Geotechnical & Geoenvironmental Desk Study: Proposed Commercial Development, Land at Swansea Valley Business Park, Ystalyfera, Swansea

Prepared For:
CB³ Consult Limited

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terrafirma

REPORT TITLE	**:**	**Geotechnical & Geoenvironmental Desk Study:** Proposed Commercial Development, Land at Swansea Valley Business Park, Ystalyfera, Swansea
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APPROVED BY	**:**	…… **Dr Gwyn C Lake**

Executive Summary	
Proposed Development & Site Location	*P & C James Limited is proposing a commercial development on land located to the west of the A4067 in Swansea Valley Business Park, Ystalyfera. The development is yet to be finalised but will be commercial in nature and likely to comprise four large and three smaller commercial units with associated car parking and areas of hard and soft landscaping.*
Site History	*From the earliest edition the site is seen to fall in an area associated with the Ystalyfera Iron Works. A building encroaches into the north western corner and rail lines south of the site. A chimney is then added in the north western corner by the 1899 edition. Further changes are made by 1918 with two new rail lines present in the western side of the site. By the late 1970's the structures are removed, and a road is present across the centre of the site associated with a new works building to the west. The road structures are no longer present on the 2020 edition.*
Geology	*The site is shown to be underlain by the South Wales Middle Coal Measures Formation which is Carboniferous in age. The BGS Lexicon of Named Rock Unit describes the member as "grey, (productive) coal-bearing mudstones/siltstones, with seatearths and minor sandstones".* *The bedrock geology is seen to be overlain by superficial deposits of alluvium. Given the proximity to the river these deposits are likely to comprise sands and gravels with varying quantities of clay, silt, cobble, and boulders. Made ground is also anticipated.*
Mining	*Terra Firma (Wales) Limited obtained a Coal Authority Mining report for the site. The report confirms that 'the property is not within a surface area that could be affected by past underground mining'. The report cautions that 'the property is in an area where the Coal Authority believe there is coal at or close to the surface' and that 'this coal may have been worked as some time in the past'.* *The report also states that 'there are no recorded coal mine entries known to the Coal Authority within, or within 20m, of the boundary of the property'. The historical maps have shown a few coal levels to the north and west of the site.* *The Coal Authority viewer shows a seam present in the eastern corner of the site. This seam is only just present on the site and appears to have been truncated by the Allt-Y-Grug Fault that is present to the east and under the site at depth. The coal close to the fault is likely to have been heavily impacted by the faulting and is therefore unlikely to have been worked.* *The areas associated with the seam is a development high risk area however the remaining area and significant majority of the site is not recorded as a development high risk area.*
Radon Gas	*NO radon protection will be required for new development.*
Landfill Gas and Ground Gas	*One landfill site is located 59m to the south east of the site and there is a low to moderate risk of landfill gas. Made ground is anticipated however it is not expected to contain putrescible material and there is a low risk from ground gas.*
Anticipated Sources of Contamination	*The site fell in an area associated with the Ystalyfera Metal Works and contamination may therefore be present associated with this use The risk from these sources is low to moderate.*
Anticipated Foundation Solution	*At present the exact ground conditions are unknown and should be confirmed with the recommended site investigation works. Based upon the anticipated ground conditions, it is considered that a reinforced concrete strip and trench fill foundation will be suitable for the future development. However, this is dependent on the required bearing capacity.* *Alternative deeper non-traditional foundations may be required if the alluvium if found to be less competent or highly variable.*

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SECTION 1 Introduction and Proposed Development

1.1 Introduction

P & C James Limited is proposing a commercial development on land located to the west of the A4067 in Swansea Valley Business Park, Ystalyfera. The development is yet to be finalised but will be commercial in nature and likely to comprise four large and three smaller commercial units with associated car parking and areas of hard and soft landscaping. The current working layout is presented below.

CB^3 Consult Limited are the Consulting Structural and Civil Engineers for the project.

Figure 1.1 *Proposed Site Layout*

Terra Firma (Wales) Limited has been commissioned to undertake a Phase I geo-environmental and geotechnical desk study of the site. The main objectives of the desk study were to:

- To provide information on past and current uses of the site and surrounding area
- To provide information on the nature of any hazards and physical constraints, for example buried structures/obstructions
- To provide information on the likely ground conditions beneath the site, including soil types, groundwater and if made ground is likely to be present
- To provide information on the geology, hydrogeology, and hydrology of the site
- Identify the likely potential environmental liabilities at the site associated with any soil and groundwater contamination from past site uses
- Identify if methane/radon gas emissions either from the site or surrounding areas is likely to be present
- To produce an initial site conceptual model of the site, to illustrate the nature and extent of potential contamination, its source, potential pathways, and likely receptors (pollutant linkage)
- To provide data for a preliminary risk assessment

1.1 Introduction (Continued)

- To provide data to assist in the design of an intrusive site investigation and give early indications of possible remediation requirements
- To provide a tentative foundation and floor slab solution for the proposed development

In order to achieve the above objectives, Terra Firma (Wales) Limited carried out an assessment programme including a review of existing data and a site walk over survey.

1.1 Limitations and Exceptions of Desk Study

CB^3 Consult Limited on behalf of P & C James Limited of have requested that a Geo-environmental and Geotechnical Desk Study Report be carried out in order to determine the history, likely ground conditions and possibility of contamination and ground gasses beneath the site. Based on the desk study information a tentative foundation/floor slab solution is also to be presented. In addition, the effect if any of radon gas beneath the site has also been investigated.

The desk study has been conducted and this report has been prepared for the sole internal reliance of P & C James Limited and their design and construction team. This report shall not be relied upon or transferred to any other parties without the express written authorisation of Terra Firma (Wales) Limited. If an unauthorised third party comes into possession of this report they rely on it at their peril and the authors owe them no duty of care and skill.

The report represents the findings and opinions of experienced geo-environmental and geo-technical consultants. Terra Firma (Wales) Limited does not provide legal advice and the advice of lawyers may also be required.

SECTION 2 Review of Existing Data

2.1 Physical Setting and Current Site Use

The site is roughly rectangular in shape and located to the west of the A4067 at Swansea Valley Business Park, centring on an approximate National Grid Reference of 276500, 208220 occupying a plan area of approximately 0.55 Hectares / 5,500m². The site location can be seen below in **Figure 2.1**.

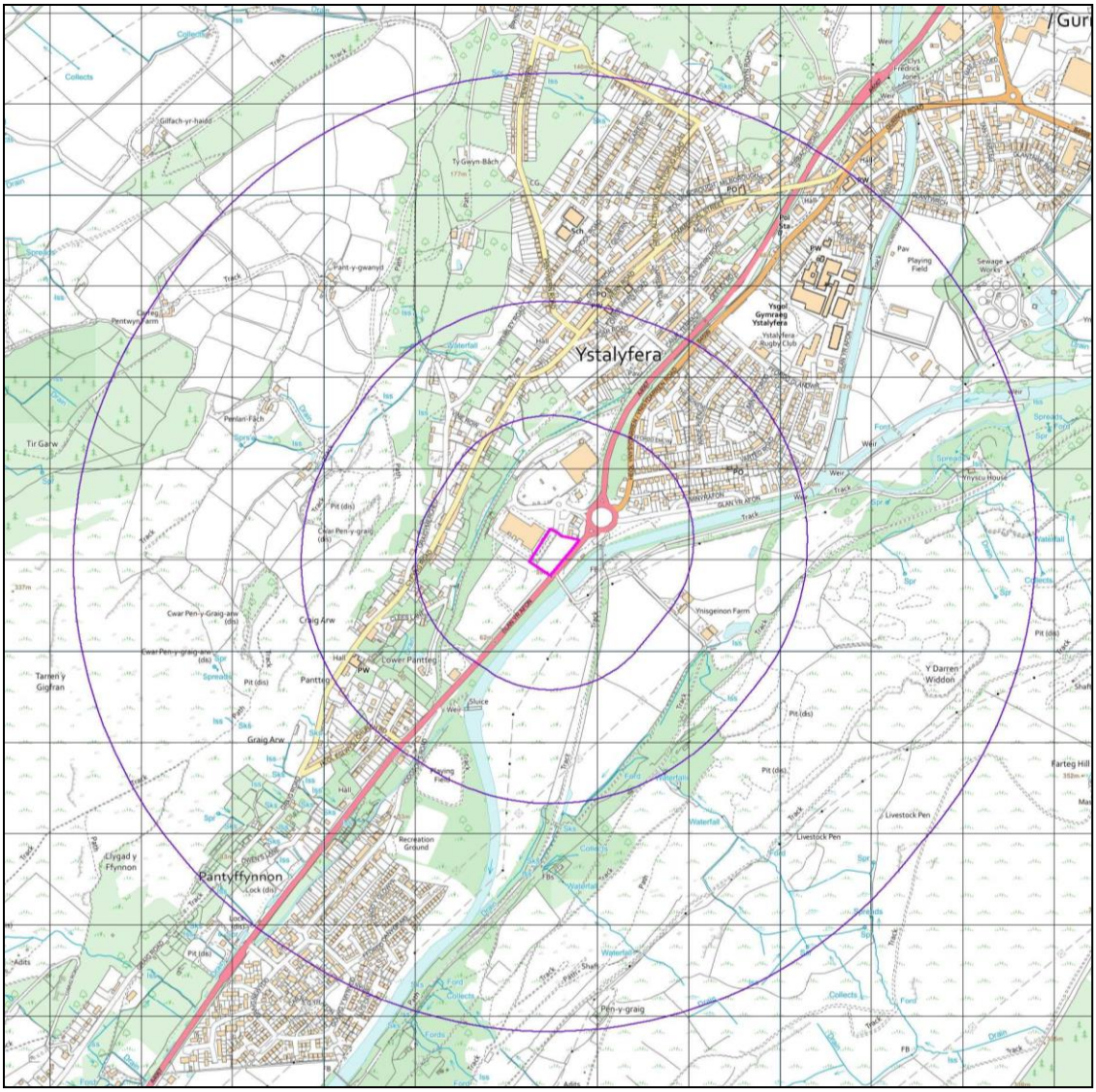


Figure 2.1 *Site Location*

The site comprises an area of gravel hard standing with rough vegetation on the eastern side of Swansea Valley Business Park. The site partially extends into the access road and car parking associated with the large industrial unit to the north west of the site.

The site is relatively flat with a very gentle slope in a north westerly direction. It locates at an approximate height of 58m A.O.D. The surrounding area is also relatively flat owing to the site valley bottom location.

The settlement of Ystalyfera locates to the north of the site with the remaining areas a mix of woodland and field land.

2.2 Site History

Historical maps of the site have been obtained in an Envirocheck History Report, provided by Landmark Information Group. The history plans are supplied in **Annex A** of this report, and the most relevant editions are summarised below in **Table 2.1**. Distances are approximate, and any changes occurring completely between map editions may not be recorded.

Table 2.1 Summary of Historical Map Information

Map Date and Scale	Key Features on Site	Key Features off Site
1877-1878 (1:2,500)	The site falls in an area associated with Ystalyfera Works (Iron) and a small portion of a building is present on the north western boundary. Rail lines, part of the iron works infrastructure, are present crossing the southern half and south western corner of the site.	The main buildings of the Ystalyfera Works are located to the north west and west of the site. The River Tawe locates approximately 30m to the south east of the site and flows in a south westerly direction past the site. The rail line that crosses the site appears to be access to a tip associated with the steel works 100m south of the site on the other side of the River Tawe. Located 150m west of the site is the Swansea Canal. A north south rail line is present 70m to the east of the site. Located approximately 180m to the north west of the site is a small old quarry. Approximately 250m to the north of the site is a coal level. In the surrounding area residential properties locate on the north western side of the works.
1899 (1:2,500)	A chimney is located in the north western corner of the site.	The works are now identified as the Ystalyfera Iron and Tin Plate Works.
1918 (1:2,500)	The former structures present have been removed and two new rail lines are present and terminate in the wester side of the site.	A large portion of the works to the north of the site has been removed. Approximately 250m to the north of the site is the disused Pwll-Back Colliery. An old drift is present 100m to the west of the site. Residential properties have been constructed to the north east of the site.
1921-1953	No historic maps are available for this period.	
1953 (1:10,560)	No significant changes	Two pairs of houses have been constructed immediately to the north of the site.
1961-1962 (1:2,500)	No significant changes.	Further residential development has occurred to the north east of the site.
1977 (1:2,500)	All former structures have been removed. A new road is present across the centre of the site and parallel to the western boundary. These are associated with the new 'Works' building located to the west of the site. A factory has also been constructed to the north.	A new roundabout has been constructed 50m to the north east.
1993 (1:10,000)	No significant changes.	No significant changes.
2001 Historic Aerial Photography	The site is seen to be crossed by access roads as previously described and areas of green vegetation between. Large trees are also seen to be present on the site	No significant changes.
2006 (1:10,000)	No significant changes.	No significant changes.
2020 (1:10,000)	There are no longer signs of the access road that crossed the site.	No significant changes.

2.3 Geological Setting

2.3.1 Geology

The 1:10,560 scale (Sheet SN 70 NE) geological map of the area was consulted for geology underlying the site. The site is shown to be underlain by the South Wales Middle Coal Measures Formation which is Carboniferous in age. The BGS Lexicon of Named Rock Unit describes the member as “grey, (productive) coal-bearing mudstones/siltstones, with seatearths and minor sandstones”.

The dip of the bedrock is not given near the site however slightly more distant to the site the dip is seen to be 10° south. Approximately 270m south west of the site is the Tawe Valley Disturbance and an area identified as a ‘smash belt’ that is in a south west to north east orientation and is ‘possibly several hundred feet wide’. This area is likely to have a complex structural geology. The north south orientated, Allt-Y-Grug Fault is also present 75m east of the site with the downthrown side to the west.

The conjectured outcrop position of the Red coal seam is seen to be 200m to the west of the site. The coal seam has a north to south orientation and the generalised vertical section indicates that it is between 2ft 7in to 3ft 10in. The vertical section then shows the next named coal seam, the Blackband Vein, approximately 120m (400ft) below. Between these two coal seams thin coals are recorded.

The bedrock geology is seen to be overlain by superficial deposits of alluvium. Given the proximity to the river these deposits are likely to comprise sands and gravels with varying quantities of clay, silt, cobble, and boulders. Made ground is also anticipated.

The underlying geology is not prone to dissolution and the risk of **natural** cavities in the bedrock is considered negligible.

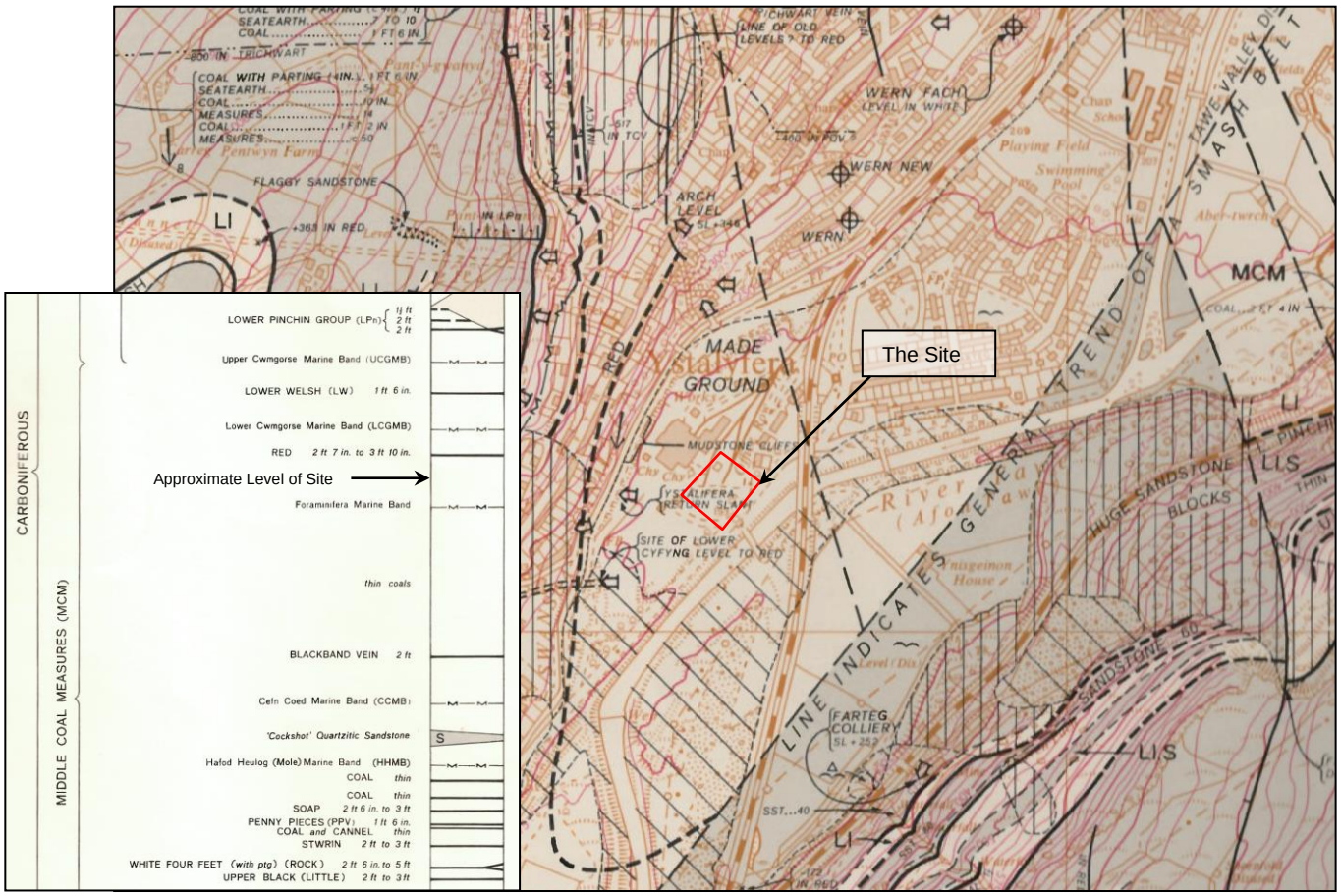


Figure 2.2 *Extract and Vertical Section from Map Sheet SN 70 NE*

2.3.2 Mining

Terra Firma (Wales) Limited obtained a Coal Authority Mining report for the site. The report confirms that 'the property is not within a surface area that could be affected by past underground mining'. The report cautions that 'the property is in an area where the Coal Authority believe there is coal at or close to the surface' and that 'this coal may have been worked as some time in the past'.

The report also states that 'there are no recorded coal mine entries known to the Coal Authority within, or within 20m, of the boundary of the property'. The historical maps have shown a few coal levels to then north and west of the site.

The Coal Authority has no record of a mine gas emission requiring action.

Given the location of the Red Coal Seam and the dip of the geology in the area it will not underlie the site. In addition to this given the depth of the Blackband Vein, there would be no risk to the surface from workings in this seam. The geological section identifies 'thin coals' between these seams but these are unlikely to be economical viable seams and would not have been worked.

The Coal Authority viewer shows a seam present in the eastern corner of the site. This seam is only just present on the site and appears to have been truncated by the Allt-Y-Grug Fault that is present to the east and under the site at depth. The coal close to the fault is likely to have been heavily impacted by the faulting and is therefore unlikely to have been worked.

The areas associated with the seam is a development high risk area however the remaining area and significant majority of the site is not recorded as a development high risk area.

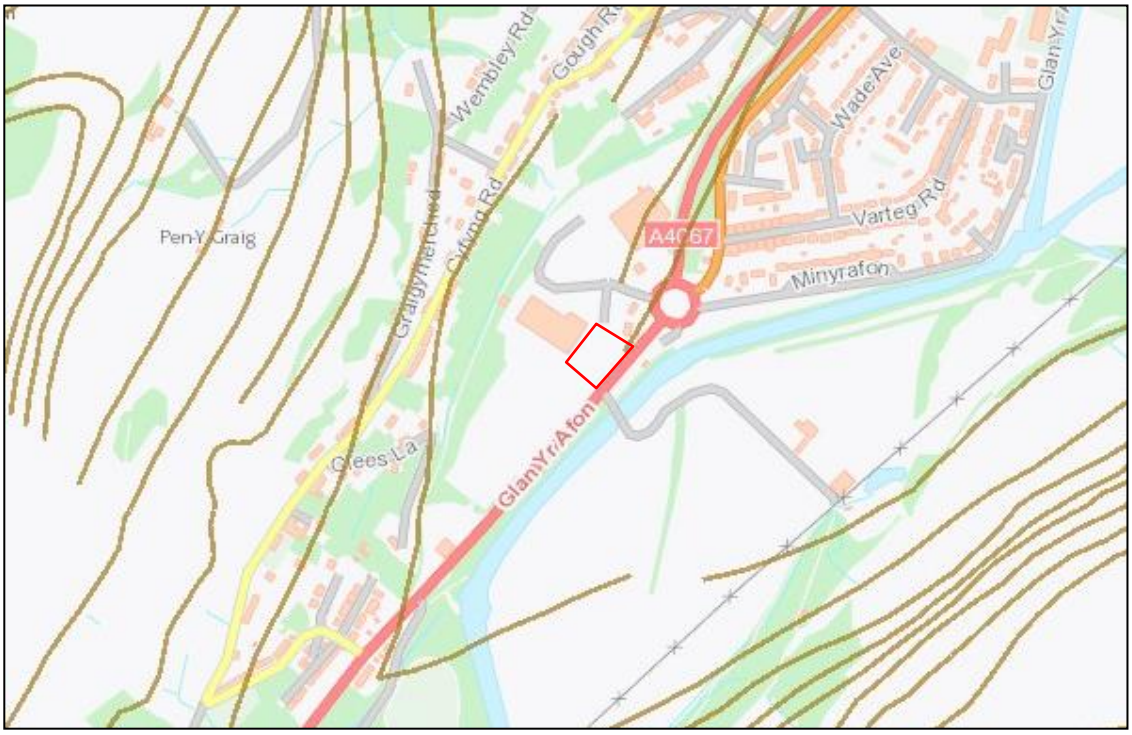


Figure 2.3 *Extract from the Coal Authority online viewer.*

Based on the above it is that the site has a very low risk from past underground mining.

The Coal Authority Mining Report can be found in **Annex B**.

2.3.3 Recorded Mineral Sites

There are three recorded BGS mineral sites within 250m of the site all of which are now inactive. The closest locates 119m to the west and is identified as Ystalyfera Return Slant and was exploiting deep underground coal.

The next locates 169m to the north west and is identified as Cwar Pen-Y-Graig. This location was exploiting sandstone by opencast methods.

The final occurrence called Pwlbach, locates 231m to the north of the site. This was exploiting deep underground coal.

2.3.4 Radon

The Envirocheck datasheet and maps (**Annex C**) detail that the site is in a lower probability radon area, as less than 1% of homes are estimated to be at or above the action level.

NO radon protection is required for new development on the investigation site.

2.4 Environmental Setting

The following sections have been compiled using the Envirocheck datasheet and maps which can be found in **Annex C**.

2.4.1 Hydrogeology and Hydrology

The nearest surface water feature to the site is identified 33m to the south and this corresponds with the River Tawe. The River Tawe is the dominant surface water feature in the area located in the base of the valley and flowing in a south westerly direction.

The topography of the site and surrounding area is generally flat. Surface and shallow groundwater beneath the site is likely to flow in a south easterly direction towards the River Tawe. Given the semi-developed nature of the surrounding area surface water is likely to be collected by surface drainage systems with a portion infiltrating through undeveloped land.

Deeper groundwater flow within the underlying bedrock will be controlled by the strata dip and any fractures or bedding planes within the rock units. In the wider area historic mining features may also be conduits for groundwater flow.

The hydraulic gradient will be at its steepest during periods of heavy rainfall and aquifer recharge.

The bedrock and superficial deposits beneath the site have an aquifer designation of ‘Secondary A’. These 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”.

2.4.2 Groundwater

There are no groundwater source protection zones within 1km of the site.

There is one groundwater abstraction point within 1km of the site. This locates 706m to the north of the site and is operated by Thomas & Sons (Minerals) Limited for water bottling. The abstraction point is a spring within the factory boundaries.

There are three discharge consents recorded within 500m of the site. The two nearest locate 41m and 56m to the south of the site. These are operated by Welsh Water and are classified as sewage discharges (storm overflow) to the Afon Tawe. The third locates 243m to the east and has expired.

2.4.3 Flooding

The flood maps provided by Envirocheck show that the western and central areas of the site is at risk of flooding from rivers. This area however is benefitting from the protection of flood defences. The remaining areas of the site, the north eastern and south eastern corners of the site are seen to be in an area at risk of extreme flooding. The flooding is associated with the River Tawe.

The maps also show that there is the potential for surface water flooding to occur along the western boundary of the site.

The site falls in an area where there is potential for groundwater flooding to occur at the surface.

2.4.4 Landfills and Infilled Land

There is one recorded historic landfill site which locates 59m to the south east of the site. The site is identified as Ystalyfera Iron Works and no further information is provided.

There are no active landfills within 250m of the site.

The site falls in an area of potentially infilled land (non-water) this is believed to be associated with the construction of the works or associated with its activities. A second occurrence is present within 250m located 1873m to the north.

There is one occurrence of potentially infilled land (water) located 147m to the north west. This corresponds with the locations of the Swansea Canal.

2.4.5 Pollution

There are no entries on the Contaminated Land Register within 1km of the site.

There has been one recorded pollution incident to controlled water which locates on site. This occurred on the 16th October 1997 and involved crude sewage caused by a blocked sewer. The incident was classified as category three, minor.

There are a further 13 incidents within 250m of the site, the majority of which involved crude sewage. Further details can be found in the Envirocheck datasheet.

There is one record on the substantiated pollution incident register within 250m of the site. This locates 74m south and occurred on 27th January 2005. The pollutant was identified as grey water and the impact to water was significant (category 2), to land was minor (category 3) and there was no impact to air (category 4).

2.4.6 BGS Estimated Soil Chemistry

The BGS have published anticipated soil concentrations for several common contaminants and the estimated concentrations are listed below:

Arsenic:	15 - 25 mg/kg
Cadmium	<1.8 mg/kg
Chromium	60 - 90 mg/kg
Lead	<100 mg/kg
Nickel	15 - 30 mg/kg

The estimated concentrations are below residential (with plant uptake) guidelines.

2.4.7 Contemporary Trade Directory

There are four entries on the contemporary trade directory within 250m of the site two of which are active. The nearest active entry is recorded as I & G Engineering (Precision Engineers) which is located 22m to the north west.

The other entries include:

- Felindre Innovations, Fishing and Angling Equipment Manufacturers & Distributors: **Inactive**
- Asda Petrol Filling Station: **Active** (described further over leaf)
- W J Harris, Wrought Ironwork: **Inactive**

2.4.8 Fuel Station Entries

There is one fuel station recorded and this is located 97m to the north east of the site. It is recorded as Asda Ystalyfera Automat operated by Asda and is active/open.

2.4.9 Sensitive Land Use

The Envirocheck Report details 10 areas of ancient woodland within 1km of the site. The nearest locates at 373m to the east of the site.

SECTION 3 Anticipated Ground Conditions

No borehole data is available for the immediate area and the anticipated ground conditions beneath the site are based on experience of the local area and the desk study information.

Made ground is anticipated to be present across the site associated with the former metal works that was present. This is likely to comprise granular material and possibly reworked natural soils with a component of clinker / slag and other man-made materials.

The superficial deposits across the site are identified as alluvium which can be variable in consistency and composition. This alluvium is associated with the River Tawe and is likely to comprise sands and gravels with varying quantities of clay, silt, cobbles, and boulders.

The superficial deposits will be underlain by bedrock which is likely to comprise a thickness of weathered mudstone over more competent rock.

SECTION 4 Preliminary Human Health and Environmental Risk Assessment

4.1 General

The contaminated land regime is set out in Part IIA of the Environmental Protection Act (EPA) 1990 and was introduced on the 1st April 2000 in England and 1st July 2001 in Wales. A similar regime was introduced in Scotland on 14th July 2000. Part IIA was introduced to achieve two aims:

(1) The identification of contaminated land
(2) The remediation of contaminated land that poses an unacceptable risk to human health and/or the environment

Under Part IIA the statutory definition of 'contaminated land' is any land which appears to the local authority in whose area it is situated, to be in such a condition, by reason of substances in, on, or under the land, that:

(a) Significant harm is being caused or there is a significant possibility of such harm being caused; or
(b) Pollution of controlled waters is being, or is likely to be, caused."

For land to be classified as 'Contaminated Land' there must be a 'pollutant linkage'.

For our definitions of pollution linkage and how we define risk please refer to **Annex D** which includes our classifications of consequence and probability and risk assessment matrix.

4.2 Preliminary Site Conceptual Model

The preceding sections enable a preliminary conceptual model of the site to be drawn up, to illustrate the likely ground conditions beneath the site together with a preliminary assessment of the nature of any underlying aquifers and groundwater movement. The preliminary site conceptual model is used as a model for the design and implementation of the site investigation, whereby areas of potential contamination can be targeted as well as investigating the site as a whole.

4.3 Potential Sources of Contamination and Gas

The potential contamination beneath the site, whether in the matrix of soil or groundwater is related to the sites past use. The site has been in an area associated with the Ystalyfera metal works and therefore has an industrial history.

A pathfinder suite of determinants including metals and semi-metals should be undertaken. Due to the sites industrial history it would also be prudent to undertake testing for polycyclic aromatic hydrocarbons and petroleum hydrocarbons. As rail infrastructure has been present testing for PCBs should also be included.

Where made ground is encountered an asbestos screen should also be undertaken and if a positive result is returned further quantification should be done.

The historic landfill is a potential offsite source of contamination in the form of gases. There is no information on the type of waste the landfill is recorded as receiving but the historic maps indicate that it was associated with the metal works.

If the made ground on site is of a significant thickness and contains putrescible materials it may be a source of ground gas.

4.4 Potential Receptors and Pollution Pathways

There are human and hydrological receptors to any contamination that may be present on site.

Construction workers will be excavating in soils and will be exposed via dermal contact with soils and dust, ingestion of soil dust and inhalation of soil dust.

A commercial end use is proposed. Once developed, future site users (staff and visitors) will potentially be at risk from contaminated soils through the same pathways as well as though consumption of potable drinking water. Landfill gas, ground gas, mine gas and radon gas may also present a risk to site end users through inhalation or from the risk of explosion of gases in confined spaces.

Neighbouring site users and passers-by may potentially be exposed to soil dust.

If contamination is identified it may be leachable, enabling it to mobilise through perched groundwater within site soils and impact on deeper groundwater or surface water.

A Preliminary Human Health and Environmental Risk Assessment summarises the above and is detailed in the **Table 4.1** and **Table 4.2.**

4.5 Preliminary Human Health and Environmental Risk Assessment

Table 4.1 Preliminary Human Health Risk Assessment

Potential Source	Potential Pathway	Potential Target	Preliminary Risk Assessment
Human Health			
Site Soil	Dermal contact with soil, ingestion of soil/soil dust, inhalation of soil dust	Construction workers	**Low to Moderate Risk** COSHH assessment and good level of PPE/ hygiene by site workers/ staff; dust suppression measures if required
Site Soil	Dermal contact with soil, ingestion of soil/soil dust inhalation of soil dust	Passers - by/neighbouring site users	**Low Risk** The site has an industrial history, dust suppression if required
Site Soil	Dermal contact with soil, ingestion of soil/soil dust or site grown vegetables, inhalation of soil dust	Site End Users – Staff and visitors.	**Low to Moderate Risk** Made ground is anticipated to be present across the site associated with the metal works
Radon Gas from underlying bedrock	Migration into indoor air	Site End Users – Staff and visitors	**Negligible Risk** BGS Radon Report confirms NO radon protection measures required
Landfill gas	Migration through superficial deposits and bedrock and accumulation indoors	Site End Users – Staff and visitors	**Low to Moderate Risk** A recorded landfill is present within influencing distance of the site.
Ground gas	Direct from any made ground/buried organic matter on site and accumulation indoors	Site End Users – Staff and visitors	**Low Risk** Made ground is anticipated to be present on the site associated with its former use..
Mine Gas	From underground coal working and mine entries	Site End Users – Staff and visitors	**Low Risk** Underground workings are not anticipated and there are no mine entries in proximity
Volatiles	Migration into indoor air	Site End Users – Staff and visitors	**Low Risk** No source of volatile contamination is anticipated.
Site Soils	Permeation of drinking water pipes	Site End Users – Staff and visitors	**Very Low Risk** Correct water pipes to be chosen for the development.

4.5 Preliminary Human Health and Environmental Risk Assessment (Continued)

Table 4.2 Preliminary Environmental Risk Assessment			
Aquatic Environment			
Site Soils	Surface runoff and leaching of contamination into the perched groundwater	Perched groundwater beneath the site	**Low Risk** Significant contamination is not anticipated on the site.
Site Soils	Groundwater transport	River Tawe	**Low Risk** Significant contamination is not anticipated on the site.
Site Soils	Groundwater transport	Underlying Bedrock and Superficial Deposits Secondary A Aquifer	**Low Risk** Significant contamination is not anticipated on the site.
Building Materials			
Site Soils	Damage of building materials	New buildings	**Very Low Risk** Correct class of concrete to be chosen

4.6 Preliminary Illustrative Site Conceptual Model

The following illustration represents a theorised cross section through the site. The drawing is generalised and not to scale.

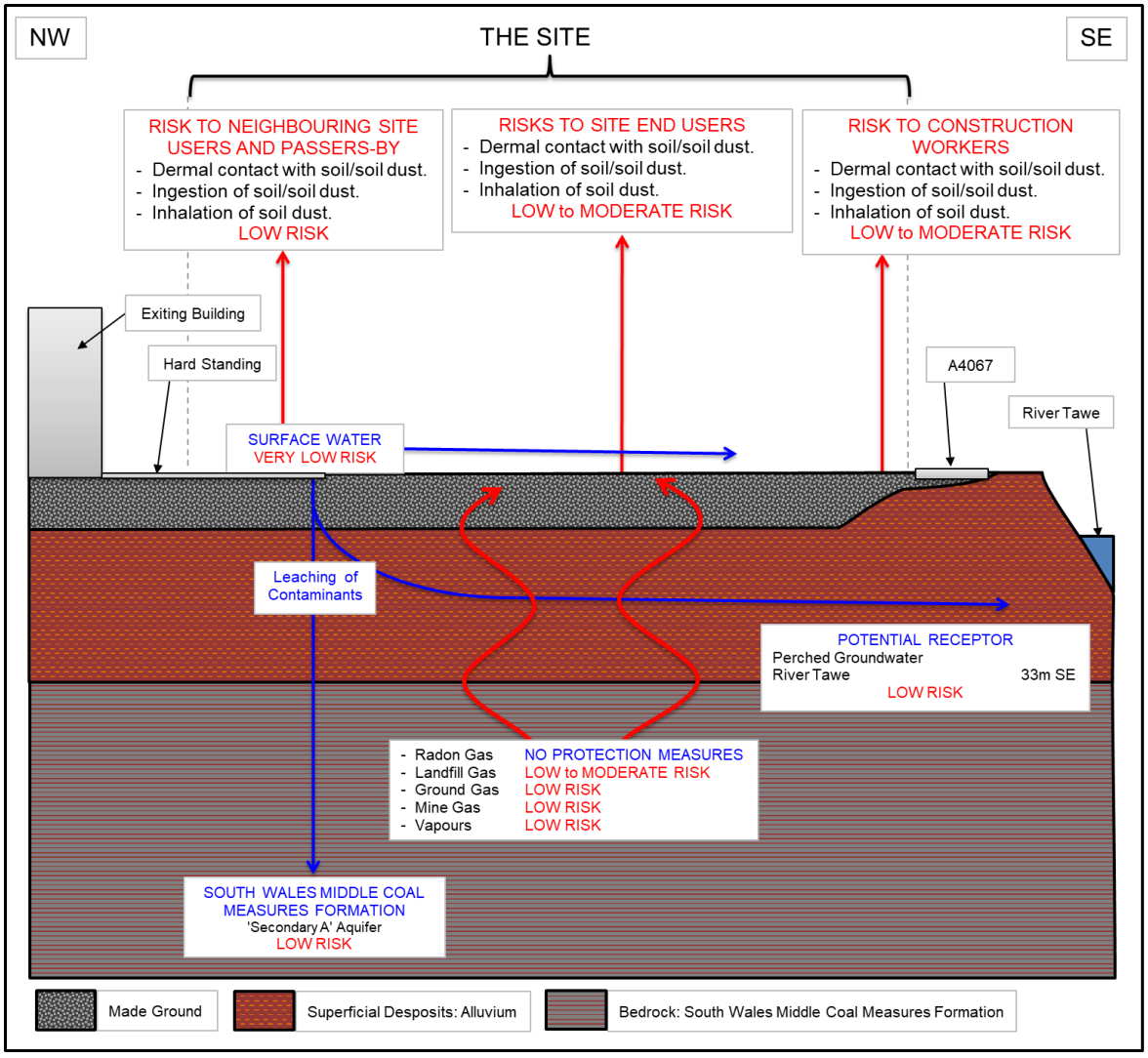


Figure 4.1 *Preliminary Illustrative Site Conceptual Model (not to scale)*

SECTION 5 Preliminary Engineering Recommendations

5.1 General

The preliminary recommendations given in the following sections are based on the available desk study information assuming the site will be redeveloped in the future and should be confirmed by the recommended scope of site investigation highlighted in **Section 6**.

5.2 Site Preparation

Any vegetation including all roots should be grubbed up and removed from beneath the underside of the proposed buildings and hard standing areas.

Any reduced levels should be brought up to the required levels with suitable inert mainly granular materials. Department of Transport (DoT) type 2 subbase or similar should be used and should be compacted in layers to the requirements of the Specification for Highway works.

Contingencies should also be made for the protection/diversion any underground services present beneath the site brought about because of the proposed works.

Allowances should be made for the excavation of any soft spots and their replacement with well compacted imported granular materials as previously described.

In accordance with EC Regulation 1272/2008 and Environment Agency Guidance WM3 soils and other materials destined for off-site disposal should be classified based on their hazard phrases prior to disposal. Soils are classified as a mirror entry waste and should be classified based on their specific chemical properties. Terra Firma offer this service if required.

5.3 Foundation and Floor Slab Solution

At present the exact ground conditions are unknown and should be confirmed with the recommended site investigation works.

Based upon the anticipated ground conditions it is considered that a reinforced concrete strip and trench fill foundation may be suitable for the future development. However, this is dependent on the required bearing capacity and the consistency of the superficial deposits which can be variable.

Floor slabs may be constructed as reinforced ground bearing if placed on a suitably thick layer of well compacted granular material. Alternatively, they can be constructed as suspended.

Alternative deeper non-traditional foundations may be required if the alluvium is of a lower strength or highly variable.

5.4 Excavations and Formations

Most of the shallow excavations should be possible with normal soil excavating machinery. However, allowances should be made for the use of hydraulic breaker attachments when excavating out buried obstructions which may be present in made ground associated with past structures. Shallow excavations my encounter groundwater flows given the proximity of the site to the river. Any inflows together with rainwater infiltration should be dealt with by conventional pumping techniques.

5.4 Excavations and Formations (Continued)

The sides of any excavations deeper than 1.0m should be supported by planking and strutting or other proprietary means.

The sub-formations/formations will be highly susceptible to loosening, softening and deterioration by exposure to weather (rain, frost, and drying conditions), the action of water (flood water or removal of groundwater) and site traffic. Formations should never be left unprotected and continuously exposed to rain causing degradation, or left exposed/uncovered overnight, unless permitted by a qualified engineer.

Construction plant and other vehicular traffic should not be operated on unprotected formations.

5.5 Protection of Buried Concrete

Within BRE Special Digest 1 the chemical agents that aggressively attack concrete are sulphate, sulphides, magnesium ions, ammonium ions, carbon dioxide, chloride ions and phenols.

Significantly aggressive ground conditions are not anticipated and at this stage it is recommended that, all buried concrete can as a minimum conform to ACEC Class AC-1 of BRE Special Digest 1 (2001), however, this should be confirmed by chemical testing.

SECTION 6 Recommended Site Investigation

6.1 General

An intrusive site investigation should be undertaken to achieve the following objectives:

- Identify the potential environmental liabilities at the site associated with any soil and groundwater contamination from past site uses.
- Provide a summary of the environmental conditions at the site, together with any necessary remediation works to render the site fit for its intended use.
- Determine the type, strength and bearing characteristics of the shallow superficial and underlying solid geology.
- Provide recommendations for a suitable and economic foundation/floor slab solution for future development.

6.2 Recommended Site Investigation

It is recommended that a trial pitting site investigation is undertaken, this will allow the shallow ground conditions (less than 4.00m) on the site to be identified. It will also allow the collection of samples for laboratory chemical and geotechnical testing as detailed below.

Should the consistency of the shallow deposits be such that shallow traditional foundations are not suitable then shell and auger boreholes will also be required.

Soil infiltration tests to the requirements of BRE 365 can also be undertaken in the trial pits to inform on the use of sustainable drainage systems. It is recommended that where possible the proposed location and depth of the intended soakaways is targeted. If this is not possible tests can be carried out across the site to give a broad preliminary understanding of the drainage potential however additional testing may then be required.

It will also be necessary to undertake gas monitoring as there is a landfill located within influencing distance of the site. The gas monitoring wells can be installed with a mini percussive/windowless sampling drilling rig. The gas monitoring programme should be designed in accordance with BS8576:2013. The mini percussive boreholes will also provide further data on the consistency of the underlying soils to between 5.00m and 7.00m where ground conditions allow.

