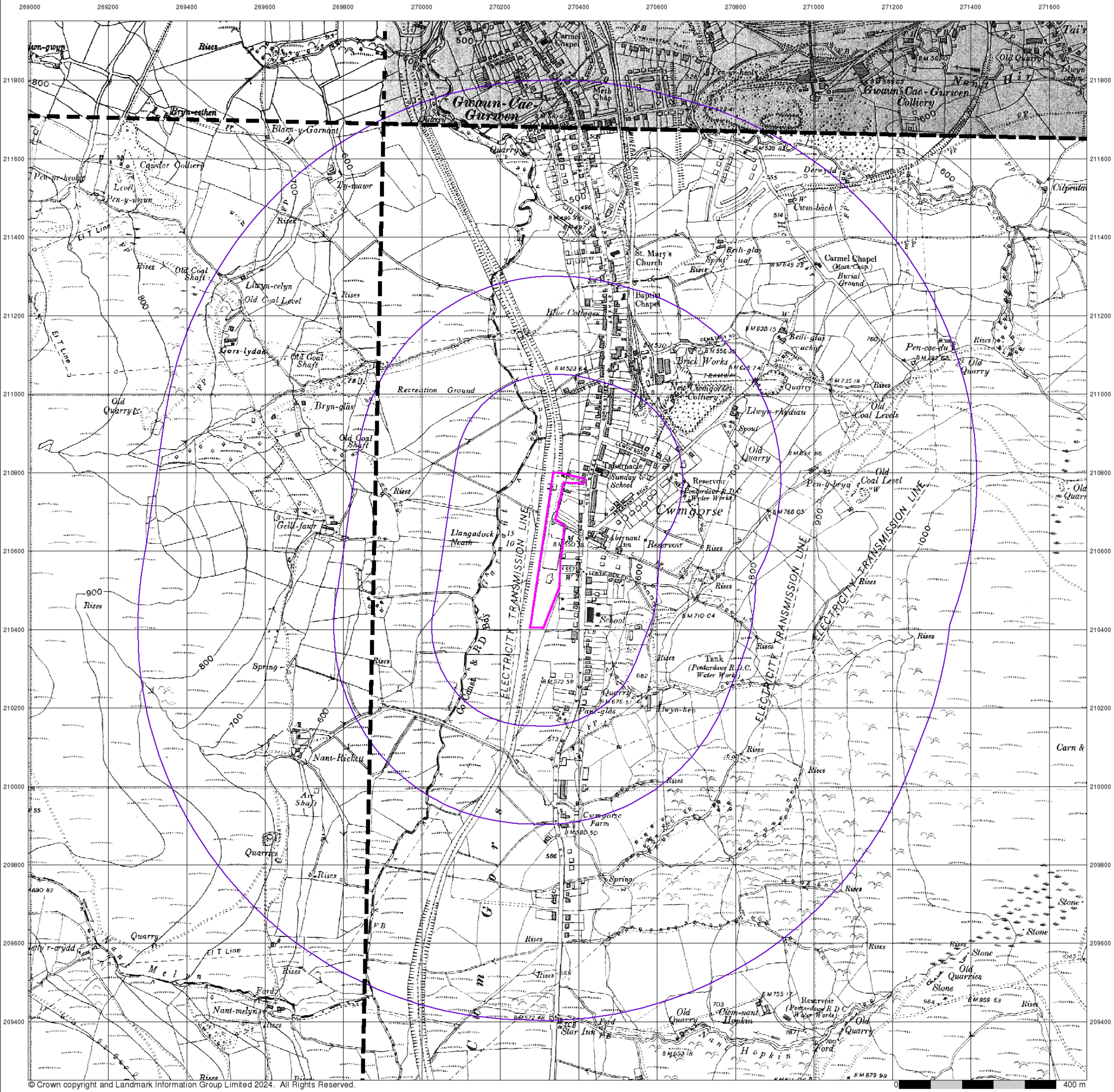
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Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	1000

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Intégral Géotechnique

Carmarthenshire

Published 1938 - 1953

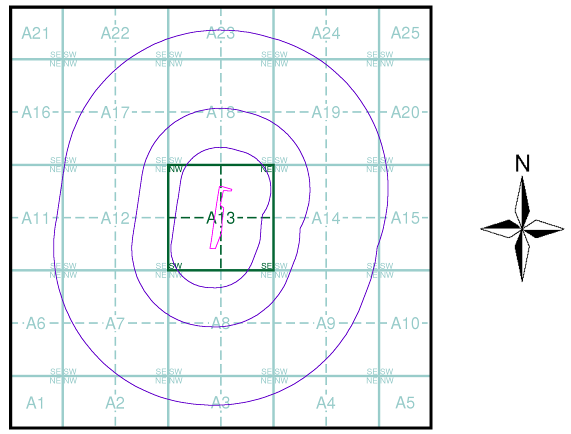
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

049NW 1938 1:10,560	049NE 1953 1:10,560
049SW 1953 1:10,560	049SE 1953 1:10,560

Historical Map - Slice A



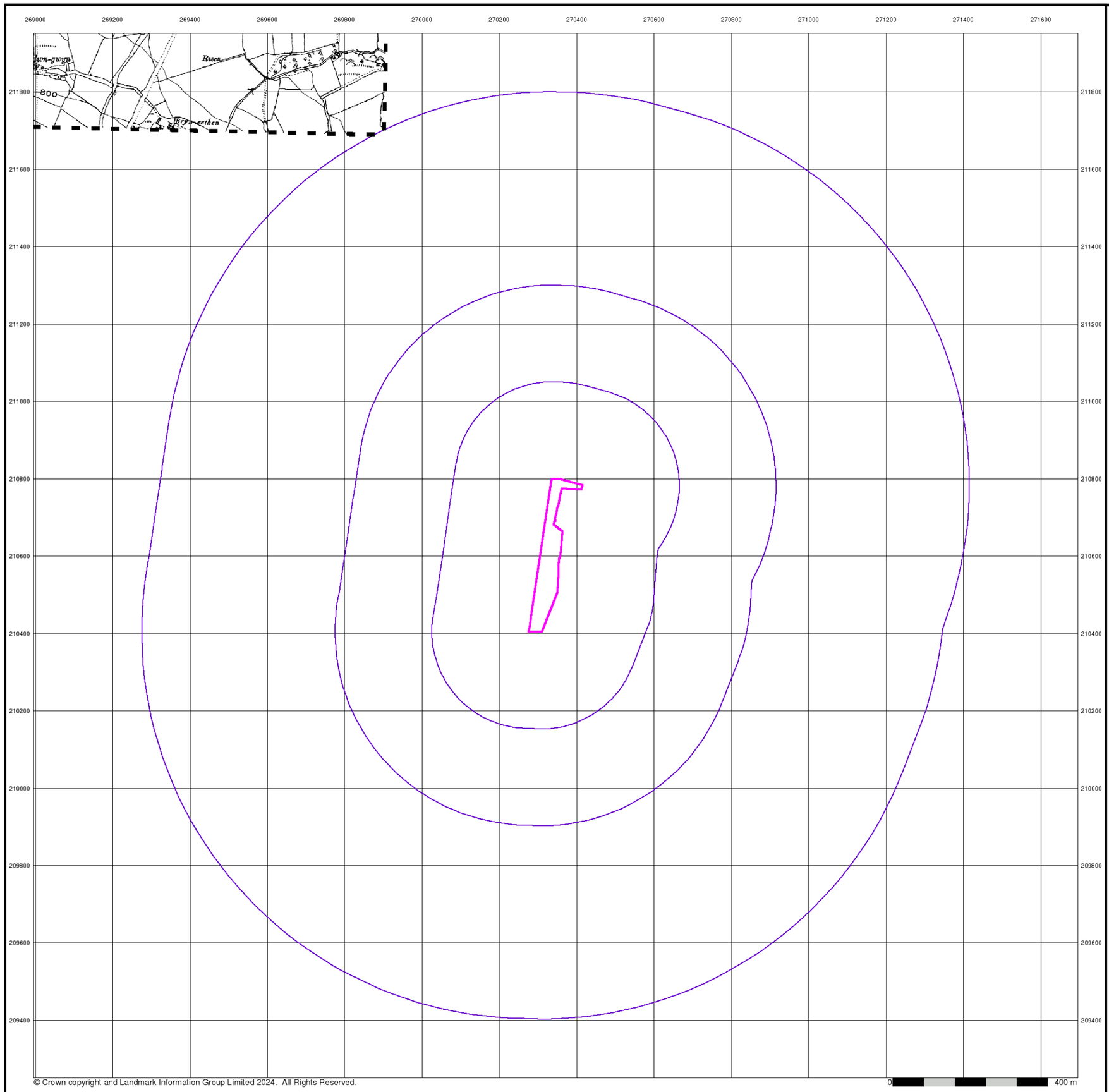
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Customer Ref: 14301/LP
National Grid Reference: 270340, 210610
Slice: A
Site Area (Ha): 1.78
Search Buffer (m): 1000

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Intégral Géotechnique

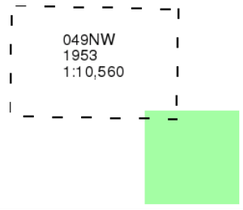
Carmarthenshire

Published 1953

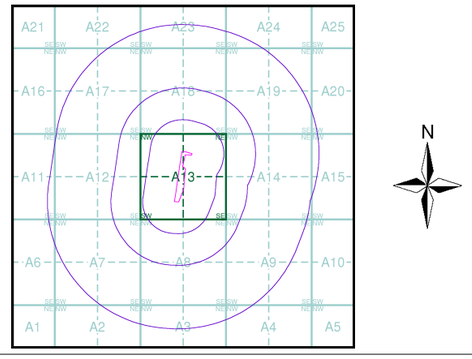
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

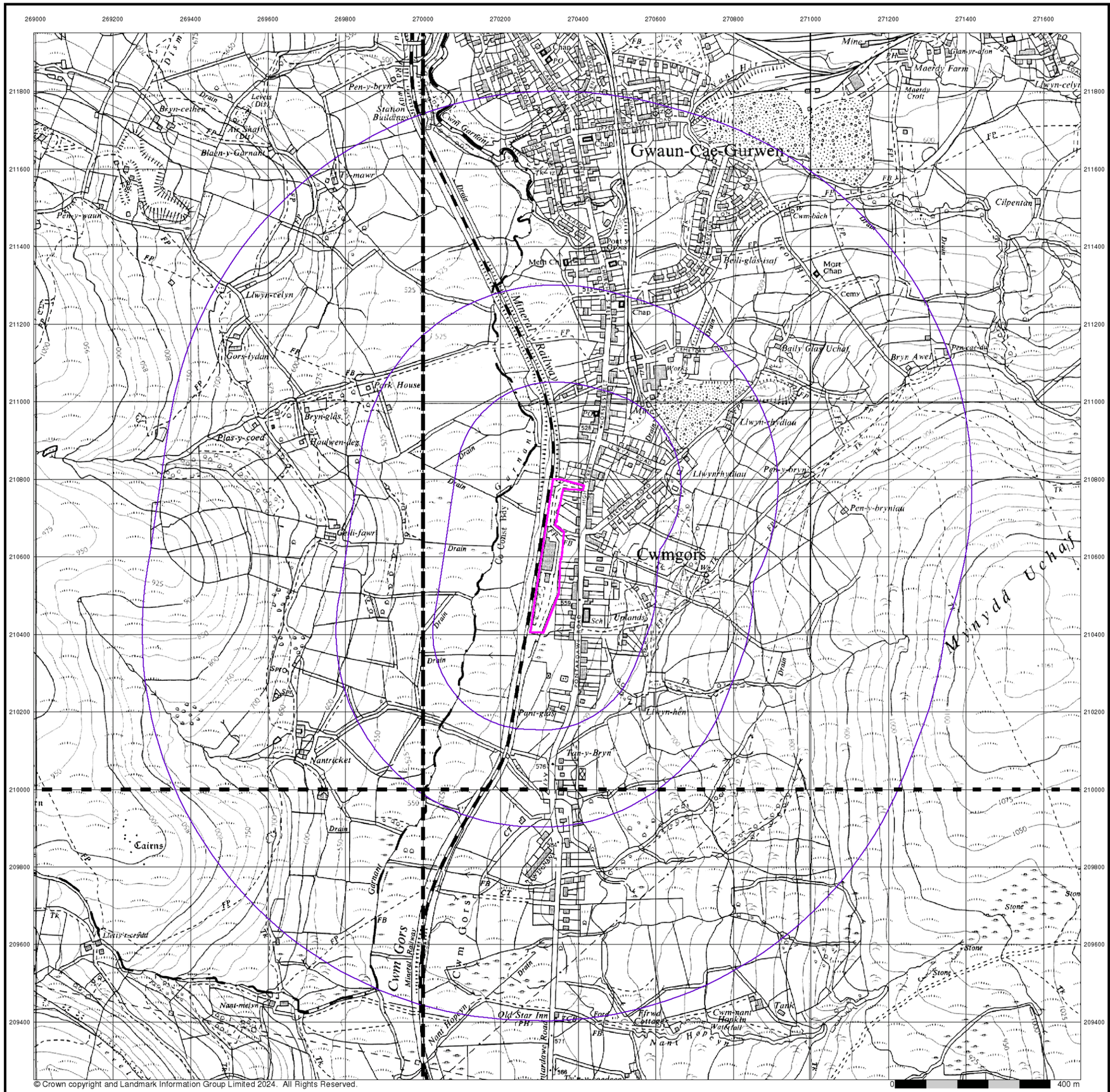
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Site Area (Ha):	1.78
Search Buffer (m):	1000

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Intégral Géotechnique

Ordnance Survey Plan

Published 1964 - 1965

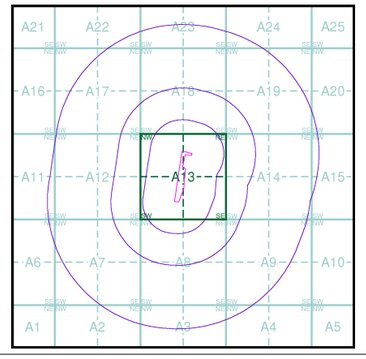
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SN61SE 1965 1:10,560	SN71SW 1965 1:10,560
SN60NE 1964 1:10,560	SN70NW 1965 1:10,560

Historical Map - Slice A



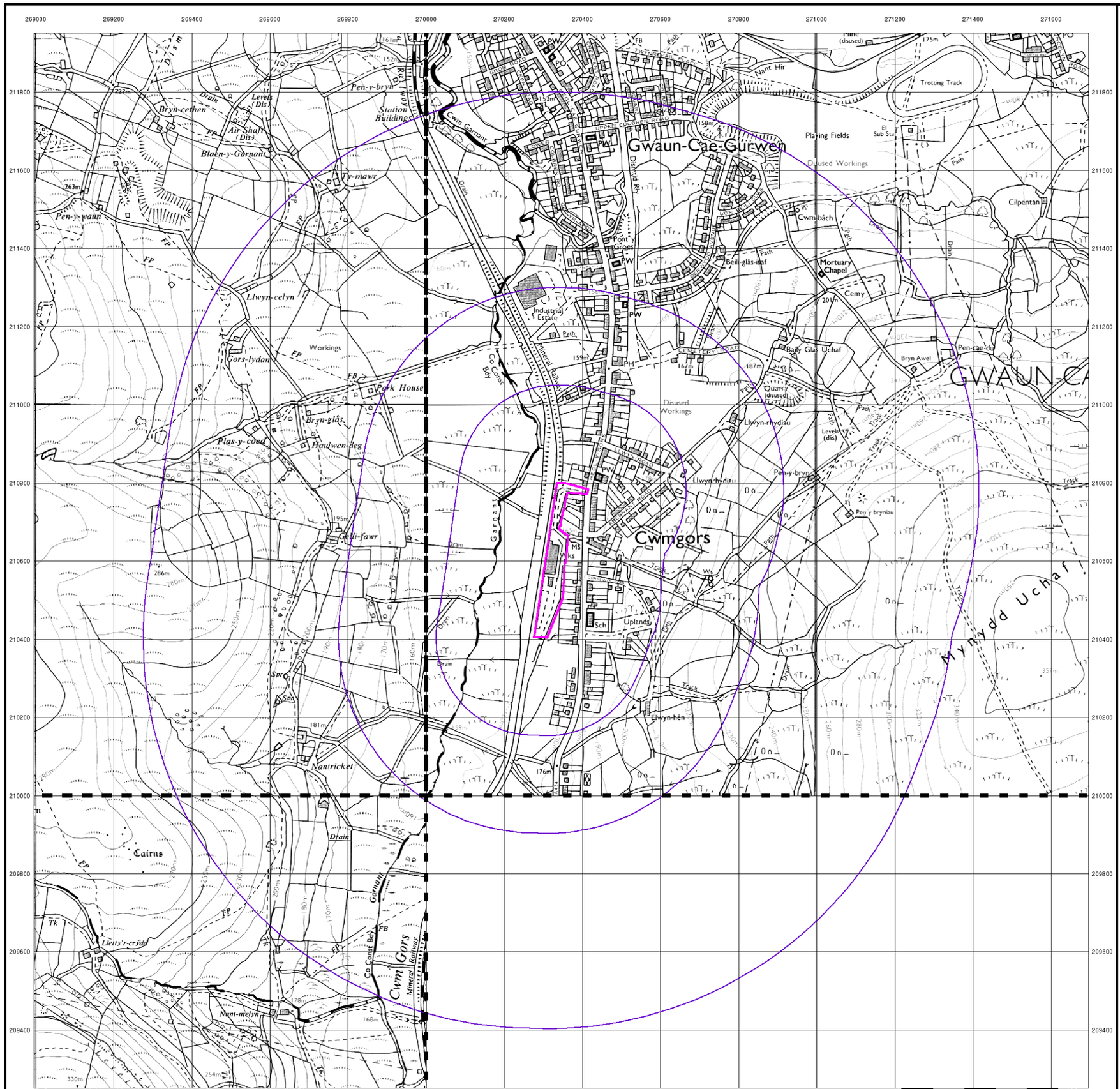
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Search Buffer (m):	1000

Site Details

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Intégral Géotechnique

Ordnance Survey Plan

Published 1987 - 1989

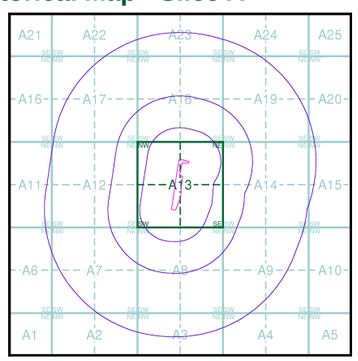
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SN61SE 1988 1:10,000
SN71SW 1989 1:10,000
SN60NE 1987 1:10,000

