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Geo-environmental Desk Study River Kenson

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This report describes work commissioned by Natural Resources Wales (NRW), by an instruction dated 06/01/2025 The Client's representative for the contract was Serena Ashdown of Natural Resources Wales (NRW). Rowan Barker, Louise Richards carried out this work.

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Executive Summary

JBA Consulting (JBA) was commissioned by Natural Resources Wales (NRW) to undertake a desk-based geo-environmental assessment to assess the potential contamination risks in the river corridor and adjacent riparian land associated with river restoration works on a reach of the River Kenson, Barry, Wales.

This preliminary risk assessment is carried out based on the review of the current environmental setting, historical mapping and the regulatory and environmental data concerning the site and surrounding area. The approach follows the land contamination risk management (LCRM) framework[1] and this report constitute the first tier in the risk assessment (Stage 1).

Based upon the findings of this desk study, the preliminary risk assessment, pollutant linkages with the potential to cause harm to surface waters and moderate potential for Ground Stability Hazards have been identified. The highest risk of contaminations arises form agricultural runoff, and the upstream discharges. These are likely to affect sediments and water quality in the River Kenson, with particular risk from the Cardiff Airport, given notable pollution incidents in the past. There are also moderate risks associated with Made Ground within the site associated with footpaths and pylons; and historical quarries, tips, and landfills within 1km of the site.

Site investigation is recommended to determine the sequence, thickness and composition of material beneath the site and undertaken in-situ and laboratory sampling to assess the geotechnical parameters and undertake quantitative geoenvironmental risk assessment.

1 https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm

1 Introduction

1.1 Background

JBA Consulting (JBA) have been commissioned by Natural Resources Wales (NRW) to undertake a desk-based geo-environmental assessment comprising of an environmental data review and mapping research (historical, geological, and hydrogeological) to assess the potential contamination issues in the river corridor and adjacent riparian land where river restoration works may take place.

The project follows on from a feasibility report completed by JBA in 2023. NRW have approached JBA to progress the project to a detailed design. The design is likely to include the following modifications to a reach of the river Kenson:

- Reconnecting palaeochannels
- Creating backwater areas in the current channel
- Re-profiling and re-grading sections of riverbank
- Removing sections of embankment along the riverbank
- Installing in-channel features, such as woody material

The restoration will improve the resilience of habitats and increase biodiversity, as well as potentially reduce the local risk of flooding. The restoration works will also improve water quality by reducing the amount of sediment entering the watercourses. Improving riparian buffer strip integrity will also help protect the banks from erosion. These gains will all contribute towards the River Kenson improving its WFD status (potential) under the Water Framework Directive.

This desk-based assessment aims to assess any geotechnical and geo-environmental risks associated with the proposed works.

1.2 Aim and scope of the study

The purpose of this desk study report is to undertake a preliminary risk assessment of the ground conditions across the site investigating the likely presence and extent of any potential environmental contamination-related risks associated with the proposed scheme. The approach follows the land contamination risk management (LCRM) framework, and this report constitute the first tier in the risk assessment (Stage 1).

To complete this preliminary risk assessment, the report provides:

- A definition of the overall site objectives,
- A review of available information with a desk study and a site walkover, and;
- The development of an initial conceptual site model identifying potential contaminant linkages through a source – pathway – receptor approach.

This is achieved through:

- a review of British Geological Survey (BGS) records for anticipated underlying ground conditions

- a review of the current environmental setting, establishing any potential environmental pathways and receptors,
- an assessment of potential contamination sources through analysis of environmental regulatory data and historical land uses; and,
- a qualitative Preliminary Risk Assessment (PRA) based upon current UK guidance (applicable to Wales): Land Contamination Risk Management (LCRM) (Environment Agency (EA) 2020[2]).

Conclusions and recommendations are provided based on the results of this preliminary desk-based assessment.

It should be noted that ecological assessment is excluded from this report and no specific geo-environmental site walkover visit has been undertaken at this stage. Despite this, a site visits took place on 19 November 2024 and the 23 January 2025 by JBA hydrogeomorphology and ecology specialists. They took photos and were following a brief from geo-environmental specialists to report back any contaminated land issues identified onsite. This assessment also excludes the assessment of above-ground infrastructure at the site for the potential presence of Asbestos-containing materials (ACM), or the presence of potentially invasive plant species.

1.3 Data sources

The data used in the desk study were obtained from the following sources:

- Topography and general mapping:
  - OS Open Data, Terrain 50 DTM, Light detection and ranging (LiDAR) 1/2m Digital Terrain Model (DTM) (EA Open Data); and,
  - Aerial photography (Google Earth and Bing Maps).
- Geology and Soils:
  - BGS 1:50,000 geology mapping;
  - BGS digital geology mapping;
  - BGS online borehole database (BGS website);
  - BGS online Lexicon (BGS website);
  - 1:250,000 soils mapping (Soil Survey of England and Wales, 1983);
  - Soil Landscapes Online Viewer (DEFRA, 2022);
  - DEFRA's Magic Map, The National Soil Resources Institute (NSRI); and,
  - Coal Authority online viewer.
- Hydrogeology:
  - Aquifer classification (Envirocheck Report);
  - Groundwater vulnerability (Envirocheck Report);
  - Source Protection Zones (Envirocheck Report);

2 https://www.gov.uk/guidance/land-contamination-how-to-manage-the-risks/stage-1-risk-assessment

    - Flood Risk Viewer (http://lle.gov.wales/catalogue/item/NationalFloodRiskMaps/?lang=en); and,
    - BGS 1:625000 Hydrogeology Mapping of Wales.
- Environmental records and historical mapping (Landmark Envirocheck Report, 2022 - Appendix A).
- DoE Industry Profiles (1995 archived, CL:AIRE)

2 Site Introduction and Environmental Setting

2.1 Introduction

The section presents a summary of the environmental setting of the site and local area, including aspects such as site history, hydrology, geology, and ecology. This analysis enables the identification of vulnerable receptors (such as productive aquifers, sites of ecological importance, etc.) and potential pathways (such as migration through the surface and sub-surface water flow).

2.2 Site area and location

The site is situated on a stretch of the River Kenson between Kenson Hill (NE) to the location where the Kenson River passes under the B4265.

The river flows southwest through grassland and riparian habitats until its confluence with the River Thaw 500m southwest of the site boundary (red line). The area of interest is a 2.3km long reach from Kenson Hill 250m north of Kenson to the B4265 2km to the west of Kenson and is centralised on national grid reference NGR ST 04343 68371. The study area is irregular in shape and occupies an area of approximately 33 hectares. The site location is provided in Figure 2-1. The red line boundary is shown in Figure 2-2, and totals 3.94ha.

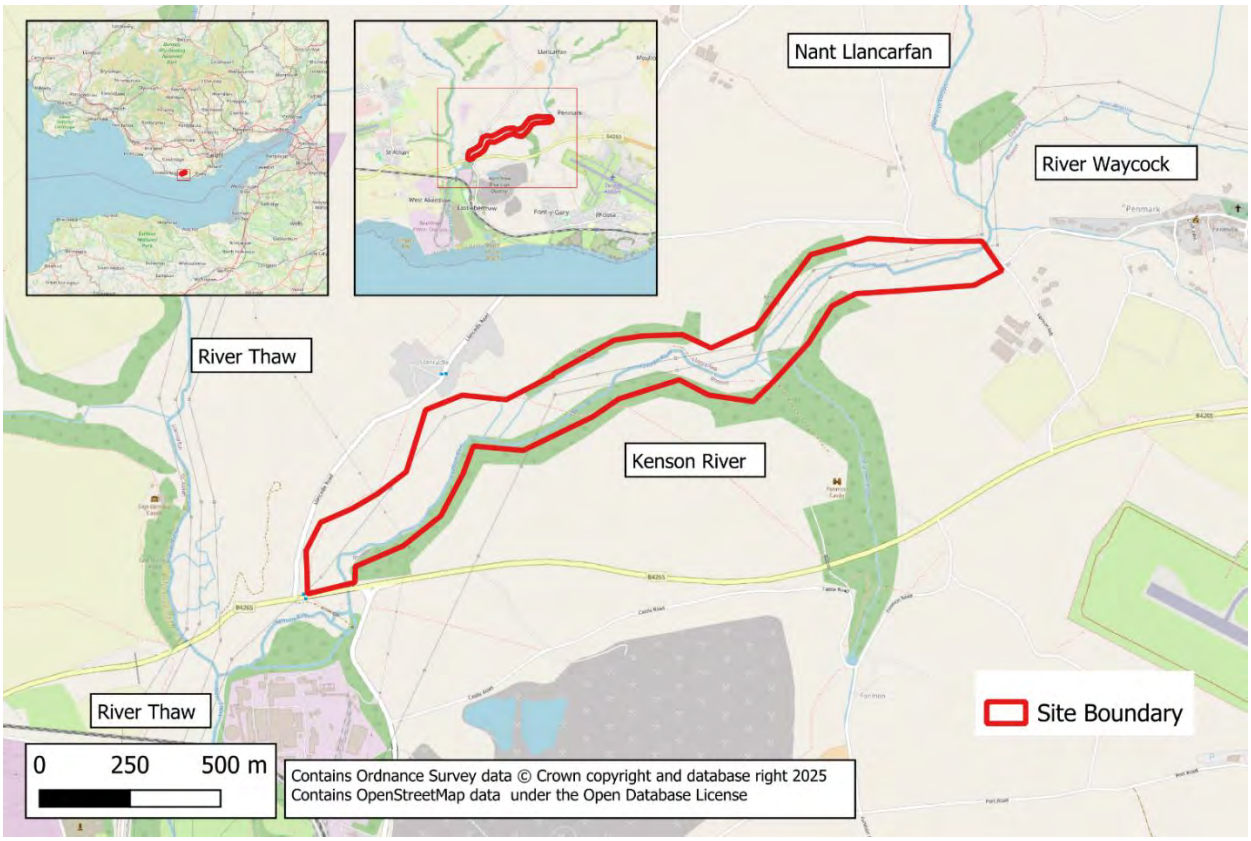

Figure 2-1: Site location

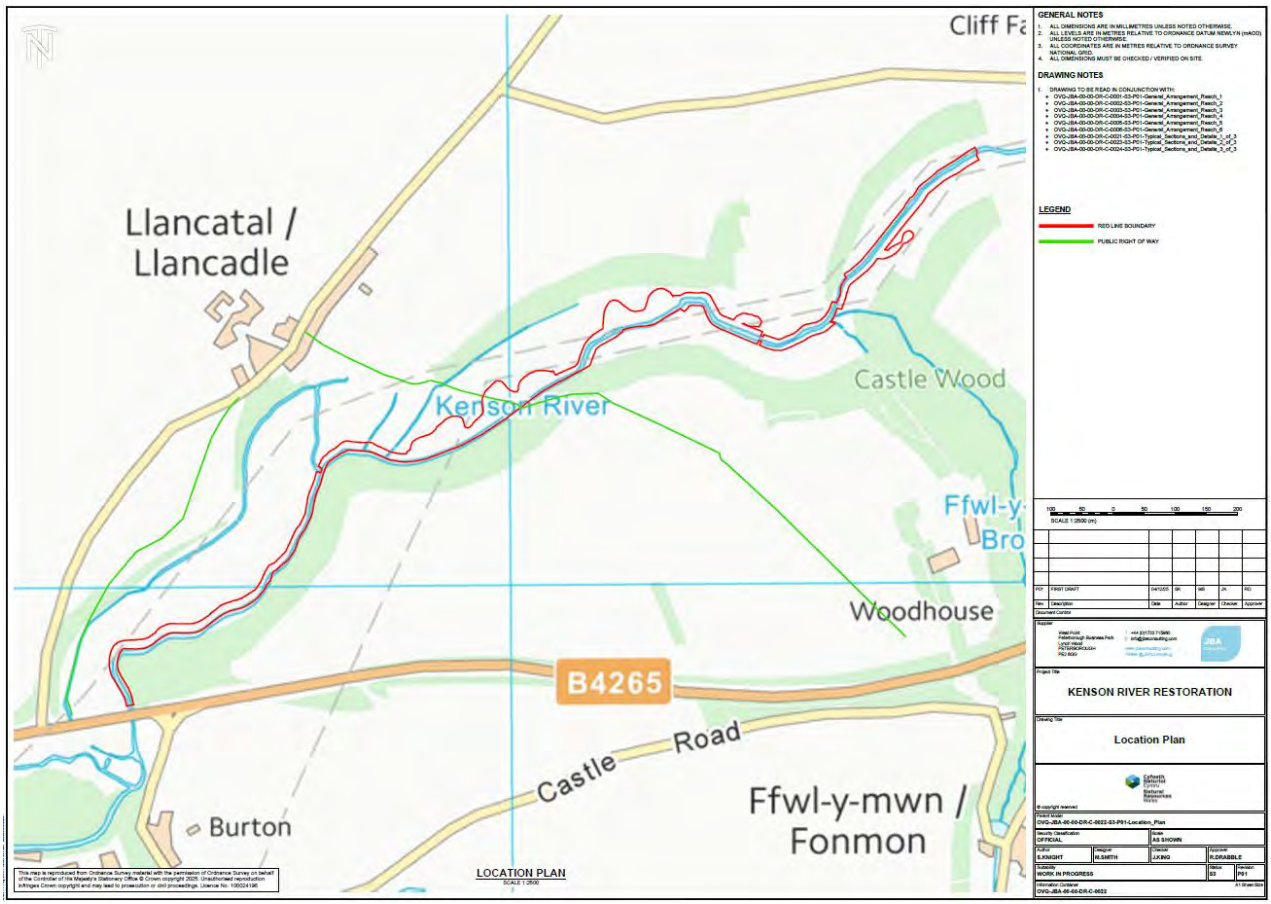

Figure 2-2: Red line boundary for the site

2.3 Topography

Figure 2-3 presents the EA 2023 LiDAR DTM topography of the site, with the majority of the site falling south-west within the valley floor along the River Kenson with ranges in elevation between 10 mAOD in the far east of the site to 5.5 mAOD in the southwest of the site, further downstream. In the wider area, ground levels dip south toward the sea.

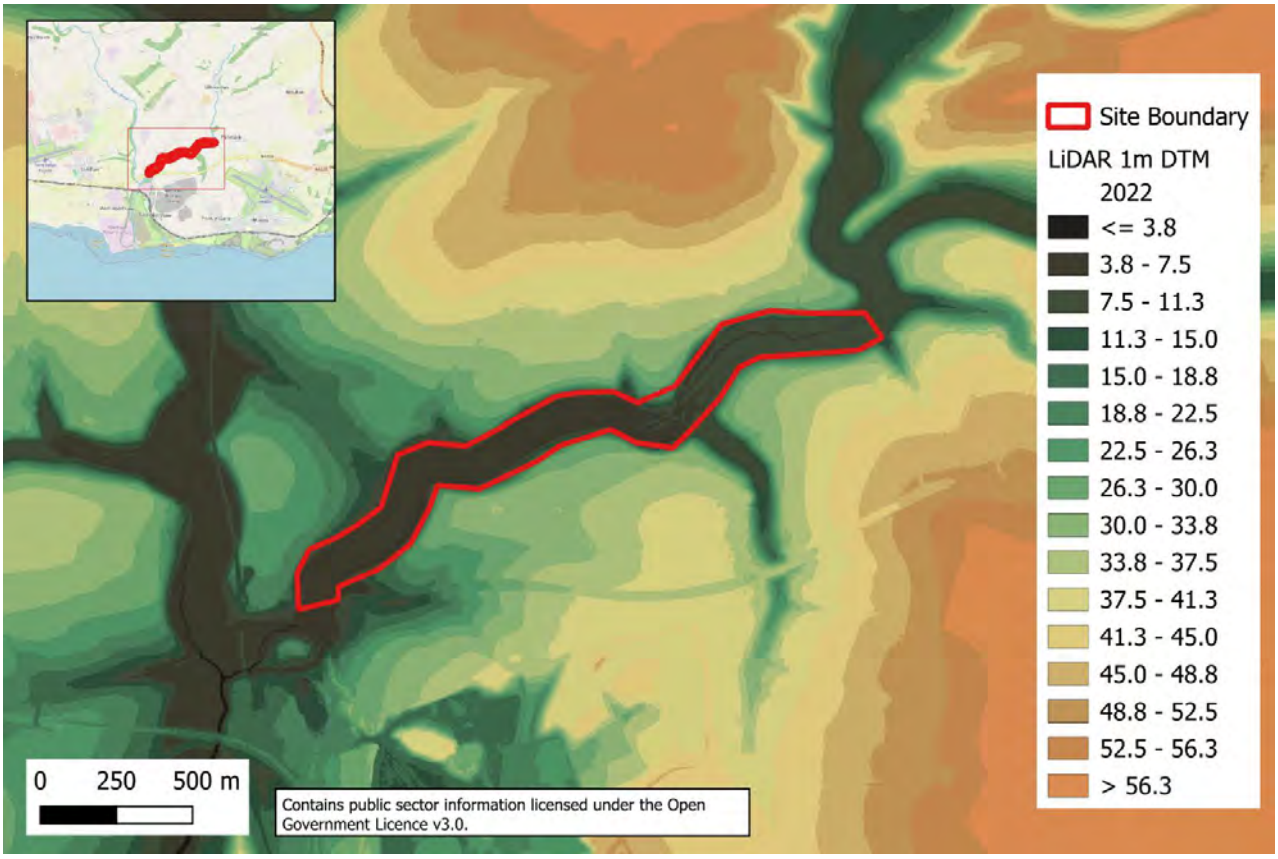

Figure 2-3: Topography

2.4 Current land use

The proposed site of the river restoration scheme is within the grounds of Fonmon Castle.

The River Kenson valley meadows are mainly unenclosed and used for cattle grazing[3]. The valley sides contain ancient woodland.

The southern riverbank is mostly covered by riparian woodland, as shown in Figure 2-4. Many of these are classified as Ancient Woodland, which will be sensitive to changes. The northern riverbank consists of numerous cut drains, and "open" green space along the river's corridor, with patches of woodland. The wider surrounding area is mostly arable and pastural farmland with small villages and towns. South of the reach approaches larger settlements, Aberthaw Quarry and the N-Power power station on the coast.

[3] Llancarfan HLCA003 https://www.ggat.org.uk/cadw/historic_landscape/llancarfan/english/llancarfan_003.htm

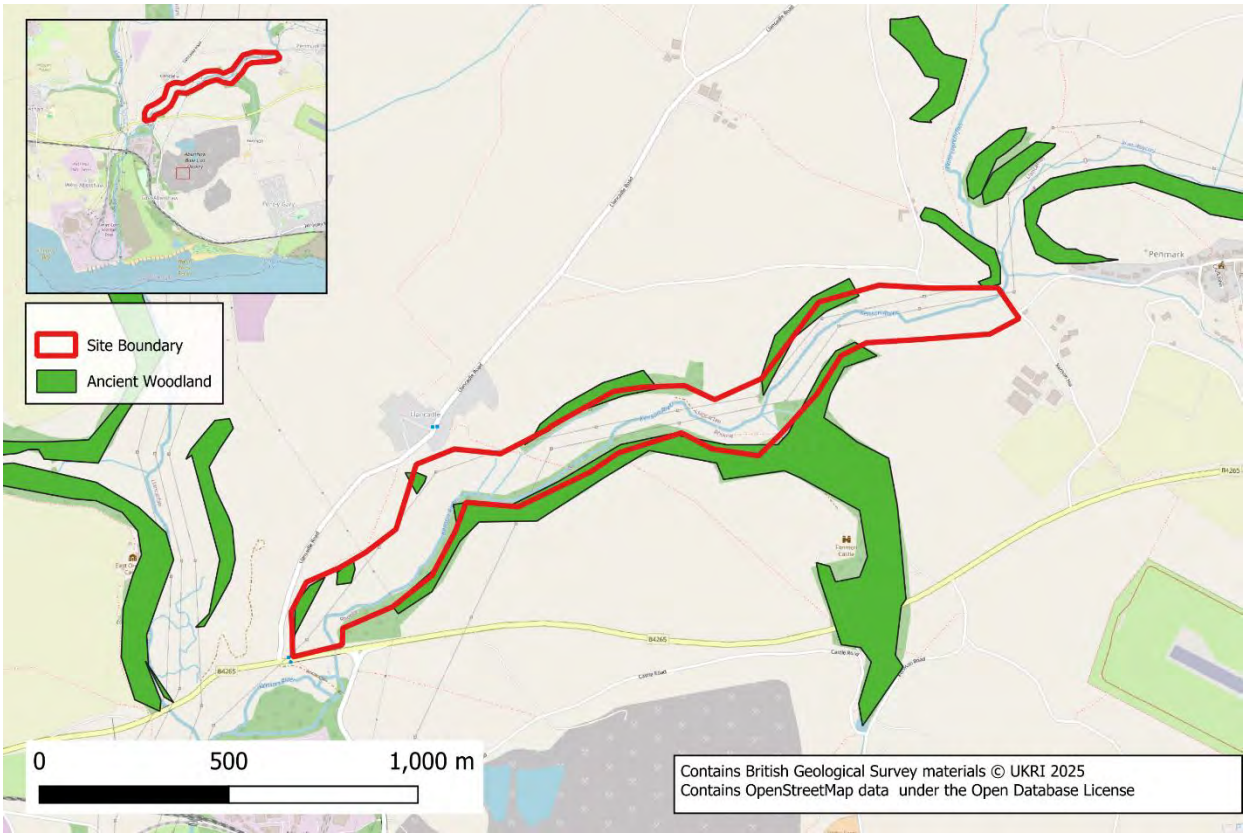

Figure 2-4: Location of ancient woodland near to the site

2.5 Surface water hydrology

2.5.1 Major Waterways

The Kenson is a 2.6km long meandering river located in an alluvium filled fluvial valley. It is fed by the Nant Llancarfan and River Waycock which converge immediately before the upstream edge of the site. It becomes a tributary of the River Thaw 300m downstream from the site boundary. Sections of the river have been modified and straightened throughout the site boundary.

Error! Reference source not found. shows the main water courses in the area with the River Kenson and the River Thaw. An assessment of surface water bodies for ecological and chemical quality is maintained by NRW under the Water Framework Directive (WFD) and is viewable through their online Catchment Data Explorer and is summarised below:

"The Kenson Confluence with the Waycock to confluence with the Thaw, which includes the section of the River Kenson, has a 'High' chemical status, 'Moderate' ecological status and 'Moderate' overall status," under the Water Framework Directive's 2021 classifications.

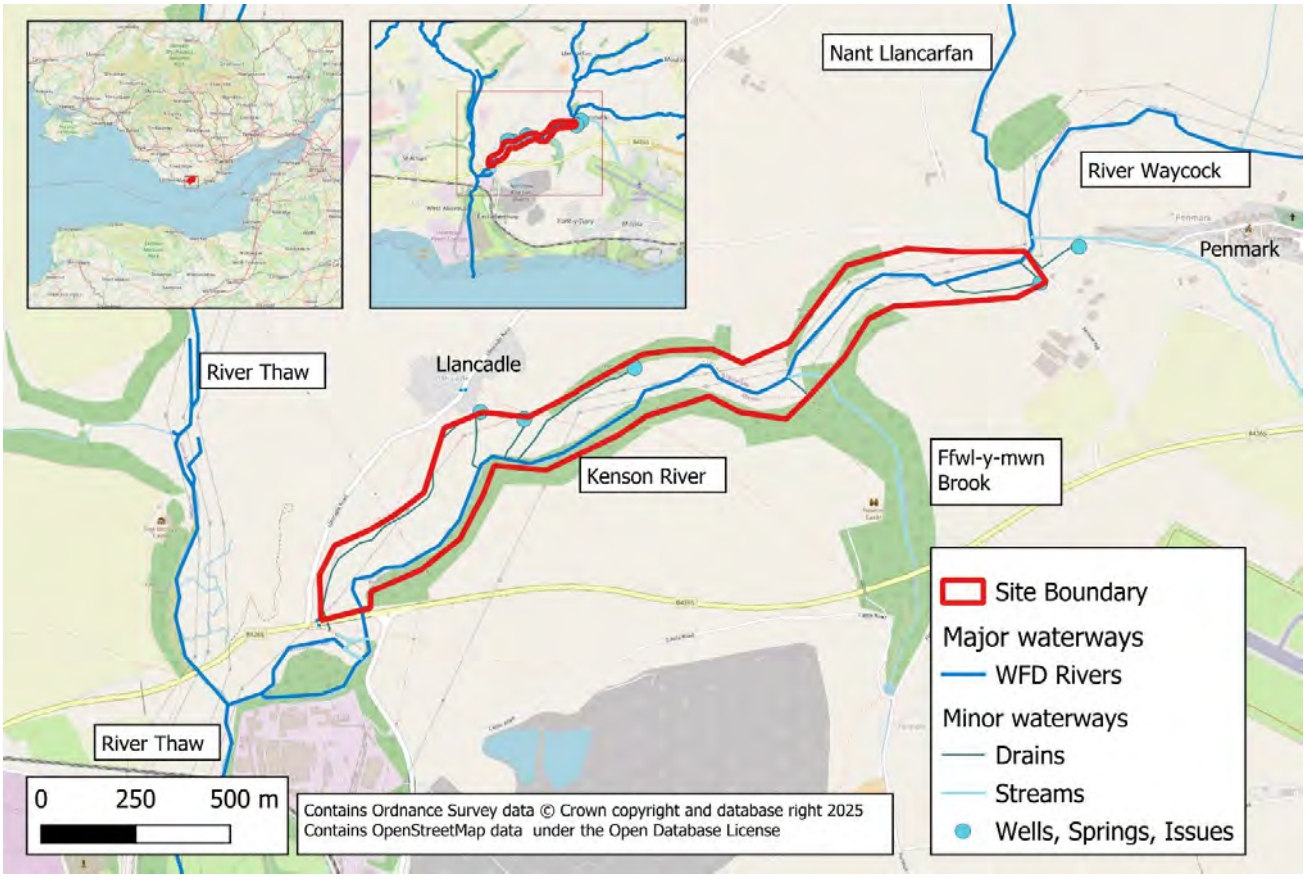

Figure 2-5: Surface water hydrology

2.5.2 Drains and backwater

Within the southwestern part of the site, a swale arises from a spring near to Llancadle and runs parallel to the Kenson for 900m along the northern valley edge, as shown in Figure 2-5. This appears to have been established before 1885 and follows the same course identified in historic OS mapping. The lower 200m are notably more engineered, forming a straightened 1m deep drain that is 4m wide. Six more drains have been cut across the valley floor, linking the valley sides with the Kenson, increasing drainage of the valley meadow. In satellite imagery, these appear as sunken swales and are likely dry outside of wet periods.

The Ffwl-y-mwn Brook joins the Kenson from the south, over half way up the site, and also maintains its 1885 course, flowing past Fonmon castle and through ancient woodland.

2.5.3 Water abstractions

No surface water or groundwater abstractions are present within the site boundary. Envirocheck Data identifies two surface water extraction within 1km of the site and one groundwater abstraction at 1km north of the site.

The surface water abstractions (both under permit number 21/58/21/0004) are both respectively located 50m and 250m south, downstream of the site boundary and are

recorded as direct abstraction from the River Kenson for the Aberthaw Cement Works operated by Tarmac Cement Limited.

The groundwater abstraction (permit number 21/58/21/0019) supplies Pancross and Walterston Farms and abstract the Thaw and Cadoxtan Jurassic Lias aquifer (GB41002G201400) alongside the Llancarfan (GB110058026410).

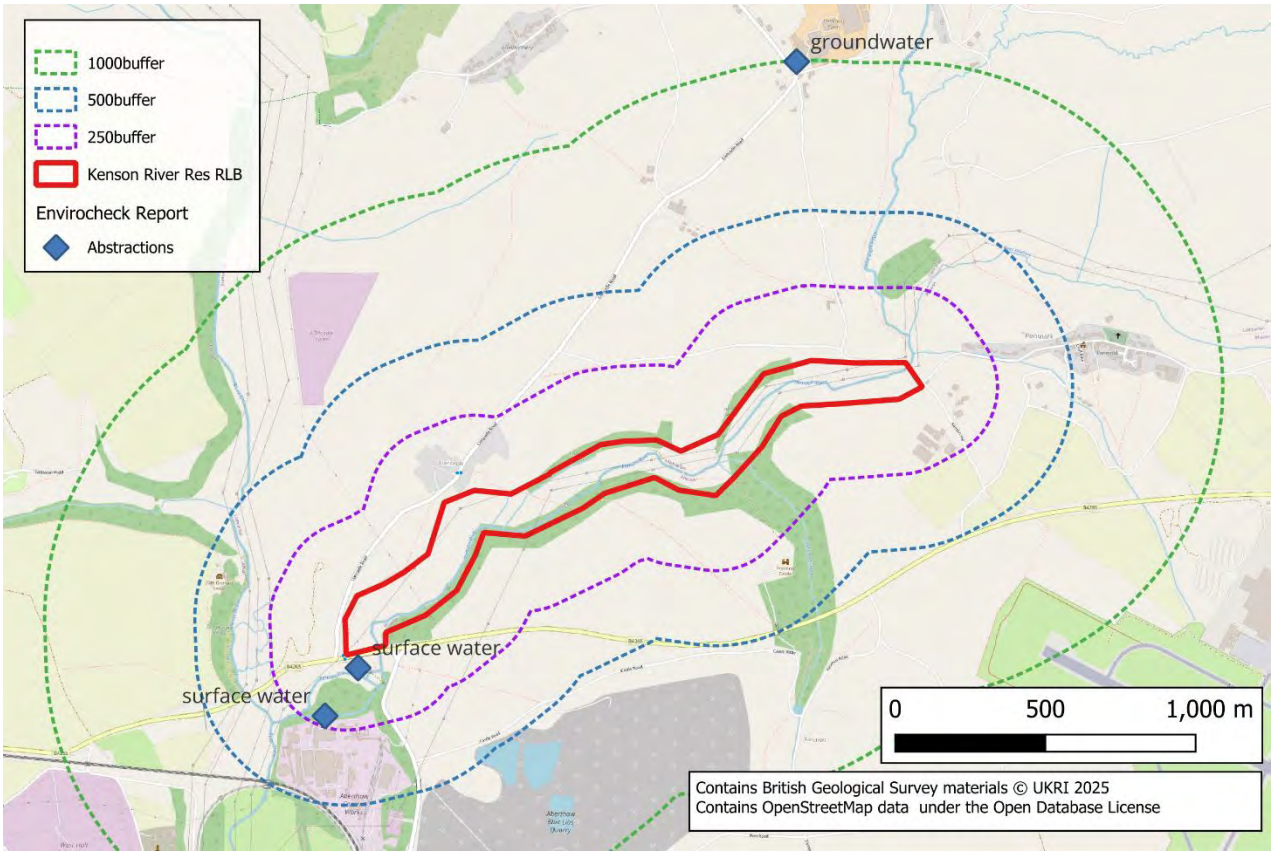

Figure 2-6: Abstractions points

2.5.4 Flood risk assessment

Table 2-1 summarises the flood risk on the site. This information has been compiled from Natural Resources Wales' Flood Risk Map Viewer[4], and Envirocheck data. Table 2-1 and Figure 2-7 shows that there is a high flood risk from the River Kenson. In some sections within the site, there is a medium to high risk of flooding from small watercourses.

Table 2-1: Flood risk

Source of Flooding	On-site Presence	Description
Fluvial	Yes	The site is at high risk from fluvial flooding, shown in **Error! Reference source not found.**.

4 Natural Resources Wales / Check your flood risk on a map (Flood Risk Assessment Wales Map)

Source of Flooding	On-site Presence	Description
Tidal	Yes	The site is at high risk from tidal flooding.
Surface Water and small watercourses	Yes	Medium to high risk from surface water and small watercourses flooding.
Reservoirs	No	The site is not at risk from reservoir flooding.
Groundwater	Yes	Low to High risk. Along the banks of river there are points identified with a potential for groundwater flooding for property situated below ground level.
Canals	No	The site is not at risk of flooding from a canal breach.

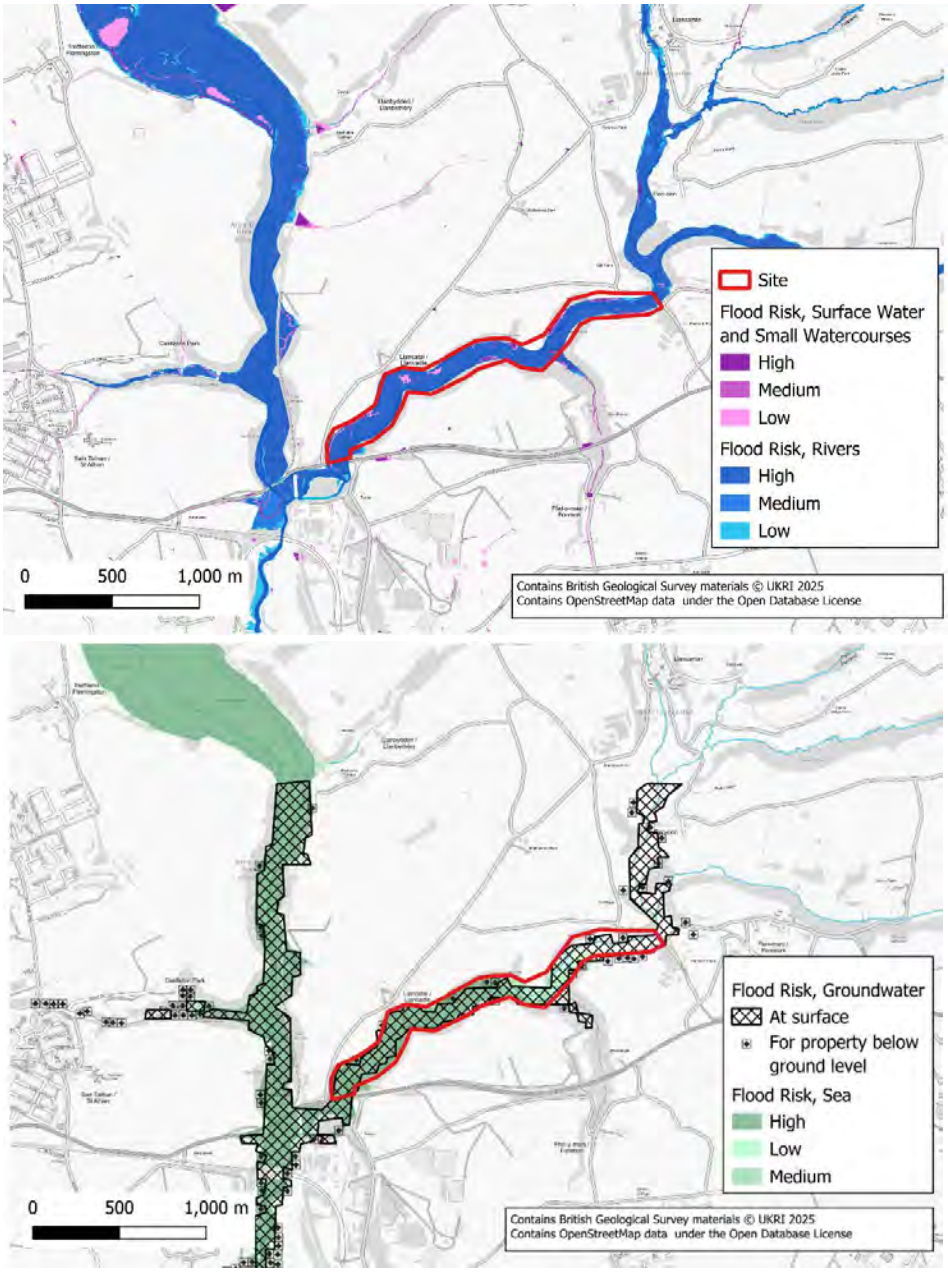

Figure 2-7: Flood risk map

2.6 Geology

2.6.1 Summary

Information on the superficial and solid geology of the site and the surrounding area has been reviewed from the Soil Survey of England and Wales (1970), 1:50,000 British Geological Survey geology mapping (BGS online map viewer), and the BGS online borehole archive (GeoIndex). The geology underlying the site is summarised in Table 2-2 and described in more details in sections 2.6.2 to 2.6.5

Table 2-2: Stratigraphy of lithologies underlying the site

Age	Formation/Group	Description	Thickness
Quaternary Period Superficial geology.	Topsoil	Freely draining but slightly acid but base rich soils (loamy in texture)*	Variable thickness
	Alluvium	Clay, silt, sand and gravel. It is the unconsolidated detrital material deposited by a river**	Variable thickness
	Head Deposits	poorly sorted and poorly stratified, angular rock debris and/or clayey hillwash. Clay, Silt, Sand and Gravel	Variable Thickness
Bedrock Hettangian Age	Porthkerry Formation	Interbedded Limestone and Mudstone**	Variable thickness
Sources: *Soil Landscapes Online Viewer **BGS Online Lexicon of Named Rock Units			

2.6.2 Soils

Soil classification by the Soil Landscapes Online Viewer (DEFRA, 2022) have classified the soils throughout the site as Freely draining, slightly acid but base rich soils (loamy in texture). The land cover is grassland and woodland with the main risks in these soils associated with nitrate contamination, siltation and nutrient enrichment of groundwater and streams from soil erosion of these soils given agricultural practices associated with the area.

2.6.3 Artificial ground

The BGS GeoIndex indicates that no made ground is recorded on-site or in the surrounding area. However, made ground or engineered backfill is anticipated in the immediate vicinity of the pylon structures associated with the overhead cables.

2.6.4 Superficial deposits

The BGS GeoIndex indicates that the superficial deposits across and the site and surrounding area comprise Alluvium deposits along the river's corridor. There is a small section of Head Deposits on the north bank underlying Kenson Wood.

The BGS Lexicon indicates that Alluvium deposits will comprise clay, silt, sand, and gravel. The alluvium is the unconsolidated detrital material deposited by a river, stream, or other body of running water as a sorted or semi-sorted sediment in the bed of the stream or on its floodplain or delta. It is normally soft, compressible silty clay, but can contain layers of silt,

sand, peat, and basal gravel. Head deposits are described as poorly sorted and poorly stratified, angular rock debris and/or clayey hillwash and soil creep, mantling a hillslope and deposited by solifluction and gelifluction processes. They are associated with past glacial process.

2.6.5 Bedrock geology

The BGS 1:50,000 geology mapping shows that the site is exclusively underlain by the Porthkerry member which consists of interbedded limestone and subordinate mudstone units. This is the upper limestone series of the Blue Lias succession. The Porthkerry Formation is underlain by the Lavernock Shales at depth.

2.7 BGS boreholes

The BGS GeoIndex was consulted to identify if any intrusive borehole information is available for the site. No borehole information is available on-site, but a series of boreholes present within 500m of the site associated with the construction of powerlines within the area. These records are marked as confidential and cannot be accessed freely online.

The nearest publicly available borehole considered to be representative of ground conditions on-site is located 400 m southwest of the southern boundary of the site. Details of anticipated ground conditions are provided in Table 2-3.

Table 2-3: BGS borehole record and anticipated ground model

BGS ID	Location	Depth (m)	Elevation (m AOD)	Ground Conditions
ST06NW79	400 m SW	8.20	6.23	0.00-0.20 Topsoil 0.20-7.00 soft silty CLAY (Alluvium) 7.00 - 8.20 strong fissured Limestone (Porthkerry Member) Groundwater was recorded at 2.30 m bgl (3.93 m AOD).

2.8 Coal and non-coal mining

The Coal Authority online viewer has been reviewed for the area. This site is not located within a coal mining reporting area.

Numerous historic quarries are located within the headwaters of the catchment. Further information is provided in section 3.3.

2.8.1 Metal mining

Using the Stream Sediment Geochemical Atlas of the United Kingdom, 2019. Lead instream sediments were sampled across the United Kingdom. Three GBASE stream sediment samples are located within the site: 3805054, 3805050, 3805039. The headwaters of catchment sit within an area of moderately high instream lead levels, with

average Lead concentrations of 78mg/kg. These are likely to be associated with historic lead mining in the region.

2.9 Hydrogeology

2.9.1 Aquifer designation

The Alluvium present across of the site is classified as a 'Secondary A Aquifer', which is described as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

The underlying bedrock units of Porthkerry Limestone Member is also classified as a Secondary A Aquifer, with groundwater flow within limestone bands separated by mudstones. Yields are reported as generally low, although a 122m borehole at Rhoose Cement Works yields 1200m3/d of good quality water, in the multilayered Blue Lias formation. Water at East Aberthaw from 234m has a hardness of 1172mg/l [5].Aquifer units are presented in

Table 2-4: Aquifer designations

Group	Formation	Classification
Superficial (drift) Deposits	Alluvium Deposits - sands, silts, gravel and clay.	Secondary A Aquifer
Bedrock	Porthkerry Member - Interbedded Limestone and Mudstone	Secondary A Aquifer
Explanation of aquifer classes (from the Environment Agency website: Protect groundwater and prevent groundwater pollution - GOV.UK Secondary A- "aquifers comprise permeable layers that can support local water supplies, and may form an important source of base flow to rivers"		

5 Geology of the South Wales Coalfield, Bridgend, sheet 261 and 262. Sheet memoir https://webapps.bgs.ac.uk/Memoirs/docs/B01835.html

2.9.2 Aquifer vulnerability and water quality

The BGS's aquifer vulnerability mapping marks both the superficial deposits and underlying bedrock lithologies are having high aquifer vulnerability, meaning they are of priority groundwater resources that have limited natural protection. This results in a high overall pollution risk to groundwater from surface activities.

2.9.3 Groundwater abstraction

No groundwater abstractions are present within the site boundary. Envirocheck Data and Data Map Wales[6] identifies one groundwater extraction within 1km of the site (Figure 2-6: Abstractions points). This is located art Pancross Farm 1.1 km north of the far eastern section site boundary and is recorded as a borehole abstraction operated by Pancross and Walterston Farms for general agricultural and domestic practices.

2.9.4 Groundwater source protection zones

Source Protection Zones (SPZs) are used to protect areas of vulnerable groundwater that are used for abstraction and where water quality is of high importance (such as drinking water abstractions). SPZs are categorised into three zones, 1-3, with 1 being of the highest risk of contamination, and 3 representing the lowest risk but still within the groundwater catchment. There are no source protection zones within 1km of the site.

2.10 Ecological and other designations

There are no Sites of Special Scientific Interest (SSSI), Special Areas of Conservation (SAC), Special Protection Areas (SPA), or Ramsar sites within 1km of the site.

The closest SSSI, East Aberthaw Coast is located 1.5km downstream to the south of the site.

SSSIs are the finest sites for wildlife and natural features, supporting many characteristics, rare and endangered species, habitats, and natural features.

The scheme sits within and alongside three Sites of Importance for Nature Conservation (SINC) (numbers 314, 315 and 320).

Is should be noted that the River Kenson is known for trout fishing, managed by the Fonmon Castle. The valley meadows are mainly unenclosed and used for cattle grazing3. The valley sides contain ancient woodland.

6 Home | DataMapWales

3 Environmental Data and Contamination Sources

3.1 Introduction

An assessment of potential contamination sources has been completed through a review of a number of data sources including regulatory data (such as waste management licenses, trade directories, and pollution incident records), historical mapping, and the National Hazard Directory. Regulatory data and historical mapping were sourced through a Landmark Envirocheck Report and can be found in Appendix A.

3.2 Regulatory and environmental data

Table 3-1 provides a summary of the regulatory and environmental data concerning the site and local area.

Table 3-1: Summary of regulatory and environmental data

Data source	Details
Explosive sites	None within 1km.
Contaminated land register entries	None within 1km.
Mineral Safeguarding Areas	The site is located within a Mineral Safeguarding Limestone 2 area under the Vale of Glamorgan (VoG) Local Development Plan (LDP). Policy MG22 (Development in Minerals Safeguarding Areas) identifies the site as having known mineral resources of sandstone, sand and gravel and limestone. New developments will only be permitted in an area of known mineral resource where it can be first demonstrated that: Any reserves of minerals can be economically extracted prior to the commencement or development; Extraction would have an unacceptable impact on environmental or amenity considerations; The development would have no significant impact on the possible working of the resource by reason of its nature or size; or The resource in question is of poor quality/quantity.

Data source	Details
BGS Recorded Mineral Sites	0-250m of site, upgradient of site: Three site (ceased opencast limestone quarries) 0-250m of site, downstream of site: Two sites (all ceased opencast limestone quarries) 500-1000m of site, upgradient of site Five sites (all ceased limestone quarries) 500-1000m of site, downgradient of site Nine sites (four clay and shale opencast quarries, five limestone quarries ceased or dormant) These are all ceased or dormant and most are downstream of the site associated with the cement works (Figure 3-1), however the ceased opencast limestone quarry at Cliff Wood and Burton Bridge may have been sources of contamination to the Kenson.