6.3 Soil Sampling and Laboratory Analysis

Soil samples should be taken in accordance with BS5930:2015 for laboratory analysis in order to complete a robust quantitative human health and environmental risk assessment and to determine if and what remedial measures are necessary. Given the history of the site soil samples should be tested for the suite of substances listed on the following page.

Metals	**Semi Metals/Non-Metals**	**Inorganic Chemicals**
Cadmium	Arsenic	Cyanide
Chromium	Selenium	Sulphate
Lead		
Mercury	**Organic Chemicals**	**Others**
Nickel	Phenol	pH
Zinc	Polyaromatic Hydrocarbons (PAH)	Asbestos ID
Copper	Petroleum Hydrocarbons (TPH CWG)	
	Polychlorinated Biphenyl (PCB)	

6.3 Soil Sampling and Laboratory Analysis (Continued)

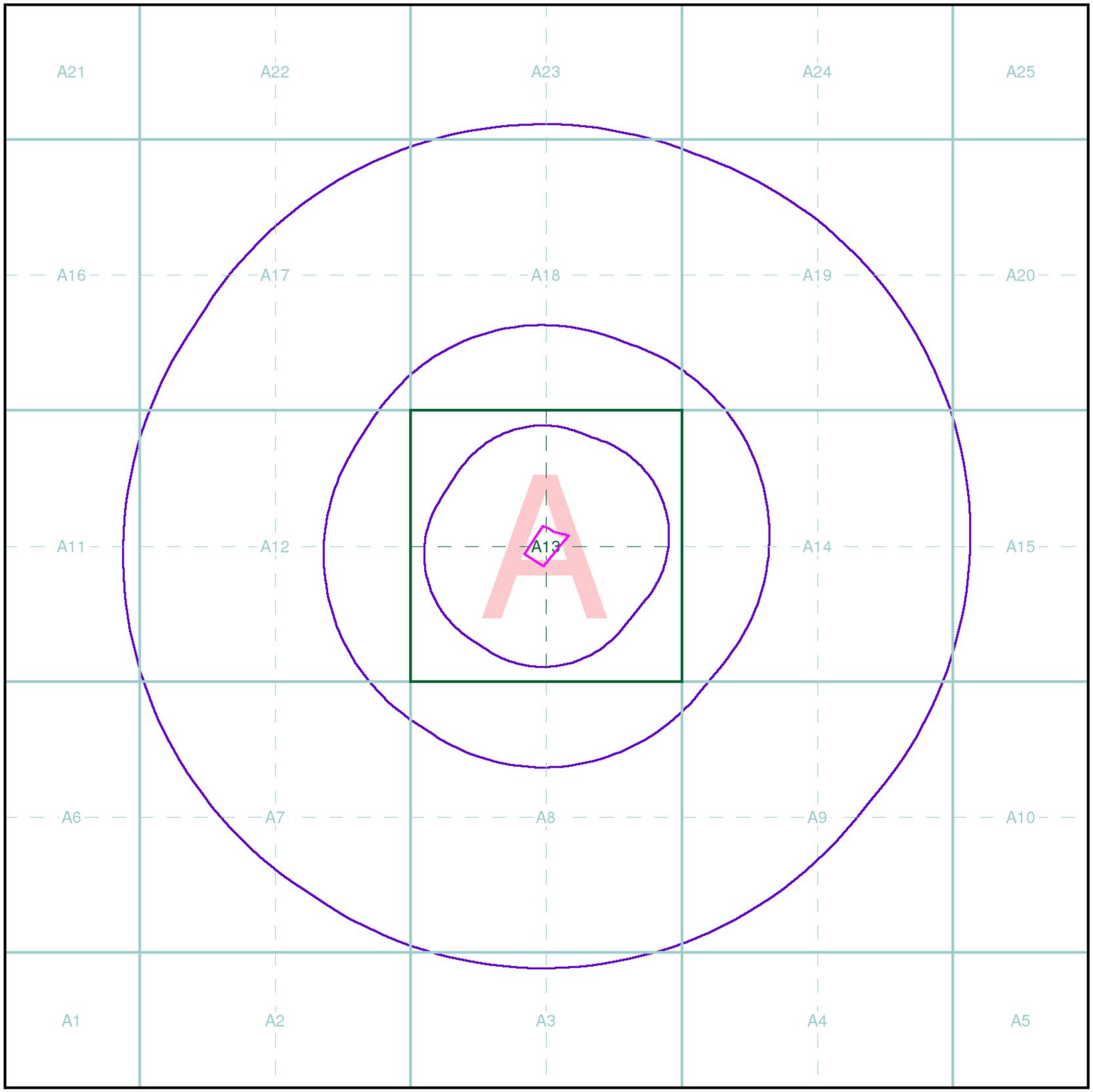
All made ground / waste materials should be screened for asbestos in the first instance. Any positive identification will require quantification either by gravimetric or polarised light optical microscopy methods.

Depending on the presence of any unexpected made ground / waste materials, more comprehensive chemical testing may be required. The list is not exhaustive and needs to be determined specific to the findings of the ground investigation.

If contamination is identified it may be necessary to undertake leachate testing to determine the risk to the aquatic environment.

In addition to the above if clay soils are encountered it would be prudent to undertake geotechnical testing to determine the soils plasticity.

ANNEX A
Envirocheck Historical Maps



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 A Beattie, Terra Firma (Wales) Ltd, 5 Deryn Court, Wharfdale Road, Pentwyn, Cardiff, CF23 7HB

Order Details

Order Number:	243530586_1_1
Customer Ref:	16035 - Ystalyfera
National Grid Reference:	276500, 208220
Site Area (Ha):	0.55
Search Buffer (m):	1000

Site Details

Swansea Valley Business Park, Ystalyfera, Swansea

Full Terms and Conditions can be found on the following link:
http://www.landmarkinfo.co.uk/Terms/Show/515

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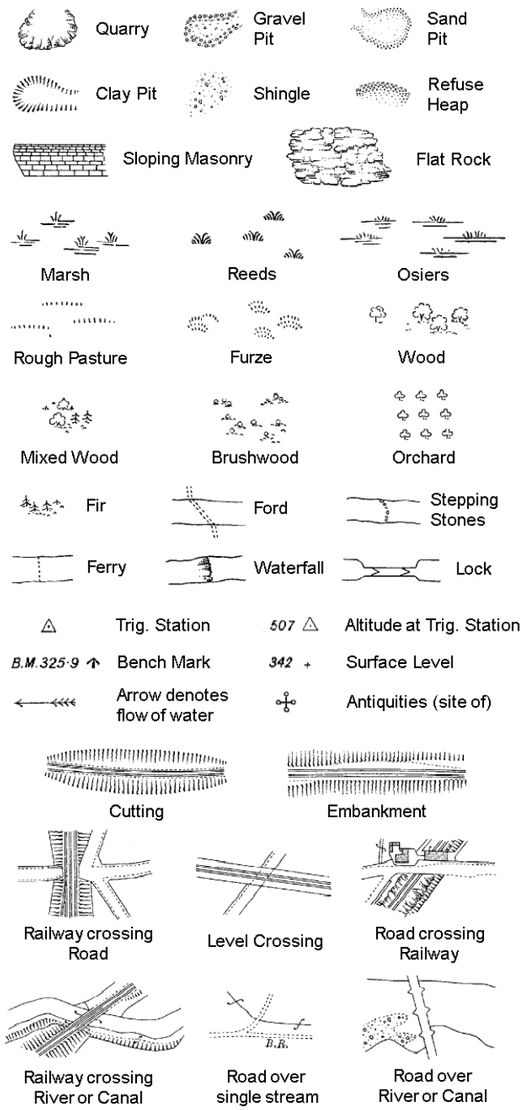
Web: www.envirocheck.co.uk

Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

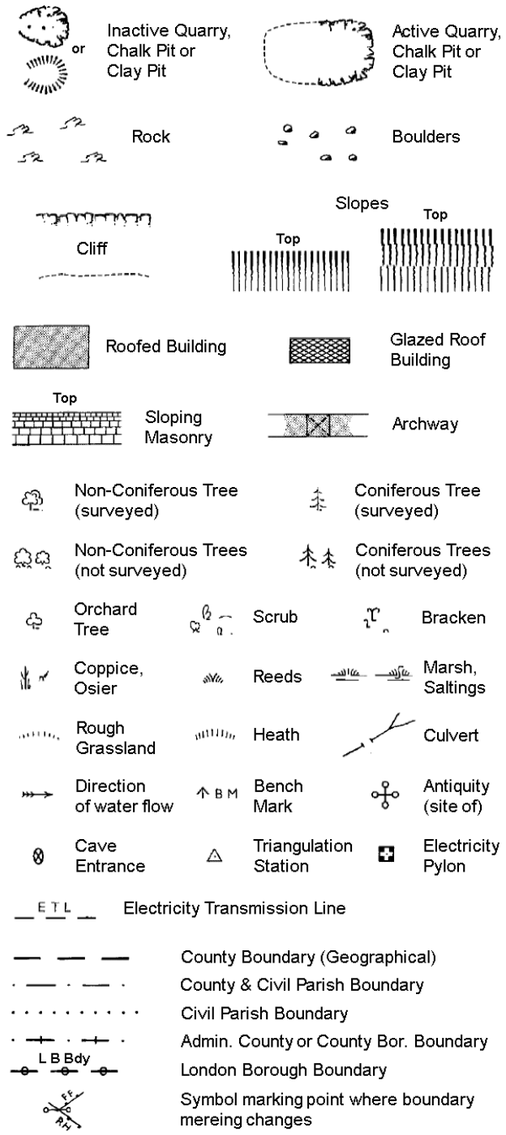
Administrative County & Civil Parish Boundary

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

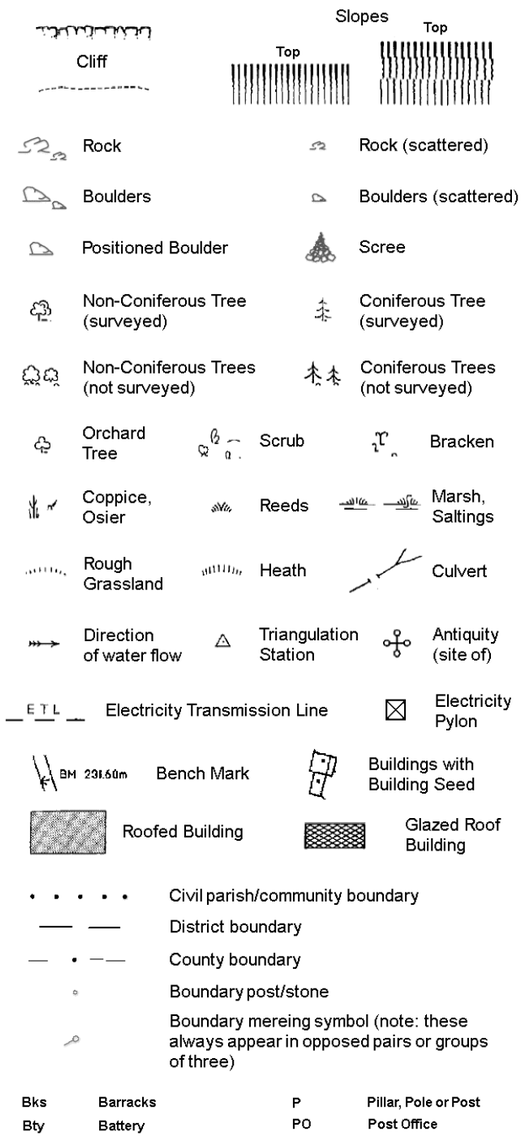
Admin. County or County Bor. Boundary

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

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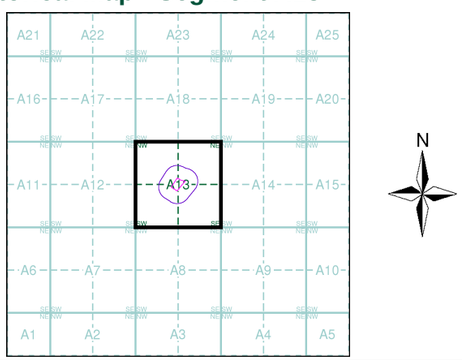
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1877 - 1878	2
Brecknockshire	1:2,500	1878	3
Glamorganshire	1:2,500	1899	4
Brecknockshire	1:2,500	1905	5
Brecknockshire	1:2,500	1918	6
Glamorganshire	1:2,500	1918	7
Ordnance Survey Plan	1:2,500	1961 - 1962	8
Ordnance Survey Plan	1:2,500	1977	9
Additional SIMs	1:2,500	1979 - 1983	10
Additional SIMs	1:2,500	1989	11
Large-Scale National Grid Data	1:2,500	1993	12
Large-Scale National Grid Data	1:2,500	1995	13
Historical Aerial Photography	1:2,500	2001	14

Historical Map - Segment A13



Order Details

Order Number: 243530586_1_1
Customer Ref: 16035 - Ystalyfera
National Grid Reference: 276500, 208220
Slice: A
Site Area (Ha): 0.55
Search Buffer (m): 100

Site Details

Swansea Valley Business Park, Ystalyfera, Swansea

Landmark INFORMATION GROUP
Tel: 0844 844 9952
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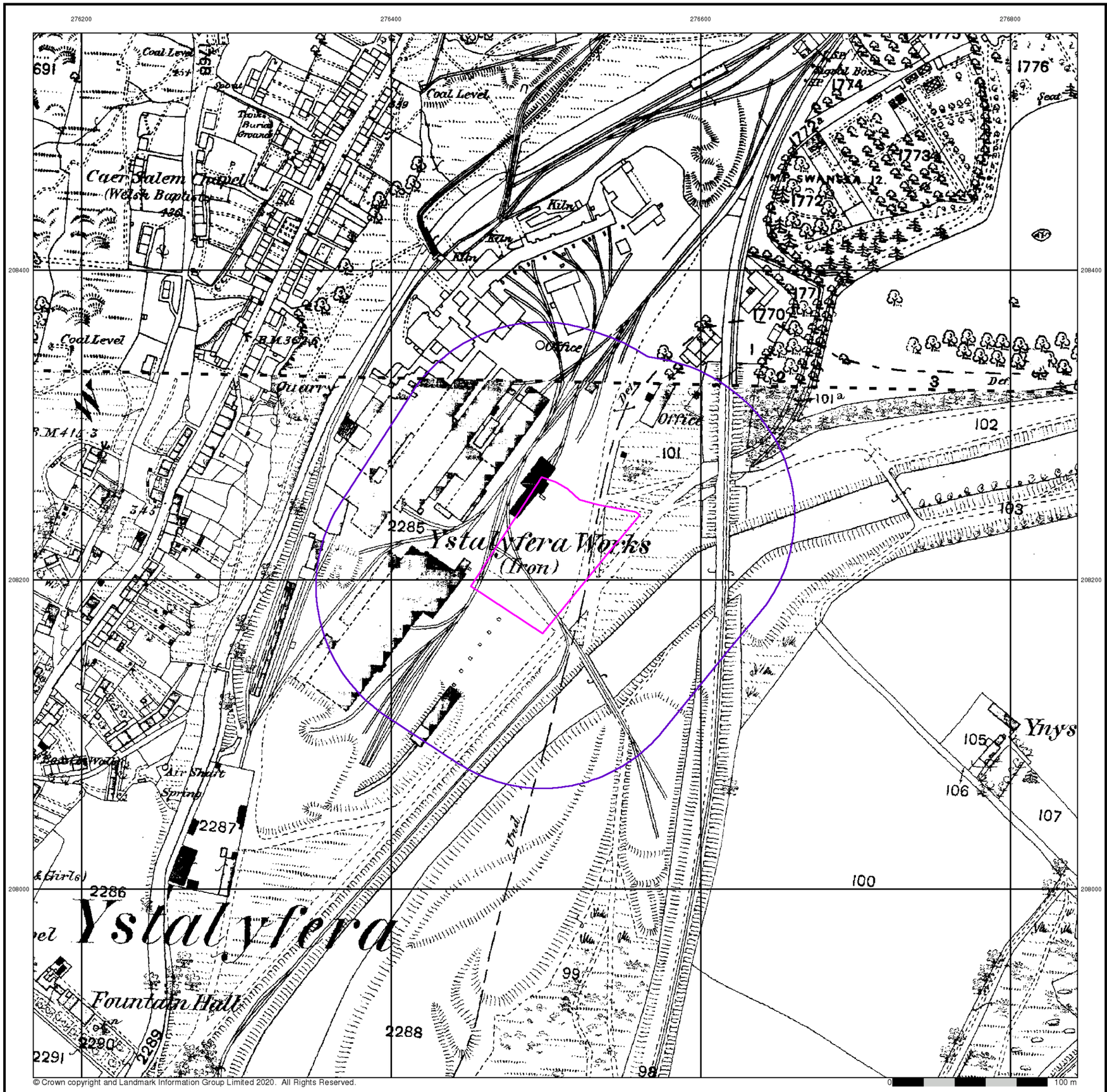

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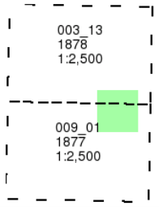
Glamorganshire

Published 1877 - 1878

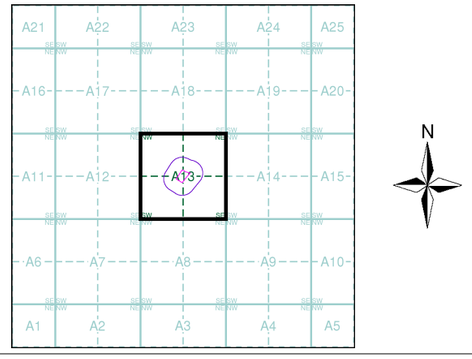
Source map scale - 1:2,500

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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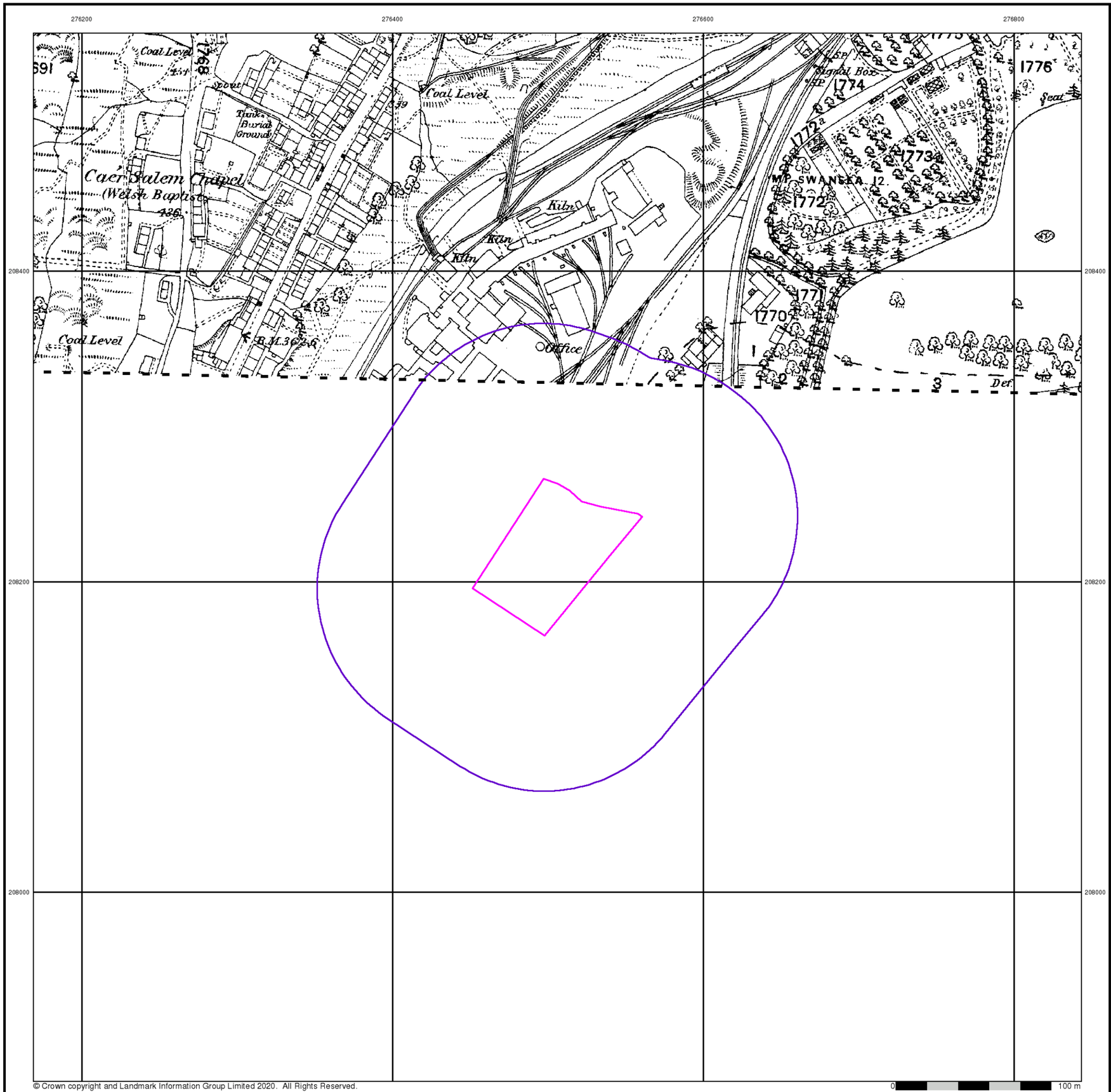

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Brecknockshire

Published 1878

Source map scale - 1:2,500

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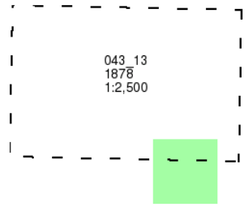

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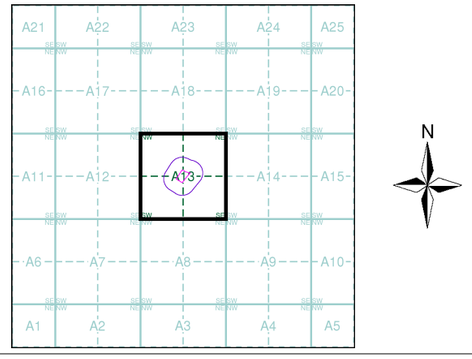

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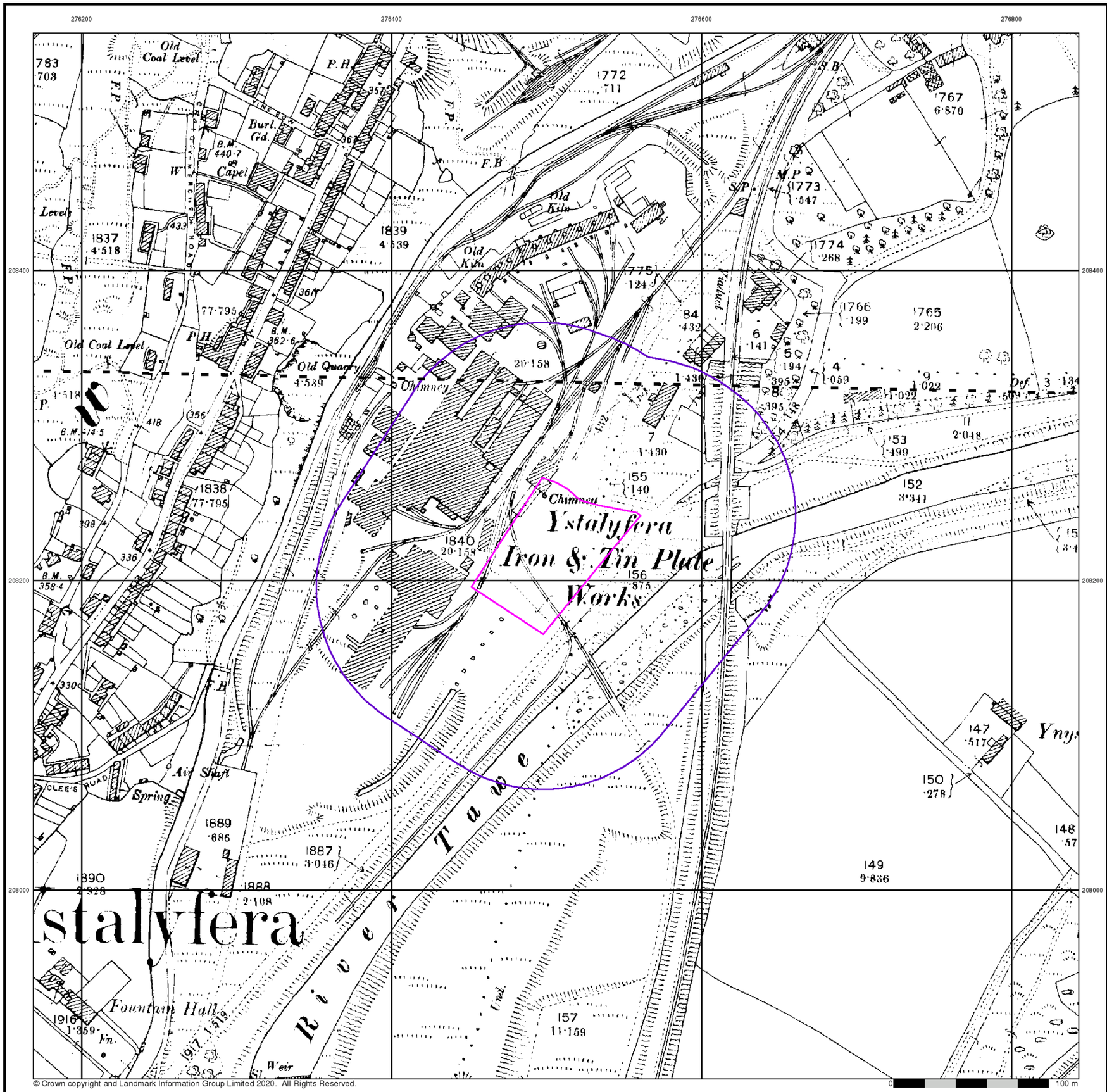

0 100 m

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Glamorganshire

Published 1899

Source map scale - 1:2,500

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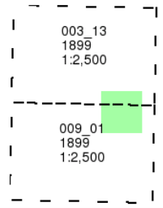

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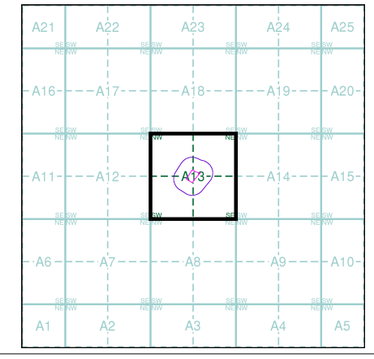

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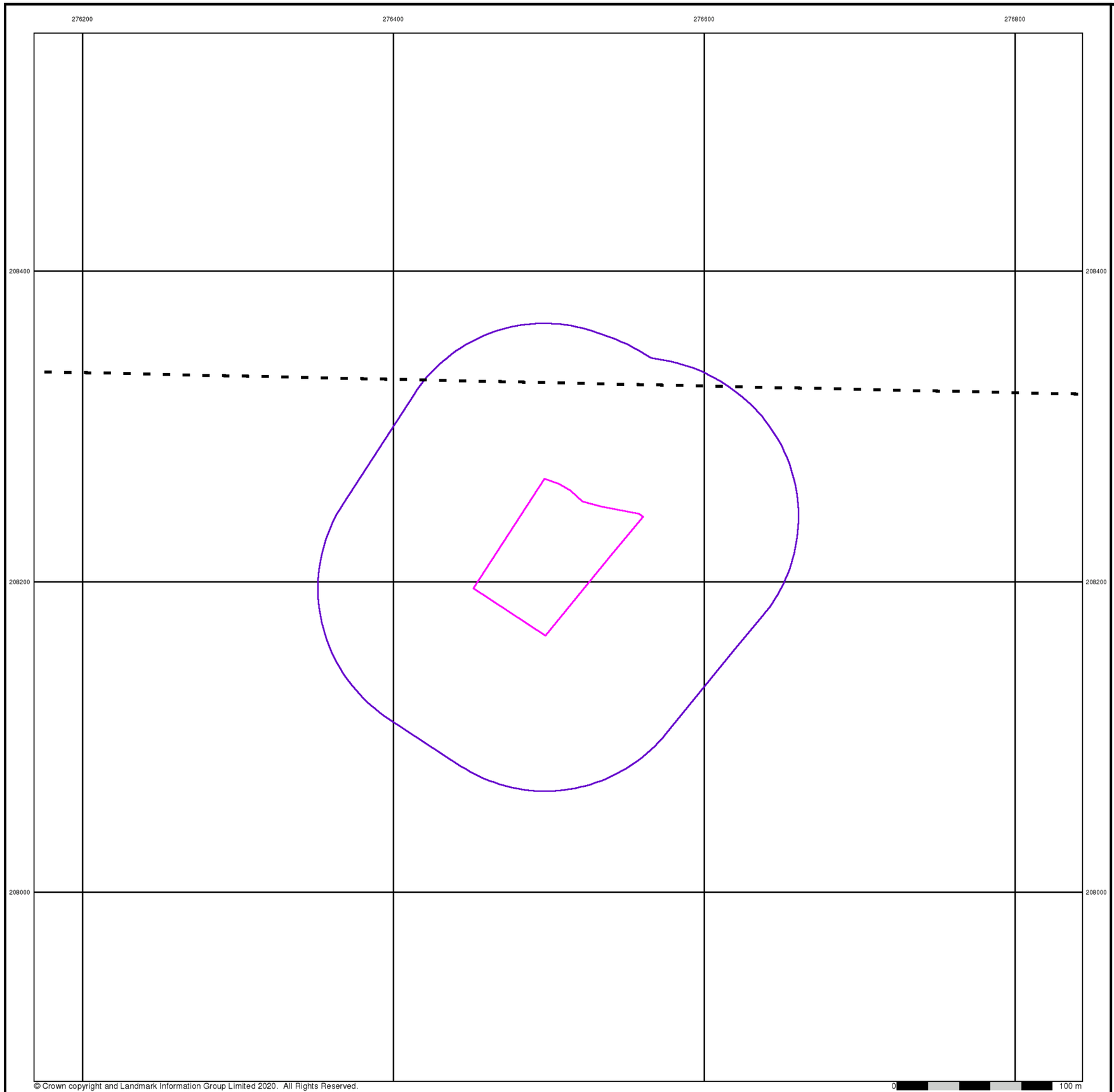

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Brecknockshire

Published 1905

Source map scale - 1:2,500

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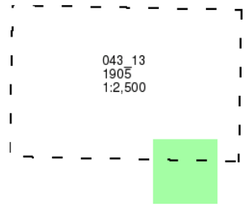
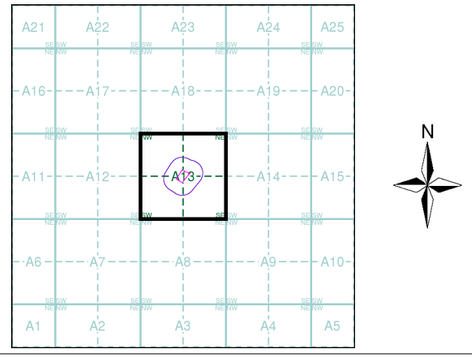


Historical Map - Segment A13



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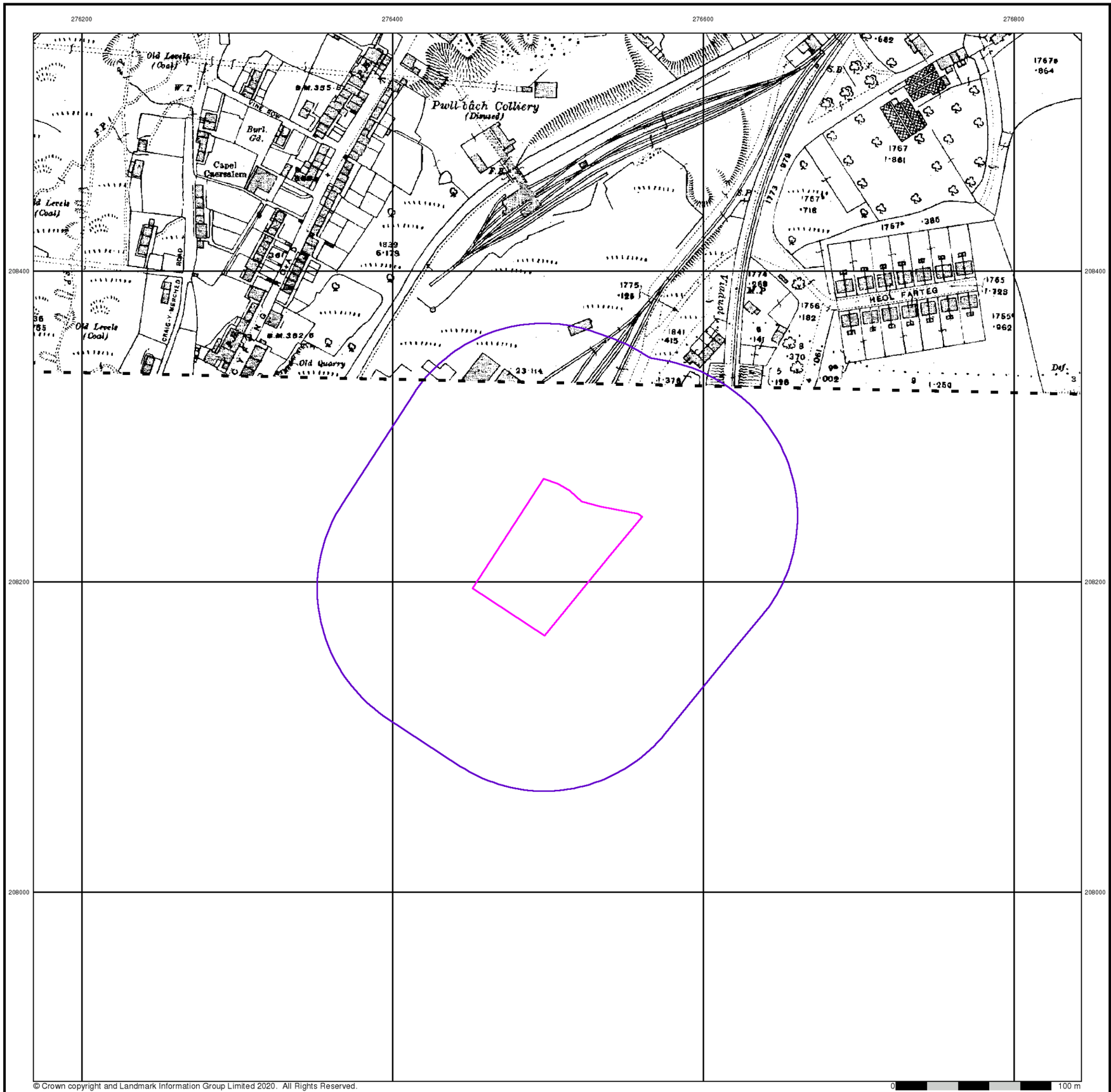

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Brecknockshire

Published 1918

Source map scale - 1:2,500

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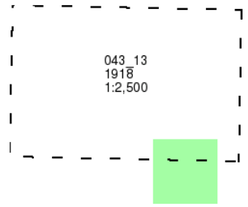
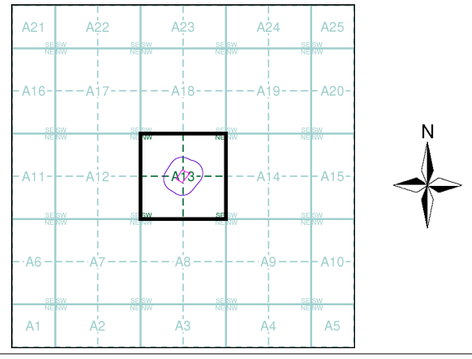


Historical Map - Segment A13



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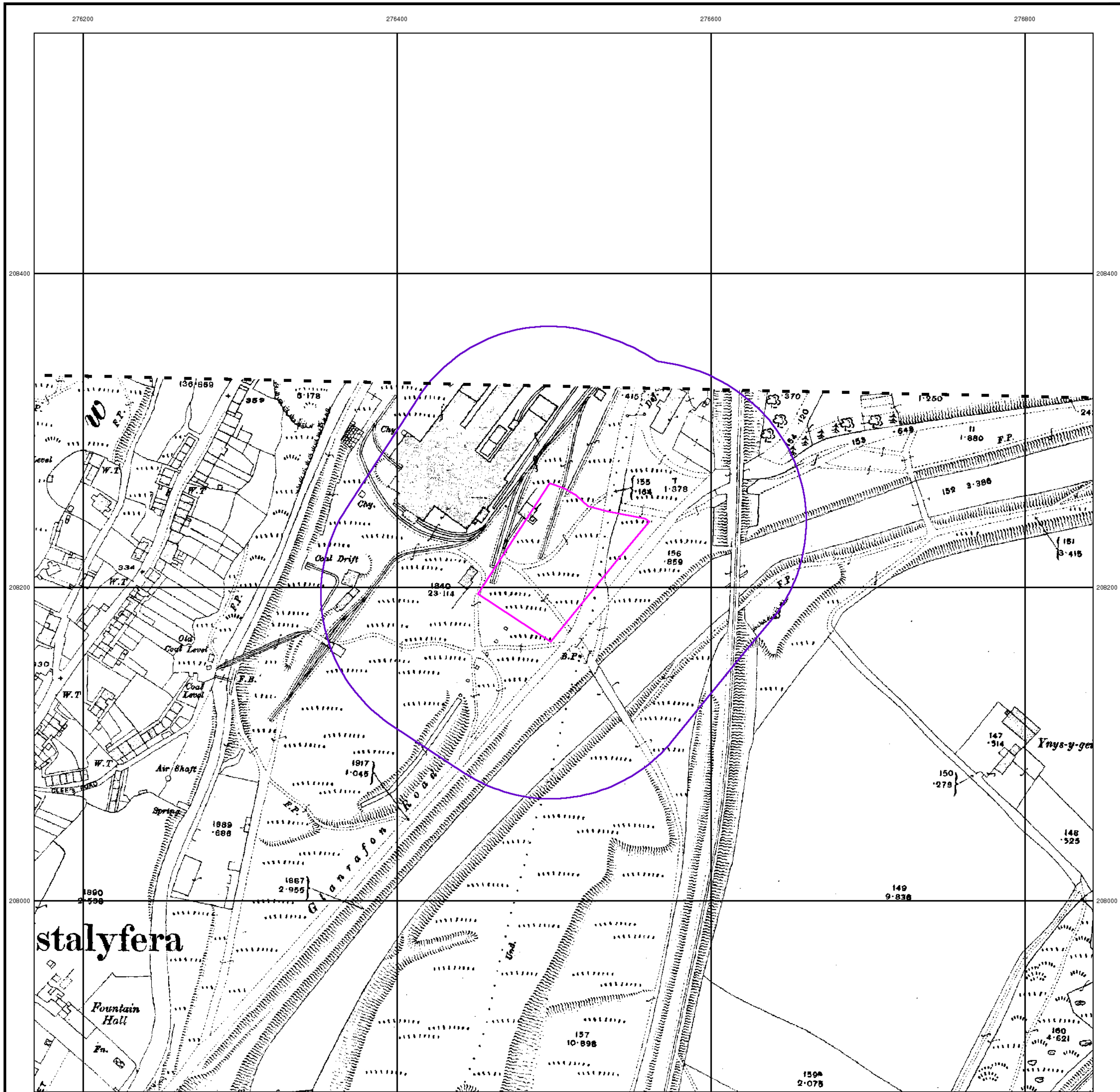

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Glamorganshire

Published 1918

Source map scale - 1:2,500

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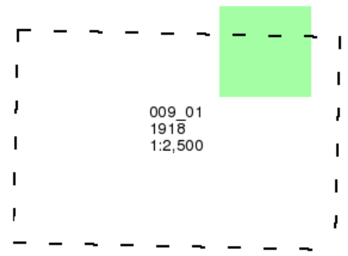
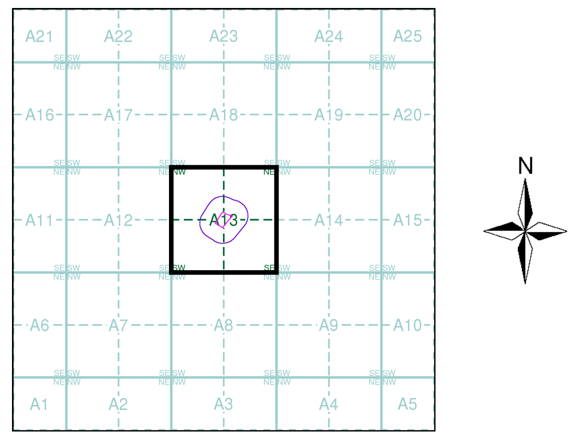