Historical Map - Slice A



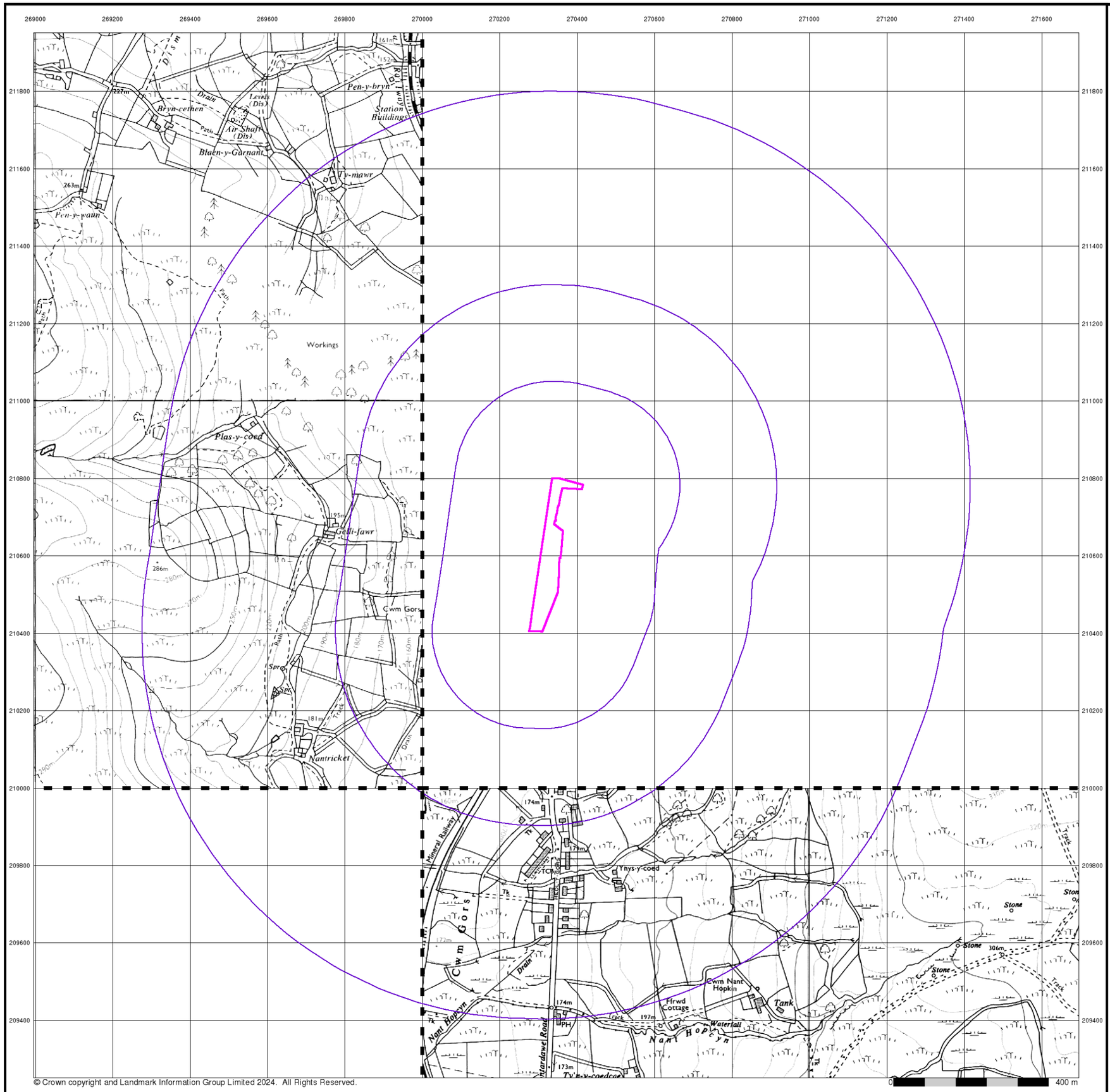
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Site Area (Ha):	1.78
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Site Details

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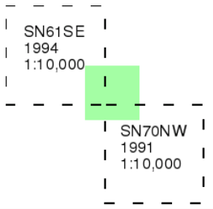
Ordnance Survey Plan

Published 1991 - 1994

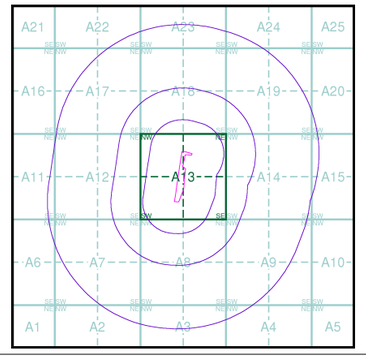
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



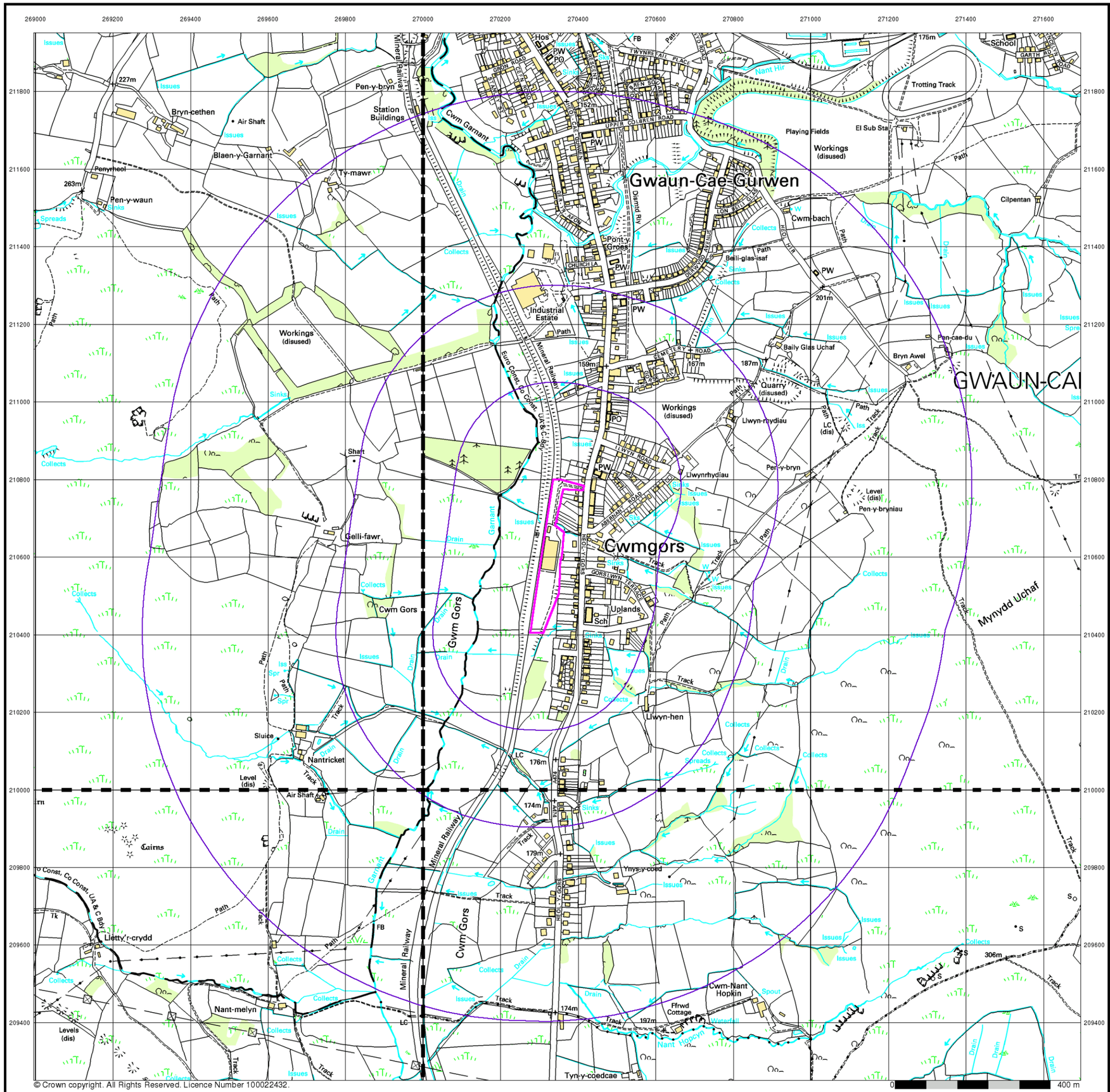
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Search Buffer (m):	1000

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Intégral Géotechnique

10k Raster Mapping

Published 1999

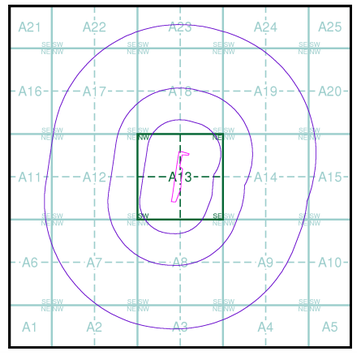
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SN61SE 1999 1:10,000	SN71SW 1999 1:10,000
SN60NE 1999 1:10,000	SN70NW 1999 1:10,000

Historical Map - Slice A



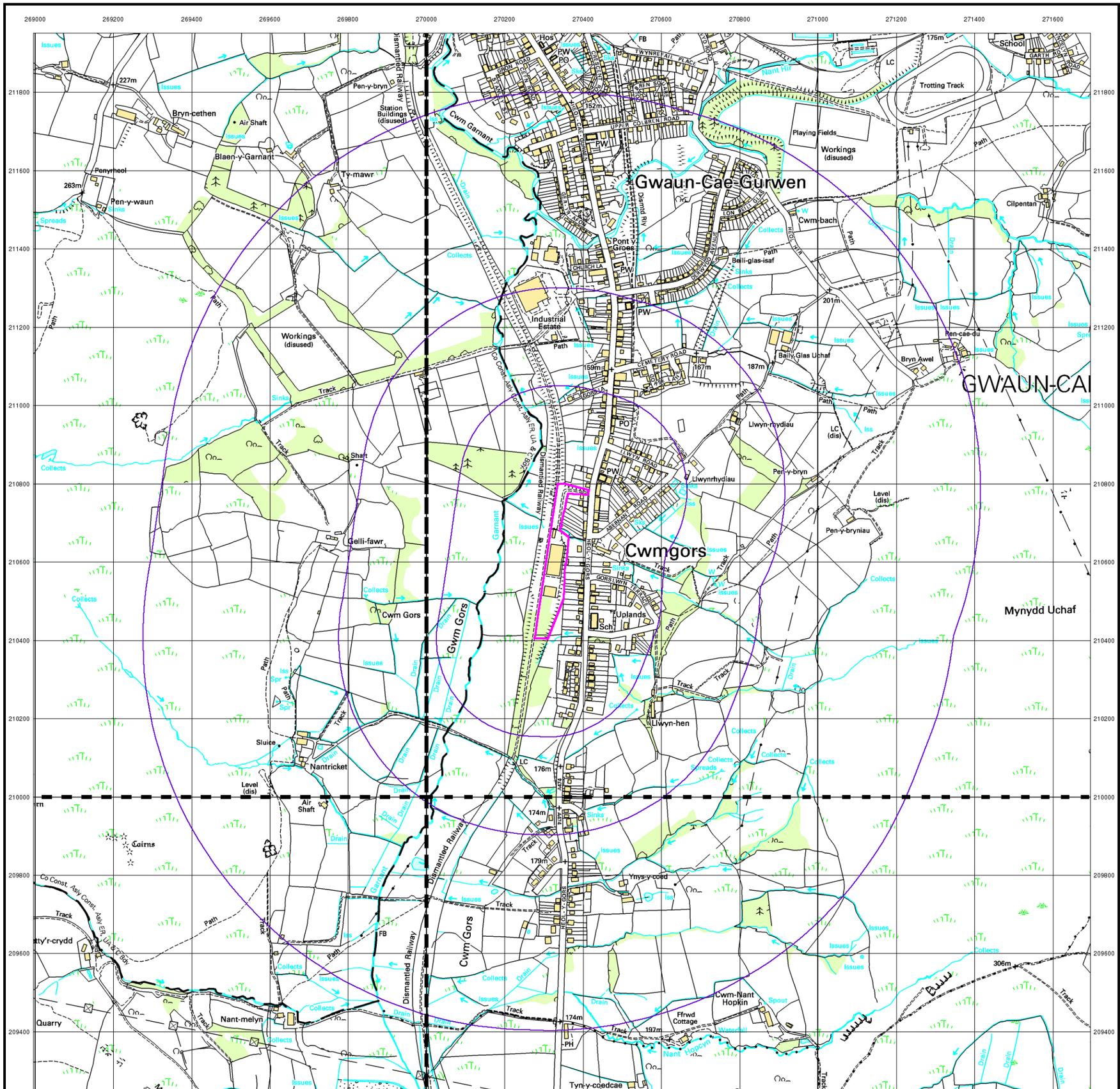
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Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details

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Intégral Géotechnique

10k Raster Mapping

Published 2006

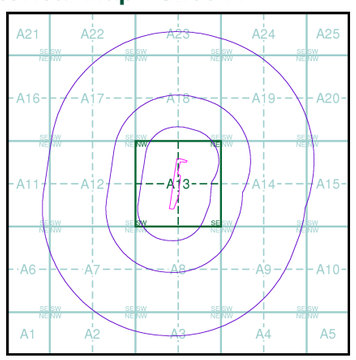
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SN61SE 2006 1:10,000	SN71SW 2006 1:10,000
SN60NE 2006 1:10,000	SN70NW 2006 1:10,000

Historical Map - Slice A



Order Details

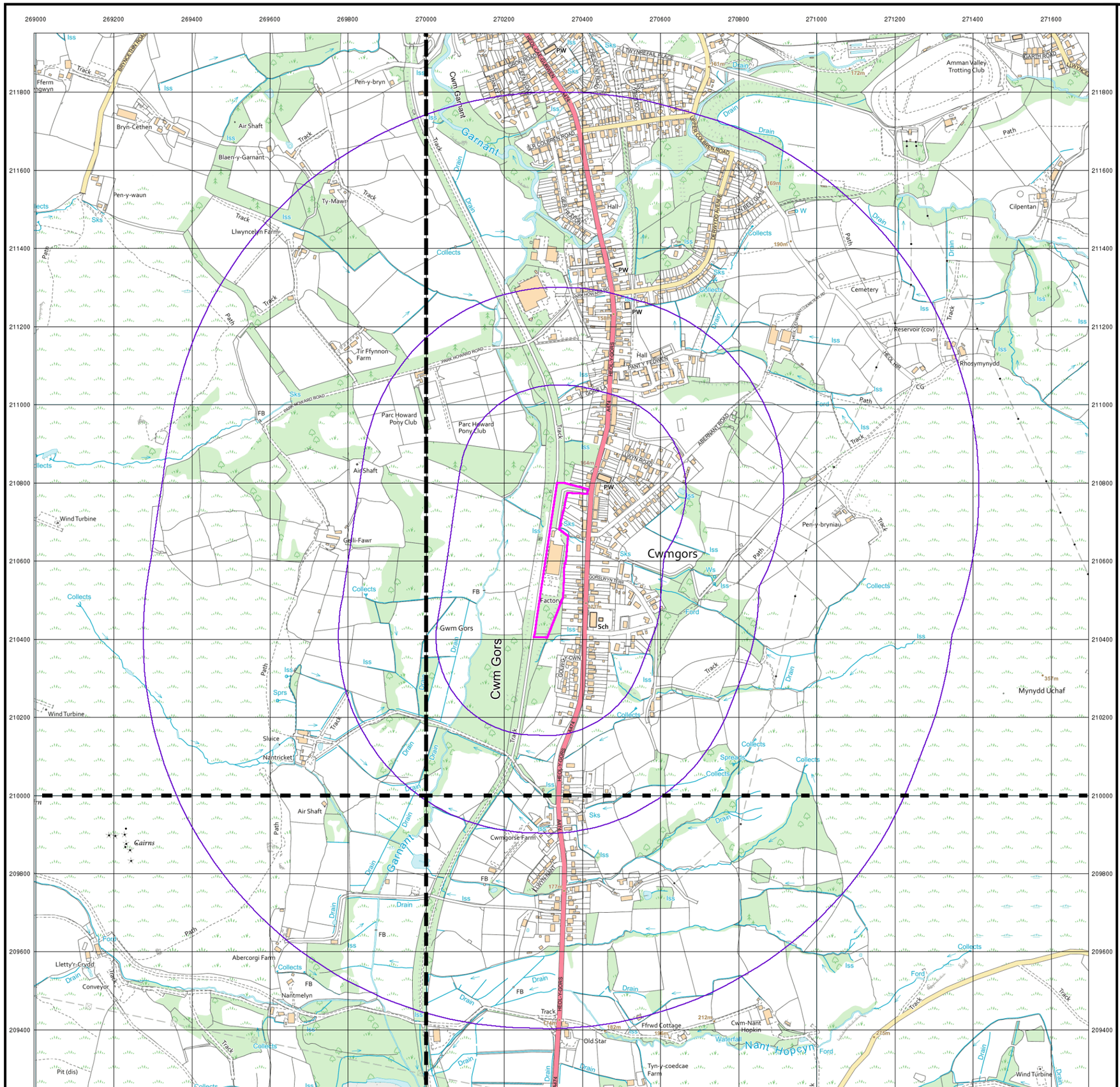
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Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details

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Intégral Géotechnique

VectorMap Local

Published 2023

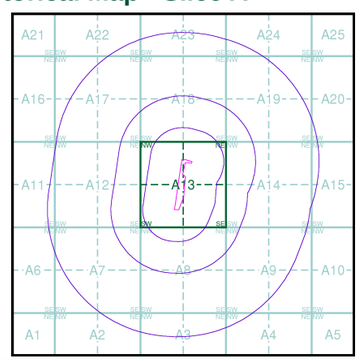
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SN61SE 2023 Variable	SN71SW 2023 Variable
SN60NE 2023 Variable	SN70NW 2023 Variable

Historical Map - Slice A



Order Details

Order Number:	333222872_1_1
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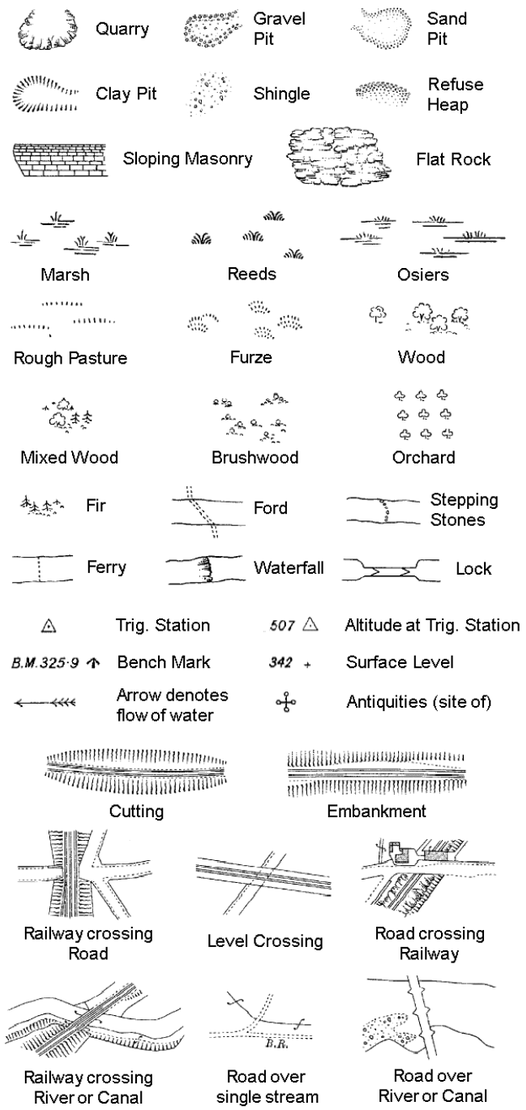
Site Details

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Historical Mapping Legends

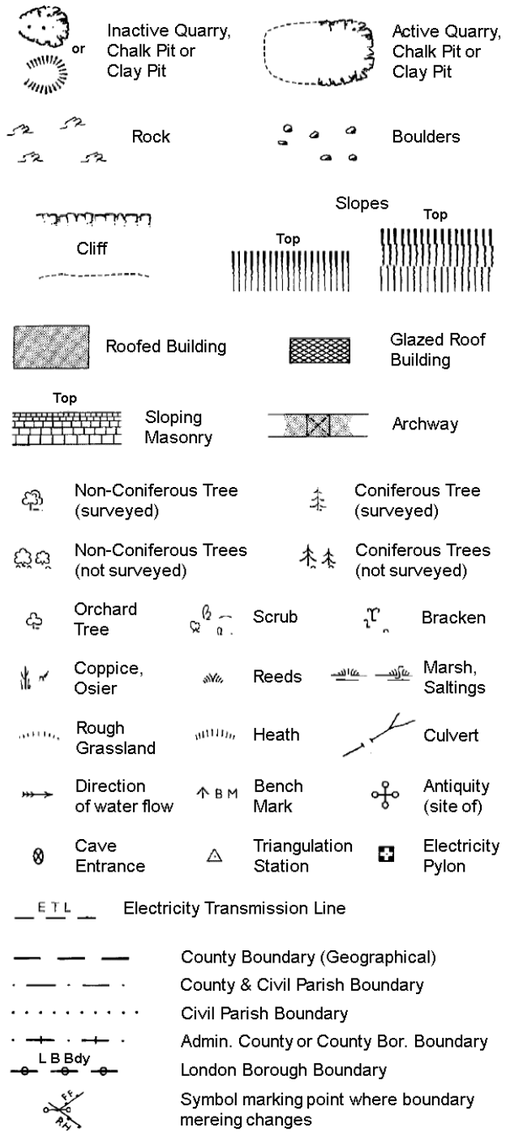
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