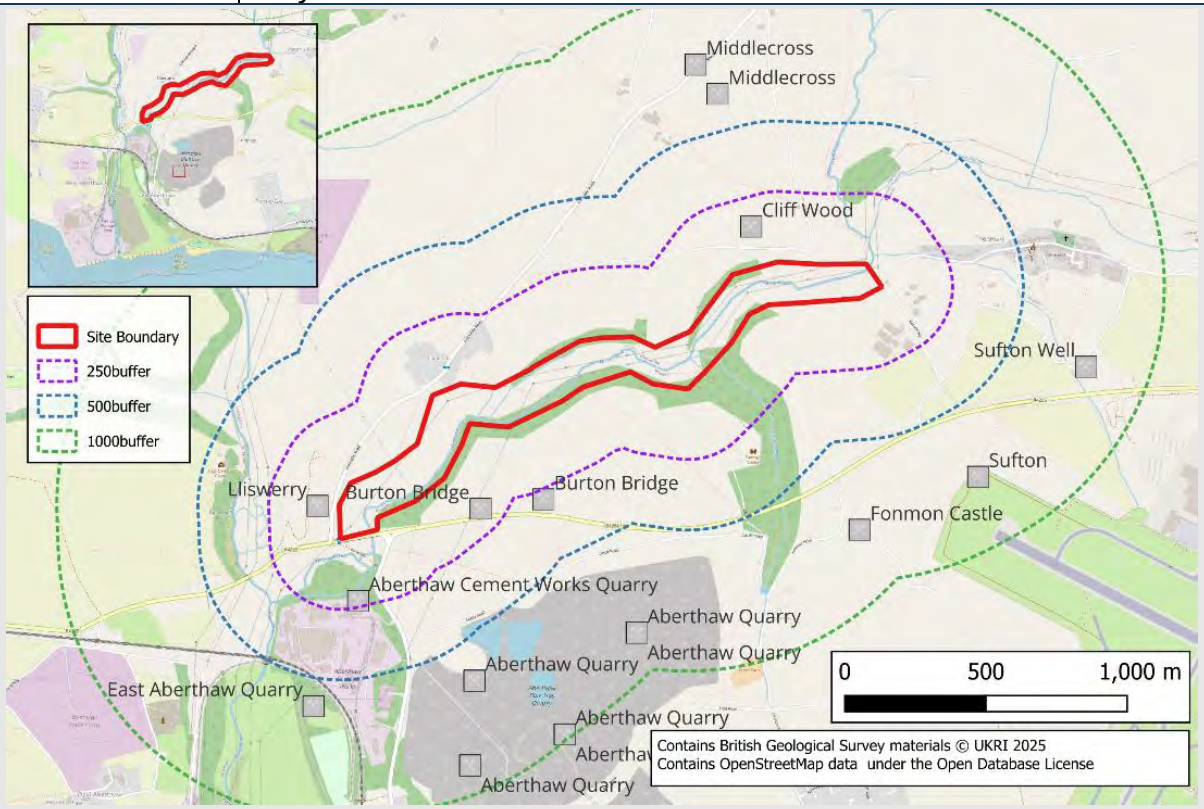

Figure 3-1: Recorded Mineral extraction sites

Data source	Details
Landfill sites (BGS recorded and historical landfill sites)	0-250m of site, upgradient of site: Two Local Authority Recorded Landfill Sites (status not supplied) One Historic Landfill Site (closed) Two Registered Landfill Sites (licence lapsed) The historic landfill and local authority landfill include inert waste. They are located next to the western boundary of the site may be a source of contamination. 250-500: None 500-100m of site, upstream: One Historic Landfill Sites (closed) 500-1000m of site, downstream of site: Three Local Authority Recorded Landfill Sites (status not supplied) Five Historic Landfill Sites (closed) One BGS Recorded Landfill Sites (status not supplied) Two Registered Landfill Sites (one lapsed, one operational) Most are associated with the downstream Aberthaw cement works (Figure 3-2). The Historic landfill at Sefton quarry to the east of the site includes inert waste. It is on an upstream tributary of the Kenson; the Cardiff Airport drainage stream, however, due to the distance from the site, the potential for contamination is considered to be low.
Other waste management sites	0-250m of site, upgradient of site: One Licensed Waste Management Facility (active licence). 200-500m of site, downstream: One Licensed Waste Management Facility (active licence). 500m-1000m of site, downstream: Three Licensed Waste Management Facility (two closed, one active).

Data source	Details

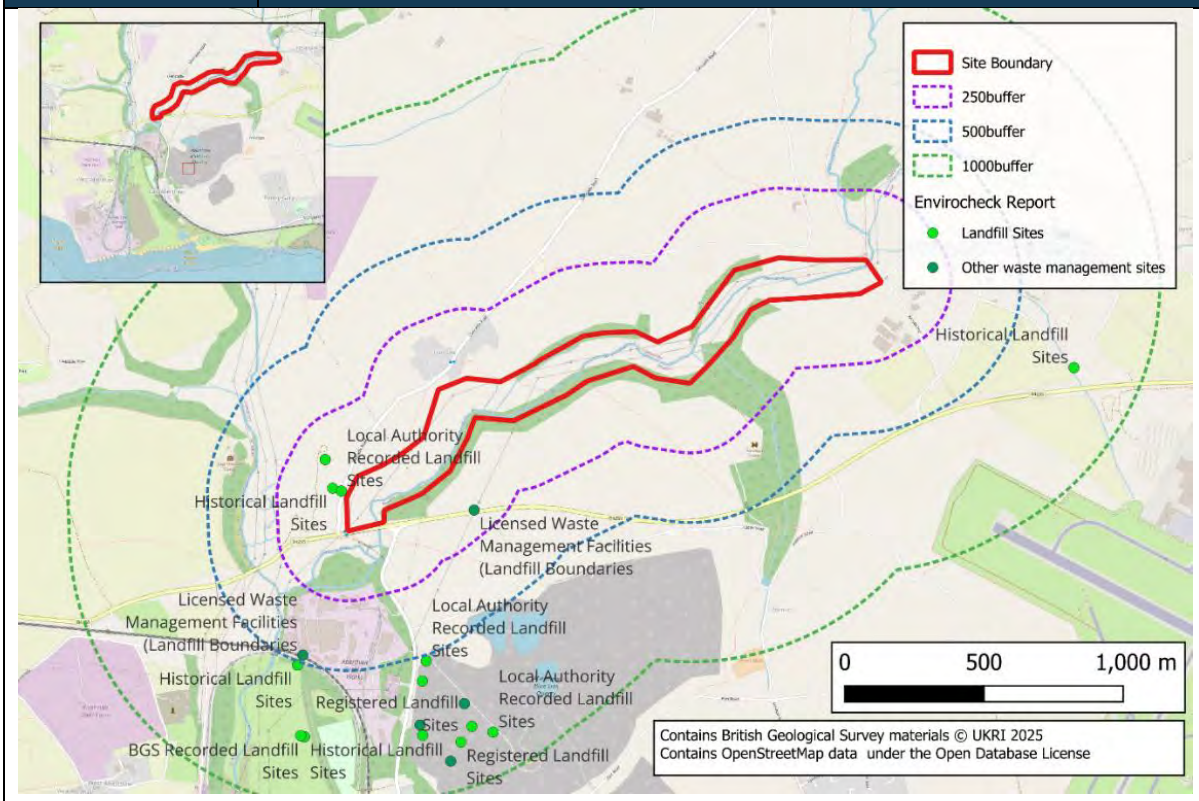

Figure 3-2: Landfill and waste management

Hazardous substances	None within 1km.
Planning Hazardous Substance Consent	None within 1km.
Registered Radioactive Substances	None within 1km.
Fuel station entries	One petrol station, 950m from site.
Contemporary trade directory entries	Nine at 500-1000m from site.
LAPPC	One authorised, 950m from site, downstream
IPC/IPPC	One suspended IPC, 450m from site Twenty IPC/IPPC 500-1000m from site, all downstream

Data source	Details
Discharge consents	Upstream: 0-250m of site: Three consents 200-500m of site: Two consents 500m-1000m of site: Eleven consents Downstream: 200-500m of site: Eight consents 500m-1000m of site: Three consents The discharge consents on upstream tributaries of the River Kenson (Figure 3-3) may constitute a source of contamination.
Recorded pollution incidents to controlled waters	0-250m of site: No incidents 200-500m of site, downgradient: Two significant (category 2) incidents 1991: Organic, 2001: Not supplied 500m-1000m of site, upgradient: Five significant (category 2) incidents 1997: foam/soap, 1997: foam/soap, 1997: foam/soap, unknown date: agricultural slurry, 2005: agricultural slurry Five minor (category 3) incident 1997: foam/soap, 1997: algae, 1996: light oil, 1994: unknown, 1997: foam/soap 500m-1000m of site, downgradient: One minor (category 3) incident 1996: Diesel Ten of these are on upstream tributaries of the River Kenson (Figure 3-3) so may constitute a source of contamination, although all are before 2005.

Data source	Details

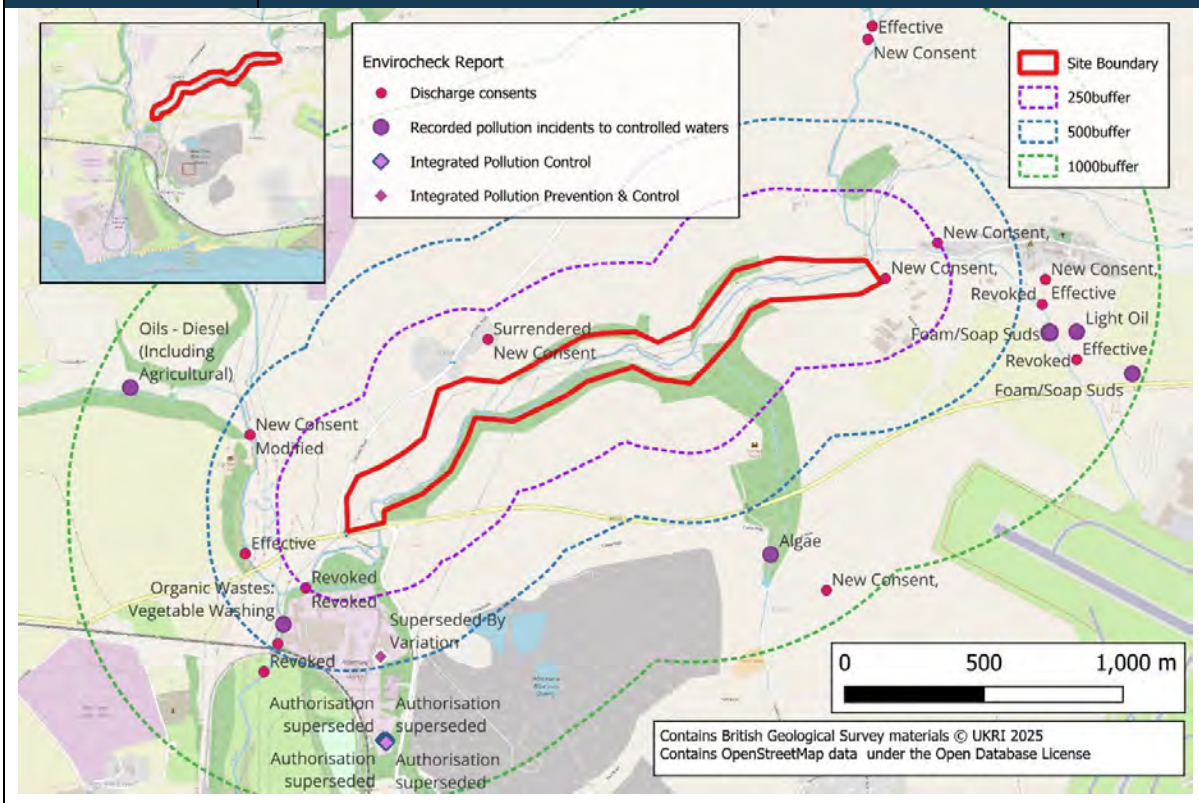

Figure 3-3: Discharge and pollution incidents

Mining Instability	None within 1km.

Notes:
IPC = Integrated Pollution Control; IPPC = Integrated Pollution Prevention & Control; LAPPC = Local Authority Pollution Prevention & Controls

3.3 Historical land use

The historical land uses on and adjacent to the site have been determined from a review of historical OS mapping supplied as part of the Landmark Envirocheck Report (Appendix A.1) and a summary is outlined in the sections below. These maps at scales of 1:2,500, 1:10,000, and 1:10,560 were produced between 1875 to 2022. A summary of historical land uses within the site is given in Table 3-2.

Table 3-2: Historical land use

Map year	Land use on site	Land use off-site (within 1km)	Potential contamination sources
OS 1885 to 1900	The River Kenson flows through the site. The river is bounded by a marshy floodplain. The steep valley sides are topped by woodlands. No changes to its course, floodplain, or woodlands before 1900.	Between 1995 and 1900, the Railway line was established 300m west of the site on the floodplain of the River Thaw A small quarry appears just at the *western* edge of the site A few Blue Lias quarries and lime works appear beside the railway, 100-300m from the *western* edge of the site	Quarries Agricultural Runoff
OS 1900 To 1921	No changes to its course, floodplain, or woodlands before 1990	Between 1900 and 1921 the Aberthaw Cement Works is constructed 300m southwest of the site. There is also an expansion in the quarrying near the railway, with the boundary now 80m from the *western* edge of the site	Aberthaw Cement Works is downstream of the River Kenson.. Railway infrastructure (Tracks and Powerlines)
1921 To 1945	Minor straightening to river course, with two small (<30m) meanders cut off, near Llancadle and	Establishment of a tip on the island 50-200m downstream of the western end of the site, before confluence with the River Thaw. Straightening to the northern branch of the river Kenson around the island cutting off a	Tip immediately downstream of site, likely associated with cement works. Expansion of cement works. Both downstream

Map year	Land use on site	Land use off-site (within 1km)	Potential contamination sources
	upstream of Ffwl-y-mwn Brook. Installation of structures across the river at these points. Conversion of woodland to marsh with the installation of a second drain where the Ffwl-y-mwn Brook enters the Kenson from the direction of Fonmon castle.	meander. Quarries 150m from the western end of the site cease. Doubling in size of Aberthaw cement works 300-500m downstream from the site. Establishment of large quarry area associated with the works south, 400m from the site. The Vale Railway line is abandoned and dismantled between this period, but the course remains unchanged.	but potential risk of airborne contamination
1945-1969	No significant changes	Between 1964 and 1969, the southwest edge of the site is bypassed with the construction of a viaduct that immediately borders the site. Construction of Cardiff (Rhoose) Airport 800m south of the upstream end of the south	Contamination from the road into the River Kenson during construction works
1969-1972	Significant straightening of the river, with nine meanders cut out near to Kenson Wood, Castle wood Llancadle Gorse and the northern end of the river. Construction of electricity transmission along the valley,	Straightening continues upstream in the river Nant Llancarfan, and the River Waycock, tributaries of the Kenson. Completion of the road bounding the southeastern downstream boundary of the site. The tip on the island immediately downstream of the site is now marked	Cardiff Airport drains upstream of the site, with drainage flowing into the Kenson near Penmark, giving rise to potential contamination.

Map year	Land use on site	Land use off-site (within 1km)	Potential contamination sources
	with nine pylons on site.	disused. Another refuse tip is established between the railway and 100m from the site. Further expansion of the limestone quarry associated with the cement works 400m south of the site, surface water pond established on quarry site. Expansion of Cardiff Rhoose Airport 1km from site	
1974-1984	No significant changes	Construction of B4265 road with embankments along the southwestern boundary, extending from the viaduct past Fonmon castle	The road is upgradient of the river, with the potential for contamination from road runoff, although it is mostly contained in embankment drainage which may limit runoff towards the Kenson.
1984-1990	No significant changes	Complete cover of the disused tip immediately southwest of the site with mixed woodland. Further expansion of Aberthaw cement works and quarry 300-1000m from the site, doubling of surface water ponds on quarry site. Further expansion of Cardiff Airport, and increased drainage north from the airport towards the river	Improved airport drainage may increase movement of any contaminants from the Airport into the Kenson

Map year	Land use on site	Land use off-site (within 1km)	Potential contamination sources
1993-1994	Construction of track parallel to River Kenson, on northern bank Construction of second pylon on site, with another five pylons on site.	No significant changes	Increased sediment input to river from track erosion and pylon construction.
1994-1999	No significant changes	Construction of small sewage work 900m northeast of the upstream end of the site, on the tributary Nand Llancarfan	Sewage works may reduce sewage impacts of Llancarfan, but storm outflows may impact the River Kenson
1999-2006	Loss of short drain into River Kenson at Burton Plantation, in the SW of the site	No significant changes	
2006-2024	Extension of track from Fonmon castle onto site with track bridge across river	Construction of solar plant 600m northwest of site. Continued small expansions to quarry at Aberthaw cement works (separated from site by B4265)	The River Kenson remains surrounded and downgradient of agricultural land, so agricultural runoff may be a source of contamination.

3.3.1 Channel history

Sections of the River Kenson have been modified and straightened throughout the site boundary.

Reviewing the 1879-2024 mapping, the most significant alteration to the channel occurred between 1969 and 1971, with the straightening of meanders in the river. The width and course otherwise remained approximately the same from 1879 to the present. The valley contains seven drain cuttings which predate 1885.

4 Preliminary Environmental Risk Assessment

4.1 Introduction

This preliminary environmental risk assessment has been undertaken in accordance with the Environment Agency's Land Contamination Risk Assessment (LCRM), which follows a source-pathway-receptor methodology, which is described in Appendix B. This section summarises the findings for each component of this assessment, which then culminates in the development of a conceptual site model. This model is then used to develop a risk rating for any given potential contamination source that has been identified.

4.2 Potential Contamination Sources

The potential sources of contamination have been identified from regulatory data and historical and current land uses within a 1km buffer of the site are shown in Table 4-1.

The primary potential sources are identified in Figure 4-1.

Table 4-1: Identified potential contamination sources

Source	Potential contaminants of concern	Severity (hazard)
Onsite		
MADE GROUND associated with • **Trackways** near to the river • **Footpaths and footbridges**	Oil and fuel spills along trackways from vehicles. Increased sediment input into rivers. Litter and waste on footpaths.	Medium
MADE GROUND associated with • **Pylons** supporting electrical transmission	Potential metallic pollution (eg galvanised steel) and plastic pollution. Oil or chemicals during routine maintenance. Disruption of soils.	Medium
AGRICULTURE • **Cattle** grazing within the site	Manure: nitrogen, phosphorous, pathogens, organic matter. Antibiotics and hormones. Sediment erosion and particulates.	Medium
Off-site, up to 1km from the site		
AGRICULTURE • **Arable** land surrounds the site, with drainage into the Kenson River valley	Phosphate, nitrate, sulphates, pesticides. Fertilizers. Herbicides. Toxic metals. Pathogens: bacteria, viruses, parasites. Plastic materials: mulching films, packaging. Suspended solids. Organic compounds	Medium
MADE GROUND	Household waste. Sewage, septic leaks: pathogens, nutrients. Household chemicals: cleaning	Medium

Source	Potential contaminants of concern	Severity (hazard)
• **Residential**: Penmark, Llancadle, Llancarfan	agents, paints, solvents. Gardens: pesticides, herbicides, fertilizers, organic matter. Plastics and microplastics	
MADE GROUND • **Roads**: Llancadle Road, B4265 • **Embankments**	Oil and fuel spills. Tire and brake wear. Road salt. De-icing chemicals. Fly-tipping and litter.	Medium
COMMERCE and INDUSTRY • **Airport**: Cardiff Airport	Aviation fuels (hydrocarbons, benzene, toluene), anti-freeze and de-icing agents (ethylene glycols, acetates), organic solvents (ketones, methanol, hydrocarbons. Esters, chlorinated. Fire-fighting agents (PFAS). Toxic metals (fuel additives, paints). Plastics and microplastics, Tire and brake wear. Washing agents, lubricants. general contaminants (Polychlorinated buphenyls, asbestos)	Severe
COMMERCE and INDUSTRY • **Limestone quarrying and tips**: Aberthaw Quarry, Quarrying west of site, Quarrying near Penmark	Limestone dust and dissolved solids. Explosives: nitrates. Toxic metals and fuel spills from quarrying processes. Sulphates from sulphide minerals in limestone. ACMs	Medium
COMMERCE and INDUSTRY • **Cement manufacturing**: Aberthaw Cement Works	Toxic metals: lead, cadmium, chromium. Particulate matter. Alkalinity- high pH. Organic compounds.	Severe
COMMERCE and INDUSTRY • **Rail**: west of site	Oil and petroleum substances. PAHs. Toxic metals. Pesticides, creosote.	Medium
DISCHARGES • **From sewage treatment works** near to Llancarfan into the Nant Llancarfan • **From combined sewage and trade waste**: from Llancadle and Penmark	Nutrients: nitrogen, phosphorous. Toxic metals: lead, mercury, cadmium. Pathogens: bacteria, viruses, parasites. Persistent Organic Pollutants: polychlorinated biphenyls, dioxins. Pharmaceuticals and Personal care products. Synthetic chemicals: PFAS. Chlorinated solvents. Microplastics. Organic Compounds.	Severe

Source	Potential contaminants of concern	Severity (hazard)
DISCHARGES • **Discharges associated with the airport**, alongside Significant pollution incidents for light oil and foam/soap suds from the British Airways Engineering building, into the stream that joins the Kenson after Penmark	Light oils: lubricants, hydraulic fluids, petroleum based products. Foam and soap suds, surfactants. Toxic metals: lead, mercury. Cadmium. Firefighting agents: PFAS. Chlorinated solvents. Anti-freeze and de-icing agents (glycols, acetates), organic solvents (ketones, methanol, hydrocarbons. Esters, chlorinated compounds), washing agents, lubricants, paints, general contaminants (Polychlorinated buphenyls, asbestos)	Severe
LANDFILLS • Upstream of site: Landfill associated with historic quarry • Range of local authority, historic landfill and licenced waste management facilities downstream of Site. A large proportion associated with the Aberthaw Cement Works and historic quarrying.	Leachates: Toxic metals, lead, mercury, cadmium, arsenic. Pathogens: bacteria, viruses, pathogens. Persistent organic pollutants: PCBs. Pharmaceuticals and personal care products. Nutrients: phosphorous, nitrogen, ammonium. Plastics, microplastics. Chlorinated solvents	Severe

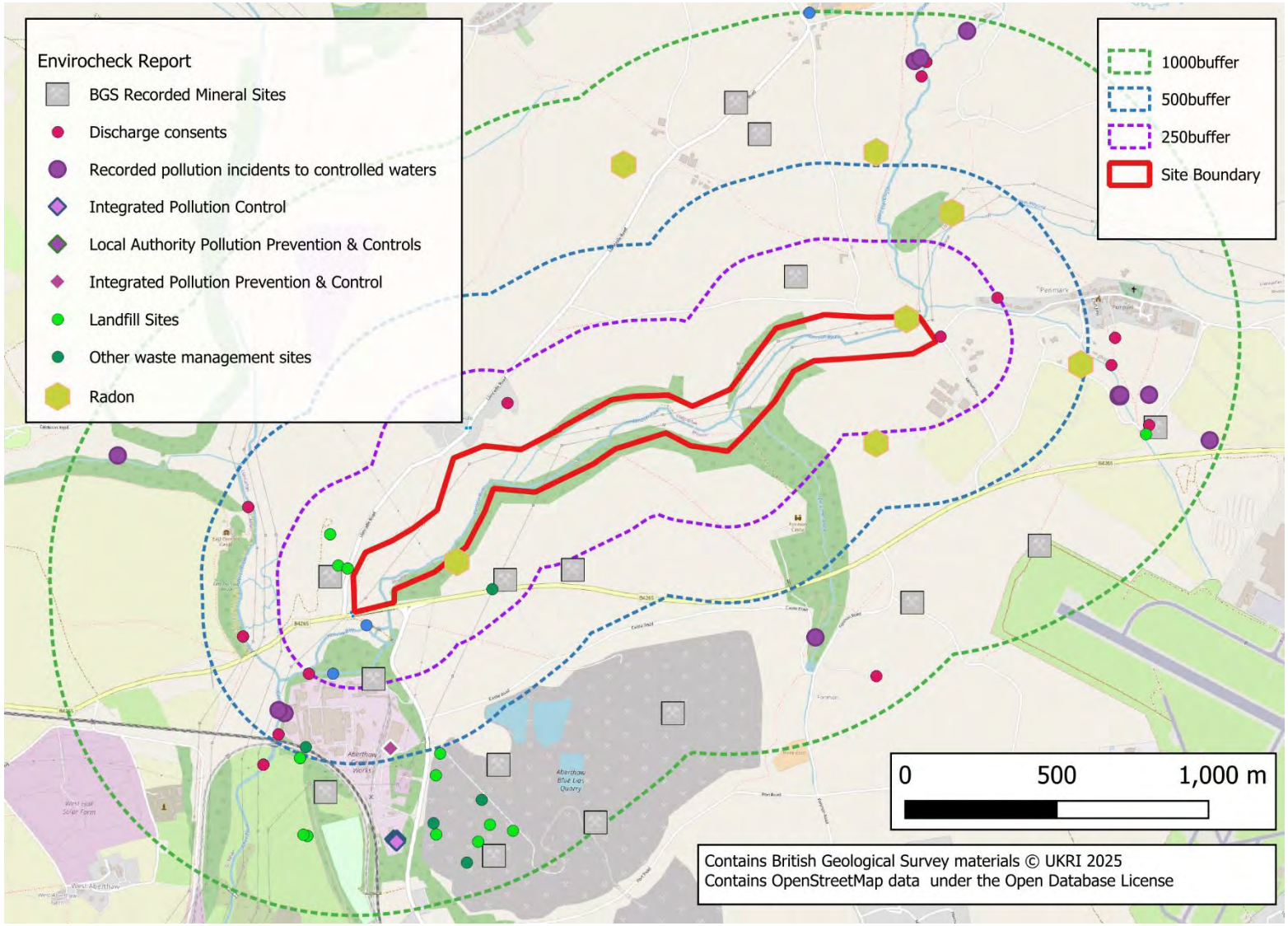

Figure 4-1: Potential contamination source

4.3 Pathways to receptors

Potential receptors and possible pathways for contaminants to reach these receptors are summarised below:

Table 4-2: Pathways to receptors

Pathway	Notes	Receptors
Direct Contact/Ingestion	Ingestion, inhalation, dermal contact for human health receptors	Construction workers Public end user
Uptake by plants	Through roots and water	Plants Grazing animals
Overland flow/runoff	Surface water overland	River Kenson River Thaw. Valley meadows.
Surface Water via drainage	Surface water migration in rivers, streams, and drains	River Kenson River Thaw. Commercial abstractions.
Groundwater infiltration/flow	Migration via leaching and infiltration to permeable strata Desk-based evidence indicates that infiltration to the secondary A superficial deposits (alluvium) through Made Ground deposits is possible. However, the bedrock aquifer is directly overlain by moderately permeable superficial deposits throughout the site, limiting flow.	Superficial Secondary A Aquifer: alluvium. Superficial Secondary A Aquifer: PorthKerry Member Commercial abstractions

4.4 Potential environmental receptors

A summary of environmental receptors that may be present in or within 1km from the site is given in Table 4-3. This shows receptor types and their associated sensitivity.

Table 4-3: Environmental receptors

Receptor Type	Receptor	Sensitivity	Reasoning
Human	Future site users and construction	High	Current proposed works would involve excavation and other

Receptor Type	Receptor	Sensitivity	Reasoning
receptors	workers involved in site development, and public site users, and site neighbours.		ancillary groundworks. The site is crossed by two public footpaths. Work may result in potential exposure to contaminants during groundworks, through direct contact, inhalation, or accidental ingestion of contaminants. Both construction workers and members of the public on site may be susceptible.
Ecology and Plants	Valley meadow, riparian ecosystem	High	Alteration to the site may change the inundation frequency at the site, potentially exposing plant material to contamination.
Livestock and grazing animals	Cattle and other livestock	Medium	Cattle grazing in the valley meadow may be affected by contamination to surface water
Groundwater	Secondary A aquifer (Alluvium Deposits)	High	Medium to Low vulnerability secondary A aquifer underlying soil.
Groundwater	Secondary A aquifer (Porth Kerry Member)	Medium	Medium to Low vulnerability Secondary A aquifer underlying Alluvium.
Surface water	River Kenson. River Thaw.	High	Restoration scheme includes alterations to river and the river corridor. Contaminants may reach the River Kenson via surface runoff and flow from the Penmark Stream and Nant Llancarfan, as well as through groundwater flow.
Commercial / agricultural	Surface water abstraction (Aberthaw Cement Works)	Medium	Contamination of surface water will impact water quality of downstream abstractions.

4.5 Conceptual site model

A preliminary conceptual model for the site and surrounding environment has been developed based on the information available and described below.

- Superficial deposits underlying the site are categorised as:
  - Alluvium deposits comprised of clay, silt, sand and gravel, categorised as a Secondary A Aquifer
- The bedrock deposits underlying the site are categorised as:

    - Porthkerry member: moderate-high permeability, secondary aquifer
- Hydrology in the area comprises the River Kenson
    - Its upstream tributaries are the Nant Llancarfan, River Waycock, and stream from the Cardiff Airport passed Penmark.
    - It joins the River Thaw 300m southwest downstream of the site
- Groundwater within the bedrock aquifers is likely to flow towards the River Kenson.
- Throughout the majority of the site, superficial deposits are present and will likely reduce rate of vertical infiltrations to the bedrock aquifer below.
- A groundwater pathway likely exists between the superficial deposits and the underlying bedrock, through the higher permeability areas with sand and gravel-dominated layers.
- Groundwater within the bedrock aquifer follows the regional topography, flowing towards the south. There may be some hydrological connection between surface waters, groundwater within the superficial deposits, and the shallow bedrock aquifer where it is not overlain by superficial deposits.

4.6 Uncertainties and opportunities

The conceptual site model has the following uncertainties:

- The presence of contamination within the underlying Made Ground has not been verified by an intrusive site ground investigation. On-site and off-site potential sources of contamination, such as nearby electrical substations, waterworks, outlets, sewage works, and tanks have not been investigated. An intrusive ground investigation is recommended in Section 6.5.
- Ground conditions within the area of proposed works, including geological profile and groundwater characteristics have been inferred from available mapping and local borehole records.
- The geotechnical properties of site-won materials are presently unknown due to lack of site specific information, therefore the suitability of materials for use in enabling works and earthworks is unknown.
- Assessment of historical landfills is based on a review of recorded sites. There is the potential for unrecorded landfills to be present within 250 m of the study area.

5 Qualitative Risk Assessment

The conceptual site model is used to identify potential pollutant linkages by identifying the following:

- Potential contamination source(s) - a contaminant or pollutant that is in, on, or under the land and that has the potential to cause harm or pollution;
- Environmental pathways - a route by which a receptor is or could be affected by a contaminant; and,
- Environmental receptors - that could be adversely affected by a contaminant, e.g. construction workers, future site users, controlled waters, ecological receptors, etc.

A pollutant linkage must be present for there to be a Source-Pathway-Receptor linkage. Without a pollutant linkage, there is no risk - even if a potential source of contamination is present.

A tabulated summary of the risk assessment process can be seen in Table 5-1. This firstly describes the sources, pathways, and receptors derived from the baseline desk study and conceptual model. The assessment methodology for PRA described in Appendix B is then utilised to derive the potential severity of the given potential contamination source on any identified potential receptors. Finally, the likelihood of said contamination source reaching the receptor is given, which in conjunction with the potential severity is used to state a final risk value for each receptor. A full breakdown of potential contaminants associated with each source is shown in Table 4-1.

Table 5-1: Qualitative risk assessment summary

Source: **Error! Reference source not found.**	Pathway: **Error! Reference source not found.**	Receptor: **Error! Reference source not found.**	Severity	Probability	Risk
On Site Sources					
MADE GROUND **Trackways** near to the river **Footpaths** and **footbridges** **Pylons** supporting electrical transmission *Oil and fuel spills along trackways from vehicles. Increased sediment input into rivers. Litter and waste on footpaths. Potential metallic pollution (eg galvanized steel) and plastic pollution. Oil or chemicals during routine maintenance. Disruption of soils.*	Direct Contact/Ingestion	Human Receptors	Medium	Low.	Moderate/Low risk
		Livestock and Grazing animals	Medium	Low.	Moderate/Low risk
	Uptake by plants	Ecology and Plants	Mild	Low	Low risk
		Livestock and Grazing animals	Mild	Low	Low risk
	Surface Water via drainage	River Kenson. River Thaw.	Medium	Likely	Moderate risk
		Surface water abstractions	Medium	Low	Moderate/Low risk
	Groundwater infiltration/flow	Secondary A superficial aquifer	Medium	Low	Moderate/Low risk
		Secondary A Bedrock Aquifer	Mild	Low	Low risk
AGRICULTURE **Cattle** grazing within the site *Manure: nitrogen, phosphorous, pathogens, organic matter. Antibiotics and hormones. Sediment erosion*	Direct Contact/Ingestion	Human Receptors	Medium	Low	Moderate/low risk
	Uptake by plants	Plants, Grazing animals	Mild	High	Moderate risk
	Surface Water via drainage	River Kenson. River Thaw.	Medium	High	High risk

Source: **Error! Reference source not found.**	Pathway: **Error! Reference source not found.**	Receptor: **Error! Reference source not found.**	Severity	Probability	Risk
and particulates.		Surface water abstractions	Medium	Likely	Moderate risk
	Groundwater infiltration/flow	Secondary A Superficial Aquifer	Medium	Likely	Moderate risk
		Secondary A Bedrock Aquifer	Mild	Low	Low risk
Off-site, up to 1km from the site.					
AGRICULTURE **Arable** land surrounds the site, with drainage into the Kenson River valley *Phosphate, nitrate, sulphates, pesticides. Fertilizers. Herbicides. Toxic metals. Pathogens: bacteria, viruses, parasites. Plastic materials: mulching films, packaging. Suspended solids. Organic compounds*	Overland flow/runoff	River Kenson, River Thaw.	Medium	High	High risk
		Valley ecology and plants	Mild	High	Moderate risk
		Livestock and Grazing animals	Mild	Likely	Moderate/low risk
		Human receptors	Medium	Low	Moderate/low risk
	Surface Water via drainage	River Kenson. River Thaw.	Medium	High	High risk
		Surface water abstractions	Medium	Likely	Moderate risk
	Groundwater infiltration/flow	Secondary A Superficial Aquifer	Medium	Likely	Moderate risk
		Secondary A Bedrock Aquifer	Mild	Likely	Moderate / low risk
MADE GROUND	Surface Water via	River Kenson.	Medium	Likely	Moderate risk

Source: **Error! Reference source not found.**	Pathway: **Error! Reference source not found.**	Receptor: **Error! Reference source not found.**	Severity	Probability	Risk
Residential: Penmark, Llancadle, Llancarfan *Household waste. Sewage, septic leaks: pathogens, nutrients. Household chemicals: cleaning agents, paints, solvents. Gardens: pesticides, herbicides, fertilizers, organic matter. Plastics and microplastics*	drainage	River Thaw.			
		Surface water abstractions	Medium	Likely	Moderate risk
	Groundwater infiltration/flow	Secondary A Superficial Aquifer	Medium	Low	Moderate / low risk
		Secondary A Bedrock Aquifer	Medium	Low	Moderate / low risk
MADE GROUND **Roads**: Llancadle Road, B4265 **Embankments** *Oil and fuel spills. Tire and brake wear. Road salt. De-icing chemicals. Fly-tipping and litter.*	Overland flow/runoff	River Kenson, River Thaw.	Medium	Likely	Moderate risk
		Valley ecology and plants	Mild	Likely	Moderate / low risk
		Livestock and Grazing animals	Mild	Low	Low risk
		Human receptors	Medium	Low	Moderate/low risk
	Surface Water via drainage	River Kenson. River Thaw.	Medium	Likely	Moderate risk
		Surface water abstractions	Medium	Low	Moderate / low risk
	Groundwater infiltration/flow	Secondary A Superficial Aquifer	Medium	Low	Moderate/ low risk
		Secondary A Bedrock Aquifer	Mild	Low	Low risk

Source: **Error! Reference source not found.**	Pathway: **Error! Reference source not found.**	Receptor: **Error! Reference source not found.**	Severity	Probability	Risk
COMMERCE and INDUSTRY **Airport**: Cardiff Airport *Aviation fuels (hydrocarbons, benzene, toluene), anti-freeze and de-icing agents (ethylene glycols, acetates), organic solvents (ketones, methanol, hydrocarbons. Esters, chlorinated. Fire-fighting agents (PFAS). Toxic metals (fuel additives, paints). Plastics and microplastics, Tire and brake wear. Washing agents, lubricants. general contaminants (Polychlorinated buphenyls, asbestos)*	Overland flow/runoff	River Kenson, River Thaw.	Severe	Likely	High risk
		Valley ecology and plants	Medium	Likely	Moderate risk
		Livestock and Grazing animals	Medium	Likely	Moderate risk
		Human receptors	Severe	Low	Moderate risk
	Surface Water via drainage	River Kenson. River Thaw.	Severe	High	Very high risk
		Surface water abstractions	Severe	Likely	High risk
	Groundwater infiltration/flow	Secondary A Superficial Aquifer	Severe	Likely (Vertical migration of highly mobile Hydrocarbons, solvents, fuels oils, de-icing agents, and soluble inorganic contaminants)	High risk
		Secondary A Bedrock Aquifer	Severe	Low	Moderate risk
COMMERCE and INDUSTRY	Overland flow/runoff	River Kenson, River Thaw.	Medium	Low	Moderate / low risk

Source: **Error! Reference source not found.**	Pathway: **Error! Reference source not found.**	Receptor: **Error! Reference source not found.**	Severity	Probability	Risk
Limestone quarrying and tips: Aberthaw Quarry, Quarrying west of site, Quarrying and tips near Penmark *Limestone dust and dissolved solids. Explosives: nitrates. Toxic metals and fuel spills from quarrying processes. Sulphates from sulphide minerals in limestone. ACMs*		Valley ecology and plants	Mild	Low	Low risk
		Livestock and Grazing animals	Mild	Low	Low risk
		Human receptors	Mild	Low	Low risk
	Surface Water via drainage	River Kenson. River Thaw.	Mild	Likely	Moderate / low risk
		Surface water abstractions	Mild	Low	Low risk
	Groundwater infiltration/flow	Secondary A Superficial Aquifer	Mild	Low	Low risk
		Secondary A Bedrock Aquifer	Mild	Low	Low risk
COMMERCE and INDUSTRY **Cement manufacturing**: Aberthaw Cement Works	None	None	Severe	Unlikely	None
COMMERCE and INDUSTRY **Rail**: west of site	None	None	Medium	Unlikely	None
DISCHARGES **From sewage treatment works** near to Llancarfan into the Nant Llancarfan **From combined sewage and trade waste**: from Llancadle and Penmark *Nutrients: nitrogen,*	Overland flow/runoff	River Kenson, River Thaw.	Severe	Likely	High risk
		Valley ecology and plants	Medium	Likely	Moderate risk
		Livestock and Grazing animals	Medium	Likely	Moderate risk
		Human receptors	Medium	Likely	Moderate risk

Source: **Error! Reference source not found.**	Pathway: **Error! Reference source not found.**	Receptor: **Error! Reference source not found.**	Severity	Probability	Risk
phosphorous. Toxic metals: lead, mercury, cadmium. Pathogens: bacteria, viruses, parasites. Persistent Organic Pollutants: polychlorinated biphenyls, dioxins. Pharmaceuticals and Personal care products. Synthetic chemicals: PFAS. Chlorinated solvents. Microplastics. Organic Compounds	Surface Water via drainage	River Kenson. River Thaw.	Severe	High	Very high risk
		Surface water abstractions	Severe	High	Very high risk
	Groundwater infiltration/flow	Secondary A Superficial Aquifer	Medium	Likely	Moderate risk
		Secondary A Bedrock Aquifer	Medium	Low	Moderate / low risk
DISCHARGES **Discharges associated with the airport**, alongside significant pollution incidents for light oil and foam/soap suds from the British Airways Engineering building, into the stream that joins the Kenson after Penmark *Light oils: lubricants, hydraulic fluids, petroleum based products. Foam and soap suds, surfactants. Toxic metals: lead, mercury. Cadmium. Firefighting agents: PFAS. Chlorinated solvents. Anti-freeze and de-icing*	Overland flow/runoff	River Kenson, River Thaw.	Severe	Likely	High risk
		Valley ecology and plants	Severe	Likely	High risk
		Livestock and Grazing animals	Severe	Likely	High risk
		Human receptors	Severe	Low	Moderate risk
	Surface Water via drainage	River Kenson. River Thaw.	Severe	High	Very high risk
		Surface water abstractions	Severe	High	Very high risk
	Groundwater infiltration/flow	Secondary A Superficial Aquifer	Severe	Likely	High risk
		Secondary A	Severe	Low	Moderate risk

Source: **Error! Reference source not found.**	Pathway: **Error! Reference source not found.**	Receptor: **Error! Reference source not found.**	Severity	Probability	Risk
agents (glycols, acetates), organic solvents (ketones, methanol, hydrocarbons. Esters, chlorinated compounds), washing agents, lubricants, paints, general contaminants (Polychlorinated buphenyls, asbestos).		Bedrock Aquifer			
LANDFILLS Upstream of site: Landfill associated with historic quarry Range of local authority, historic landfill and licenced waste management facilities downstream of Site. A large proportion associated with the Aberthaw Cement Works and historic quarrying. *Leachates: Toxic metals, lead, mercury, cadmium, arsenic. Pathogens: bacteria, viruses, pathogens. Persistent organic pollutants: PCBs. Pharmaceuticals and personal care products. Nutrients: phosphorous, nitrogen, ammonium. Plastics, microplastics. Chlorinated*	Overland flow/runoff	River Kenson, River Thaw.	Medium	Likely	Moderate risk
		Valley ecology and plants	Mild	Low	Low Risk
		Livestock and Grazing animals	Mild	Low	Low Risk
		Human receptors	Medium	Low	Low Risk
	Surface Water via drainage	River Kenson. River Thaw.	Medium	Likely	Moderate risk
		Surface water abstractions	Medium	Low	Moderate / low risk
	Groundwater infiltration/flow	Secondary A Superficial Aquifer	Medium	Likely	Moderate risk
		Secondary A Bedrock Aquifer	Mild	Low	Low risk

Source: **Error! Reference source not found.**	Pathway: **Error! Reference source not found.**	Receptor: **Error! Reference source not found.**	Severity	Probability	Risk
solvents					

6 Preliminary Geotechnical Assessment

6.1 Introduction

This section will discuss the potential geotechnical risks associated with the anticipated ground conditions and project proposal.

6.2 Identified hazards

The potential ground stability hazards have been identified from regulatory data on the site and surrounding area. The datasets cover the following hazards and indicate potential ground subsidence from natural sources:

- Potential for collapsible ground stability hazard
- Potential for compressible ground stability hazard
- Potential for ground dissolution stability hazard
- Potential for landslide ground stability hazard
- Potential for shrinking or swelling clay ground stability hazards
- Potential for running sand ground stability hazards

A summary of the regulatory data concerning the ground stability within the site and the surrounding area is given Table 6-1and Table 6-2. The possible rating levels for this dataset are high, moderate, low, very low potential and no hazard.

Table 6-1: On-site Stability Hazards

Collapsible Ground Stability Hazards	No hazard to very low
Compressible Ground Stability Hazards	No hazard to moderate
Ground Dissolution Stability Hazards	No hazard to very low
Landslide Ground Stability Hazards	Low to moderate
Running Sand Ground Stability hazards	No hazard to low
Shrinking or Swelling Ground Stability Hazards	No hazard to very low

Table 6-2: Off-site Stability Hazards (within 250m)

Collapsible Ground Stability Hazards	-
Compressible Ground Stability Hazards	-
Ground Dissolution Stability Hazards	No hazard
Landslide Ground Stability Hazards	Low to moderate
Running Sand Ground Stability hazards	-
Shrinking or Swelling Ground Stability Hazards	-

6.3 Earthworks

The conceptual ground model indicates that the site is likely to be underlain by alluvial deposits. Alluvial deposits are unconsolidated deposits comprising sand, silt, gravel and clay. Any excavations within alluvium deposits are required to be designed conservatively to have a 1V:3H slope. Goetechnical testing as part of a site-specific ground investigation should be undertaken to determine suitable slope angles. Any temporary excavations, particularly saturated deposits below the groundwater table may require temporary support/shoring.

6.4 Ground dissolution

The Porthkerry Member consists of a sequence of regularly bedded limestones and mudstones. Limestone is a soluble rock therefore there is a potential risk of voids and karstic features caused by dissolution being present. The depth of bedrock beneath the site is unknown and may be determined as part of an intrusive site investigation.

6.5 Proposed ground investigation

It is recommended that a ground investigation is undertaken in accordance with the BS 5930:2015 to further characterise ground conditions on-site where works are planned. The ground investigation should comprise the following:

- Hand dug pits to determine the shallow ground conditions and obtain samples for geotechnical and geoenvironmental testing.
- Groundwater strikes should be recorded during the ground investigation.
- Logging of trial pits and window samples be accordance with the BS 5930:2015.
- Geotechnical and Geoenvironmental laboratory testing.

7 Conclusions

7.1 Site history and potential sources of contamination

A review of historical mapping indicates that the site has remained reasonably unchanged since the early 19th century. The local area has a history of industrial development (limestone quarrying and cement manufacture) from the late 19th Century onwards.

Within the site boundary, the following historic features were identified:

- Made Ground associated with agriculture, tracks and pylons

Within 1km of the site boundary, the following historical features were identified:

Upstream of site:

- Residential made ground
- Cardiff Airport
- Roads - B4625
- Discharges from Commerce, Public House
- Discharges from sewage treatment works, Llancadle and Llancarfan
- Discharges form airport
- Runoff from airport
- Agricultural runoff

Downstream of site:

- Aberthaw cement works

Potential sources of contamination at the sites and surrounding areas are associated with the following activities:

- The highest risk of contaminations arises form agricultural runoff, and the upstream discharges. These are likely to affect sediments and water quality in the River Kenson, with particular risk from the Cardiff Airport, given notable pollution incidents in the past.
- There are also moderate risks associated with Made Ground within the site associated with footpaths and pylons; and historical quarries, tips, and landfills within 1km of the site.