Historical Map - Segment A13



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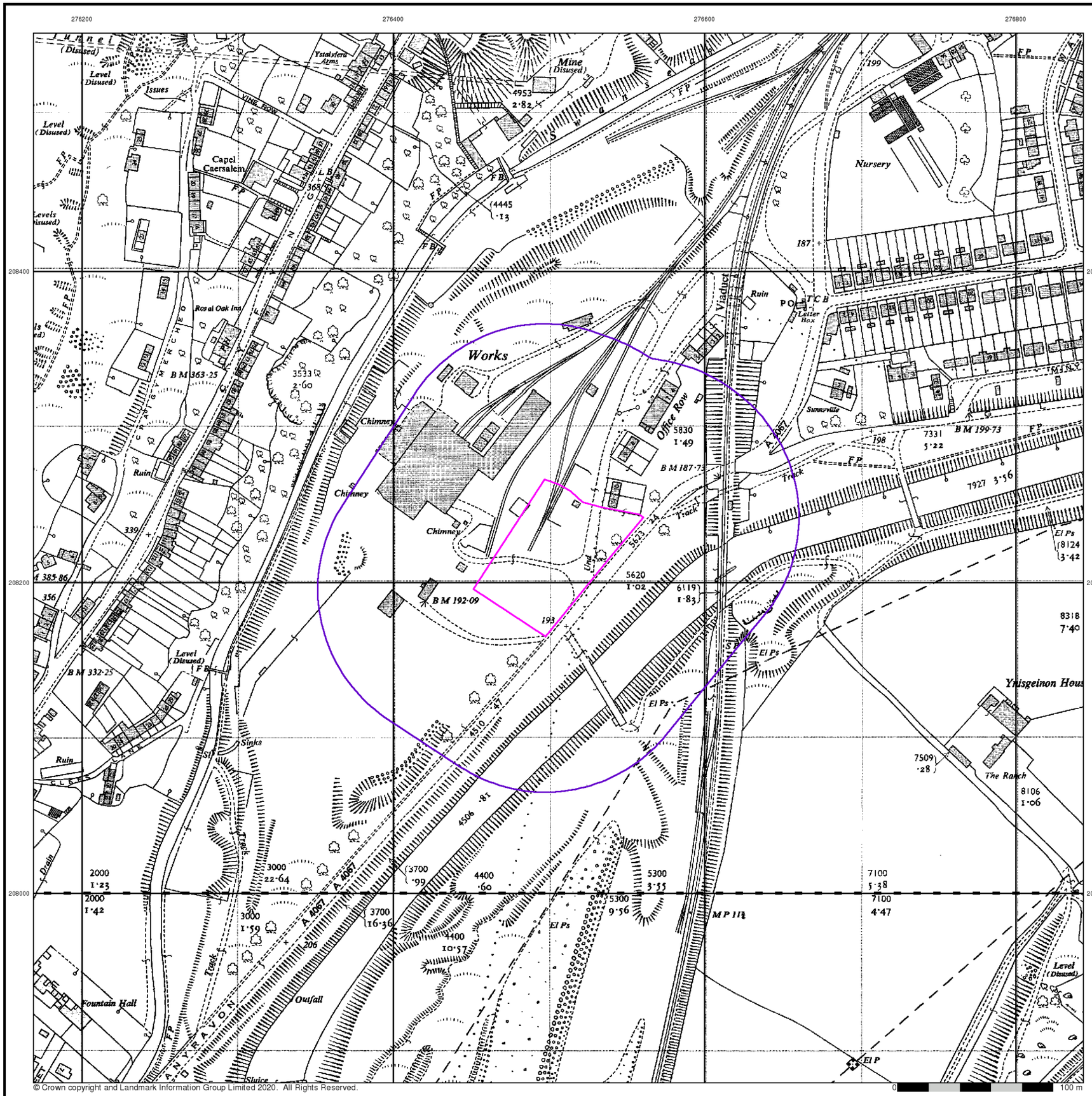

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Ordnance Survey Plan

Published 1961 - 1962

Source map scale - 1:2,500

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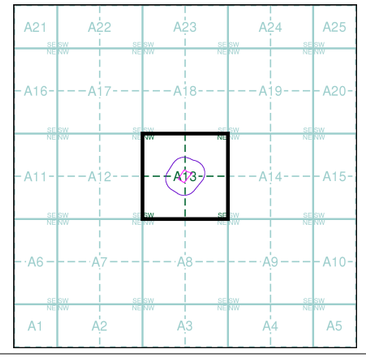
Map Name(s) and Date(s)

SN7608
1962
1:2,500

SN7607
1961
1:2,500

Historical Map - Segment A13



Order Details

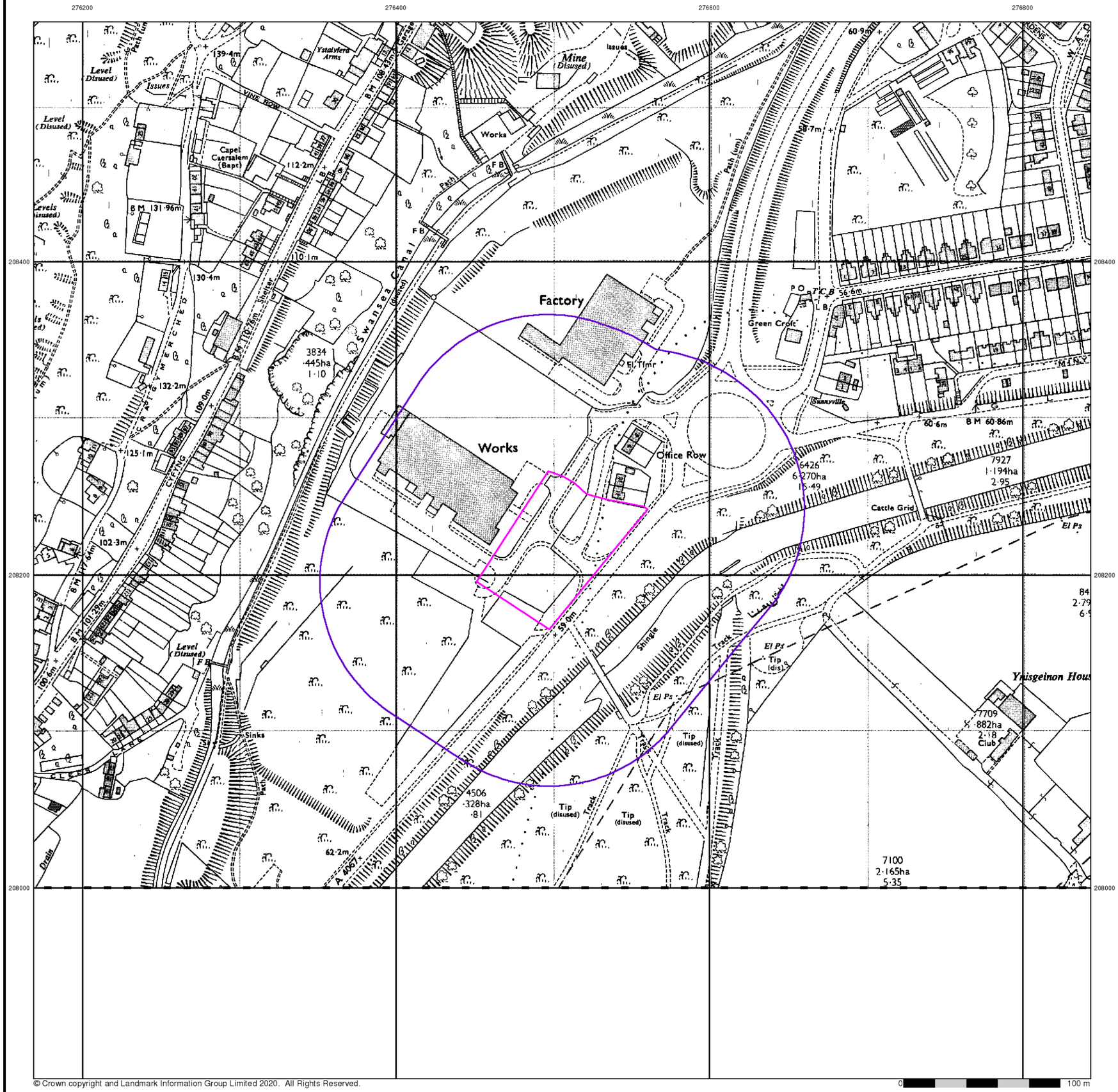
Order Number:	243530586_1_1
Customer Ref:	16035 - Ystalyfera
National Grid Reference:	276500, 208220
Slice:	A
Site Area (Ha):	0.55
Search Buffer (m):	100

Site Details

Swansea Valley Business Park, Ystalyfera, Swansea

Landmark INFORMATION GROUP

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



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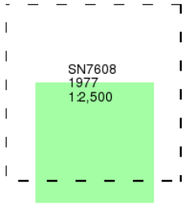
Ordnance Survey Plan

Published 1977

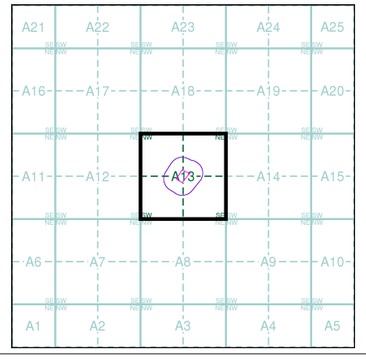
Source map scale - 1:2,500

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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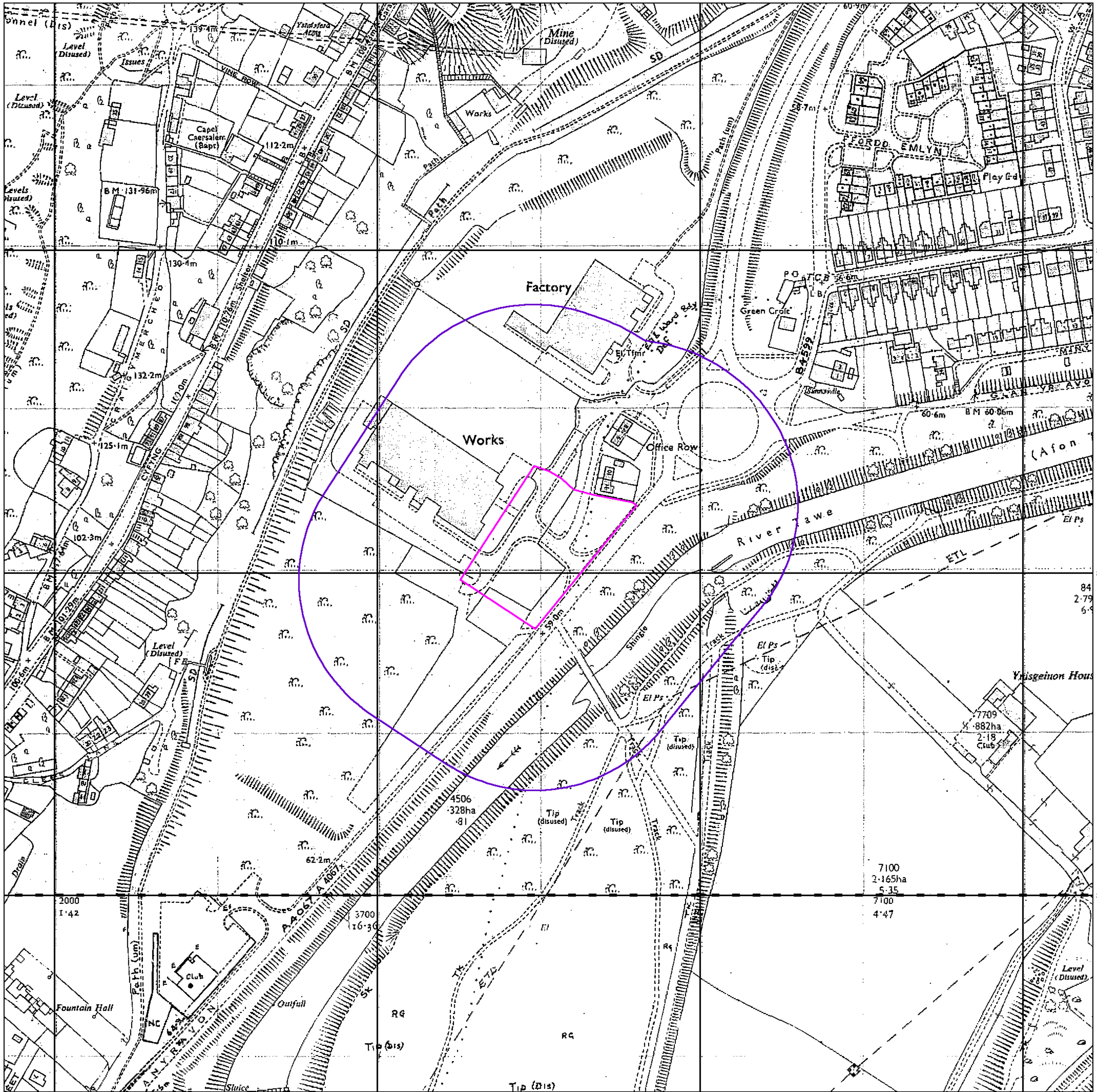

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Additional SIMs

Published 1979 - 1983

Source map scale - 1:2,500

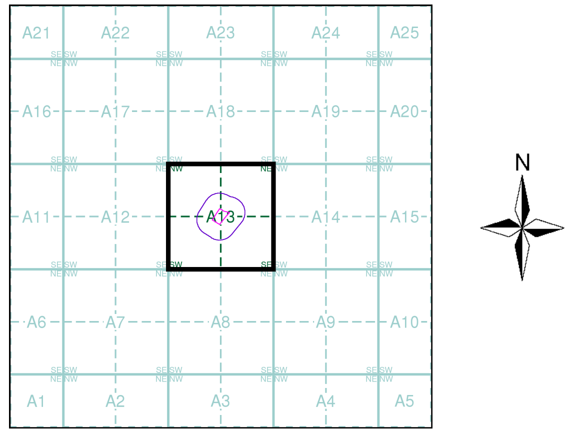
The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SN7608
1983
1:2,500

SN7607
1979
1:2,500

Historical Map - Segment A13



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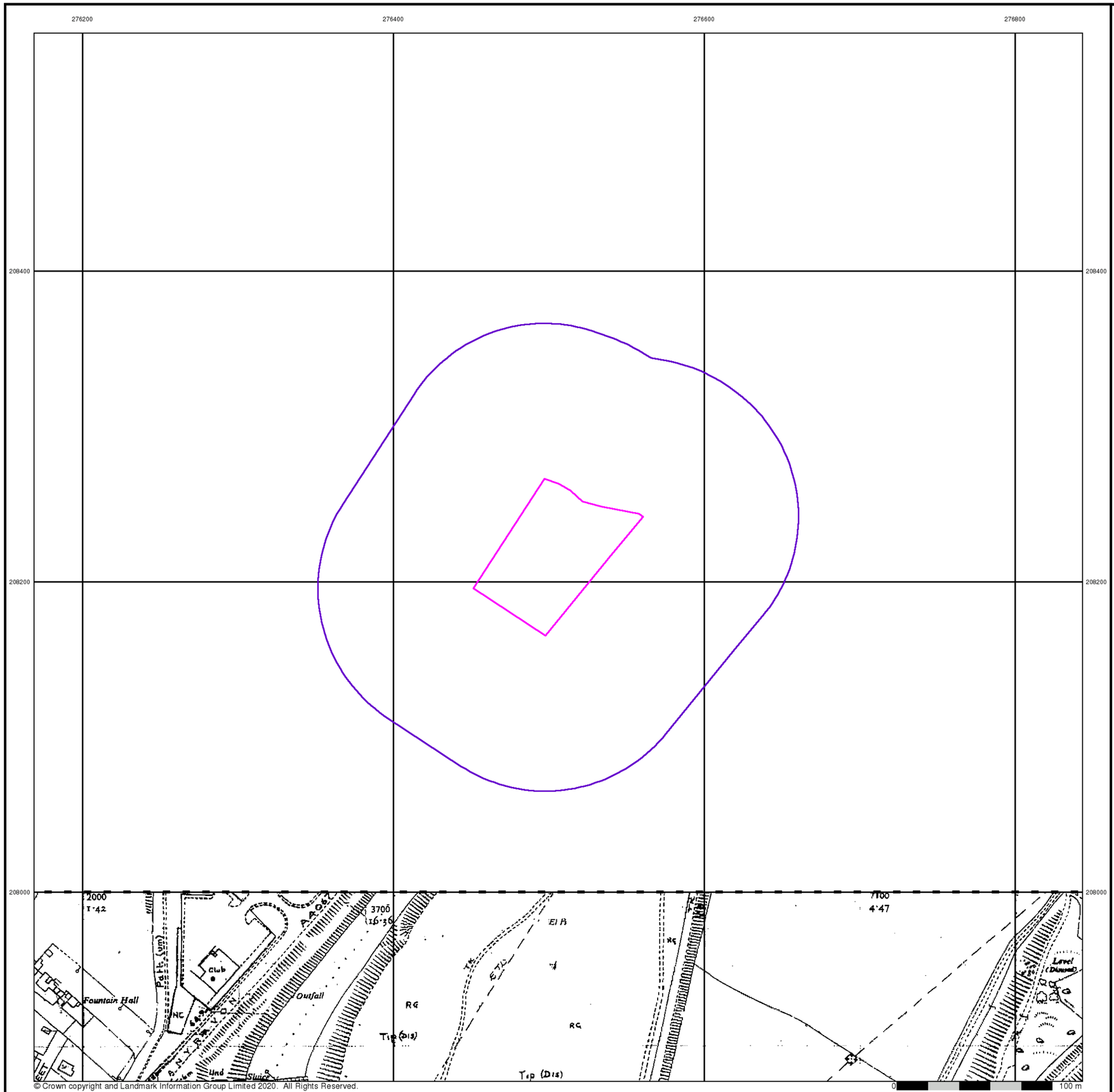

0 100 m

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Additional SIMs

Published 1989

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.

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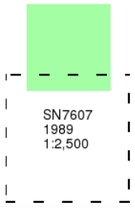
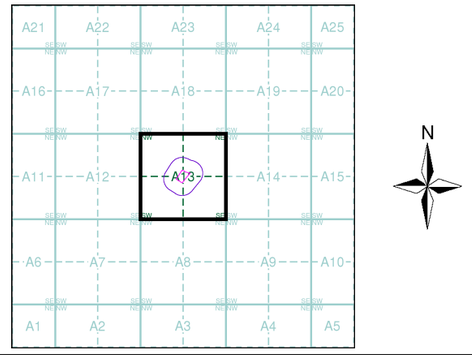


Historical Map - Segment A13



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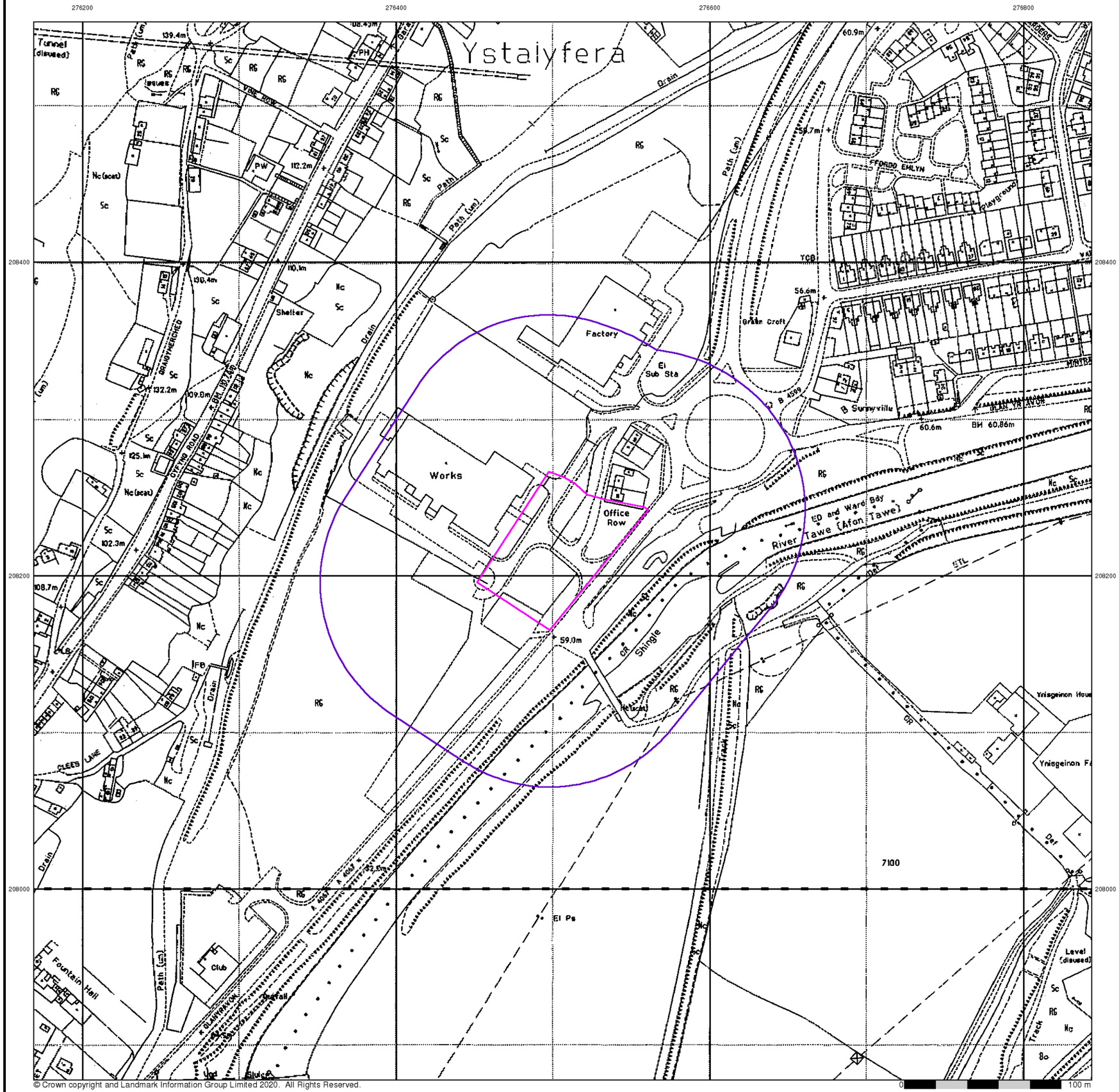

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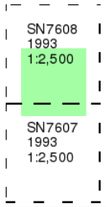
Large-Scale National Grid Data

Published 1993

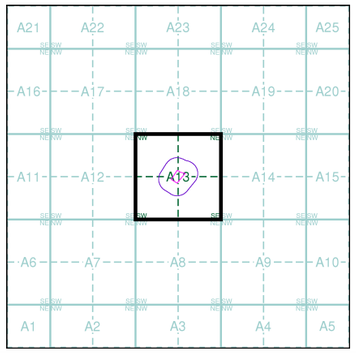
Source map scale - 1:2,500

'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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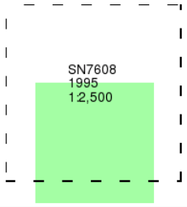
Large-Scale National Grid Data

Published 1995

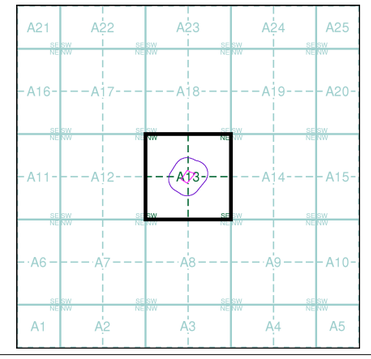
Source map scale - 1:2,500

'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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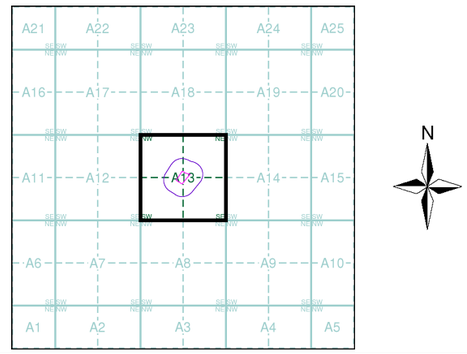
Historical Aerial Photography

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



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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

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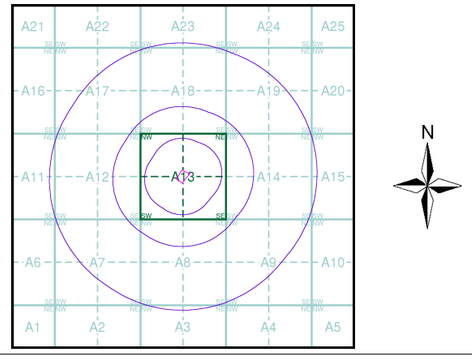
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1883 - 1884	2
Brecknockshire	1:10,560	1889	3
Glamorganshire	1:10,560	1900 - 1901	4
Brecknockshire	1:10,560	1906	5
Brecknockshire	1:10,560	1921	6
Glamorganshire	1:10,560	1921	7
Glamorganshire	1:10,560	1921	8
Brecknockshire	1:10,560	1921	9
Brecknockshire	1:10,560	1953	10
Glamorganshire	1:10,560	1953	11
Ordnance Survey Plan	1:10,000	1965	12
Ordnance Survey Plan	1:10,000	1981	13
Ordnance Survey Plan	1:10,000	1984	14
10K Raster Mapping	1:10,000	2000	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2020	17

Historical Map - Slice A



Order Details

Order Number: 243530586_1_1
Customer Ref: 16035 - Ystalyfera
National Grid Reference: 276500, 208220
Slice: A
Site Area (Ha): 0.55
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Site Details

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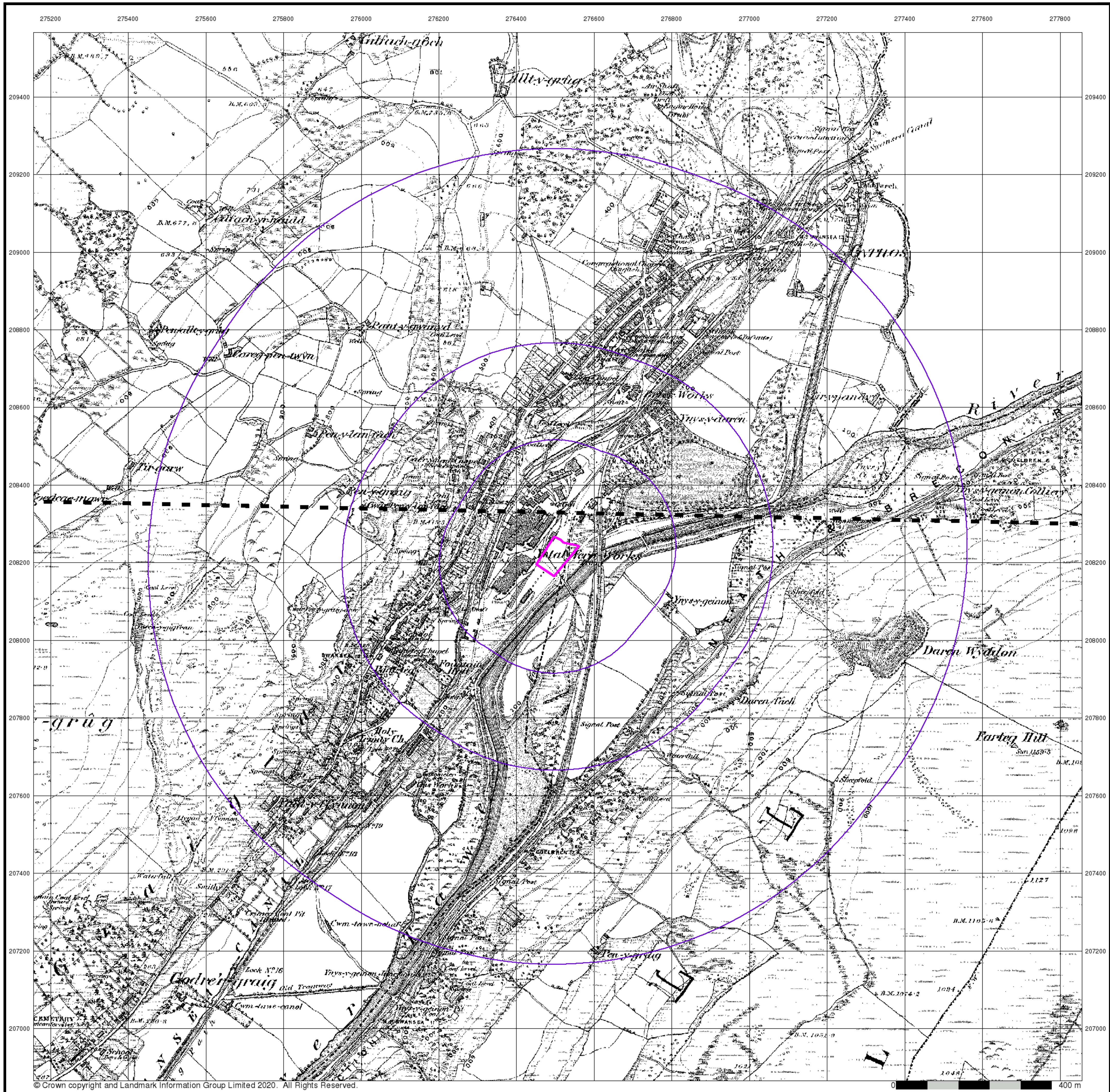

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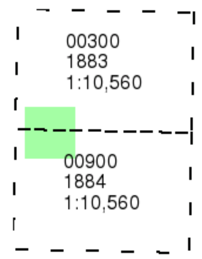
Glamorganshire

Published 1883 - 1884

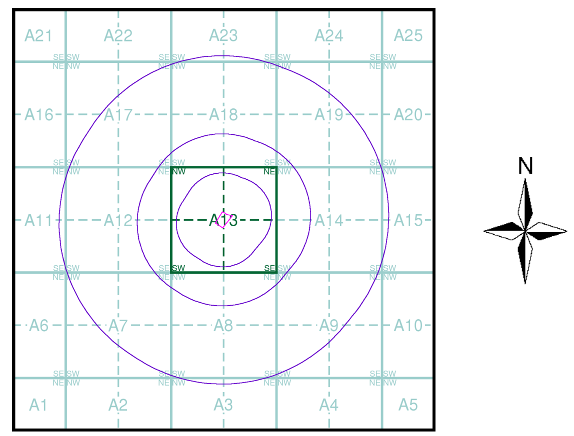
Source map scale - 1:10,560

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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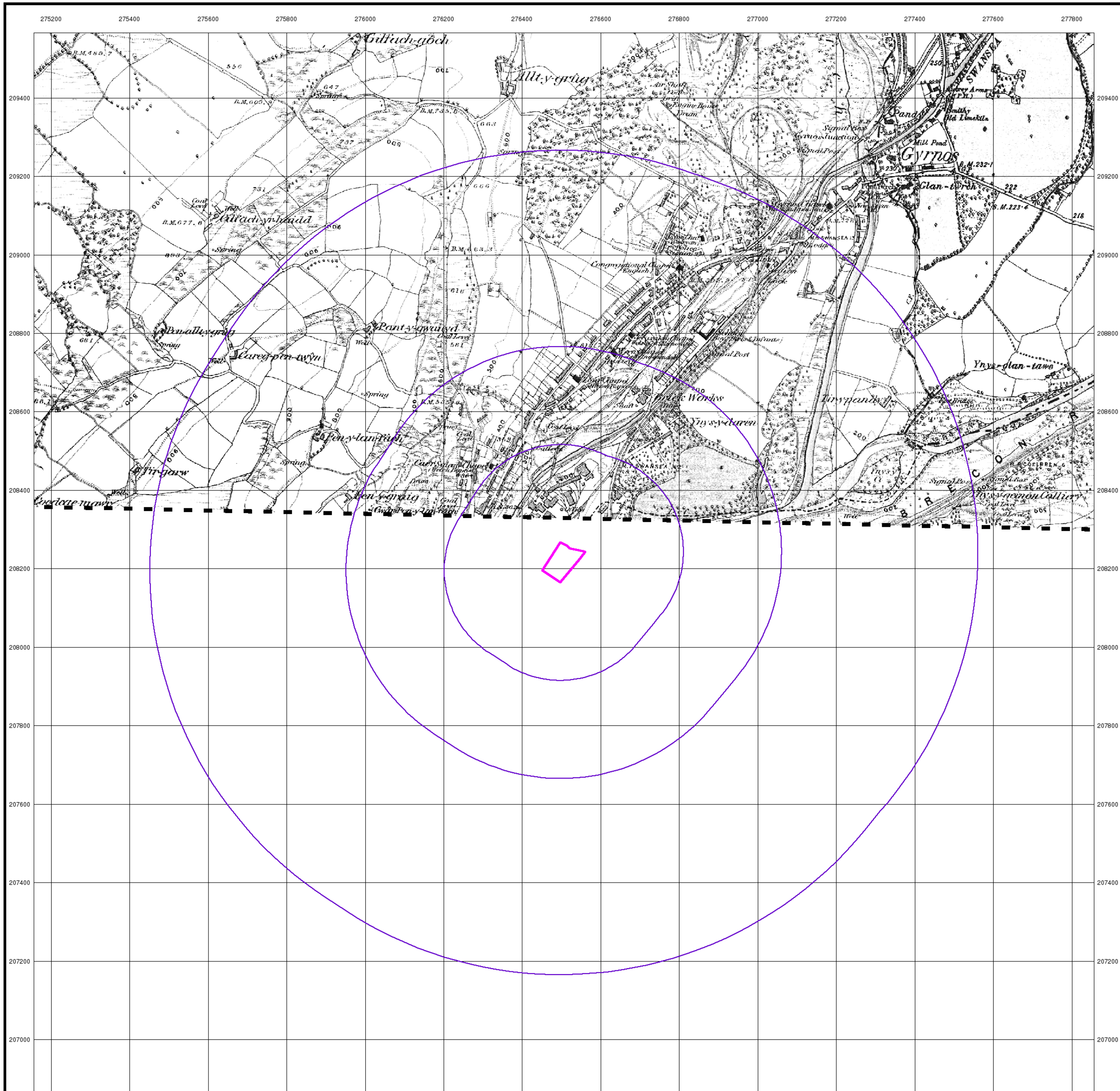

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Brecknockshire

Published 1889

Source map scale - 1:10,560

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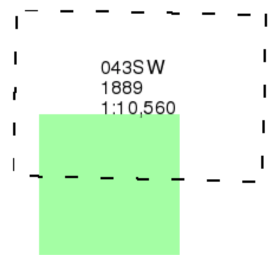
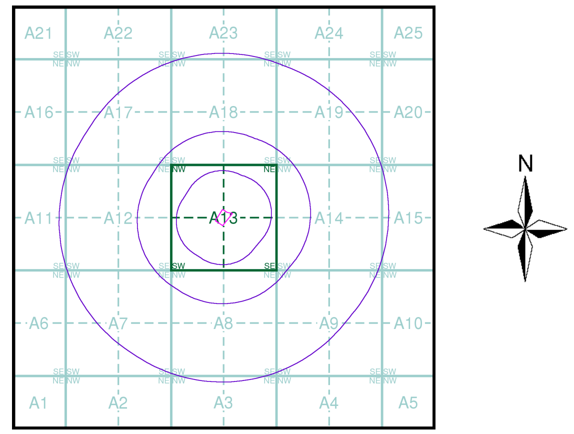


Historical Map - Slice A



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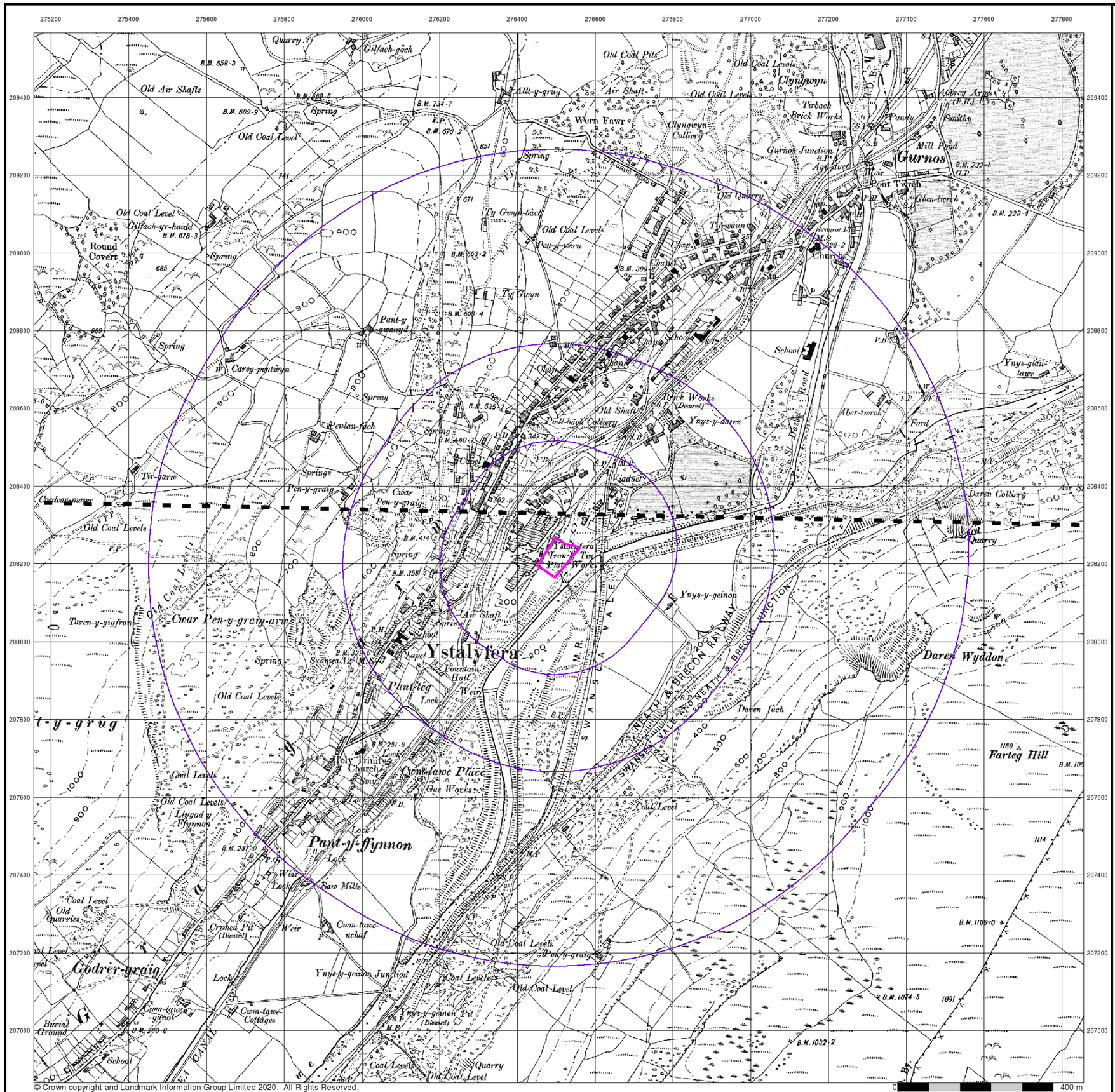

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Glamorganshire

Published 1900 - 1901

Source map scale - 1:10,560

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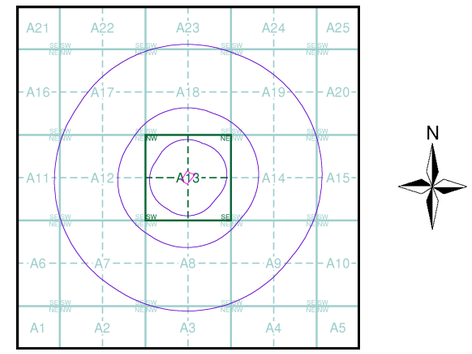
Map Name(s) and Date(s)

003SW
1901
1:10,560

009NW
1900
1:10,560

Historical Map - Slice A



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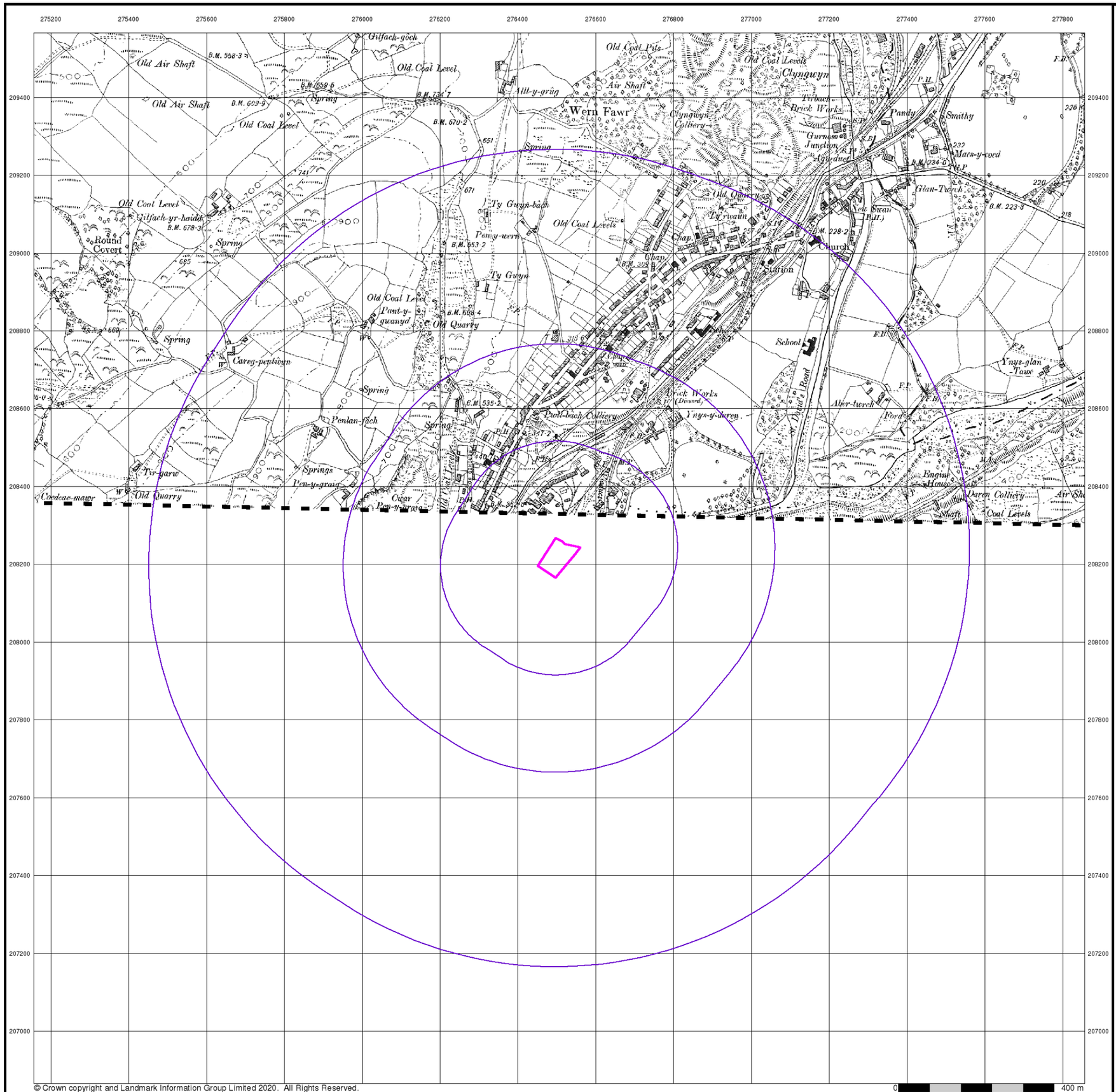