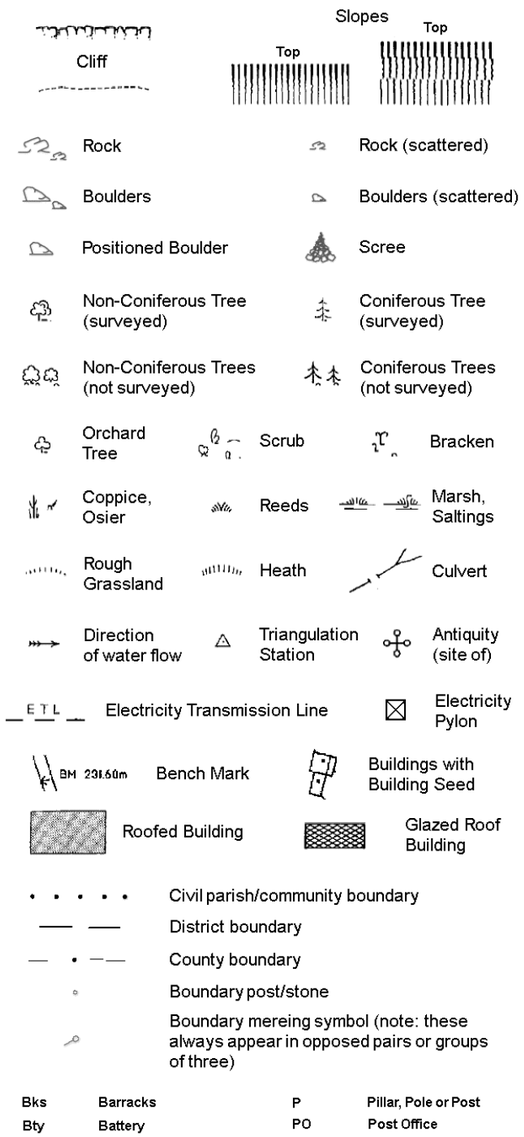
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

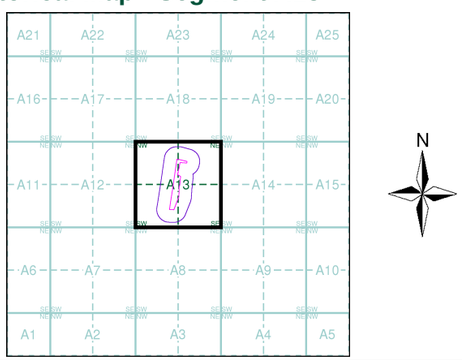
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Carmarthenshire	1:2,500	1878	2
Glamorganshire	1:2,500	1898	3
Carmarthenshire	1:2,500	1906	4
Carmarthenshire	1:2,500	1918	5
Ordnance Survey Plan	1:2,500	1962	6
Additional SIMs	1:2,500	1990	7
Large-Scale National Grid Data	1:2,500	1993	8
Large-Scale National Grid Data	1:2,500	1994	9
Historical Aerial Photography	1:2,500	2001	10

Historical Map - Segment A13



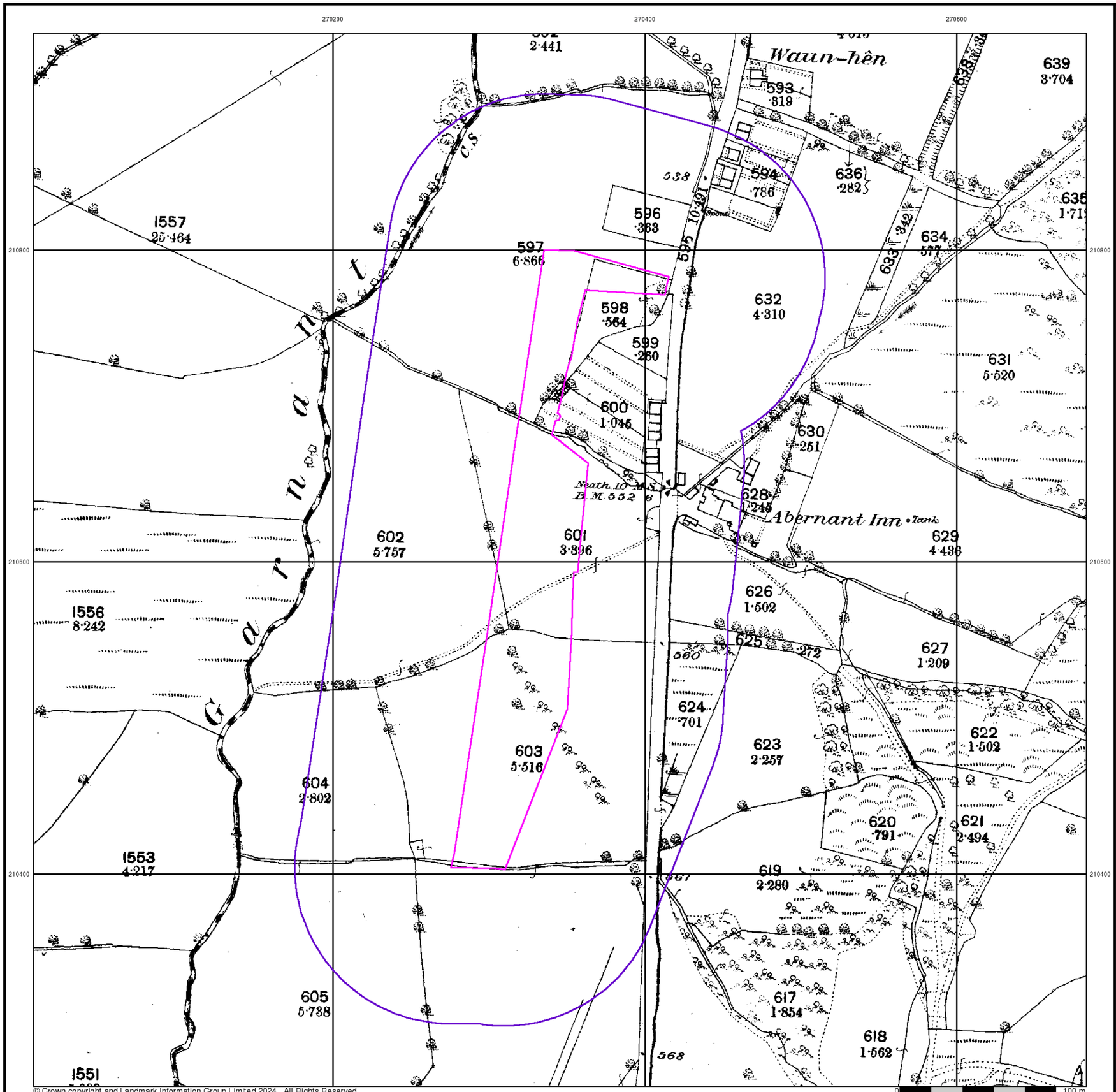
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Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	100

Site Details

Heol Y Gors, Cwmgors, Ammanford, SA18 1RS

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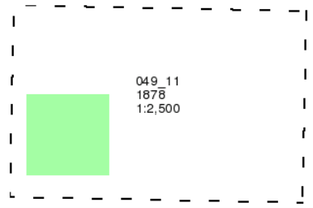
Carmarthenshire

Published 1878

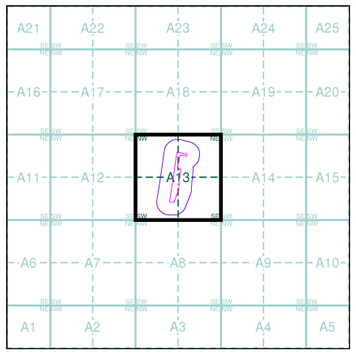
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



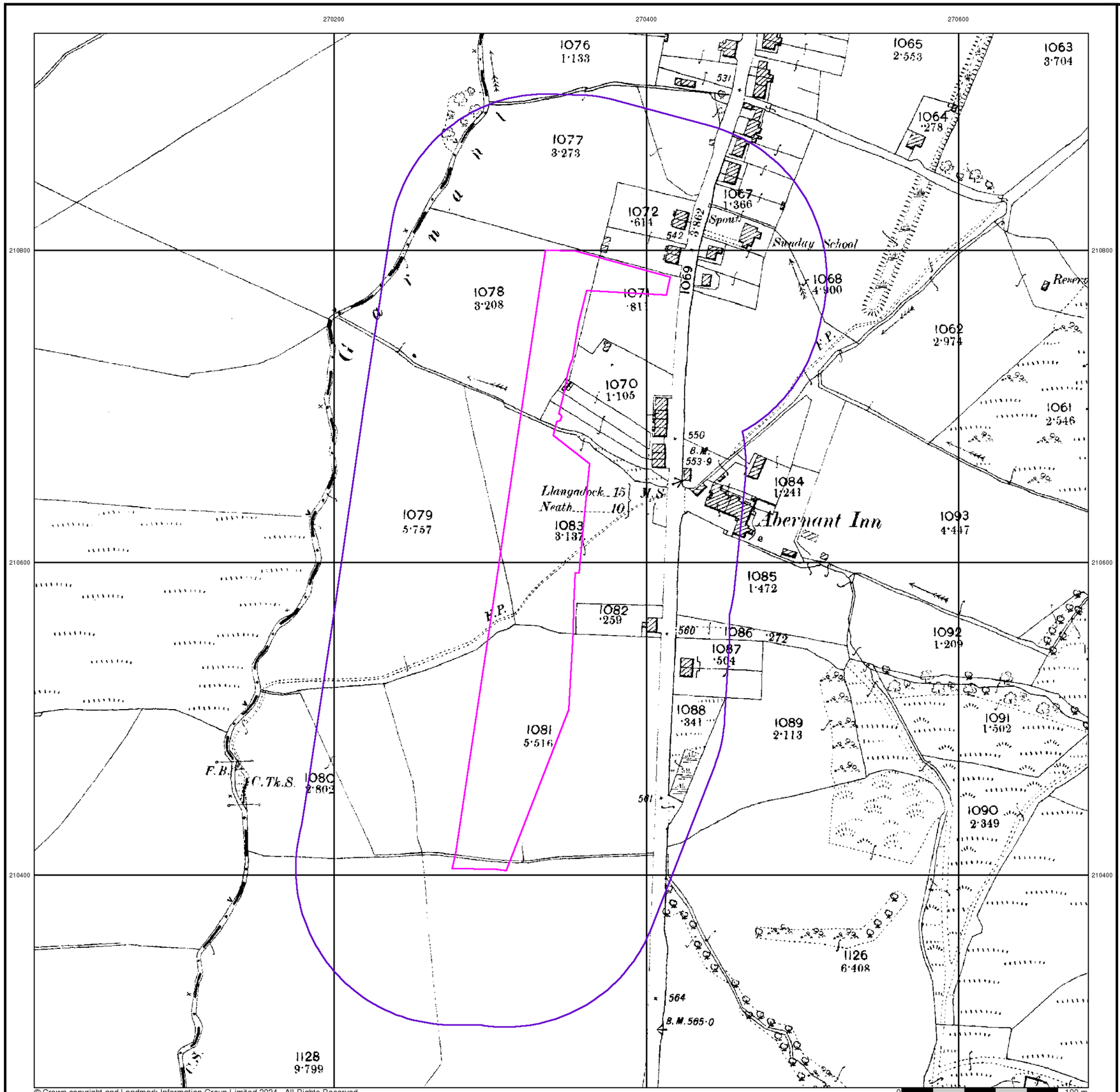
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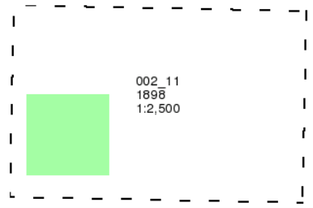
Glamorganshire

Published 1898

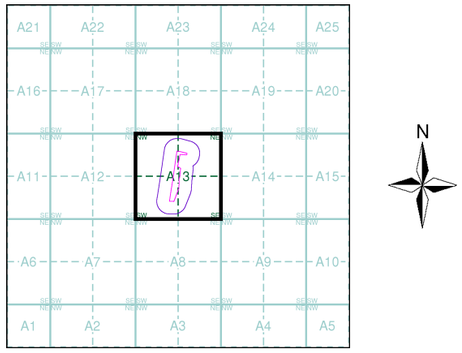
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



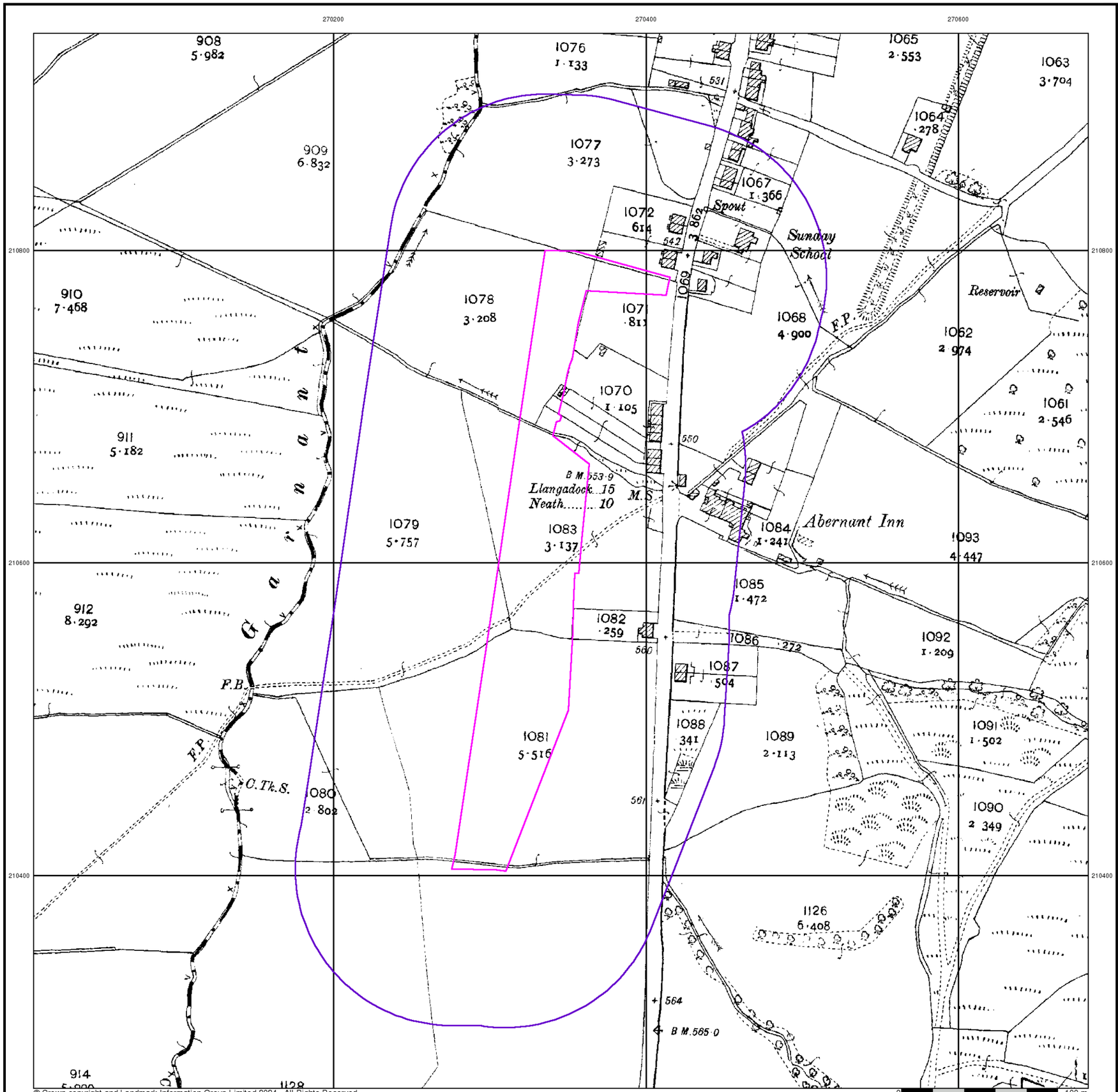
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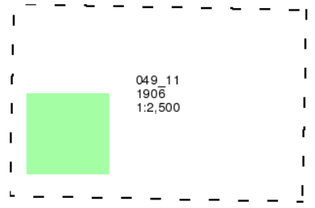
Carmarthenshire

Published 1906

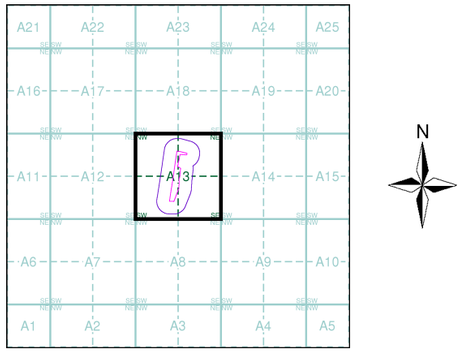
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



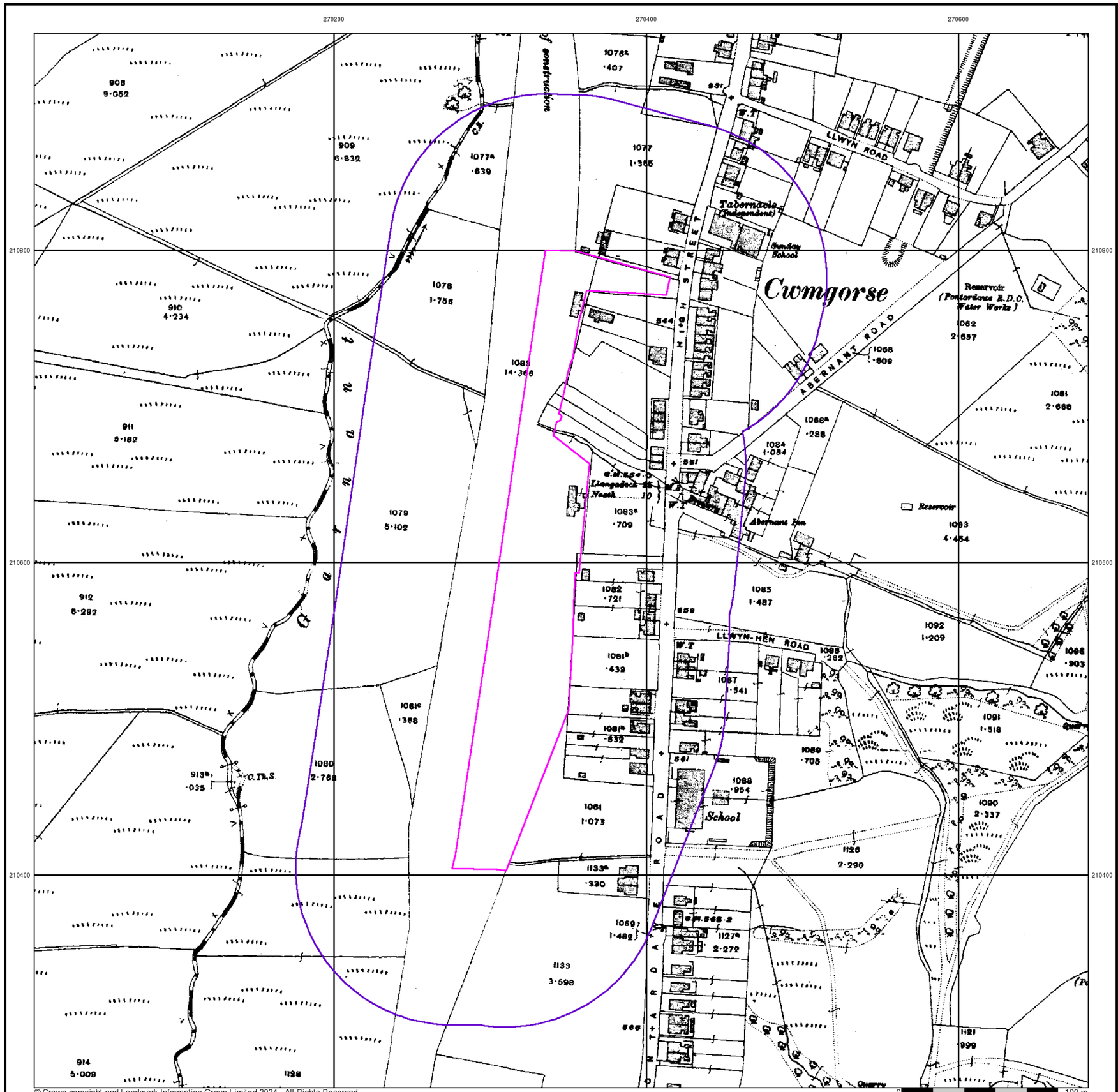
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Slice:	A
Site Area (Ha):	1.78
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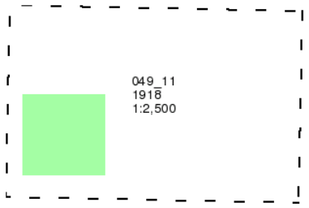
Carmarthenshire