7.2 Geotechnical Assessment

The conceptual ground model indicates that the site is likely to be underlain by alluvial deposits. Alluvial deposits are unconsolidated deposits comprising sand, silt, gravel and clay. Any excavations within alluvium deposits are required to be designed conservatively to have a 1V:3H slope.

The ground conditions beneath the site are unknown but published BGS maps indicate bedrock as the Porthkerry Member which consists of sequences of mudstone and limestone. Limestone is a soluble rock and can form voids and karst features.

An investigation to determine the shallow ground conditions and to prove if bedrock is at shallow depths beneath the site should be undertaken.

7.3 Environmental Risk Assessment Summary

The following SPR (Source-Pathway-Receptor) linkages remain from the preliminary risk assessment:

- The risk to construction workers and future site users is assessed as being **Moderate/low**:
  - Made Ground could be encountered within the site. The main risk is to site construction workers who may undertake earthworks in areas of contaminated Made Ground as part of the development works. Contamination may pose a short-term (acute) or long-term (chronic) risk to workers during construction and maintenance. However, potential risks can be mitigated through the adoption of good working practices on site as part of wider site management during construction.
- The risk to groundwater within superficial deposits is assessed as being **Moderate**:
  - The biggest risk is associated with discharges from the Cardiff Airport upstream of the site. Other sources are rated as moderate or low risk.
  - Development proposals could in certain circumstances lead to the creation of new migration pathways to the superficial aquifers (e.g. through groundworks, excavation, etc.) downstream and onsite. Care should be taken during ground works to not create any new pathways within the superficial aquifers.
- The risk to groundwater within bedrock is assessed as being **Moderate/low**:
  - The moderate risk is associated with discharges upstream of the site.
  - Development proposals could in certain circumstances lead to the creation of new migration pathways to the bedrock aquifers (e.g. through groundworks, excavation, etc.). Care should be taken during ground works to not create any new pathways within the bedrock aquifers.
- The risk to surface water is assessed as being **Moderate**:
  - This biggest risk is associated with discharges from the Cardiff Airport and from sewage treatments works upstream of the site.
  - Moderate risks are associated with agriculture on site, agriculture upgradient of the site.
  - There is the potential that any earthworks in potentially contaminated Made Ground could expose contaminated soils and introduce a new pathway to surface waters.. The control of sediment runoff during any proposed works should also be considered to be protective of surface waters.

7.4 Recommendations

Based upon the findings of this preliminary risk assessment, JBA have identified pollutant linkages with the potential to cause harm to surface water, along with a low to very low potential for Ground Stability Hazards. Site investigation is recommended to determine the shallow ground conditions beneath the site and allow for sampling for geotechnical and geoenvironmental laboratory testing.

It is recommended that care is taken during any proposed excavation works in Made Ground and that a plan should be put in place in case any unexpected contamination is encountered.

If unexpected contamination is encountered during the excavation works (visual and olfactory), separation, storage, and further assessment should be carried out.

Should there be a requirement for any of the Made Ground to be exported from the site, it is recommended that waste acceptance criteria testing is carried out to appropriately classify the material for disposal.

These recommendations could be addressed post permission and via a suitably worded condition.

7.5 Ground Investigation Recommendations

It is recommended that ground investigation is carried out by trial pits with a mechanical excavator and a window sampling rig in the central area of the site where the Made Ground is present along trackways. The goal of the investigation works would be to assess the ground conditions in terms of chemical and geotechnical material characteristics in the area of the site where the proposed restoration works (channel modification) are to be carried out. All trial pits should be logged to the appropriate standards (BS 5930:2015) to allow an understanding of the sequence, thickness and composition of the shallow ground conditions.

Due to the uncertainty as to the makeup of the Made Ground associated with tracks and pathways adjacent to the river, it is recommended that samples from the pits are scheduled for geoenvironmental laboratory analysis of a broad suite of potential contaminants (asbestos, toxic metals, hydrocarbons including PAHs, speciated TPH, PFAS etc.) to allow further risk assessment (generic quantitative risk assessment) to feed into the river restoration design. It is recommended that samples are scheduled for both soils and leachate analysis to allow assessment of risks to human health and River Kenson.

It is also recommended that surface water samples are collected from the river upstream and downstream of the site to assess the background concentrations of contaminants present.

A Appendices

A.1 Envirocheck Report

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
367701071_1_1

Customer Reference:
2025s0023

National Grid Reference:
303620, 167950

Slice:
A

Site Area (Ha):
40.66

Search Buffer (m):
1000

Site Details:

Site at
Llancadle/Llancatal
The Vale of Glamorgan

Client Details:

Miss A Atkins
JBA Consulting
Salt Mill
Saltaire
West Yorkshire
BD18 3LF

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Introduction

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

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England. The probability result is only valid for properties above ground. All basement and cellar areas are considered to be at additional risk from high radon levels. If an underground room such as a cellar or basement makes up part of the living or working accommodation, the property should be tested regardless of Radon Affected Area status.

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Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 4		2	9	3
Prosecutions					
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 8				9
Integrated Pollution Prevention And Control	pg 9			1	11
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 13				1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 13	Yes			
Pollution Incidents to Controlled Waters	pg 13			1	2
Historical Prosecutions					
Registered Radioactive Substances					
Substantiated Pollution Incident Register	pg 13			1	
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Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 17	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 20	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 20	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 21	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 36	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 53	20	16	93	68
Water Framework Directive - Catchment	pg 75	Yes	Yes		
Water Framework Directive - Groundwater	pg 76	Yes			
Water Framework Directive - Surface Waters	pg 76	Yes		Yes	

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Summary

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Local Authority Recorded Landfill Sites	pg 79		2		3
Potentially Infilled Land (Non-Water)	pg 80		4		2
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Registered Landfill Sites	pg 81		2		2
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Registered Waste Treatment or Disposal Sites	pg 82		1		
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					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 83	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 83	Yes		Yes	Yes
BGS Recorded Mineral Sites	pg 84		5		9
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			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 87	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 87	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 87	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 87	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 89	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 89	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 89	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 89	Yes	n/a	n/a	n/a
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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: Limited Potential for Groundwater Flooding to Occur	A15SW (N)	0	1	303650 168300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NE (W)	0	1	303500 167949
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A15SE (NE)	0	1	303950 168350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A15SE (NE)	0	1	304200 168350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	0	1	305150 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NW (NE)	0	1	303618 167949
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16SE (NE)	0	1	304850 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	305000 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	305050 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16NE (NE)	0	1	304750 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16NE (NE)	0	1	304900 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	304950 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16SE (NE)	0	1	304700 168550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16SE (NE)	0	1	304650 168500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	0	1	305000 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (W)	0	1	303300 167850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NE (W)	0	1	303450 168000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A15SE (NE)	0	1	304150 168450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16SW (NE)	0	1	304300 168450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16SW (NE)	0	1	304500 168450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11NW (N)	0	1	303600 168200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (NE)	0	1	303900 168200

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	A10NE (NW)	0	1	303500 168050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A11NW (N)	0	1	303600 168000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NE)	0	1	305000 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	1	1	305000 167949
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	2	1	305100 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (SW)	5	1	303450 167800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16SE (E)	14	1	304600 168300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	19	1	305200 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A16SE (E)	48	1	304650 168300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16SE (E)	83	1	304700 168300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (SW)	89	1	303350 167700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (SW)	94	1	303250 167700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	106	1	305250 168550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	115	1	305200 168850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	116	1	305250 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (E)	118	1	304700 168250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	130	1	305300 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SE (SW)	141	1	303350 167650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	144	1	305000 168900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	157	1	305300 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	175	1	305350 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A6NE (SW)	189	1	303300 167600

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	A6NE (SW)	191	1	303350 167600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6NW (SW)	206	1	303200 167600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	209	1	305200 168950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	222	1	305400 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (E)	226	1	304750 168150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SW (W)	237	1	303050 167900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	241	1	304950 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	249	1	305050 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	252	1	305100 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NE)	257	1	305200 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	263	1	305450 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NE)	271	1	305450 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	272	1	305250 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A6NW (SW)	272	1	303150 167550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	306	1	305200 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NE)	319	1	305250 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6NW (SW)	341	1	303100 167500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	352	1	305100 169100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NW (W)	364	1	302950 168000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SW (W)	380	1	302900 167850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SW (W)	382	1	302900 167750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SW (W)	385	1	302900 167900

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	A10NW (W)	393	1	302900 167949
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	402	1	305150 169150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	405	1	305200 169150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NW (W)	405	1	302900 168000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NE)	407	1	305350 169100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	415	1	305250 169150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A6NW (SW)	429	1	303100 167400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	443	1	305000 169200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6NW (SW)	452	1	303050 167400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	455	1	305200 169200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (SE)	473	1	303850 167500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6NW (SW)	478	1	302900 167500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (NW)	484	1	303000 168300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NE)	499	1	305500 169100
1	**Discharge Consents** Operator: S A Brain And Co Ltd Property Type: Public Houses & Bars Location: Green Dragon Public House, Llancadle, ., Vale Of Glamorgan, Cf62 3aq Authority: Natural Resources Wales Catchment Area: KENSON - CONF WITH WAYCOCK TO CONF WITH THAW Reference: An0383701 Permit Version: 2 Effective Date: 10th January 2013 Issued Date: 10th January 2013 Revocation Date: Not Supplied Discharge Type: Sewage And Trade Combined - Unspecified Discharge Environment: Into Land Receiving Water: Groundwater Via Infiltration System **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A15SW (N)	134	2	303785 168473

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: S A Brain And Co Ltd Property Type: Public Houses & Bars Location: Green Dragon Public House, Llancadle, ., Vale Of Glamorgan, Cf62 3aq Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0383701 Permit Version: 1 Effective Date: 29th April 2005 Issued Date: 29th April 2005 Revocation Date: 9th January 2013 Discharge Type: Sewage And Trade Combined - Unspecified Discharge Environment: Onto Land Receiving Water: To Ground **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A15SW (N)	134	2	303785 168473
2	**Discharge Consents** Operator: Blue Circle Industries Plc Property Type: Manufacture Of Cement, Lime Plaster Location: Aberthaw Works East Aberthaw, Barry, Vale Of Glamorgan, Cf62 3zr Authority: Natural Resources Wales Catchment Area: River Thaw Reference: An0045901 Permit Version: 2 Effective Date: 13th November 1991 Issued Date: 13th November 1991 Revocation Date: 27th August 1993 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Kenson **Status: Revoked and replaced by IPC Authorisation** Positional Accuracy: Located by supplier to within 10m	A6NW (SW)	258	2	303130 167580
2	**Discharge Consents** Operator: Blue Circle Industries Plc Property Type: Manufacture Of Cement, Lime Plaster Location: Aberthaw Works East Aberthaw, Barry, Vale Of Glamorgan, Cf62 3zr Authority: Natural Resources Wales Catchment Area: River Thaw Reference: An0045901 Permit Version: 1 Effective Date: 13th October 1987 Issued Date: 13th October 1987 Revocation Date: 12th November 1991 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Kenson **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A6NW (SW)	258	2	303130 167580
3	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: East Orchard Castle Cso, B4265, Nr East Orchard Castle, St Athan, Barry, Cf62 4ld Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Ae2017101 Permit Version: Not Supplied Effective Date: 29th August 2019 Issued Date: 29th August 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Thaw **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A10SW (W)	377	2	302913 167703

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: East Orchard Castle Cso St Athan, East Orchard Castle, Vale Of Glam Authority: Natural Resources Wales Catchment Area: THAW Reference: Ae2017101 Permit Version: 3 Effective Date: 31st March 2006 Issued Date: 20th March 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Thaw **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A10SW (W)	377	2	302913 167703
3	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: East Orchard Castle Cso St Athan, East Orchard Castle, Vale Of Glam Authority: Natural Resources Wales Catchment Area: THAW Reference: Ae2017101 Permit Version: 3 Effective Date: 31st March 2006 Issued Date: 20th March 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Thaw **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A10SW (W)	377	2	302913 167703
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: St Athan - East Orchard Castle Authority: Natural Resources Wales Catchment Area: River Thaw Reference: Ae2017101 Permit Version: 2 Effective Date: 31st March 2006 Issued Date: 24th March 2005 Revocation Date: 30th March 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Thaw **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (W)	438	2	302930 168130
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: St Athan - East Orchard Castle Authority: Natural Resources Wales Catchment Area: River Thaw Reference: AE2017101 Permit Version: 1 Effective Date: 18th October 1963 Issued Date: 18th October 1963 Revocation Date: 30th March 2006 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Thaw **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A10NW (W)	438	2	302930 168130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: Blue Circle Industries Plc Property Type: Manufacture Of Cement, Lime Plaster Location: Aberthaw Works West Aberthaw Barry, West Aberthaw, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: River Thaw Reference: An0045801 Permit Version: 2 Effective Date: 13th November 1991 Issued Date: 13th November 1991 Revocation Date: 27th August 1993 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Thaw **Status: Revoked and replaced by IPC Authorisation** Positional Accuracy: Located by supplier to within 10m	A6NW (SW)	480	2	303030 167380
5	**Discharge Consents** Operator: Blue Circle Industries Plc Property Type: Manufacture Of Cement, Lime Plaster Location: Aberthaw Works West Aberthaw Barry, West Aberthaw, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: River Thaw Reference: An0045801 Permit Version: 1 Effective Date: 13th October 1987 Issued Date: 13th October 1987 Revocation Date: 12th November 1991 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Thaw **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A6NW (SW)	480	2	303030 167380
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: East Aberthaw Stw East Aberthaw, Barry, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AF4027601 Permit Version: 2 Effective Date: 29th September 1987 Issued Date: 29th September 1987 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Estuary Receiving Water: Thaw **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A6NW (SW)	591	2	302980 167280
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: East Aberthaw Stw East Aberthaw, Barry, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Af4027601 Permit Version: Not Supplied Effective Date: 29th September 1987 Issued Date: 29th September 1987 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Estuary Receiving Water: Thaw **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A6NW (SW)	591	2	302980 167280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: East Aberthaw Stw East Aberthaw, Barry, Vale Of Glamorgan Authority: Natural Resources Wales Catchment Area: River Thaw Reference: Af4027601 Permit Version: 1 Effective Date: 23rd May 1978 Issued Date: 23rd May 1978 Revocation Date: 28th September 1987 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Not Supplied Receiving Water: Thaw **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A6NW (SW)	591	2	302980 167280
7	**Integrated Pollution Controls** Name: Blue Circle Industries Plc Location: Aberthaw Works, East Aberthaw, BARRY, South Glamorgan, CF62 3ZR Authority: Environment Agency, Welsh Region Permit Reference: BE2379 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A6SE (S)	765	3	303410 167035
7	**Integrated Pollution Controls** Name: Blue Circle Industries Plc Location: Aberthaw Works, BARRY, South Glamorgan, CF6 9ZR Authority: Environment Agency, Welsh Region Permit Reference: BA2679 Dated: 21st April 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A6SE (S)	766	3	303420 167035
7	**Integrated Pollution Controls** Name: Blue Circle Industries Plc Location: Aberthaw Works, East Aberthaw, Barry, South Glamorgan, CF62 3ZR Authority: Environment Agency, Welsh Region Permit Reference: Bk7439 Dated: 30th March 2001 Process Type: IPC minor (non-substantial) variation to previous variation Description: 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry **Status: Revoked - Now IPPC** Positional Accuracy: Automatically positioned to the address	A6SE (S)	770	3	303415 167030
7	**Integrated Pollution Controls** Name: Blue Circle Industries Plc Location: Aberthaw Works, East Aberthaw, Barry, South Glamorgan, CF62 3ZR Authority: Environment Agency, Welsh Region Permit Reference: Bk4545 Dated: 13th February 2001 Process Type: IPC minor (non-substantial) variation to previous variation Description: 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A6SE (S)	770	3	303415 167030
7	**Integrated Pollution Controls** Name: Blue Circle Industries Plc Location: Aberthaw Works, East Aberthaw, BARRY, South Glamorgan, CF62 3ZR Authority: Environment Agency, Welsh Region Permit Reference: AP6826 Dated: 17th January 1995 Process Type: IPC minor (non-substantial) variation to previous variation Description: 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A6SE (S)	770	3	303414 167030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Integrated Pollution Controls** Name: Blue Circle Industries Plc Location: Aberthaw Works, East Aberthaw, BARRY, South Glamorgan, CF62 3ZR Authority: Environment Agency, Welsh Region Permit Reference: BH7911 Dated: 28th January 2000 Process Type: IPC minor (non-substantial) variation to previous variation Description: 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A6SE (S)	771	3	303419 167030
7	**Integrated Pollution Controls** Name: Blue Circle Industries Plc Location: Aberthaw Works, BARRY, South Glamorgan, CF62 3ZR Authority: Environment Agency, Welsh Region Permit Reference: BF2013 Dated: 29th January 1999 Process Type: IPC minor (non-substantial) variation to previous variation Description: 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Manually positioned to the address or location	A6SE (S)	771	3	303414 167029
7	**Integrated Pollution Controls** Name: Blue Circle Industries Plc Location: Aberthaw Works, East Aberthaw, BARRY, South Glamorgan, CF62 3ZR Authority: Environment Agency, Welsh Region Permit Reference: AI0713 Dated: 27th August 1993 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A6SE (S)	771	3	303415 167030
7	**Integrated Pollution Controls** Name: Blue Circle Industries Plc Location: Aberthaw Works, BARRY, South Glamorgan, CF62 3ZR Authority: Environment Agency, Welsh Region Permit Reference: BF9131 Dated: 16th July 1999 Process Type: IPC minor (non-substantial) variation to previous variation Description: 3.1 A (A) Cement/Lime manufacture and associated processes within the Mineral Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A6SE (S)	776	3	303419 167025
8	**Integrated Pollution Prevention And Control** Name: Lafarge Cement Uk Plc Location: Aberthaw Cement Works, Aberthaw Works, East Aberthaw, Barry, South Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: YP3736LY Original Permit Ref: BI3986id Effective Date: 12th July 2006 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Manually positioned within the geographical locality Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: N Activity Code: 3.1 A(1) (A) Activity Description: Cement And Lime; Producing Etc Cement Clinker Primary Activity: Y	A6NE (S)	467	2	303399 167334

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Integrated Pollution Prevention And Control** Name: Aberthaw Works Location: Aberthaw Cement Works, Aberthaw Works, East Aberthaw, Barry, South Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: Bl3986id Original Permit Ref: Not Supplied Effective Date: 21st August 2024 **Status: Effective** Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 3.1 Part B b) Activity Description: Not Supplied Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Not Supplied Primary Activity: N Activity Code: 3.1 PART A (1) A) Activity Description: Not Supplied Primary Activity: Y Activity Code: 3.1 PART A (2) A) Activity Description: Not Supplied Primary Activity: N Activity Code: 3.1 Part B a) Activity Description: Not Supplied Primary Activity: N	A6SE (S)	770	2	303415 167030
9	**Integrated Pollution Prevention And Control** Name: Aberthaw Quarry Ash Disposal Site Epr/Bp3339bh Location: Aberthaw Quarry Ash Disposal Site, Lafarge Cement Works, East Aberthaw, Barry, Vale Of Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: BP3339BH Original Permit Ref: Not Supplied Effective Date: 26th October 2012 **Status: Effective** Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Manually positioned to the address or location Activity Code: 5.2 A(1) (A) Activity Description: Not Supplied Primary Activity: Y Activity Code: 5.2 A(1) (A) Activity Description: Not Supplied Primary Activity: Y	A6SE (S)	770	2	303414 167030
9	**Integrated Pollution Prevention And Control** Name: Lafarge Cement Uk Plc Location: Aberthaw Cement Works, Aberthaw Works, East Aberthaw,, BARRY, South Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: Jp3134sy Original Permit Ref: Bl3986id Effective Date: 8th December 2005 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 10m Activity Code: 3.1 A(1) (A) Activity Description: Cement And Lime; Producing Etc Cement Clinker Primary Activity: Y Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: N	A6SE (S)	770	2	303410 167030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Integrated Pollution Prevention And Control** Name: Lafarge Cement Uk Plc Location: Aberthaw Cement Works, Aberthaw Works, East Aberthaw, Barry, South Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: Np3437ph Original Permit Ref: Bl3986id Effective Date: 10th December 2004 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Substantial Positional Accuracy: Automatically positioned to the address Activity Code: 3.1 A(1) (A) Activity Description: Cement And Lime; Producing Etc Cement Clinker Primary Activity: Y Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: N	A6SE (S)	770	2	303415 167030
9	**Integrated Pollution Prevention And Control** Name: Lafarge Tarmac Cement And Lime Limited Location: Aberthaw Cement Works Ea/Epr/Bl3986id/V009, Aberthaw Works, East Aberthaw,, Barry, Vale Of Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: DP3431VA Original Permit Ref: Bl3986id Effective Date: 22nd December 2014 **Status: Effective** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 3.1 A(1) (A) Activity Description: Cement And Lime; Producing Etc Cement Clinker Primary Activity: Y Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: N	A6SE (S)	771	2	303415 167030
9	**Integrated Pollution Prevention And Control** Name: Lafarge Tarmac Cement And Lime Limited Location: Aberthaw Works Nrw/Epr/Bl3986id/V010, Aberthaw Works, East Aberthaw,, Barry, Vale Of Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: GP3839EM Original Permit Ref: Bl3986id Effective Date: 6th November 2013 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: N Activity Code: 3.1 A(1) (A) Activity Description: Cement And Lime; Producing Etc Cement Clinker Primary Activity: Y	A6SE (S)	771	2	303415 167030
9	**Integrated Pollution Prevention And Control** Name: Lafarge Cement Uk Plc Location: Aberthaw Cement Works Ea/Epr/Bl3986id/V009, Aberthaw Works, East Aberthaw,, Barry, Vale Of Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: AP3032CN Original Permit Ref: Bl3986id Effective Date: 15th May 2012 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 3.1 A(1) (A) Activity Description: Cement And Lime; Producing Etc Cement Clinker Primary Activity: Y Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: N	A6SE (S)	771	2	303415 167030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Integrated Pollution Prevention And Control** Name: Lafarge Cement Uk Plc Location: Aberthaw Cement Works Ea/Epr/Bl3986id/V007, Aberthaw Works, East Aberthaw,, Barry, Vale Of Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: AP3638FW Original Permit Ref: Bl3986id Effective Date: 30th August 2011 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 3.1 A(1) (A) Activity Description: Cement And Lime; Producing Etc Cement Clinker Primary Activity: Y Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: N	A6SE (S)	771	2	303415 167030
9	**Integrated Pollution Prevention And Control** Name: Lafarge Cement Uk Plc Location: Aberthaw Cement Works Ea/Epr/Bl3986id/V006, Aberthaw Works, East Aberthaw,, Barry, Vale Of Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: RP3534TN Original Permit Ref: Bl3986id Effective Date: 2nd September 2010 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: N Activity Code: 3.1 A(1) (A) Activity Description: Cement And Lime; Producing Etc Cement Clinker Primary Activity: Y	A6SE (S)	771	2	303415 167030
9	**Integrated Pollution Prevention And Control** Name: Lafarge Cement Uk Plc Location: Aberthaw Cement Works Ea/Epr/Bl3986id/V005, Aberthaw Works, East Aberthaw,, BARRY, South Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: ZP3137XP Original Permit Ref: Bl3986id Effective Date: 19th September 2008 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 3.1 A(1) (A) Activity Description: Cement And Lime; Producing Etc Cement Clinker Primary Activity: Y Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: N	A6SE (S)	771	2	303415 167030
10	**Integrated Pollution Prevention And Control** Name: Rwe Generation Uk Plc Location: Aberthaw Quarry Ash Disposal Site Ea/Epr/Bp3339bh/V002, Aberthaw Quarry, Lafarge Cement Works,East Aberthaw,, Barry, Vale Of Glamorgan, CF62 3ZR Authority: Natural Resources Wales Permit Reference: NP3433ZC Original Permit Ref: Bp3339bh Effective Date: 26th October 2012 **Status:** **Effective** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A7SE (SE)	797	2	304000 167200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Local Authority Pollution Prevention and Controls** Name: Four Cross Service Station Location: Gileston Road, St Athan, Barry, South Glamorgan, CF62 4JA Authority: Vale Of Glamorgan County Borough Council, Environmental Health Department Permit Reference: VOG/28 Dated: 22nd December 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A5NW (SW)	949	4	302396 167444
	Nearest Surface Water Feature	A11NW (NE)	0	-	303817 168223
12	**Pollution Incidents to Controlled Waters** Property Type: Warehouses Location: Aberthaw Cement, EAST ABERTHAW Authority: Environment Agency, Welsh Region Pollutant: Organic Wastes: Vegetable Washings Note: Accidental Spillage/Leakage Incident Date: 20th February 1991 Incident Reference: 100 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A6NW (SW)	410	3	303050 167450
13	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: FONMON Authority: Environment Agency, Welsh Region Pollutant: Algae Note: Tributary River Thaw (Fanman; Pond;Rhoose); Natural Occurrence Incident Date: 16th July 1997 Incident Reference: 33072 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (E)	684	3	304800 167700
14	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Blocked Sewer Incident Date: 2nd September 1996 Incident Reference: 29799 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (W)	897	3	302500 168300
15	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 29th September 2001 Incident Reference: 33756 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified	A6NW (SW)	414	2	303030 167460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Water Abstractions** Operator: Lafarge Tarmac Cement And Lime Limited Licence Number: 21/58/21/0004 Permit Version: 104 Location: River Kenson At Aberthaw Authority: Natural Resources Wales Abstraction: Mineral Products: Evaporative Cooling 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: 23rd October 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SW)	54	2	303320 167740
16	**Water Abstractions** Operator: Lafarge Tarmac Cement And Lime Limited Licence Number: 21/58/21/0004 Permit Version: 104 Location: River Kenson At Aberthaw Authority: Natural Resources Wales Abstraction: Mineral Products: Transfer Between Sources 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: 23rd October 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SW)	54	2	303320 167740
16	**Water Abstractions** Operator: Lafarge Cement Uk Limited Licence Number: 21/58/21/0004 Permit Version: 103 Location: River Kenson At Aberthaw Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Transfer Between Sources 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: 13th September 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SW)	54	3	303320 167740
16	**Water Abstractions** Operator: Lafarge Cement Uk Limited Licence Number: 21/58/21/0004 Permit Version: 103 Location: River Kenson At Aberthaw Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Evaporative Cooling 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: 13th September 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SW)	54	3	303320 167740

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Water Abstractions** Operator: Lafarge Cement Uk Plc Licence Number: 21/58/21/0004 Permit Version: 102 Location: River Kenson At Aberthaw Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Evaporative Cooling 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: 14th February 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SW)	54	3	303320 167740
16	**Water Abstractions** Operator: Lafarge Cement Uk Plc Licence Number: 21/58/21/0004 Permit Version: 102 Location: River Kenson At Aberthaw Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Transfer Between Sources 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: 14th February 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SW)	54	3	303320 167740
16	**Water Abstractions** Operator: Blue Circle Industries Plc Licence Number: 21/58/21/0004 Permit Version: 101 Location: River Kenson At Aberthaw Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Transfer Between Sources 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 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SW)	54	3	303320 167740
16	**Water Abstractions** Operator: Blue Circle Industries Plc Licence Number: 21/58/21/0004 Permit Version: 100 Location: River Kenson At Aberthaw Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: R.Kenson Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10SE (SW)	54	3	303320 167740

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Water Abstractions** Operator: Tarmac Cement And Lime Limited Licence Number: 21/58/21/0004 Permit Version: Not Supplied Location: River Kenson, Aberthaw Cement Works, East Aberthaw, Barry, Vale Of Glamorgan, Cf62 32r Authority: Natural Resources Wales Abstraction: Mineral Products: Evaporative Cooling Abstraction Type: Water may be abstracted from any point within an area 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	A10SE (SW)	54	2	303320 167740
16	**Water Abstractions** Operator: Tarmac Cement Limited Licence Number: 21/58/21/0004 Permit Version: Not Supplied Location: River Kenson, Aberthaw Cement Works, East Aberthaw, Barry, Cf62 32r Authority: Natural Resources Wales Abstraction: Mineral Products: Transfer Between Sources Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): 0 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	A10SE (SW)	54	2	303320 167740
16	**Water Abstractions** Operator: Tarmac Cement Limited Licence Number: 21/58/21/0004 Permit Version: Not Supplied Location: River Kenson, Aberthaw Cement Works, East Aberthaw, Barry, Cf62 32r Authority: Natural Resources Wales Abstraction: Mineral Products: Evaporative Cooling Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 1364 Yearly Rate (m3): 499161 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	A10SE (SW)	54	2	303320 167740
17	**Water Abstractions** Operator: Blue Circle Industries Plc Licence Number: 21/58/21/0016 Permit Version: 101 Location: River Kenson & Quarry Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Evaporative Cooling 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: 18th May 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NW (SW)	221	3	303210 167580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Water Abstractions** Operator: Blue Circle Industries Plc Licence Number: 21/58/21/0016 Permit Version: 100 Location: River Kenson & Quarry Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: R.Kenson & Quarry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6NW (SW)	221	3	303210 167580
	Water Abstractions Operator: Rwe Npower Plc Licence Number: 21/58/21/0005 Permit Version: 103 Location: R.Thaw Authority: Natural Resources Wales Abstraction: Production of Energy: Dust suppression Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Aberthaw Power Station Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th July 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1949	2	302940 165870
	Water Abstractions Operator: Innogy Plc Licence Number: 21/58/21/0005 Permit Version: 102 Location: R.Thaw Authority: Environment Agency, Welsh Region Abstraction: Production of Energy: Dust suppression Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Aberthaw Power Station Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd October 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1949	3	302940 165870
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A11NW (NW)	0	2	303596 168000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A16SW (NE)	0	2	304551 168495
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A11NE (NE)	0	2	304000 168272
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial 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: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NE)	0	2	305000 168606
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A11NW (NW)	0	2	303586 167993

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A11NE (E)	0	2	304000 168000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A15SE (NE)	0	2	304000 168389
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NE)	0	2	305000 168728
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(E)	0	2	305000 168000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A10NE (W)	0	2	303395 168000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A11NW (NE)	0	2	303618 167949
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A11NW (N)	0	2	303618 168000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A10NE (NW)	0	2	303501 168080
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(E)	0	2	305000 167949
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11NW (NE)	0	2	303618 167949
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11NW (NW)	0	2	303586 167993
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A16SW (NE)	0	2	304551 168495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(NE)	0	2	305000 168606
	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	A16SW (NE)	0	2	304525 168476
	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	A15SE (NE)	0	2	303955 168380
	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	A15SE (NE)	0	2	303995 168406
	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	A16SW (NE)	0	2	304426 168435
	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	A10SE (SW)	0	2	303520 167860
	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	A15SW (NE)	0	2	303805 168324
	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	A15SE (NE)	0	2	303900 168339
	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	A15SE (NE)	0	2	303920 168353
	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	A15SW (NE)	0	2	303865 168318
	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	A15SW (NE)	0	2	303835 168319
	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	A10SE (SW)	0	2	303505 167867
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304295 168475
	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	A16SW (NE)	0	2	304310 168476
	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	A15SE (NE)	0	2	304035 168428
	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	A10SE (SW)	0	2	303510 167865
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	0	2	303775 168335

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304188 168480
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303795 168325
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304135 168470
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303949 168375
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304265 168480
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304027 168425
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304011 168415
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304435 168430
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303970 168390
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304420 168435
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303918 168350
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303923 168355
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303963 168385
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303897 168335
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303515 167860
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303872 168320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304245 168485
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304315 168475
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303862 168317
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304050 168435
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304071 168445
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303805 168322
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304529 168485
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304400 168445
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304064 168440
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304004 168410
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304153 168475
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304385 168455
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303904 168340
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303889 168330
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304525 168475
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303790 168330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304380 168460
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303506 167865
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303995 168405
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304020 168420
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303930 168360
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303522 167855
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303485 167875
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303419 167815
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303865 168317
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10NE (N)	0	2	303559 168166
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	0	2	303499 168072
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303522 167855
	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	A11NE (NE)	0	2	303967 168235
	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	A15SE (NE)	0	2	304020 168421
	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	A15SW (NE)	0	2	303890 168331
	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	A16SW (NE)	0	2	304256 168485

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A10NE (NW)	0	2	303512 168086
	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	A16SW (NE)	0	2	304440 168432
	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	A10SE (SW)	0	2	303535 167850
	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	A15SW (NE)	0	2	303790 168331
	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	A16SW (NE)	0	2	304381 168460
	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	A15SE (NE)	0	2	304145 168474
	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	A15SE (NE)	0	2	304005 168412
	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	A15SE (NE)	0	2	304065 168442
	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	A15SE (NE)	0	2	303925 168358
	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	A15SW (NE)	0	2	303793 168328
	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	A15SE (NE)	0	2	303965 168388
	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	A15SW (N)	0	2	303685 168336
	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	A16SW (NE)	0	2	304320 168476
	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	A16SE (NE)	0	2	304594 168469
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A11NW (NW)	0	2	303601 167969
	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	A10SE (SW)	0	2	303425 167814

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A15SE (NE)	0	2	304200 168482
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A11NW (NE)	0	2	303618 167949
	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	A15SE (NE)	0	2	304155 168476
	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	A15SE (NE)	0	2	303975 168394
	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	A15SE (NE)	0	2	303930 168361
	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	A16SW (NE)	0	2	304402 168445
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303455 167830
	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	A15SW (NE)	0	2	303875 168322
	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	A16SW (NE)	0	2	304388 168455
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303807 168322
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303840 168316
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A11NW (NW)	0	2	303610 167965
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A11NW (NE)	0	2	303702 168125
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303461 167837
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A11NW (NE)	0	2	303691 168090
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303831 168312

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303505 167870
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303821 168316
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303475 167880
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (NW)	0	2	303513 168086
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303845 168314
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (NW)	0	2	303525 168100
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303855 168314
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303811 168320
	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	A15SE (NE)	0	2	303905 168342
	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	A15SE (NE)	0	2	304055 168436
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303493 167870
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303815 168315
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A11NW (NE)	0	2	303700 168118
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303805 168320
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303859 168315
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303480 167875

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303840 168315
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303851 168315
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303467 167880
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303825 168315
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A11NW (NE)	0	2	303690 168090
	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	A16SW (NE)	0	2	304273 168480
	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	A15SE (NE)	0	2	304075 168446
	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	A15SE (NE)	0	2	304015 168418
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	1	2	303519 168094
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	2	2	303533 168112
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	2	2	303527 168104
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (NW)	2	2	303530 168109
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	3	2	303405 168015
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	5	2	303390 168005
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	5	2	303395 168010
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (N)	5	2	303553 168146

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (W)	5	2	303350 167970
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	6	2	303445 168045
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	6	2	303418 167791
	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	A10NE (W)	6	2	303418 168030
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (W)	6	2	303325 167950
	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	A10NE (W)	6	2	303394 168010
	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	A10NE (W)	6	2	303399 168015
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	7	2	303370 167990
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	7	2	303420 168030
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	7	2	303320 167949
	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	A10NE (W)	7	2	303387 168005
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	7	2	303323 167950
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (W)	7	2	303360 167982
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (W)	7	2	303335 167960
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (W)	7	2	303320 167946
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	8	2	303325 167953

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	8	2	303435 168040
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	8	2	303450 168050
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	8	2	303380 168000
	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	A10NE (NW)	8	2	303441 168045
	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	A10SE (W)	8	2	303279 167885
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	8	2	303326 167954
	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	A10NE (W)	8	2	303368 167990
	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	A10NE (W)	8	2	303380 168000
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A10NE (W)	8	2	303350 167975
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (W)	8	2	303334 167960
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (W)	8	2	303346 167970
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (W)	8	2	303339 167965
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A10NE (W)	8	2	303340 167965
	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	A10NE (W)	9	2	303322 167950
	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	A10NE (NW)	9	2	303423 168035
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	9	2	303425 168035

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	9	2	303455 168055
	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	A10NE (NW)	9	2	303432 168040
	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	A10NE (NW)	9	2	303455 168055
	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	A10NE (W)	9	2	303331 167960
	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	A10NE (NW)	9	2	303447 168050
	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	A10NE (W)	10	2	303317 167945
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (N)	11	2	303580 168260
	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	A11NW (N)	11	2	303580 168261
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (N)	12	2	303585 168265
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (W)	14	2	303290 167910
	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	A11NW (N)	14	2	303585 168268
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (W)	15	2	303305 167936
	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	A10SE (W)	15	2	303305 167935
	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	A10SE (W)	15	2	303285 167900
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (W)	16	2	303280 167889
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (W)	16	2	303285 167902

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	16	2	303420 167790
	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	A10SE (W)	16	2	303287 167905
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (W)	17	2	303295 167922
	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	A10SE (W)	17	2	303295 167920
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	18	2	303433 167781
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	22	2	303629 168305
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	22	2	303673 168330
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	22	2	303685 168335
	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	A15SW (N)	22	2	303675 168332
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	23	2	303661 168325
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	23	2	303643 168315
	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	A15SW (N)	23	2	303665 168328
	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	A15SW (N)	23	2	303645 168316
	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	A15SW (N)	23	2	303630 168308
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	27	2	303265 167768
	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	A10SE (SW)	29	2	303265 167765

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	39	2	303260 167756
	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	A10SE (SW)	41	2	303259 167755
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	49	2	303406 167755
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10SE (SW)	50	2	303410 167755
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	63	2	303230 167752
	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	A10SE (SW)	65	2	303225 167755
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	71	2	303220 167752
	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	A10SW (SW)	74	2	303215 167755
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	80	2	303210 167752
	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	A10SW (SW)	83	2	303208 167750
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	85	2	303205 167750
	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	A10SE (SW)	86	2	303351 167663
	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	A10SW (SW)	89	2	303200 167750
	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	A10SE (SW)	90	2	303425 167715
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	184	2	303100 167751
	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	A10SW (W)	185	2	303100 167750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A10SW (SW)	188	2	303101 167735
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	190	2	303095 167748
	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	A6NE (SW)	198	2	303245 167595
	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	A10SW (W)	199	2	303087 167745
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NE (SW)	200	2	303255 167592
	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	A6NE (SW)	200	2	303235 167595
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NE (SW)	202	2	303240 167592
	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	A10SW (SW)	204	2	303090 167715
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	206	2	303080 167745
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	207	2	303086 167720
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NW (SW)	209	2	303215 167590
	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	A6NW (SW)	211	2	303212 167590
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NW (SW)	215	2	303197 167590
	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	A10SW (W)	221	2	303060 167775
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	225	2	303056 167781
	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	A10SW (W)	225	2	303055 167790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	226	2	303056 167763
	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	A10SW (W)	227	2	303055 167761
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	229	2	303052 167793
	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	A10SW (W)	230	2	303050 167805
	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	A6NW (SW)	231	2	303164 167590
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NW (SW)	233	2	303159 167590
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Models and Fluvial Events Boundary Accuracy: As Supplied	A10NW (W)	234	2	303047 167945
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	235	2	303046 167807
	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	A10SW (W)	236	2	303045 167820
	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	A10SW (SW)	238	2	303095 167640
	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	A10NW (W)	240	2	303065 167950
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	241	2	303091 167640
	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	A10NW (W)	244	2	303070 167985
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A10NW (W)	246	2	303066 167987
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	247	2	303092 167630
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NW (W)	247	2	303062 167963

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A10SW (SW)	248	2	303095 167625
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	249	2	303036 167835
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (NE)	0	2	303705 168139
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303810 168315
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303874 168320
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303825 168310
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303836 168310
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303850 168310
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303923 168355
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303932 168360
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303937 168365
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303944 168370
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303951 168375
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303958 168380
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303963 168385
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304157 168475

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: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304185 168475
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304196 168480
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304250 168480
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304087 168450
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304097 168455
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304110 168460
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303911 168345
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303918 168350
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304121 168465
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304375 168465
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304370 168470
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304137 168470
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304285 168475
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304365 168475
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303897 168335
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (N)	0	2	303615 167985

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: Tidal Models Boundary Accuracy: As Supplied	A11NW (NE)	0	2	303710 168172
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303883 168325
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303800 168320
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (NE)	0	2	303891 168330
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	0	2	303765 168330
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	0	2	303755 168330
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	0	2	303735 168335
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304430 168430
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303478 167875
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303465 167880
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303489 167870
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303987 168400
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303513 167860
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	0	2	303504 167865
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (NE)	0	2	303690 168092
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (NE)	0	2	303695 168103

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: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303995 168405
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304006 168410
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304011 168415
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304022 168420
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304050 168430
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304040 168430
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303972 168390
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	303979 168395
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304066 168440
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304395 168445
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304390 168450
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (NE)	0	2	303700 168122
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SE (NE)	0	2	304053 168435
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304405 168440
	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	A11NW (NW)	0	2	303605 167965
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A16SW (NE)	0	2	304401 168387

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/Tidal Models Boundary Accuracy: As Supplied	A11NW (NW)	0	2	303598 167968
	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	A10SE (SW)	0	2	303520 167860
	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	A10SE (SW)	0	2	303510 167865
	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	A10SE (SW)	0	2	303490 167870
	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	A10SE (SW)	0	2	303480 167875
	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	A10SE (SW)	0	2	303470 167880
	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	A11NW (N)	0	2	303618 167985
	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	A11NW (NE)	0	2	303692 168095
	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	A11NW (NE)	0	2	303696 168105
	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	A11NW (NE)	0	2	303702 168125
	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	A10NE (NW)	0	2	303513 168084
	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	A11NW (NE)	0	2	303706 168145
	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	A15SW (NE)	0	2	303833 168310
	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	A15SW (NE)	0	2	303825 168314
	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	A15SW (NE)	0	2	303845 168314
	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	A15SW (NE)	0	2	303809 168320

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	A15SW (NE)	0	2	303865 168318
	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	A15SW (NE)	0	2	303880 168324
	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	A15SW (NE)	0	2	303885 168328
	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	A15SW (N)	0	2	303763 168334
	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	A15SW (NE)	0	2	303785 168334
	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	A15SW (NE)	0	2	303895 168334
	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	A15SE (NE)	0	2	303905 168342
	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	A15SE (NE)	0	2	303915 168348
	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	A15SE (NE)	0	2	303920 168353
	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	A15SE (NE)	0	2	303930 168360
	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	A15SE (NE)	0	2	303935 168364
	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	A15SE (NE)	0	2	303940 168368
	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	A15SE (NE)	0	2	303945 168372
	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	A15SE (NE)	0	2	303955 168380
	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	A15SE (NE)	0	2	303960 168383
	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	A15SE (NE)	0	2	303970 168390

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	A15SE (NE)	0	2	303975 168392
	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	A15SE (NE)	0	2	303985 168400
	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	A15SE (NE)	0	2	303990 168402
	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	A15SE (NE)	0	2	304000 168408
	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	A15SE (NE)	0	2	304010 168415
	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	A15SE (NE)	0	2	304015 168418
	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	A15SE (NE)	0	2	304035 168428
	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	A15SE (NE)	0	2	304045 168430
	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	A15SE (NE)	0	2	304050 168431
	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	A15SE (NE)	0	2	304065 168440
	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	A16SW (NE)	0	2	304407 168440
	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	A16SW (NE)	0	2	304400 168445
	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	A15SE (NE)	0	2	304075 168446
	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	A16SW (NE)	0	2	304391 168450
	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	A15SE (NE)	0	2	304090 168452
	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	A15SE (NE)	0	2	304100 168457

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	A15SE (NE)	0	2	304110 168461
	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	A16SW (NE)	0	2	304380 168459
	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	A15SE (NE)	0	2	304125 168466
	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	A16SW (NE)	0	2	304371 168470
	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	A15SE (NE)	0	2	304155 168474
	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	A16SW (NE)	0	2	304366 168475
	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	A15SE (NE)	0	2	304180 168479
	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	A15SE (NE)	0	2	304190 168480
	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	A16SW (NE)	0	2	304269 168480
	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	A16SW (NE)	0	2	304330 168477
	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	A11NW (NE)	0	2	303712 168175
	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	A16SW (NE)	0	2	304235 168482
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	1	2	303505 168080
	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	A10NE (NW)	2	2	303503 168080
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	3	2	303380 167995
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	3	2	303405 168015

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: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	4	2	303385 168000
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	4	2	303410 168020
	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	A15SW (N)	4	2	303745 168340
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	5	2	303350 167970
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	5	2	303355 167975
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	5	2	303390 168005
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	5	2	303395 168010
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	5	2	303495 168075
	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	A10NE (W)	5	2	303408 168020
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	6	2	303360 167980
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	6	2	303365 167985
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	6	2	303470 168060
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	6	2	303485 168070
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	6	2	303445 168045
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	6	2	303325 167950
	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	A10NE (W)	6	2	303394 168010

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	A10NE (W)	6	2	303399 168015
	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	A10SE (W)	6	2	303275 167865
	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	A10NE (NW)	6	2	303484 168070
	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	A10NE (NW)	6	2	303492 168074
	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	A11NW (N)	6	2	303560 168173
	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	A10NE (W)	6	2	303418 168030
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	7	2	303420 168030
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (N)	7	2	303560 168170
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	7	2	303460 168055
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	7	2	303320 167949
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	7	2	303330 167955
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	7	2	303335 167960
	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	A10NE (W)	7	2	303346 167970
	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	A10NE (W)	7	2	303382 168000
	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	A10NE (W)	7	2	303387 168005
	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	A10NE (W)	7	2	303329 167955