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Brecknockshire

Published 1906

Source map scale - 1:10,560

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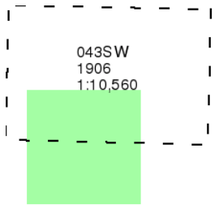
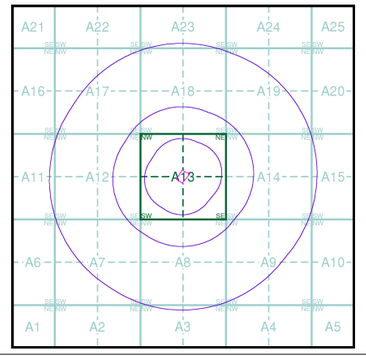


Historical Map - Slice A



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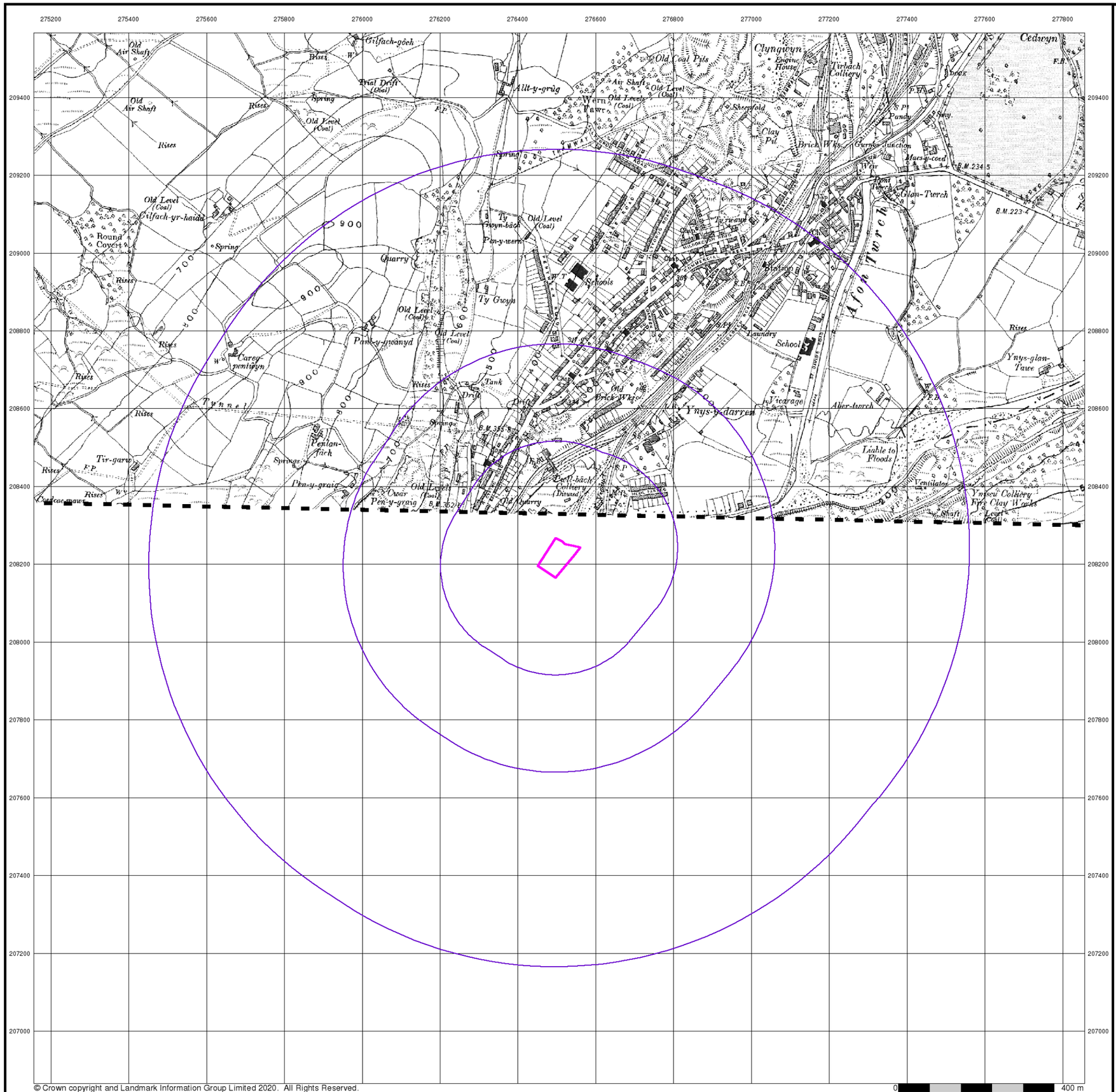

terrafirma

Brecknockshire

Published 1921

Source map scale - 1:10,560

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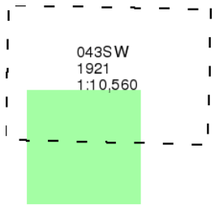
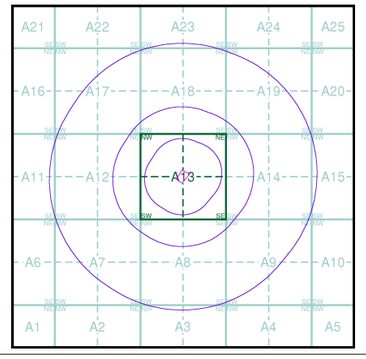
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	243530586_1_1
Customer Ref:	16035 - Ystalyfera
National Grid Reference:	276500, 208220
Slice:	A
Site Area (Ha):	0.55
Search Buffer (m):	1000

Site Details

Swansea Valley Business Park, Ystalyfera, Swansea

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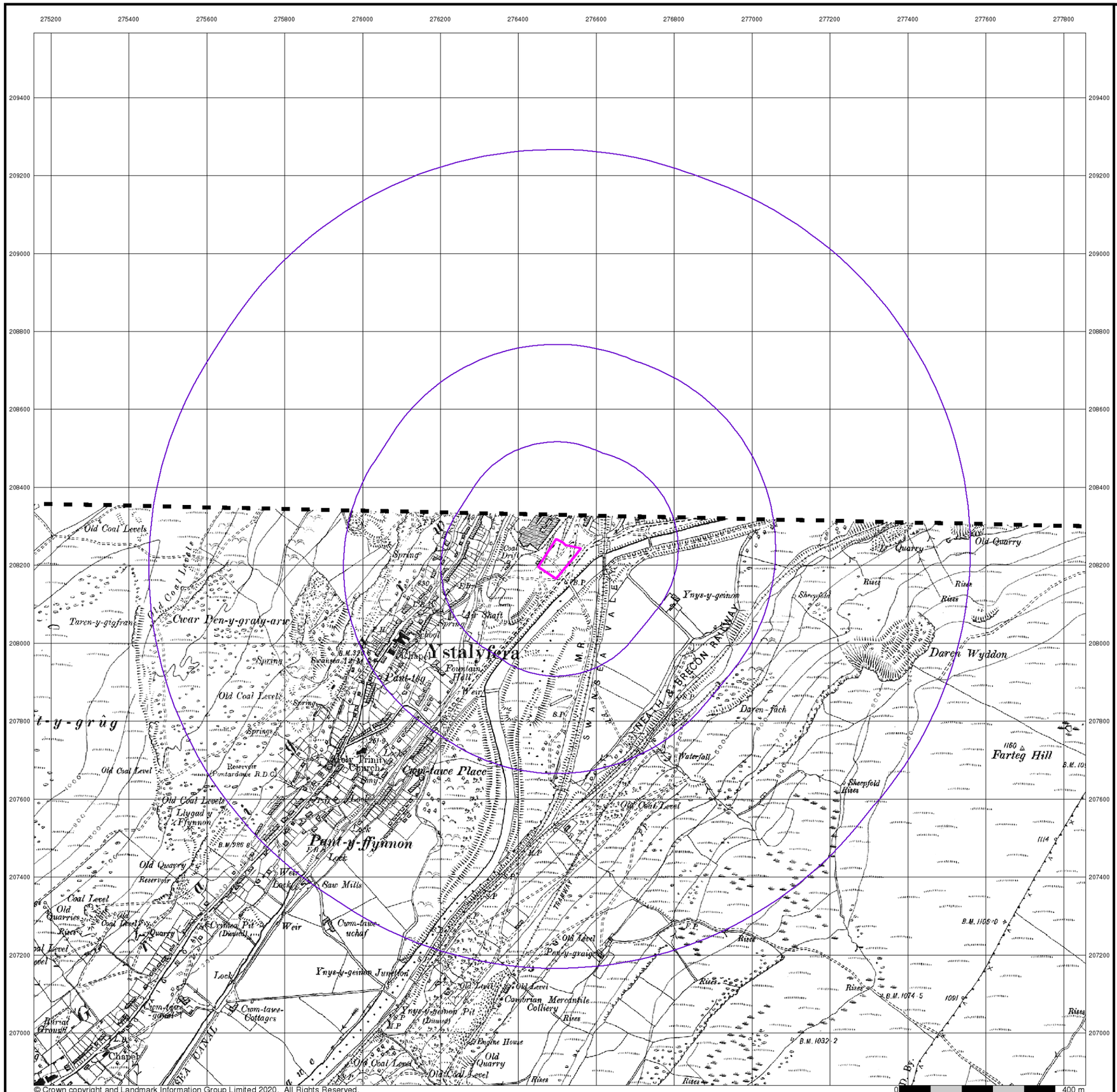

terrafirma

Glamorganshire

Published 1921

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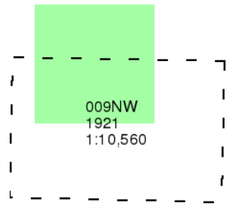

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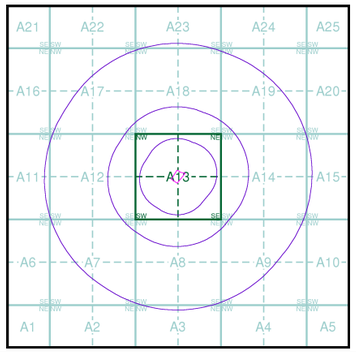

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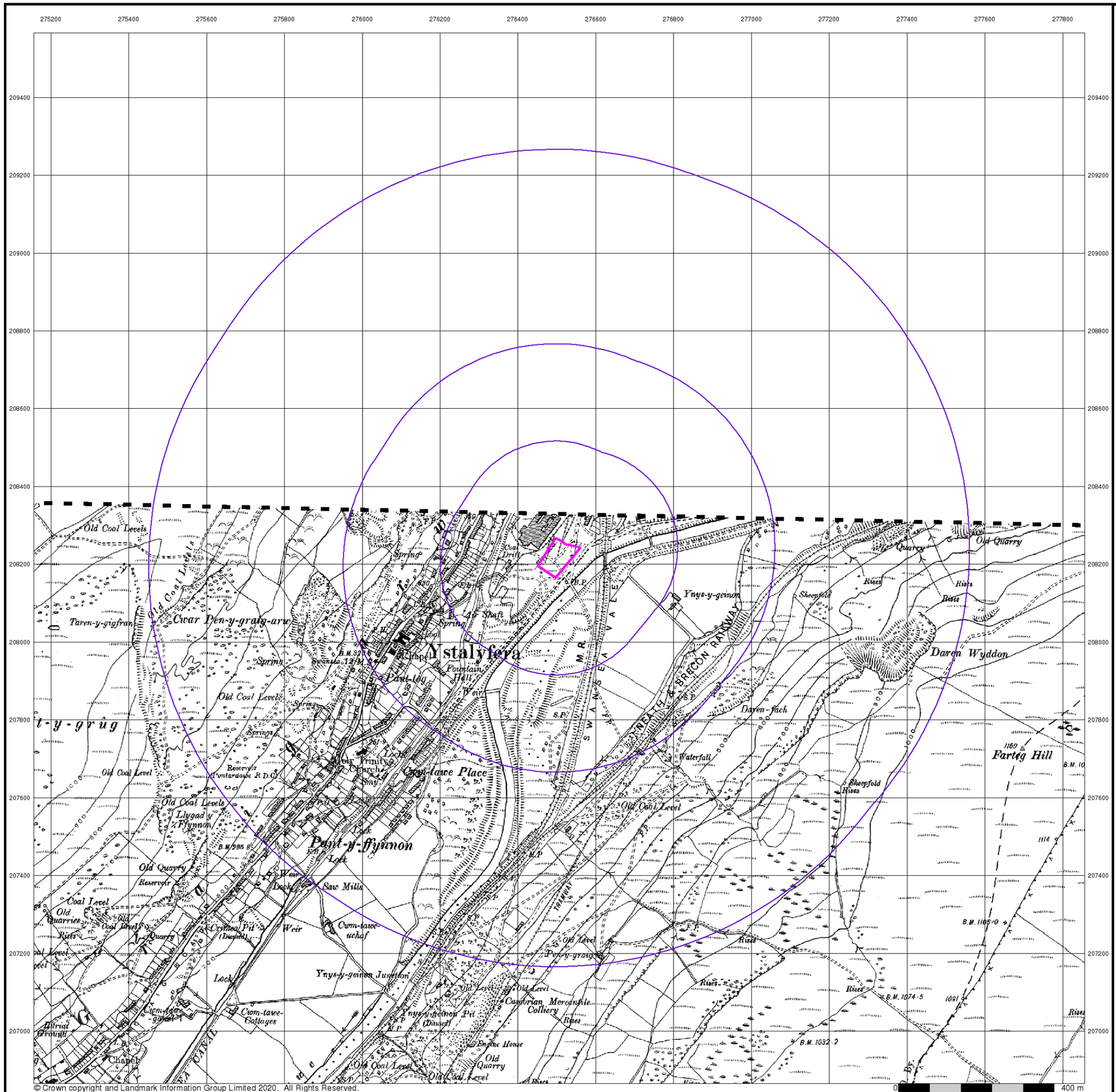

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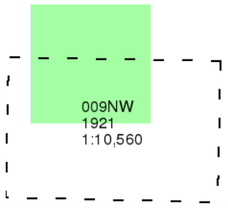

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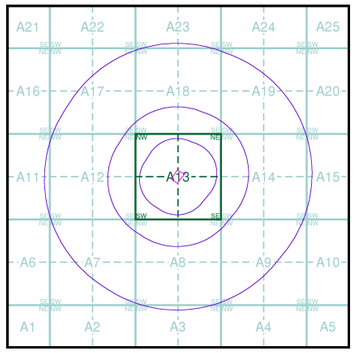

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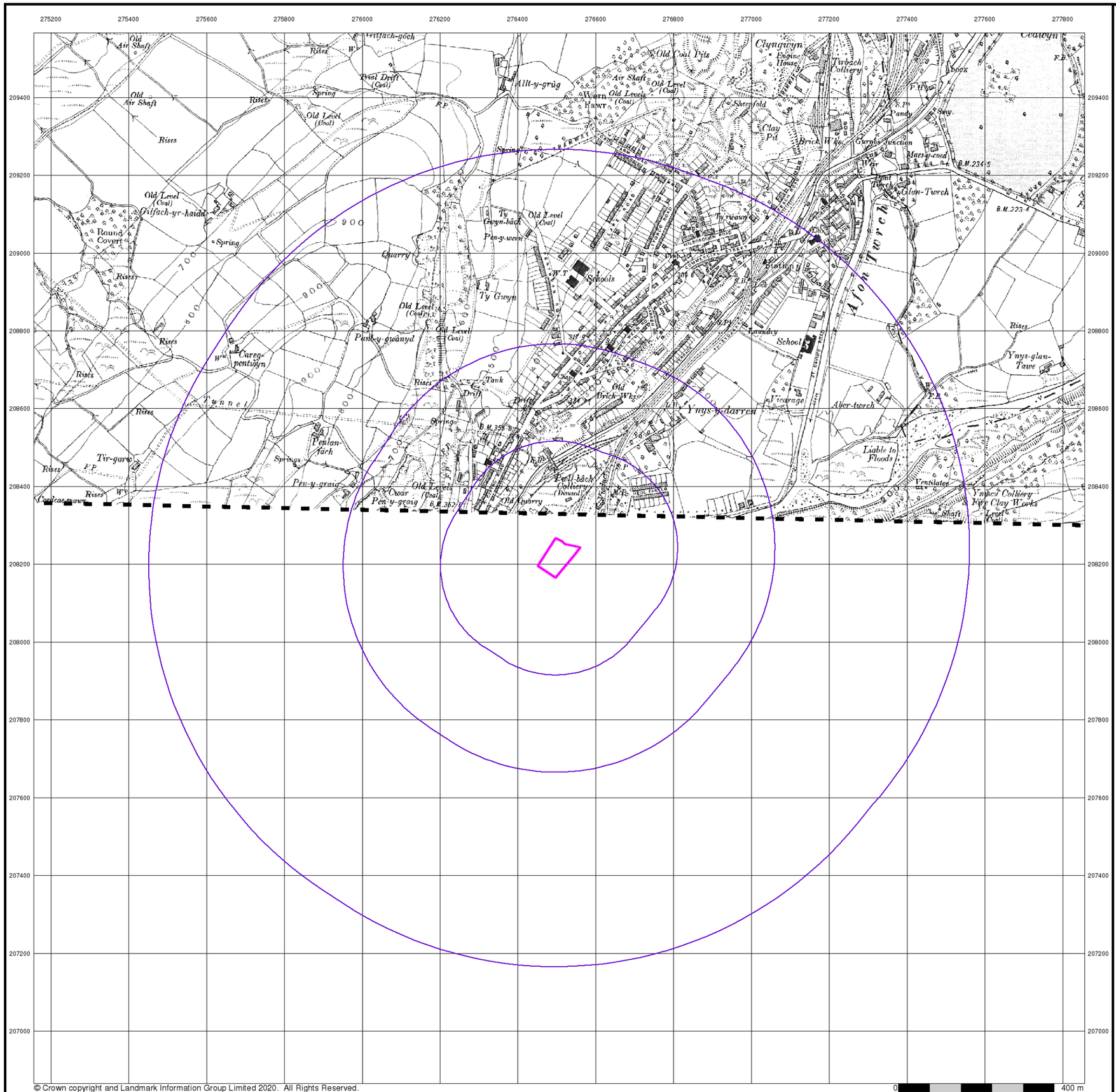

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Brecknockshire

Published 1921

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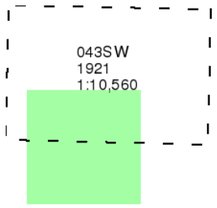

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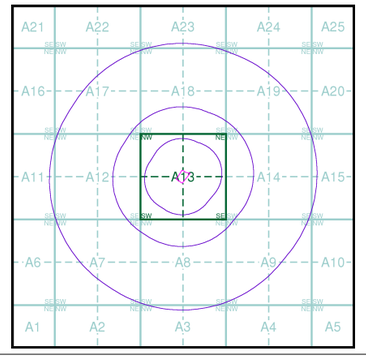

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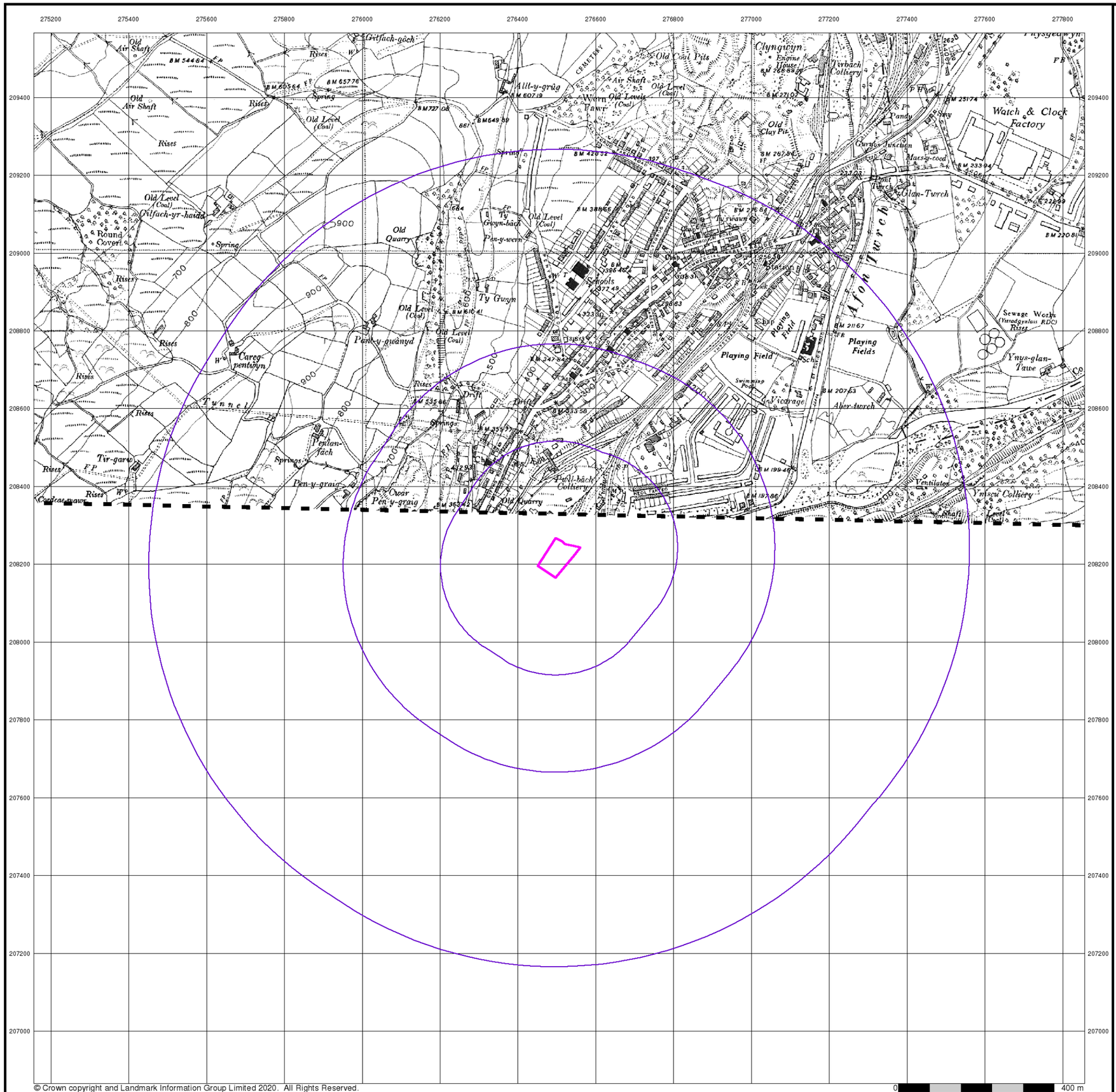

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Brecknockshire

Published 1953

Source map scale - 1:10,560

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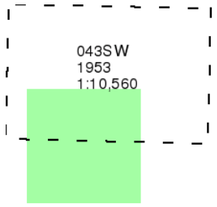
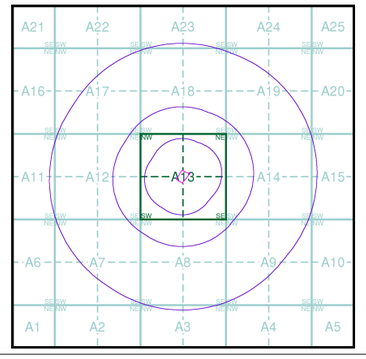


Historical Map - Slice A



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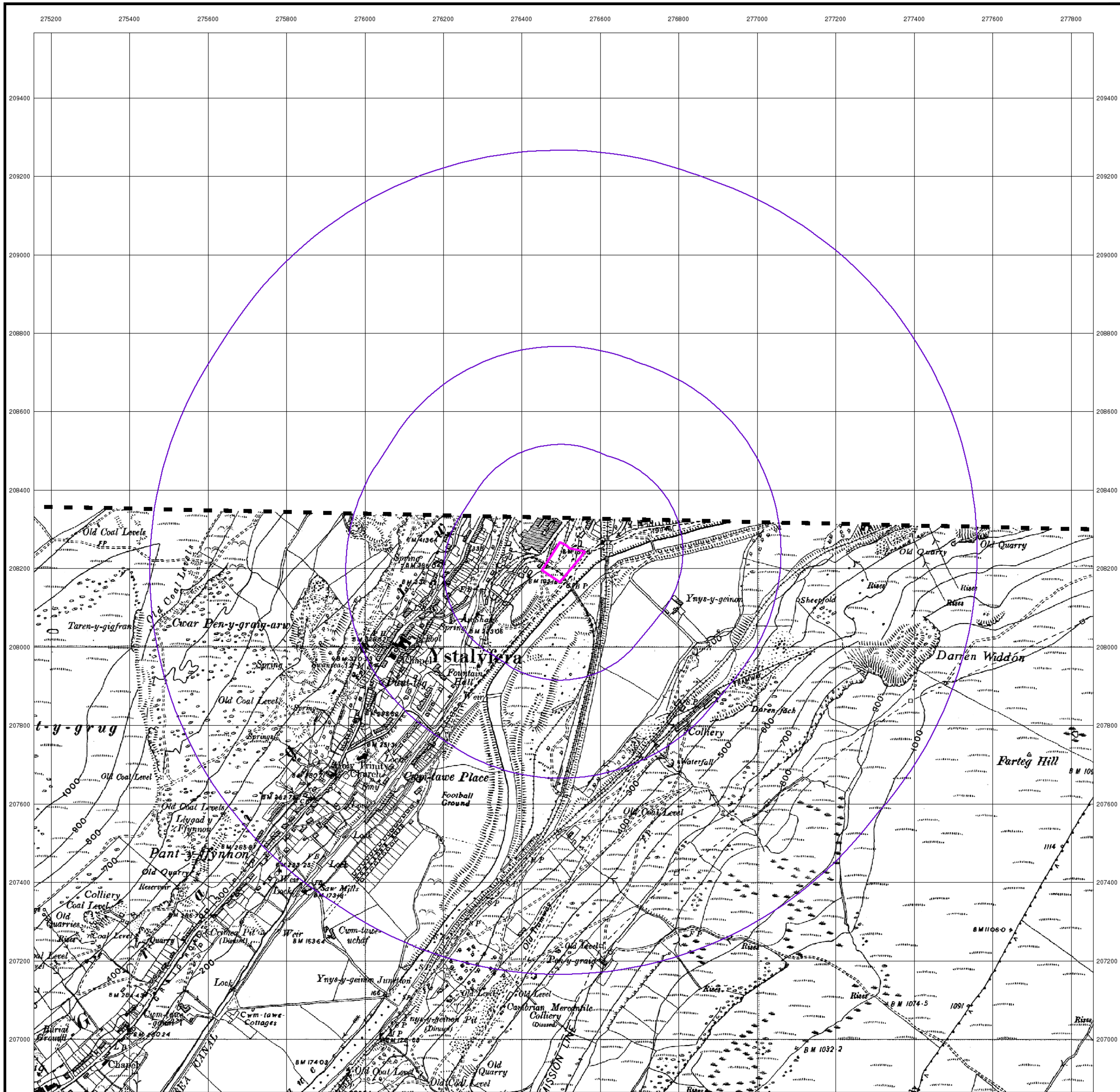

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Glamorganshire

Published 1953

Source map scale - 1:10,560

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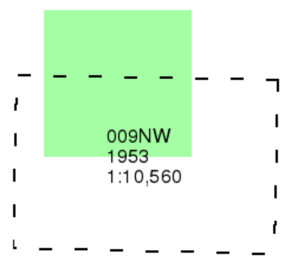
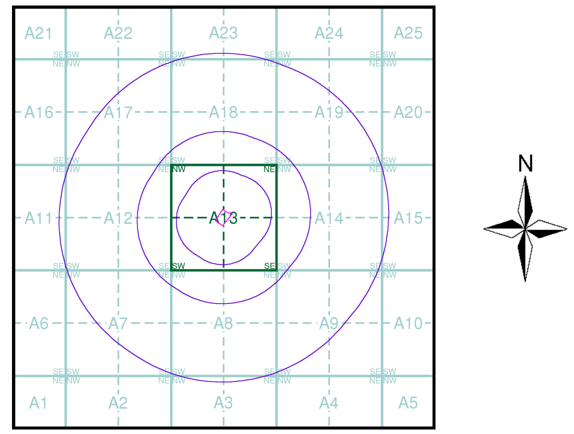


Historical Map - Slice A



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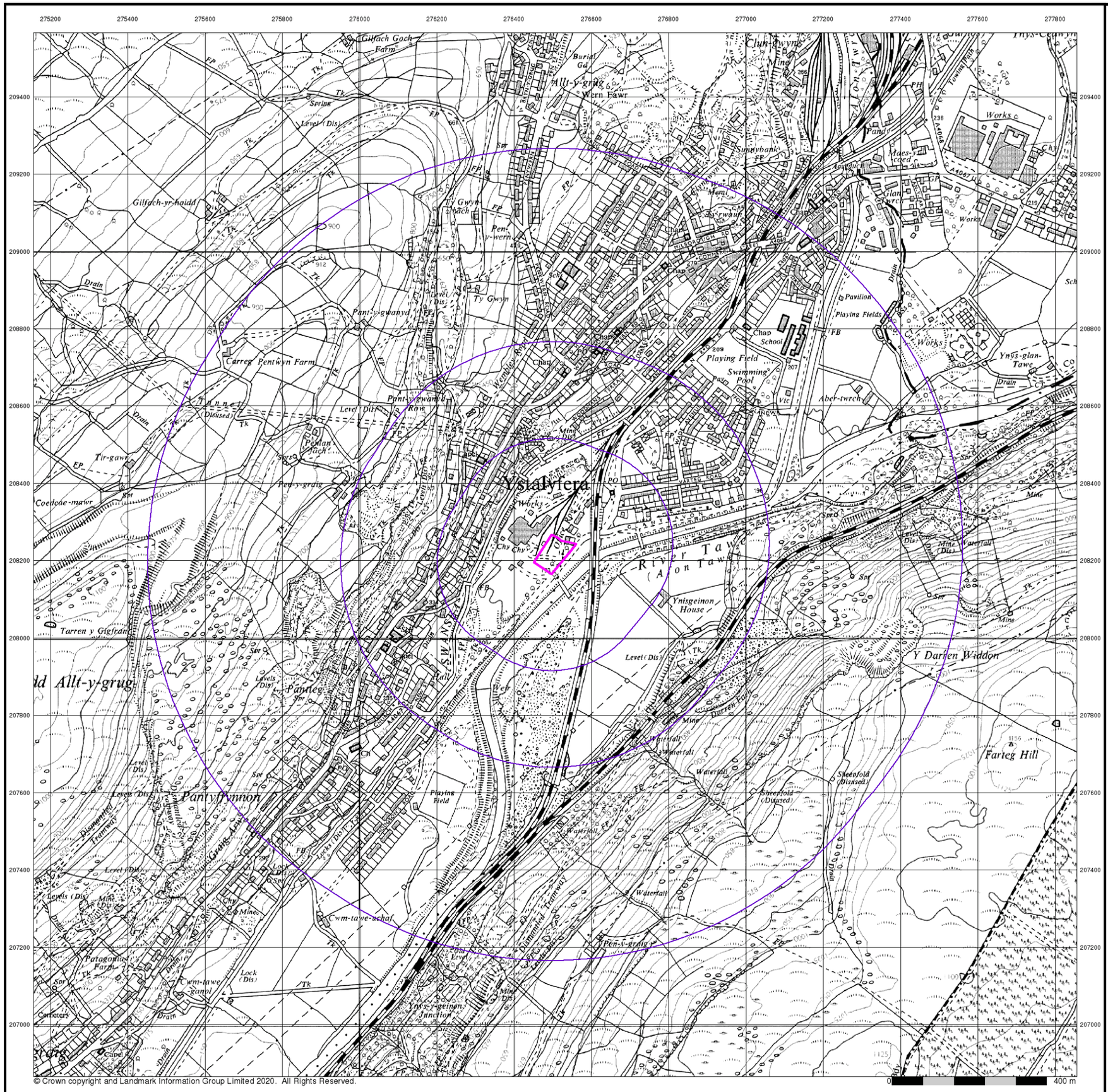

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Ordnance Survey Plan

Published 1965

Source map scale - 1:10,000

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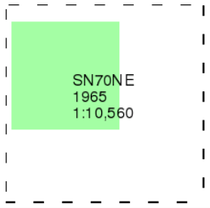
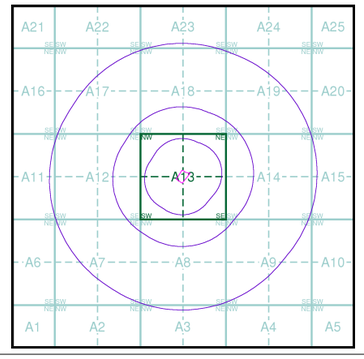


Historical Map - Slice A



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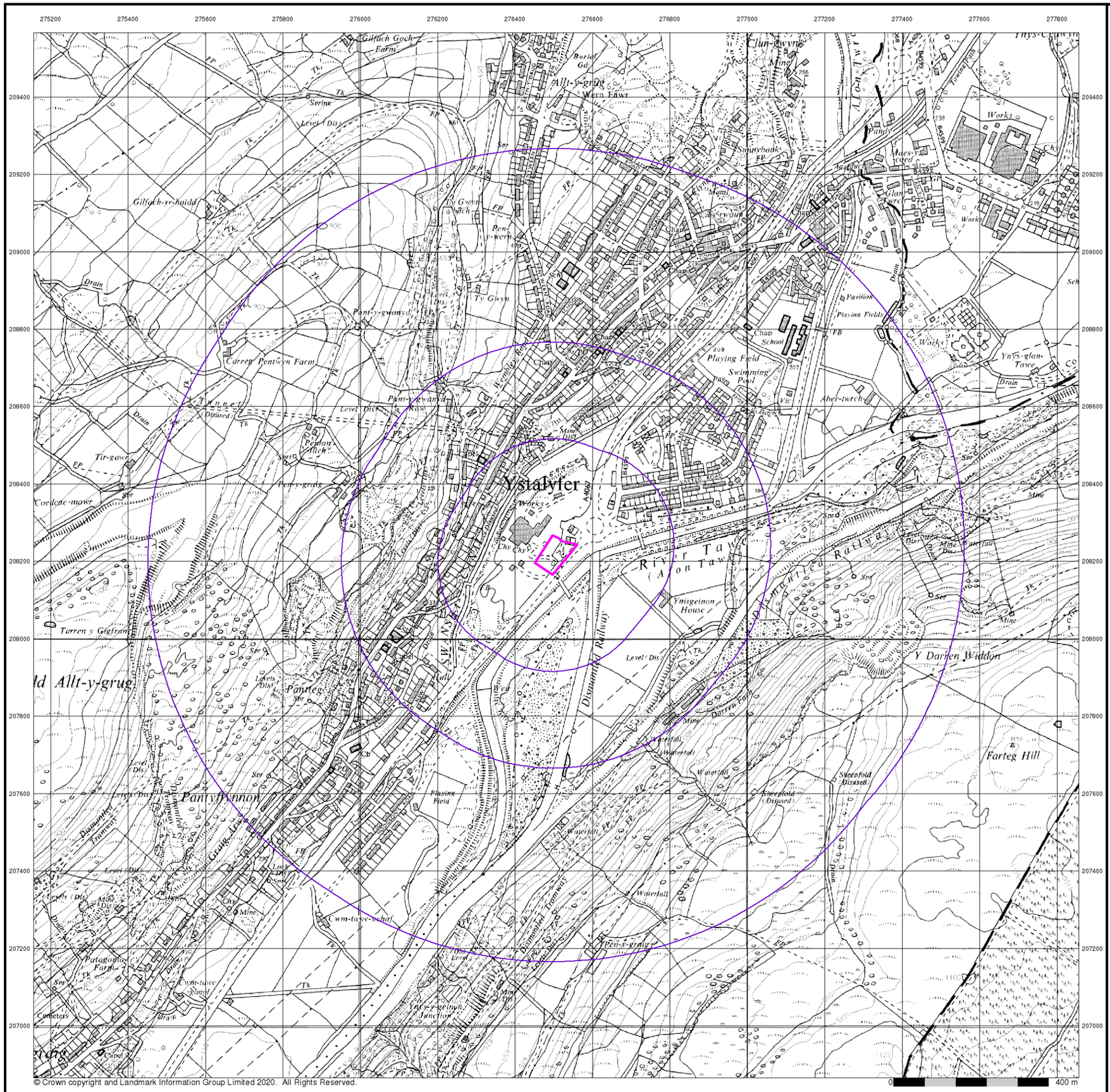

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Ordnance Survey Plan

Published 1981

Source map scale - 1:10,000

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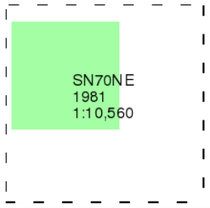
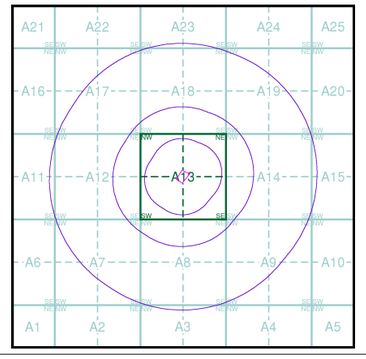


Historical Map - Slice A



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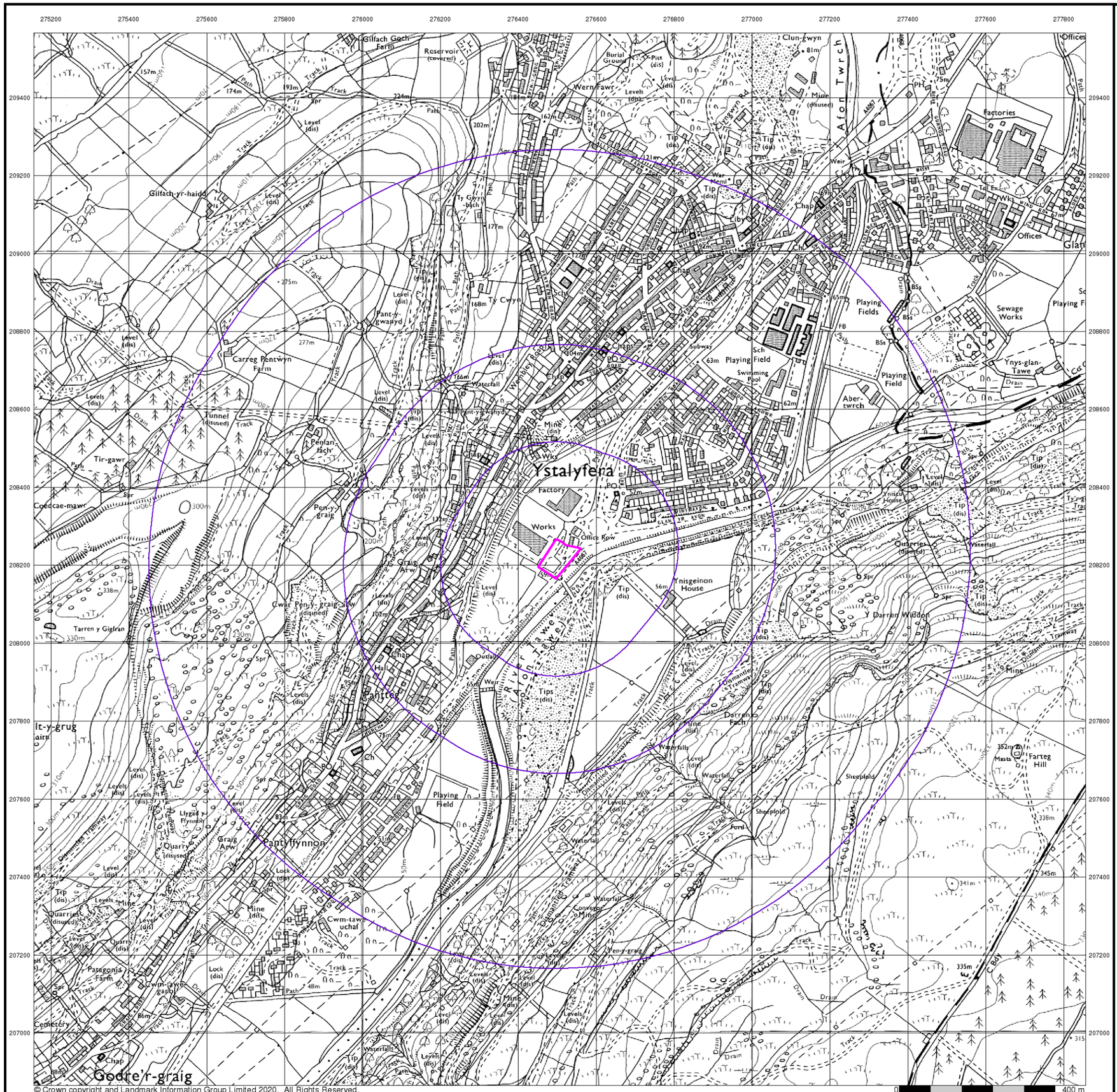