Published 1918

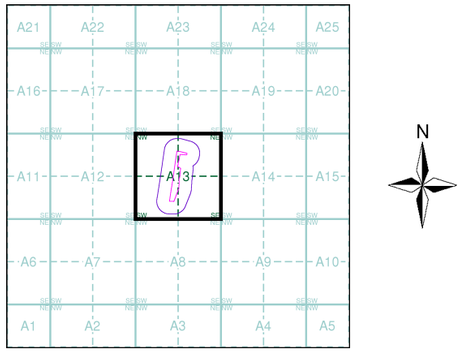
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



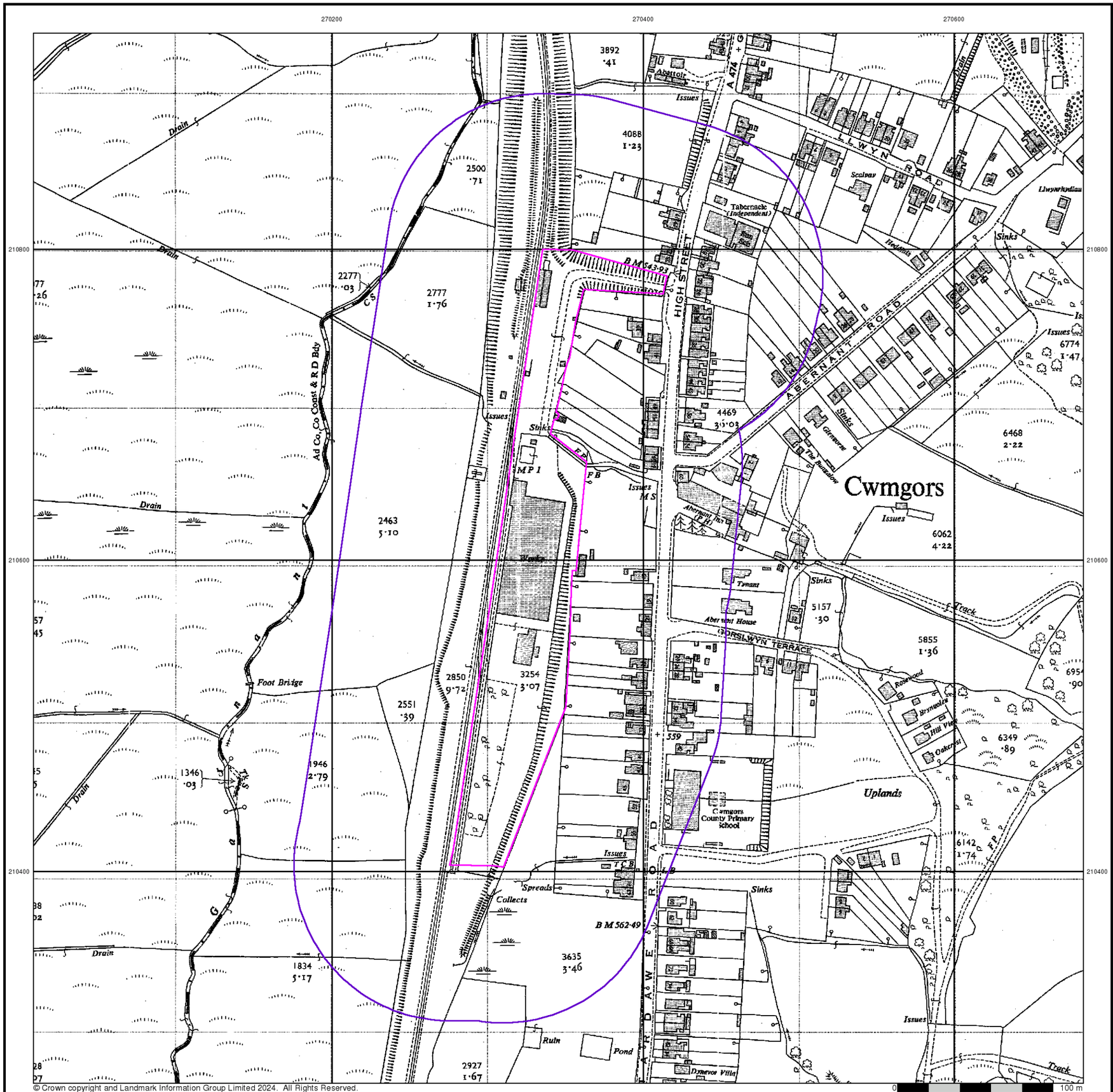
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Search Buffer (m):	100

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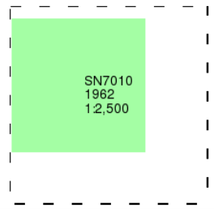
Ordnance Survey Plan

Published 1962

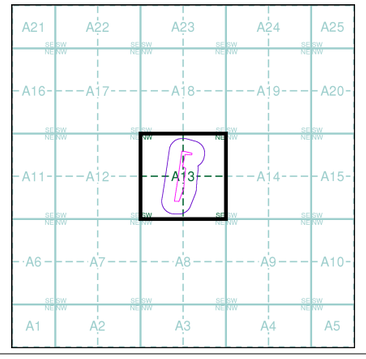
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



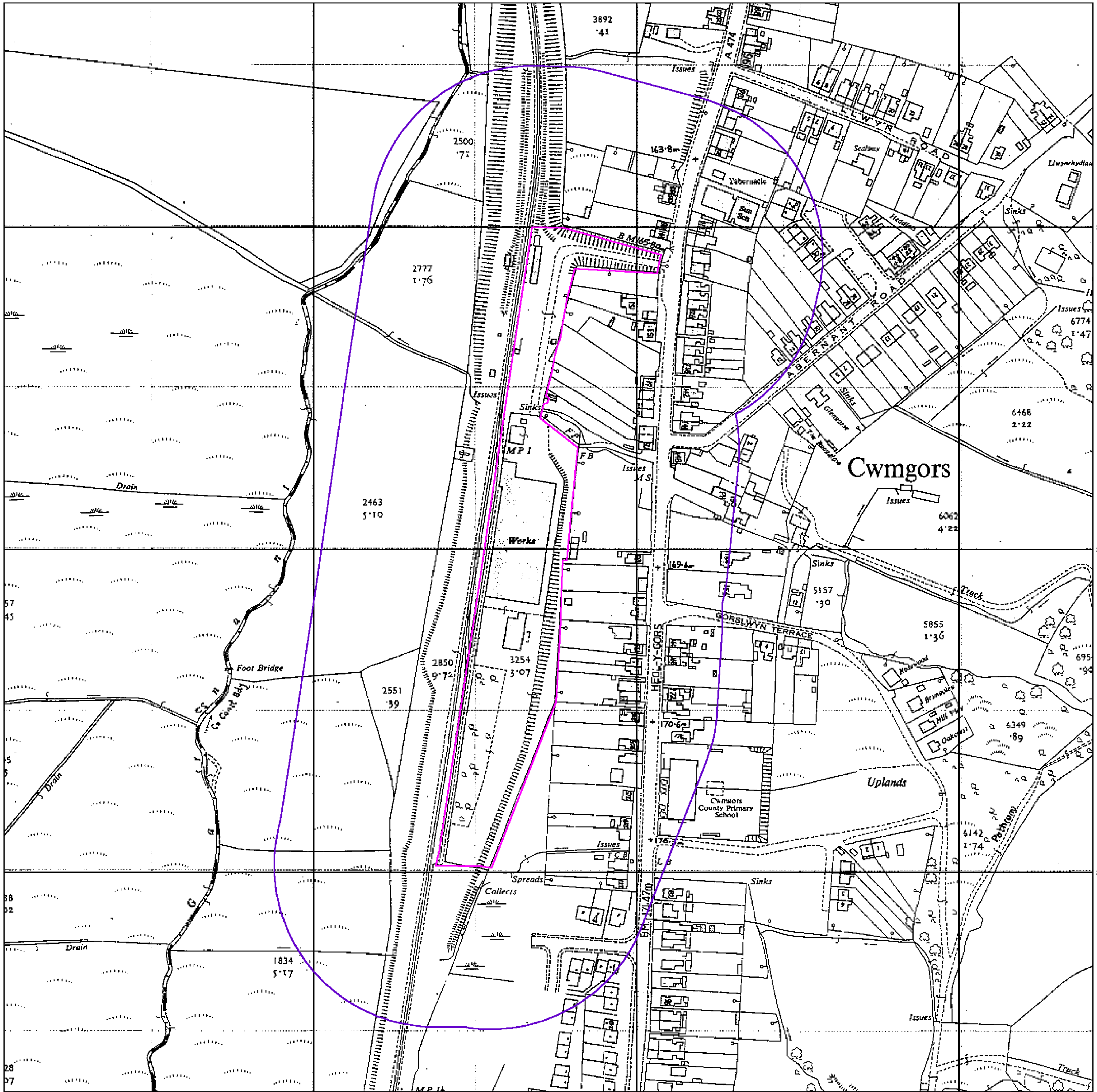
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Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	100

Site Details

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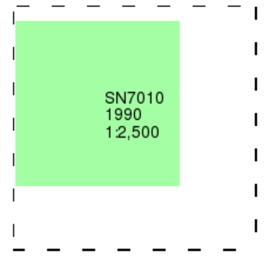
Additional SIMs

Published 1990

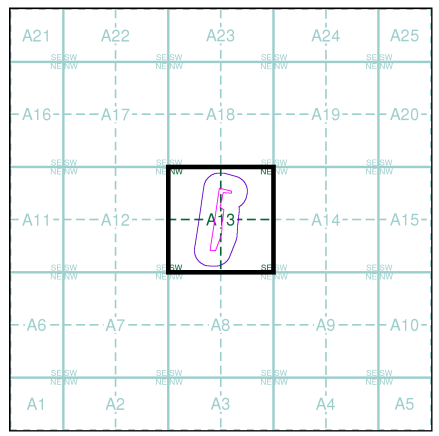
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

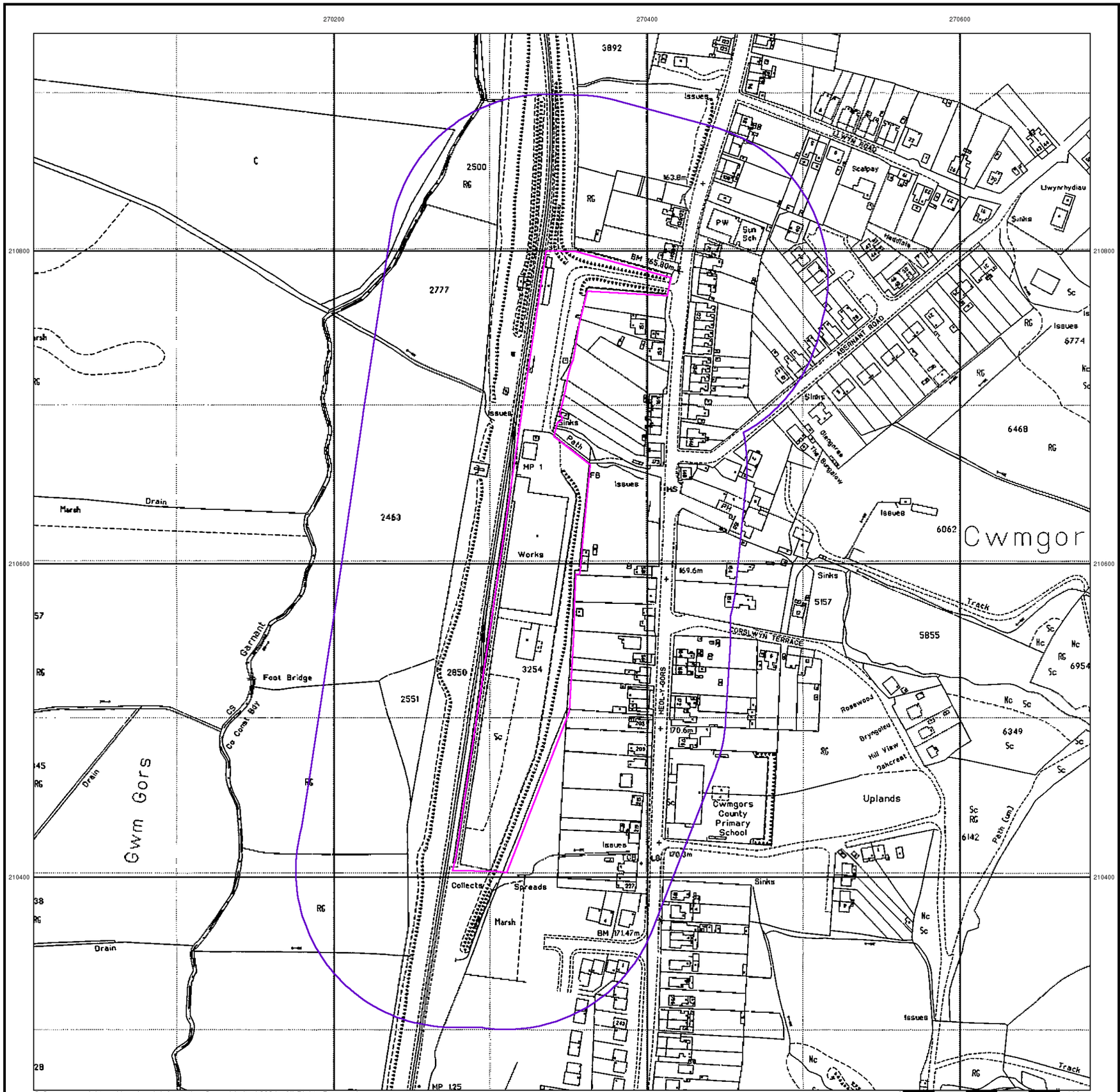
Order Number: 333222872_1_1
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Site Area (Ha): 1.78
Search Buffer (m): 100

Site Details

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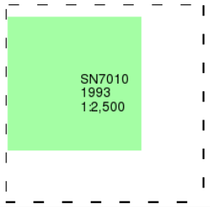
Large-Scale National Grid Data

Published 1993

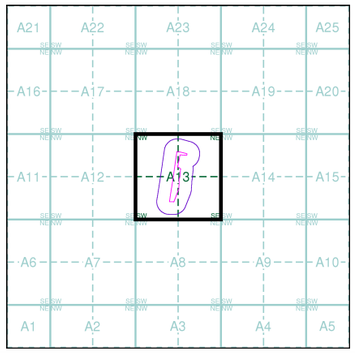
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



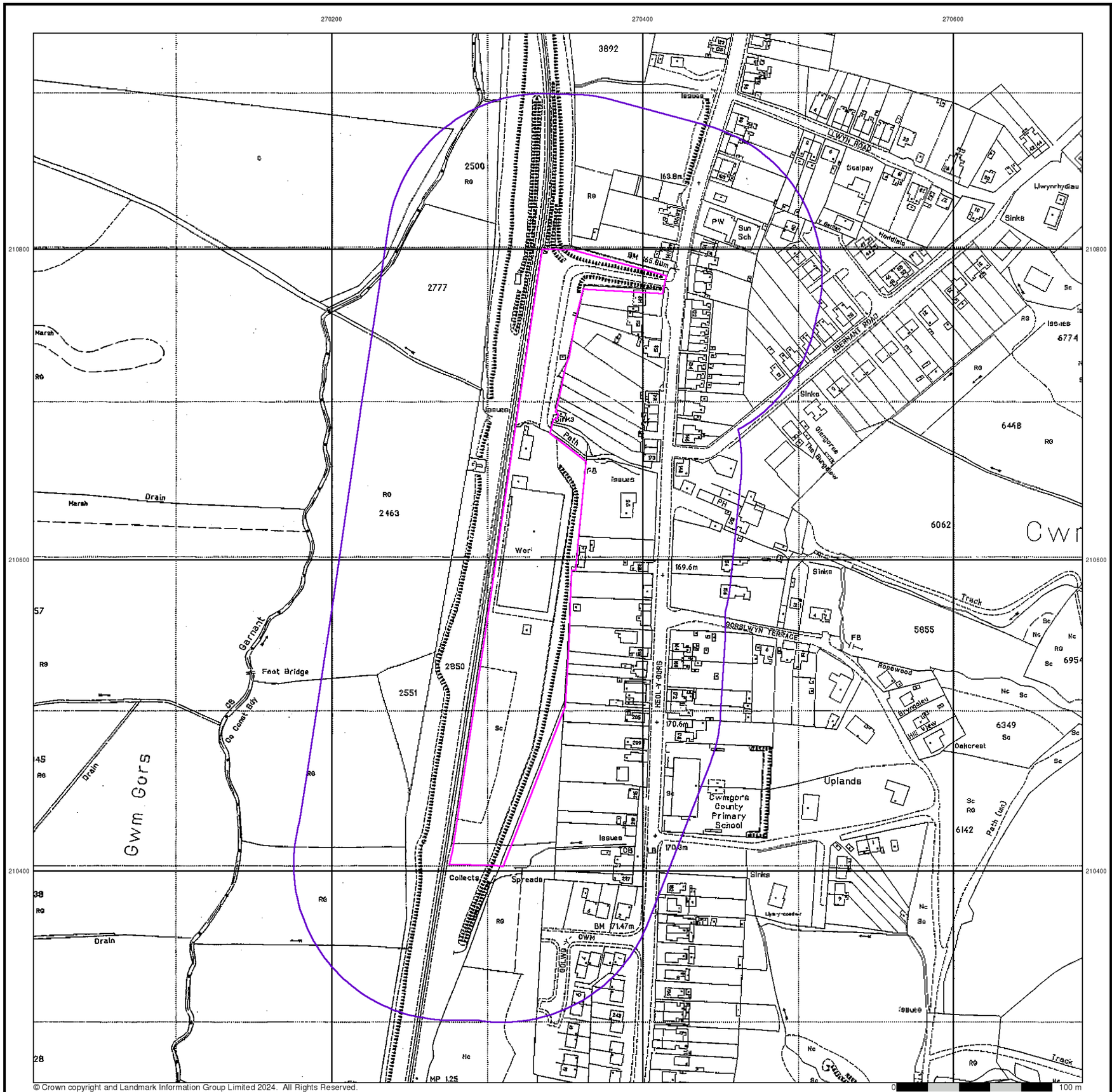
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Customer Ref:	14301/LP
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Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	100