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	A10NE (W)	7	2	303353 167975
	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	A10NE (W)	7	2	303358 167980
	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	A10NE (NW)	7	2	303443 168045
	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	A10NE (NW)	7	2	303466 168060
	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	A15SW (N)	7	2	303735 168342
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	8	2	303340 167965
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	8	2	303450 168050
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	8	2	303435 168040
	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	A10NE (W)	8	2	303363 167985
	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	A10NE (W)	8	2	303368 167990
	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	A10NE (W)	8	2	303334 167960
	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	A10NE (W)	8	2	303339 167965
	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	A10NE (NW)	8	2	303425 168035
	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	A10NE (NW)	8	2	303434 168040
	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	A10NE (NW)	8	2	303449 168050
	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	A10NE (NW)	8	2	303457 168055

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: Tidal Models Boundary Accuracy: As Supplied	A10NE (NW)	9	2	303425 168035
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (N)	9	2	303580 168255
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	9	2	303315 167944
	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	A10NE (W)	9	2	303322 167950
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	10	2	303710 168340
	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	A10NE (W)	10	2	303317 167945
	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	A11NW (N)	10	2	303580 168259
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	11	2	303723 168345
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10NE (W)	11	2	303310 167939
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (N)	12	2	303585 168265
	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	A10NE (W)	12	2	303312 167940
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	13	2	303687 168335
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (N)	13	2	303600 168275
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (W)	13	2	303305 167934
	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	A15SW (N)	13	2	303720 168344
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (W)	14	2	303295 167920

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: Tidal Models Boundary Accuracy: As Supplied	A10SE (W)	14	2	303290 167911
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NW (N)	14	2	303590 168270
	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	A10SE (W)	14	2	303303 167930
	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	A10SE (W)	14	2	303307 167935
	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	A11NW (N)	14	2	303585 168268
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (W)	15	2	303280 167887
	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	A10SE (W)	15	2	303285 167900
	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	A15SW (N)	15	2	303705 168340
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (W)	16	2	303285 167902
	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	A10SE (W)	16	2	303287 167905
	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	A10SE (W)	16	2	303293 167915
	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	A11NW (N)	16	2	303590 168273
	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	A15SW (N)	16	2	303601 168280
	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	A15SW (N)	16	2	303605 168286
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (W)	17	2	303275 167870
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	17	2	303615 168290

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	A10SE (W)	17	2	303278 167880
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	18	2	303675 168330
	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	A15SW (N)	18	2	303617 168292
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	19	2	303605 168285
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	19	2	303619 168295
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	20	2	303663 168325
	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	A15SW (N)	20	2	303620 168298
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	21	2	303656 168320
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	21	2	303643 168315
	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	A15SW (N)	21	2	303685 168334
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A15SW (N)	22	2	303629 168305
	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	A15SW (N)	22	2	303630 168307
	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	A15SW (N)	22	2	303650 168319
	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	A15SW (N)	22	2	303670 168329
	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	A15SW (N)	23	2	303660 168324
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	32	2	303265 167762

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	A10SE (SW)	33	2	303267 167757
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	51	2	303406 167753
	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	A10SE (SW)	55	2	303410 167750
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SE (SW)	59	2	303237 167750
	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	A10SW (SW)	77	2	303214 167750
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	86	2	303205 167748
	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	A10SE (SW)	86	2	303369 167683
	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	A10SW (SW)	89	2	303200 167750
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	109	2	303180 167748
	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	A10SW (SW)	112	2	303175 167750
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	123	2	303165 167748
	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	A10SW (SW)	126	2	303160 167750
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	133	2	303155 167746
	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	A10SW (SW)	136	2	303150 167750
	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	A10SW (W)	182	2	303105 167741
	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	A10SE (SW)	184	2	303290 167605

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: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	185	2	303100 167746
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NE (SW)	192	2	303300 167599
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	195	2	303090 167745
	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	A6NE (SW)	195	2	303260 167595
	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	A10SW (W)	195	2	303091 167745
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NE (SW)	199	2	303261 167592
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NE (SW)	200	2	303255 167592
	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	A6NE (SW)	203	2	303244 167590
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	204	2	303086 167727
	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	A10SW (SW)	204	2	303090 167715
	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	A6NE (SW)	206	2	303230 167590
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NE (SW)	207	2	303225 167590
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NE (SW)	207	2	303235 167588
	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	A6NW (SW)	208	2	303220 167590
	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	A10SW (SW)	210	2	303090 167700
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	212	2	303086 167705

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	A10SW (W)	212	2	303075 167740
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	217	2	303070 167737
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NW (SW)	217	2	303200 167588
	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	A6NW (SW)	217	2	303195 167590
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NW (SW)	220	2	303187 167590
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	221	2	303066 167739
	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	A10SW (W)	221	2	303066 167735
	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	A10SW (W)	221	2	303060 167775
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	225	2	303056 167781
	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	A6NW (SW)	225	2	303176 167590
	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	A10SW (W)	225	2	303055 167785
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	227	2	303054 167785
	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	A10SW (W)	230	2	303050 167800
	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	A10SW (W)	232	2	303056 167730
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	233	2	303055 167730
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	233	2	303051 167750

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: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	233	2	303048 167801
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A6NW (SW)	234	2	303157 167590
	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	A10SW (W)	234	2	303050 167750
	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	A10SW (W)	236	2	303045 167820
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	239	2	303050 167725
	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	A10SW (W)	239	2	303051 167725
	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	A10NW (W)	241	2	303070 167985
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (SW)	247	2	303092 167630
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A10SW (W)	248	2	303036 167833
	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	A10SW (SW)	248	2	303095 167625
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 455.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NE (NW)	0	5	303523 168073
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 648.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A11NW (NW)	0	5	303592 167980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A11NW (N)	0	5	303560 168105
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 275.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A11NW (N)	0	5	303563 168108
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 145.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A11NW (N)	0	5	303699 168184
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A15SW (N)	0	5	303692 168321
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 80.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A11NW (N)	0	5	303699 168184
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 111.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A11NW (NE)	0	5	303766 168214
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A11NW (NE)	0	5	303766 168214
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 838.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A11NW (NE)	0	5	303797 168203
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A11NW (NE)	0	5	303797 168203

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A11NW (NE)	0	5	303814 168221
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 292.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A11NW (NE)	0	5	303817 168224
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A15SW (NE)	0	5	303819 168309
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A15SE (NE)	0	5	304030 168414
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 82.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A16SW (NE)	0	5	304513 168422
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A16SW (NE)	0	5	304513 168422
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ffwl-y-mwn Brook Catchment Name: Thaw Cadoxton Primacy: 1	A16SW (NE)	0	5	304518 168431
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 551.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A16SW (NE)	0	5	304518 168431
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 373.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ffwl-y-mwn Brook Catchment Name: Thaw Cadoxton Primacy: 1	A16SW (NE)	0	5	304539 168434

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**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: Thaw Cadoxton Primacy: 1	A10SE (SW)	5	5	303324 167746
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SE (SW)	48	5	303395 167733
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 162.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SE (SW)	60	5	303327 167728
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A10SE (SW)	70	5	303395 167733
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SE (SW)	72	5	303354 167726
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A10SE (SW)	89	5	303389 167681
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	108	5	303201 167715
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 155.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	110	5	303201 167712
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 242.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A10SE (SW)	124	5	303391 167678

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	207	5	303083 167726
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	224	5	303191 167584
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	224	5	303191 167584
50	**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: Thaw Cadoxton Primacy: 1	A6NW (SW)	235	5	303194 167570
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	235	5	303194 167570
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	242	5	303304 167549
53	**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: Thaw Cadoxton Primacy: 1	A6NE (SW)	242	5	303305 167549
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 93.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (W)	251	5	303032 167752
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	253	5	303125 167590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	253	5	303125 167590
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 276.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ffwl-y-mwn Brook Catchment Name: Thaw Cadoxton Primacy: 1	A12NE (E)	255	5	304807 168147
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A12NE (E)	255	5	304806 168208
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	256	5	303134 167579
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	256	5	303134 167579
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	258	5	303132 167578
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 164.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A10SW (W)	261	5	303023 167835
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	267	5	303306 167523
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	268	5	303307 167523

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 182.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	269	5	303050 167996
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	269	5	303051 167997
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	271	5	303306 167520
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	272	5	303308 167519
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	276	5	303027 167677
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 135.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (W)	285	5	303005 167874
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	285	5	303036 168002
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	285	5	303036 168002
73	**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: Thaw Cadoxton Primacy: 1	A10SW (SW)	286	5	303019 167672

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 64.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	290	5	303007 167690
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	292	5	303309 167499
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	292	5	303309 167499
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 87.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	293	5	303333 167501
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (W)	295	5	302987 167753
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	296	5	303310 167496
80	**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: Thaw Cadoxton Primacy: 1	A6NE (SW)	296	5	303310 167496
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	299	5	303290 167490
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	299	5	303318 167493

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	300	5	303315 167491
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	304	5	303292 167486
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 147.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (W)	304	5	302987 167883
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (W)	308	5	302979 167723
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	309	5	303289 167480
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	310	5	303011 168009
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	311	5	303290 167479
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	323	5	303295 167467
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	330	5	303025 167581

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	330	5	303025 167581
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 209.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	330	5	303025 167581
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	331	5	302980 167650
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 119.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	331	5	303036 168102
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (W)	333	5	302966 167927
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	335	5	303301 167455
98	**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: Thaw Cadoxton Primacy: 1	A10SW (SW)	336	5	302975 167648
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	336	5	303034 167560
100	**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: Thaw Cadoxton Primacy: 1	A10NW (W)	345	5	303031 168121

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	**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: Thaw Cadoxton Primacy: 1	A10NW (W)	347	5	303055 168159
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NE (SW)	347	5	303306 167444
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	350	5	303026 168124
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	350	5	303026 168124
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	350	5	302953 167667
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	354	5	303021 168123
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	354	5	302958 167644
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	354	5	302951 167658
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 86.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	361	5	302946 167655

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	363	5	303016 168131
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	368	5	302952 168016
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	368	5	302954 168024
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 137.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (W)	372	5	302905 167852
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 141.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	377	5	302943 167621
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 488.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	383	5	302942 168036
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 105.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	383	5	302921 167966
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	386	5	302921 167650
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	395	5	302954 168083

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	397	5	302922 167618
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	397	5	302921 167621
121	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 73.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	405	5	303045 167460
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.6 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10SW (SW)	418	5	302891 167635
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	426	5	302936 168115
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A10NW (W)	426	5	302936 168115
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	427	5	302947 168140
126	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 143.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	427	5	302947 168140
127	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	429	5	302942 168135

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
128	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 82.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7NW (S)	429	5	303619 167411
129	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A10NW (W)	444	5	302932 168147
130	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	444	5	302932 168147
131	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	448	5	302902 167550
132	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	448	5	302902 167550
133	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	468	5	302907 168152
134	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	468	5	302907 168152
135	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 263.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	469	5	302902 168145
136	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	473	5	302908 168165

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	473	5	303049 167375
138	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A6NW (SW)	474	5	303026 167389
139	**OS Water Network Lines** Watercourse Form: Foreshore Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A6NW (SW)	474	5	303028 167388
140	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 192.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A6NW (SW)	475	5	303023 167390
141	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7NW (S)	479	5	303572 167349
142	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ffwl-y-mwn Brook Catchment Name: Thaw Cadoxton Primacy: 1	A12NE (E)	483	5	304847 167947
143	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 93.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A10NW (NW)	489	5	302956 168262
144	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (NW)	489	5	302956 168262
145	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7NW (S)	491	5	303572 167337

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7NW (S)	495	5	303573 167333
147	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A10NW (W)	503	5	302898 168208
148	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (W)	503	5	302898 168208
149	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7NW (S)	507	5	303568 167320
150	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 200.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7NW (S)	520	5	303571 167308
151	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 204.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7NW (S)	520	5	303571 167308
152	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	529	5	302935 168300
153	**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: Thaw Cadoxton Primacy: 1	A10NW (NW)	534	5	302896 168259
154	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (NW)	534	5	302904 168271

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (NW)	535	5	302904 168271
156	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 471.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A10NW (NW)	542	5	302889 168262
157	**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: Thaw Cadoxton Primacy: 1	A14SW (NW)	545	5	303013 168393
158	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ffwl-y-mwn Brook Catchment Name: Thaw Cadoxton Primacy: 1	A12SE (E)	547	5	304851 167874
159	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	550	5	302891 168279
160	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A14SW (NW)	550	5	302891 168279
161	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	557	5	302951 168354
162	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	557	5	302951 168354
163	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	559	5	302939 168345

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	559	5	303015 168414
165	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 274.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	559	5	303015 168414
166	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	565	5	303004 168412
167	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	569	5	302988 168403
168	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	574	5	302980 168402
169	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A14SW (NW)	575	5	302932 168361
170	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 82.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	575	5	302932 168361
171	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	577	5	302977 168404
172	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 98.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A14SW (NW)	584	5	302914 168357

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
173	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	590	5	302955 168402
174	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 129.8 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A9SE (W)	610	5	302698 167609
175	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 294.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	620	5	302954 168441
176	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A14SW (NW)	620	5	302954 168441
177	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ffwl-y-mwn Brook Catchment Name: Thaw Cadoxton Primacy: 1	A12SE (E)	629	5	304815 167712
178	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A12SE (E)	629	5	304850 167780
179	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	636	5	302934 168444
180	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	654	5	302934 168469
181	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A14SW (NW)	654	5	302934 168469

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
182	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A6SW (SW)	655	5	302928 167237
183	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 1900.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A6SW (SW)	656	5	302930 167235
184	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 101.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A13SE (NW)	665	5	302831 168407
185	**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: Thaw Cadoxton Primacy: 1	A14SW (NW)	679	5	302893 168491
186	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14NW (NW)	684	5	303030 168648
187	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A12SE (E)	687	5	304815 167701
188	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 90.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ffwl-y-mwn Brook Catchment Name: Thaw Cadoxton Primacy: 1	A12SE (E)	688	5	304788 167637
189	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14NW (NW)	689	5	303027 168652
190	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	695	5	302934 168523

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
191	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 273.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A14SW (NW)	695	5	302934 168523
192	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14SW (NW)	698	5	302920 168520
193	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 146.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7SW (S)	709	5	303671 167135
194	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7SW (S)	709	5	303671 167135
195	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7NE (SE)	714	5	304040 167348
196	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 47.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fon-mon Pond Catchment Name: Thaw Cadoxton Primacy: 1	A12SE (E)	754	5	304784 167618
197	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (E)	786	5	304770 167577
198	**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: Thaw Cadoxton Primacy: 1	A8NE (E)	788	5	304779 167580
199	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 77.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A8NE (E)	790	5	304779 167578

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
200	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (E)	790	5	304779 167578
201	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14NW (NW)	835	5	302901 168727
202	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A14NW (NW)	837	5	302898 168725
203	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 126.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A7SE (SE)	853	5	304005 167134
204	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 148.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (E)	853	5	304772 167507
205	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 213.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14NW (NW)	889	5	302951 168873
206	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 861.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ddawan Catchment Name: Thaw Cadoxton Primacy: 1	A13NE (NW)	904	5	302855 168781
207	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	A13NE (NW)	904	5	302855 168781
208	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A14NW (NW)	917	5	302912 168873

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
209	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 507.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A13SW (W)	922	5	302464 168284
210	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A13SW (W)	922	5	302464 168284
211	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 329.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A13SW (W)	956	5	302430 168291
212	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (SE)	993	5	304770 167360
213	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (SE)	997	5	304771 167355
214	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	A8NE (SE)	999	5	304770 167353
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Kenson - conf with Waycock to conf with Thaw WaterBody ID: GB110058021000 Operational Catchment: Thaw and Cadoxton Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	A11NW (NE)	0	2	303618 167949
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Llancarfan WaterBody ID: GB110058026410 Operational Catchment: Thaw and Cadoxton Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	(NE)	47	2	304720 169060
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Thaw WaterBody ID: GB110058026430 Operational Catchment: Thaw and Cadoxton Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	A10NW (W)	111	2	303190 167949

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Framework Directive - Groundwater Waterbody Name: Thaw & Cadoxtan Jurassic Lias Waterbody ID: GB41002G201400 URL Address: Not Available Overall Rating: Good Chemical Rating: Good Quantitative Measure: Good Year: 2023	A11NW (NE)	0	2	303618 167949
215	**Water Framework Directive - Surface Waters** Class Code: River Waterbody Name: Kenson - conf with Waycock to conf with Thaw Waterbody ID: GB110058021000 URL Address: Not Supplied Overall Rating: Moderate Chemical Rating: High Classification Year: 2023	A11NW (NW)	0	2	303593 167980
216	**Water Framework Directive - Surface Waters** Class Code: River Waterbody Name: Thaw Waterbody ID: GB110058026430 URL Address: Not Supplied Overall Rating: Moderate Chemical Rating: High Classification Year: 2023	A10NW (W)	329	2	302954 168024
217	**Water Framework Directive - Surface Waters** Class Code: Coastal Waterbody Name: Bristol Channel Inner North Waterbody ID: GB641008660000 URL Address: Not Supplied Overall Rating: Moderate Chemical Rating: High Classification Year: 2023	A6NW (SW)	408	2	303035 167463

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
218	**BGS Recorded Landfill Sites** Site Name: CEGB Aberthaw Power Stn Location: NR BARRY, Glam Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Derived	A6SW (SW)	760	-	303125 167045
219	**Historical Landfill Sites** Licence Holder: Llyswerry Lime and Civil Engineering Company Limited Location: Llyswerry Name: Llyswerry Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14906 First Input Date: 31st December 1980 Last Input Date: 30th August 1991 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0037 BGS Ref: Not Supplied Other Ref: 23	A10SE (W)	54	2	303227 167937
220	**Historical Landfill Sites** Licence Holder: National Power Plc Location: East Aberthaw, Barry Name: Aberthaw Power Station No.2 Operator Location: Aberthaw Works, East Aberthaw, near Barry Boundary Accuracy: As Supplied Provider Reference: EAHLD14910 First Input Date: 31st December 1991 Last Input Date: 31st December 1994 Specified Waste Type: Deposited Waste included Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0004 BGS Ref: Not Supplied Other Ref: 42, 25	A6NW (SW)	519	2	303101 167302
221	**Historical Landfill Sites** Licence Holder: Central Electricity Generating Board Location: Aberthaw, Barry, South Glamorgan Name: Aberthaw Power Station No.1 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15137 First Input Date: 31st December 1977 Last Input Date: 31st August 1999 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0003 BGS Ref: Not Supplied Other Ref: 2/90, 3	A6NW (SW)	519	2	303101 167302
222	**Historical Landfill Sites** Licence Holder: Aberthaw and Bristol Channel Portland Cement Company Limited Location: Aberthaw Works Quarry Site, East Aberthaw, Barry, South Glamorgan Name: Aberthaw No.1 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14925 First Input Date: 31st December 1978 Last Input Date: 31st December 1981 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0001 BGS Ref: Not Supplied Other Ref: 11	A6SE (S)	577	2	303549 167245

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
223	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Near Barry, Glam Name: CEGB Aberthaw Power Station Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31181 First Input Date: 1st April 1974 Last Input Date: 31st December 1975 Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 1283 Other Ref: Not Supplied	A6SW (SW)	760	2	303125 167045
224	**Historical Landfill Sites** Licence Holder: Blue Circle Industries Plc Location: Aberthaw Works Quarry Site, East Aberthaw, Barry, South Glamorgan Name: Aberthaw No.2 Operator Location: Aberthaw Works, East Aberthaw, near Barry Boundary Accuracy: As Supplied Provider Reference: EAHLD14926 First Input Date: 31st December 1986 Last Input Date: 30th November 1991 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0002 BGS Ref: Not Supplied Other Ref: 25	A7SW (S)	774	2	303727 167082
225	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Aberthaw Quarry Ash Disposal Site Licence Number: 0 Location: Aberthaw Quarry, Lafarge Cement Works, East Aberthaw, Barry, Vale of Glamorgan, CF62 3ZR Licence Holder: Rwe Npower Plc Authority: Natural Resources Wales Site Category: Waste Landfilling; >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied **Licence Status: Effective** Issued: 26th October 2012 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A11SW (SE)	131	2	303735 167859
226	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Aberthaw Ash Disposal Site Licence Number: 0 Location: Aberthaw Power Station, The Leys, Aberthaw, Vale of Glamorgan, CF62 4ZW Licence Holder: Rwe Npower Plc Authority: Natural Resources Wales Site Category: Waste Landfilling; >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied **Licence Status: Effective** Issued: 30th March 2007 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A6NW (SW)	479	2	303120 167338
227	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Blue Circle Cement Licence Number: 30016 Location: Blue Circle Cement, Aberthaw Cement Works, East Aberthaw, Barry, Glamorgan, CF62 3ZR Licence Holder: Blue Circle Industries Ltd Authority: Natural Resources Wales Site Category: Industrial Waste Landfills Max Input Rate: Not Supplied **Licence Status: Closure** Issued: 6th January 1987 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A7SW (S)	688	2	303700 167164

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
228	**Licensed Waste Management Facilities (Locations)** Licence Number: HP3799FH Location: East Aberthaw, Barry, Glamorgan, CF62 3ZR Operator Name: Tarmac Cement Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Industrial Waste Landfills **Licence Status: Effective** Issued: 19th August 2024 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SE (S)	731	2	303541 167087
229	**Licensed Waste Management Facilities (Locations)** Licence Number: 30016 Location: Blue Circle Cement, Aberthaw Cement Works, East Aberthaw, Barry, CF62 3ZR Operator Name: Blue Circle Industries Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Industrial Waste Landfills **Licence Status: Closed** Issued: 6th January 1987 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SW (S)	879	2	303651 166957
	Local Authority Landfill Coverage Name: Vale Of Glamorgan County Borough Council - Has supplied landfill data		0	6	303618 167949
230	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 23 Authority: Vale Of Glamorgan County Borough Council **Last Reported Status: Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A10SE (W)	50	6	303258 167927
231	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 30 Authority: Vale Of Glamorgan County Borough Council **Last Reported Status: Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A10SE (W)	50	6	303258 167927
232	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 11 Authority: Vale Of Glamorgan County Borough Council **Last Reported Status: Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A7NW (S)	509	6	303563 167317
233	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 22 Authority: Vale Of Glamorgan County Borough Council **Last Reported Status: Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A6SW (SW)	760	6	303112 167049

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
234	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 25 Authority: Vale Of Glamorgan County Borough Council **Last Reported Status:** **Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A7SW (S)	818	6	303803 167062
235	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A11SW (SE)	150	-	303778 167875
236	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A16NE (NE)	160	-	304730 168915
237	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A10SE (SW)	192	-	303338 167603
238	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A11SE (E)	237	-	303996 167923
239	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A14NE (NW)	663	-	303252 168825
240	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A8NE (SE)	909	-	304713 167430
241	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A15SW (N)	170	-	303633 168474
242	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SE (N)	213	-	303496 168446
243	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A6NW (SW)	453	-	303015 167422
244	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A6NW (SW)	468	-	302960 167448
245	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A5NE (SW)	482	-	302879 167522
246	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A6NW (SW)	516	-	302957 167387
247	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A6SE (S)	557	-	303484 167176
248	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A6NW (SW)	569	-	302921 167348
249	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A6NW (SW)	577	-	302925 167335
250	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A6SW (SW)	582	-	303053 167249

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
251	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A6NW (SW)	585	-	302889 167355
252	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A6SW (SW)	770	-	303035 167060
253	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A2NW (SW)	959	-	303043 166860
254	**Registered Landfill Sites** Licence Holder: Lliswerry Lime Licence Reference: 30 Site Location: Lliswerry Quarry, St Athan Road Limeworks, East Aberthaw, Barry, South Glamorgan Licence Easting: 303200 Licence Northing: 168040 Operator Location: Limeworks At St Athans Road, Aberthaw, Barry, South Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st August 1986 Preceded By Licence: 23 Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Brick Rubble Earth Quarry Wastes	A10NW (W)	159	3	303200 168040
254	**Registered Landfill Sites** Licence Holder: Lliswerry Lime Licence Reference: 23 Site Location: Lliswerry Quarry, St Athan Road Limeworks, East Aberthaw, Barry, South Glamorgan Licence Easting: 303200 Licence Northing: 168040 Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st December 1980 Preceded By Licence: Not Given Superseded By Licence: 30 Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Excavated Natural Materials $ Hardcore And Rubble Mine And Quarry Wastes	A10NW (W)	159	3	303200 168040
255	**Registered Landfill Sites** Licence Holder: Blue Circle Industries Plc Licence Reference: 11 Site Location: Aberthaw Works, East Aberthaw, Barry, South Glamorgan Licence Easting: 303550 Licence Northing: 167050 Operator Location: Aberthaw Works, East Aberthaw, Barry, South Glamorgan, Cf6 9zr Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: Waste produced/controlled by licence holder Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1977 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Old Licence, Wastes Not To Hand	A6SE (S)	769	3	303550 167050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
256	**Registered Landfill Sites** Licence Holder: Blue Circle Cement Licence Reference: 25 Site Location: Aberthaw Works (Quarry Site), East Aberthaw, Barry, South Glamorgan Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Aberthaw Works, East Aberthaw, BARRY, South Glamorgan, CF6 9ZR Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: Only waste produced on site Status: Operational as far as is knownOperational Dated: 1st October 1981 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste: Cement Waste General Industrial Wastes Office Waste Paper Prohibited Waste: Toxic Wastes	A7SW (S)	819	3	303688 167026
257	**Registered Waste Treatment or Disposal Sites** Licence Holder: Thomas Bros (Messrs) Licence Reference: 27 WAS 21 Site Location: Incinerator At Lliswerry Quarry, St Athan Road Limeworks, East Aberthaw, Barry, South Glamorgan Operator Location: N.F.S Buildings, St Athan, South Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Incineration Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1980 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Paper/Cardboard Waste Wood Waste/Timber	A10SW (W)	168	3	303120 167850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lias Group	A11NW (NE)	0	1	303618 167949
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (NW)	0	1	303586 167993
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A16SW (NE)	0	1	304551 168495
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11NE (NE)	0	1	304000 168272
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11NW (NE)	0	1	303618 167949
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10NE (NW)	0	1	303501 168080
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	A11NE (E)	0	1	304000 167949

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	A15SE (NE)	0	1	304000 168389
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10NW (W)	424	1	302903 168046
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SW (S)	789	1	303618 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	A6SW (SW)	810	1	303099 167000
258	**BGS Recorded Mineral Sites** Site Name: Lliswerry Location: Aberthaw, St Athan, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 4478 Type: Opencast **Status: Ceased** Operator: Lliswerry Lime Co., Ltd. Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 100m	A10SW (W)	97	1	303200 167900
259	**BGS Recorded Mineral Sites** Site Name: Cliff Wood Location: Penmark, Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161240 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A16NE (NE)	135	1	304735 168890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
260	**BGS Recorded Mineral Sites** Site Name: Burton Bridge Location: St Athan, Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161248 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A11SW (E)	141	1	303777 167890
261	**BGS Recorded Mineral Sites** Site Name: Aberthaw Cement Works Quarry Location: St Athan, Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161255 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A6NE (SW)	233	1	303343 167563
262	**BGS Recorded Mineral Sites** Site Name: Burton Bridge Location: St Athan, Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161249 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A11SE (E)	238	1	304000 167923
263	**BGS Recorded Mineral Sites** Site Name: Aberthaw Quarry Location: East Aberthaw, Barry, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 4466 Type: Opencast **Status: Ceased** Operator: Tarmac (A Crh Company) Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7NW (S)	599	1	303755 167280
263	**BGS Recorded Mineral Sites** Site Name: Aberthaw Quarry Location: East Aberthaw, Barry, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 4466 Type: Opencast **Status: Ceased** Operator: Tarmac (A Crh Company) Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A7NW (S)	599	1	303755 167280
264	**BGS Recorded Mineral Sites** Site Name: East Aberthaw Quarry Location: East Aberthaw, Barry, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 245151 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A6SW (SW)	607	1	303185 167190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
265	**BGS Recorded Mineral Sites** Site Name: Aberthaw Quarry Location: East Aberthaw, Barry, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 245149 Type: Opencast **Status: Dormant** Operator: Tarmac (A Crh Company) Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8NW (SE)	804	1	304330 167450
265	**BGS Recorded Mineral Sites** Site Name: Aberthaw Quarry Location: East Aberthaw, Barry, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 245149 Type: Opencast **Status: Dormant** Operator: Tarmac (A Crh Company) Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A8NW (SE)	804	1	304330 167450
266	**BGS Recorded Mineral Sites** Site Name: Aberthaw Quarry Location: East Aberthaw, Barry, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 245147 Type: Opencast **Status: Dormant** Operator: Tarmac (A Crh Company) Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7SW (S)	876	1	303740 166980
266	**BGS Recorded Mineral Sites** Site Name: Aberthaw Quarry Location: East Aberthaw, Barry, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 245147 Type: Opencast **Status: Dormant** Operator: Tarmac (A Crh Company) Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A7SW (S)	876	1	303740 166980
267	**BGS Recorded Mineral Sites** Site Name: Aberthaw Quarry Location: East Aberthaw, Barry, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 245148 Type: Opencast **Status: Dormant** Operator: Tarmac (A Crh Company) Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7SE (SE)	930	1	304075 167090
267	**BGS Recorded Mineral Sites** Site Name: Aberthaw Quarry Location: East Aberthaw, Barry, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 245148 Type: Opencast **Status: Dormant** Operator: Tarmac (A Crh Company) Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A7SE (SE)	930	1	304075 167090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	1	303501 168080
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	303618 167949
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	303586 167993
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	303586 167993
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	1	303501 168080
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	303618 167949
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	303618 167949
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	0	1	303611 168282
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A16SW (NE)	0	1	304305 168475
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	0	1	303417 167825
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	303580 167985
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	1	303633 168058
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	1	303501 168080
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	303895 168218
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A16NE (NE)	0	1	304860 168732
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	22	1	303259 167784
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	138	1	303397 167665
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	303618 167949

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A16SE (NE)	0	1	304626 168376
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	303439 167877
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A15SW (NE)	0	1	303805 168312
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A16SW (NE)	0	1	304396 168432
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	0	1	304199 168363
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	1	303580 168228
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	0	1	304031 168290
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	303830 168205
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	303567 167986
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	1	303473 168056
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	0	1	304230 168469
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A16SW (NE)	0	1	304553 168509
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A16SE (NE)	0	1	304819 168603
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	303356 167968
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	303586 167993
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	7	1	303609 168274
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	60	1	303404 167738
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	71	1	303346 167690
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	126	1	303283 167663
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	150	1	303367 167644
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NW (W)	242	1	303063 167958

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	1	303501 168080
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	303618 167949
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	303586 167993
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A16SW (NE)	0	1	304551 168495
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NW)	0	1	303586 167993
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	303618 167949
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	1	303501 168080
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	303618 167949
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	303618 167949

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
268	**Contemporary Trade Directory Entries** Name: Tarmac Location: East Aberthaw, East Aberthaw, Barry, South Glamorgan, CF62 3ZR Classification: Cement Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A6SE (S)	770	-	303415 167030
268	**Contemporary Trade Directory Entries** Name: Lafarge Cement Location: Aberthaw Works, East Aberthaw, Barry, South Glamorgan, CF62 3ZR Classification: Cement Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SE (S)	771	-	303415 167030
268	**Contemporary Trade Directory Entries** Name: Turner'S Ltd Location: Aberthaw Works, East Aberthaw, Barry, South Glamorgan, CF62 3ZR Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SE (S)	771	-	303415 167030
268	**Contemporary Trade Directory Entries** Name: K C S Transport Ltd Location: Aberthaw Works, East Aberthaw, BARRY, South Glamorgan, CF62 3ZR Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A6SE (S)	771	-	303415 167030
268	**Contemporary Trade Directory Entries** Name: Tarmac Ltd Location: Aberthaw Works, East Aberthaw, Barry, South Glamorgan, CF62 3ZR Classification: Cement Manufacturers & Distributors **Status: Active** Positional Accuracy: Automatically positioned to the address	A6SE (S)	771	-	303415 167030
269	**Contemporary Trade Directory Entries** Name: Esso Location: West Aberthaw, Barry, South Glamorgan, CF62 4JA Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A5NW (SW)	949	-	302396 167444
269	**Contemporary Trade Directory Entries** Name: Four Cross Service Station Location: West Aberthaw, Barry, South Glamorgan, CF62 4JA Classification: Petrol Filling Stations - 24 Hour **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A5NW (SW)	949	-	302396 167444
269	**Contemporary Trade Directory Entries** Name: Esso Location: West Aberthaw, Barry, CF62 4JA Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A5NW (SW)	950	-	302396 167443
270	**Fuel Station Entries** Name: Rss Four Cross Location: B4265 , St Athan , Llantwit Major, The Vale Of Glamorgan, CF62 4JA Brand: ESSO Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A5NW (SW)	949	-	302396 167444
271	**Points of Interest - Commercial Services** Name: K C S Transport Ltd Location: Lafarge Cement UK Aberthaw Works, Burton Terrace, East Aberthaw, CF62 3ZR Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A6NE (SW)	373	7	303225 167421
272	**Points of Interest - Commercial Services** Name: Turners (Soham) Ltd Location: Aberthaw Works, East Aberthaw, Barry, CF62 3ZR Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A6SE (S)	771	7	303415 167030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
272	**Points of Interest - Commercial Services** Name: K C S Transport Location: Aberthaw Works, East Aberthaw, Barry, CF62 3ZR Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A6SE (S)	771	7	303415 167030
273	**Points of Interest - Manufacturing and Production** Name: Limekilns (Dis) Location: CF62 Category: Industrial Features Class Code: Lime Kilns Positional Accuracy: Positioned to an adjacent address or location	A10SW (W)	149	7	303134 167820
273	**Points of Interest - Manufacturing and Production** Name: Lime Kilns (Disused) Location: CF62 Category: Industrial Features Class Code: Lime Kilns Positional Accuracy: Positioned to an adjacent address or location	A10SW (W)	149	7	303134 167820
274	**Points of Interest - Manufacturing and Production** Name: Llancadle Farm - Solar Photovoltaics (BEIS) Location: Llancadle Farm, Llancadle, Barry, South Glamorgan, CF62 3AQ Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to address or location	A14SE (N)	166	7	303542 168419
274	**Points of Interest - Manufacturing and Production** Name: Sheep Wash Location: CF62 Category: Farming Class Code: Sheep Dips and Washes Positional Accuracy: Positioned to address or location	A14SE (N)	228	7	303481 168455
275	**Points of Interest - Manufacturing and Production** Name: Aberthaw Cement Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6NE (S)	471	7	303406 167330
275	**Points of Interest - Manufacturing and Production** Name: Cement Works Location: CF62 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6NE (S)	479	7	303407 167323
276	**Points of Interest - Manufacturing and Production** Name: Quarry (Disused) Location: CF62 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	548	7	303751 167334
277	**Points of Interest - Manufacturing and Production** Name: Quarry (Disused) Location: CF62 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A6SW (SW)	632	7	303207 167162
277	**Points of Interest - Manufacturing and Production** Name: Quarry (Disused) Location: CF62 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A6SW (SW)	640	7	303217 167153
278	**Points of Interest - Manufacturing and Production** Name: Quarry (Limestone) Location: CF62 Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to an adjacent address or location	A7SE (SE)	732	7	303956 167248
279	**Points of Interest - Manufacturing and Production** Name: Solar Farm Location: CF62 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A14NW (NW)	743	7	303191 168881

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
280	**Points of Interest - Manufacturing and Production** Name: Quarry (Limestone) Location: CF62 Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to an adjacent address or location	A7NE (SE)	767	7	304079 167312
281	**Points of Interest - Manufacturing and Production** Name: Tank Location: CF62 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9NW (W)	840	7	302466 168017
282	**Points of Interest - Manufacturing and Production** Name: Aberthaw Quarry Location: CF62 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A7SE (SE)	904	7	304154 167195
283	**Points of Interest - Manufacturing and Production** Name: Quarry (Limestone) Location: CF62 Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	944	7	303759 166915
284	**Points of Interest - Public Infrastructure** Name: Weir Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A10SE (SW)	59	7	303385 167743
284	**Points of Interest - Public Infrastructure** Name: Weir Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A10SE (SW)	63	7	303390 167740
284	**Points of Interest - Public Infrastructure** Name: Sluices Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A10SE (SW)	130	7	303396 167673
285	**Points of Interest - Public Infrastructure** Name: Incinerator Location: CF62 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A10SW (W)	159	7	303127 167837
285	**Points of Interest - Public Infrastructure** Name: Incinerator Location: CF62 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A10SW (W)	174	7	303112 167839
286	**Points of Interest - Public Infrastructure** Name: Sluice Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6NW (SW)	258	7	303126 167583
287	**Points of Interest - Public Infrastructure** Name: Weir Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (E)	322	7	304813 168128
287	**Points of Interest - Public Infrastructure** Name: Weir Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (E)	324	7	304819 168130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
288	**Points of Interest - Public Infrastructure** Name: Weir Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (E)	442	7	304837 167990
288	**Points of Interest - Public Infrastructure** Name: Weir Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (E)	442	7	304839 167992
289	**Points of Interest - Public Infrastructure** Name: Weir Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SE (E)	558	7	304868 167872
289	**Points of Interest - Public Infrastructure** Name: Weir Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SE (E)	565	7	304864 167861
290	**Points of Interest - Public Infrastructure** Name: Sluice Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SW (SW)	629	7	302969 167243
290	**Points of Interest - Public Infrastructure** Name: Sluice Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A6SW (SW)	634	7	302959 167243
291	**Points of Interest - Public Infrastructure** Name: Weir Location: CF62 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SE (E)	740	7	304776 167630
292	**Points of Interest - Public Infrastructure** Name: Slag Heap Location: CF62 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A6SW (SW)	800	7	303075 167016
293	**Points of Interest - Public Infrastructure** Name: Four Cross Service Station Location: West Aberthaw, Barry, CF62 4JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A5NW (SW)	949	7	302396 167444
293	**Points of Interest - Public Infrastructure** Name: Esso Location: West Aberthaw, Barry, CF62 4JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A5NW (SW)	949	7	302396 167444
293	**Points of Interest - Public Infrastructure** Name: Four Cross Service Station Location: West Aberthaw, Barry, CF62 4JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A5NW (SW)	949	7	302396 167444
293	**Points of Interest - Public Infrastructure** Name: Esso Location: St Athan, West Aberthaw, Barry, CF62 4JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A5NW (SW)	950	7	302396 167443

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
293	**Points of Interest - Public Infrastructure** Name: Rss Four Cross Location: West, Aberthaw, Barry, CF62 4JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A5NW (SW)	950	7	302396 167443

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
294	**Ancient Woodland** Name: Not Supplied Reference: 15303 Area(m²): 4067.49 Type: Ancient and Semi-Natural Woodland	A11NW (NW)	0	2	303591 167975
295	**Ancient Woodland** Name: Not Supplied Reference: 41870 Area(m²): 5038.38 Type: Plantation on Ancient Woodland	A16SE (NE)	0	2	304720 168514
296	**Ancient Woodland** Name: Not Supplied Reference: 15299 Area(m²): 7189.76 Type: Ancient and Semi-Natural Woodland	A10NE (W)	0	2	303372 167980
297	**Ancient Woodland** Name: Not Supplied Reference: 7921 Area(m²): 6303.8 Type: Ancient and Semi-Natural Woodland	A15SW (NE)	0	2	303889 168324
298	**Ancient Woodland** Name: Not Supplied Reference: 10040 Area(m²): 1401.58 Type: Restored Ancient Woodland Site	A16SW (NE)	0	2	304510 168487
299	**Ancient Woodland** Name: Not Supplied Reference: 11317 Area(m²): 14696.9 Type: Restored Ancient Woodland Site	A16SW (NE)	0	2	304510 168496
300	**Ancient Woodland** Name: Not Supplied Reference: 18043 Area(m²): 1383.35 Type: Ancient and Semi-Natural Woodland	A15SE (NE)	0	2	304217 168331
301	**Ancient Woodland** Name: Not Supplied Reference: 39582 Area(m²): 22103.56 Type: Plantation on Ancient Woodland	A16SW (NE)	0	2	304346 168346
302	**Ancient Woodland** Name: Not Supplied Reference: 15298 Area(m²): 1261.32 Type: Ancient and Semi-Natural Woodland	A11NW (W)	0	2	303613 167951
303	**Ancient Woodland** Name: Not Supplied Reference: 7920 Area(m²): 59415.18 Type: Ancient and Semi-Natural Woodland	A11NW (NW)	0	2	303614 167951
304	**Ancient Woodland** Name: Not Supplied Reference: 7920 Area(m²): 40561.39 Type: Ancient and Semi-Natural Woodland	A16SW (NE)	0	2	304565 168381
305	**Ancient Woodland** Name: Not Supplied Reference: 7922 Area(m²): 7901.58 Type: Ancient and Semi-Natural Woodland	A15SE (NE)	0	2	304057 168428
306	**Ancient Woodland** Name: Not Supplied Reference: 12219 Area(m²): 8055.45 Type: Ancient and Semi-Natural Woodland	A16SE (NE)	0	2	304629 168427
307	**Ancient Woodland** Name: Not Supplied Reference: 17968 Area(m²): 13402.05 Type: Ancient and Semi-Natural Woodland	(NE)	6	2	305045 168761

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
308	**Ancient Woodland** Name: Not Supplied Reference: 15306 Area(m²): 1319.58 Type: Ancient and Semi-Natural Woodland	A15SE (NE)	29	2	304036 168470
309	**Ancient Woodland** Name: Not Supplied Reference: 41881 Area(m²): 4602.34 Type: Plantation on Ancient Woodland	A16SE (E)	57	2	304573 168276
310	**Ancient Woodland** Name: Not Supplied Reference: 17970 Area(m²): 51384.43 Type: Ancient and Semi-Natural Woodland	(NE)	121	2	305241 168823
311	**Ancient Woodland** Name: Not Supplied Reference: 7474 Area(m²): 13560.16 Type: Ancient and Semi-Natural Woodland	A16SE (E)	141	2	304772 168331
312	**Ancient Woodland** Name: Not Supplied Reference: 15301 Area(m²): 5627.07 Type: Ancient and Semi-Natural Woodland	A10SW (W)	203	2	303099 167935
313	**Ancient Woodland** Name: Not Supplied Reference: 10077 Area(m²): 21678.26 Type: Restored Ancient Woodland Site	A12NE (E)	218	2	304609 168116
314	**Ancient Woodland** Name: Not Supplied Reference: 7919 Area(m²): 13107.58 Type: Ancient and Semi-Natural Woodland	A10NW (W)	221	2	303118 168041
315	**Ancient Woodland** Name: Not Supplied Reference: 17969 Area(m²): 1657.63 Type: Ancient and Semi-Natural Woodland	(NE)	226	2	305061 168999
316	**Ancient Woodland** Name: Not Supplied Reference: 8018 Area(m²): 16155.74 Type: Ancient and Semi-Natural Woodland	(NE)	242	2	305062 168998
317	**Ancient Woodland** Name: Not Supplied Reference: 17972 Area(m²): 2791.62 Type: Ancient and Semi-Natural Woodland	(NE)	271	2	305093 169031
318	**Ancient Woodland** Name: Not Supplied Reference: 15304 Area(m²): 6846.88 Type: Ancient and Semi-Natural Woodland	A10NW (W)	352	2	303058 168172
319	**Ancient Woodland** Name: Not Supplied Reference: 17961 Area(m²): 4552.44 Type: Ancient and Semi-Natural Woodland	(E)	367	2	305555 168706
320	**Ancient Woodland** Name: Not Supplied Reference: 15300 Area(m²): 10269.63 Type: Ancient and Semi-Natural Woodland	A10NW (W)	384	2	302923 168073
321	**Ancient Woodland** Name: Not Supplied Reference: 7917 Area(m²): 13042.93 Type: Ancient and Semi-Natural Woodland	A10NW (W)	386	2	302933 168016

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
322	**Ancient Woodland** Name: Not Supplied Reference: 17976 Area(m²): 1300.75 Type: Ancient and Semi-Natural Woodland	(NE)	433	2	304936 169198
323	**Ancient Woodland** Name: Not Supplied Reference: 8021 Area(m²): 19763.32 Type: Ancient and Semi-Natural Woodland	(NE)	444	2	304937 169219
324	**Ancient Woodland** Name: Not Supplied Reference: 9275 Area(m²): 1324.04 Type: Restored Ancient Woodland Site	A10NW (W)	447	2	302914 168120
325	**Ancient Woodland** Name: Not Supplied Reference: 10651 Area(m²): 19052.93 Type: Restored Ancient Woodland Site	A9NE (W)	480	2	302882 168131
326	**Ancient Woodland** Name: Not Supplied Reference: 7923 Area(m²): 7456.8 Type: Ancient and Semi-Natural Woodland	A14SW (NW)	499	2	303078 168403
327	**Ancient Woodland** Name: Not Supplied Reference: 18041 Area(m²): 4494.81 Type: Ancient and Semi-Natural Woodland	A12SE (E)	509	2	304719 167855
328	**Ancient Woodland** Name: Not Supplied Reference: 15307 Area(m²): 2093.93 Type: Ancient and Semi-Natural Woodland	A14SW (NW)	513	2	303160 168546
329	**Ancient Woodland** Name: Not Supplied Reference: 8037 Area(m²): 14823.02 Type: Ancient and Semi-Natural Woodland	A12SE (E)	516	2	304799 167882
330	**Ancient Woodland** Name: Not Supplied Reference: 9276 Area(m²): 27639.76 Type: Restored Ancient Woodland Site	A9NE (W)	526	2	302837 168143
331	**Ancient Woodland** Name: Not Supplied Reference: 18040 Area(m²): 4293.83 Type: Ancient and Semi-Natural Woodland	A12SE (E)	634	2	304758 167648
332	**Ancient Woodland** Name: Not Supplied Reference: 9277 Area(m²): 14411.65 Type: Restored Ancient Woodland Site	A13SE (NW)	662	2	302771 168303
333	**Ancient Woodland** Name: Not Supplied Reference: 7924 Area(m²): 52487.69 Type: Ancient and Semi-Natural Woodland	A14SW (NW)	662	2	302923 168520
334	**Ancient Woodland** Name: Not Supplied Reference: 15308 Area(m²): 3450.37 Type: Ancient and Semi-Natural Woodland	A14SW (NW)	694	2	302937 168525
335	**Ancient Woodland** Name: Not Supplied Reference: 15305 Area(m²): 8751.36 Type: Ancient and Semi-Natural Woodland	A13SW (W)	955	2	302455 168340