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Ordnance Survey Plan

Published 1984

Source map scale - 1:10,000

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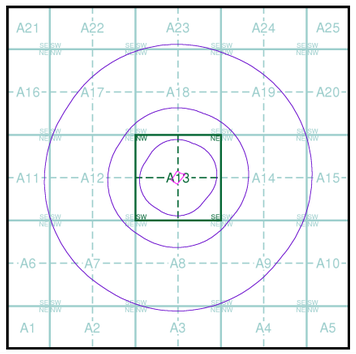
Map Name(s) and Date(s)

SN70NE
1984
1:10,000

Historical Map - Slice A



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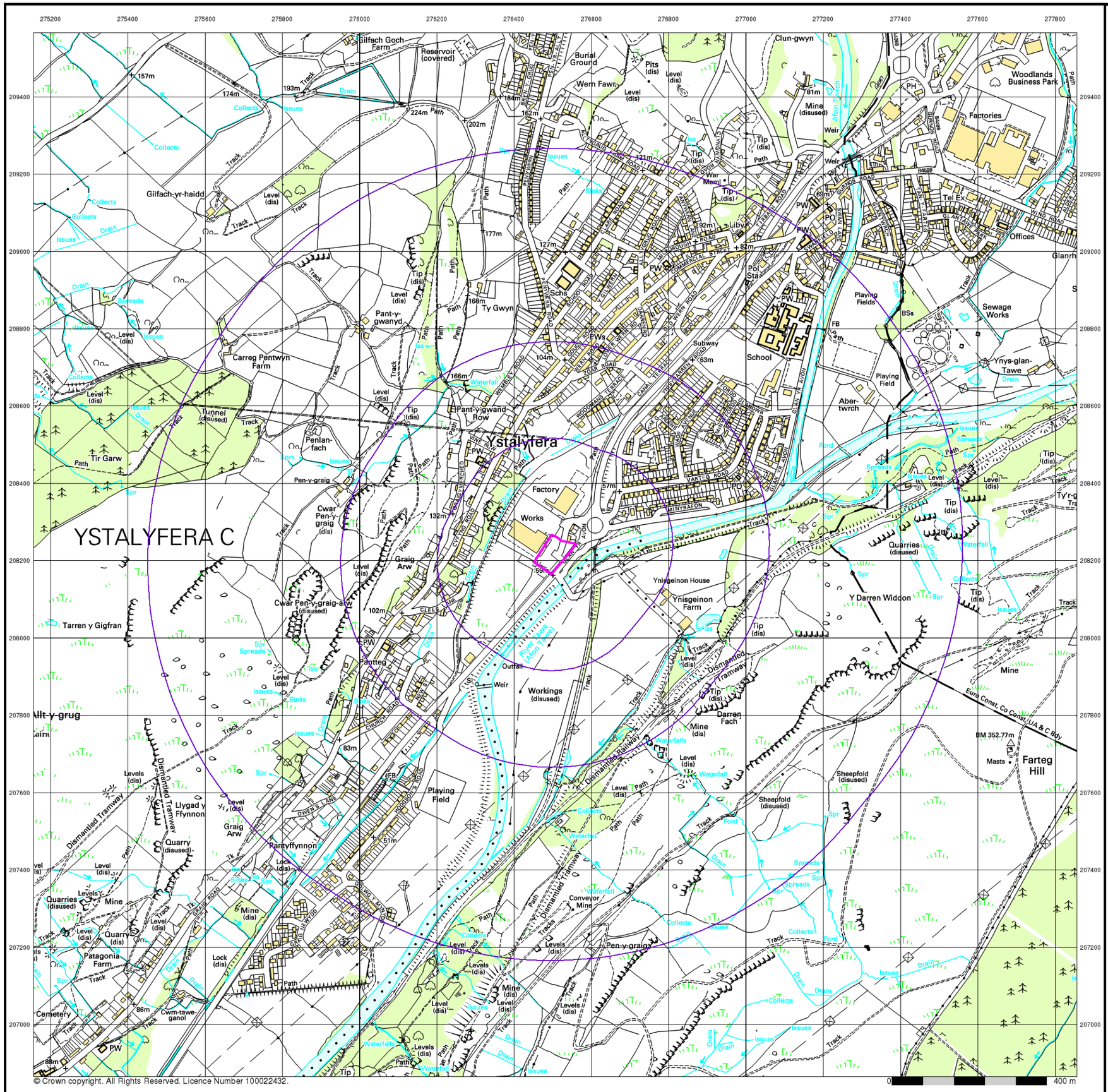

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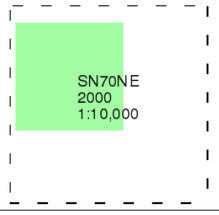
10k Raster Mapping

Published 2000

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)



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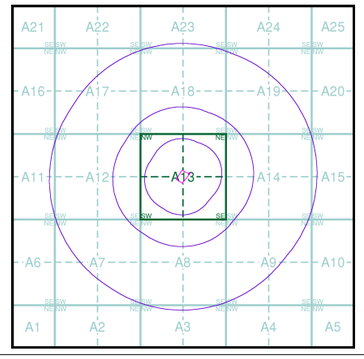

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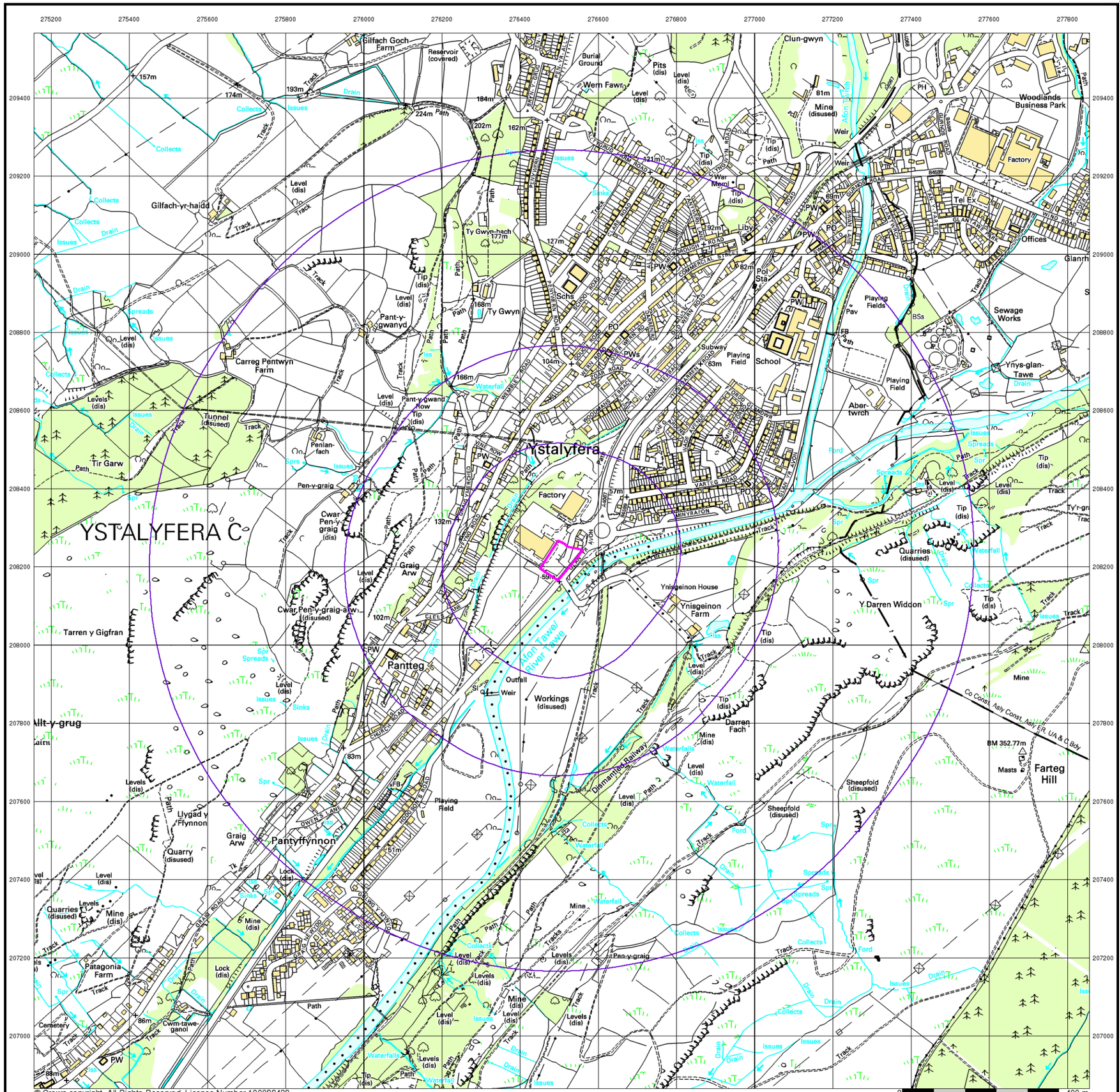

terrafirma

10k Raster Mapping

Published 2006

Source map scale - 1:10,000

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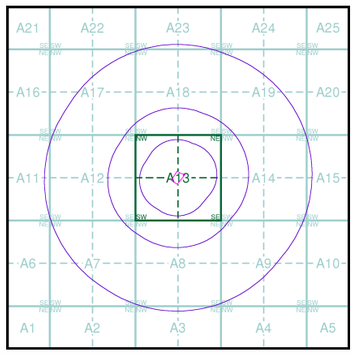

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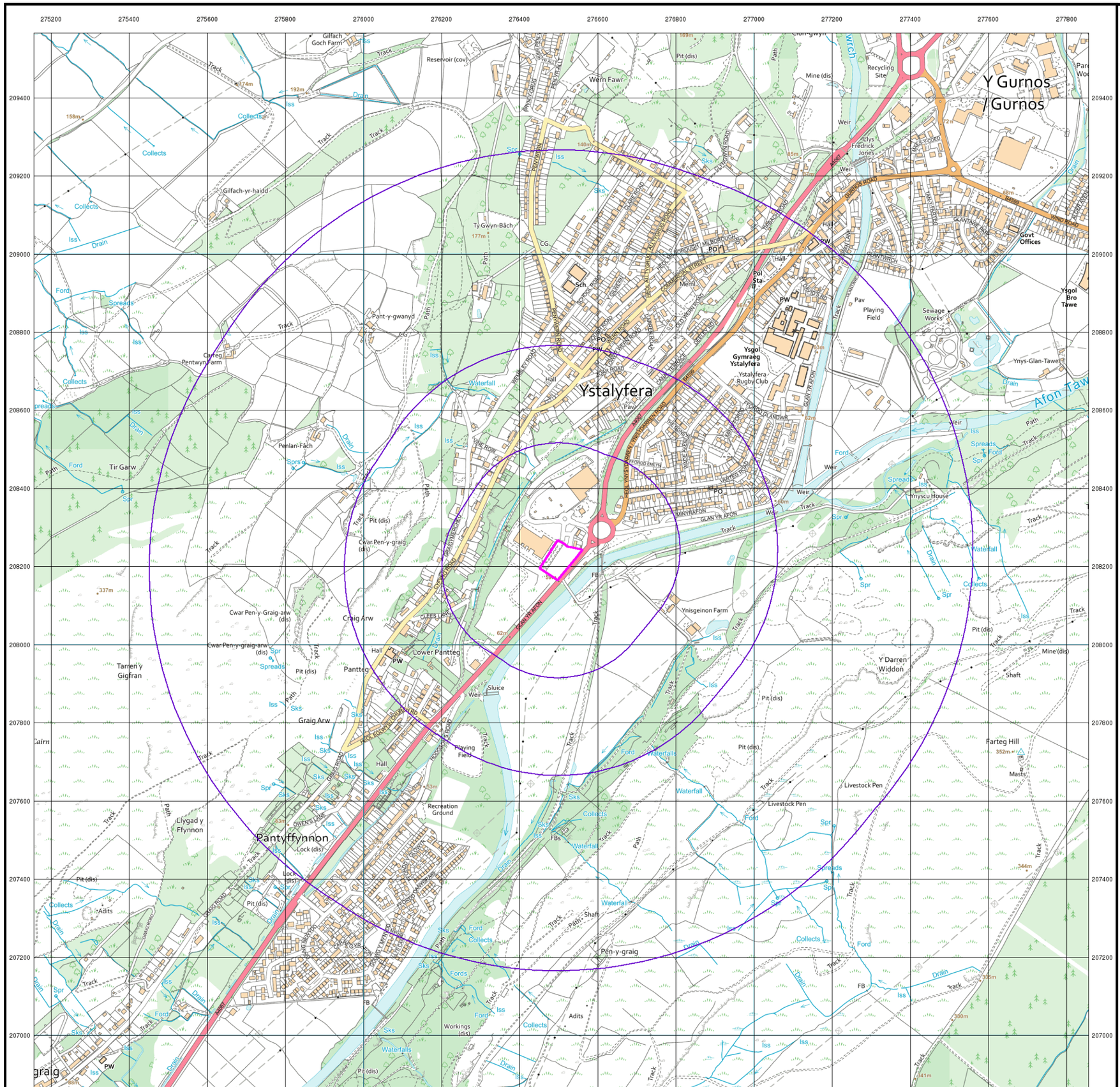
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



terrafirma

VectorMap Local

Published 2020

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)

SN70NE
2020
Variable

Historical Map - Slice A

A13

Order Details

Order Number:	243530586_1_1
Customer Ref:	16035 - Ystalyfera
National Grid Reference:	276500, 208220
Slice:	A
Site Area (Ha):	0.55
Search Buffer (m):	1000

Site Details

Swansea Valley Business Park, Ystalyfera, Swansea

Landmark INFORMATION GROUP

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

ANNEX B
Coal Authority Mining Reports

The Coal Authority

CON29M
coal mining report

SWANSEA VALLEY BUSINESS PARK, YSTALYFERA, SWANSEA, NEATH PORT TALBOT

Known or potential coal mining risks

Past underground coal mining	Page 4
Future underground coal mining	Page 4
Mine entries	Page 5

Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit www.groundstability.com

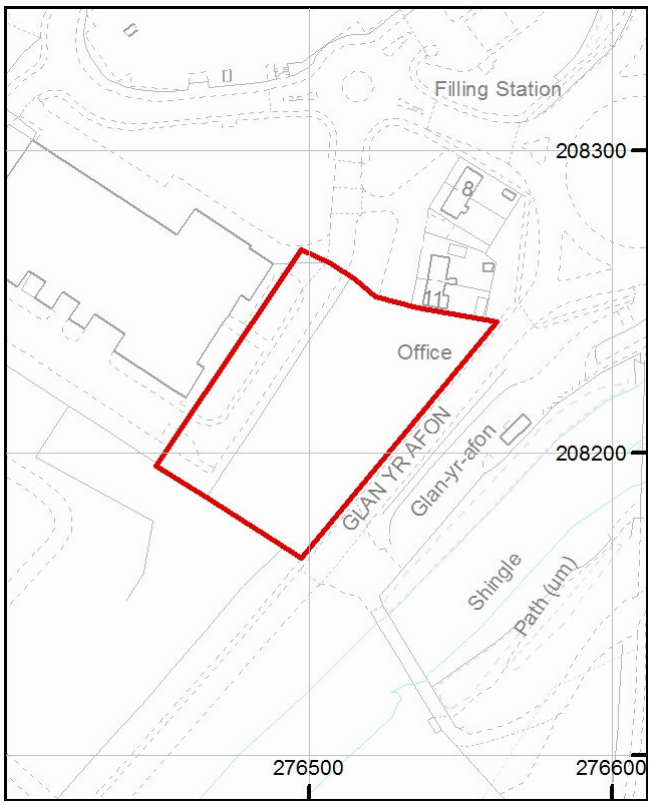
Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. In view of the coal mining circumstances we would recommend that any planned or future development should follow detailed technical advice before beginning work on site. Please see page 3 for further details on Future development.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is **on the coalfield**

Map data

This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.

Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Professional opinion

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. 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.

If you are looking to develop, or undertake works, within a coal mining development high risk area your Local Authority planning department may require a Coal Mining Risk Assessment to be undertaken by a qualified mining geologist or engineer. Should you require any additional information then please contact the Coal Authority on 0345 762 6848 or email cmra@coal.gov.uk.

Site investigations

The following site investigation(s) took place in the location area:

A site investigation was carried out in June 2007 by White Young Green., 2nd Floor, Frigate House, Quay West, Quay Parade, Swansea, SA1 1SR.

Additional information regarding these investigations may be available from the company or companies listed above.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

1 Past underground coal mining

The property is not within a surface area that could be affected by any past recorded underground coal mining.

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

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

This information is based on the information that the Coal Authority has at the time of this enquiry.

Based on the Coal Authority's knowledge of the mining circumstances at the time of this enquiry, there may be unrecorded mine entries in the local area that do not appear on Coal Authority records.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 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.

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

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.

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 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.

Statutory cover

Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.
www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form

Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call 01623 646 333. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary

Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings

ANNEX C
Envirocheck Datasheet and Maps

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
243530586_1_1

Customer Reference:
16035 - Ystalyfera

National Grid Reference:
276500, 208220

Slice:
A

Site Area (Ha):
0.55

Search Buffer (m):
1000

Site Details:

Swansea Valley Business Park
Ystalyfera
Swansea

Client Details:

Mr A Beattie
Terra Firma (Wales) Ltd
5 Deryn Court
Wharfdale Road
Pentwyn
Cardiff
CF23 7HB

Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	35
Hazardous Substances	-
Geological	37
Industrial Land Use	48
Sensitive Land Use	54
Data Currency	55
Data Suppliers	61
Useful Contacts	62

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.

Report Version v53.0

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		5		20
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	pg 9			1	1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9		Yes		
Pollution Incidents to Controlled Waters	pg 9	2	13	3	6
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 13			3	1
River Quality Biology Sampling Points	pg 14				1
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 14		1		
Water Abstractions	pg 15		1	2	4 (*8)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 18	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 18	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 18	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 18	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 19	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences	pg 19	Yes		n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 19		9	20	105

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	pg 35		1	2	
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 35	1	1	4	13
Potentially Infilled Land (Water)	pg 36		1		1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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 37	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 37	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 41		3	4	18
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 45	Yes	n/a	n/a	n/a
Mining Instability	pg 46	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 46		Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 46	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 46	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 46	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 47	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 48		4		13
Fuel Station Entries	pg 49		1		
Points of Interest - Commercial Services	pg 49		1		5
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 50		4		7
Points of Interest - Public Infrastructure	pg 51		2	8	15
Points of Interest - Recreational and Environmental	pg 53			6	5
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 54			3	7
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 of Property Situated Below Ground Level	A13NE (E)	0	1	276550 208218
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	0	1	276505 208200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (SE)	0	1	276505 208218
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	66	1	276505 208100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	66	1	276500 208100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	73	1	276400 208250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	97	1	276450 208350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	100	1	276400 208300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	102	1	276350 208218
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	102	1	276350 208200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	134	1	276500 208400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	257	1	276800 208150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	262	1	276700 208000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	266	1	276505 207900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	269	1	276750 208050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	281	1	276250 208000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	289	1	276300 207950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	293	1	276850 208200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	296	1	276200 208350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	300	1	276750 208000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	304	1	276850 208150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	307	1	276800 208050

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 (S)	320	1	276550 207850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (E)	323	1	276850 208100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	332	1	276600 207850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	332	1	276750 207950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	334	1	276700 207900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	340	1	276900 208218
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	340	1	276900 208250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	342	1	276900 208200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	348	1	276400 208600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	358	1	276250 207900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	369	1	276550 207800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	373	1	276300 207850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	380	1	276600 207800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	390	1	276950 208250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	394	1	276950 208300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	400	1	276250 207850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	416	1	276500 207750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	416	1	276505 207750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	419	1	276550 207750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	428	1	276200 207850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	442	1	277000 208200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	466	1	276500 207700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	466	1	276505 207700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	468	1	276450 207700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	469	1	276200 207800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	475	1	276800 207800
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Office Row Car Park Ystalyfera Cso, Down Road From 11, Office Row (Car Park), Ystalyfera, Swansea, Sa9 2ee Authority: Natural Resources Wales Catchment Area: TAWE -CONFLUENCE WITH TWRCH TO TIDAL LIMIT Reference: Bw2303401 Permit Version: 3 Effective Date: 21st October 2019 Issued Date: 21st October 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Tawe **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A13SE (S)	41	2	276507 208126
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Office Row Car Park Ystalyfera Cso, Neath, South Wales Authority: Natural Resources Wales Catchment Area: TAWE -CONFLUENCE WITH TWRCH TO TIDAL LIMIT Reference: Bw2303401 Permit Version: 2 Effective Date: 31st March 2009 Issued Date: 31st December 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A13SW (S)	56	2	276489 208110
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Office Row Car Park Ystalyfera Cso, Neath, South Wales Authority: Natural Resources Wales Catchment Area: TAWE -CONFLUENCE WITH TWRCH TO TIDAL LIMIT Reference: Bw2303401 Permit Version: 2 Effective Date: 31st March 2009 Issued Date: 31st December 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A13SW (S)	56	2	276489 208110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Swo Ystrlyfera Soc 17 Below Authority: Natural Resources Wales Catchment Area: River Tawe Reference: BW2303401 Permit Version: 1 Effective Date: 13th April 1972 Issued Date: 13th April 1972 Revocation Date: 30th March 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Not Supplied Receiving Water: River Tawe **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A13SW (S)	56	2	276489 208110
2	**Discharge Consents** Operator: The Occupier Property Type: Undefined Or Other Location: Swansea Ynysgeinon Farm Ystalyfera Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0047101 Permit Version: 1 Effective Date: 22nd May 1987 Issued Date: 22nd May 1987 Revocation Date: 10th October 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: To Land **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A13SE (E)	243	2	276800 208200
3	**Discharge Consents** Operator: Hoar David Edward Property Type: Undefined Or Other Location: Swansea Pantygwanydd Farm Ystalyfer, Pantygwanydd Farm Ystalyfera Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bp0042901 Permit Version: 1 Effective Date: 28th April 1987 Issued Date: 28th April 1987 Revocation Date: 11th July 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: To Land **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	730	2	276000 208800
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Water Supply Grid Location: Ystalyfera Trunk Main Washout Authority: Natural Resources Wales Catchment Area: River Tawe Reference: BF0088701 Permit Version: 1 Effective Date: 13th August 1974 Issued Date: 13th August 1974 Revocation Date: 31st March 2007 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Twrch **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	733	2	277200 208600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: Williams L Property Type: Undefined Or Other Location: Ystalyfera Blaenmerrig Mine. Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bm0028501 Permit Version: 1 Effective Date: 17th May 1983 Issued Date: 17th May 1983 Revocation Date: 5th December 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Unnamed Trib Of River Tawe **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A8SE (S)	738	2	276550 207430
6	**Discharge Consents** Operator: Hopkins W T J & Williams L L Property Type: Undefined Or Other Location: Working Of Underground Coal @ Ystal, Ystalyfera Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Be0031901 Permit Version: 1 Effective Date: 25th June 1970 Issued Date: 25th June 1970 Revocation Date: 22nd December 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Unnamed Trib River Tawe **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A14NE (E)	842	2	277400 208300
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Natural Resources Wales Catchment Area: TAWE - CONF WITH GIEDD TO CONFLUENCE WITH TWRCH Reference: Bf0169101 Permit Version: 8 Effective Date: 17th July 2015 Issued Date: 17th July 2015 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	923	2	277423 208569
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Natural Resources Wales Catchment Area: TAWE - CONF WITH GIEDD TO CONFLUENCE WITH TWRCH Reference: Bf0169101 Permit Version: 8 Effective Date: 17th July 2015 Issued Date: 17th July 2015 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	923	2	277423 208569

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bf0169101 Permit Version: 7 Effective Date: 31st March 2010 Issued Date: 31st March 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	923	2	277423 208569
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bf0169101 Permit Version: 6 Effective Date: 1st January 2010 Issued Date: 26th June 2009 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	923	2	277423 208569
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Natural Resources Wales Catchment Area: TAWE - CONF WITH GIEDD TO CONFLUENCE WITH TWRCH Reference: Bw0600901 Permit Version: 3 Effective Date: 31st March 2005 Issued Date: 31st March 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	923	2	277423 208569
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bf0169101 Permit Version: 5 Effective Date: 31st March 2005 Issued Date: 31st March 2005 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	923	2	277423 208569

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Natural Resources Wales Catchment Area: TAWE - CONF WITH GIEDD TO CONFLUENCE WITH TWRCH Reference: Bw0600901 Permit Version: 3 Effective Date: 31st March 2005 Issued Date: 31st March 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	923	2	277423 208569
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bf0169101 Permit Version: 4 Effective Date: 1st April 2004 Issued Date: 31st March 2004 Revocation Date: 30th March 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	923	2	277423 208569
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw (Storm Tks) Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bw0600901 Permit Version: 2 Effective Date: 3rd November 1995 Issued Date: 2nd November 1995 Revocation Date: 30th March 2005 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Tawe **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	971	2	277470 208580
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw (Storm Tks) Authority: Natural Resources Wales Catchment Area: River Tawe Reference: BF0169101 Permit Version: 3 Effective Date: 1st November 1995 Issued Date: 31st October 1995 Revocation Date: 31st March 2004 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Not Supplied Receiving Water: River Tawe **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A19SE (E)	971	2	277470 208580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Ystradgynlais Stw (Storm Tks) Authority: Natural Resources Wales Catchment Area: TAWE - CONF WITH GIEDD TO CONFLUENCE WITH TWRCH Reference: BP0256901 Permit Version: 1 Effective Date: 31st October 1995 Issued Date: 31st October 1995 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	971	2	277470 208580
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Ystradgynlais Stw (Storm Tks) Authority: Natural Resources Wales Catchment Area: TAWE - CONF WITH GIEDD TO CONFLUENCE WITH TWRCH Reference: Bp0256901 Permit Version: 1 Effective Date: 31st October 1995 Issued Date: 31st October 1995 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tawe **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	971	2	277470 208580
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw (Storm Tks) Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bf0169101 Permit Version: 2 Effective Date: 17th November 1989 Issued Date: 17th November 1989 Revocation Date: 31st October 1995 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Not Supplied Receiving Water: River Tawe **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	971	2	277470 208580
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw (Storm Tks) Authority: Natural Resources Wales Catchment Area: River Tawe Reference: Bf0169101 Permit Version: 1 Effective Date: 16th November 1977 Issued Date: 16th November 1977 Revocation Date: 16th November 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Not Supplied Receiving Water: River Tawe **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	971	2	277470 208580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw (Storm Tks) Authority: Natural Resources Wales Catchment Area: River Tawe Reference: BW0600901 Permit Version: 1 Effective Date: 16th November 1977 Issued Date: 16th November 1977 Revocation Date: 2nd November 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Tawe **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A19SE (E)	971	2	277470 208580
8	**Discharge Consents** Operator: William Morris Property Type: Undefined Or Other Location: Carreg Pentwyn Fm Off Alltygrug Rd, Off Alltygrug Rd Ystalyfera Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bm0011201 Permit Version: 1 Effective Date: 10th December 1980 Issued Date: 10th December 1980 Revocation Date: 2nd July 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Underground Strata **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	984	2	275620 208720
9	**Local Authority Pollution Prevention and Controls** Name: Asda Stores Ltd Location: Asda Petrol Filling Station, Glanyrafon, Godrergraig, Neath Port Talbot, Sa9 2de Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/145 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the road within the address or location	A8NW (SW)	471	3	276184 207808
10	**Local Authority Pollution Prevention and Controls** Name: Hargreaves Industrial Services Location: Tir Bach Road, Ystalyfera, SWANSEA, West Glamorgan, SA9 2HX Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PG 3/5(91)6 Dated: 14th August 1995 Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes **Status: Authorised** Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	991	4	277057 209099
	Nearest Surface Water Feature	A13SE (S)	33	-	276522 208144
11	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Ranch Bridge/Iron Bridge Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 16th October 1997 Incident Reference: 33997 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (S)	0	5	276500 208200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Iron Bridge, YSTALYFERA Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 16th October 1997 Incident Reference: 33997 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (S)	0	5	276500 208195
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Adjacent To Jersey Arms Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 5th November 1997 Incident Reference: 34101 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (N)	29	5	276500 208295
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Gower Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 5th November 1997 Incident Reference: 34101 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (N)	30	5	276505 208295
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Newbridge Fields Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 5th November 1997 Incident Reference: 34101 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (N)	34	5	276500 208300
13	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Under Iron Bridge In, YSTALYFERA Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 14th October 1997 Incident Reference: 33891 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (W)	47	5	276405 208195
13	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Under Iron Bridge, Ystalyfera-Manhole Cover., Not Storm Overflow Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 12th October 1997 Incident Reference: 33890 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (W)	52	5	276400 208195

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 40 Yards Down Stream Of Bridge, Broom Wade On Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 14th September 1995 Incident Reference: 26356 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	A13SW (W)	52	5	276400 208200
14	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Girder Steel Bridge, Above Panteg Weir, PANTEG Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 17th March 1998 Incident Reference: 35108 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	57	5	276600 208200
14	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Under Iron Bridge, YSTALYFERA Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 14th March 1998 Incident Reference: 35107 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	61	5	276600 208195
15	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Broom Wade Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 11th August 1995 Incident Reference: 25404 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	A13SE (SE)	121	5	276600 208100
16	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Panteg (Fish Trap), Right Bank 150 Yards Upstream Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 28th August 1997 Incident Reference: 33524 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Weather Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (S)	166	5	276500 208000
17	**Pollution Incidents to Controlled Waters** Property Type: Waste Handling Facilities Location: 100 M Panteg Weir Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 25th April 1991 Incident Reference: 415 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	A13SW (SW)	192	5	276400 208000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 49/51 Cyfyng Road Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 28th May 1995 Incident Reference: 24379 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	A13NW (N)	234	5	276500 208500
19	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: The Catholic, Pool And Up Stream Of, Panteg Weir Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Carcasses Note: Vandalism Incident Date: 5th August 1995 Incident Reference: 25391 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	A13SW (SW)	248	5	276300 208000
20	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: At Compair Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: River Tawe At Ystalyfera; Spillage Incident Date: 25th August 1997 Incident Reference: 33354 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Vandalism Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	331	5	276300 207900
21	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Panteg Weir Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 29th March 1995 Incident Reference: 23357 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	A18SW (N)	334	5	276500 208600
22	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 10 Darren Road, YSTALYFERA Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 2nd May 1992 Incident Reference: 4582 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	A12SE (SW)	492	5	276000 208000
23	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 100 Metres Upstream Of Confluence At, Twrch And Tawe, Downstream Of Weir Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 1st March 1996 Incident Reference: 27732 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	A14NE (E)	688	5	277200 208495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 100 Meters Up Stream Of Conf, Of Twrch And, Tawe Down Stream Of S T W Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 1st March 1996 Incident Reference: 27732 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	A14NE (E)	690	5	277200 208500
24	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Commercial Street Authority: Environment Agency, Welsh Region Pollutant: Rubble/Litter Or Solids Note: Not Supplied Incident Date: 24th September 1995 Incident Reference: 26405 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)	741	5	276600 209000
25	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewerage Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Sewage Fungus Note: Blocked Sewer Incident Date: 23rd September 1995 Incident Reference: 26330 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	A18NW (N)	741	5	276400 209000
26	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Godrer Graig, Old Sewage Works Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Weather Incident Date: 31st January 1995 Incident Reference: 22570 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	A7SE (SW)	913	5	276000 207400
27	**Pollution Incidents to Controlled Waters** Property Type: Waste Handling Facilities Location: Up Stream Of, Sewage Treatment Works By Lucas, YSTRADGYNLAIS Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 18th April 1991 Incident Reference: 168 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	957	5	277400 208700
	River Quality Name: Twrch GQA Grade: River Quality A Reach: Conf.Tawe - Conf.Nantllynfell Estimated Distance (km): 4.2 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A14SW (E)	340	5	276859 208073

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Swansea Canal GQA Grade: River Quality A Reach: Outfall To Tawe - Intake From Tawe Estimated Distance (km): 10.5 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A8NW (SW)	418	5	276297 207799
	River Quality Name: Tawe GQA Grade: River Quality A Reach: Conf.Nant Cwm Ddu- Conf. Afon Twrch Estimated Distance (km): 4.7 Flow Rate: Flow less than 10 cumecs Flow Type: River Year: 2000	A14SW (SE)	430	5	276845 207909
	River Quality Name: Tawe GQA Grade: River Quality A Reach: Conf.Afon Twrch- Conf. Giedd Estimated Distance (km): 3.8 Flow Rate: Flow less than 10 cumecs Flow Type: River Year: 2000	A14NE (E)	656	5	277209 208338
28	**River Quality Biology Sampling Points** Name: Tawe Reach: Confluence Nant Cwm Ddu To Confluence Afon Twrch Estimated Distance: 4.70 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2002 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2003 GQA Grade: River Quality Biology GQA Grade Not Supplied 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 A - Very 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	A14NW (E)	563	5	277100 208400
29	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 27th January 2005 Incident Reference: 289736 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Sewage Materials: Grey Water	A13SW (S)	74	2	276466 208099

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	**Water Abstractions** Operator: British Waterways Board Licence Number: 22/59/1/0107 Permit Version: 100 Location: Swansea Canal Swansea Valley Authority: Environment Agency, Welsh Region Abstraction: Water Supply Related: Effluent/Slurry Dilution Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Swansea Canal Swansea Valley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	241	5	276250 208065
31	**Water Abstractions** Operator: Brendan Coles Licence Number: Wa/059/0001/0025 Permit Version: Not Supplied Location: Ystalyfera Hydro, Pant-Y-Gwand, Ystalyfera, Neath Port Talbot, Sa9 2nl Authority: Natural Resources Wales Abstraction: Production Of Energy: Hydroelectric Power Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	466	2	276243 208656
31	**Water Abstractions** Operator: Brendan Coles Licence Number: Wa/059/0001/0026 Permit Version: Not Supplied Location: Ystalyfera Hydro, 4 Wernwood Road, Ystalyfera, Swansea, Neath Port Talbot, Sa9 2ne Authority: Natural Resources Wales Abstraction: Impounding Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	466	2	276243 208656
32	**Water Abstractions** Operator: Thomas & Sons (Minerals) Ltd Licence Number: 22/59/1/0086 Permit Version: 100 Location: Spring Within Factory Boundaries Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spring Within Factory Boundaries Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th August 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	706	5	276790 208910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**Water Abstractions** Operator: Mrs J Davies Licence Number: 22/59/1/0097 Permit Version: 100 Location: Afon Twrch Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Tawe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd June 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	771	5	277180 208700
34	**Water Abstractions** Operator: Mrs J Davies Licence Number: 22/59/1/0097 Permit Version: 100 Location: River Tawe Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Afon Twrch Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd June 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SE (E)	898	5	277400 208560
35	**Water Abstractions** Operator: Mrs J Pardue-Wood Licence Number: 22/59/1/0125 Permit Version: 1 Location: Spring At Ynys-Cu House, Ystalyfera Authority: Environment Agency, Welsh Region Abstraction: Private Water Undertaking: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied 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 10m	A14NE (E)	904	5	277450 208400
	Water Abstractions Operator: Mr Kj Jones Licence Number: Wa/059/0001/004 Permit Version: 1 Location: Afon Twrch, Gurnos Viaduct, Gurnos, Ystalyfer - Hep Authority: Natural Resources Wales Abstraction: Production Of Energy: Hydroelectric Power Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th June 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1205	2	277256 209225

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Kevin Jones Licence Number: Wa/059/0001/004 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Production Of Energy: Hydroelectric Power Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1205	2	277256 209225
	Water Abstractions Operator: Kevin Jones Licence Number: Wa/059/0001/006 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Electricity: Hydro-electric Power Generation - Very Low Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24SE (NE)	1221	2	277260 209242
	Water Abstractions Operator: Kevin Jones Licence Number: Wa/059/0001/007 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Electricity: Hydro-electric Power Generation - Very Low Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24SE (NE)	1221	2	277260 209242
	Water Abstractions Operator: Hargreaves Industrial Services Limited Licence Number: 22/59/1/0078 Permit Version: 100 Location: River Twrch At Tirbach Washery Authority: Environment Agency, Welsh Region Abstraction: Extractive: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Twrch At Tirbach Washery Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24SE (NE)	1348	5	277250 209400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Tawe And Tributaries Angling Association Limited Licence Number: 22/59/1/0101 Permit Version: 101 Location: Trib Of Twrch (Lower Cwmtwrch Hatchery) Authority: Natural Resources Wales Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th November 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1995	2	276560 210260
	Water Abstractions Operator: Tawe and Tributaries Angling Association Licence Number: 22/59/1/0101 Permit Version: 100 Location: Trib Of Twrch (Lower Cwmtwrch Hatchery) Authority: Environment Agency, Welsh Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Trib Of Twrch (Lower Cwmtwrch Hatchery) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1995	5	276560 210260
	Water Abstractions Operator: Tawe And Tributaries Angling Association Limited Licence Number: 22/59/1/0101 Permit Version: Not Supplied Location: Lower Cwmtwrch Hatchery Authority: Natural Resources Wales Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1995	2	276560 210260
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NW (SE)	0	2	276505 208218
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (SE)	0	2	276505 208218
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (SE)	0	2	276505 208218
	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 (SE)	0	2	276505 208218

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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 (SE)	0	2	276505 208218
	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	A13SE (SE)	26	2	276545 208178
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13NW (SE)	0	2	276505 208218
	Flood Water Storage Areas None				
	Flood Defences None				
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1441.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Tawe Catchment Name: Tawe Primacy: 1	A13SE (SE)	41	6	276559 208172
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 336.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A13NW (NW)	130	6	276350 208288
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A13SW (W)	170	6	276291 208142
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 2	A13NW (N)	183	6	276442 208440
40	**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	A13NW (N)	183	6	276442 208440
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 233.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A13SW (SW)	198	6	276283 208092
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 202.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 2	A13NW (N)	206	6	276496 208471

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A13NW (N)	246	6	276400 208492
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 134.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A13NW (N)	246	6	276400 208492
45	**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: Tawe Primacy: 1	A13SW (SW)	312	6	276185 208034
46	**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: Tawe Primacy: 1	A13NW (NW)	334	6	276267 208507
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 428.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A13SE (SE)	364	6	276809 207972
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A13SE (SE)	364	6	276831 207998
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A13SE (SE)	364	6	276831 207998
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 300.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8NW (SW)	375	6	276284 207858
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A13SE (SE)	392	6	276843 207968

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 2	A13SE (SE)	392	6	276843 207968
53	**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: Tawe Primacy: 1	A13SE (SE)	396	6	276825 207941
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A18SW (N)	399	6	276342 208633
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 2	A14SW (SE)	401	6	276845 207956
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 2	A14SW (SE)	403	6	276845 207954
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 149.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A17SE (NW)	437	6	276168 208553
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 232.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (NW)	441	6	276151 208540
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (NW)	441	6	276151 208540
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 449.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8NE (S)	443	6	276684 207764

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 126.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (NW)	466	6	276127 208548
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A18SW (NW)	468	6	276240 208657
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A18SW (NW)	500	6	276214 208678
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 109.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A18SW (NW)	500	6	276214 208678
65	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (W)	508	6	275987 208400
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8NE (S)	509	6	276574 207663
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (W)	510	6	275984 208396
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8NW (S)	513	6	276488 207652
69	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 6.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (W)	526	6	275979 208426

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 15.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8NE (S)	528	6	276526 207639
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (NW)	529	6	276014 208492
72	**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: Tawe Primacy: 1	A12NE (W)	532	6	275975 208431
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (NW)	538	6	276002 208490
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8NE (S)	539	6	276516 207627
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (W)	540	6	275967 208433
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 176.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8NW (S)	540	6	276483 207626
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (W)	548	6	275960 208437
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 112.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8NE (S)	549	6	276511 207617

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	**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	A12NE (NW)	553	6	275985 208492
80	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 6.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (W)	559	6	275948 208437
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 94.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (W)	565	6	275942 208440
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 896.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Twrch Catchment Name: Tawe Primacy: 1	A14NW (E)	568	6	277112 208378
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Tawe Catchment Name: Tawe Primacy: 1	A14NW (E)	568	6	277112 208378
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NE (SW)	586	6	275987 207839
85	**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: Tawe Primacy: 1	A14NW (E)	598	6	277138 208397
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 252.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Tawe Catchment Name: Tawe Primacy: 1	A14NW (E)	598	6	277138 208397
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8NE (S)	613	6	276513 207553

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 83.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8NE (S)	615	6	276556 207553
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 417.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SW (S)	642	6	276482 207524
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SW (S)	642	6	276482 207524
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 80.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SW (S)	647	6	276463 207519
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12NE (W)	658	6	275852 208464
93	**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: Tawe Primacy: 1	A12NE (W)	658	6	275852 208464
94	**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: Tawe Primacy: 1	A7NE (SW)	660	6	275924 207799
95	**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: Tawe Primacy: 1	A14NE (E)	660	6	277220 208239
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NE (SW)	661	6	275925 207797