Site Details

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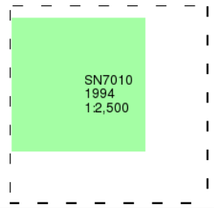
Large-Scale National Grid Data

Published 1994

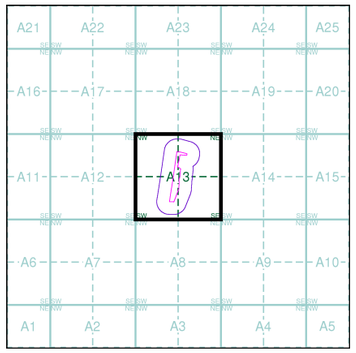
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	100

Site Details

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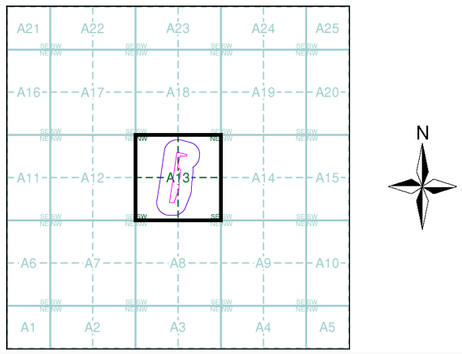
Intégral Géotechnique

Historical Aerial Photography

Published 2001

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	100

Site Details

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Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:
333222872_1_1

Customer Reference:
14301/LP

National Grid Reference:
270340, 210610

Slice:
A

Site Area (Ha):
1.78

Search Buffer (m):
1000

Site Details:

Heol Y Gors
Cwmgors
Ammanford
SA18 1RS

Client Details:

MR H Pritchard
Integral Geotechnique
Integral House
7 Beddau Way
Castlegate Business Park
Caerphilly
CF83 2AX

Intégral Géotechnique

Contents

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	6
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	7
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	10
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
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The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
Data Currency	13
Data Suppliers	14
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Report Version v53.0

Intégral Géotechnique

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Mining Instability	pg 4	Yes	n/a	n/a	n/a
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Non Coal Mining Areas of Great Britain	pg 4	Yes		n/a	n/a
Potential Mining Areas	pg 4	2		3	2
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Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
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Ground Stability Data (1:50,000)					
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Potential for Compressible Ground Stability Hazards	pg 10	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 10	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 10	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 10	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 10	Yes		n/a	n/a
Salt Mining Related Features					

Intégral Géotechnique

Summary

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Intégral Géotechnique

Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**BGS Recorded Mineral Sites** Site Name: Cwmgorse Slant Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261703 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	256	1	270574 210983
1	**BGS Recorded Mineral Sites** Site Name: New Cwmgorse Colliery Location: Cwmgors, Pontardawe, Neath Port Talbot Source: British Geological Survey, National Geoscience Information Service Reference: 28912 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Coal Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	295	1	270588 211021
2	**BGS Recorded Mineral Sites** Site Name: Pant-Glas Location: Cwmgors, Gwaun-Cae-Gurwen, Ammanford, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151400 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	257	1	270529 210269
3	**BGS Recorded Mineral Sites** Site Name: Llwynrhidau Level Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261700 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	264	1	270535 211017
4	**BGS Recorded Mineral Sites** Site Name: Llwyn-Rhidau Colliery Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261701 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	308	1	270642 210990
4	**BGS Recorded Mineral Sites** Site Name: Llwyn-Rhidau Colliery Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261702 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	317	1	270640 211006

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**BGS Recorded Mineral Sites** Site Name: Pant-Glas Location: Cwmgors, Gwaun-Cae-Gurwen, Ammanford, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151399 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Upper Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13SE (E)	327	1	270678 210509
6	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Bryn Location: Cwmgors, Gwaun-Cae-Gurwen, Ammanford, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151398 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	393	1	270794 210888
7	**BGS Recorded Mineral Sites** Site Name: Cwmgorse Occs Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261698 Type: Opencast **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	447	1	270000 211095
8	**BGS Recorded Mineral Sites** Site Name: Tyddyn-Cwm-Y-Gors Location: Cwmgors, Pontardawe, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 28913 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NE (S)	452	1	270365 209955
9	**BGS Recorded Mineral Sites** Site Name: Gelli-Fawr Coal Pit Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 102087 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	514	1	269823 210847
10	**BGS Recorded Mineral Sites** Site Name: Cwmgorse Brickworks Location: Cwmgors, Pontardawe, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 28910 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	539	1	270880 211055

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**BGS Recorded Mineral Sites** Site Name: Mountain Level Location: Cwmgors, Pontardawe, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 28911 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Coal Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	633	1	270983 211062
12	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Bryn Location: Gwaun-Cae-Gurwen, Ammanford, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151369 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	708	1	271122 210754
13	**BGS Recorded Mineral Sites** Site Name: Cwmgorse Occs Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261697 Type: Opencast **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	728	1	269695 211145
14	**BGS Recorded Mineral Sites** Site Name: Gors-Lydan Coal Pit Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 102086 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	750	1	269646 211093
15	**BGS Recorded Mineral Sites** Site Name: Pont Y Groes Location: Glanaman, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 102214 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A23SW (N)	823	1	270257 211619
16	**BGS Recorded Mineral Sites** Site Name: Nant-Rickett Quarry Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 100805 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	861	1	269605 209865

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**BGS Recorded Mineral Sites** Site Name: Nant-Rickett Quarry Location: Cwmgors, Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 261687 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	872	1	269630 209819
18	**BGS Recorded Mineral Sites** Site Name: Llwyn-Celyn Coal Level Location: Cwmgors, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 102090 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Lower Welsh Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	923	1	269502 211196
19	**BGS Recorded Mineral Sites** Site Name: Ty-Isaf Location: Gwaun-Cae-Gurwen, Ammanford, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151353 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A23SW (N)	926	1	270079 211689
20	**BGS Recorded Mineral Sites** Site Name: Llwyn-Celyn Coal Pit Location: Bryn-Cethen, Garnant, Ammanford, Carmarthenshire Source: British Geological Survey, National Geoscience Information Service Reference: 102085 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	992	1	269486 211312
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (N)	0	2	270336 210606
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (N)	0	3	270336 210606
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	270394 210535
21	**Potential Mining Areas** Name: Cawdor New Ceased Operation: Not Supplied Commodity: Coal; Seam unnamed Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: C. Conway Williams, Queen Street, Neath	A13NW (W)	0	4	270281 210607

Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Potential Mining Areas** Name: Llwynhedie Ceased Operation: 1867 Commodity: Coal; Red Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: Branfill and Haines, 9 Picton Place, Swansea.	A13NW (N)	0	4	270336 210606
23	**Potential Mining Areas** Name: Llangiwg Ceased Operation: Not Supplied Commodity: Coal and Ironstone Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A14NW (NE)	287	4	270689 210867
24	**Potential Mining Areas** Name: Mountain (Llwynhedie) Ceased Operation: 1882 Commodity: Coal; Red Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: Branfill and Haines, 9 Picton Place, Swansea.	A14NW (NE)	287	4	270689 210867
25	**Potential Mining Areas** Name: Bettws Ceased Operation: Not Supplied Commodity: Coal Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A12NE (W)	408	4	269879 210615
26	**Potential Mining Areas** Name: Wernbwll Ceased Operation: 1934 Commodity: Coal; Red Reference: 11267 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A14NE (E)	680	4	271091 210859
27	**Potential Mining Areas** Name: Garnant Ceased Operation: 1847-1895 Commodity: Coal; Big; Trigloin Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: Blaina and Raven Anthracite Collieries Ltd., Garnant.	A17NW (NW)	979	4	269491 211295

Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Embankment First Map Published Date: 1962 Last Map Published Date: Not Applicable	A13NE (N)	0	-	270347 210799

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**Air Shafts** Use: Not Supplied Date of Mapping: 1891 - 1921	A18SE (NE)	310	-	270647 210988
30	**Air Shafts** Use: Not Supplied Date of Mapping: 1953	A7NE (SW)	678	-	269733 209999
31	**Air Shafts** Use: Not Supplied Date of Mapping: 1891	A19SE (NE)	776	-	271137 211067
32	**General Quarrying** Use: Not Supplied Date of Mapping: 1921 - 1953	A8NE (SE)	266	-	270531 210255
33	**General Quarrying** Use: Not Supplied Date of Mapping: 1921	A13SE (E)	327	-	270676 210489
34	**General Quarrying** Use: Not Supplied Date of Mapping: 1883	A14NW (NE)	391	-	270793 210882
35	**General Quarrying** Use: Not Supplied Date of Mapping: 1907	A8NE (S)	465	-	270399 209947
36	**General Quarrying** Use: Not Supplied Date of Mapping: 1953 - 1965	A19SW (NE)	477	-	270832 211015
37	**General Quarrying** Use: Not Supplied Date of Mapping: 1891 - 1953	A7SW (SW)	825	-	269628 209893
38	**General Quarrying** Use: Not Supplied Date of Mapping: 1921 - 1953	A23SW (N)	832	-	270252 211627
39	**General Quarrying** Use: Not Supplied Date of Mapping: 1901 - 1953	A7SW (SW)	861	-	269646 209817
40	**General Quarrying** Use: Not Supplied Date of Mapping: 1921 - 1953	A23SW (N)	926	-	270071 211687
41	**General Quarrying** Use: Not Supplied Date of Mapping: 1921	A20SW (NE)	995	-	271362 211088
42	**Heap, unknown constituents** Use: Not Supplied Date of Mapping: 1965	A24SW (N)	942	-	270734 211669
43	**Mineral Railway** Use: Not Supplied Date of Mapping: 1953 - 1989	A13NW (W)	2	-	270303 210611
44	**Mineral Railway** Use: Not Supplied Date of Mapping: 1953	A13SW (S)	111	-	270307 210292
45	**Mineral Railway** Use: Not Supplied Date of Mapping: 1891	A18SE (NE)	344	-	270649 211035
46	**Mineral Railway** Use: Not Supplied Date of Mapping: 1953	A19SW (NE)	383	-	270694 211044
47	**Mineral Railway** Use: Not Supplied Date of Mapping: 1921 - 1965	A18SE (N)	446	-	270524 211215
48	**Mineral Railway** Use: Not Supplied Date of Mapping: 1891	A19SW (NE)	539	-	270814 211147
49	**Mineral Railway** Use: Not Supplied Date of Mapping: 1953 - 1987	A8SW (S)	718	-	270027 209732

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	**Mineral Railway** Use: Not Supplied Date of Mapping: 1921 - 1965	A23SE (N)	889	-	270503 211676
51	**Mineral Railway** Use: Not Supplied Date of Mapping: 1891	A23SE (N)	922	-	270649 211674
52	**Mineral Railway** Use: Not Supplied Date of Mapping: 1953 - 1989	A22SE (N)	944	-	270006 211685
53	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1891 - 1965	A13NE (NE)	172	-	270521 210918
54	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1891 - 1901	A12NE (NW)	502	-	269835 210850
55	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1891	A19SW (NE)	552	-	270874 211090
56	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1891	A19SE (NE)	681	-	271077 210943
57	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1883	A14NE (E)	714	-	271128 210739
58	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1891	A17SW (NW)	736	-	269661 211095
59	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1907	A17SW (NW)	914	-	269535 211240
60	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1908 - 1953	A24SW (N)	923	-	270740 211647
61	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1891 - 1901	A17NW (NW)	983	-	269496 211312
62	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13NE (NE)	172	-	270521 210918
63	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A8NE (SE)	266	-	270531 210255
64	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13SE (E)	327	-	270676 210489
65	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18SE (NE)	372	-	270593 211109
66	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14NW (NE)	391	-	270793 210882
67	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NE (S)	465	-	270399 209947
68	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A12NE (NW)	502	-	269835 210850
69	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A19SW (NE)	552	-	270874 211090
70	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A7NE (SW)	678	-	269733 209999

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14NE (E)	714	-	271128 210739
72	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A17SW (NW)	736	-	269661 211095
73	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A19SE (NE)	776	-	271137 211067
74	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A23SW (N)	832	-	270252 211627
75	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A7SW (SW)	861	-	269646 209817
76	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A17SW (NW)	914	-	269535 211240
77	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A24SW (N)	923	-	270740 211647
78	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A23SW (N)	926	-	270071 211687
79	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A17NW (NW)	983	-	269496 211312
80	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A20SW (NE)	995	-	271362 211088
81	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A14SW (SE)	392	-	270709 210346
82	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A18NE (N)	521	-	270535 211290
83	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A18NE (N)	607	-	270546 211375
84	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A24SW (NE)	967	-	270835 211654

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
85	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	270224 210624
86	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	270224 210624
87	**Potential for Compressible Ground Stability Hazards** Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	93	1	270177 210633
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
88	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
89	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	98	1	270484 210545
90	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	103	1	270255 210304
91	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	178	1	270507 210376
92	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606
93	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	270224 210624
94	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	93	1	270177 210633
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	191	1	270550 210542
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A18SW (N)	229	1	270224 210999
95	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	270336 210606

Historical Map List

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Carmarthenshire	049_11	1878
Glamorganshire	002_11	1898
Carmarthenshire	049_11	1906
Carmarthenshire	049_11	1918
Ordnance Survey Plan	SN7010	1962

Intégral Géotechnique

Historical Map List

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Glamorganshire	002_00	1883
Carmarthenshire	049_NE	1891
Carmarthenshire	049_NW	1891
Carmarthenshire	049_SE	1891
Carmarthenshire	049_SW	1891
Glamorganshire	002_NE	1900
Glamorganshire	002_SE	1900
Glamorganshire	002_NW	1901
Glamorganshire	002_SW	1901
Carmarthenshire	049_NW	1907
Carmarthenshire	049_SE	1907
Carmarthenshire	049_SW	1907
Carmarthenshire	049_NE	1908
Glamorganshire	002_NE	1921
Glamorganshire	002_SE	1921
Glamorganshire	002_SW	1921
Carmarthenshire	049_NE	1921
Carmarthenshire	049_NW	1921
Carmarthenshire	049_SE	1921
Carmarthenshire	049_SW	1921
Glamorganshire	002_NW	1938
Carmarthenshire	049_NE	1953
Carmarthenshire	049_NW	1953
Carmarthenshire	049_SE	1953
Carmarthenshire	049_SW	1953
Ordnance Survey Plan	SN60NE	1964
Ordnance Survey Plan	SN61SE	1965
Ordnance Survey Plan	SN70NW	1965
Ordnance Survey Plan	SN71SW	1965
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	SN60NE	1987
Ordnance Survey Plan	SN71SW	1989
Ordnance Survey Plan	SN70NW	1991
Ordnance Survey Plan	SN61SE	1994

Data Currency

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	June 2023	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Man Made Mining Cavities Stantec UK Ltd	December 2022	Bi-Annually
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities Stantec UK Ltd	December 2022	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	**Version**	**Update Cycle**
Subterranean Features Landmark Information Group Limited	July 2023	Bi-Annually
Ground Stability Data (1:50,000)	**Version**	**Update Cycle**
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	 As notified
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Brine Subsidence Solution Area Johnson Poole & Bloomer	December 2020	

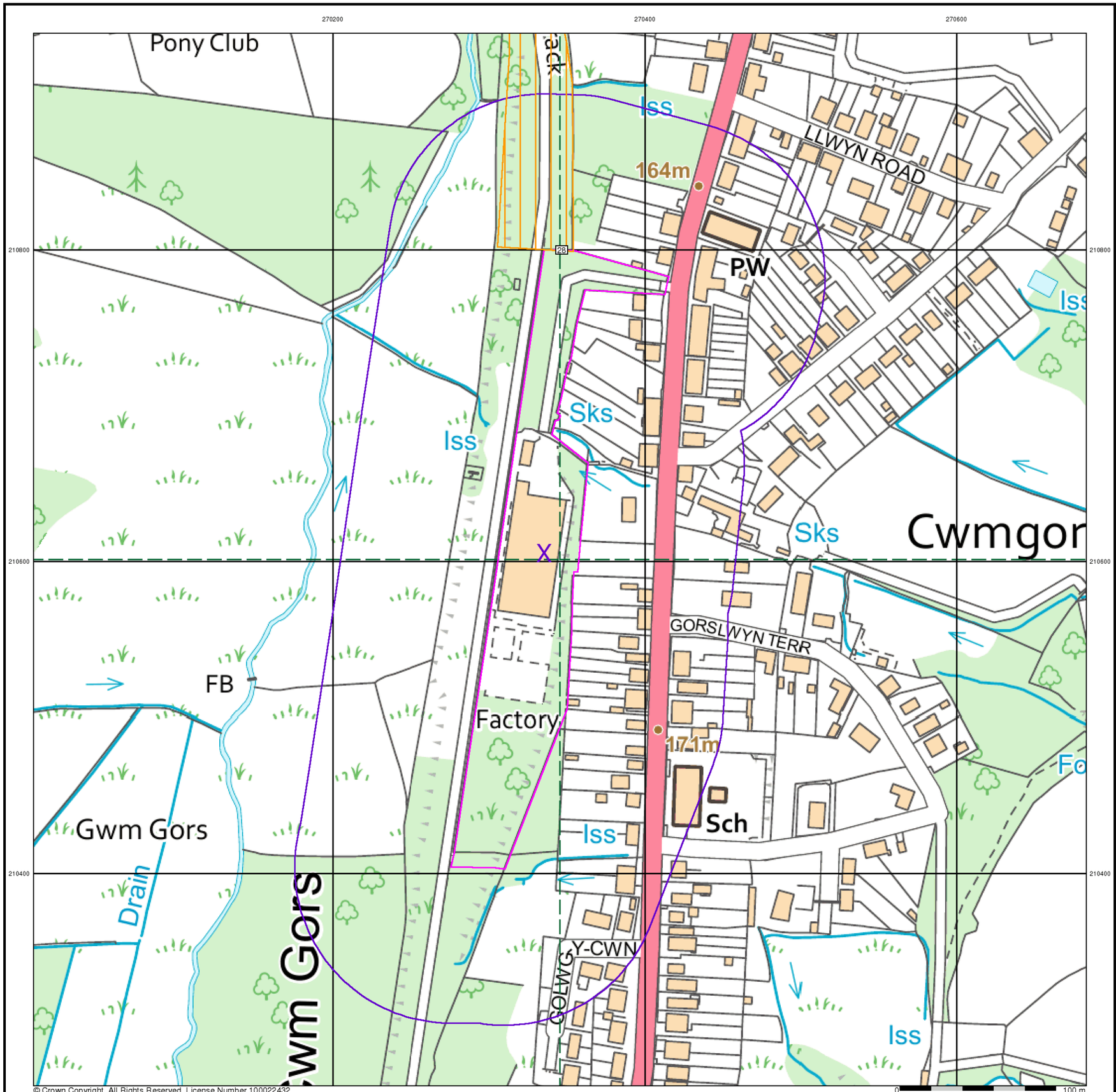
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	The Coal Authority
Ove Arup	ARUP
Stantec UK Ltd	Stantec
Wardell Armstrong	wardell armstrong your earth our world
Johnson Poole & Bloomer	JPB

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
3	**Ove Arup & Partners** Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
4	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9960 Fax: 0844 844 9951 Email: customerservice@promap.co.uk Website: www.landmarkinfo.co.uk
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



Intégral Géotechnique

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

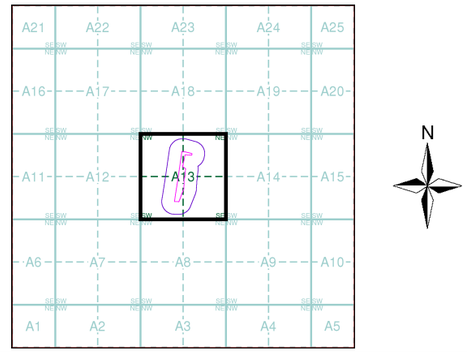
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A13