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Vale Of Glamorgan County Borough Council - Environmental Health Department	January 2020	Annual Rolling Update
Natural Resources Wales	November 2023	Annually
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	November 2024	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	July 2024	Quarterly
Natural Resources Wales	November 2024	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Variable
Local Authority Pollution Prevention and Controls		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	November 2024	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Historical Prosecutions		
Environment Agency, Welsh Region	March 2013	Not Applicable
Natural Resources Wales	March 2013	Not Applicable
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	
Substantiated Pollution Incident Register		
Environment Agency Wales - South East Area	January 2021	Quarterly
Natural Resources Wales	November 2024	Quarterly
Water Abstractions		
Natural Resources Wales	December 2024	Quarterly
Environment Agency - Welsh Region	October 2024	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	

Data Currency

Agency & Hydrological	Version	Update Cycle
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	
OS Water Network Lines Ordnance Survey	October 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water Suitability Natural Resources Wales	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Water Framework Directive - Catchment Natural Resources Wales	July 2024	Annually
Water Framework Directive - Groundwater Natural Resources Wales	July 2024	Annually
Water Framework Directive - Surface Waters Natural Resources Wales	November 2024	Annually

Data Currency

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Natural Resources Wales Environment Agency Wales - South East Area	August 2024 January 2023	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	July 2024 November 2024	Quarterly Quarterly
Local Authority Landfill Coverage Vale Of Glamorgan County Borough Council	February 2003	Not Applicable
Local Authority Recorded Landfill Sites Vale Of Glamorgan County Borough Council	October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency Wales - South East Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September 2024	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Vale Of Glamorgan County Borough Council - Planning Department	January 2016	Variable
Planning Hazardous Substance Consents Vale Of Glamorgan County Borough Council - Planning Department	January 2016	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	March 2024	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	November 2024	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	November 2024	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	December 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Points of Interest - Commercial Services PointX	December 2024	Quarterly
Points of Interest - Education and Health PointX	December 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2024	Quarterly
Points of Interest - Public Infrastructure PointX	December 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	October 2024	Bi-Annually
Areas of Adopted Green Belt Vale Of Glamorgan County Borough Council	July 2024	Quarterly
Areas of Unadopted Green Belt Vale Of Glamorgan County Borough Council	July 2024	Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	November 2024	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Vale Of Glamorgan County Borough Council	August 2024	Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2024	Bi-Annually
National Nature Reserves Natural Resources Wales	January 2025	Bi-Annually
National Parks Natural Resources Wales	September 2024	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 November 2024	Bi-Annually
Ramsar Sites Natural Resources Wales	August 2024	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	November 2024	Bi-Annually
Special Areas of Conservation Natural Resources Wales	October 2024	Bi-Annually
Special Protection Areas Natural Resources Wales	November 2024	Bi-Annually

Data Suppliers

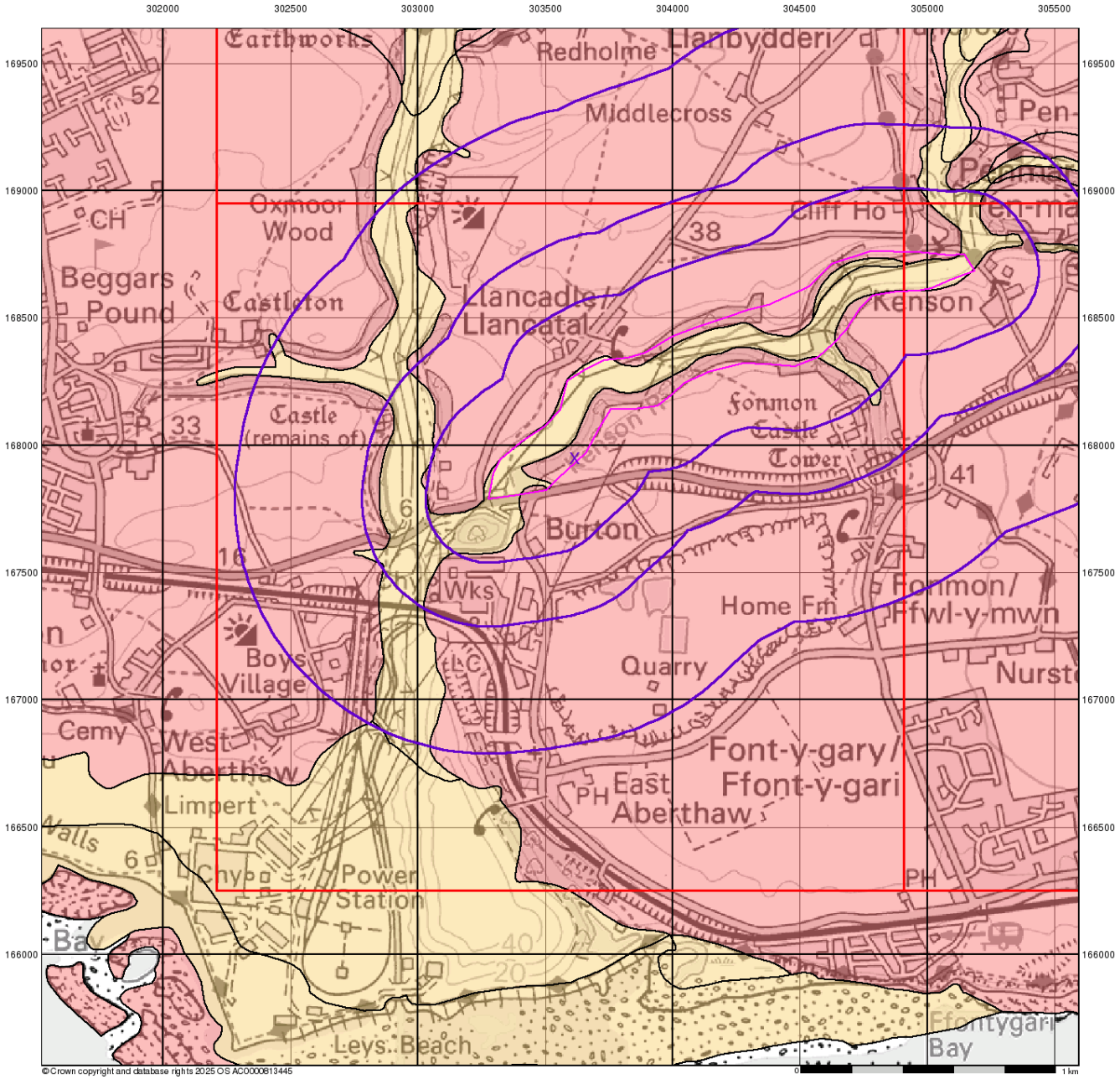
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Vale Of Glamorgan County Borough Council - Environmental Health Department** Civic Offices, Holton Road, Barry, CF63 4RU	Telephone: 01446 700111 Fax: 01446 745566 Website: www.valeofglamorgan.gov.uk
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
6	**Vale Of Glamorgan County Borough Council** Civic Offices, Holton Road, Barry, South Glamorgan, CF63 4RU	Telephone: 01446 700111 Fax: 01446 745566 Website: www.valeofglamorgan.gov.uk
7	**PointX** 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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



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LANDMARK INFORMATION GROUP

Groundwater Vulnerability

General

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

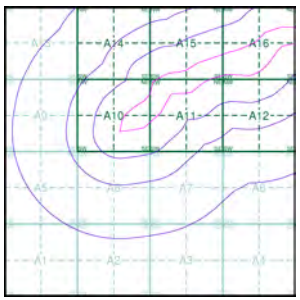
Agency and Hydrological

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

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
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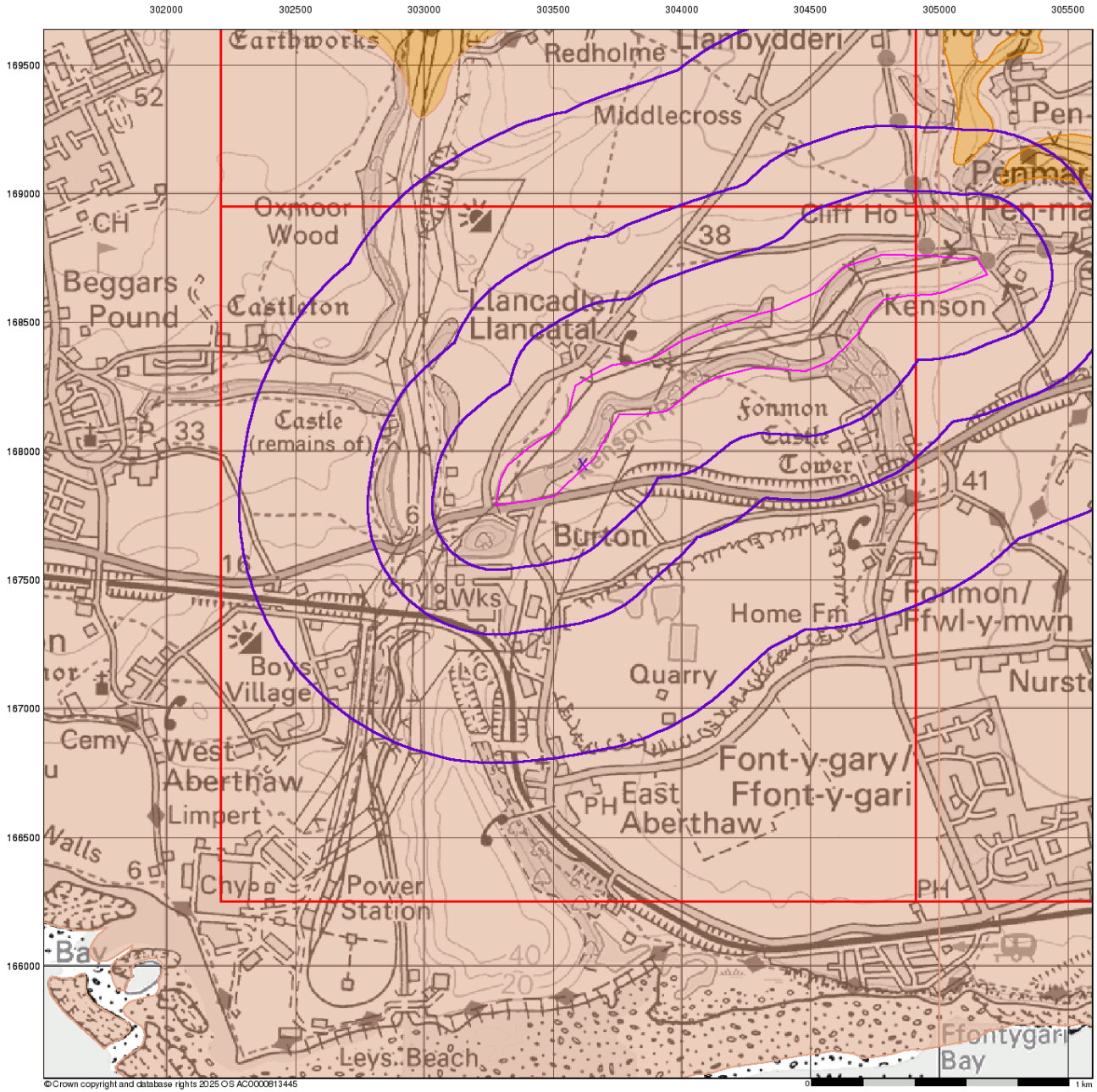

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LANDMARK INFORMATION GROUP

Bedrock Aquifer Designation

General

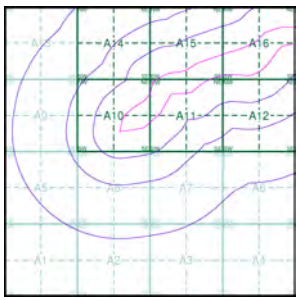
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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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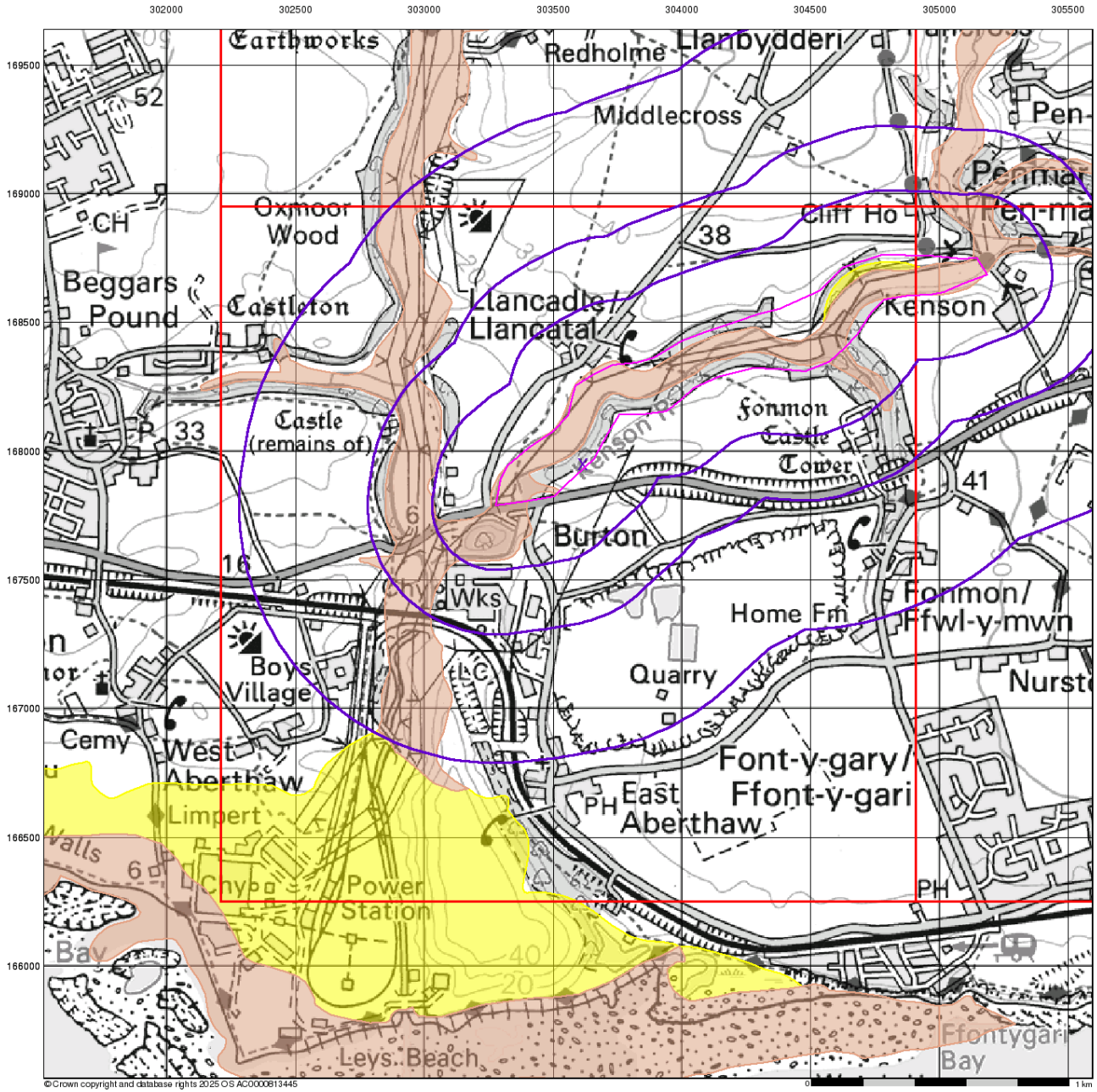

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LANDMARK INFORMATION GROUP

Superficial Aquifer Designation

General

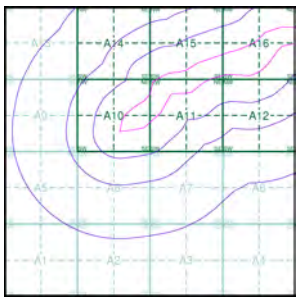
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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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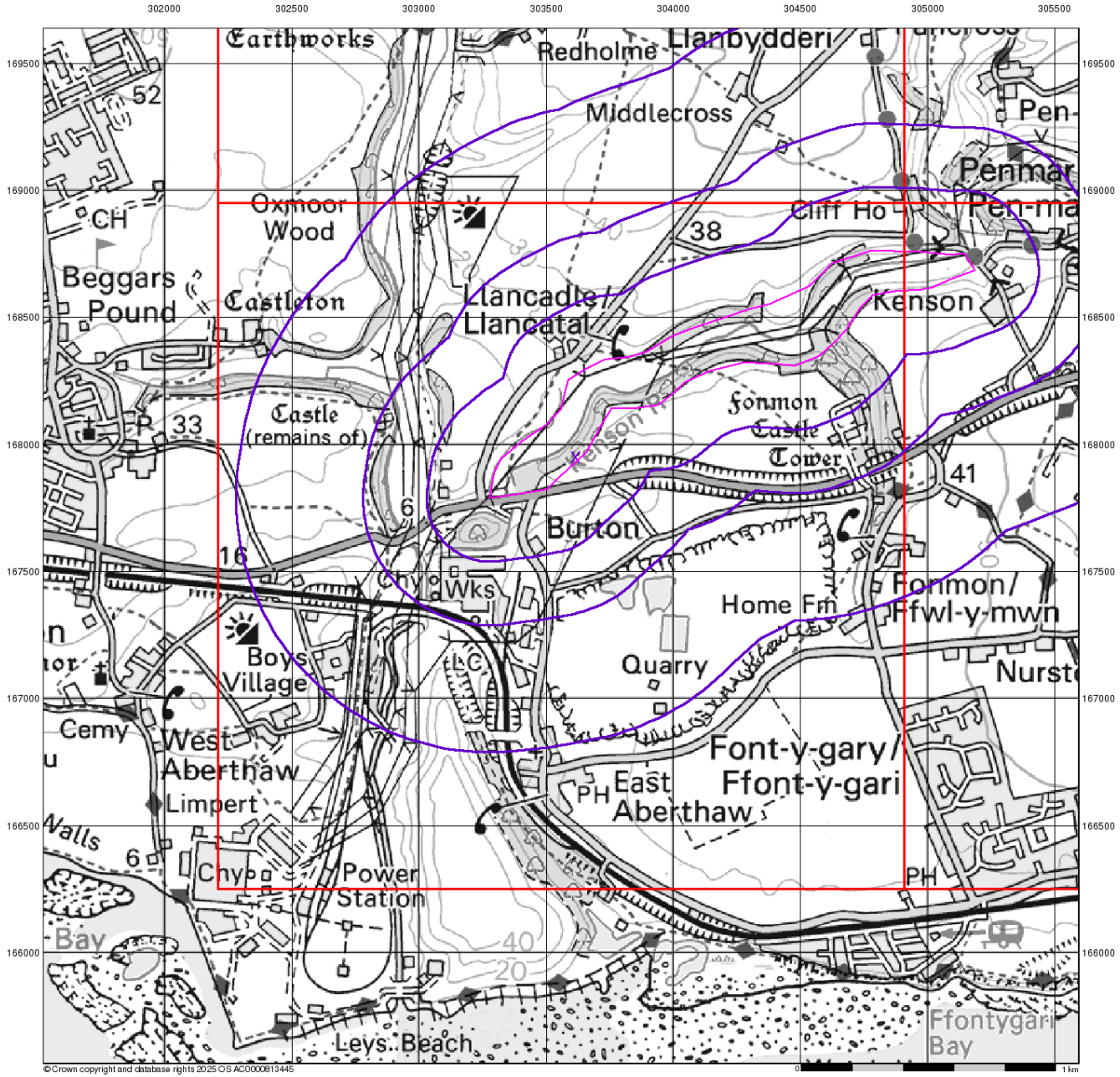

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LANDMARK INFORMATION GROUP

Source Protection Zones

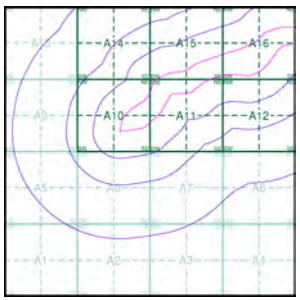
General

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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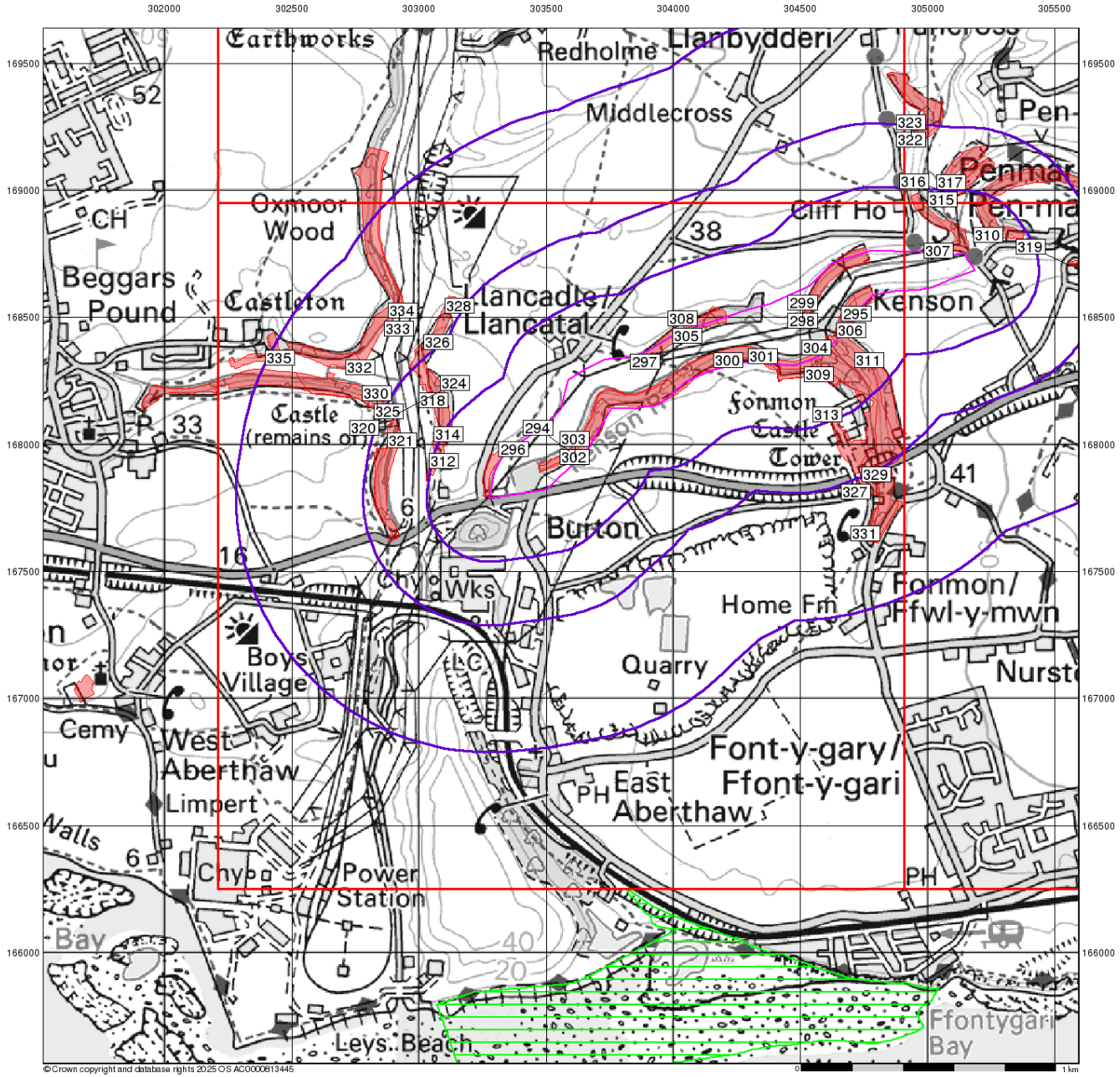

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LANDMARK INFORMATION GROUP

Sensitive Land Uses

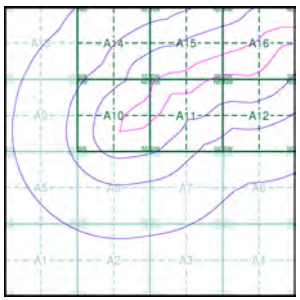
General

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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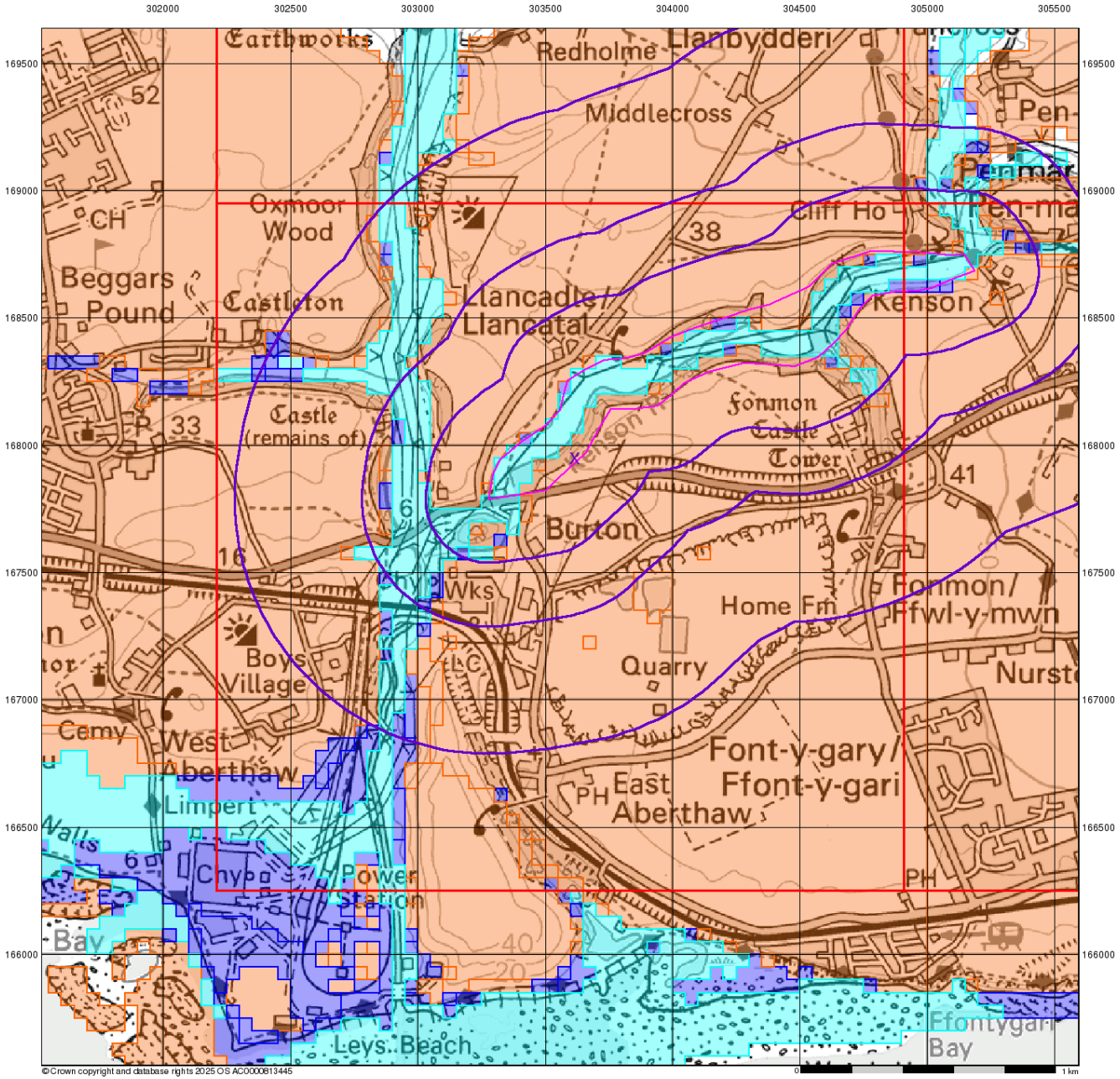

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BGS Flood GFS Data

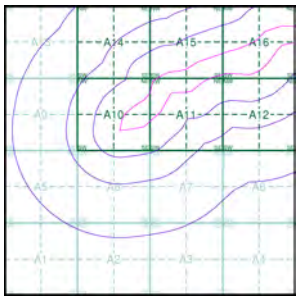
General

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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Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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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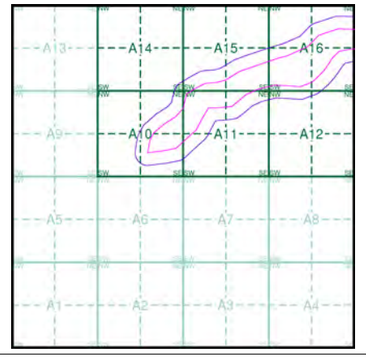
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1885	2
Glamorganshire	1:10,560	1900	3
Glamorganshire	1:10,560	1921	4
Glamorganshire	1:10,560	1947 - 1951	5
Historical Aerial Photography	1:10,560	1947	6
Ordnance Survey Plan	1:10,000	1964	7
Ordnance Survey Plan	1:10,000	1969	8
Ordnance Survey Plan	1:10,000	1975	9
Ordnance Survey Plan	1:10,000	1984	10
Ordnance Survey Plan	1:10,000	1990	11
10K Raster Mapping	1:10,000	1999	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2024	14

Historical Map - Slice A



Order Details

Order Number: 367701071_1_1
Customer Ref: 2025s0023
National Grid Reference: 303620, 167950
Slice: A
Site Area (Ha): 40.66
Search Buffer (m): 1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
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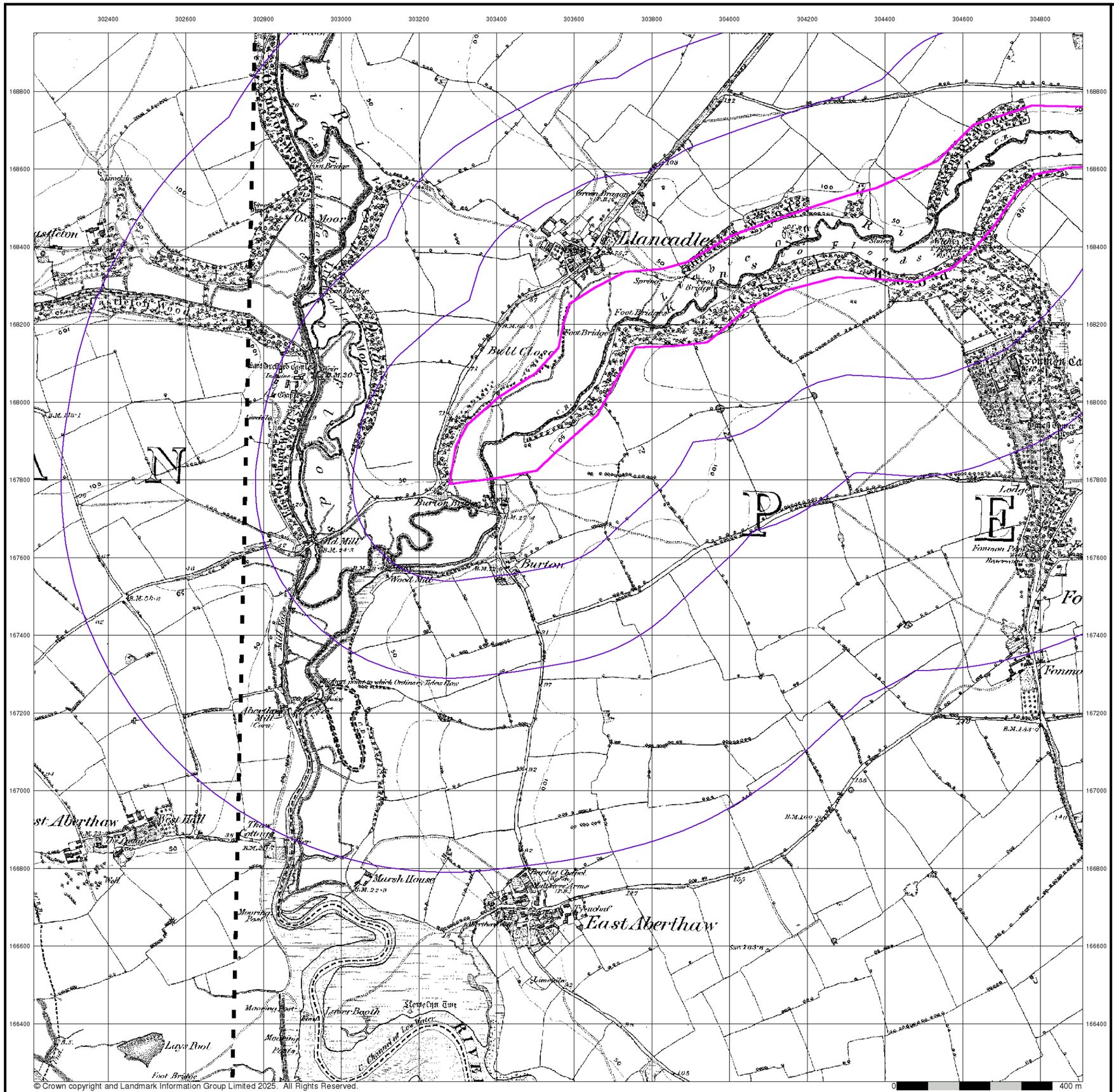
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304200
304400
304600
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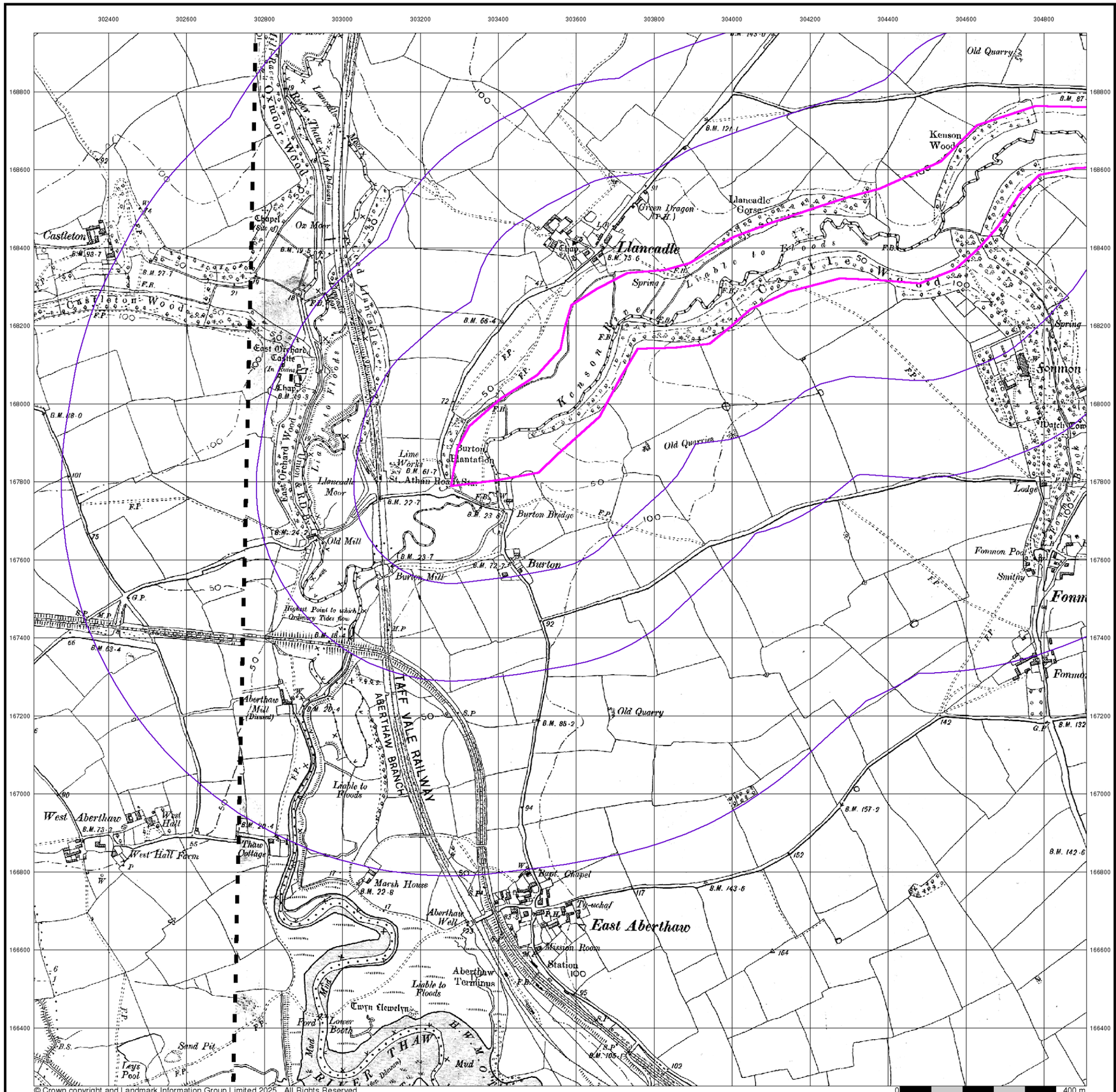
168600
168400
168200
168000
167800
167600
167400
167200
167000
166800
166600
166400
Blancadle
Burton
East Aberthaw
Burton Mill
Wood Mill
Old Mill
Marsh House
Lays Pool
Lower Booth
Limpets
Foot Bridge
Sprink
Burtle Close
Mooring Post
Mooring Posts
Float Bridge
Channel at Low Water
Boundary Stone
Lodge
Farm
Pond
Sluice
Sluice Gate
Tumulus
Cottages
Cottage
Mill
Coom.
Works
Chapel
Inclosure
Plantation
Copse
Wood
Moor
Marsh
Pool
Brook
Ditch
Hedge
Fence
Road
Path
Bridge
Ford
Well
Spring
Rocks
Sand
Mud
Stone
Trees
Scrub
Grass
Arable
Pasture
Meadow
Garden
Orchard
Building
Church
Tower
Spire
Vicarage
Rectory
Parsonage
Manor
Hall
Castle
Fort
Camp
Earthwork
Barrow
Cairn
Standing Stone
Cross
Milestone
Boundary
Parish
County
Hundred
Rape
Lathe
Tithing
Liberty
Borough
Corporation
Common
Waste
Enclosure
Allotment
Glebe
Tithe
Rent
Lease
Copyhold
Freehold
Leasehold
Tenant
Occupier
Owner
Proprietor
Trustee
Executor
Administrator
Heir
Devisee
Legatee
Testator
Intestate
Probate
Letters
Will
Codicil
Witness
Seal
Signature
Date
Year
Month
Day
Hour
Minute
Second
Time
Clock
Watch
Chronometer
Sundial
Hourglass
Stopwatch
Timer
Alarm
Bell
Whistle
Horn
Trumpet
Drum
Fife
Flute
Clarinet
Oboe
Bassoon
Saxophone
Trombone
Tuba
Cornet
Euphonium
Tenor Horn
Baritone
Bass
Treble
Alto
Soprano
Contralto
Tenor
Baritone
Bass
Choir
Organ
Piano
Harpsichord
Clavichord
Spinet
Virginal
Harp
Lyre
Guitar
Lute
Mandolin
Banjo
Ukulele
Violin
Viola
Cello
Double Bass
Fiddle
Bow
Violin Bow
Cello Bow
Double Bass Bow
Fiddle Bow
Violin Case
Cello Case
Double Bass Case
Fiddle Case
Violin Maker
Cello Maker
Double Bass Maker
Fiddle Maker
Violin Shop
Cello Shop
Double Bass Shop
Fiddle Shop
Violin Repair
Cello Repair
Double Bass Repair
Fiddle Repair
Violin Lesson
Cello Lesson
Double Bass Lesson
Fiddle Lesson
Violin Teacher
Cello Teacher
Double Bass Teacher
Fiddle Teacher
Violin Student
Cello Student
Double Bass Student
Fiddle Student
Violin Concert
Cello Concert
Double Bass Concert
Fiddle Concert
Violin Orchestra
Cello Orchestra
Double Bass Orchestra
Fiddle Orchestra
Violin Band
Cello Band
Double Bass Band
Fiddle Band
Violin Quartet
Cello Quartet
Double Bass Quartet
Fiddle Quartet
Violin Trio
Cello Trio
Double Bass Trio
Fiddle Trio
Violin Duet
Cello Duet
Double Bass Duet
Fiddle Duet
Violin Solo
Cello Solo
Double Bass Solo
Fiddle Solo
Violin Recital
Cello Recital
Double Bass Recital
Fiddle Recital
Violin Competition
Cello Competition
Double Bass Competition
Fiddle Competition
Violin Festival
Cello Festival
Double Bass Festival
Fiddle Festival
Violin Museum
Cello Museum
Double Bass Museum
Fiddle Museum
Violin Exhibition
Cello Exhibition
Double Bass Exhibition
Fiddle Exhibition
Violin Gallery
Cello Gallery
Double Bass Gallery
Fiddle Gallery
Violin Auction
Cello Auction
Double Bass Auction
Fiddle Auction
Violin Sale
Cello Sale
Double Bass Sale
Fiddle Sale
Violin Purchase
Cello Purchase
Double Bass Purchase
Fiddle Purchase
Violin Rental
Cello Rental
Double Bass Rental
Fiddle Rental
Violin Hire
Cello Hire
Double Bass Hire
Fiddle Hire
Violin Insurance
Cello Insurance
Double Bass Insurance
Fiddle Insurance
Violin Appraisal
Cello Appraisal
Double Bass Appraisal
Fiddle Appraisal
Violin Valuation
Cello Valuation
Double Bass Valuation
Fiddle Valuation
Violin Restoration
Cello Restoration
Double Bass Restoration
Fiddle Restoration
Violin Repair
Cello Repair
Double Bass Repair
Fiddle Repair
Violin Maker
Cello Maker
Double Bass Maker
Fiddle Maker
Violin Shop
Cello Shop
Double Bass Shop
Fiddle Shop