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NE (SW)	669	6	276098 207628
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 128.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NE (SW)	669	6	276098 207628
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 240.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NE (SW)	670	6	276099 207627
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 100.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	681	6	277236 208326
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NE (SW)	693	6	275950 207718
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NE (SW)	696	6	275985 207679
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	696	6	277248 208351
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SW (S)	698	6	276396 207475
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NE (SW)	705	6	275912 207742

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 173.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9NW (SE)	706	6	276910 207592
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 298.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9NW (SE)	706	6	276910 207592
108	**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: Tawe Primacy: 1	A8SW (S)	717	6	276381 207458
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SW (S)	720	6	276372 207457
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A12SW (W)	724	6	275767 207961
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NW (SW)	740	6	275802 207842
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 192.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Tawe Catchment Name: Tawe Primacy: 1	A8SW (S)	751	6	276333 207433
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NE (SW)	757	6	275912 207665
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 232.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	792	6	277339 208386

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	792	6	277339 208386
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 92.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NE (SW)	808	6	275917 207591
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NE (SW)	811	6	275899 207602
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	823	6	277368 208403
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	823	6	277368 208403
120	**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: Tawe Primacy: 1	A7SE (SW)	825	6	275959 207535
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 268.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	828	6	277387 208284
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 433.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Tawe Catchment Name: Tawe Primacy: 1	A14NE (E)	841	6	277349 208532
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	841	6	277349 208532

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NW (SW)	852	6	275826 207618
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	853	6	277391 208437
126	**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: Tawe Primacy: 1	A14NE (E)	853	6	277391 208437
127	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	861	6	275895 207539
128	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7NW (SW)	861	6	275798 207636
129	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	866	6	275931 207504
130	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 190.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9SW (SE)	869	6	277020 207472
131	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 108.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9SW (SE)	870	6	277019 207469
132	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 209.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	873	6	277431 208303

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	**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: Tawe Primacy: 1	A14NE (E)	877	6	277432 208343
134	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 31.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A19SE (E)	879	6	277375 208571
135	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 245.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	895	6	277451 208328
136	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 96.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	898	6	277452 208351
137	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 177.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A18NE (N)	902	6	276634 209157
138	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 170.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	907	6	275939 207448
139	**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: Tawe Primacy: 1	A9SW (SE)	909	6	276957 207381
140	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9SW (SE)	909	6	276957 207381
141	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 64.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A19SE (E)	909	6	277401 208586

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	912	6	275904 207467
143	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 2	A8SW (S)	918	6	276252 207281
144	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SW (S)	922	6	276203 207292
145	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Tawe Catchment Name: Tawe Primacy: 1	A8SW (S)	922	6	276203 207292
146	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SW (S)	925	6	276249 207275
147	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	926	6	275891 207459
148	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 316.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SW (S)	933	6	276261 207263
149	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SE (S)	946	6	276791 207266
150	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	947	6	277494 208402

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
151	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9SE (SE)	948	6	277206 207536
152	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	953	6	277496 208420
153	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	953	6	277496 208420
154	**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: Tawe Primacy: 1	A8SW (S)	954	6	276241 207247
155	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 418.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9SE (SE)	956	6	277196 207513
156	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 202.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A19SE (NE)	961	6	277402 208704
157	**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: Tawe Primacy: 1	A8SW (S)	961	6	276261 207234
158	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A8SW (S)	961	6	276261 207234
159	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A19SE (NE)	963	6	277439 208637

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 76.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A14NE (E)	969	6	277496 208495
161	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 135.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9SW (SE)	970	6	277050 207368
162	**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: Tawe Primacy: 1	A9SW (SE)	970	6	277050 207368
163	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9SW (SE)	970	6	277050 207368
164	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SW (SW)	981	6	275776 207485
165	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 179.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9SW (SE)	985	6	277084 207374
166	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 105.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A9SW (SE)	985	6	277084 207374
167	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A19SE (NE)	987	6	277360 208821
168	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 403.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A15NW (E)	987	6	277535 208397

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
169	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 53.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tawe Primacy: 1	A7SE (SW)	999	6	275847 207401

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Ystalefera Name: Tip - Ystalefera Steel Works Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34812 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A13SE (SE)	59	2	276566 208142
171	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Ystalefera Name: Waste tip from Ystalfera Iron Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34813 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A8NW (SW)	375	2	276297 207850
172	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Ystalefera Name: Ystalefera Waste Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34815 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A14SW (SE)	461	2	276951 207993
	Local Authority Landfill Coverage Name: Neath Port Talbot County Borough Council - Has supplied landfill data		0	3	276505 208218
	Local Authority Landfill Coverage Name: Powys County Council - Has supplied landfill data		660	7	277220 208238
173	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A13NW (SE)	0	-	276505 208218
174	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A13NW (N)	183	-	276459 208445
175	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A13NW (W)	309	-	276179 208342
176	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A13NW (NW)	345	-	276232 208486
177	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A13NW (NW)	345	-	276275 208529

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A18SW (N)	360	-	276377 208605
179	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A17SE (NW)	613	-	276164 208780
180	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A18NE (N)	783	-	276649 209034
181	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A14NE (E)	792	-	277348 208320
182	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A18NW (N)	821	-	276407 209082
183	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A18NE (N)	828	-	276644 209080
184	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A12NW (W)	887	-	275565 208227
185	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A12SW (W)	899	-	275553 208190
186	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A12SW (W)	913	-	275541 208144
187	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A19NW (NE)	937	-	277029 209054
188	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A8SW (S)	938	-	276364 207237
189	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A19NW (N)	953	-	276877 209142
190	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A11SE (W)	982	-	275477 208077
191	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A15SW (E)	997	-	277546 208092
192	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NW (NW)	147	-	276360 208324
193	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	A14NW (E)	619	-	277160 208395

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 (SE)	0	1	276505 208218
	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 (SE)	0	1	276505 208218
	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	A13NW (NW)	137	1	276358 208305
	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	A13SW (SW)	265	1	276274 208000
	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)	274	1	276741 208029
	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	A13NW (W)	275	1	276211 208335
	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	A13NW (NW)	306	1	276192 208361

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: 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)	375	1	276821 207968
	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	A8NW (SW)	384	1	276257 207865
	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	A14NW (E)	440	1	277000 208218
	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	A12SE (SW)	465	1	276031 208000
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	502	1	277000 208000
	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	A9NW (SE)	576	1	276917 207769

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: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A9NW (SE)	592	1	277000 207845
	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	A12NE (W)	668	1	275832 208444
	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	A9NW (SE)	675	1	277000 207714
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (SE)	675	1	277034 207755
	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	A14NE (E)	698	1	277258 208270
	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	A14SE (E)	728	1	277247 208000

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: 45 - 60 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	743	1	277262 208000
	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 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A9NW (SE)	779	1	277082 207651
	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 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14SE (E)	797	1	277320 208000
	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	A9SW (SE)	816	1	276947 207484
	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	A14SE (E)	833	1	277379 208087
	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	A9SW (SE)	834	1	277000 207500

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: 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	A12SW (W)	858	1	275616 208000
	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	A14NE (E)	964	1	277512 208396
	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	A15SW (E)	981	1	277523 208053
	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	A11SE (W)	986	1	275485 208000
194	**BGS Recorded Mineral Sites** Site Name: Ystalyfera Return Slant Location: Ystalyfera, Neath, Neath Port Talbot Source: British Geological Survey, National Geoscience Information Service Reference: 188577 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld 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	A13SW (W)	119	1	276333 208205
195	**BGS Recorded Mineral Sites** Site Name: Cwar Pen-Y-Graig Location: Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124901 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	A13NW (NW)	169	1	276346 208343

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
196	**BGS Recorded Mineral Sites** Site Name: Pwlbach Location: Ystalyfera, Neath, Neath Port Talbot Source: British Geological Survey, National Geoscience Information Service Reference: 188576 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld 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	A13NW (N)	231	1	276458 208493
197	**BGS Recorded Mineral Sites** Site Name: Pwll-Bach Colliery Location: Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124907 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	A13NE (N)	254	1	276508 208520
198	**BGS Recorded Mineral Sites** Site Name: Ynys-Y-Daren Location: Ystralyfera, Swansea, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151423 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	A18SE (NE)	389	1	276692 208608
199	**BGS Recorded Mineral Sites** Site Name: Cwar Pen-Y-Graig Location: Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124892 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	A12NE (NW)	413	1	276108 208424
200	**BGS Recorded Mineral Sites** Site Name: Varteg Colliery Location: Ystalafera, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 150234 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	A8NE (SE)	485	1	276805 207790
201	**BGS Recorded Mineral Sites** Site Name: Blaenmerrig Mine Location: Heol Gerig, Ystalyfera, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 2957 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	555	1	276800 207700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
202	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Graig Coal Level Location: Ystalyfera, Neath, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151782 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	A8NE (S)	626	1	276700 207573
203	**BGS Recorded Mineral Sites** Site Name: Pant-Y-Gwanyd Location: Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124895 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	A17SE (NW)	647	1	276160 208818
204	**BGS Recorded Mineral Sites** Site Name: Pant-Y-Gwanyd Location: Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124896 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Upper Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	689	1	276180 208877
205	**BGS Recorded Mineral Sites** Site Name: Cwar Pen-Y-Graig-Arw Location: Ystalyfera, Neath, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151737 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	A7NW (SW)	743	1	275797 207845
206	**BGS Recorded Mineral Sites** Site Name: Daren Wyddon Location: Ystalyfera, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 191145 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	A14NE (E)	787	1	277347 208267
207	**BGS Recorded Mineral Sites** Site Name: Ty Gwyn-Bach Location: Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124894 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	A17NE (NW)	801	1	276139 208982

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
208	**BGS Recorded Mineral Sites** Site Name: Ty Gwyn-Bach Location: Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124912 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	A18NE (N)	806	1	276656 209056
209	**BGS Recorded Mineral Sites** Site Name: Ty Gwyn-Bach Location: Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124903 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	A18NW (N)	830	1	276399 209090
210	**BGS Recorded Mineral Sites** Site Name: Penygrug Mine Location: Ystalyfera, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 3019 Type: Underground **Status: Ceased** Operator: T. J. Slee Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (S)	873	1	276552 207294
211	**BGS Recorded Mineral Sites** Site Name: Yniscu Colliery & Fire Clay Works Location: Ystalyfera, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 191142 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	884	1	277434 208377
211	**BGS Recorded Mineral Sites** Site Name: Ynys-Y-Geinon Colliery & Fire Clay Works Location: Ystalyfera, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124930 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m	A14NE (E)	914	1	277468 208347
211	**BGS Recorded Mineral Sites** Site Name: Ynys-Y-Geinon Colliery & Fire Clay Works Location: Ystalyfera, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124930 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	A14NE (E)	914	1	277468 208347

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
212	**BGS Recorded Mineral Sites** Site Name: Cwar Pen-Y-Graig-Arw Location: Ystalyfera, Neath, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151736 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	A12SW (W)	891	1	275561 208184
213	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Graig Levels Location: Ystalafera, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 150237 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: No.2 Rhondda Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SW (S)	941	1	276485 207225
213	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Graig Levels Location: Ystalafera, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 150236 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: No.2 Rhondda Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A3NW (S)	972	1	276458 207195
214	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Graig Coal Levels Location: Ystalyfera, Neath, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151748 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	A8SW (S)	971	1	276346 207207
215	**BGS Recorded Mineral Sites** Site Name: Daren Wyddon Location: Ystalyfera, Neath, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151739 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	A15NW (E)	997	1	277557 208273
	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 (SE)	0	8	276505 208218

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (SE)	0	-	276505 208218
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	1	276505 208218
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	137	1	276358 208305
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	172	1	276291 208136
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	1	276505 208218
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	92	1	276583 208120
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	137	1	276358 208305
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	146	1	276391 208060
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	1	276505 208218
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	1	276505 208218
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	16	1	276528 208168
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	25	1	276551 208191
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	66	1	276408 208261
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	83	1	276397 208270
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	110	1	276437 208074
	Potential for Landslide Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	155	1	276299 208228
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	241	1	276274 208033
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	1	276505 208218
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	92	1	276583 208120
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	137	1	276358 208305

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	146	1	276391 208060
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	1	276505 208218
	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 (SE)	0	1	276505 208218
	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 (SE)	0	1	276505 208218

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
216	**Contemporary Trade Directory Entries** Name: I & G Engineering Location: Unit 1, Swansea Valley Business Park, Glanyrafon, Ystalyfera, Swansea, SA9 2EB Classification: Precision Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	22	-	276468 208260
217	**Contemporary Trade Directory Entries** Name: Felindre Inovations Location: Unit 14, Swansea Valley Business Park, Glanyrafon, Ystalyfera, Swansea, SA9 2EB Classification: Fishing & Angling Equipment - Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	68	-	276415 208263
218	**Contemporary Trade Directory Entries** Name: Asda Petrol Location: Glanyrafon, Godrergraig, Swansea, SA9 2DE Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (N)	96	-	276526 208357
219	**Contemporary Trade Directory Entries** Name: W J Harris Location: 51, Cyfyng Road, Ystalyfera, Swansea, SA9 2BS Classification: Wrought Ironwork **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	245	-	276321 208436
220	**Contemporary Trade Directory Entries** Name: Celtic Distribution Ltd Location: Lower Wern Road, Ystalyfera, Swansea, West Glamorgan, SA9 2BR Classification: Classic Car Specialists **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	593	-	276727 208813
221	**Contemporary Trade Directory Entries** Name: M Turner Location: 8, Ffordd Glandwr, Ystalyfera, Swansea, SA9 2ER Classification: Coal & Smokeless Fuel Merchants & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	617	-	277056 208610
221	**Contemporary Trade Directory Entries** Name: Martin Turner Transport Location: 8, Ffordd Glandwr, Ystalyfera, Swansea, SA9 2ER Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	618	-	277059 208606
222	**Contemporary Trade Directory Entries** Name: Ynysydarren Service Station Location: Ynysydarren Rd, Ystalyfera, Swansea, West Glamorgan, SA9 2DY Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	696	-	276957 208814
223	**Contemporary Trade Directory Entries** Name: Old Wern Road Garage Location: Old Wern Road, Ystalyfera, Swansea, SA9 2LL Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	751	-	276895 208914
224	**Contemporary Trade Directory Entries** Name: Thomas & Son Location: Old Wern Road, Ystalyfera, Swansea, West Glamorgan, SA9 2LL Classification: Soft Drinks - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	789	-	276912 208949
224	**Contemporary Trade Directory Entries** Name: Tudor Hall Garage Location: Neuadd Tudor, Old Wern Road, Ystalyfera, Swansea, SA9 2LD Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	809	-	276928 208963

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
224	**Contemporary Trade Directory Entries** Name: Healthy Work Stations Location: 62-64, Commercial Street, Ystalyfera, Swansea, SA9 2HS Classification: Office Furniture & Equipment **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	811	-	276904 208977
224	**Contemporary Trade Directory Entries** Name: Smart Controls Ltd Location: 43-45, Commercial Street, Ystalyfera, Swansea, SA9 2HS Classification: Electrical Engineers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	831	-	276903 208999
225	**Contemporary Trade Directory Entries** Name: Spirit Of The Wood Location: 17, Owens Lane, Godrergraig, Swansea, SA9 2DQ Classification: Industrial Instrument & Apparatus Manufacturers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	797	-	275924 207598
226	**Contemporary Trade Directory Entries** Name: T R L Ltd Location: 88, Commercial Street, Ystalyfera, Swansea, SA9 2HU Classification: Cleaning Services - Commercial **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	873	-	276992 209000
227	**Contemporary Trade Directory Entries** Name: A And J Installations (South Wales) Ltd Location: 49, Alltygrug Road, Ystalyfera, Swansea, SA9 2AQ Classification: Floorcoverings - Manufacturers & Wholesalers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	877	-	276788 209093
228	**Contemporary Trade Directory Entries** Name: Hi-Quality Harnesses Ltd Location: 10, Gurnos Road, Ystalyfera, Swansea, SA9 2HY Classification: Electronic Component Manufacturers & Distributors **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	929	-	277076 209014
229	**Fuel Station Entries** Name: Asda Ystalyfera Automat Location: A4067 , Ystalyfera Glanyrafon, Neath, Neath Port Talbot, SA9 2DE Brand: Asda Premises Type: Hypermarket **Status:** **Open** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	97	-	276561 208343
230	**Points of Interest - Commercial Services** Name: W J Harris Location: 51 Cyfyng Road, Ystalyfera, Swansea, SA9 2BS Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13NW (NW)	245	9	276321 208436
231	**Points of Interest - Commercial Services** Name: UK Movements Ltd Location: 96 Varteg Road, Ystalyfera, Swansea, SA9 2EN Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14NW (NE)	536	9	277021 208517
232	**Points of Interest - Commercial Services** Name: Martin Turner Transport Location: 8 Ffordd Glandwr, Ystalyfera, Swansea, SA9 2ER Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A19SW (NE)	617	9	277058 208606
233	**Points of Interest - Commercial Services** Name: D P Tibbs Motors Location: Ynysdarren Garage, Ynysydarren Road, Ystalyfera, SA9 2DY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SW (NE)	679	9	276966 208786
234	**Points of Interest - Commercial Services** Name: Old Wern Road Garage Location: Old Wern Road, Ystalyfera, Swansea, SA9 2LL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19NW (NE)	751	9	276895 208914

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
234	**Points of Interest - Commercial Services** Name: Old Wern Road Garage Location: Old Wern Road, Ystalyfera, Swansea, SA9 2LL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19NW (NE)	751	9	276895 208914
235	**Points of Interest - Manufacturing and Production** Name: Swansea Valley Business Park Location: SA9 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	51	9	276434 208262
235	**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 (NW)	54	9	276432 208264
236	**Points of Interest - Manufacturing and Production** Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	93	9	276531 208352
236	**Points of Interest - Manufacturing and Production** Name: Factory Location: SA9 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	98	9	276541 208354
237	**Points of Interest - Manufacturing and Production** Name: Mine (Disused) Location: SA9 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	512	9	276844 207789
237	**Points of Interest - Manufacturing and Production** Name: Mine (Disused) Location: SA9 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	512	9	276844 207789
238	**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	A19NW (NE)	769	9	276917 208923
239	**Points of Interest - Manufacturing and Production** Name: Quarries (Disused) Location: SA9 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	867	9	277427 208266
239	**Points of Interest - Manufacturing and Production** Name: Quarries (Disused) Location: SA9 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A14NE (E)	900	9	277460 208262
240	**Points of Interest - Manufacturing and Production** Name: Mine Location: SA9 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	872	9	276563 207296
240	**Points of Interest - Manufacturing and Production** Name: Mine Location: SA9 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	875	9	276554 207292

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
241	**Points of Interest - Public Infrastructure** Name: Asda Ystalyfera Automat Location: A4067, Ystalyfera, Glanyrafon, Neath, SA9 2DE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	97	9	276561 208343
241	**Points of Interest - Public Infrastructure** Name: Asda Petrol Location: Glanyrafon, Godrergraig, Swansea, SA9 2DE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	97	9	276561 208343
242	**Points of Interest - Public Infrastructure** Name: Outfall Location: SA9 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	291	9	276326 207931
242	**Points of Interest - Public Infrastructure** Name: Weir Location: SA9 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	330	9	276338 207877
242	**Points of Interest - Public Infrastructure** Name: Weir Location: SA9 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	334	9	276331 207876
242	**Points of Interest - Public Infrastructure** Name: Sluice Location: SA9 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	344	9	276305 207881
242	**Points of Interest - Public Infrastructure** Name: Sluice Location: SA9 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	344	9	276310 207878
243	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: SA9 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	492	9	276980 207985
243	**Points of Interest - Public Infrastructure** Name: Heap (Dis) Location: SA9 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	502	9	276949 207925
243	**Points of Interest - Public Infrastructure** Name: Heap (Dis) Location: SA9 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	535	9	277039 208004
244	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: SA9 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	493	9	276109 208570
244	**Points of Interest - Public Infrastructure** Name: Heap (Dis) Location: SA9 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	494	9	276107 208569

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
245	**Points of Interest - Public Infrastructure** Name: Weirs Location: SA9 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	545	9	277088 208379
246	**Points of Interest - Public Infrastructure** Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	651	9	276018 207710
246	**Points of Interest - Public Infrastructure** Name: Cemetery Location: SA9 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	678	9	275979 207710
247	**Points of Interest - Public Infrastructure** Name: Weir Location: SA9 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	711	9	277234 208468
248	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: SA9 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A18NW (NW)	737	9	276182 208932
248	**Points of Interest - Public Infrastructure** Name: Heap (Dis) Location: SA9 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A18NW (NW)	738	9	276181 208933
249	**Points of Interest - Public Infrastructure** Name: Ystalyfera Police Office Location: Ynysdarren Road, Ystalyfera, SA9 2DY Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A19NW (NE)	809	9	277002 208920
250	**Points of Interest - Public Infrastructure** Name: Outfall Location: SA9 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A19SE (E)	922	9	277423 208567
250	**Points of Interest - Public Infrastructure** Name: Outfall Location: SA9 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A19SE (E)	930	9	277427 208578
251	**Points of Interest - Public Infrastructure** Name: Heap (Dis) Location: SA9 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	955	9	277510 208337
251	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: SA9 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A15NW (E)	977	9	277531 208349
252	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: SA9 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	993	9	276950 209156

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
252	**Points of Interest - Public Infrastructure** Name: Tip (Disused) Location: SA9 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	997	9	276950 209160
253	**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	A13NE (NE)	301	9	276784 208443
253	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Ffordd Emlyn), SA9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	301	9	276784 208443
254	**Points of Interest - Recreational and Environmental** Name: Playground Location: Nr Woodmans Terrace, SA9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A18SE (NE)	382	9	276683 208604
254	**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	A18SE (NE)	385	9	276692 208604
255	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Minyffordd), SA9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A14NW (NE)	425	9	276904 208491
255	**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	A14NW (NE)	433	9	276917 208487
256	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	522	9	276751 208728
257	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Ffordd Glandwr), SA9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A19SW (NE)	585	9	276999 208628
257	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Ffordd Glandwr), SA9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	595	9	277003 208639
258	**Points of Interest - Recreational and Environmental** Name: Playground Location: Hodgson'S Road, SA9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A7NE (SW)	646	9	276161 207614
259	**Points of Interest - Recreational and Environmental** Name: Playground Location: Clyngwyn Road, SA9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A19NW (NE)	996	9	276905 209177

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
260	**Ancient Woodland** Name: Not Supplied Reference: 7878 Area(m²): 23132.55 Type: Ancient and Semi-Natural Woodland	A14SW (E)	373	2	276932 208209
261	**Ancient Woodland** Name: Not Supplied Reference: 14071 Area(m²): 9997.45 Type: Ancient and Semi-Natural Woodland	A8NE (SE)	495	2	276719 207724
262	**Ancient Woodland** Name: Not Supplied Reference: 7351 Area(m²): 28602.77 Type: Ancient and Semi-Natural Woodland	A18SW (NW)	499	2	276211 208674
263	**Ancient Woodland** Name: Not Supplied Reference: 7350 Area(m²): 35848.62 Type: Ancient and Semi-Natural Woodland	A14NE (E)	674	2	277230 208313
264	**Ancient Woodland** Name: Not Supplied Reference: 14072 Area(m²): 15776.99 Type: Ancient and Semi-Natural Woodland	A18NW (N)	754	2	276487 209020
265	**Ancient Woodland** Name: Not Supplied Reference: 21418 Area(m²): 5643.98 Type: Restored Ancient Woodland Site	A19NW (NE)	896	2	276935 209056
266	**Ancient Woodland** Name: Not Supplied Reference: 21417 Area(m²): 9414.98 Type: Restored Ancient Woodland Site	A19SE (NE)	948	2	277338 208783
267	**Ancient Woodland** Name: Not Supplied Reference: 16873 Area(m²): 5645.54 Type: Ancient and Semi-Natural Woodland	A15NW (E)	991	2	277541 208380
268	**Ancient Woodland** Name: Not Supplied Reference: 9493 Area(m²): 43290.29 Type: Ancient and Semi-Natural Woodland	A15NW (E)	995	2	277545 208383
269	**Ancient Woodland** Name: Not Supplied Reference: 16875 Area(m²): 2414.32 Type: Ancient and Semi-Natural Woodland	A15NW (E)	999	2	277549 208387

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Powys County Council - Public Protection Department	February 2015	Annual Rolling Update
Neath Port Talbot County Borough Council - Environmental Health Department	March 2015	Annual Rolling Update
Carmarthenshire County Council - Environmental Health Department	October 2014	Annual Rolling Update
Discharge Consents		
Natural Resources Wales	April 2020	Quarterly
Environment Agency - Welsh Region	August 2014	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Integrated Pollution Controls		
Environment Agency - Welsh Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	April 2020	Quarterly
Natural Resources Wales	April 2020	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Neath Port Talbot County Borough Council - Environmental Health Department	August 2012	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		
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
Merthyr Tydfil County Borough Council - Environmental Health Department	September 2016	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Neath Port Talbot County Borough Council - Environmental Health Department	March 2014	Variable
Powys County Council - Public Protection Department	May 2014	Variable
Carmarthenshire County Council - Environmental Health Department	September 2013	Variable
Nearest Surface Water Feature		
Ordnance Survey	April 2020	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Natural Resources Wales	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Natural Resources Wales	March 2013	Annual Rolling Update
Registered Radioactive Substances		
Natural Resources Wales	January 2015	Annually
Environment Agency - Welsh Region	June 2016	
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency Wales - South East Area	April 2020	Quarterly
Environment Agency Wales - South West Area	April 2020	Quarterly
Natural Resources Wales	April 2020	Quarterly
Water Abstractions		
Environment Agency - Welsh Region	April 2020	Quarterly
Natural Resources Wales	April 2020	Quarterly

Agency & Hydrological	Version	Update Cycle
Water Industry Act Referrals		
Natural Resources Wales	April 2020	Quarterly
Environment Agency - Welsh Region	October 2017	Quarterly
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Source Protection Zones		
Natural Resources Wales	November 2016	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	August 2019	Quarterly
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	May 2020	Quarterly
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	March 2020	Quarterly
Surface Water 1 in 30 year Flood Extent		
Natural Resources Wales	October 2013	Annually
Surface Water 1 in 100 year Flood Extent		
Natural Resources Wales	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent		
Natural Resources Wales	October 2013	Annually
Surface Water Suitability		
Natural Resources Wales	October 2013	Annually
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Natural Resources Wales	July 2017	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency Wales - South East Area	November 2019	Quarterly
Environment Agency Wales - South West Area	November 2019	Quarterly
Natural Resources Wales	November 2019	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency Wales - South East Area	April 2020	Quarterly
Environment Agency Wales - South West Area	April 2020	Quarterly
Natural Resources Wales	April 2020	Quarterly
Local Authority Landfill Coverage		
Carmarthenshire County Council	May 2000	Not Applicable
Neath Port Talbot County Borough Council - Environmental Health Department	May 2000	Not Applicable
Powys County Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Carmarthenshire County Council	May 2000	Not Applicable
Powys County Council	May 2000	Not Applicable
Neath Port Talbot County Borough Council - Environmental Health Department	September 2003	Not Applicable
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites		
Environment Agency Wales - South East Area	March 2003	Not Applicable
Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - South East Area	March 2003	Not Applicable
Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - South East Area	March 2003	Not Applicable
Environment Agency Wales - South West Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
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
Powys County Council - Planning Department	February 2016	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
Neath Port Talbot County Borough Council - Planning Department	October 2015	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry		
British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	October 2019	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability		
Ove Arup & Partners	October 2000	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	January 2019	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2020	Quarterly
Fuel Station Entries Catalist Ltd - Experian	April 2020	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	March 2020	Quarterly
Points of Interest - Education and Health PointX	March 2020	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2020	Quarterly
Points of Interest - Public Infrastructure PointX	March 2020	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2020	Quarterly
Underground Electrical Cables National Grid	October 2019	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	August 2018	Bi-Annually
Areas of Adopted Green Belt		
Brecon Beacons National Park	February 2020	As notified
Carmarthenshire County Council	February 2020	As notified
Neath Port Talbot County Borough Council - Planning Services	February 2020	As notified
Powys County Council	February 2020	As notified
Areas of Unadopted Green Belt		
Brecon Beacons National Park	February 2020	As notified
Carmarthenshire County Council	February 2020	As notified
Neath Port Talbot County Borough Council - Planning Services	February 2020	As notified
Powys County Council	February 2020	As notified
Areas of Outstanding Natural Beauty		
Natural Resources Wales	June 2019	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Carmarthenshire County Council	August 2018	Bi-Annually
Neath Port Talbot County Borough Council	August 2018	Bi-Annually
Powys County Council	August 2018	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves		
Natural Resources Wales	June 2019	Bi-Annually
National Parks		
Natural Resources Wales	August 2018	Annually
Nitrate Vulnerable Zones		
Natural Resources Wales	July 2019	Bi-Annually
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	
Ramsar Sites		
Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2018	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2018	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett

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	**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
4	**Merthyr Tydfil County Borough Council - Environmental Health Department** Civic Centre, Castle Street, Merthyr Tydfil, Mid Glamorgan, CF47 8AN	Telephone: 01685 725000 Fax: 01685 725024 Website: www.merthyr.gov.uk
5	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
6	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
7	**Powys County Council** County Hall, Llandrindod Wells, Powys, LD1 5LG	Telephone: 01597 826000 Fax: 01597 826230 Website: www.powys.gov.uk
8	**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
9	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	**Neath Port Talbot County Borough Council** Civic Centre, Port Talbot, West Glamorgan, SA13 1PJ	Telephone: 01639 763333 Fax: 01693 763444 Website: www.neath-porttalbot.gov.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.

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

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

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
		Faults		
		Rock Segments		

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	PEAT	Peat	Peat	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LLFB	Llynfi Member	Sandstone	Not Supplied - Westphalian
	SWUCM	South Wales Upper Coal Measures Formation	Mudstone, Siltstone and 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
	SWLCM	South Wales Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian

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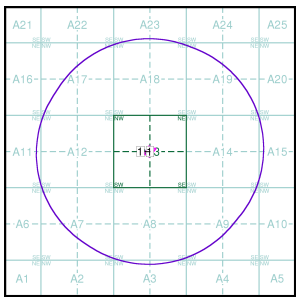
Geology 1:50,000 Maps

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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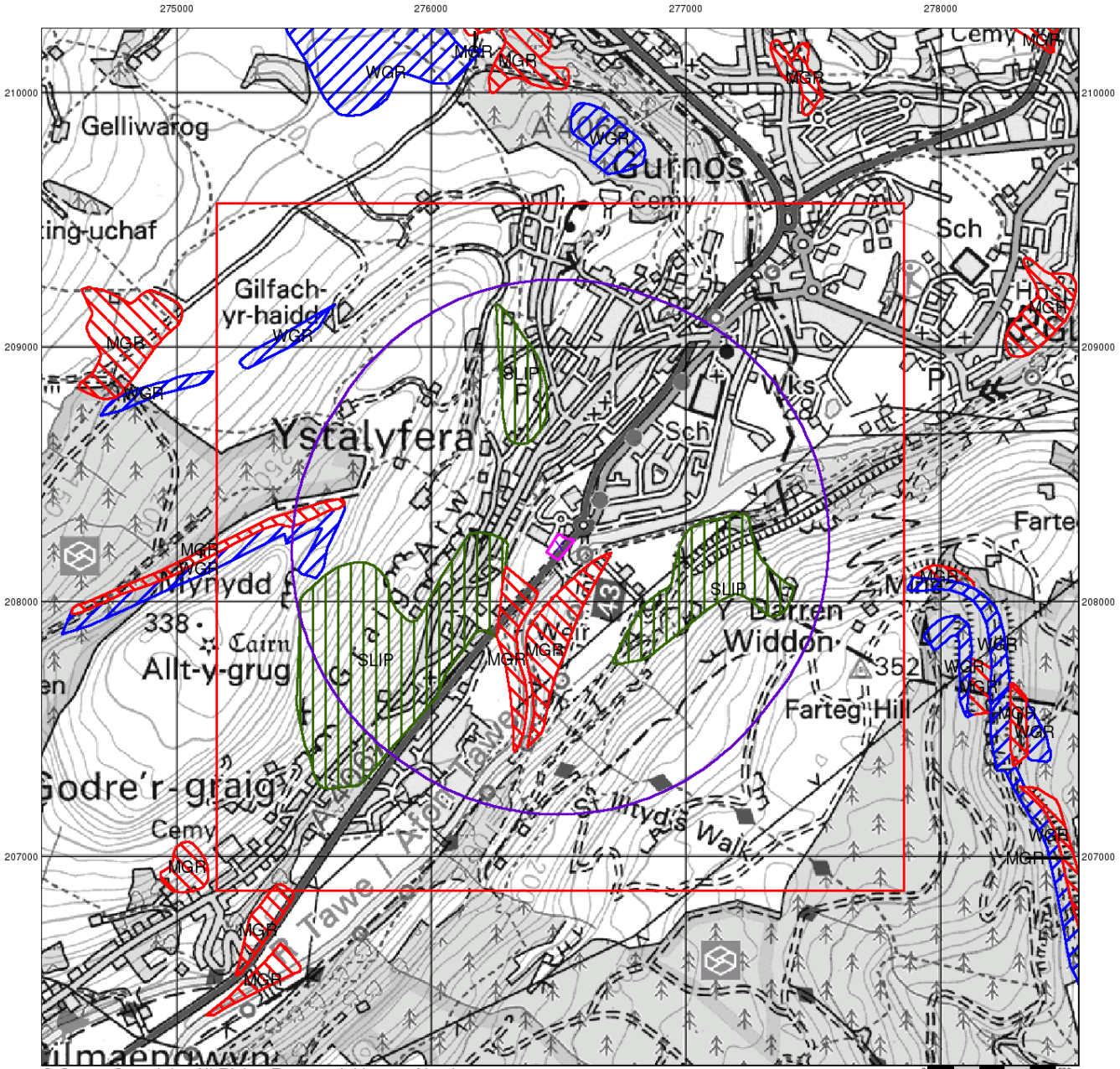
Customer Reference:	16035 - Ystalyfera
National Grid Reference:	276500, 208220
Slice:	A
Site Area (Ha):	0.55
Search Buffer (m):	1000

Site Details:

Swansea Valley Business Park, Ystalyfera, Swansea

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



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Artificial Ground and Landslip

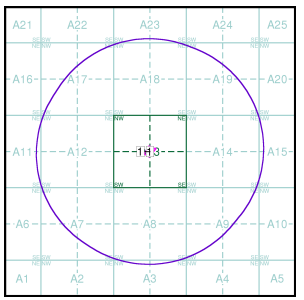
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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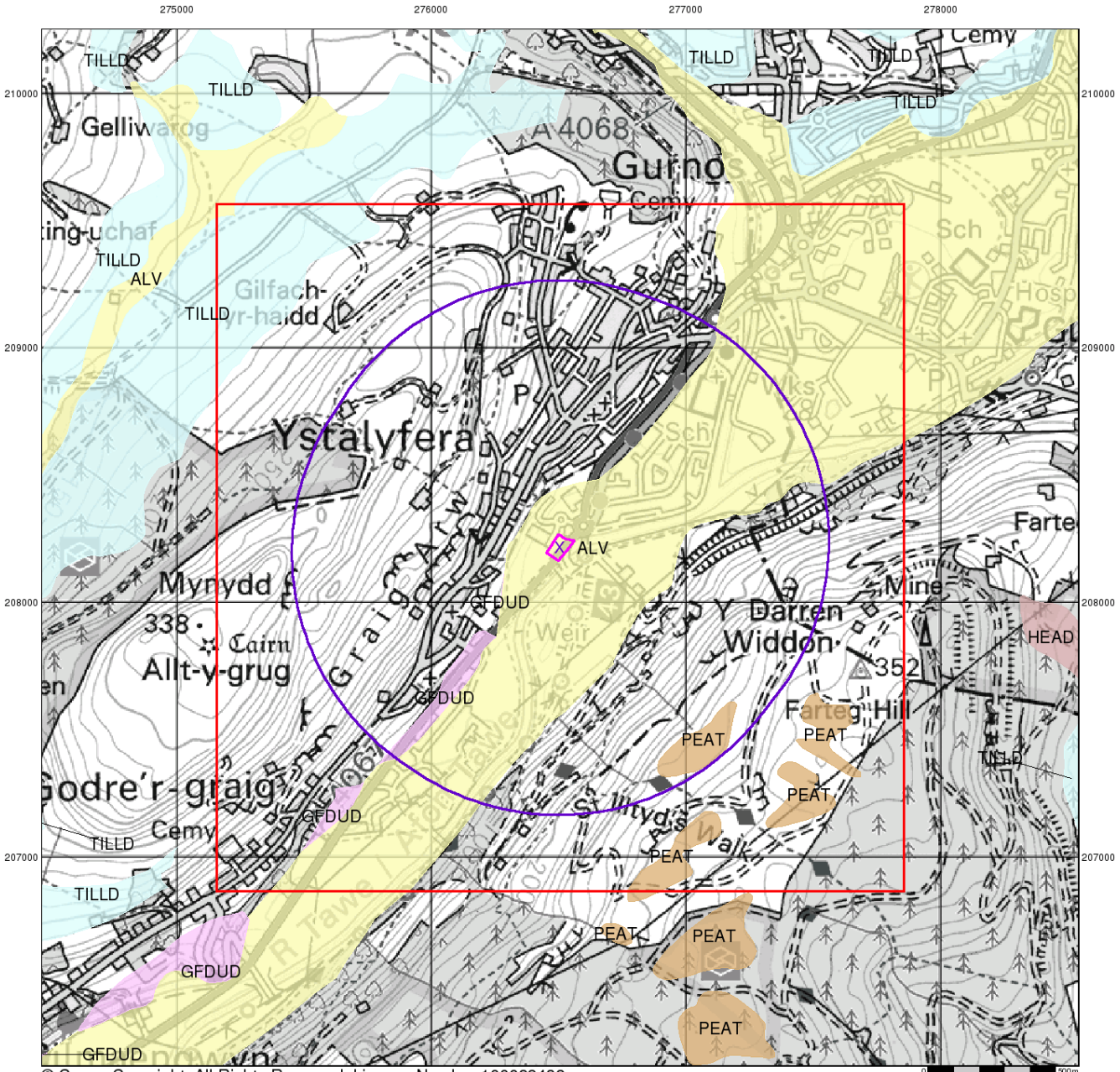

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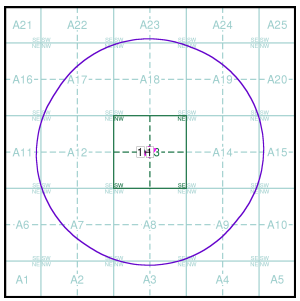
Superficial Geology

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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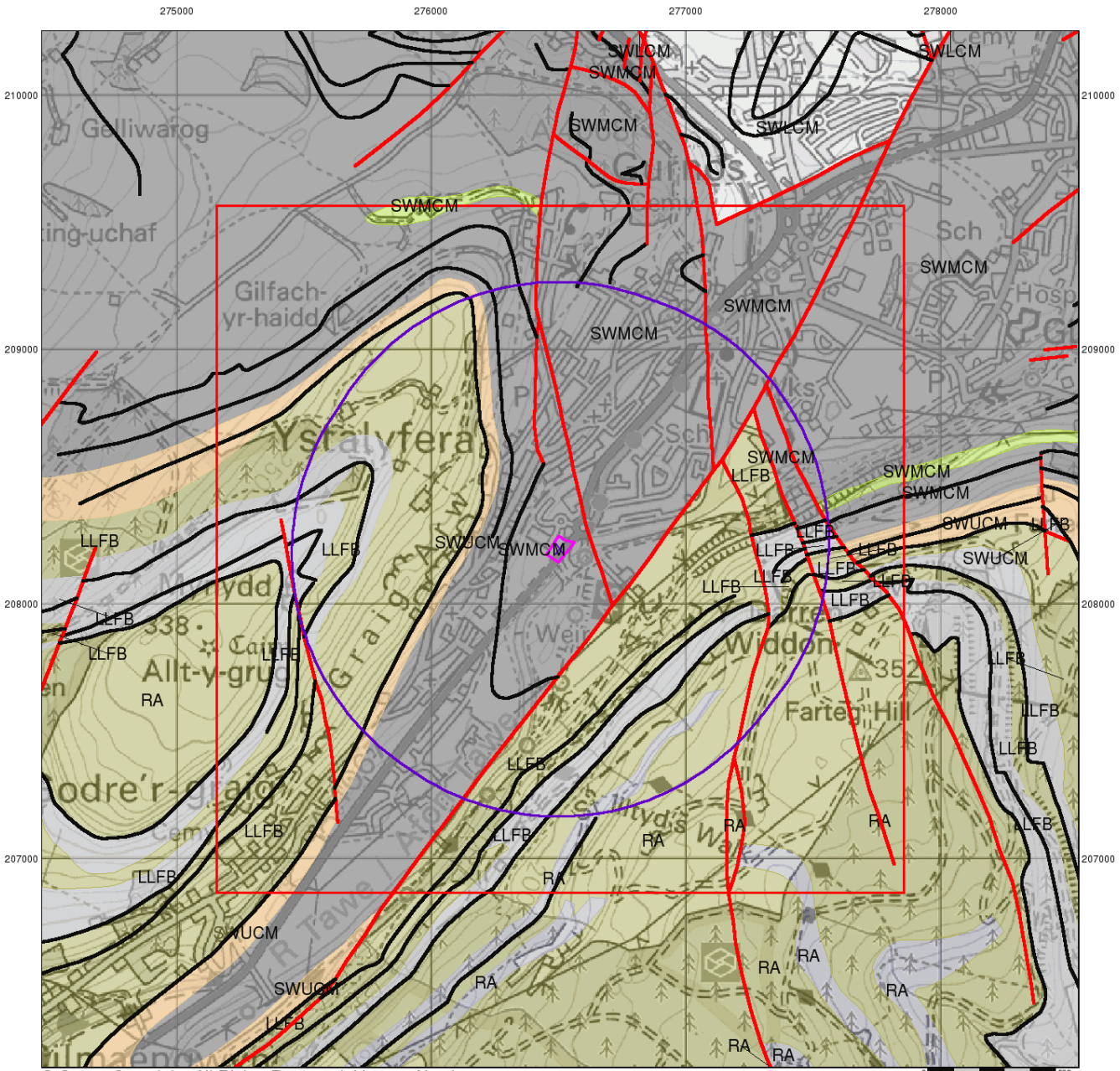

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Bedrock and Faults

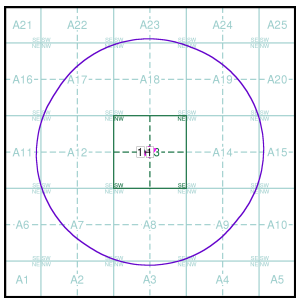
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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



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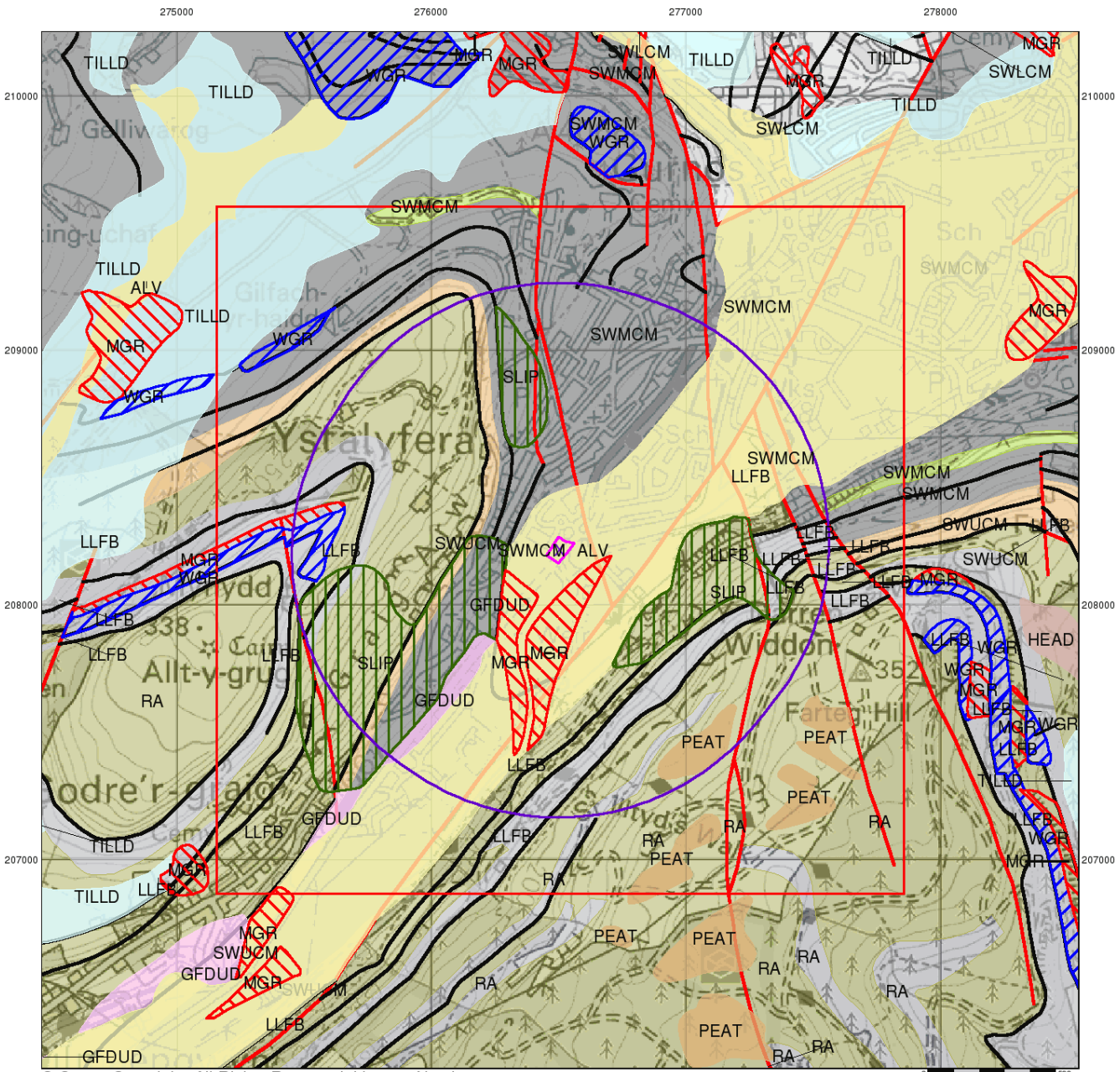

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Combined Surface Geology

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.