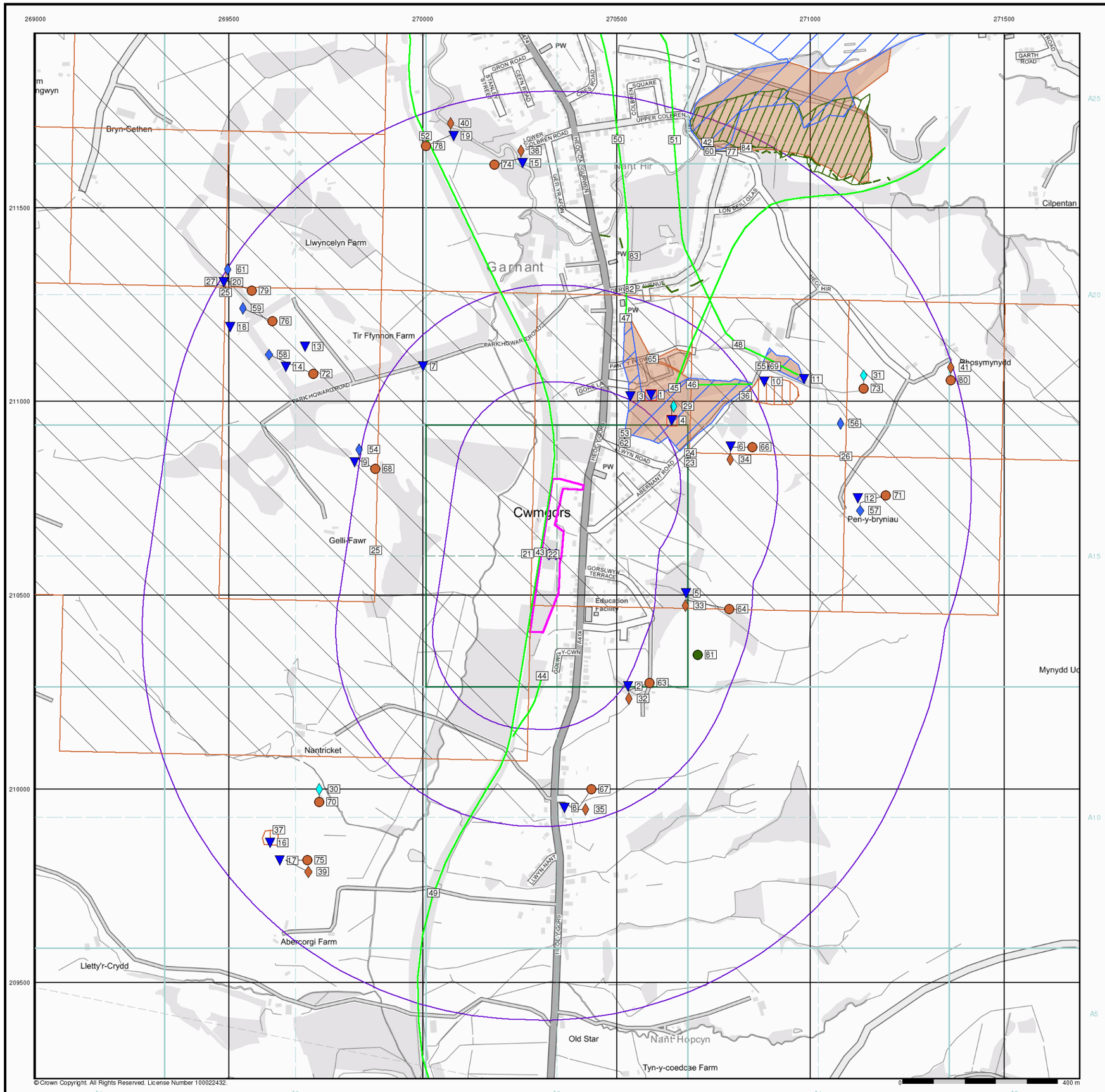
Order Details

Order Number:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Plot Buffer (m):	100

Site Details

Heol Y Gors, Cwmgors, Ammanford, SA18 1RS

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Intégral Géotechnique

Historical Land Use Information (1:10,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	◆		
Disturbed Ground	◆		
General Quarrying	◆		
Heap, unknown constituents	◆		
Mineral Railway	◆		
Mining and Quarrying General	◆		
Mining of Coal & Lignite	◆		
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	◆		

Historical Land Use

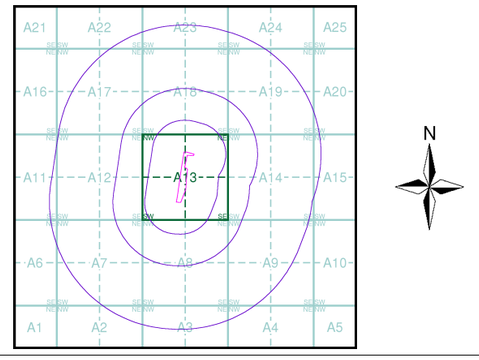
	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	●	- - -	
Potentially Infilled Land (Water)	●	- - -	
Former Marsh	✠		

Mining Data

Potential Mining Area

BGS Recorded Mineral Site

Mining and Ground Stability - Slice A



Order Details

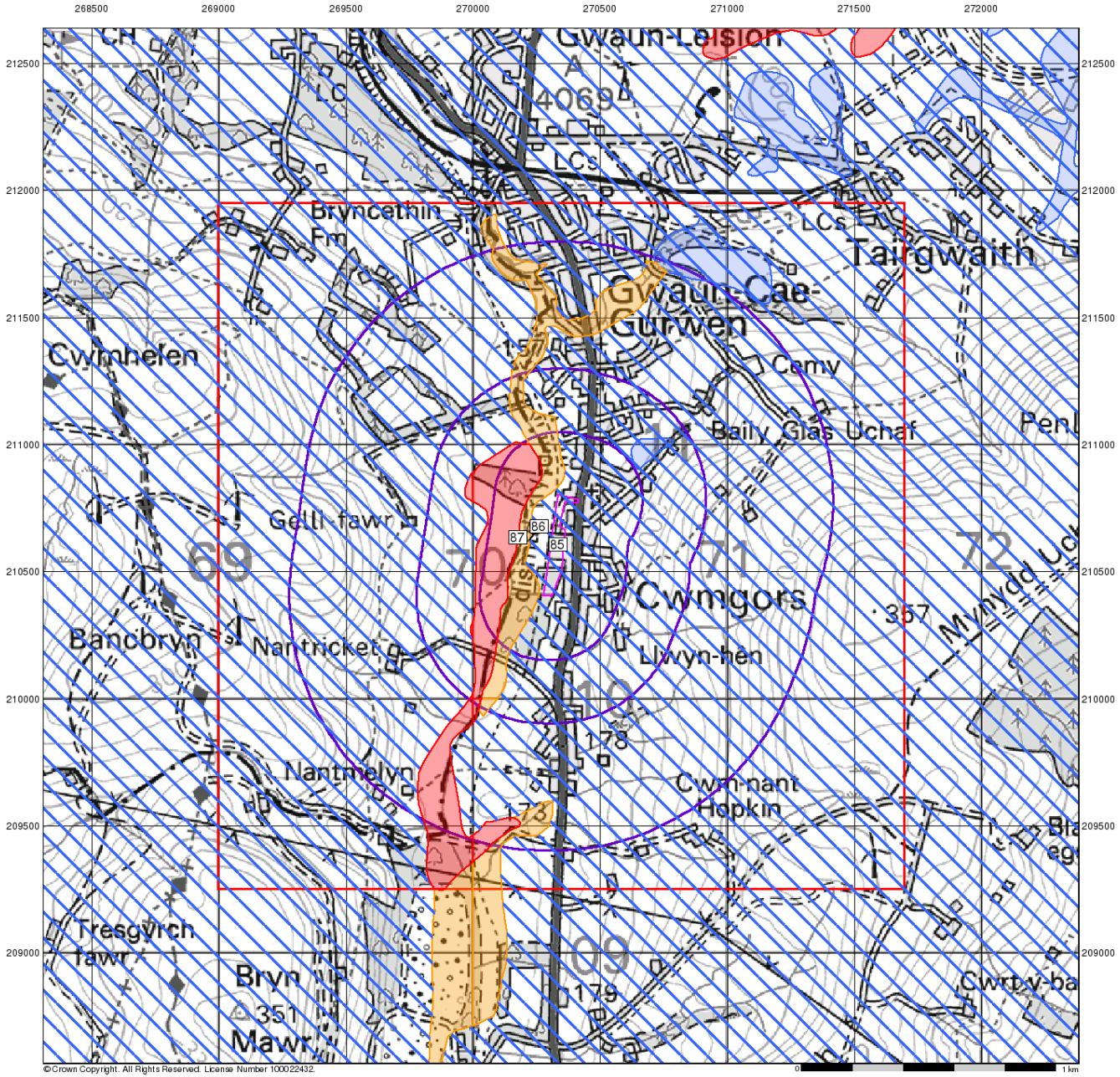
Order Number:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details

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Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Potential for Compressible Ground Stability Hazards

High | Low | Moderate | Very Low

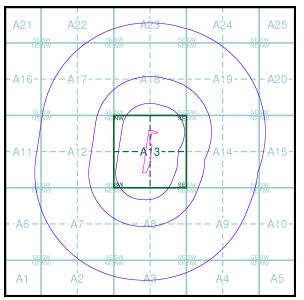
Potential for Collapsible Ground Stability Hazards

High | Low | Moderate | Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature	▲	▨
Salt Mining Related Feature	▲	▨

Mining and Ground Stability - Slice A



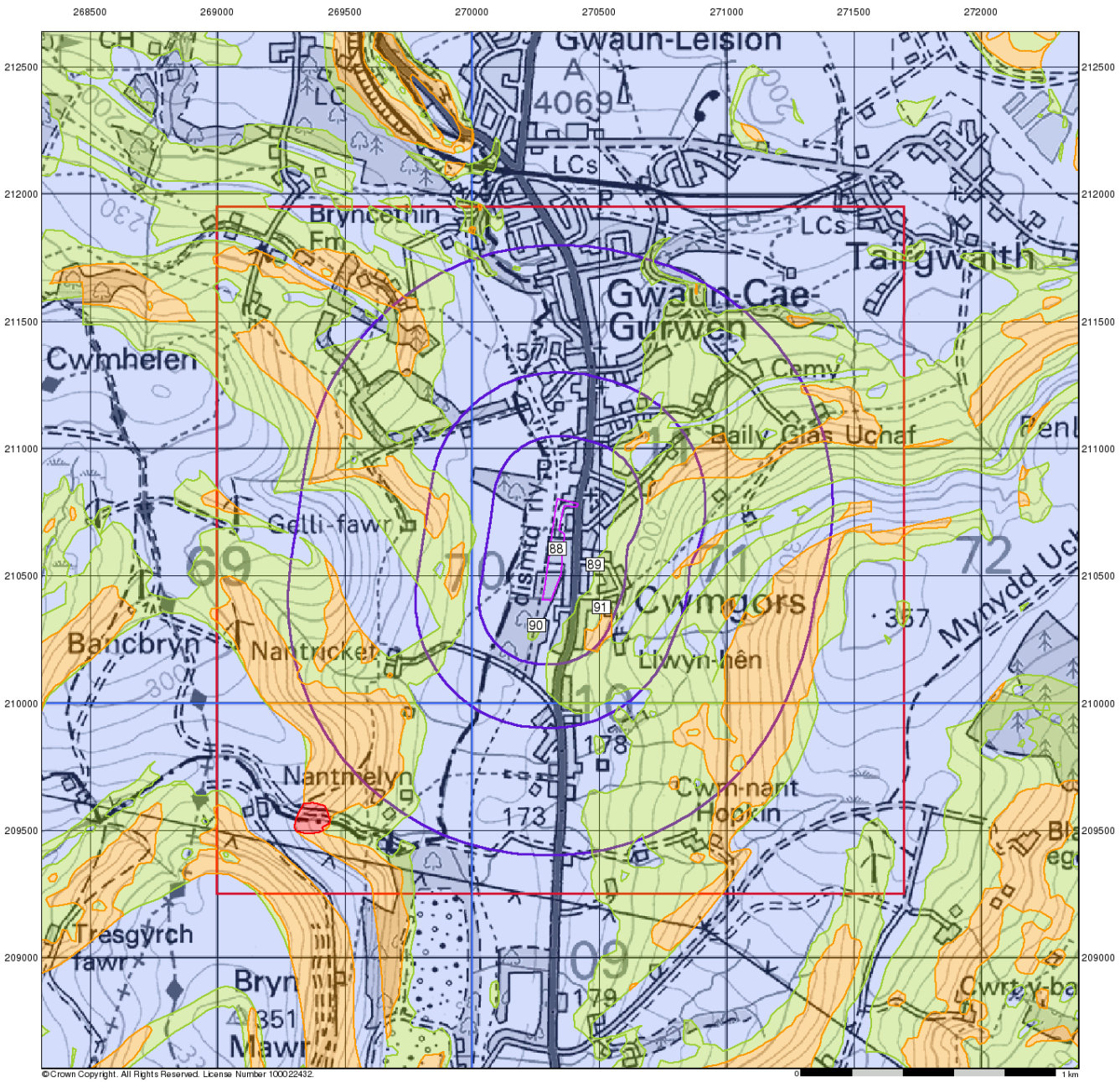
Order Details

Order Number:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details

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Géotechnique

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

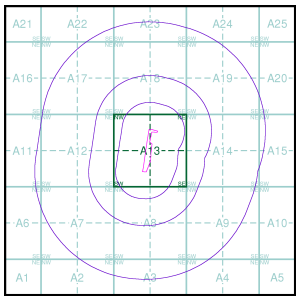
Potential for Landslide Ground Stability Hazards

High | Low
Moderate | Very Low

Potential for Ground Dissolution Stability Hazards

High | Low
Moderate | Very Low

Mining and Ground Stability - Slice A



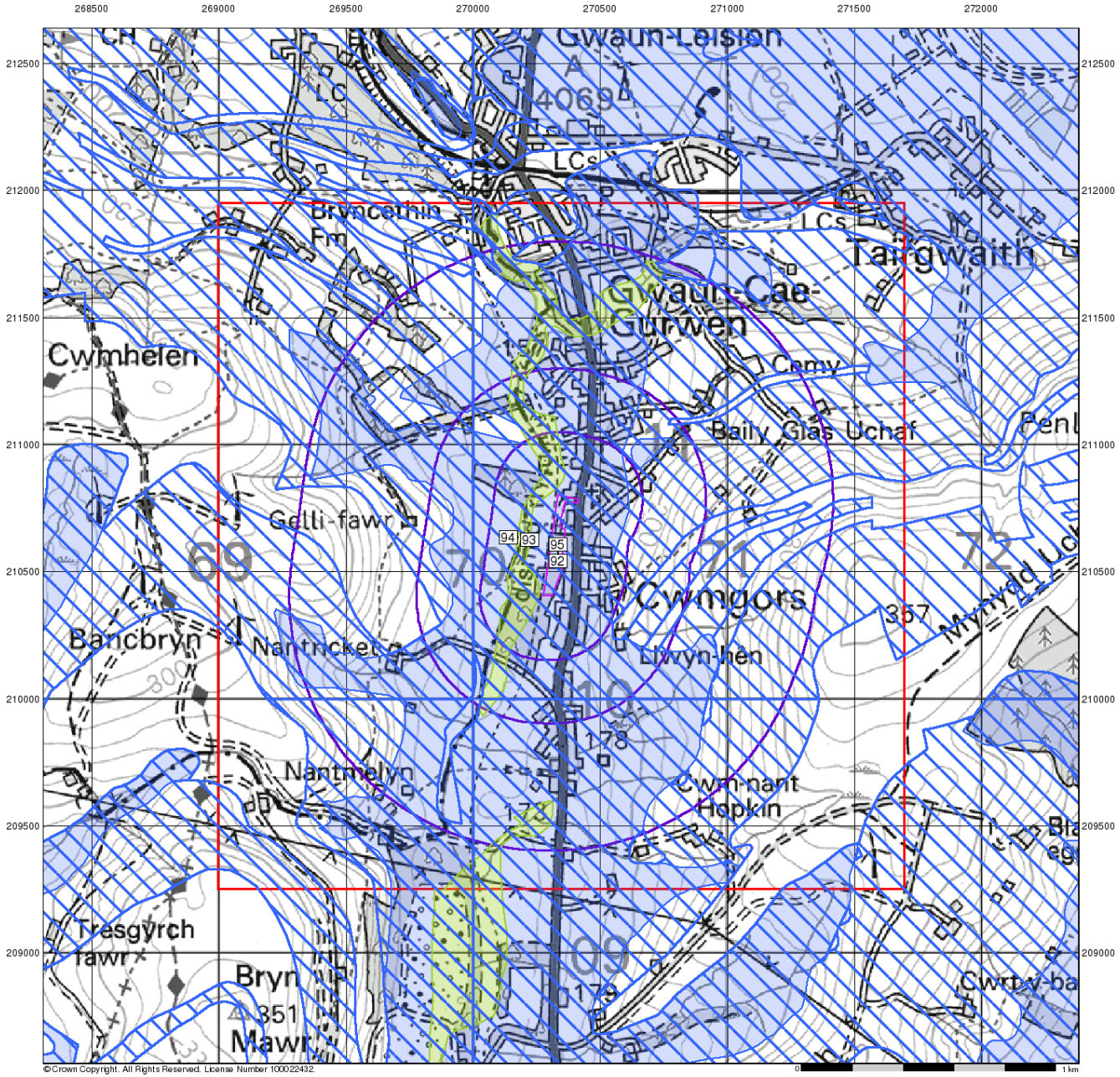
Order Details

Order Number:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details

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Intégral
Géotechnique

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

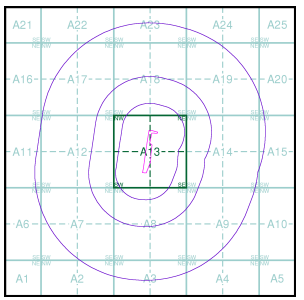
Potential for Running Sand Ground Stability Hazards

High | Low
Moderate | Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High | Low
Moderate | Very Low

Mining and Ground Stability - Slice A



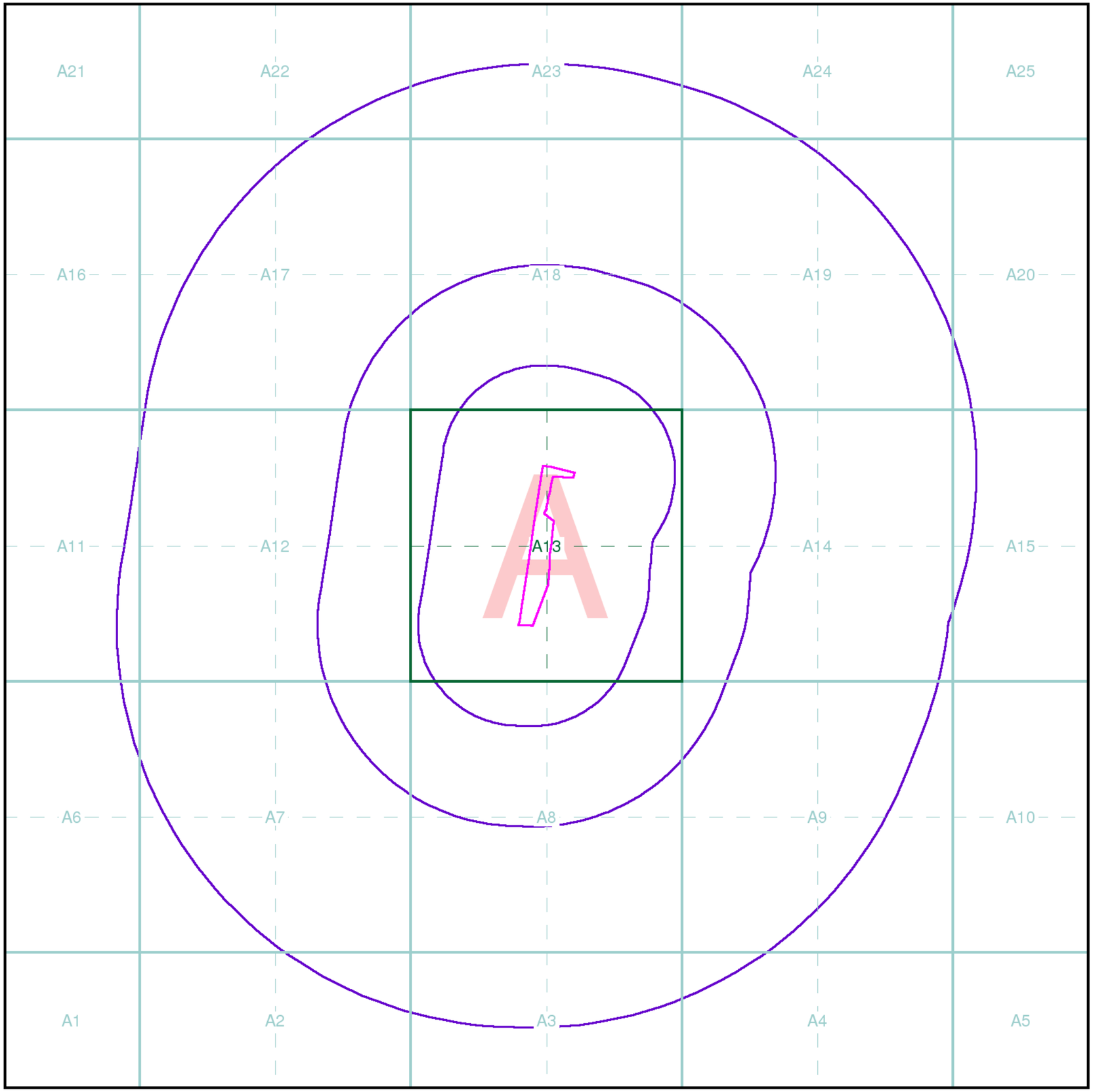
Order Details

Order Number:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270340, 210610
Slice:	A
Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details

Heol Y Gors, Cwmgors, Ammanford, SA18 1RS

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Intégral Géotechnique

Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Cyfoeth Naturiol Cymru
Natural Resources Wales

Envirocheck reports are compiled from 136 different sources of data.