Oxmoor Wood
Castleton
Castleton Wood
East Orchard Castle (In Ruins)
Llancadle
Green Dragon (P.H.)
Llancadle Gorse
Kenson Wood
Kenson Rivulet
Liable to Floods
Spring
Old Quarry
Lime Works
Burton Plantation
Llancadle Moor
St. Athan Road (To St...
Burton Bridge
Old Mill
Burton Mill
Burton
Highest Point to which Ordinary Tides flow
Common
Dutch Common
Lodge
Common Pool
Smithy
Old Quarries
Aberthaw (Mill (Disused))
TAFF VALE RAILWAY
ABERTHAW BRANCH
Old Quarry
West Aberthaw
West Hall
West Hall Farm
Thaw Cottage
Marsh House
Bapt. Chapel
Aberthaw Well
East Aberthaw
Mission Room
Station
Aberthaw Terminus
Cwm Elewelyn
Ford
Lower Booth
Mud
Sand Pit
Leys Pool
RIVER THAW
H.W.M.O.T.
Old Quarry
Lodge
Smithy
Fonmon
Fonmon Pool
Fonmon Castle
Fonmon Park
Fonmon Park Lodge
Fonmon Park Lodge Farm
Fonmon Park Lodge Cottages
Fonmon Park Lodge Cottages
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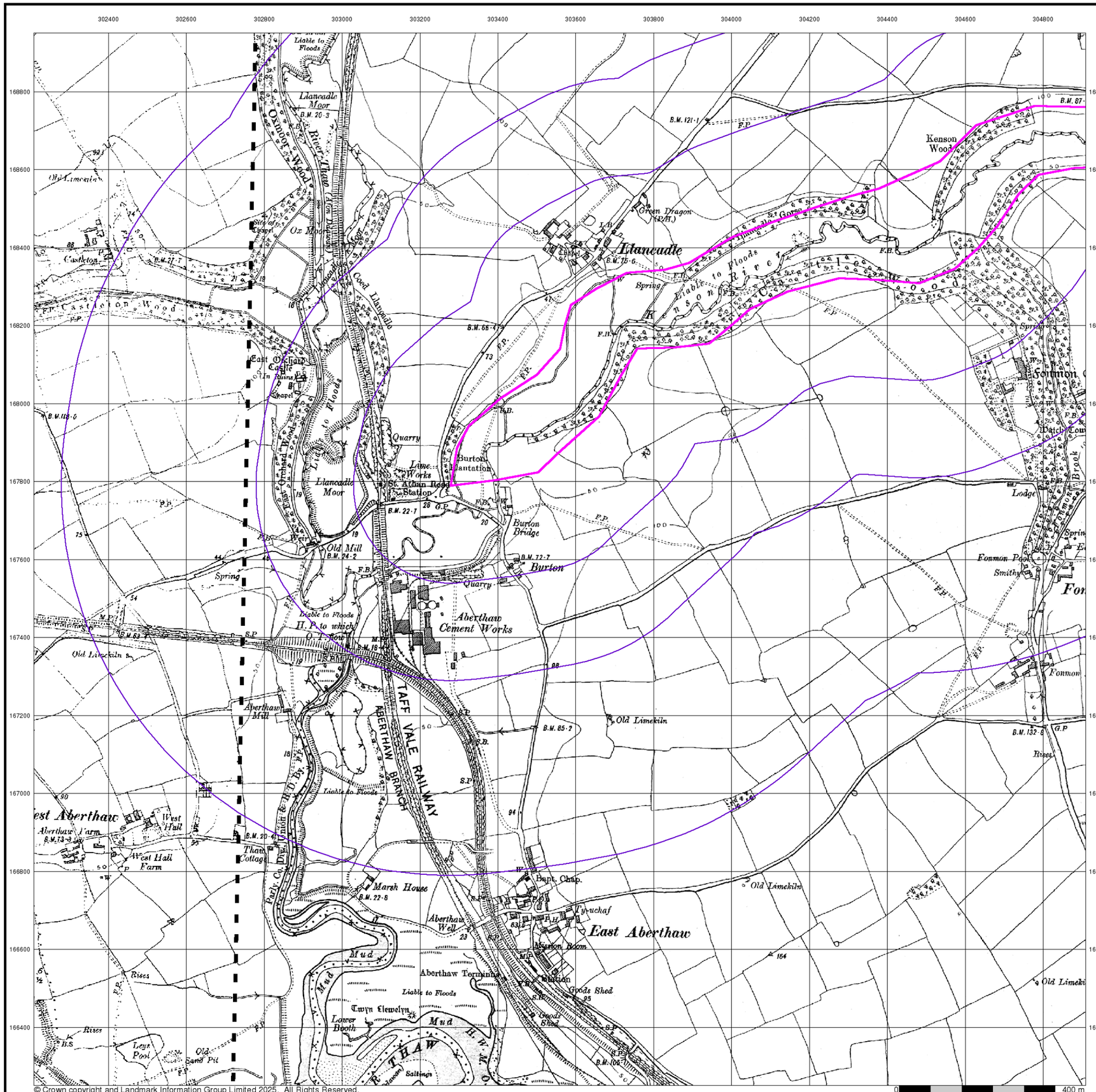

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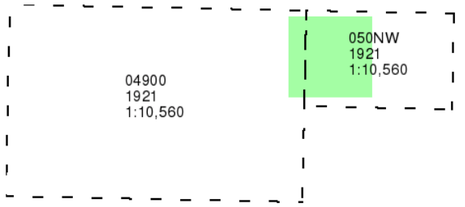
Glamorganshire

Published 1921

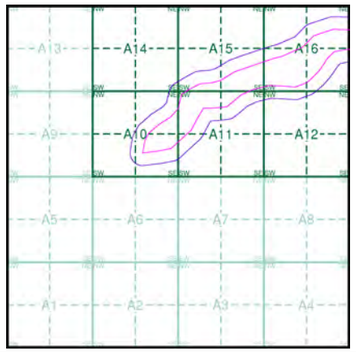
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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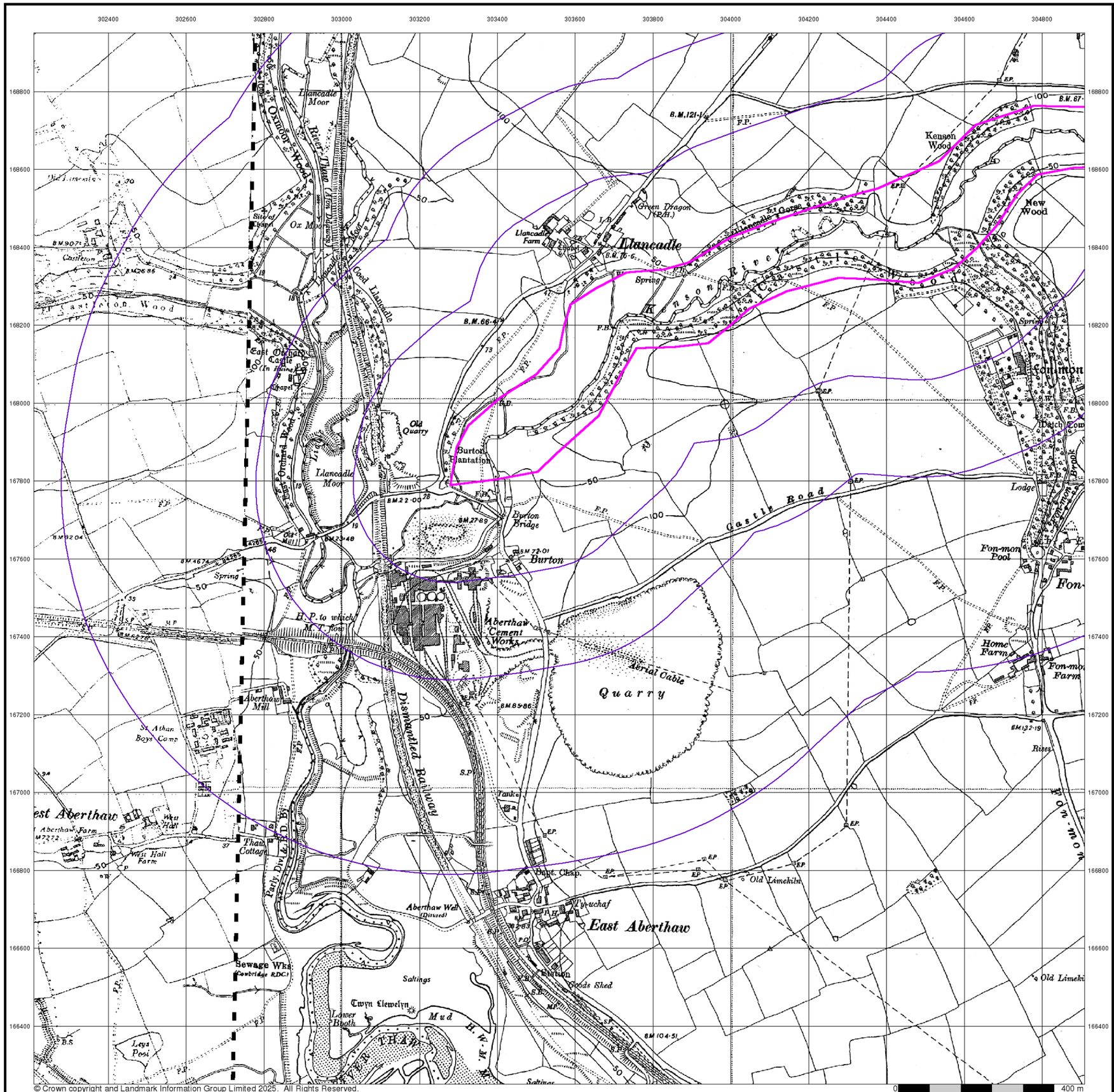

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Glamorganshire

Published 1947 - 1951

Source map scale - 1:10,560

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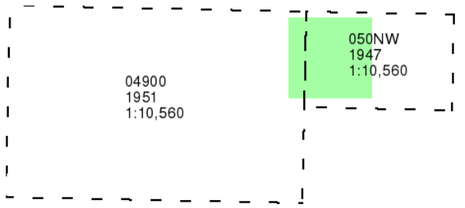

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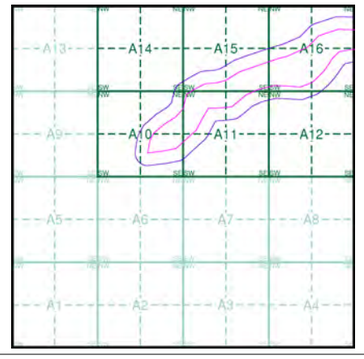

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Historical Aerial Photography

Published 1947

Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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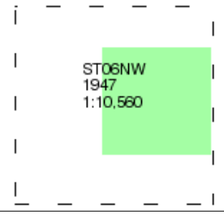
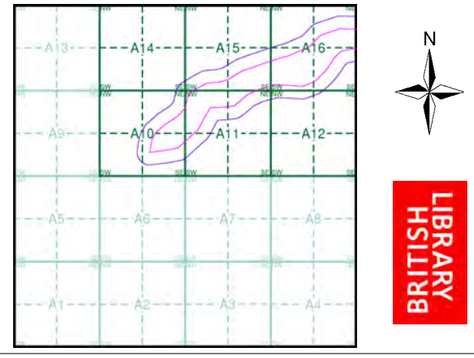
Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



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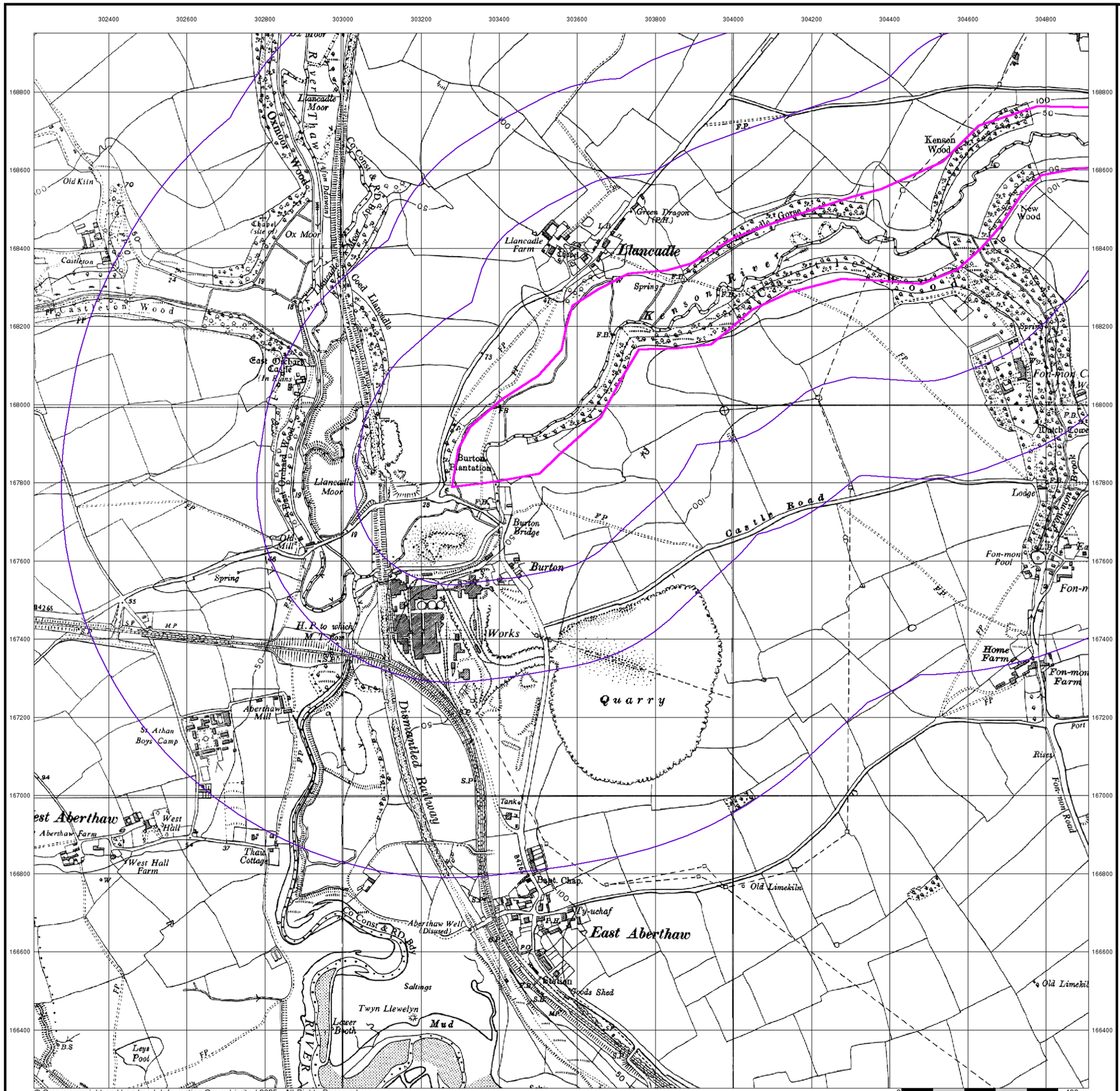

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Ordnance Survey Plan

Published 1964

Source map scale - 1:10,000

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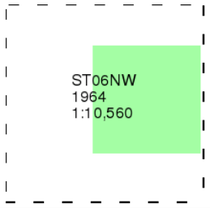
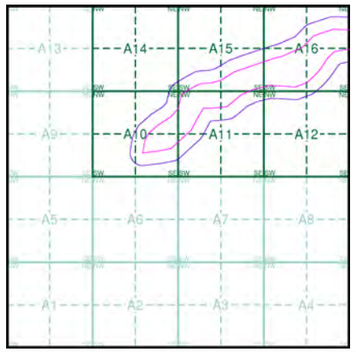


Historical Map - Slice A



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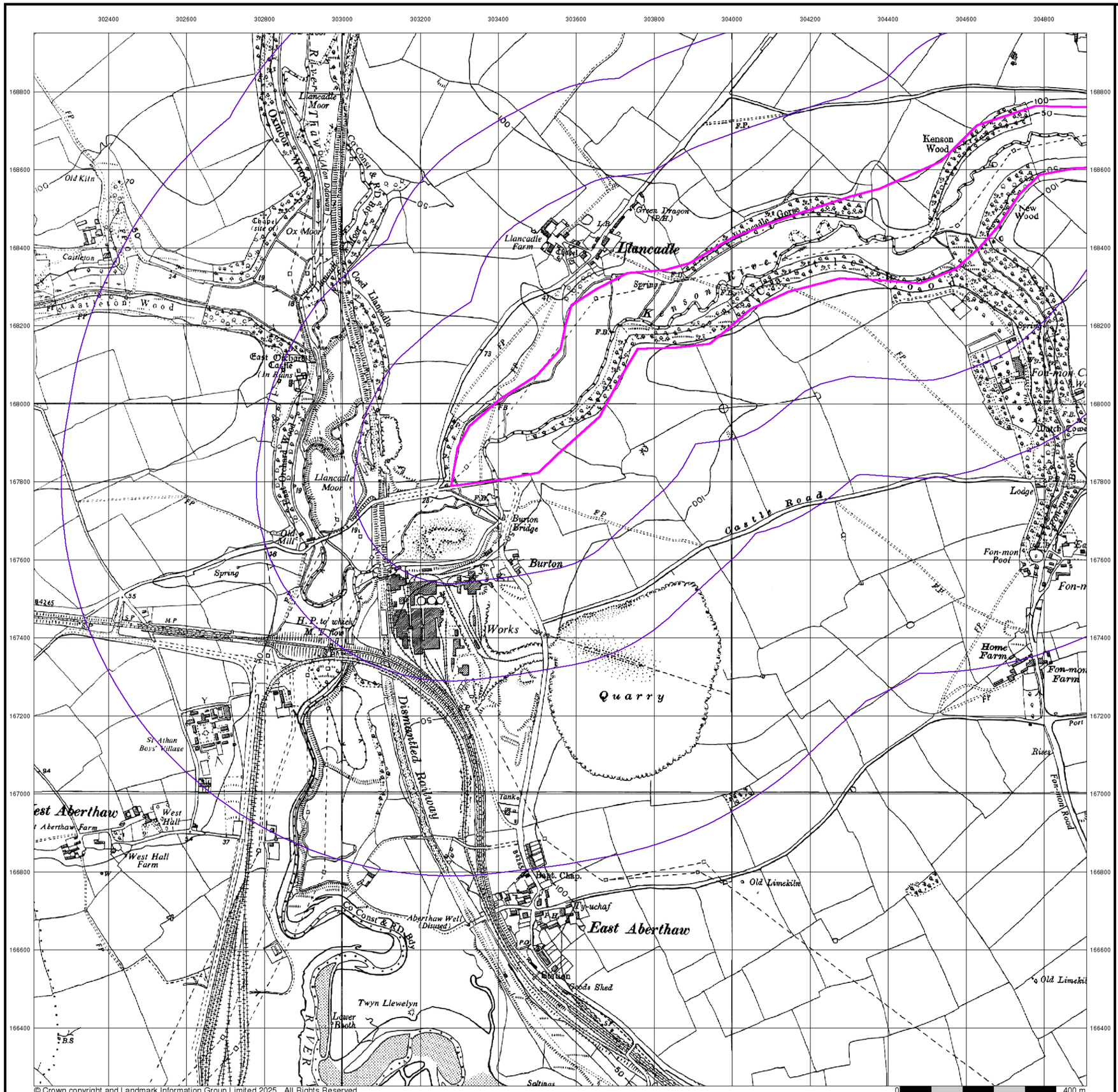

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Ordnance Survey Plan

Published 1969

Source map scale - 1:10,000

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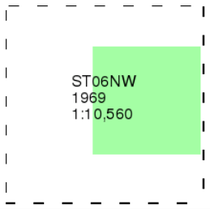
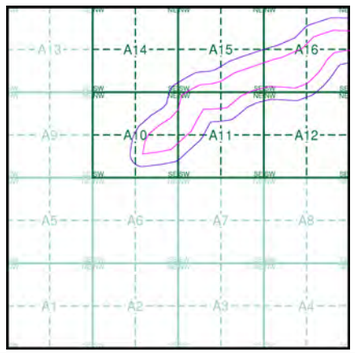


Historical Map - Slice A



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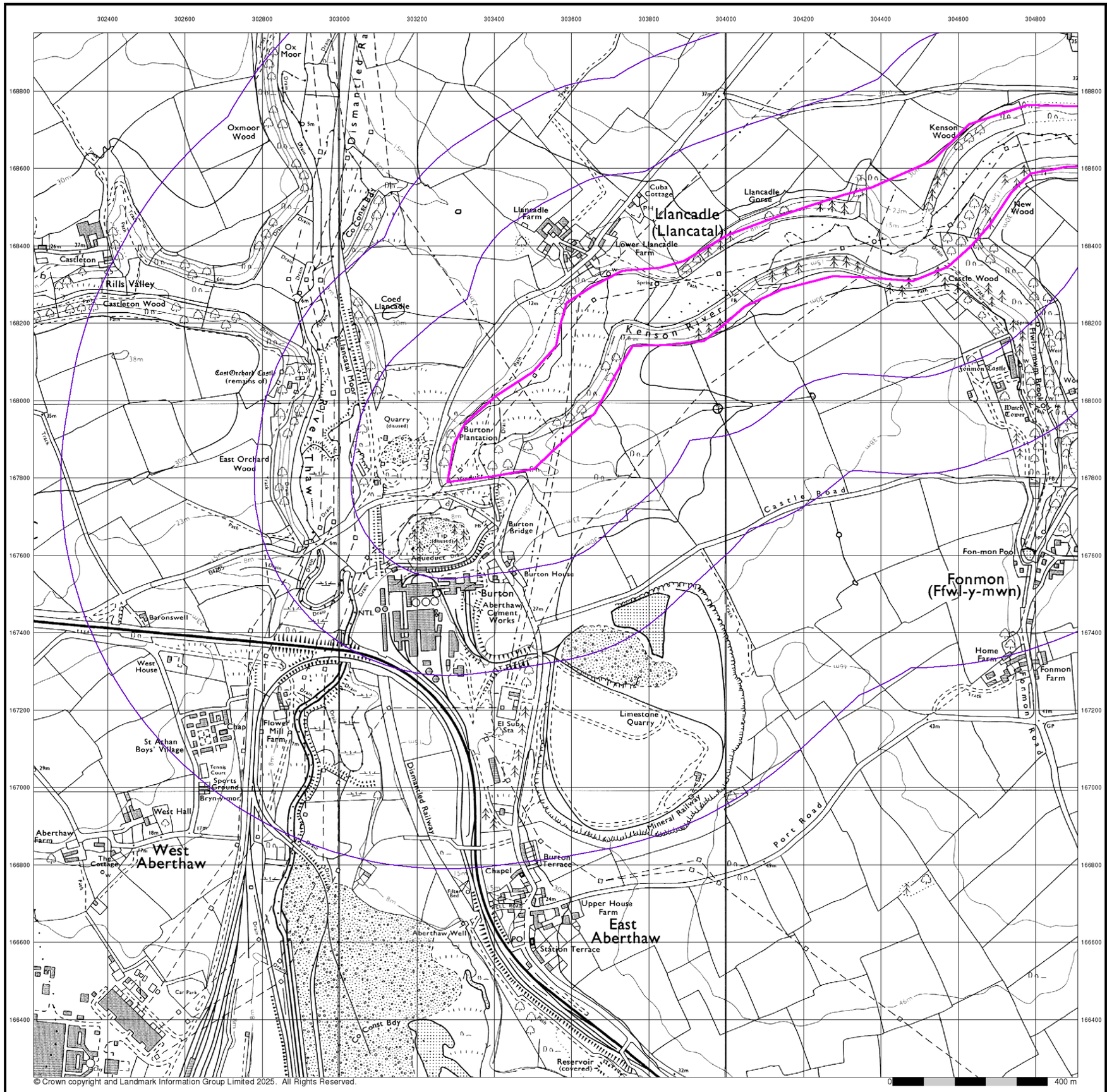

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Ordnance Survey Plan

Published 1975

Source map scale - 1:10,000

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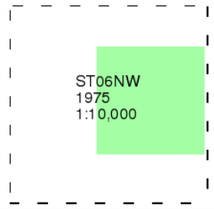
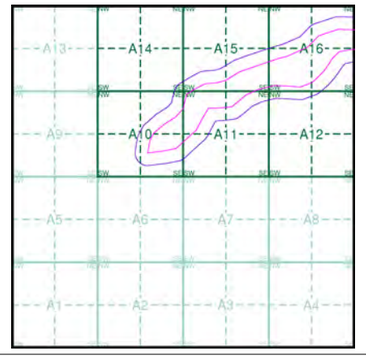


Historical Map - Slice A



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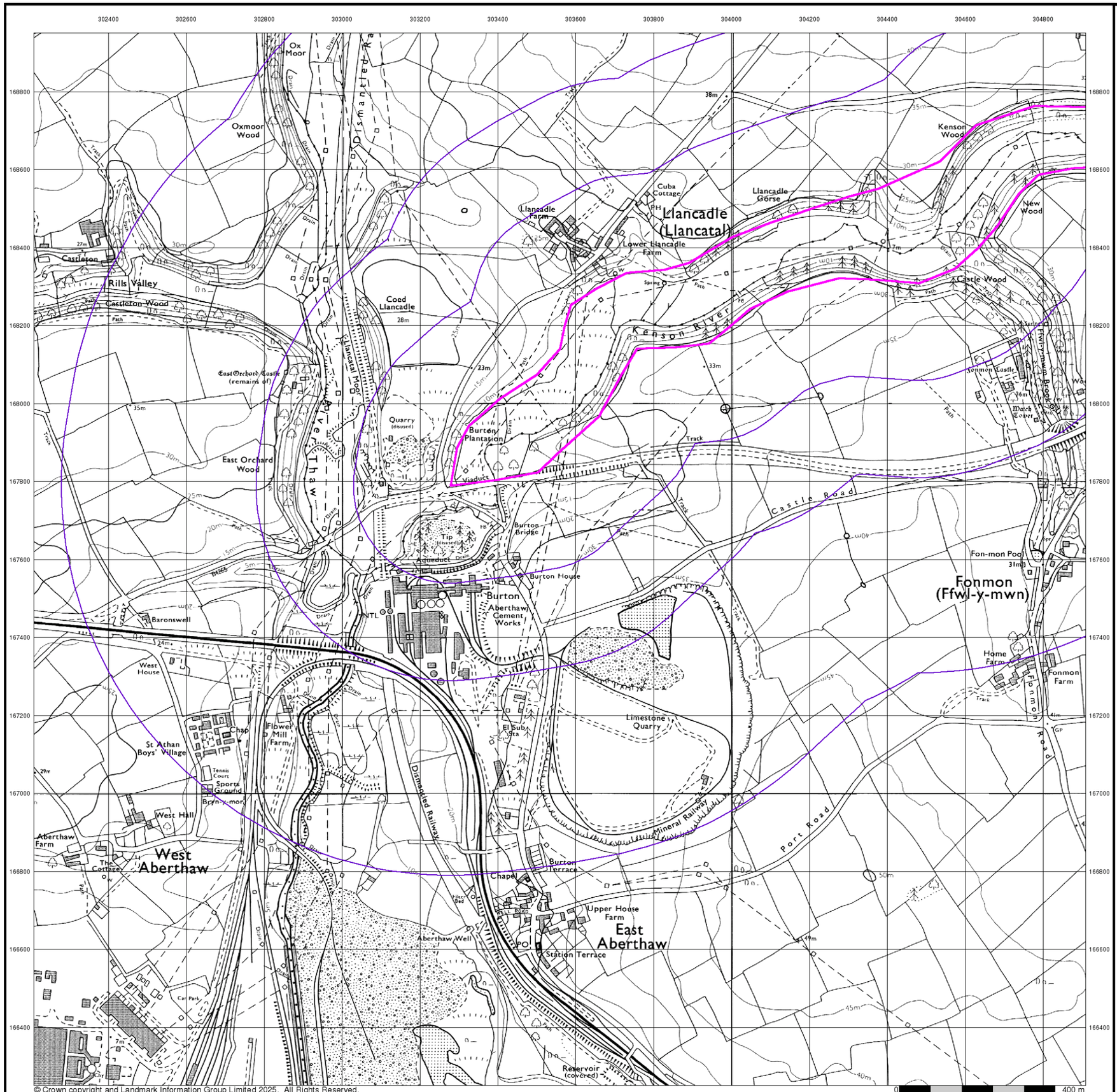

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Ordnance Survey Plan

Published 1984

Source map scale - 1:10,000

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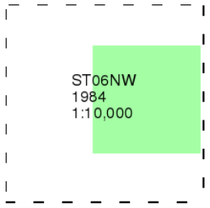
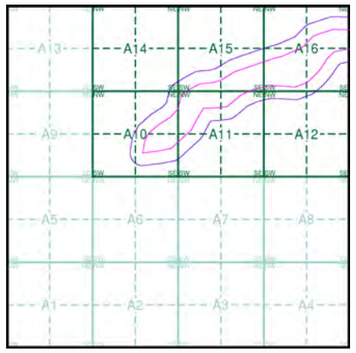


Historical Map - Slice A



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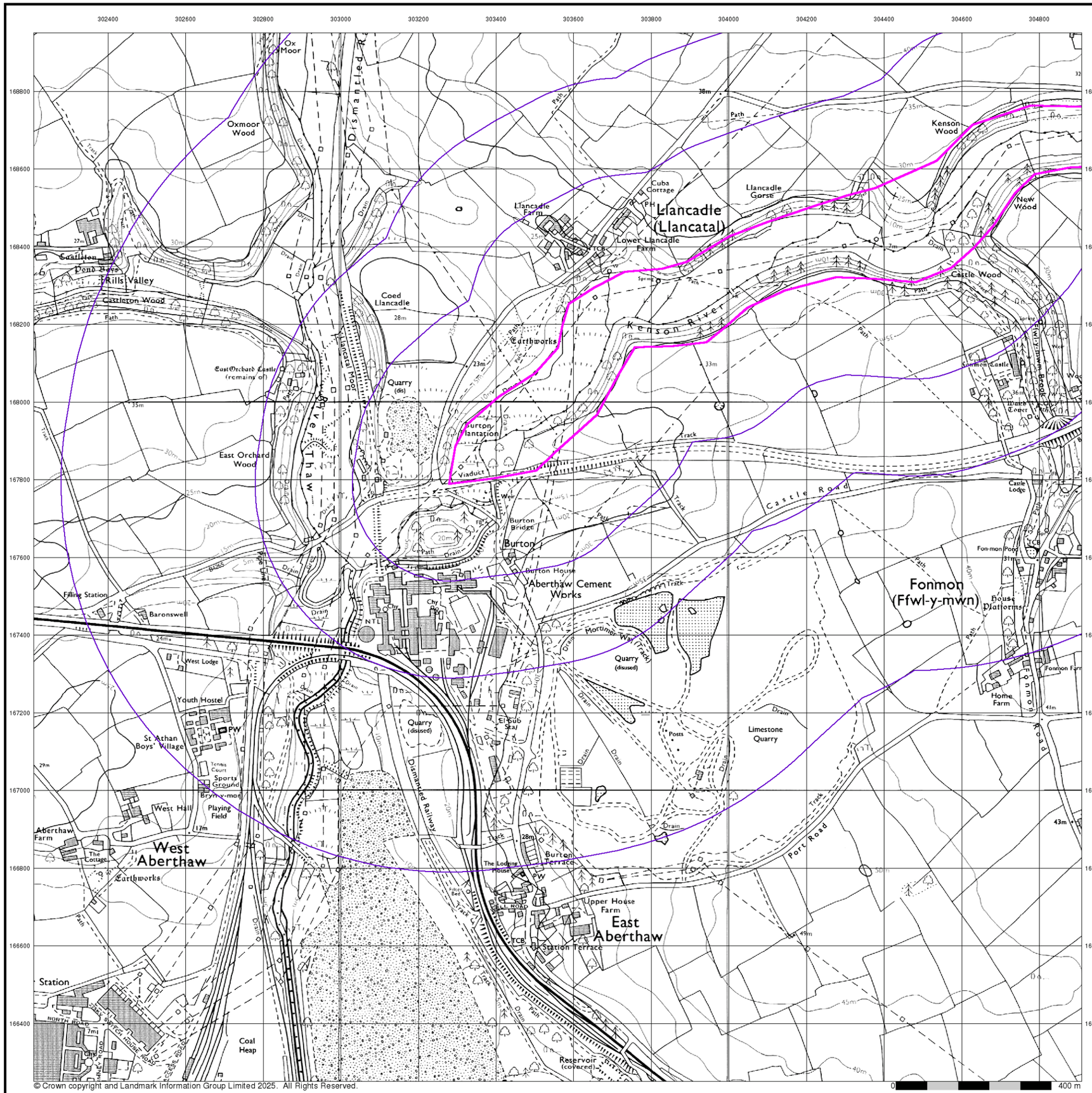

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Ordnance Survey Plan

Published 1990

Source map scale - 1:10,000

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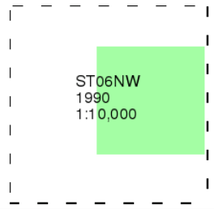
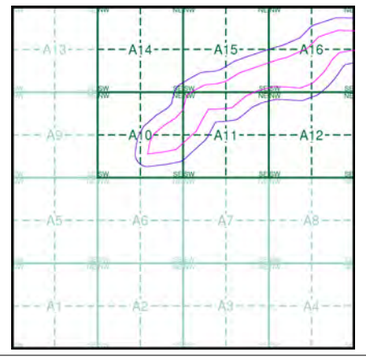


Historical Map - Slice A



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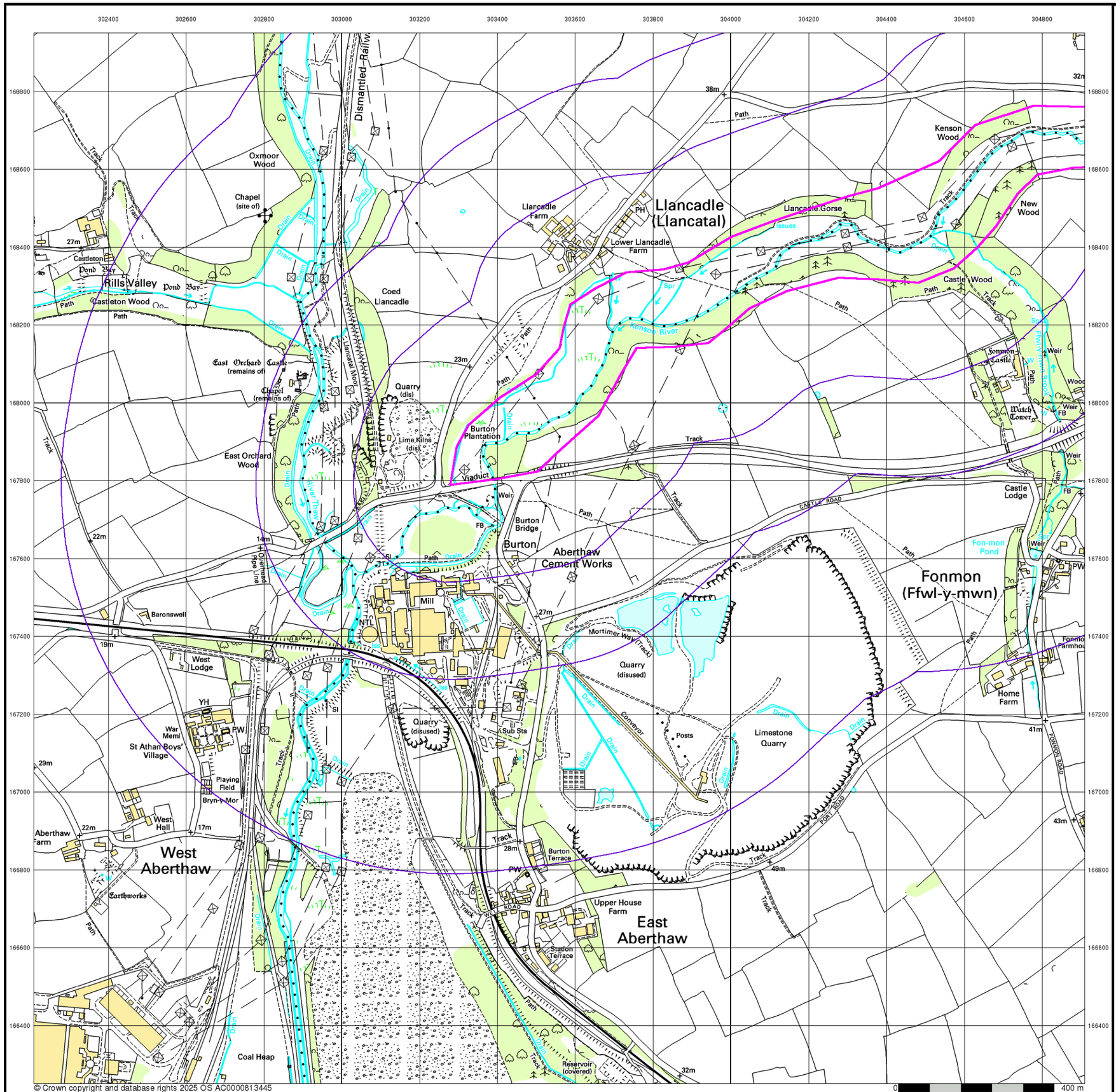

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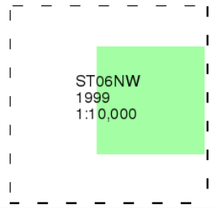
10k Raster Mapping

Published 1999

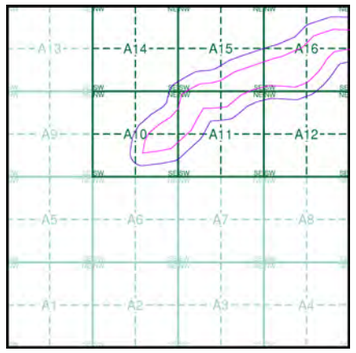
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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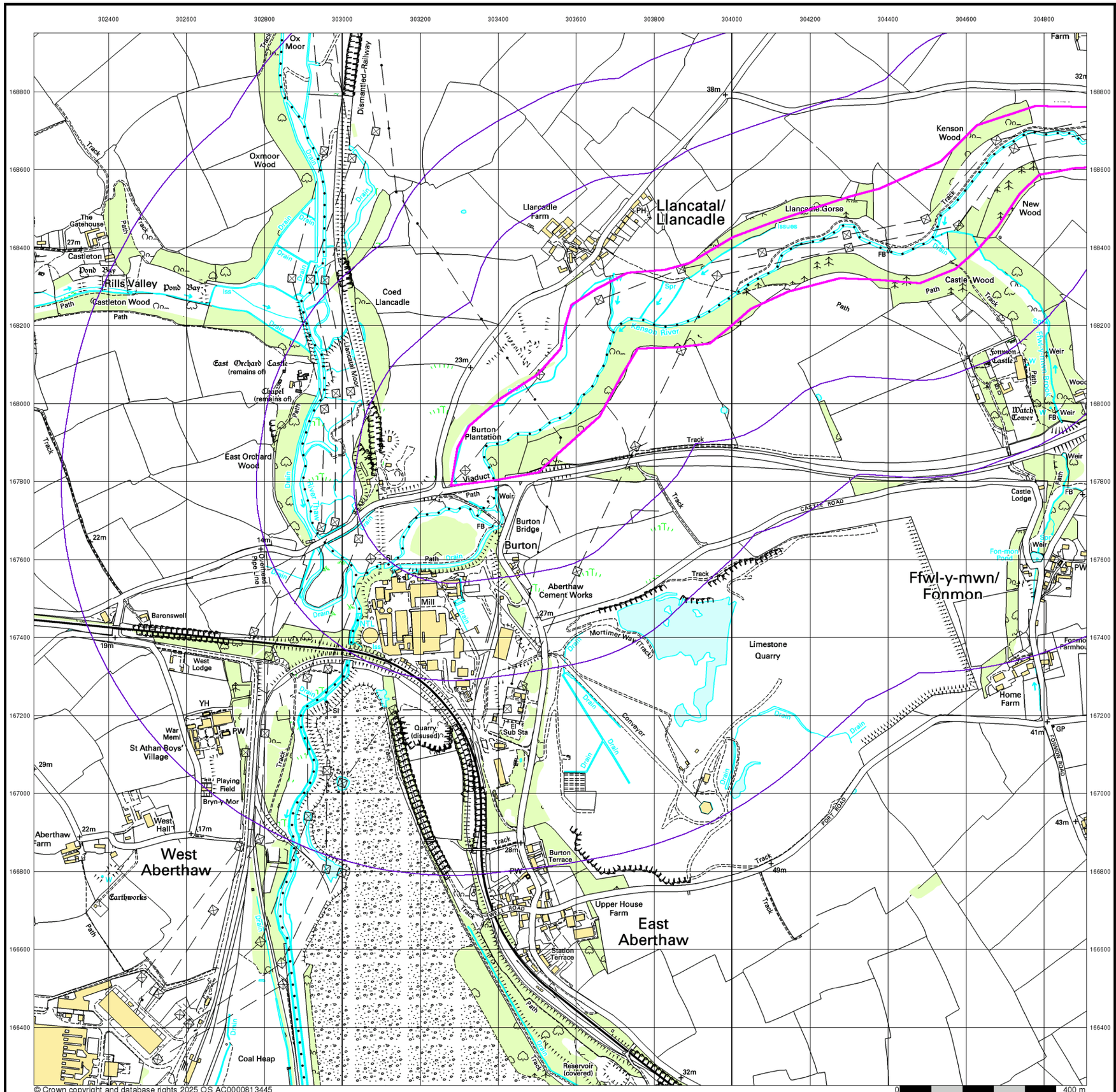

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10k Raster Mapping

Published 2006

Source map scale - 1:10,000

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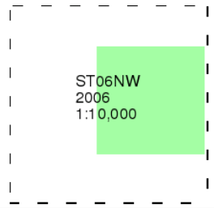
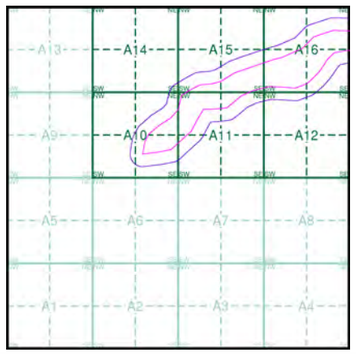


Historical Map - Slice A



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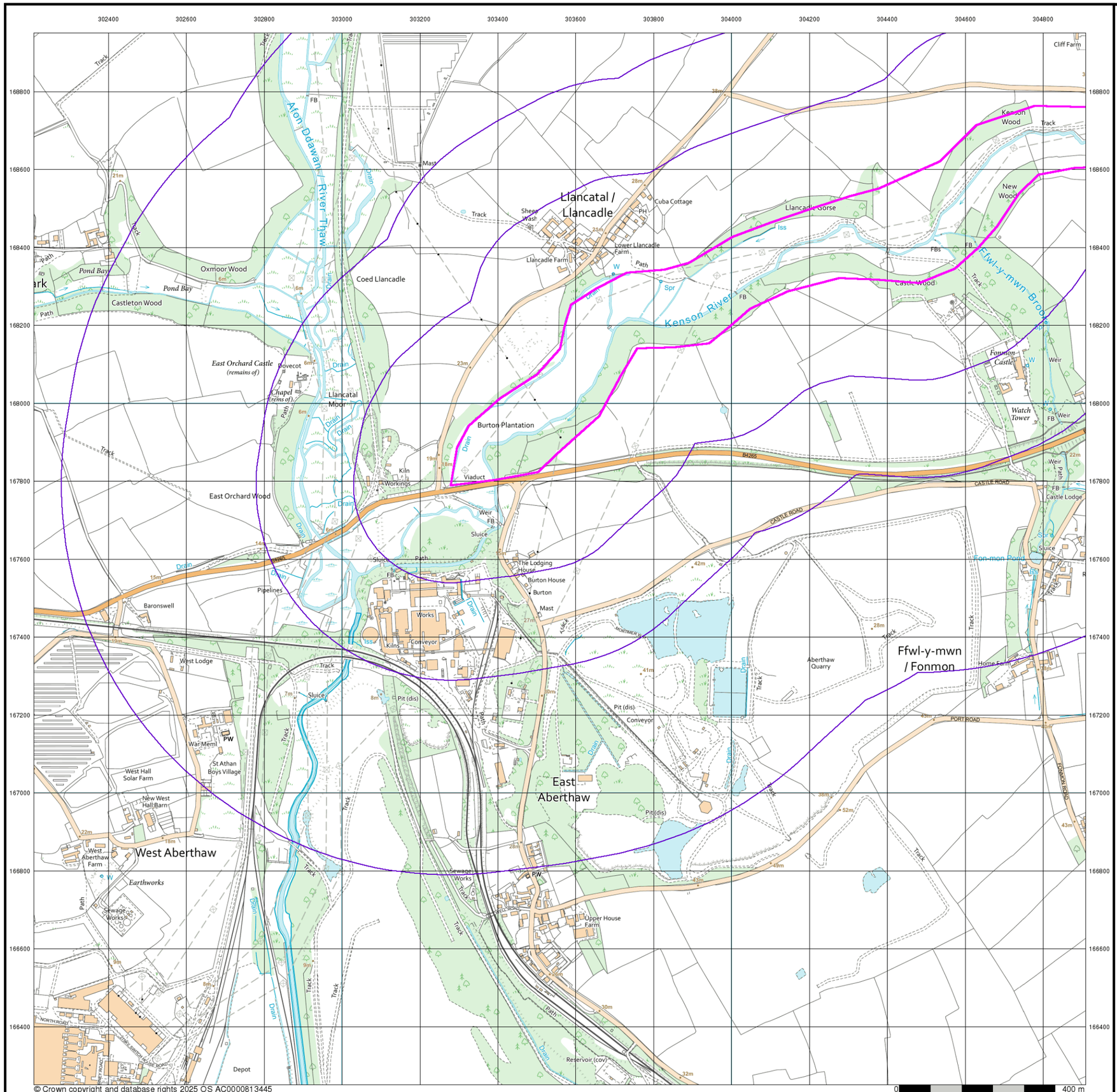

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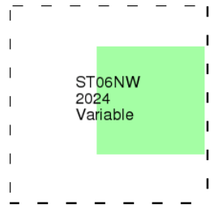
VectorMap Local

Published 2024

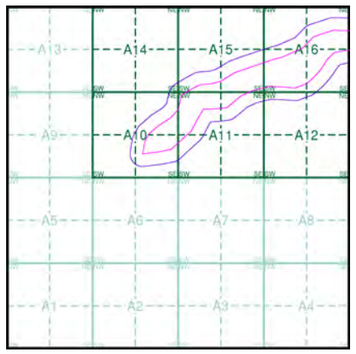
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