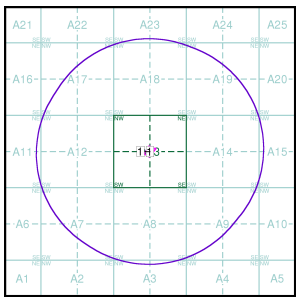
Additional Information

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



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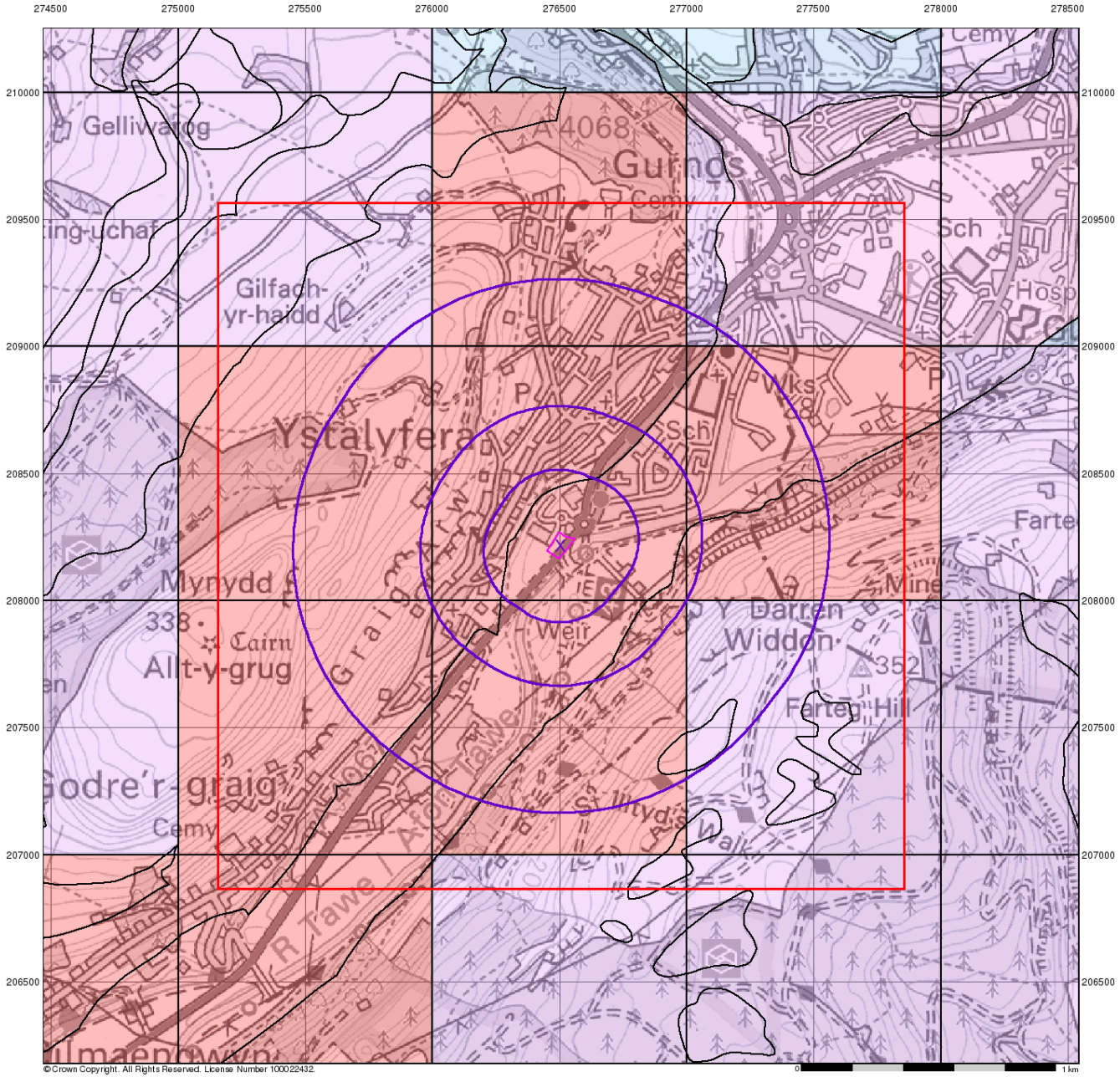
Swansea Valley Business Park, Ystalyfera, Swansea



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Groundwater Vulnerability

General

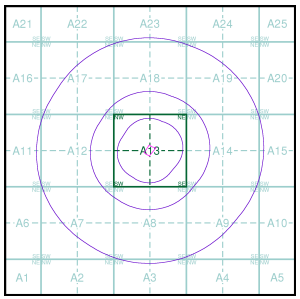
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

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



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Site Details

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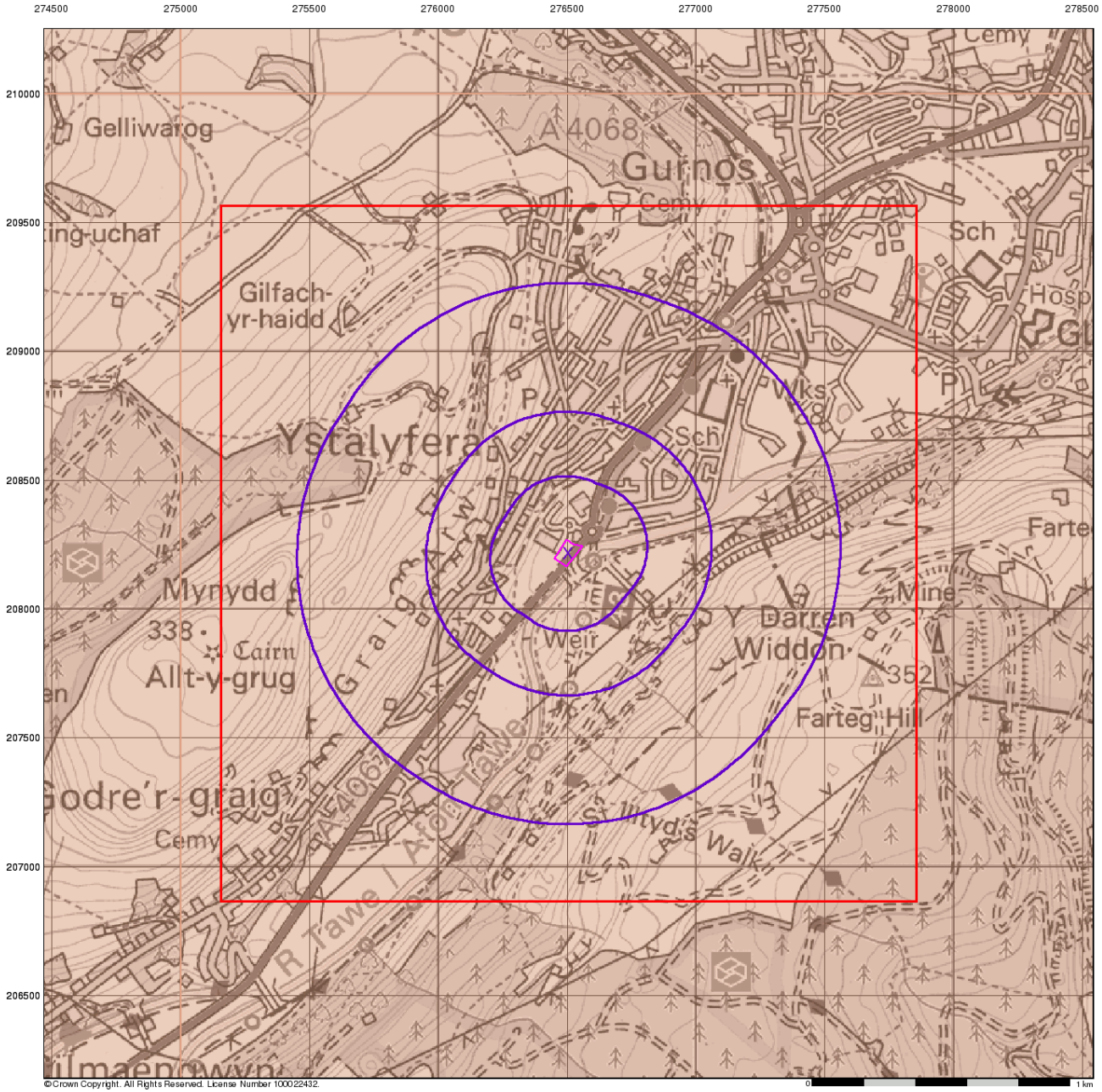

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Bedrock Aquifer Designation

General

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

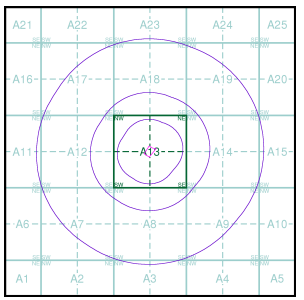
Slice | Map ID

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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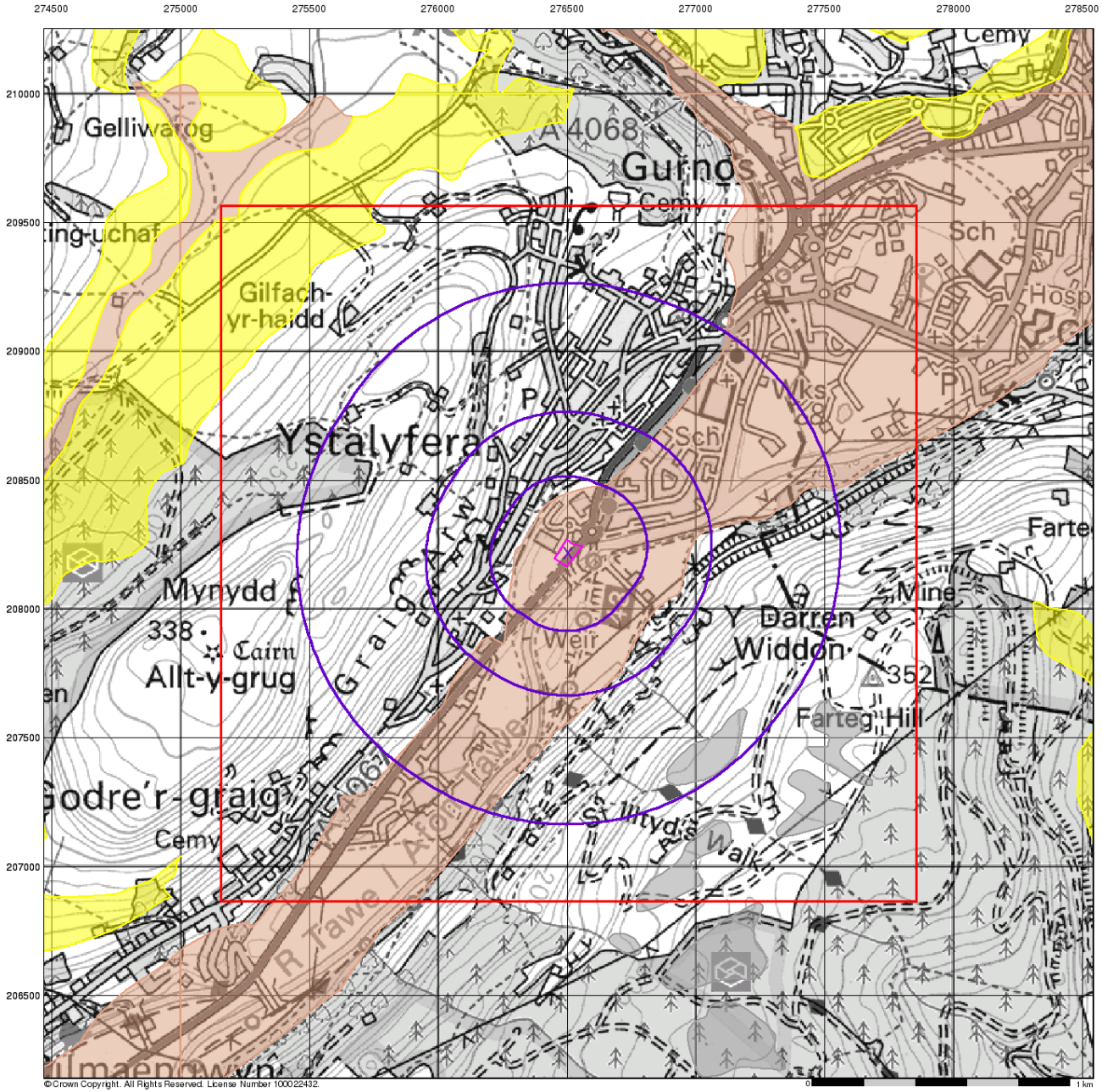

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Superficial Aquifer Designation

General

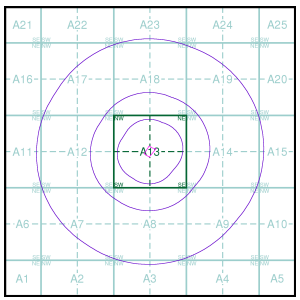
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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



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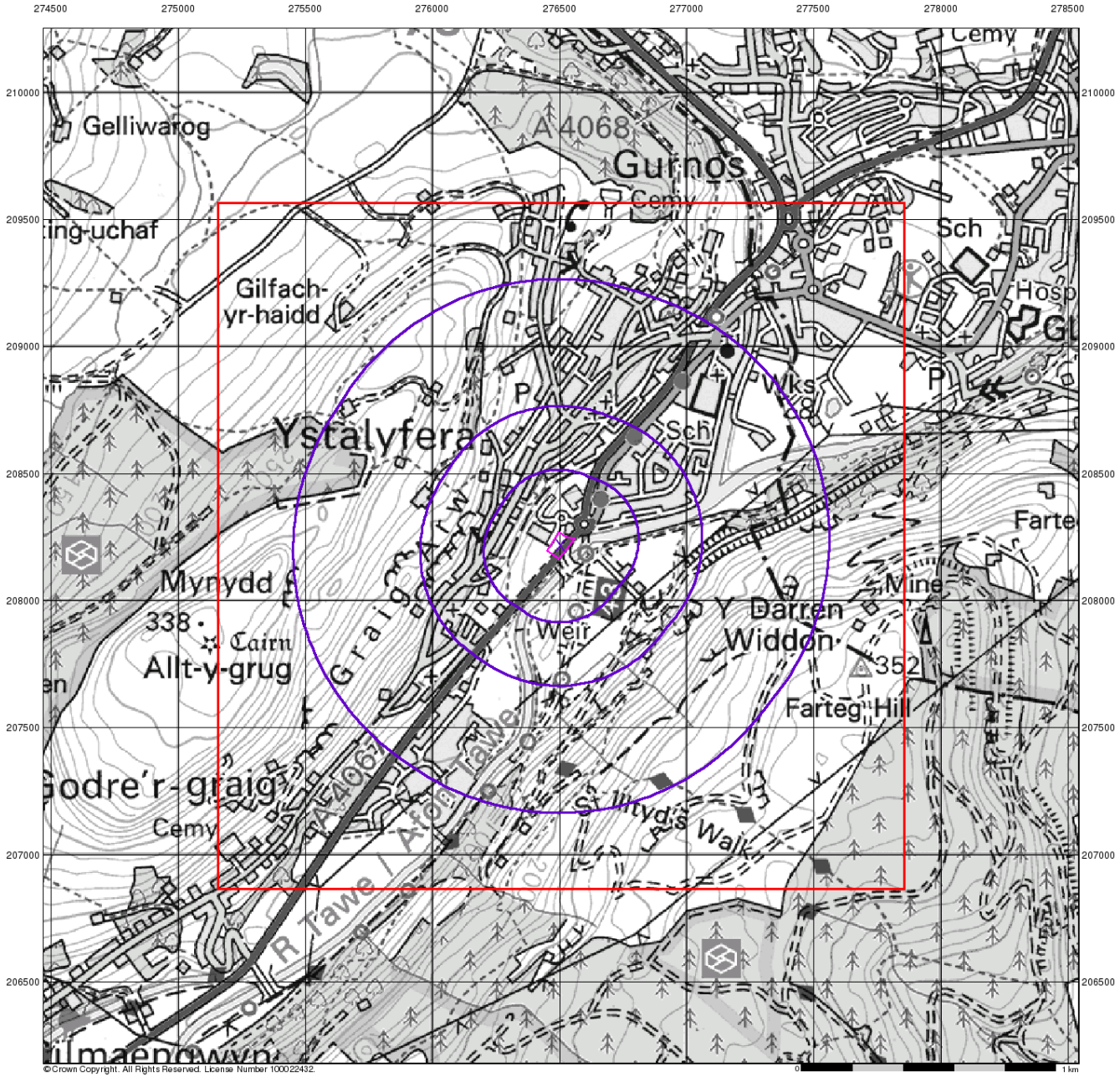

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Source Protection Zones

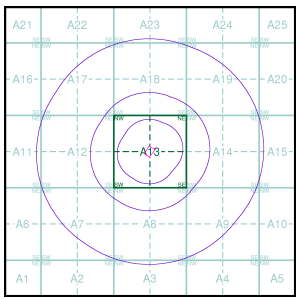
General

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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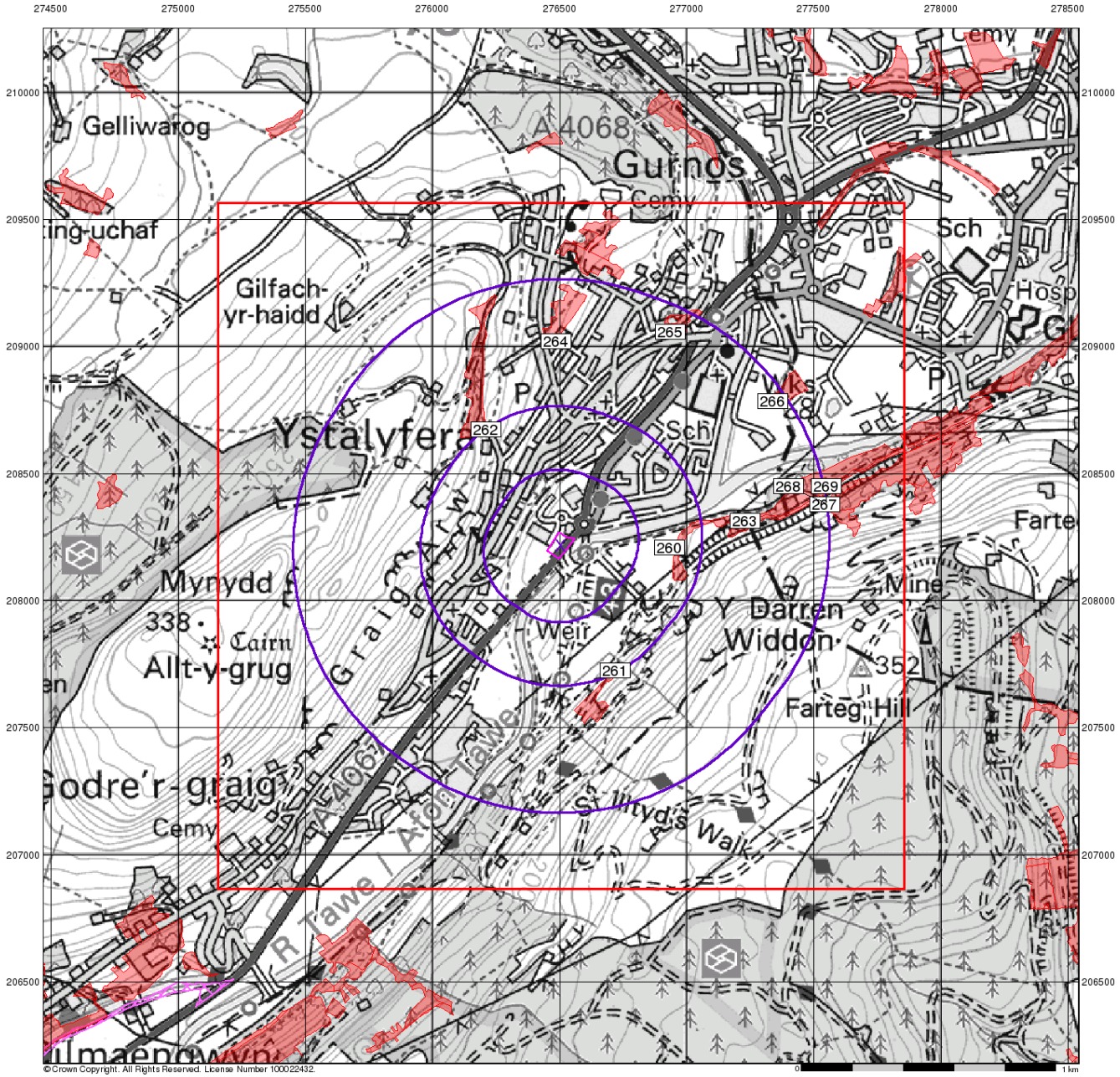

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Sensitive Land Uses

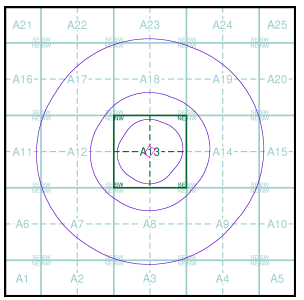
General

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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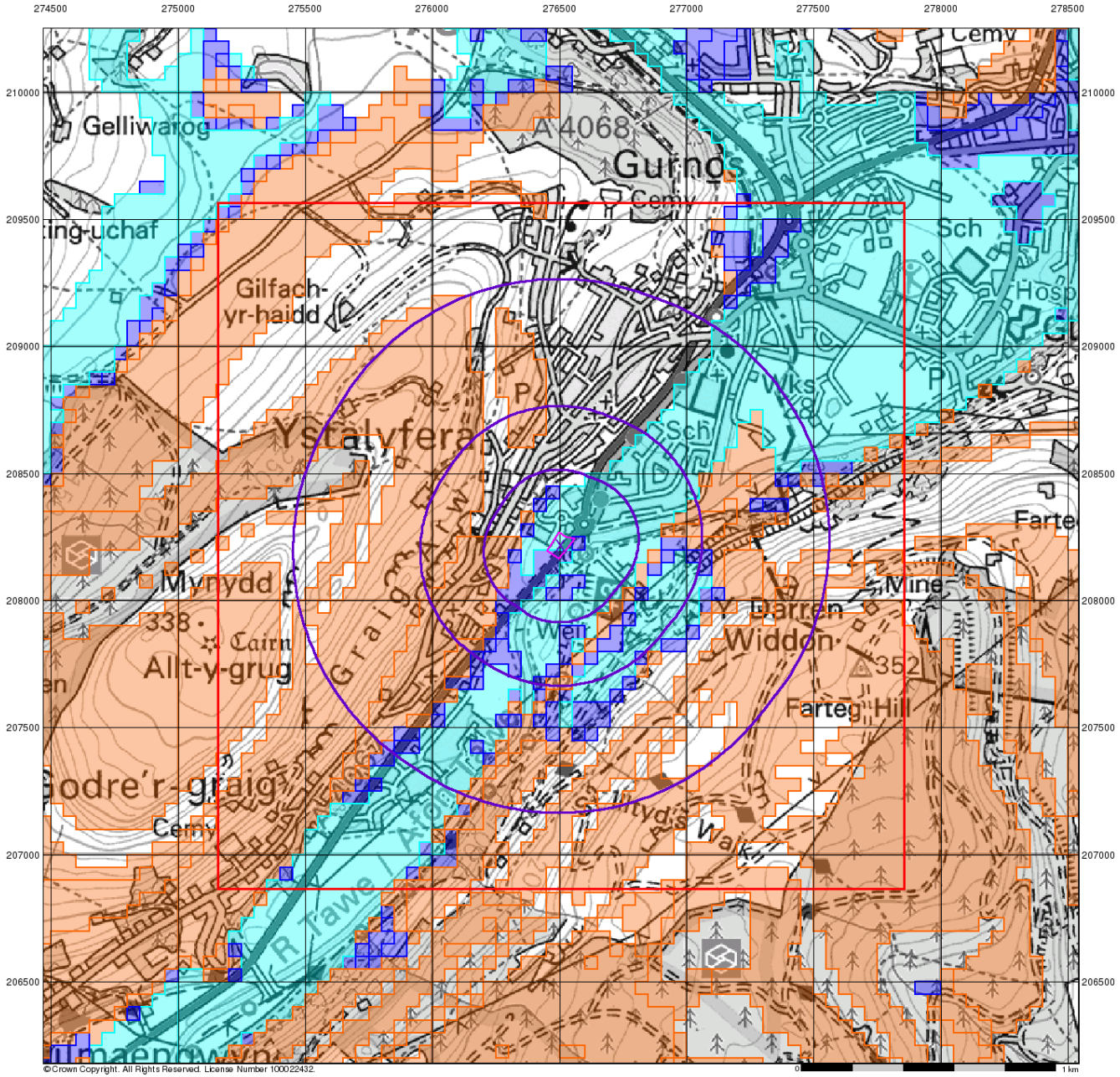

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BGS Flood GFS Data

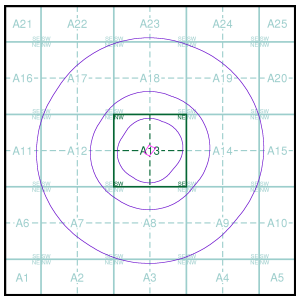
General

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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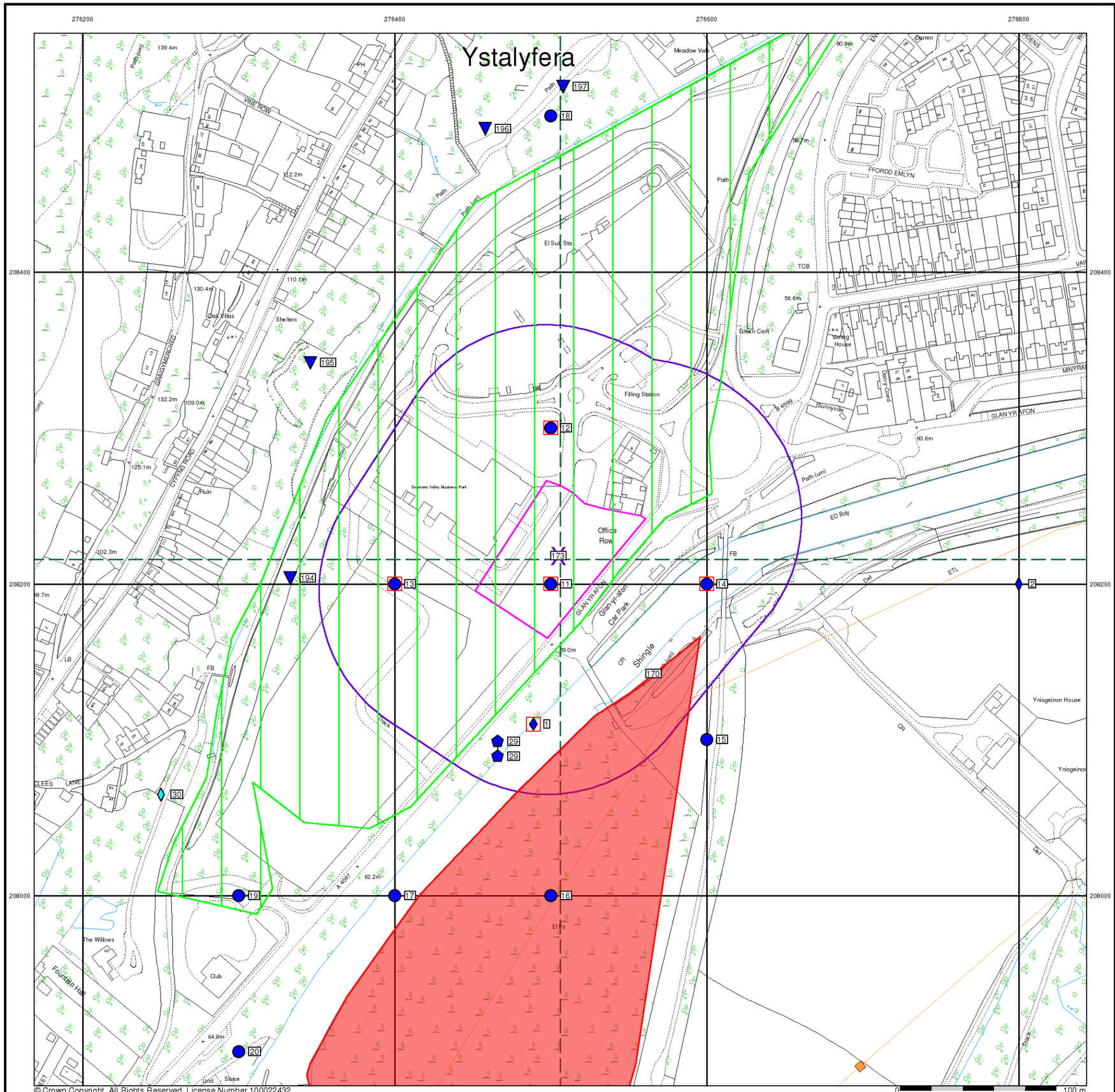

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General

- 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

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

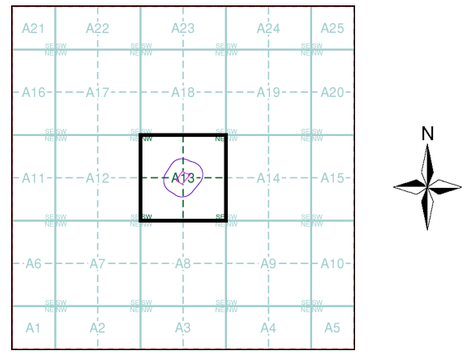
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

Order Number:	243530586_1_1
Customer Ref:	16035 - Ystalyfera
National Grid Reference:	276500, 208220
Slice:	A
Site Area (Ha):	0.55
Plot Buffer (m):	100

Site Details

Swansea Valley Business Park, Ystalyfera, Swansea

Landmark INFORMATION GROUP

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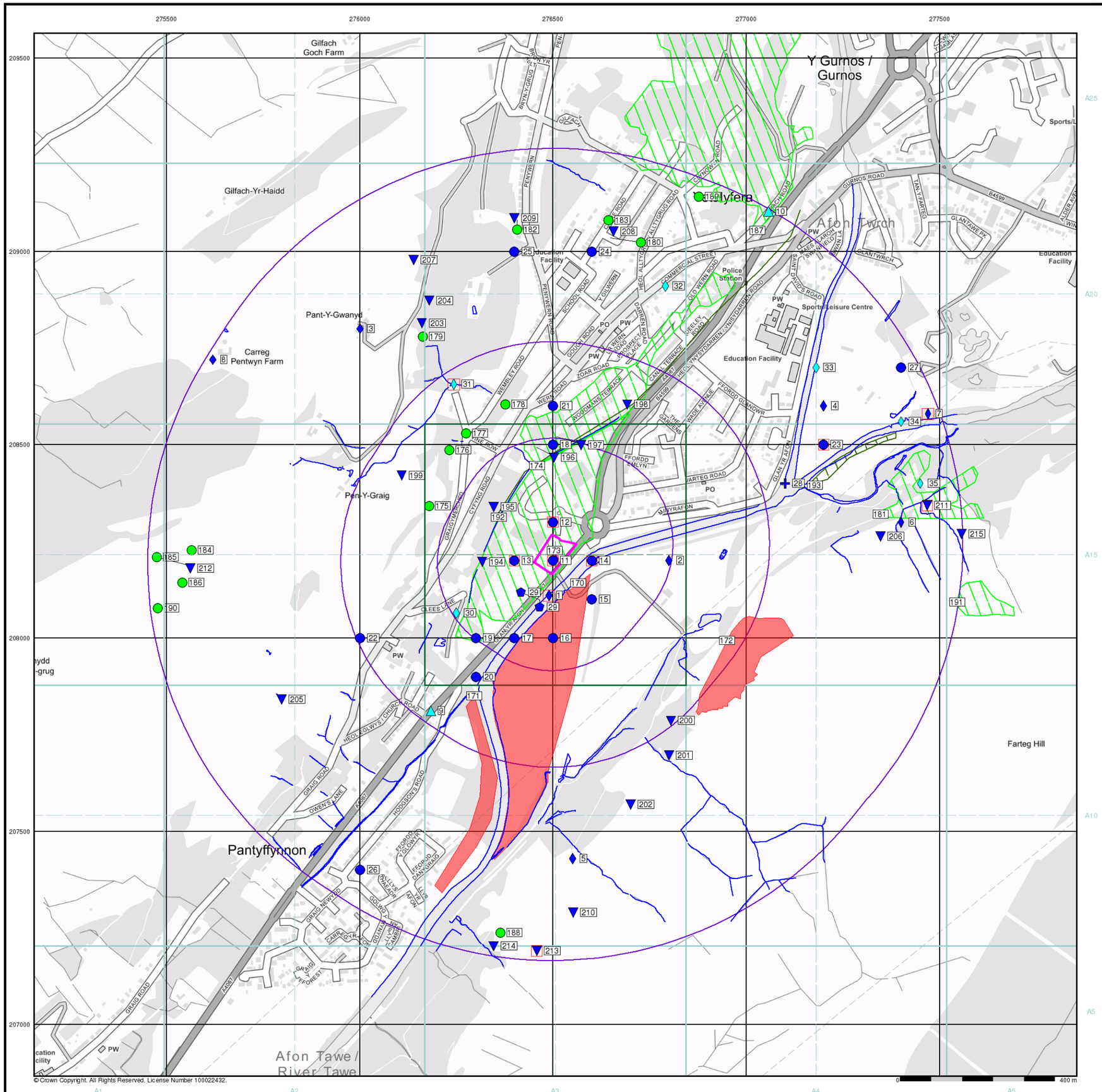

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General

- 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

Hazardous Substances

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

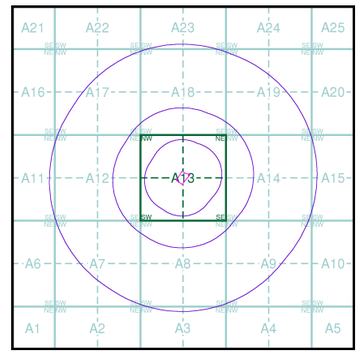
Geological

- 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 - Slice A



Order Details

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Search Buffer (m):	1000

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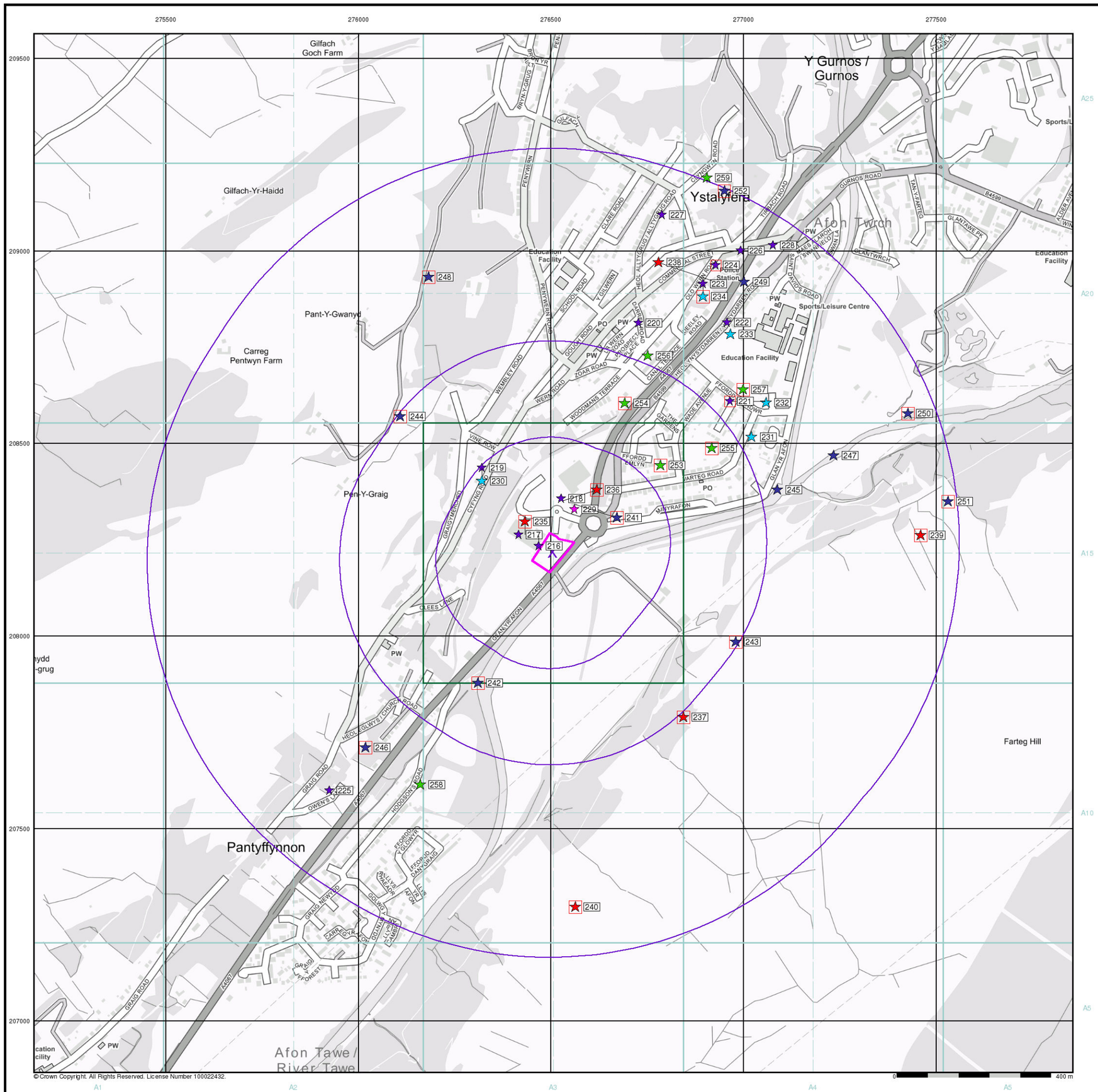