Client Details

MR H Pritchard, Integral Geotechnique, Integral House, 7 Beddau Way, Castlegate Business Park, Caerphilly, CF83 2AX

Order Details

Order Number:	333222872_1_1
Customer Ref:	14301/LP
National Grid Reference:	270330, 210590
Site Area (Ha):	1.78
Search Buffer (m):	1000

Site Details

Heol Y Gors, Cwmgors, Ammanford, SA18 1RS

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APPENDIX B

BGS RADON GEOREPORT

GeoReports

British Geological Survey

LAURA PULLIN
INTEGRAL GEOTECNIQUE
INTEGRAL HOUSE
7
BEDDAU WAY
CAERPHILLY
CF83 2AX

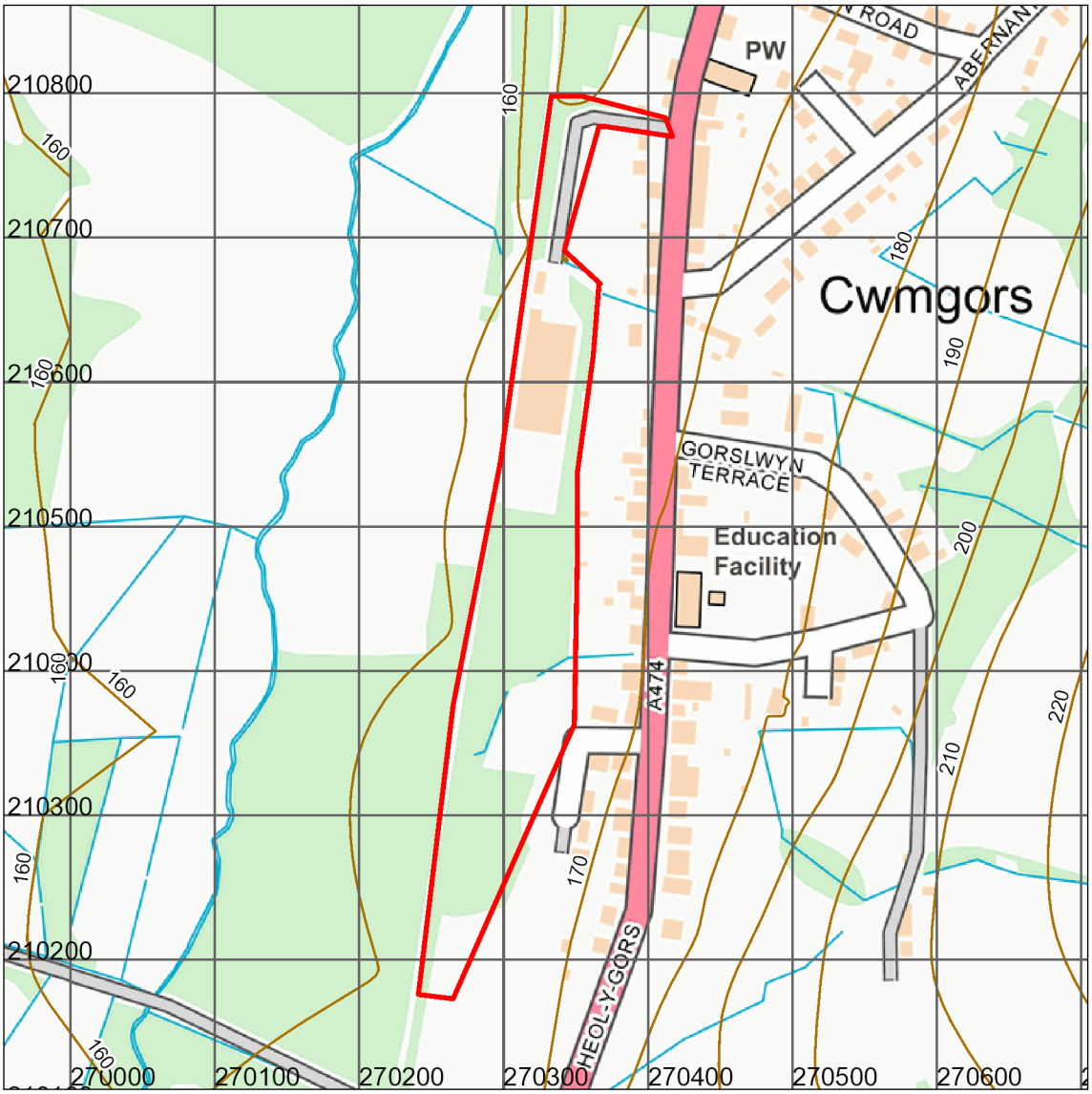
Radon Report

Advisory report on the requirement for radon protective measures in new buildings, conversions and extensions to existing buildings. The report also indicates whether a site is located within a radon Affected Area

Report Id: ***BGS_336840/51746***

Client reference: 14301 Cwmgors, Neath

Search location



Contains OS data © Crown Copyright and database right 2024. OS OpenMap Local: Scale: 1:5 000 (1cm = 50 m)
Search location indicated in red

This report describes a site located at National Grid Reference 270329, 210486. Note that for sites of irregular shape, this point may lie outside the site boundary. Where the client has submitted a site plan the assessment will be based on the area given.

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Radon Report: UK

When extensions are made to existing buildings in high radon areas, or new buildings are constructed in these areas, the Building Regulations for England, Wales, Scotland and Northern Ireland require that protective measures are taken against radon entering the building.

This report provides information on whether radon protective measures are required. Depending on the probability of buildings having high radon levels, the Regulations may require either:

1. No protective measures
2. Basic protective measures
3. Full protective measures

This is an advisory report on the requirement for radon protective measures in new buildings, conversions and extensions. The report also indicates whether a site is located within a radon Affected Area

Requirement for radon protective measures

The determination below follows advice in *BR211 Radon: Guidance on protective measures for new buildings (2023 edition), which also provides guidance on what to do if the* result *indicates that protective measures are required.*

Is the property in an area where radon protective measures are required for new buildings or extensions to existing ones as described in publication BR211 (2023 edition) Radon: Guidance on protective measures for new buildings?

NO RADON PROTECTIVE MEASURES ARE REQUIRED FOR THE REPORT AREA.

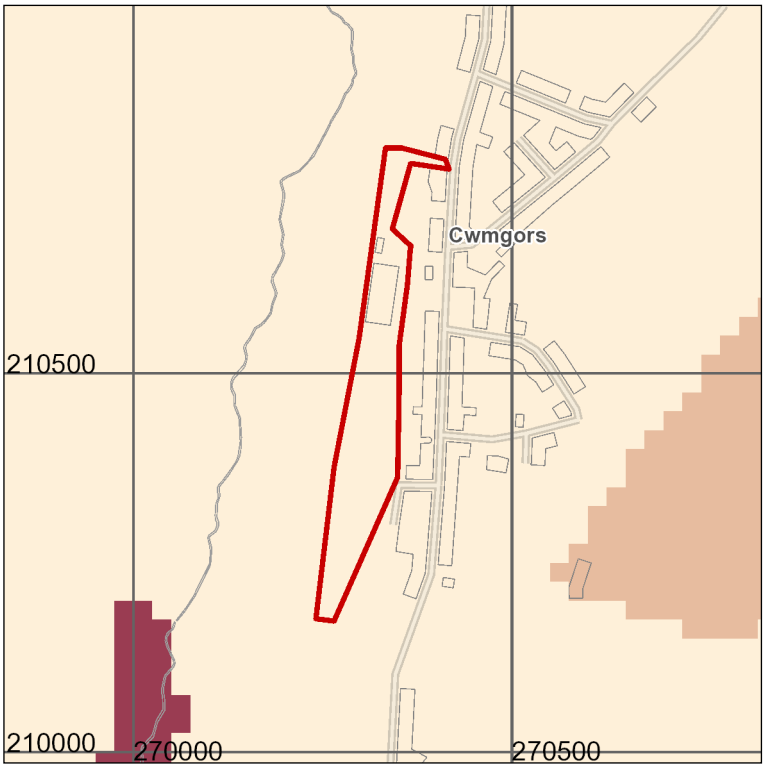
More details of the protective measures required are available in *BR211 Radon: Guidance on protective measures for new buildings (2023 Edition)*.

Whether or not the radon level in a building is above or below the radon Action Level can only be established by having the building tested. The UKHSA provides a radon testing service which can be accessed at www.ukradon.org or by telephone (01235 822622).

If you require further information or guidance, you should contact your local authority building control officer or approved inspector.

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Radon Affected Area



	% Homes estimated to be at or above the action level
	0-1%
	1-3%
	3-5%
	5-10%
	10-30%
	30-100%

Contains OS data © Crown Copyright and database right 2024
Scale: 1:10 000 (1cm = 100 m)
Search area indicated in red

Is the property in a radon Affected Area as defined by the UK Health Security Agency (UKHSA) and if so what percentage of homes are estimated to be at or above the Action Level? **NO**

Additional Information

THE PROPERTY IS IN AN AREA WHERE LESS THAN 1% OF HOMES ARE ESTIMATED TO BE AT OR ABOVE THE ACTION LEVEL. THE PROPERTY IS NOT IN A RADON AFFECTED AREA.

The UKHSA recommends a radon 'Action Level' of 200 Becquerels per cubic metre of air (Bq m^{-3}) for the annual average of the radon gas concentration in a home. Where 1% or more of homes are estimated to be at or above the Action Level the area should be regarded as a radon Affected Area.

This report informs you whether the property is in a radon Affected Area and the percentage of homes that are estimated to be at or above the radon Action Level at this location. Being in an Affected Area does not necessarily mean there is a high radon level within the property; the only way to determine the radon level is to carry out a radon measurement.

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The UKHSA advises that radon gas should be measured in all properties within radon Affected Areas and that homes with radon levels at or above the Action Level (200 Bq m^{-3}) should be remediated. Householders with levels between the Target Level (100 Bq m^{-3}) and Action Level should seriously consider reducing their radon level, especially if they are at greater risk, such as if they are current or ex smokers. Whether or not a home is in fact above or below the Action Level or Target Level can only be established by having the building tested. The UKHSA provides a validated radon testing service which can be accessed at www.ukradon.org.

The information in this report provides an answer to one of the standard legal enquiries on house purchase in England and Wales, known as Law Society CON29 Enquiries of the Local Authority (2016); 3.14 Radon Gas: Do records indicate that the property is in a “Radon Affected Area” as identified by the UKHSA. The data can also be used to advise house buyers and sellers in Scotland and Northern Ireland.

If you are buying a new build property in a Radon Affected Area, you should ask the builder whether radon protective measures were incorporated in the construction of the property.

If you are buying a currently occupied property in a radon Affected Area, you should ask the present owner whether radon levels have been measured in the property. If they have, ask whether the results were at or above the radon Action Level and if so, whether remedial measures were installed, radon levels were re-tested, and if the results of re-testing confirmed the effectiveness of the measures.

Further information on radon is available from the UKHSA at www.ukradon.org.

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What is radon?

Radon is a naturally occurring radioactive gas, which is produced by the radioactive decay of radium which, in turn, is derived from the radioactive decay of uranium. Uranium is found in small quantities in all soils and rocks, although the amount varies from place to place. Radon released from rocks and soils is quickly diluted in the atmosphere. Concentrations in the open air are normally very low and do not present a hazard. Radon that enters enclosed spaces such as some buildings (particularly basements), caves, mines, and tunnels may reach high concentrations in some circumstances. The construction method and degree of ventilation will influence radon levels in individual buildings. A person's exposure to radon will also vary according to how particular buildings and spaces are used.

Inhalation of the radioactive decay products of radon gas increases the chance of developing lung cancer. If individuals are exposed to high concentrations for significant periods of time, there may be cause for concern. In order to limit the risk to individuals, the Government has adopted an Action Level for radon in homes of 200 becquerels per cubic metre (Bq m^{-3}). The Government advises householders that, where the radon level is at or above the Action Level, measures should be taken to reduce the concentration.

Radon in workplaces

The Ionising Radiation Regulations 2017 require employers to take action when radon is present above a defined level in the workplace. Advice may be obtained from your local Health and Safety Executive Area Office or the Environmental Health Department of your local authority. The BRE publishes a guide (BR293)**: Radon in the workplace.** BRE publications may be obtained from the BRE Bookshop, Tel: 01923 664262, email: bookshop@bre.co.uk website: www.brebookshop.com

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Contact Details

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British Geological Survey
Environmental Science Centre
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NG12 5GG
Tel: 0115 9363100
Email: enquiries@bgs.ac.uk

Wallingford Office
British Geological Survey
Maclean Building
Wallingford
Oxford
OX10 8BB
Email: enquiries@bgs.ac.uk

Edinburgh Office
British Geological Survey
Lyell Centre
Research Avenue South
Edinburgh
EH14 4AP
Tel: 0131 6671000
Email: enquiry@bgs.ac.uk

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- The data, information and related records supplied in this Report by BGS can only be indicative and should not be taken as a substitute for specialist interpretations, professional advice and/or detailed site investigations. You must seek professional advice before making technical interpretations on the basis of the materials provided.
- Geological observations and interpretations are made according to the prevailing understanding of the subject at the time. The quality of such observations and interpretations may be affected by the availability of new data, by subsequent advances in knowledge, improved methods of interpretation, and better access to sampling locations.
- Raw data may have been transcribed from analogue to digital format, or may have been acquired by means of automated measuring techniques. Although such processes are subjected to quality control to ensure reliability where possible, some raw data may have been processed without human intervention and may in consequence contain undetected errors.
- Detail, which is clearly defined and accurately depicted on large-scale maps, may be lost when small-scale maps are derived from them.
- Although samples and records are maintained with all reasonable care, there may be some deterioration in the long term.
- The most appropriate techniques for copying original records are used, but there may be some loss of detail and dimensional distortion when such records are copied.
- Data may be compiled from the disparate sources of information at BGS's disposal, including material donated to BGS by third parties, and may not originally have been subject to any verification or other quality control process.
- Data, information and related records, which have been donated to BGS, have been produced for a specific purpose, and that may affect the type and completeness of the data recorded and any interpretation. The nature and purpose of data collection, and the age of the resultant material may render it unsuitable for certain applications/uses. You must verify the suitability of the material for your intended usage.
- If a report or other output is produced for you on the basis of data you have provided to BGS, or your own data input into a BGS system, please do not rely on it as a source of information about other areas or geological features, as the report may omit important details.
- The topography shown on any map extracts is based on the latest OS mapping and is not necessarily the same as that used in the original compilation of the BGS geological map, and to which the geological linework available at that time was fitted.
- Note that for some sites, the latest available records may be historical in nature, and while every effort is made to place the analysis in a modern geological context, it is possible in some cases that the detailed geology at a site may differ from that described.

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Report issued by
BGS Enquiry Service

APPENDIX C

CONSULTANTS COAL MINING REPORT FROM THE COAL AUTHORITY

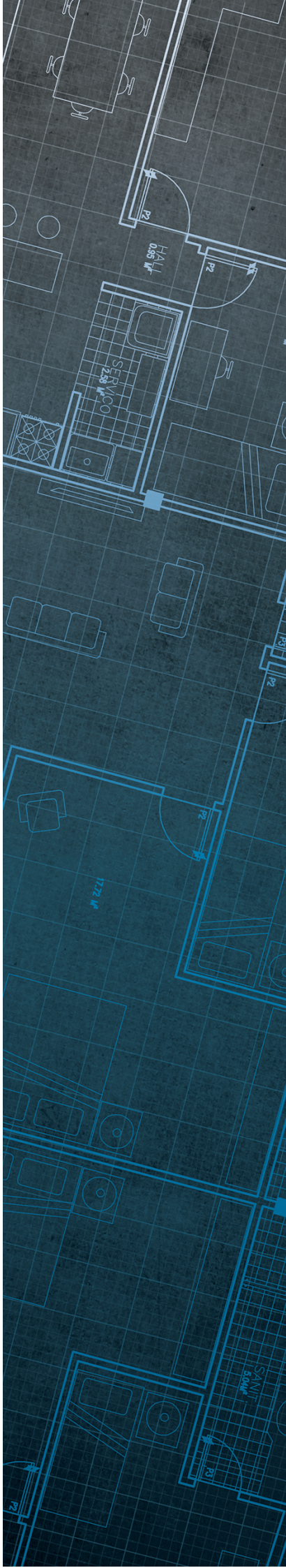
The Coal Authority

Consultants

Coal Mining Report

Heol Y Gors
Cwmgors
Neath Port Talbot
SA18 1RF

Date of enquiry:	**29 January 2024**
Date enquiry received:	**29 January 2024**
Issue date:	**29 January 2024**
Our reference:	**51003401905001**
Your reference:	**14301/LP**



Consultants
Coal Mining Report

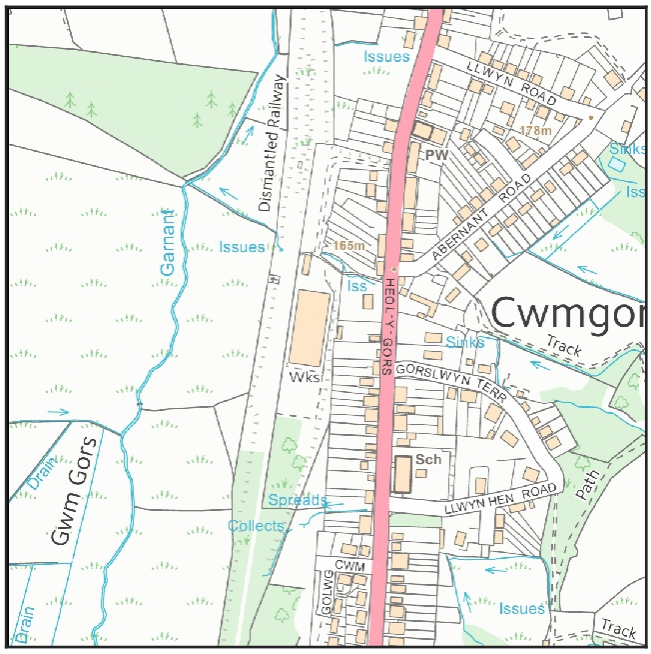
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

INTEGRAL GEOTECHNIQUE (WALES) LTD.