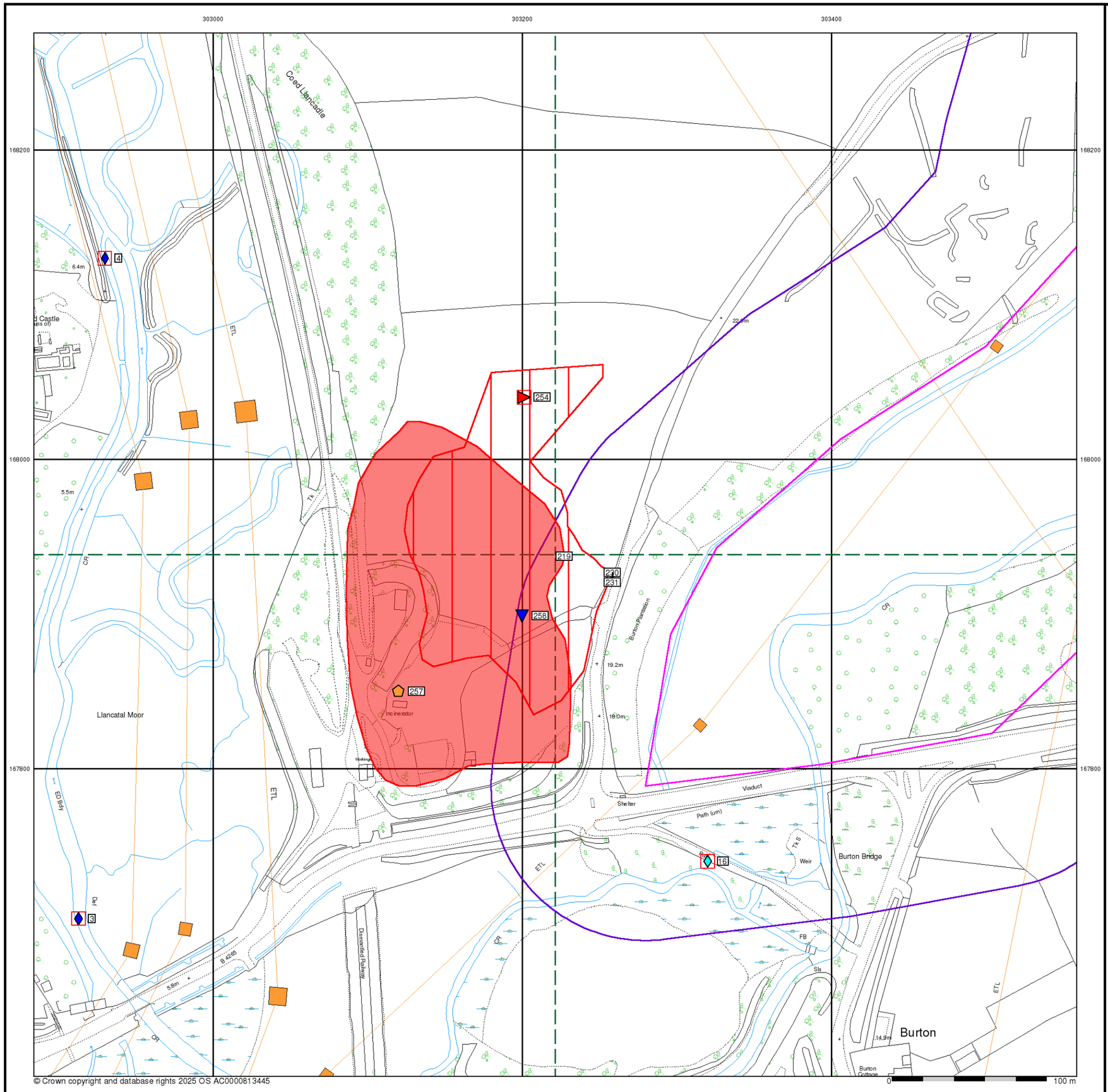
Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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



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Envirocheck®

LANDMARK INFORMATION GROUP®

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
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- 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

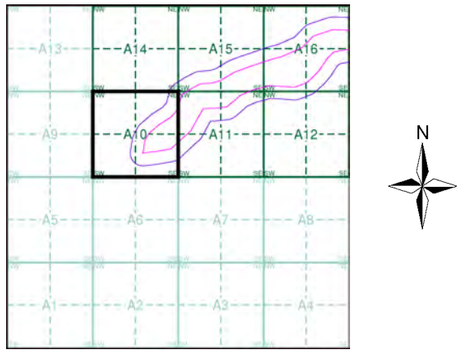
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A10



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Plot Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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Fax: 0844 844 9951
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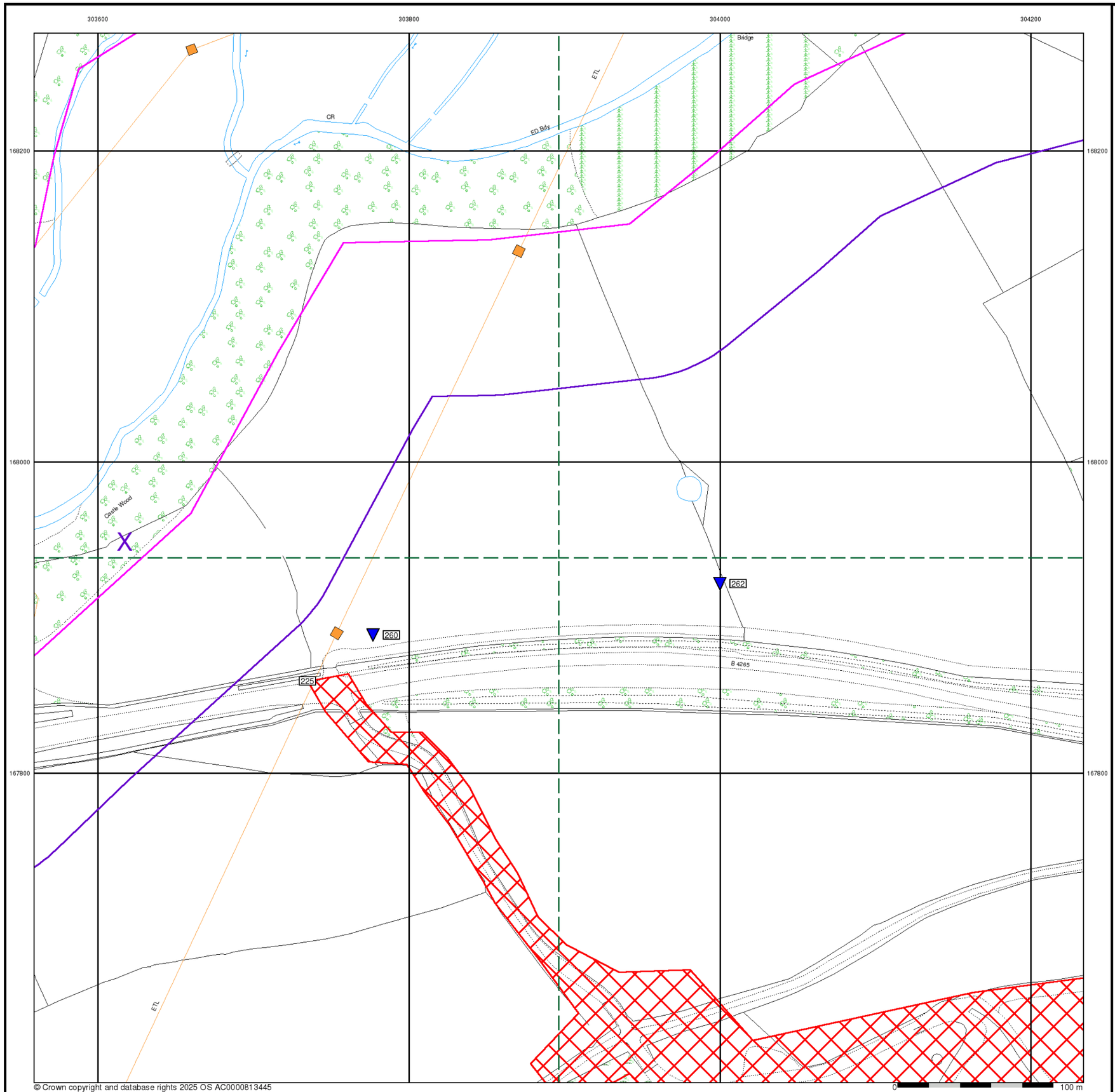

Envirocheck®

LANDMARK INFORMATION GROUP®

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
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
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Waste

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- BGS Recorded Landfill Site
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- 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

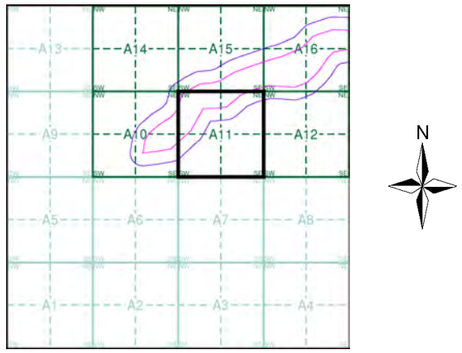
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A11



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Plot Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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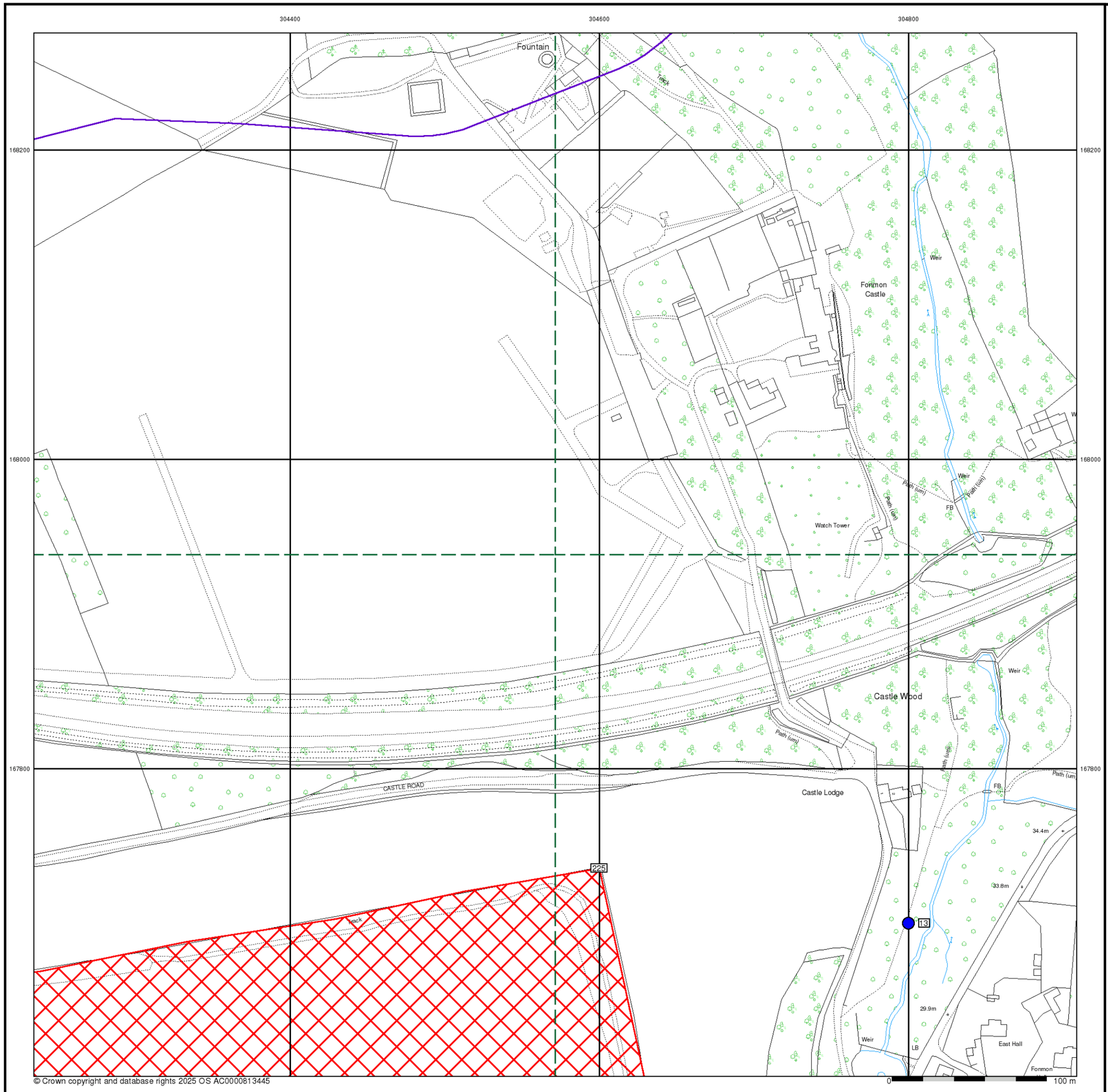

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Envirocheck®

LANDMARK INFORMATION GROUP®

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
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- Pollution Incident to Controlled Waters
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
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- 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

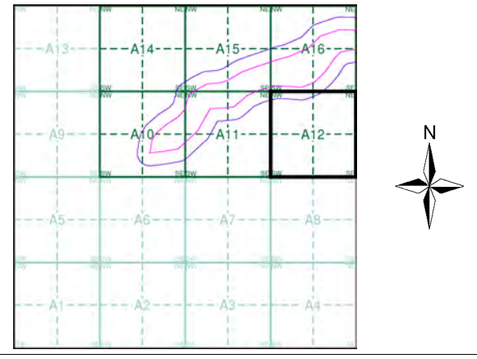
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A12



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Plot Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP
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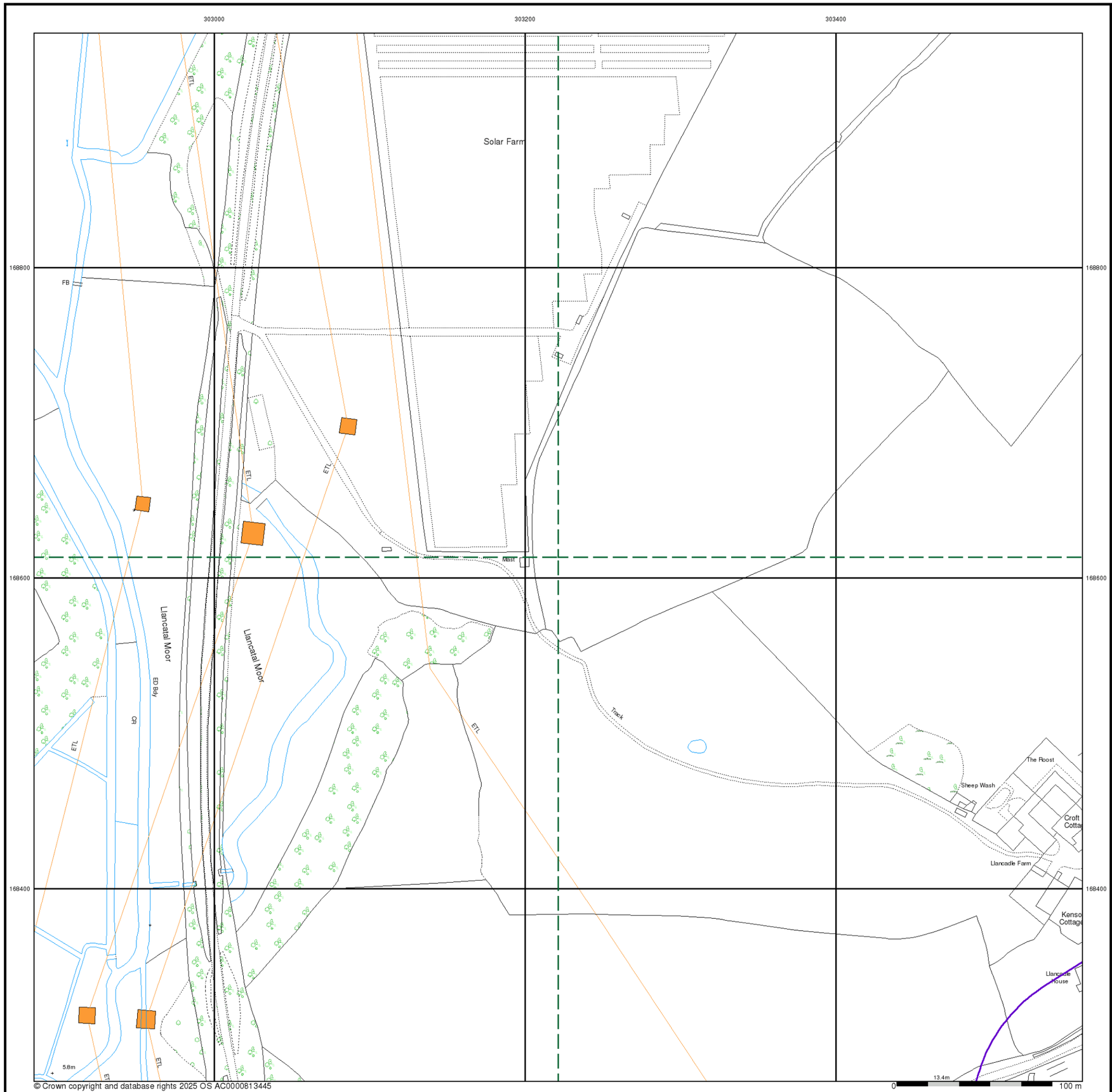
Web: www.envirocheck.co.uk



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Envirocheck®

LANDMARK INFORMATION GROUP®

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
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Waste

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- Potentially Infilled Land (Water)
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- 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

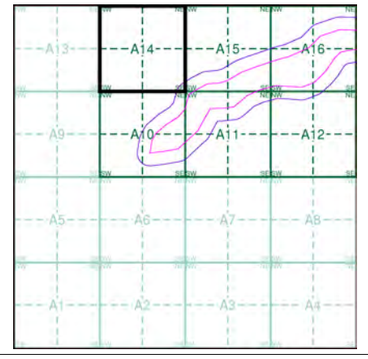
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A14



Order Details

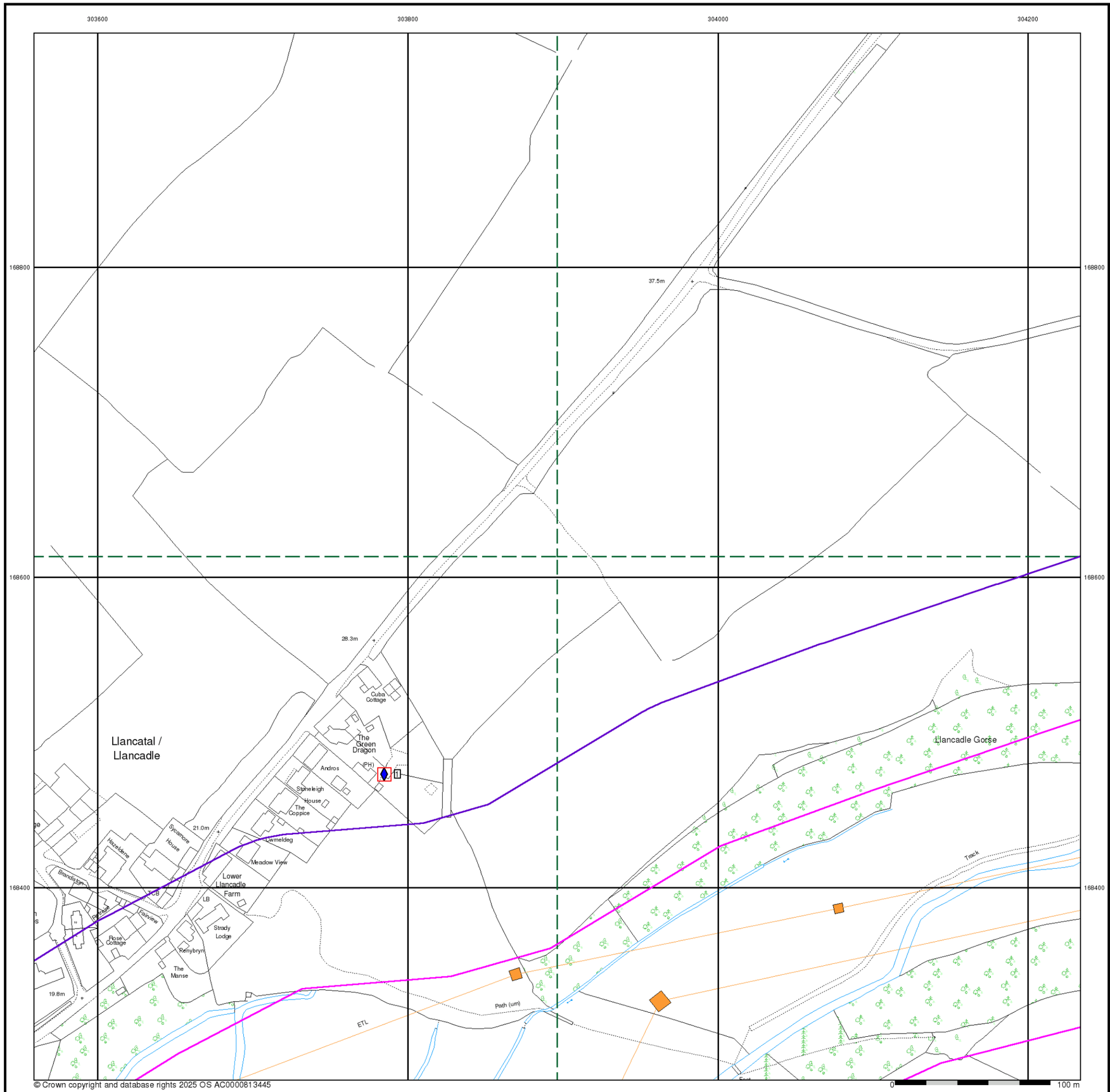
Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Plot Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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



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Envirocheck®
LANDMARK INFORMATION GROUP®

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
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Waste

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- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
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- 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

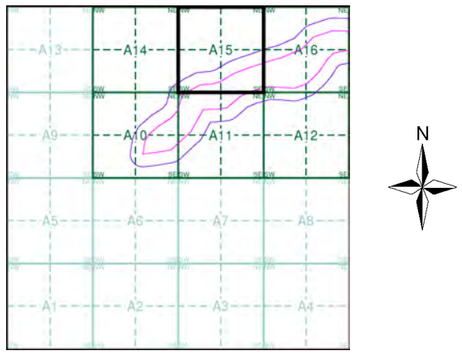
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A15



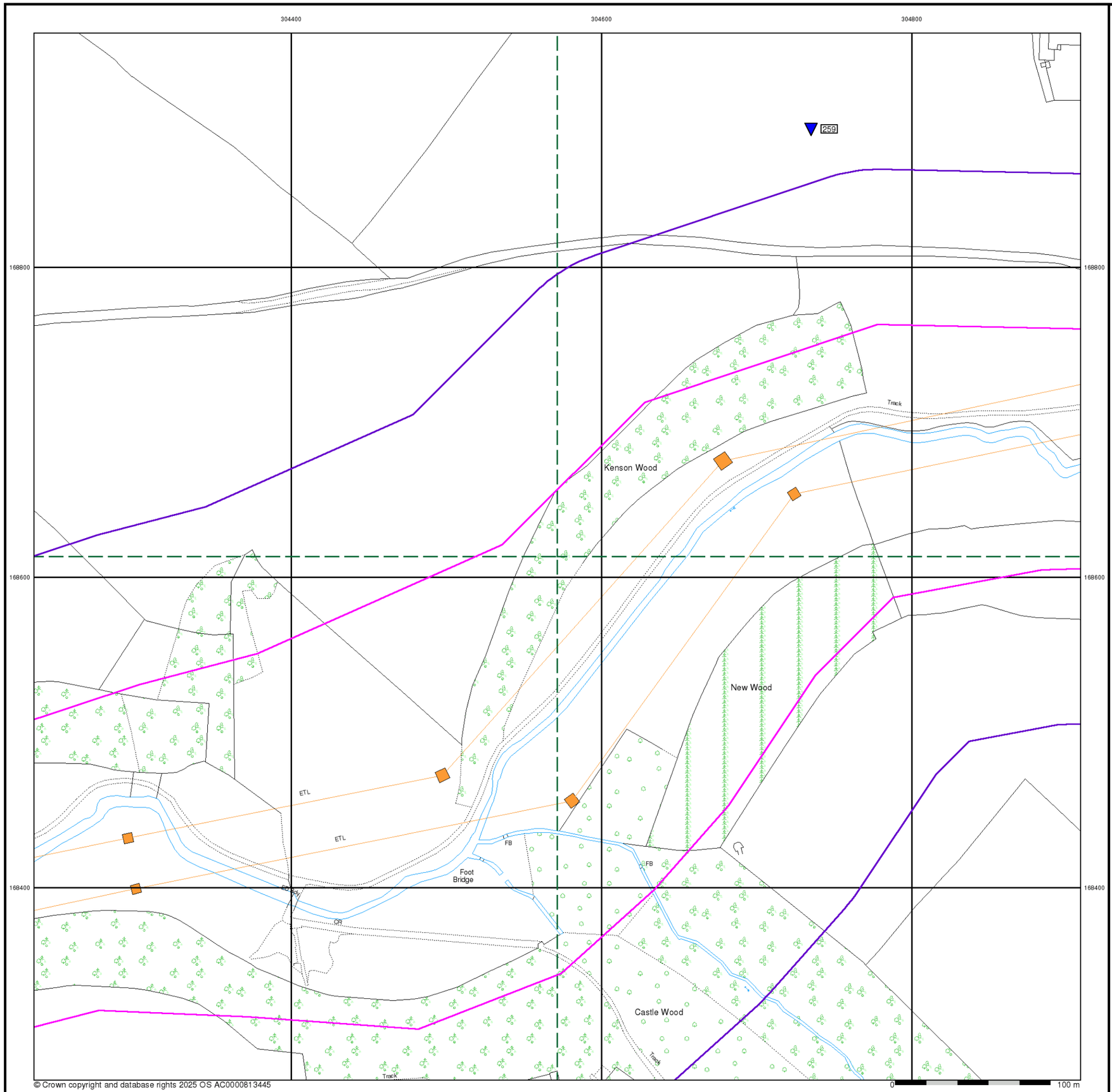
Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Plot Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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



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Envirocheck®
LANDMARK INFORMATION GROUP®

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
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- Integrated Pollution Control
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- Local Authority Pollution Prevention and Control Enforcement
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- Historical Prosecutions
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- Registered Radioactive Substance
- River Network or Water Feature
- 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)
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- Local Authority Recorded Landfill Site
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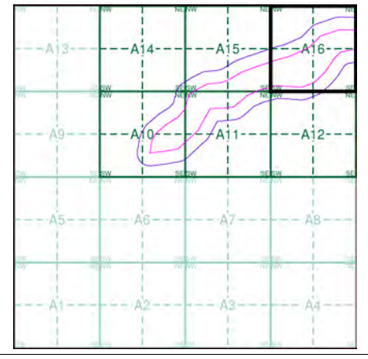
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A16



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Plot Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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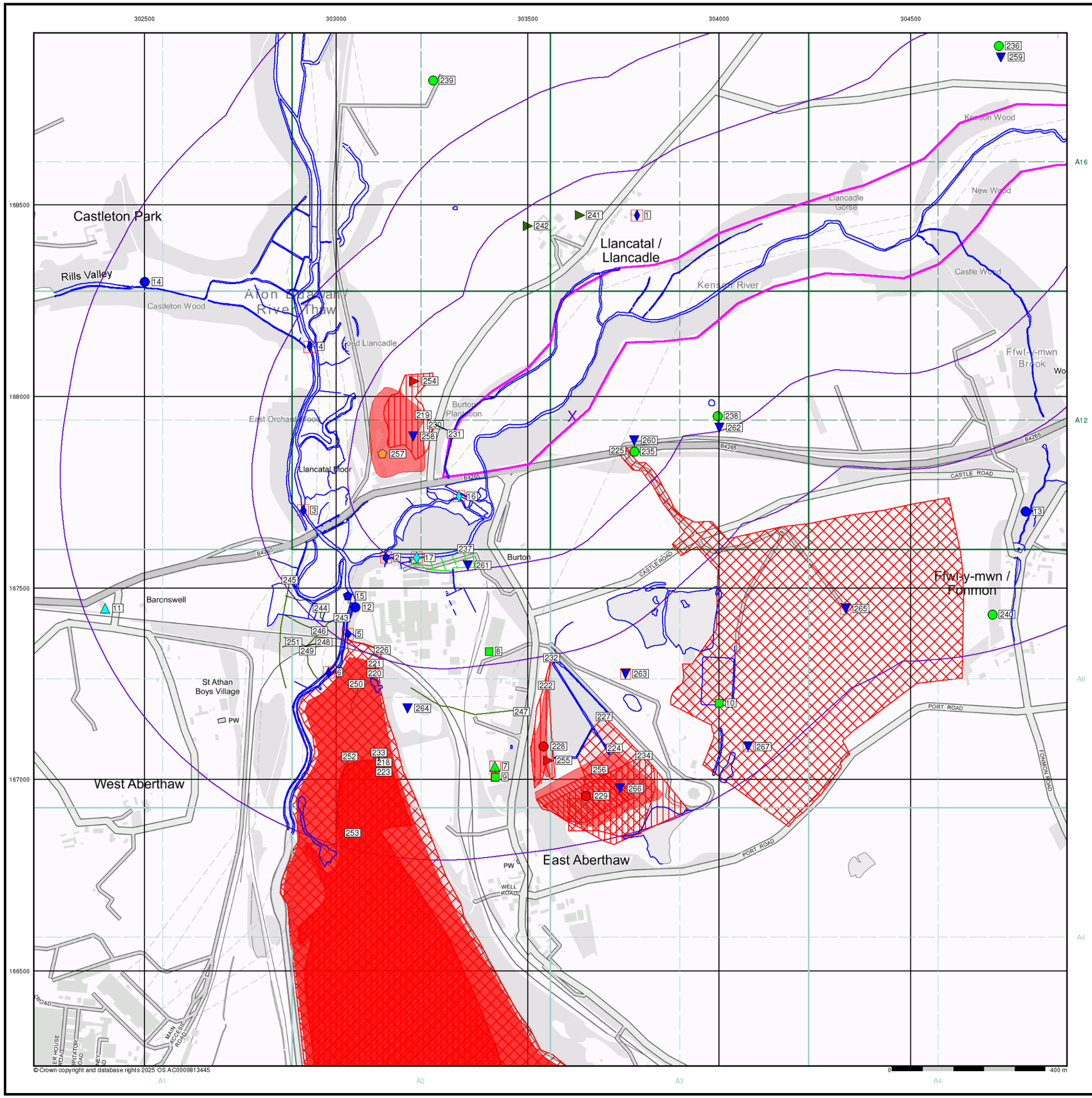

Envirocheck

LANDMARK INFORMATION GROUP®

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
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- Registered Landfill Site (Location)
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- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

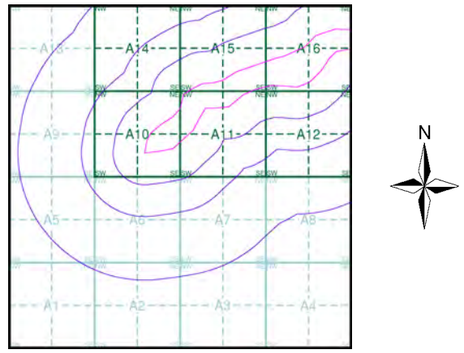
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

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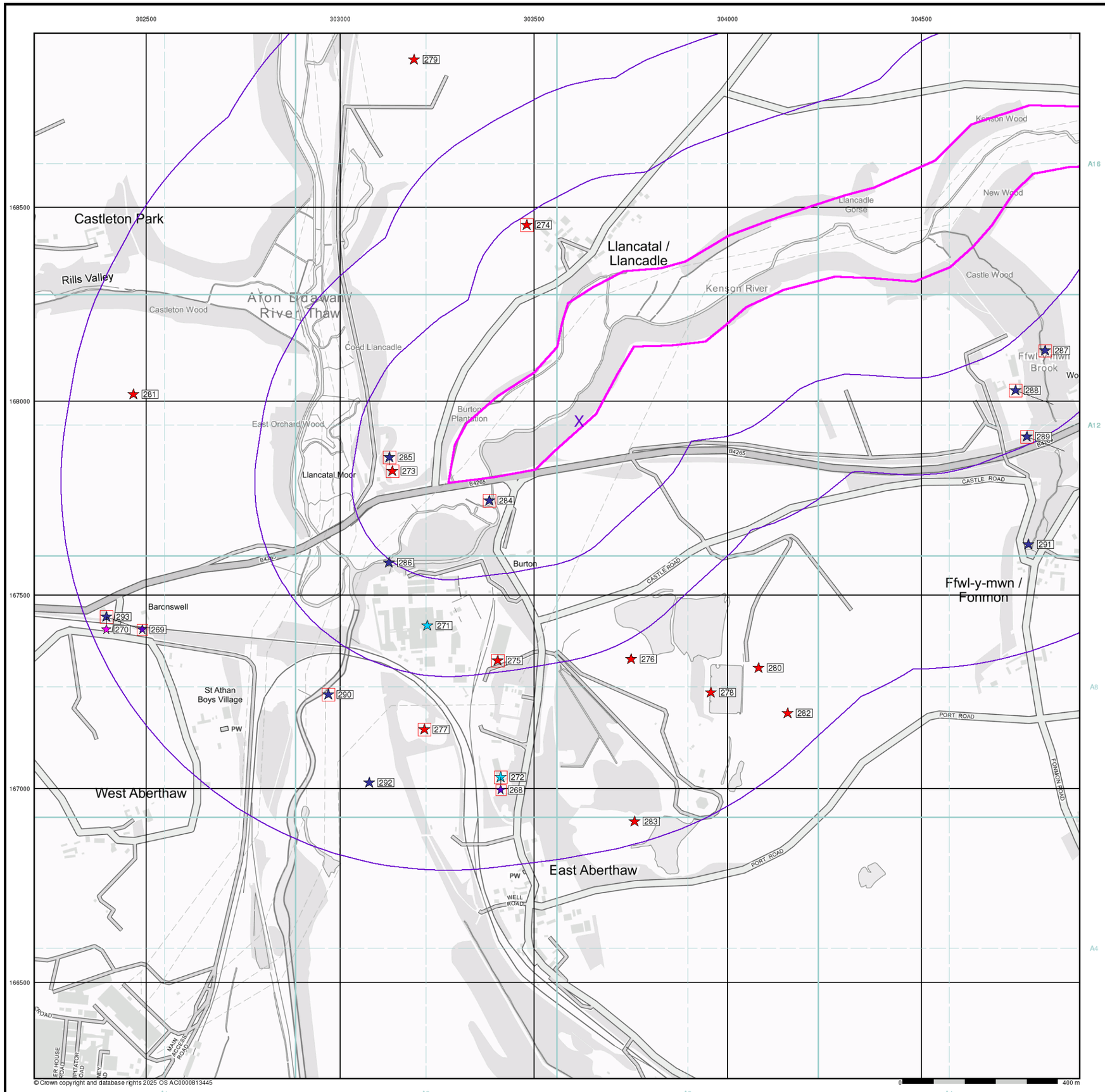

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Industrial Land Use Map

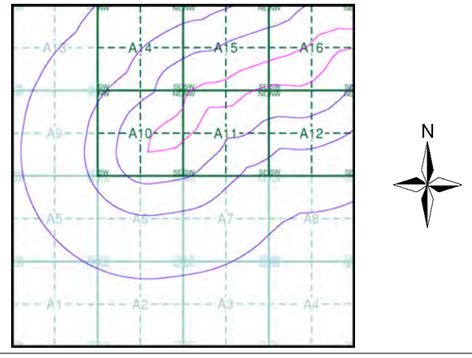
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- 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



Order Details

Order Number:	367701071_1_1
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Slice:	A
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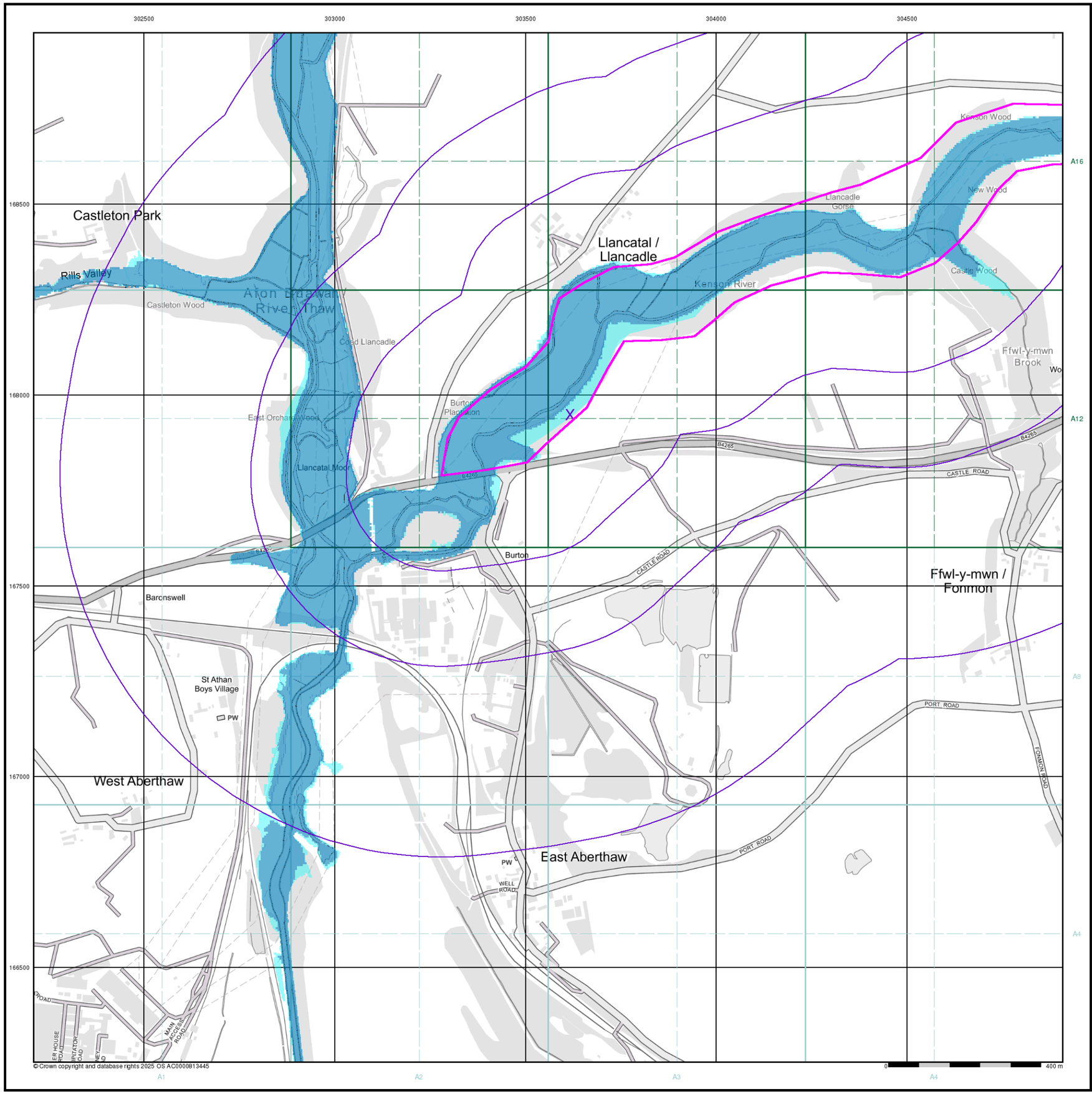


Envirocheck®

LANDMARK INFORMATION GROUP®

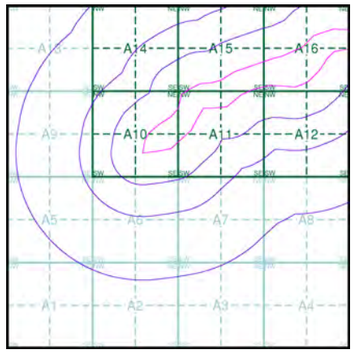
General

- 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

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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

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General

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

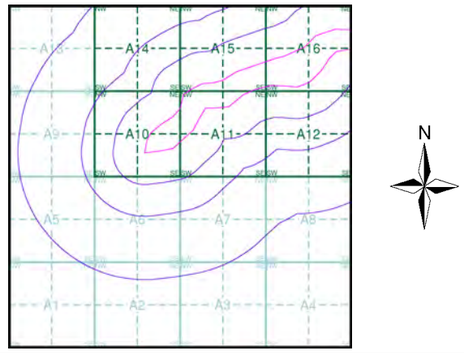
Agency and Hydrological (Boreholes)

- 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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Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
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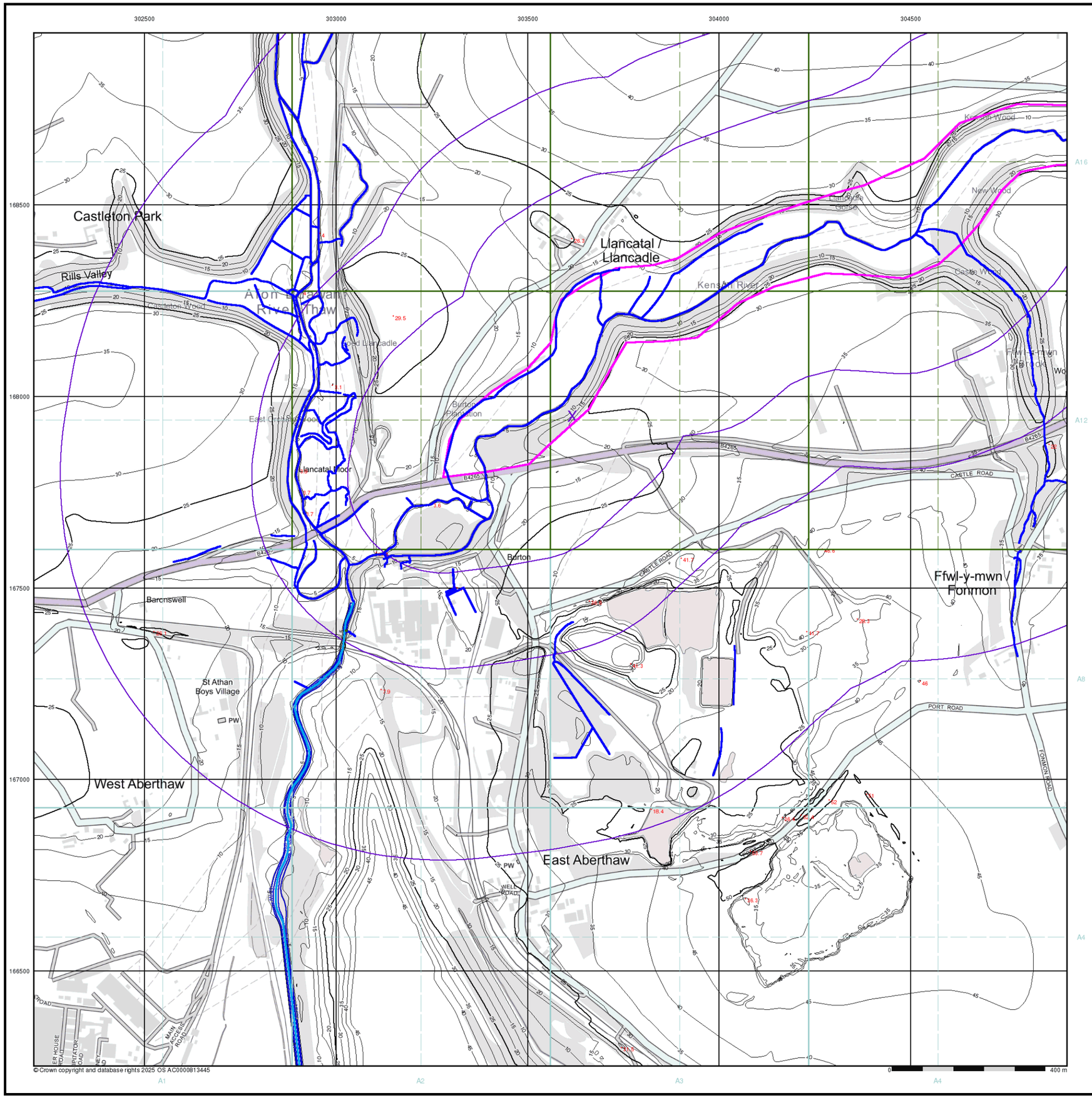

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LANDMARK INFORMATION GROUP®

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)

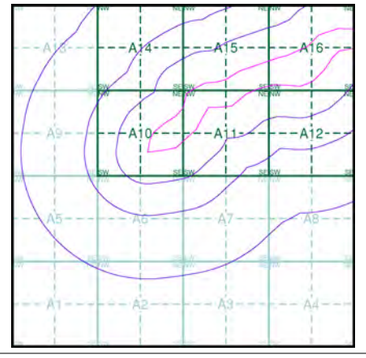
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