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Industrial Land Use Map

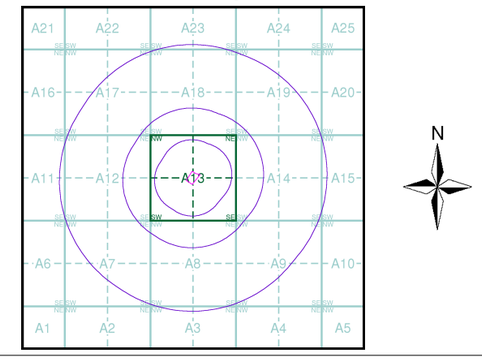
General

- 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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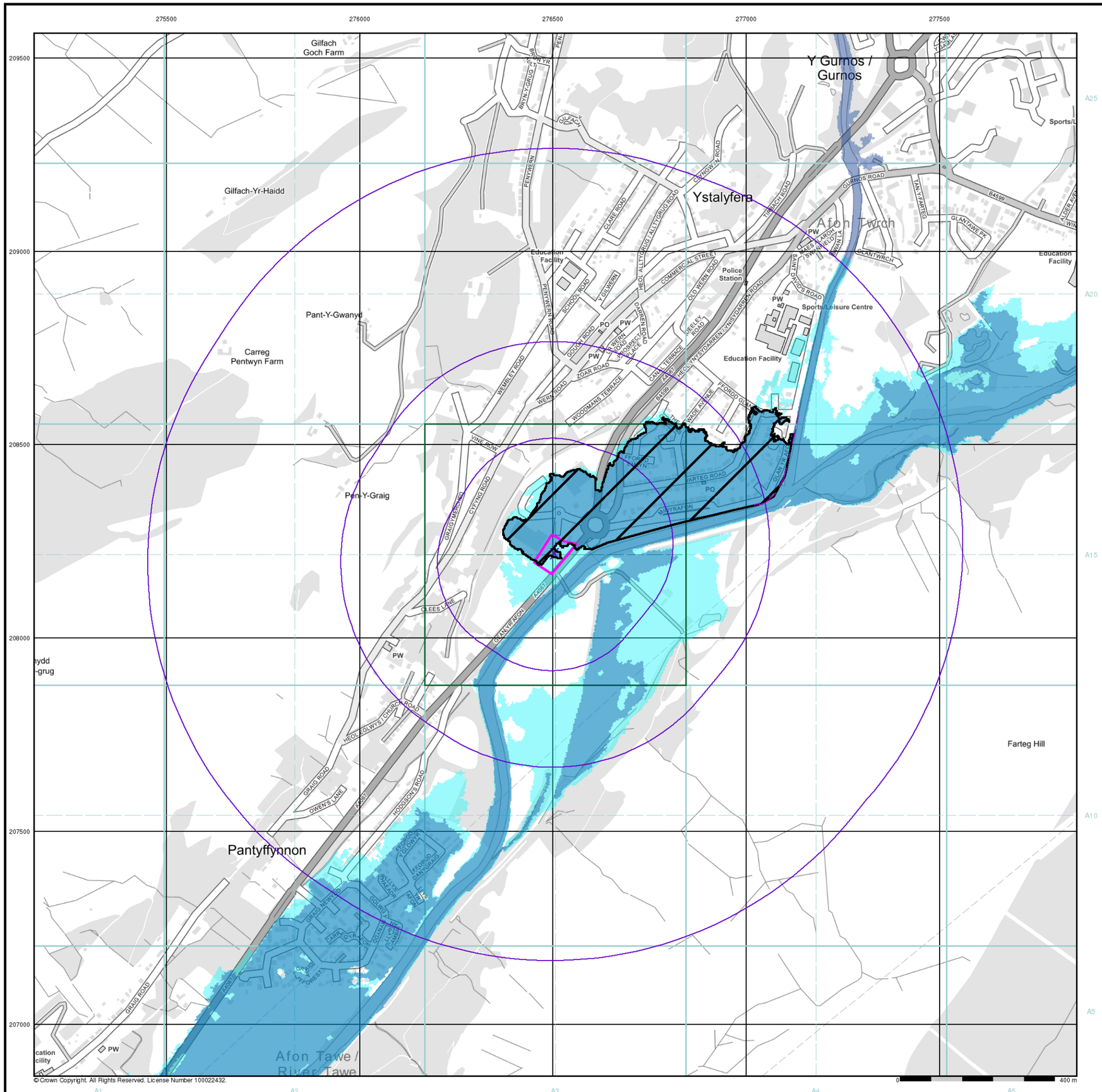

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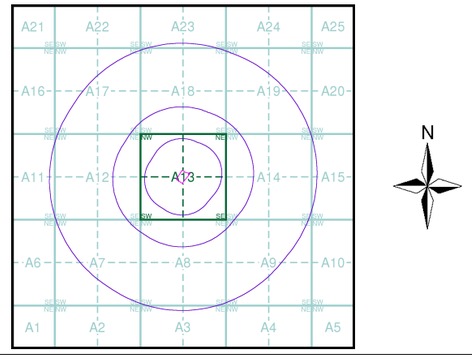
General

- 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



Order Details

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National Grid Reference:	276500, 208220
Slice:	A
Site Area (Ha):	0.55
Search Buffer (m):	1000

Site Details

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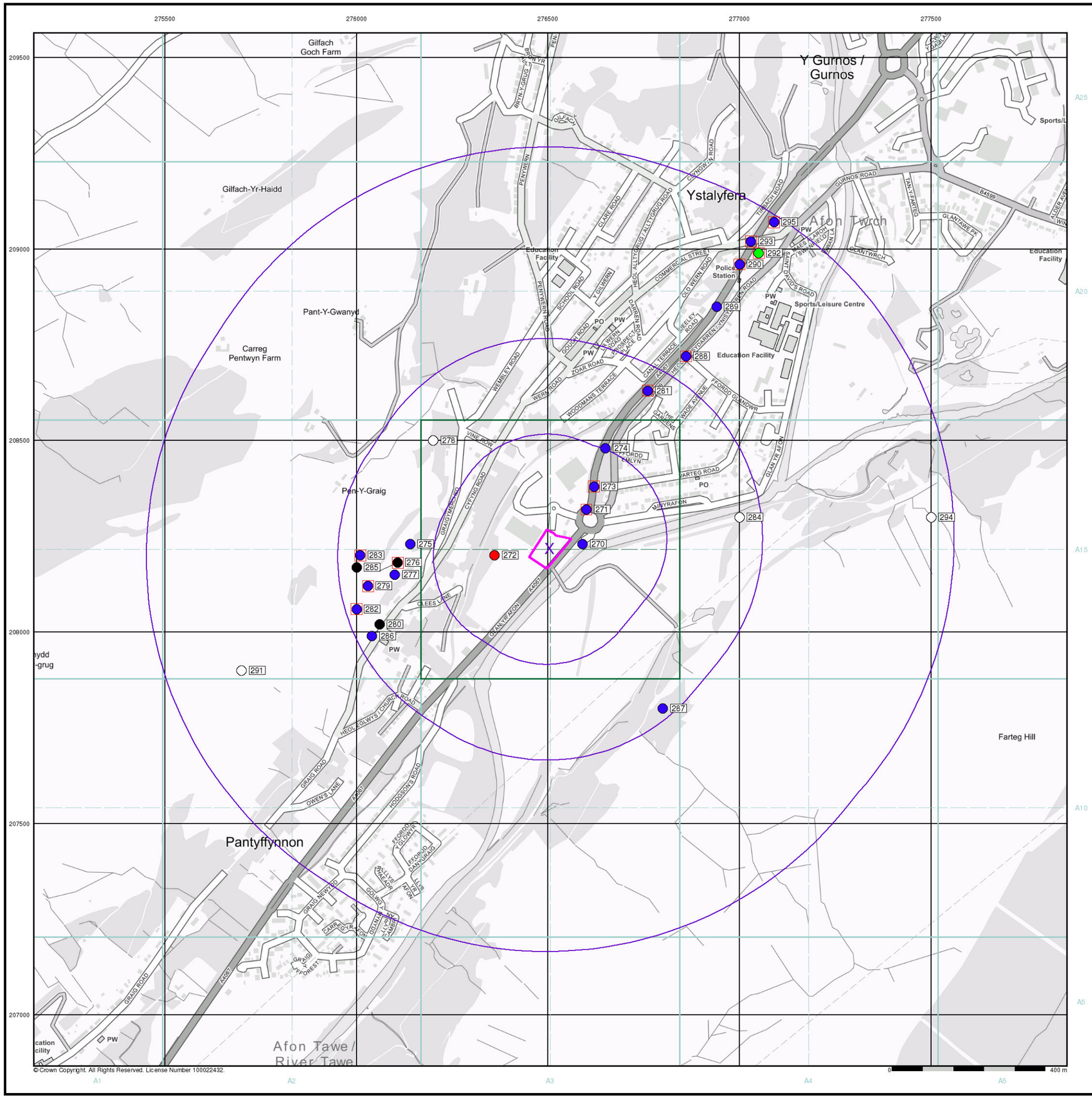

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General

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

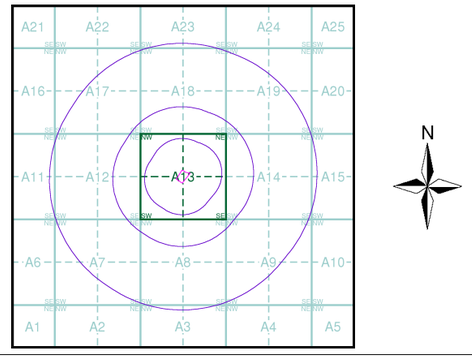
Agency and Hydrological (Boreholes)

- 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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Search Buffer (m):	1000

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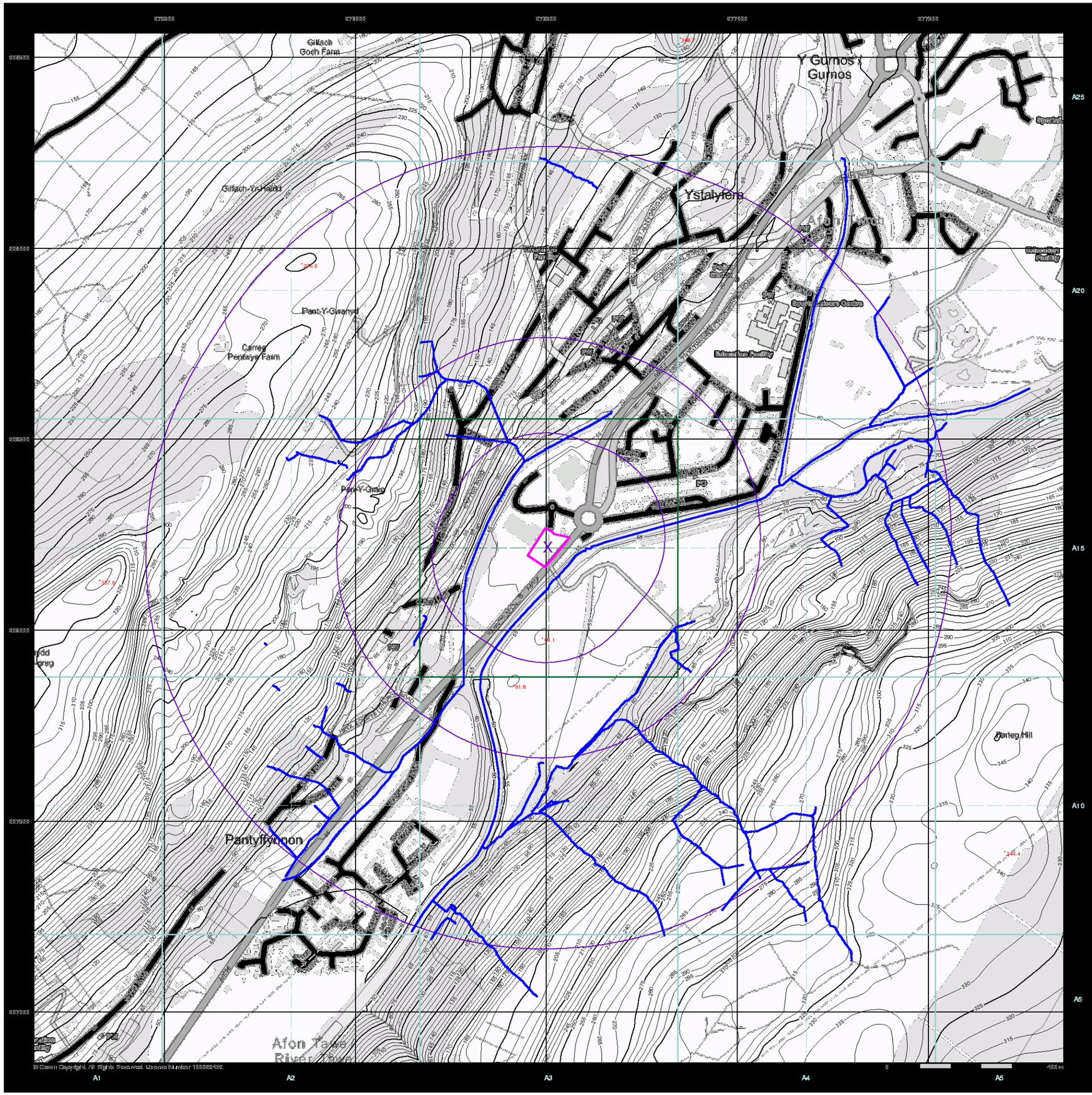

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General

- 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)

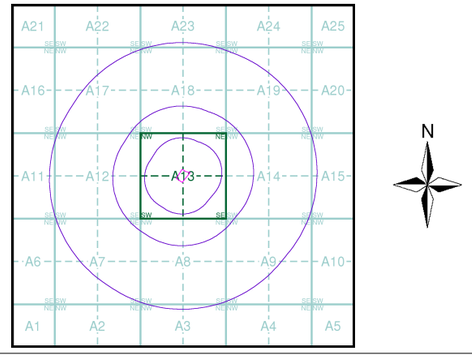
Standard Contour 105 100 95

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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National Grid Reference:	276500, 208220
Slice:	A
Site Area (Ha):	0.55
Search Buffer (m):	1000

Site Details

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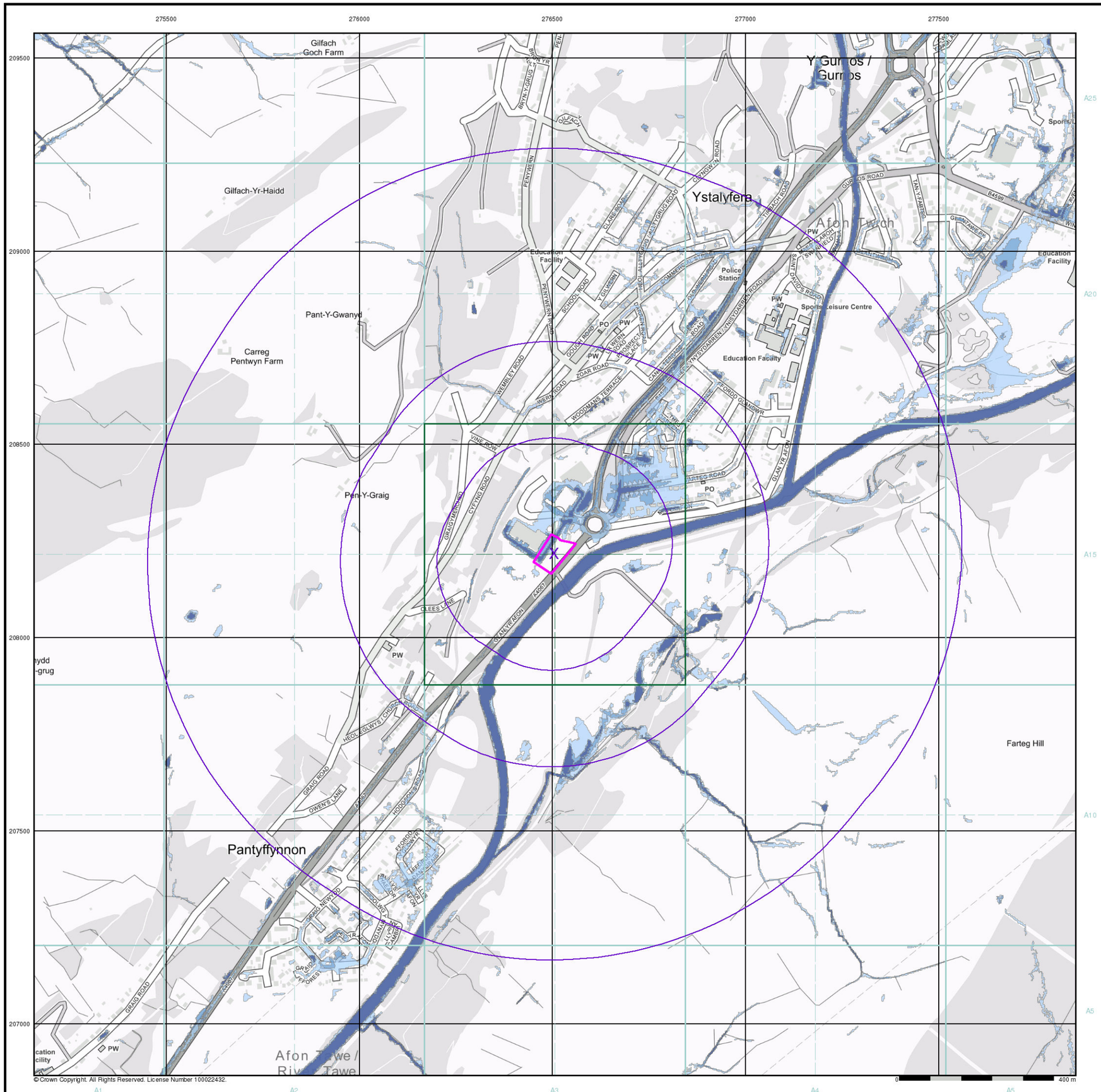

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General

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

Risk of Flooding from Surface Water

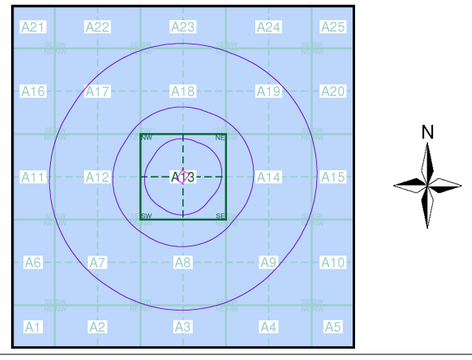
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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



Order Details

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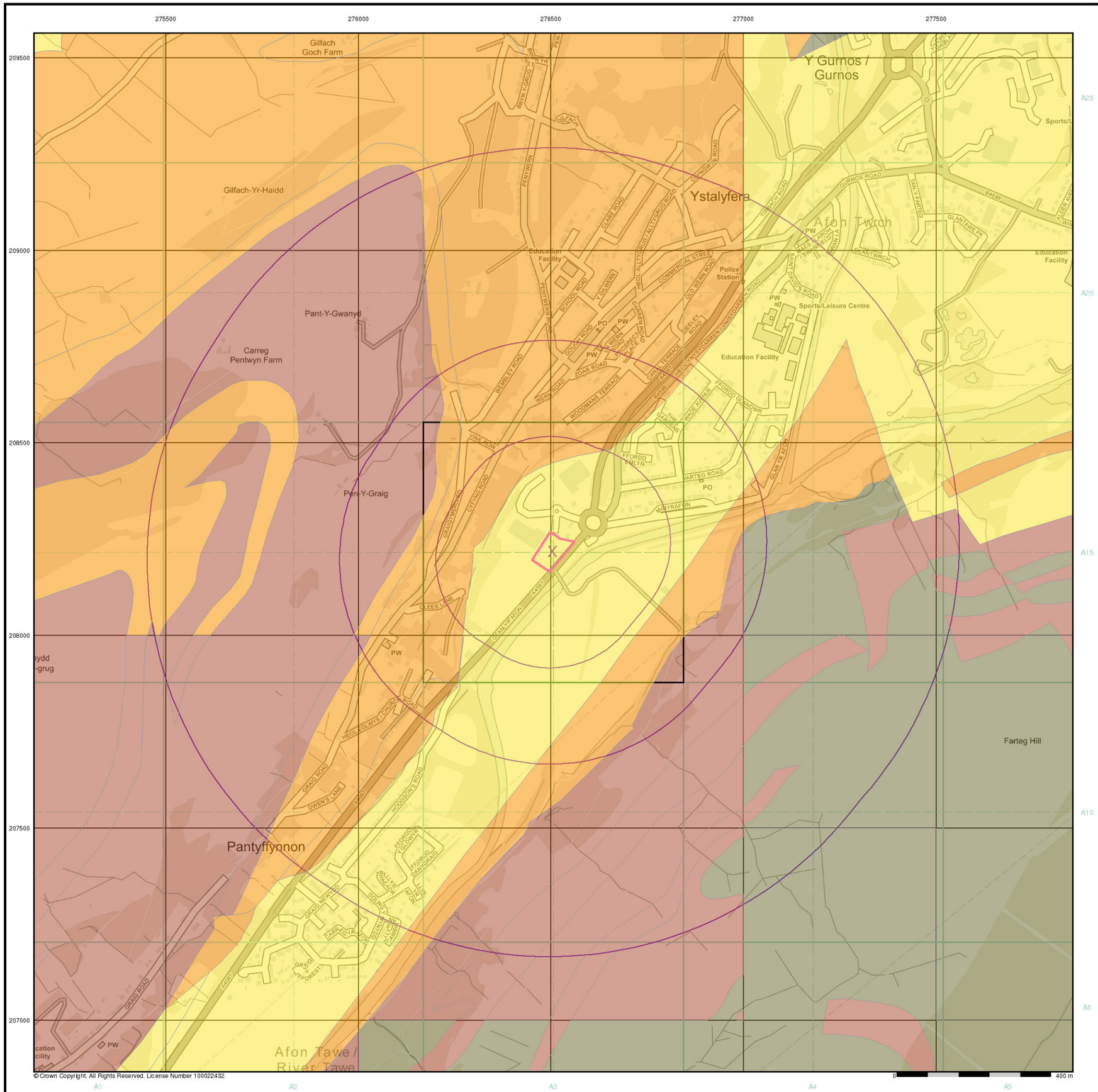

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General

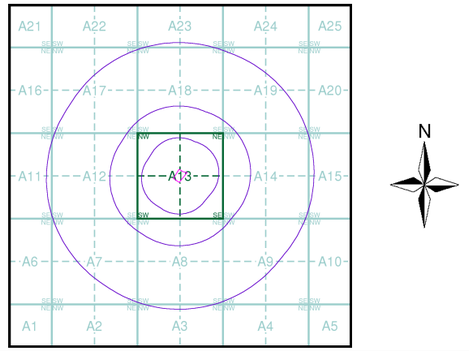
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



Order Details

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National Grid Reference:	276500, 208220
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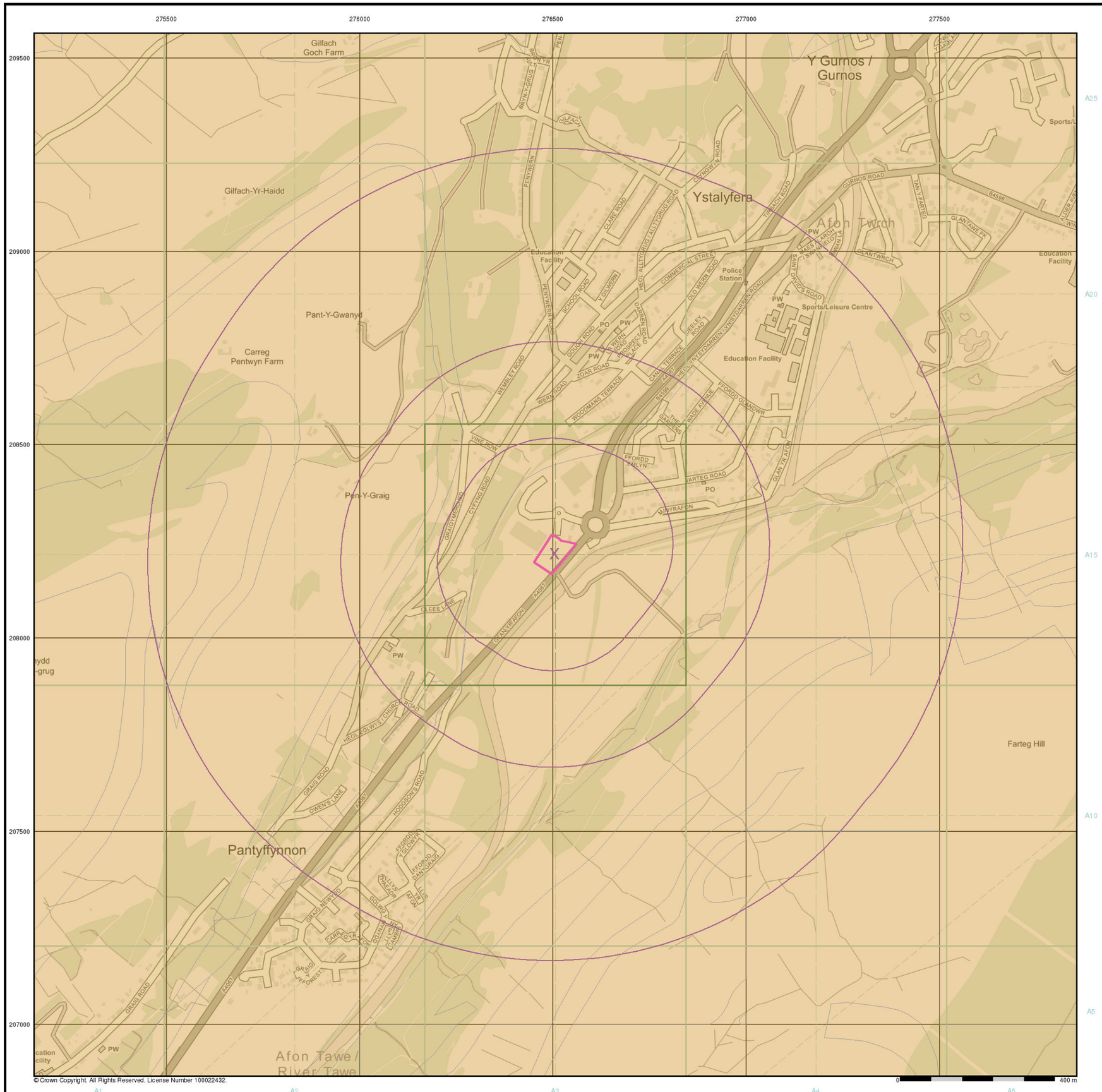

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General

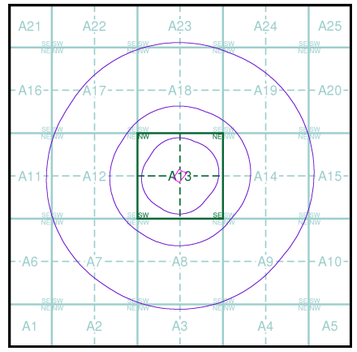
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



Order Details

Order Details:	243530586_1_1
Customer Ref:	16035 - Ystalyfera
National Grid Reference:	276500, 208220
Slice:	A
Site Area (Ha):	0.55
Search Buffer (m):	1000

Site Details

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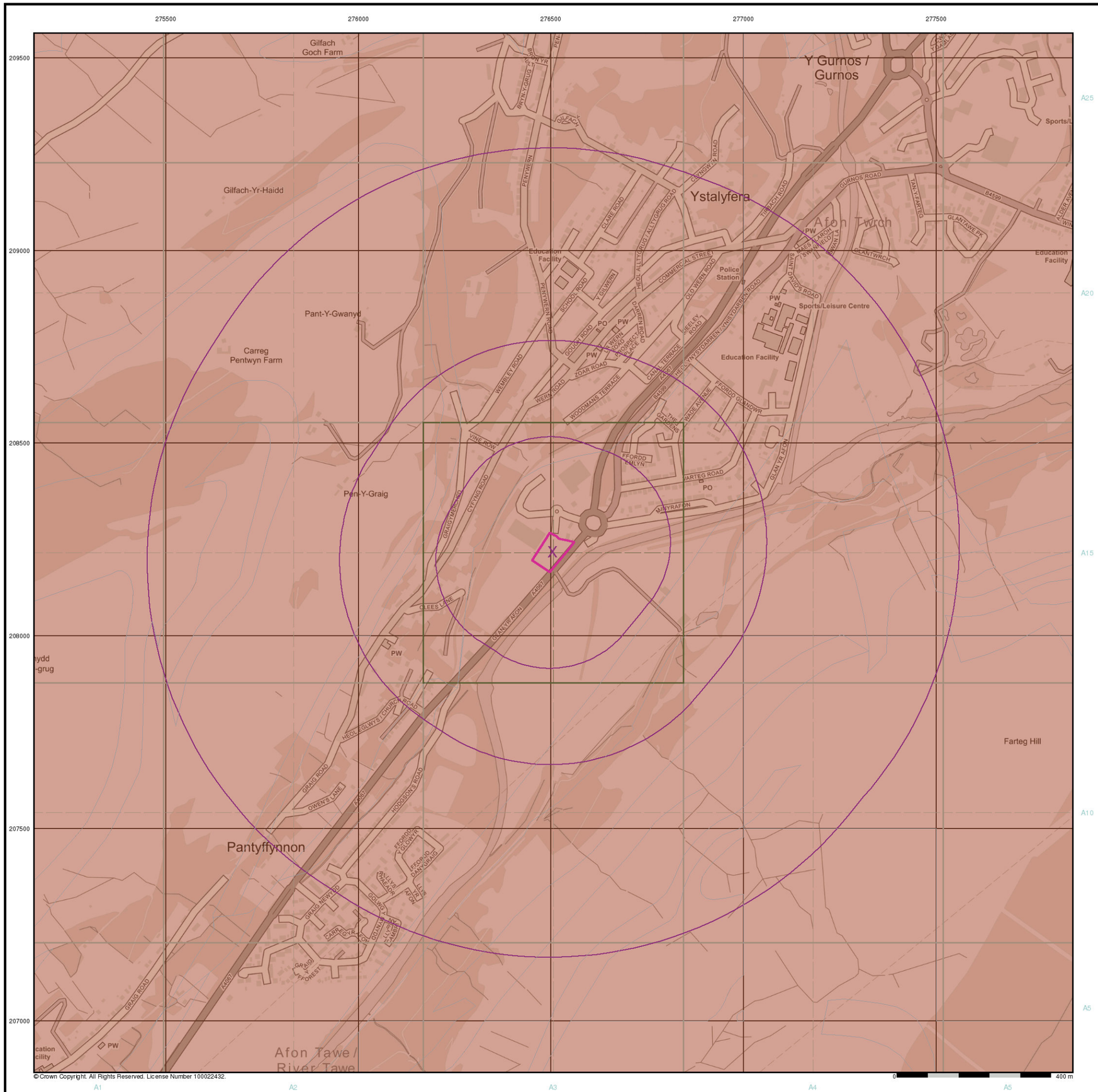

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General

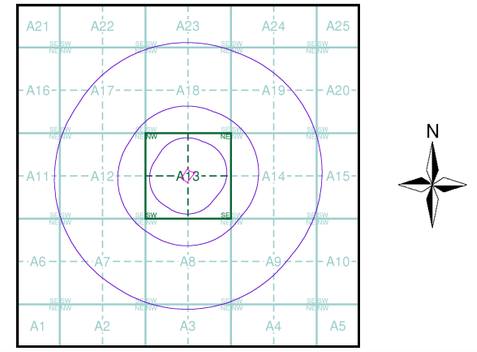
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



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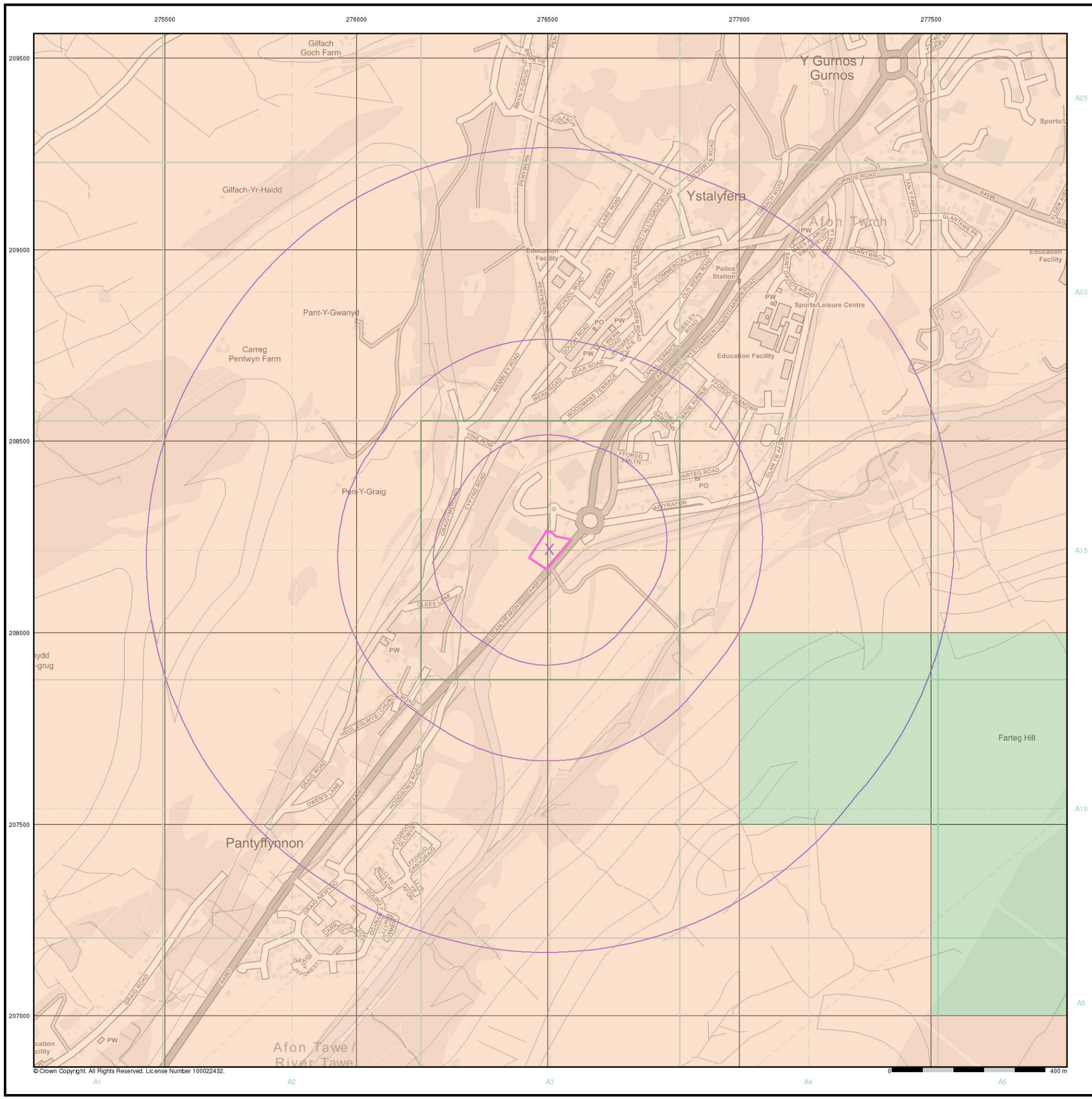

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General

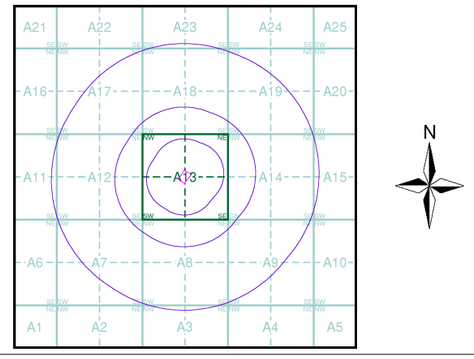
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



Order Details

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National Grid Reference:	276500, 208220
Slice:	A
Site Area (Ha):	0.55
Search Buffer (m):	1000

Site Details

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General

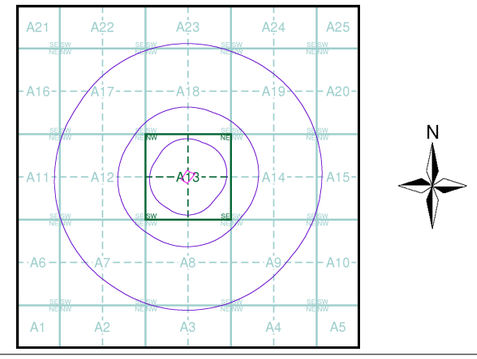
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



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ANNEX D
Risk Assessment Definitions

Risk Assessment Definitions

Environmental risk assessment evaluates the risk to receptors via an analysis of the 'source-pathway-receptor' linkage.

(1) A **CONTAMINANT** (hazard) - a substance that is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters

(2) A **RECEPTOR** (target) - something which could be adversely affected by a contaminant

(3) A **PATHWAY** - a route or means which either allows the contaminant to cause significant harm to that receptor, or that there is a significant possibility of such harm being caused to the receptor, or that pollution of controlled waters is being or likely to be caused.

The term 'Risk' is widely used in different contexts and situations, but a prescriptive definition is given by the Guidelines for Environmental Risk Assessment and Management (DEFRA *et al*, 2000):

'Risk is a combination of the probability, or frequency, of occurrence of a defined hazard and the magnitude of the consequences of the occurrence'.

A 'Hazard' is defined as '*a property or situation that in particular circumstances could lead to harm'.*

The classification of consequences and probability and determining the risk category are defined in the following sections.

Table 1 Classification of Consequence

Classification	Definition
Severe	• Short term (acute) risk to human health likely to result in significant harm • Short term risk to controlled waters • Catastrophic damage to buildings/structures • Short term risk to an ecosystem or organism within the particular ecosystem
Medium	• Chronic damage to human health (long term risk) • Pollution of a sensitive water resource • A significant change in an ecosystem or organism within the ecosystem
Mild	• Pollution of non-sensitive water resources • Significant damage to buildings/structures
Negligible	• Harm (not necessarily significant) which may result in financial loss • Non permanent health effects to humans (easily prevented by PPE for example) • Easily repairable effects of structural (building) damage

Table 2 Classification of Probability	
Classification	**Definition**
High	• There is a complete pollution linkage and an event appears very likely to occur in the short term and is inevitable in the long term. • Evidence of harm to the receptor
Medium	• There is a complete pollution linkage which means that is it probable that an event will occur • The event is not inevitable but possible in short term and likely in the long term
Low	• There is a complete pollution linkage and circumstances are possible under which an event could occur • It is not certain that an event will occur in the long term, and it is less likely to occur in the short term
Negligible	• There is a complete pollution linkage but circumstances are such that it is improbable that an event would occur even in the long term

By comparing the consequences of a risk and the probability of the risk of a pollution linkage, the likely risk category can be determined as shown in **Table 3** below.

Table 3 Risk Assessment Matrix					
Increasing acceptability →		**Consequence**			
		Severe	**Medium**	**Mild**	**Negligible**
Probability	**High**	High	High	Medium / Low	Near zero
	Medium	High	Medium	Low	Near zero
	Low	High / medium	Medium / Low	Low	Near zero
	Negligible	High / medium / Low	Medium / Low	Low	Near zero

High Risk
There is a high probability that severe harm could risk a receptor, or there is evidence that a receptor is being harmed. The risk if realised is likely to result in liability, and urgent investigation or remediation will be required.

Medium Risk
It is probable that harm will arise to a receptor. However it is relatively unlikely that such harm would be severe, or if harm does occur the harm is likely to be relatively mild. Investigation will be required to determine the liability, and some remedial works may be required in the long term.

Low Risk
It is possible that harm may arise to a receptor, but it is likely that the harm would be mild.

Near Zero Risk
There is a very low risk of harm to the receptor. In the event of harm being realised the harm is very mild.

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