Enquiry address

Heol Y Gors
Cwmgors
Neath Port Talbot
SA18 1RF



Approximate position of property

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/company/the-coal-authority
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/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	ABERGORCHI	Coal	4FTJ	37	Beneath Property	7.6	South	167	1900
LLWYNRHIDIE	ABERGORCHI	Coal	4FTH	65	Beneath Property	5.5	South	167	1915
unnamed	UPPER NINE FOOT	Coal	4G4A	323	North-East	9.2	South-West	150	1948
unnamed	LOWER 9FT BOTTOM LEAF	Coal	4G4U	343	North-East	9.6	South-West	120	1945
unnamed	LOWER 9FT BOTTOM LEAF	Coal	4G48	344	North-East	14.4	South-West	107	1945
unnamed	UPPER NINE FOOT	Coal	4G49	354	North	0.0	East	150	1936
unnamed	UPPER NINE FOOT	Coal	4G5G	357	North	15.1	South	147	1938
unnamed	LOWER NINE FOOT TOP LEAF	Coal	4G5C	376	North-East	7.3	South-West	110	1931
unnamed	LOWER NINE FOOT TOP LEAF	Coal	4G5A	386	North	11.9	South	110	1933
unnamed	LOWER NINE FOOT TOP LEAF	Coal	4G4J	399	East	9.6	South-West	112	1940
unnamed	LOWER NINE FOOT TOP LEAF	Coal	4G4I	407	Beneath Property	9.3	South-West	112	1940
unnamed	LOWER NINE FOOT TOP LEAF	Coal	4G4H	415	North-West	0.0	East	112	1933
unnamed	LOWER NINE FOOT TOP LEAF	Coal	4G4G	415	West	0.0	East	112	1935
unnamed	LOWER NINE FOOT	Coal	4FSX	425	West	12.6	South	169	1933

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

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Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	270210-012	270422 210828		Coal	
Shaft	270210-013	270396 210636		Coal	

Abandoned mine plan catalogue numbers

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

14497	SWR2809	SWR2010
SWR1446	SWA3432	SWA4036
PO0	SWR1562	SWR1493

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

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

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
HAFOD	Coal	Yes	Within	N/A	70

Geological faults, fissures and breaklines

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

Fault under or close to the property recorded.

Opencast mines

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

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

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

Site investigations
None recorded within 50 metres of the enquiry boundary.

Remediated sites
None recorded within 50 metres of the enquiry boundary.

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

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

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

Mine gas
None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes
None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

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

Court orders
None recorded.

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

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

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

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

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Section 4 – Further information

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

Future development

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

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

Development advice

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

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

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Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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The Coal Authority

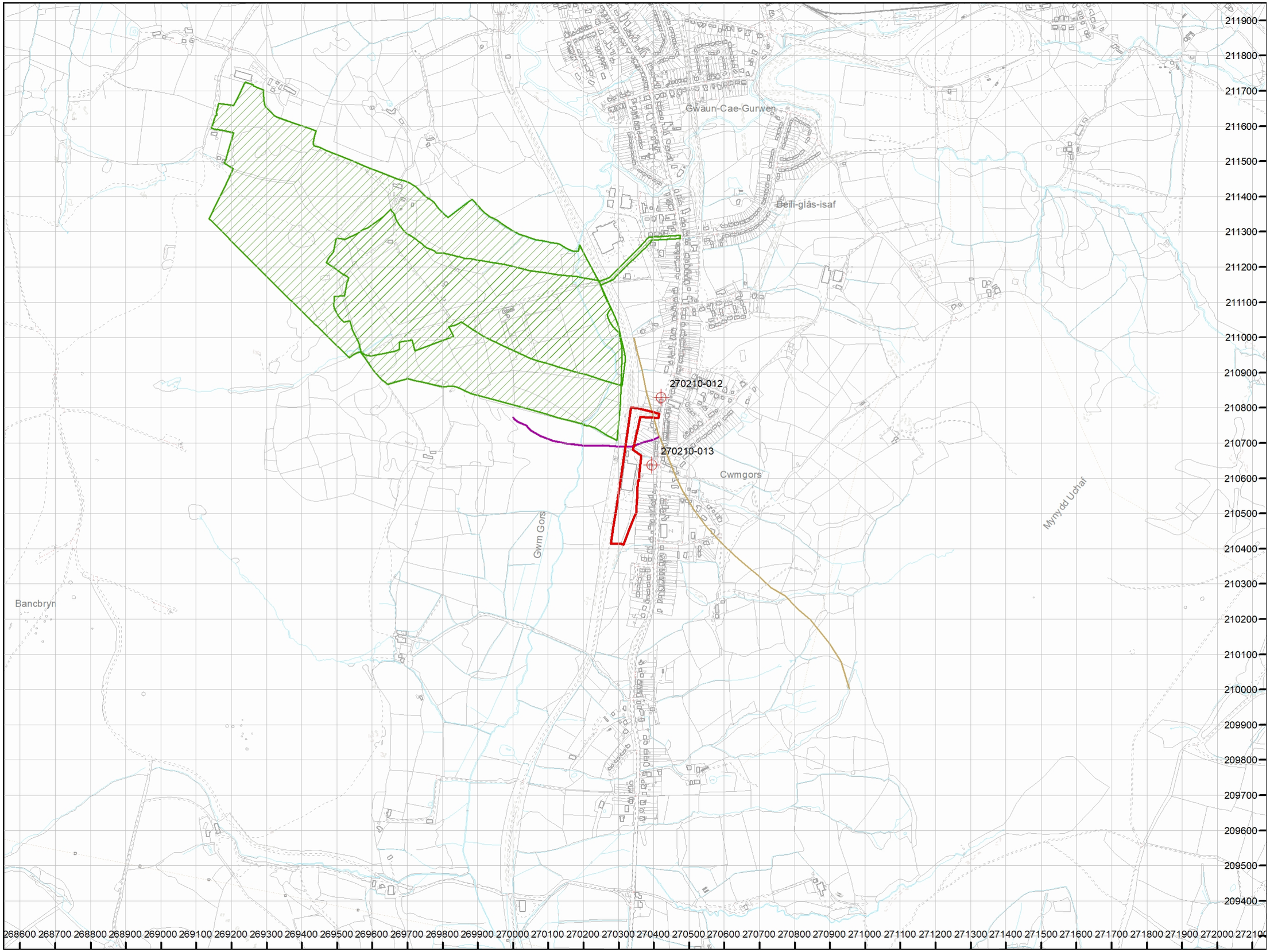
Summary of findings

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

Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Outcrop (Proven)
- Geological faults
- Unlicensed opencast site



How to contact us
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www.groundstability.com

FIGURES

NORTH

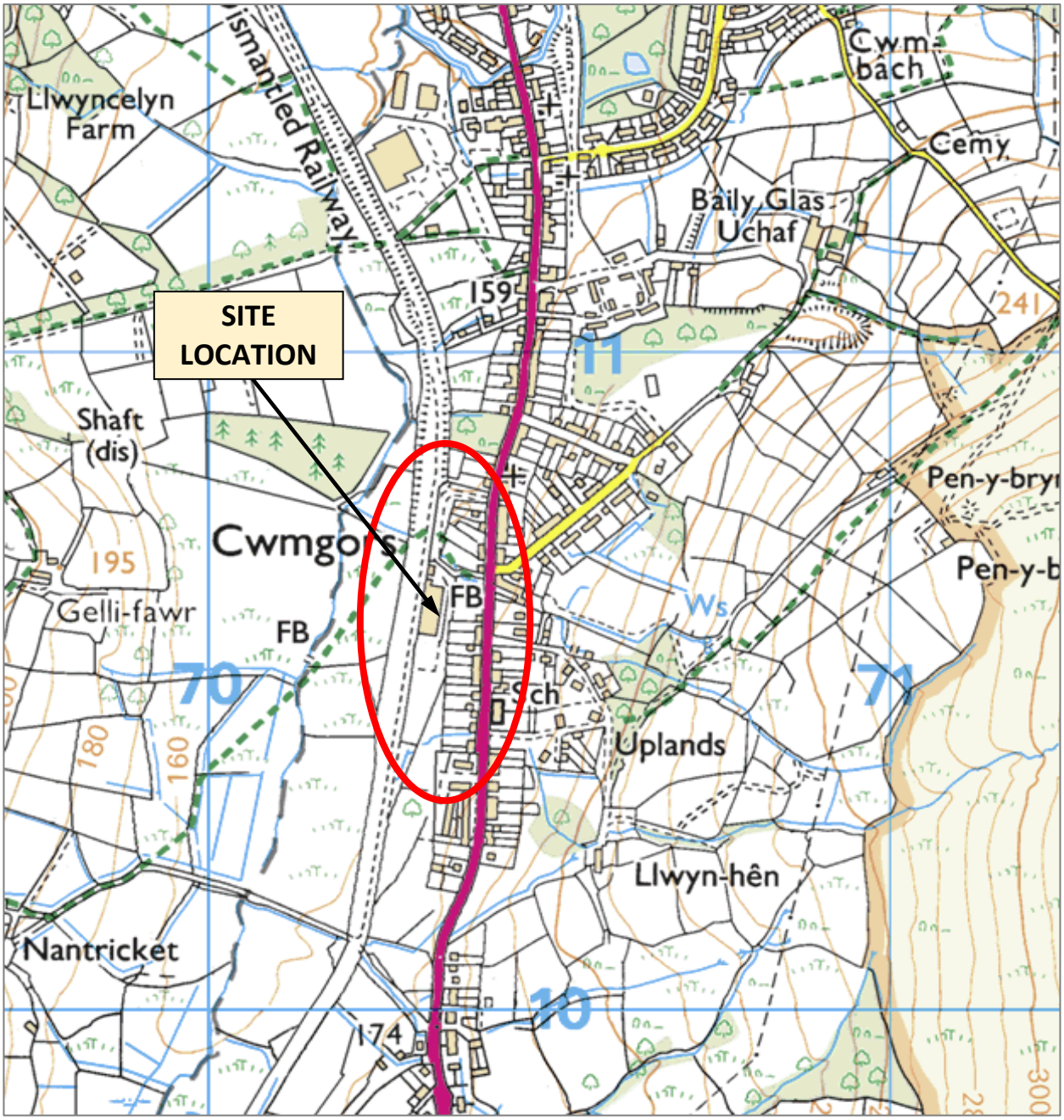
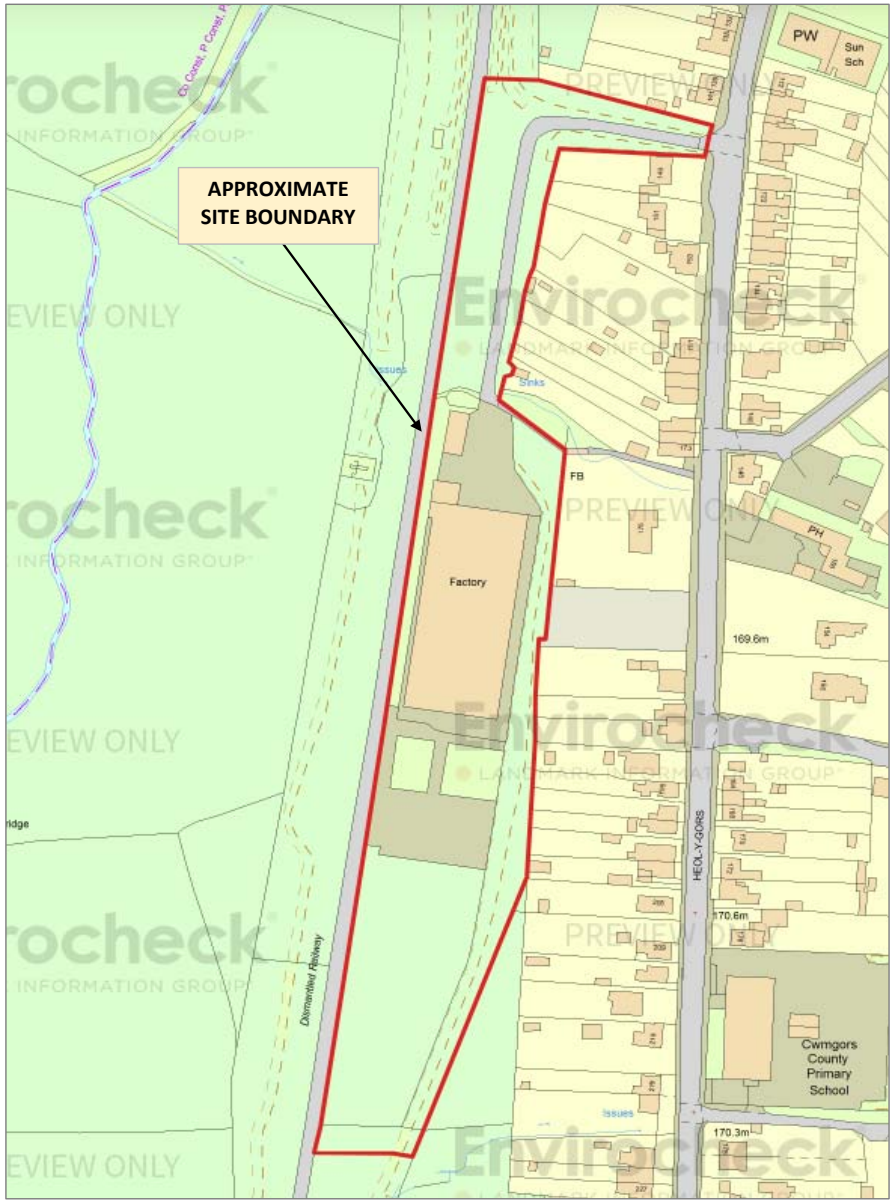


FIGURE 1: SITE LOCATION

Land at Cwmgors, Neath Port Talbot

Intégral Géotechnique
Intégral House
7 Beddau Way
Castlegate Business Park
Caerphilly
CF83 2AX
Tel: 029 2080 7991



NORTH

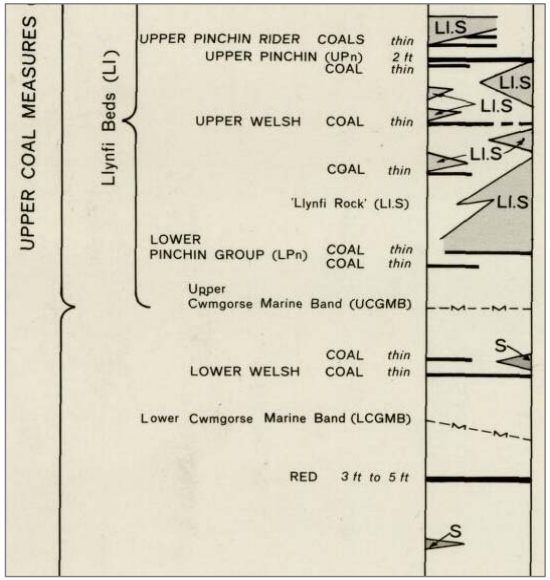


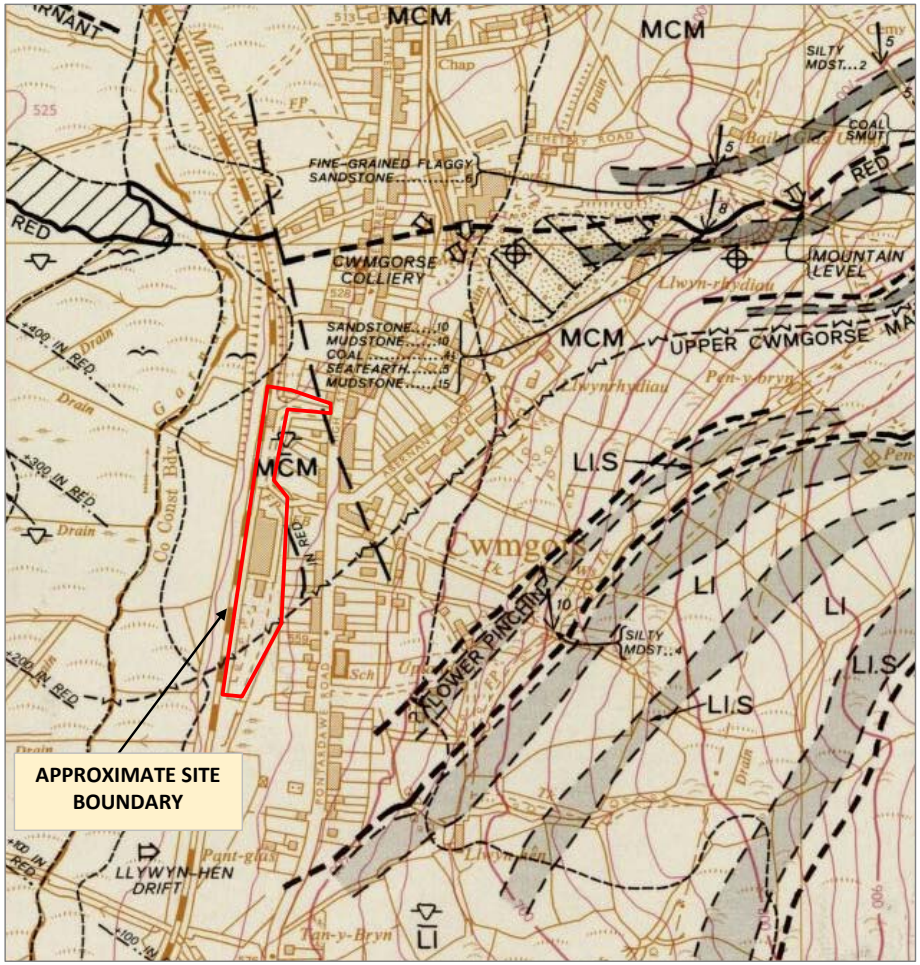
FIGURE 2: SITE PLAN

Land at Cwmgors, Neath Port Talbot

Intégral Géotechnique

Intégral House
7 Beddau Way
Castlegate Business Park
Caerphilly
CF83 2AX
Tel: 029 2080 7991





NORTH

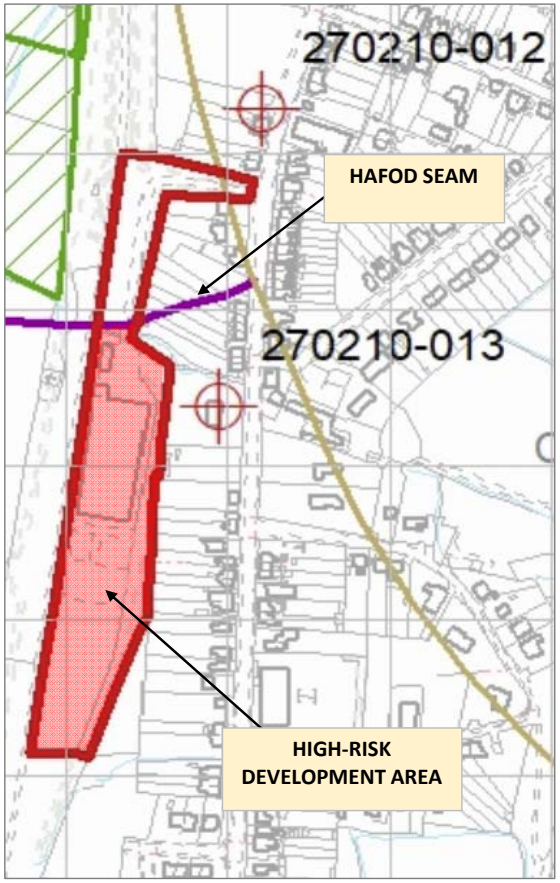


FIGURE 3: GEOLOGY PLAN EXTRACT AND MINING RISK AREA

Land at Cwmgors, Neath Port Talbot

Intégral Géotechnique

Intégral House
7 Beddau Way
Castlegate Business Park
Caerphilly
CF83 2AX
Tel: 029 2080 7991