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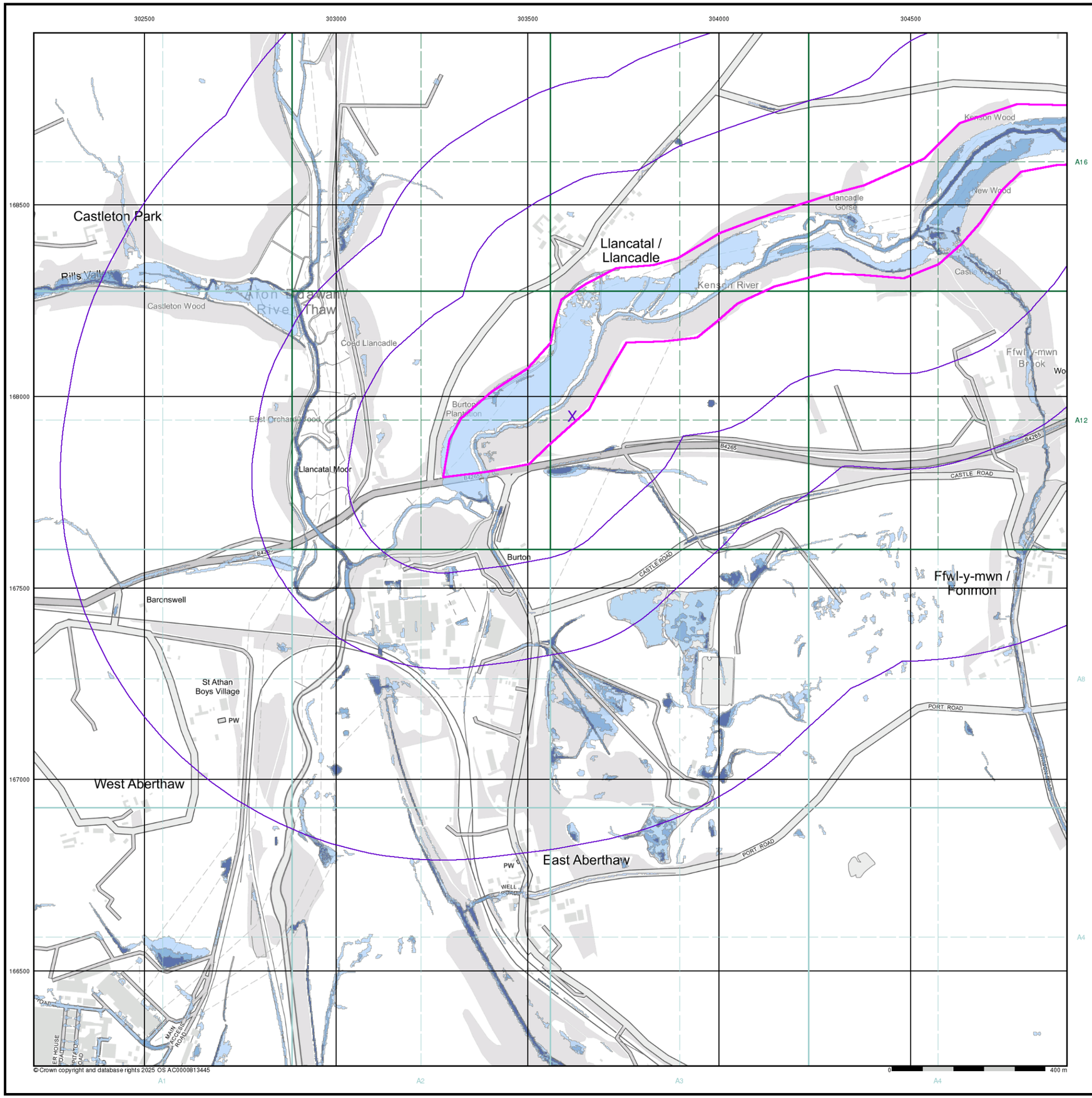

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LANDMARK INFORMATION GROUP®

General

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

Risk of Flooding from Surface Water

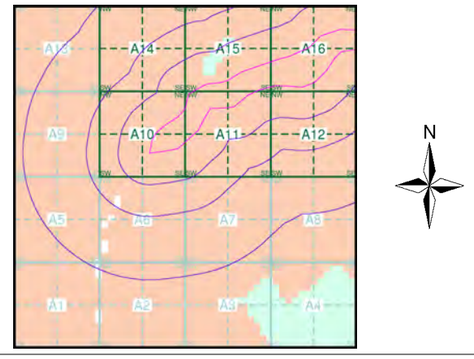
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice A



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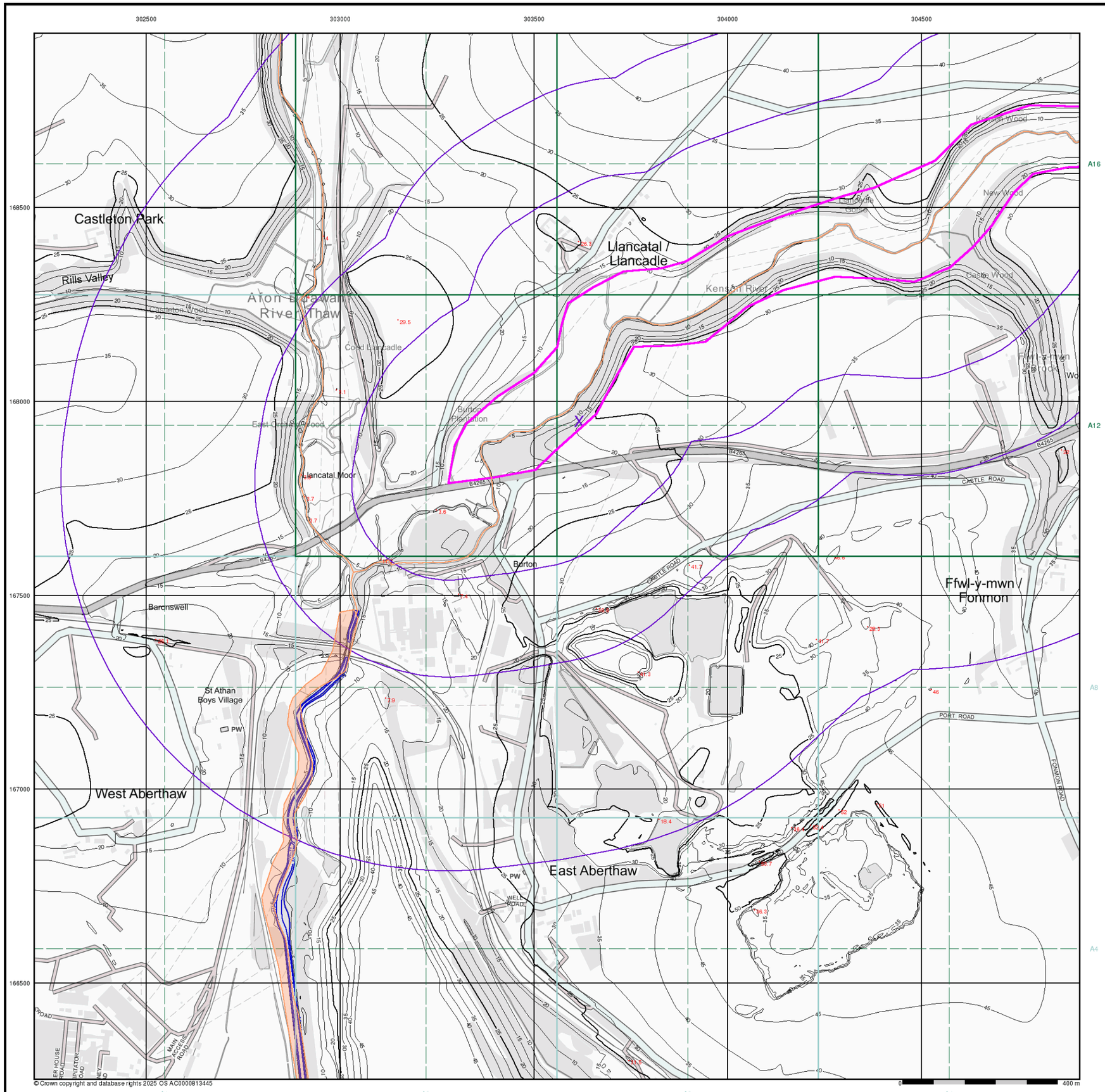

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WFD Surface Waters Map

General

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

Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

Standard Contour 105 100 95

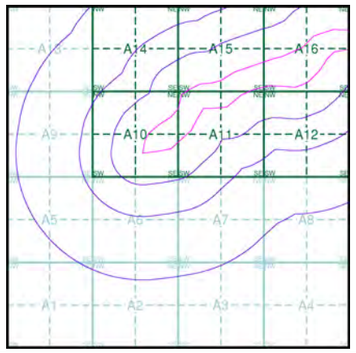
Master Contour

Spot Height 167.3

MLW Mean Low Water

MHW Mean High Water

WFD Surface Waters Map - Slice A



Order Details

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Slice:	A
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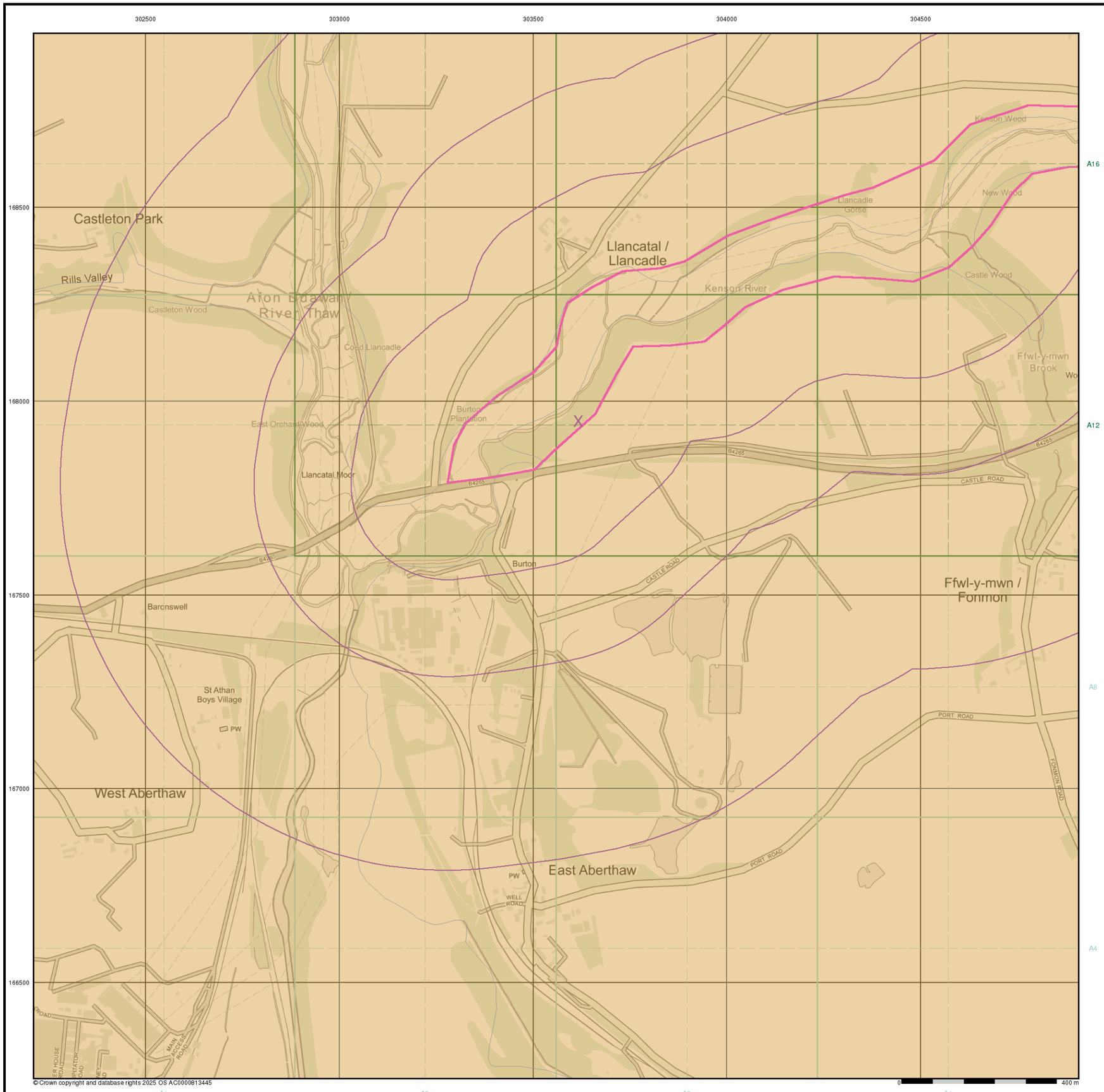


Envirocheck®

LANDMARK INFORMATION GROUP®

General

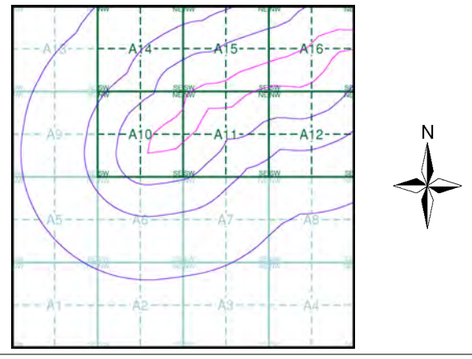
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



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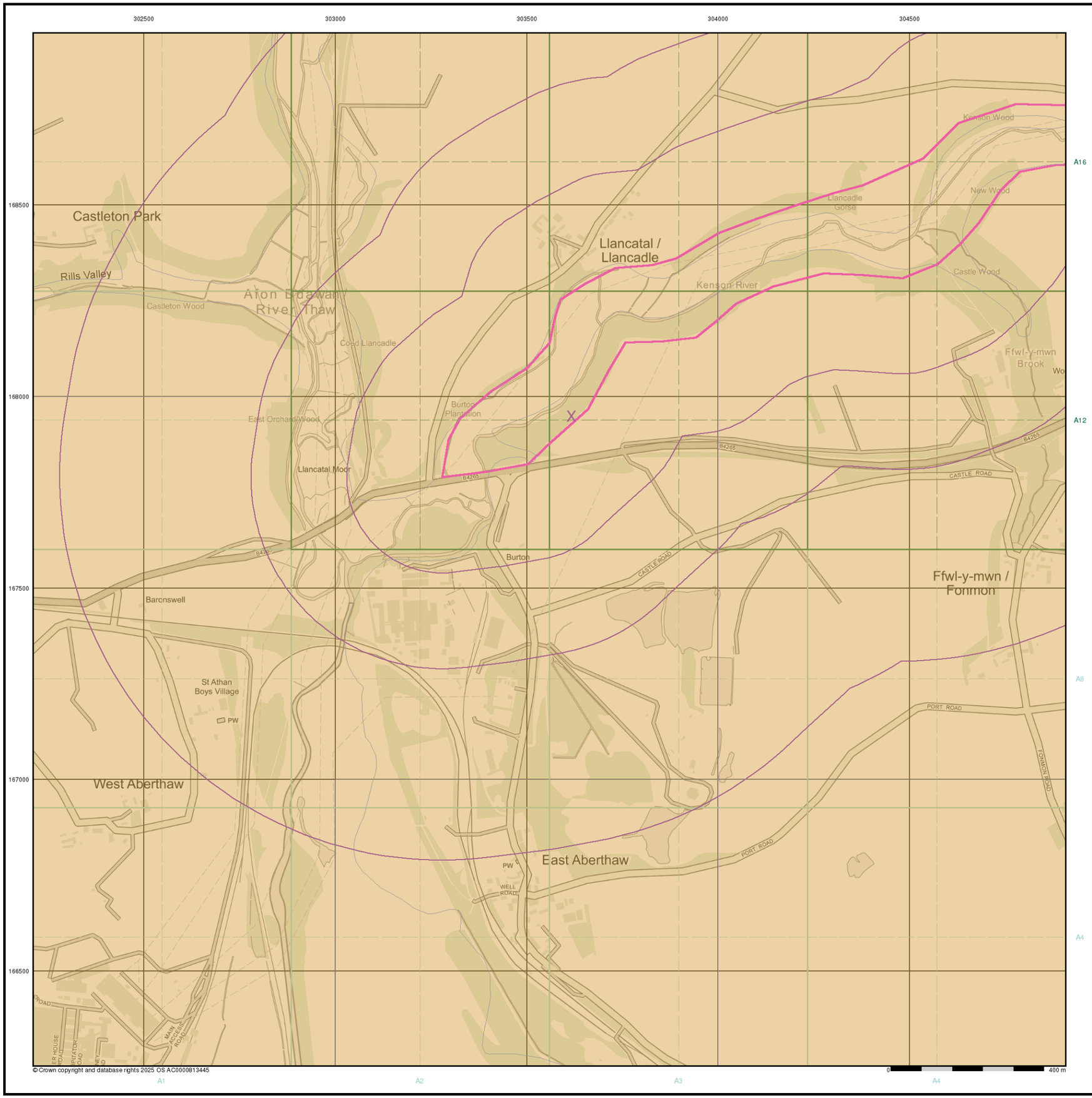

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LANDMARK INFORMATION GROUP®

General

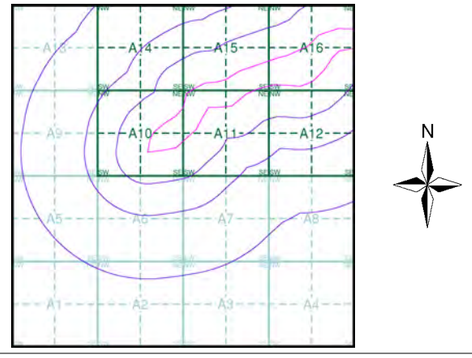
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

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

Estimated Soil Chemistry Cadmium - Slice A



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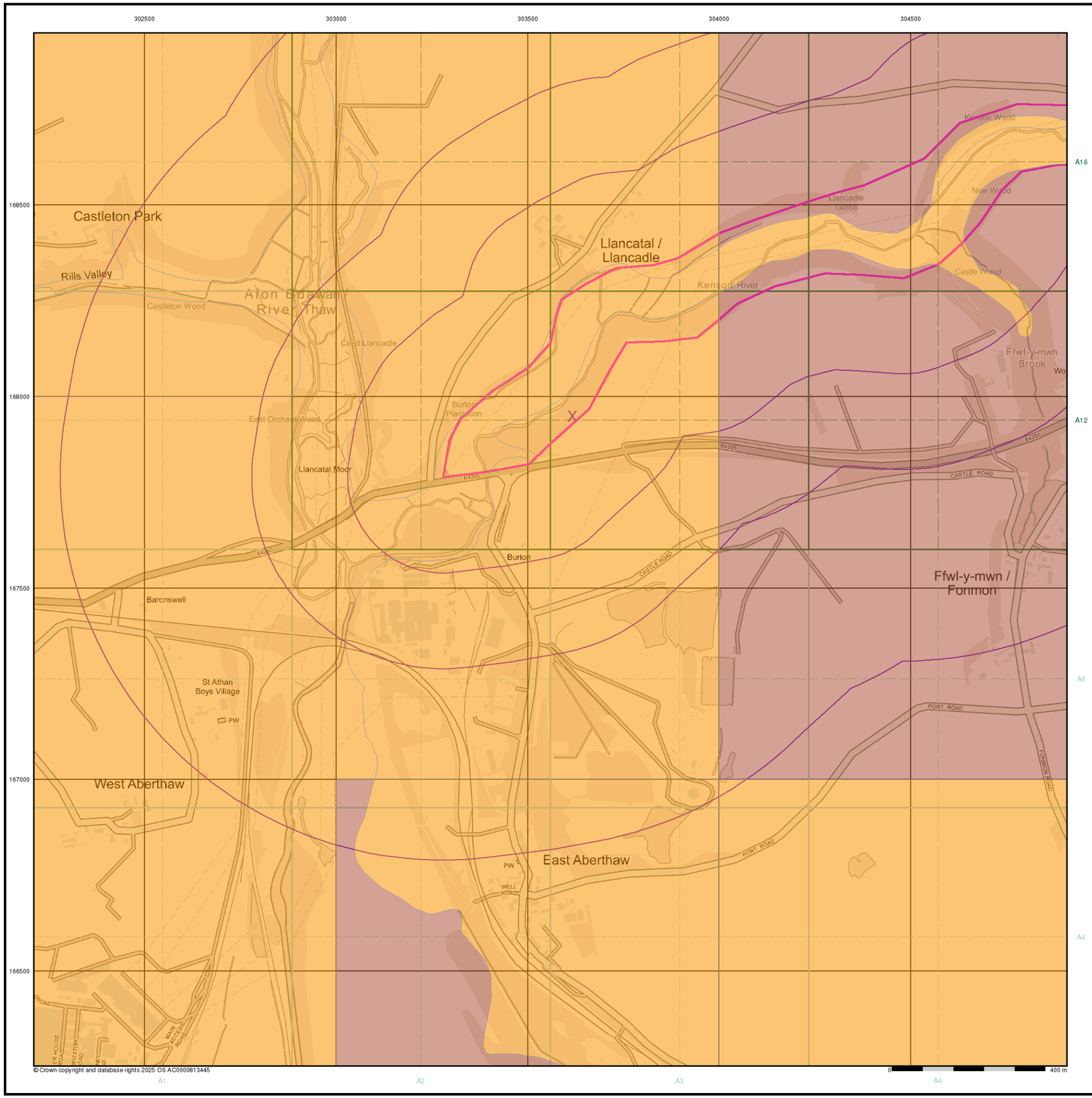


Envirocheck®

LANDMARK INFORMATION GROUP®

General

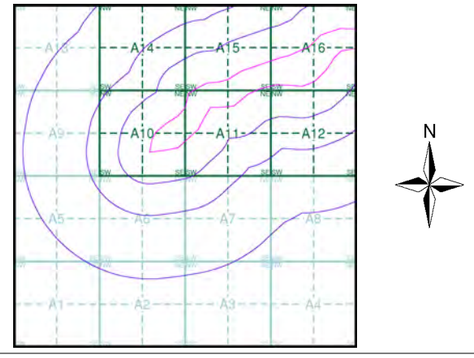
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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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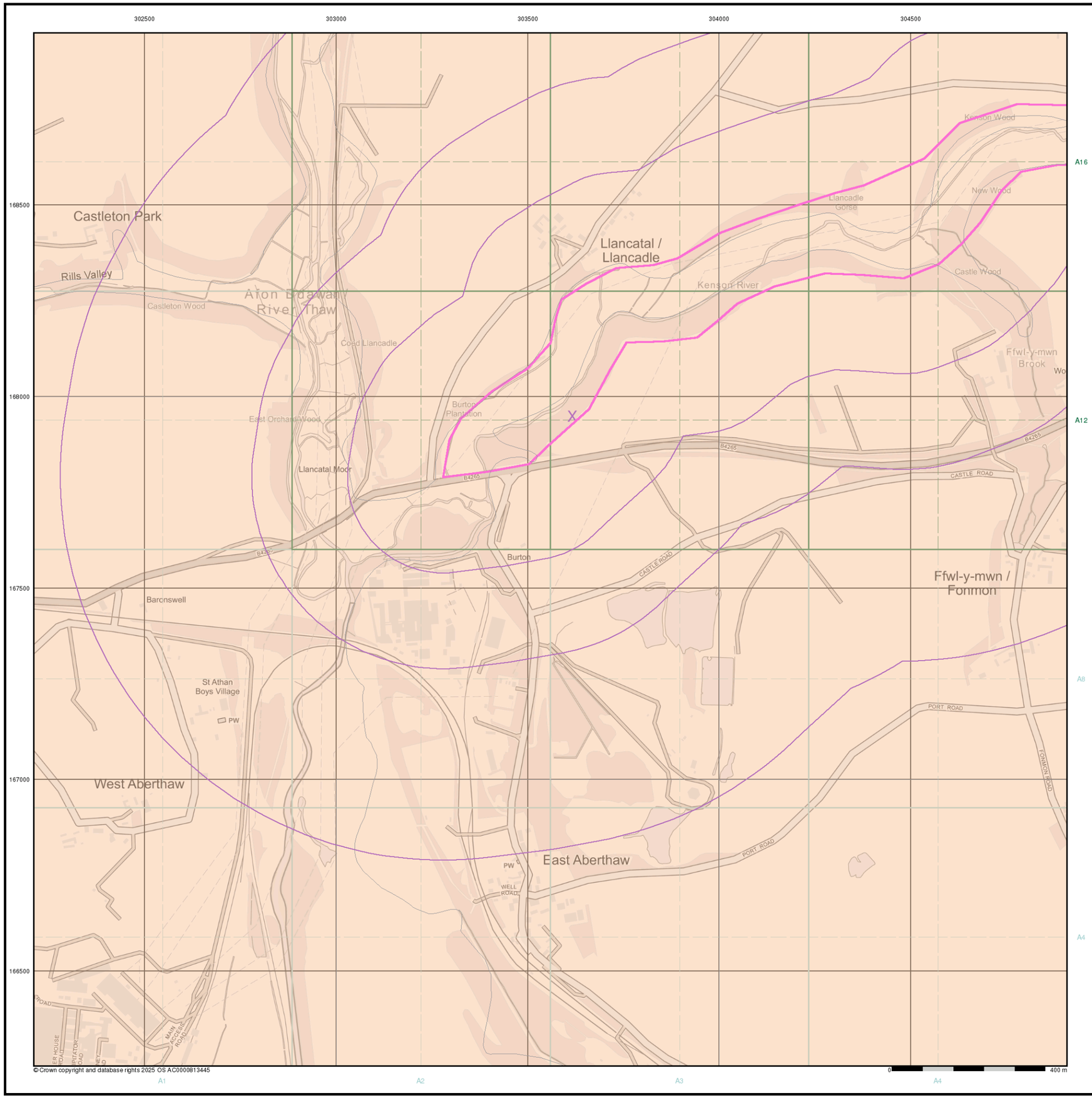

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LANDMARK INFORMATION GROUP®

General

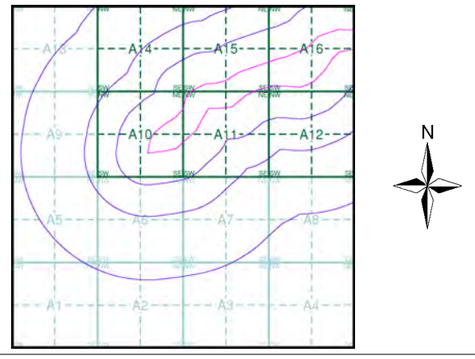
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



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Customer Ref:	2025s0023
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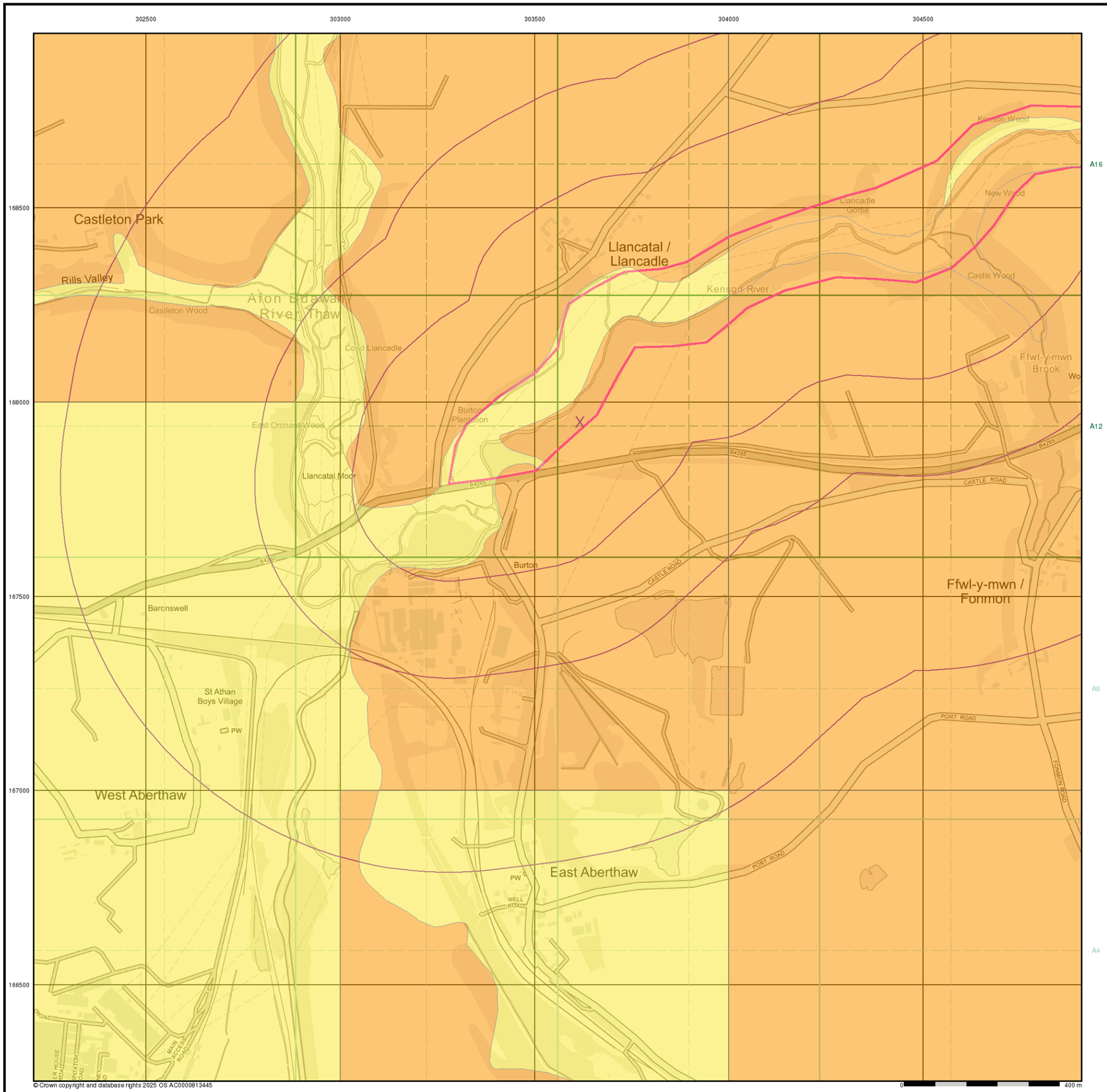

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General

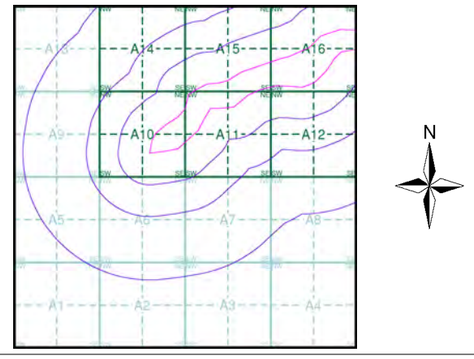
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



Order Details

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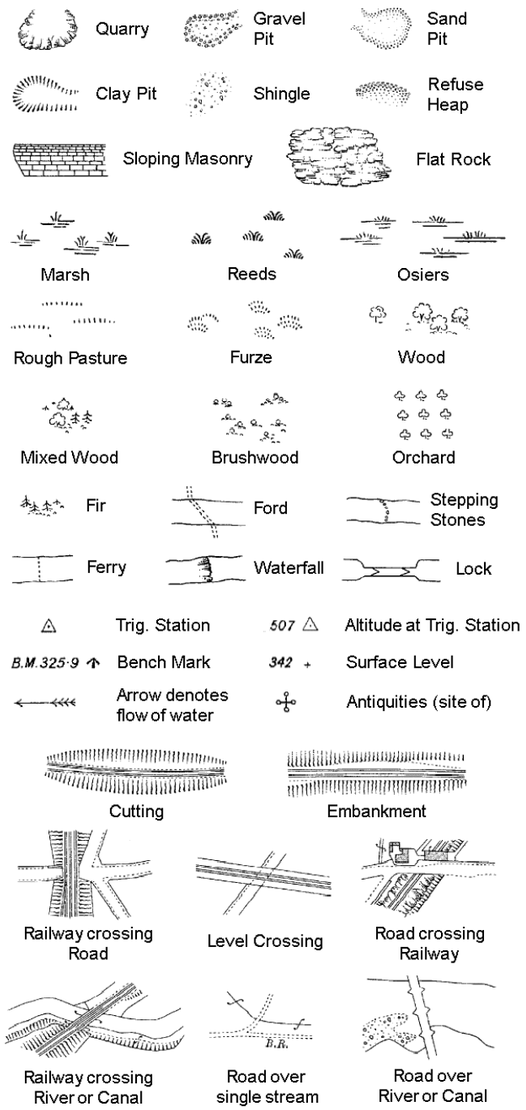
Historical Mapping Legends

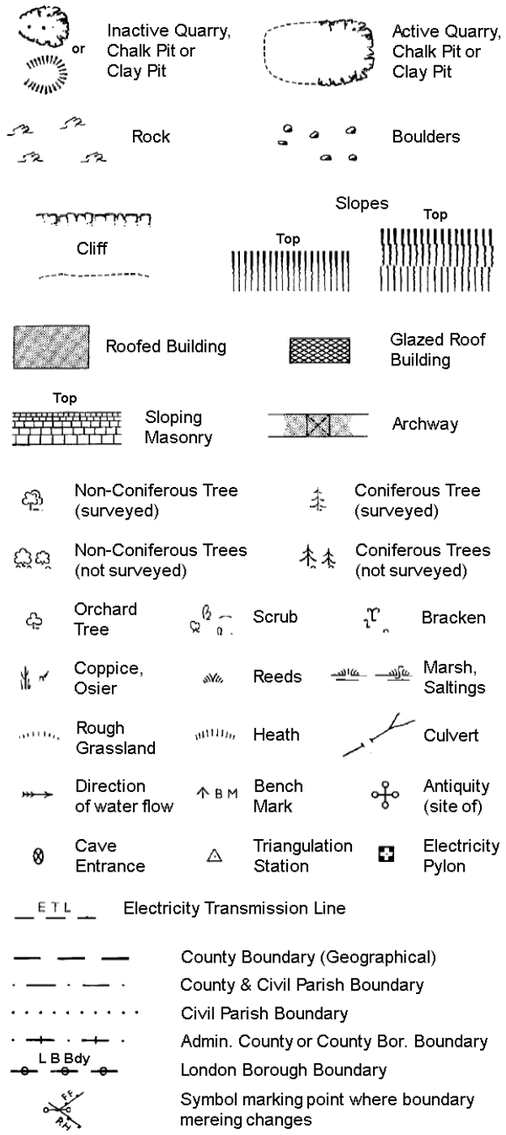
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

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

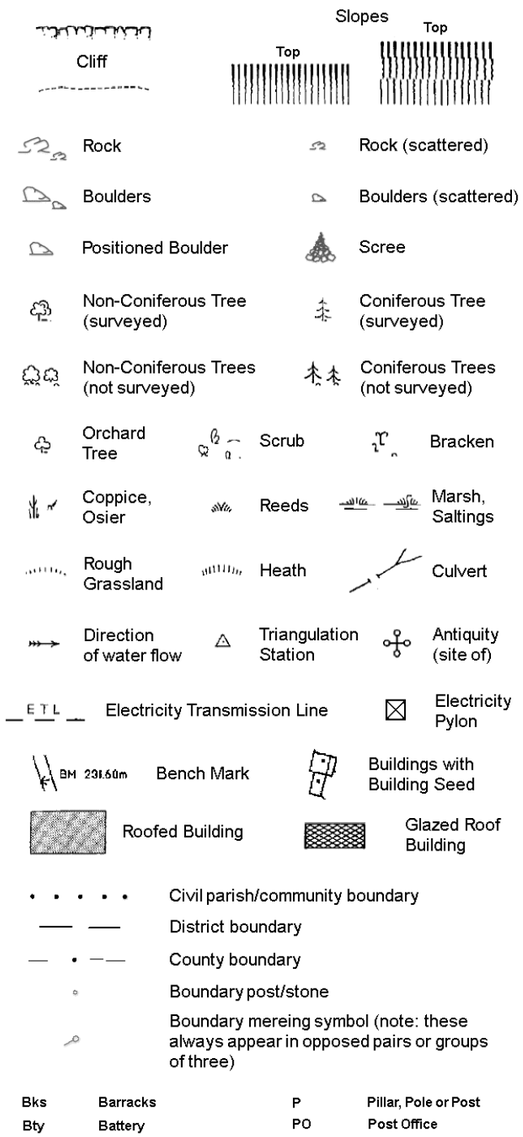
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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

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

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



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

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

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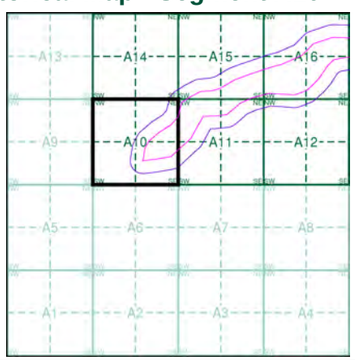
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1879	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1919	4
Glamorganshire	1:2,500	1943	5
Ordnance Survey Plan	1:2,500	1971 - 1972	6
Additional SIMs	1:2,500	1977 - 1989	7
Ordnance Survey Plan	1:2,500	1988	8
Large-Scale National Grid Data	1:2,500	1993	9
Large-Scale National Grid Data	1:2,500	1993	10
Historical Aerial Photography	1:2,500	2000	11

Historical Map - Segment A10



Order Details

Order Number: 367701071_1_1
Customer Ref: 2025s0023
National Grid Reference: 303620, 167950
Slice: A
Site Area (Ha): 40.66
Search Buffer (m): 100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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Tel: 0844 844 9952
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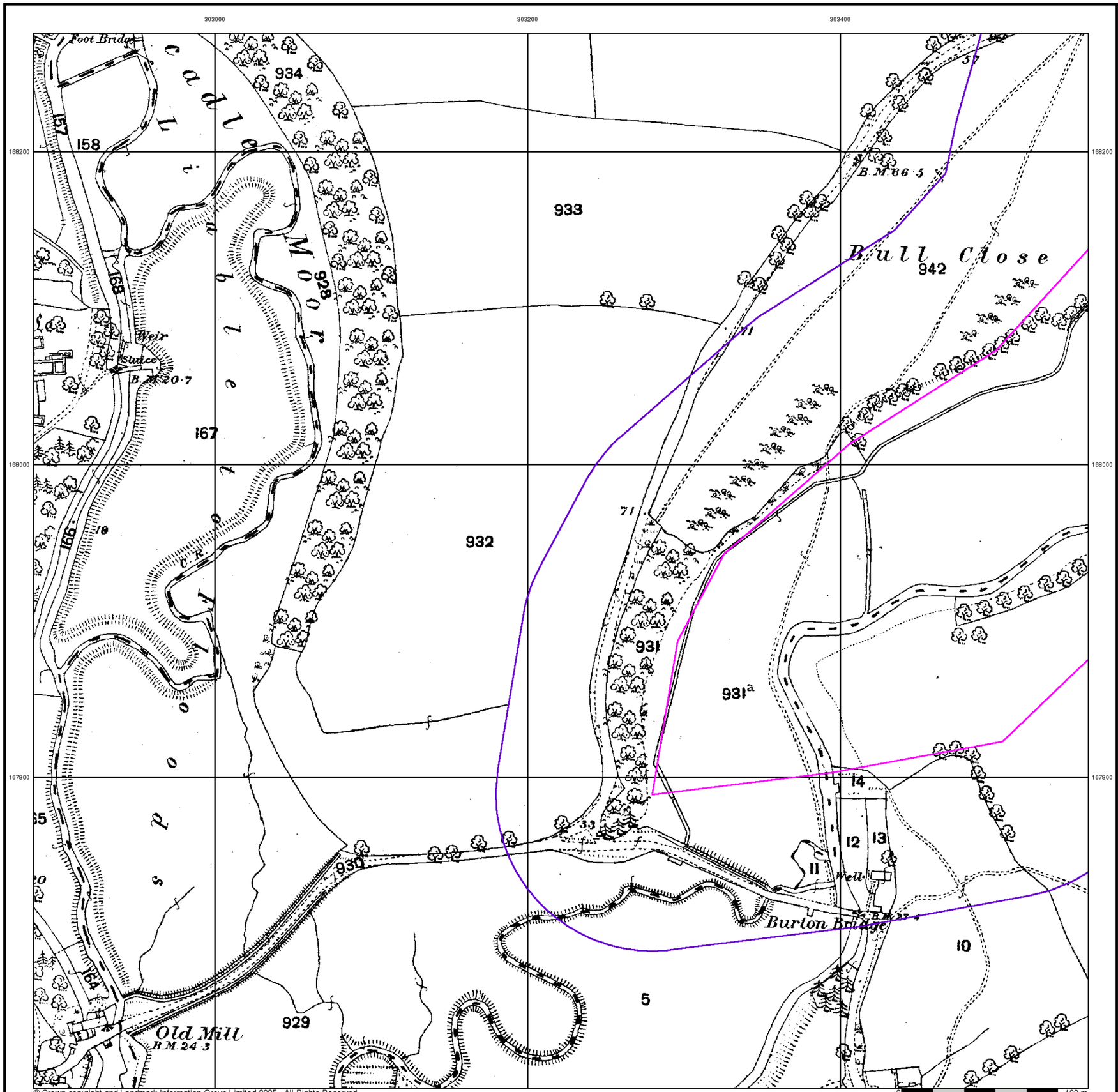

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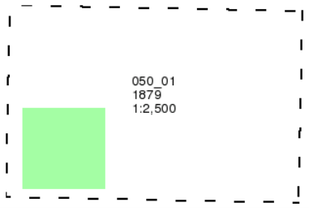
Glamorganshire

Published 1879

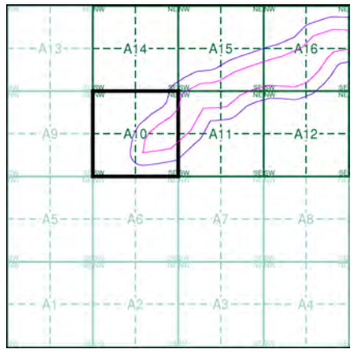
Source map scale - 1:2,500

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 A10



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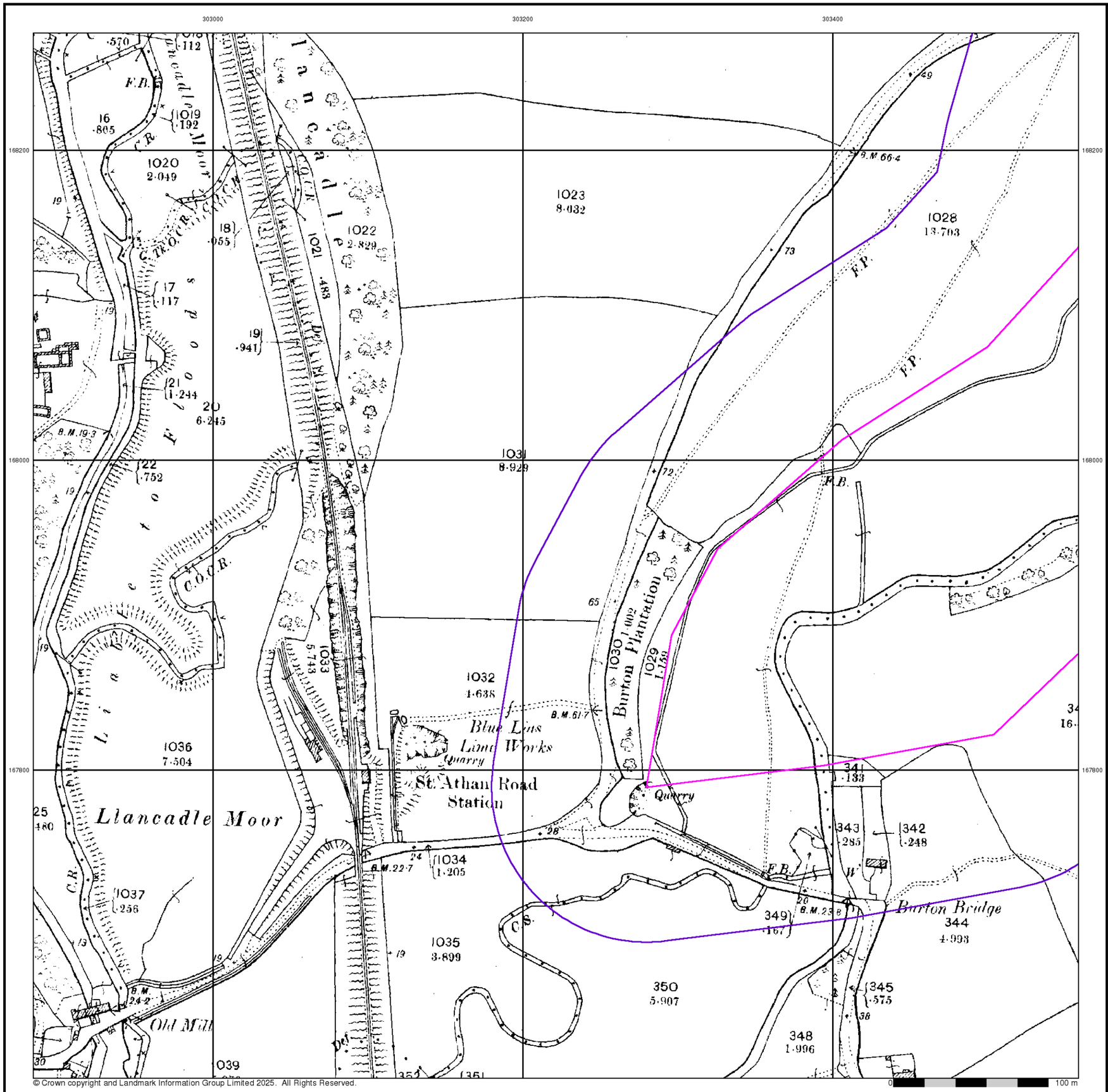

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LANDMARK INFORMATION GROUP

Glamorganshire

Published 1900

Source map scale - 1:2,500

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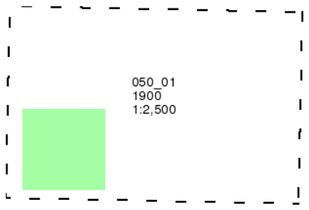
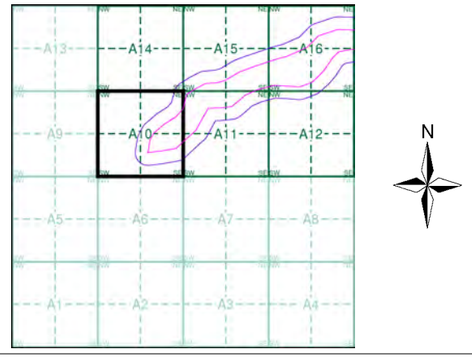


Historical Map - Segment A10



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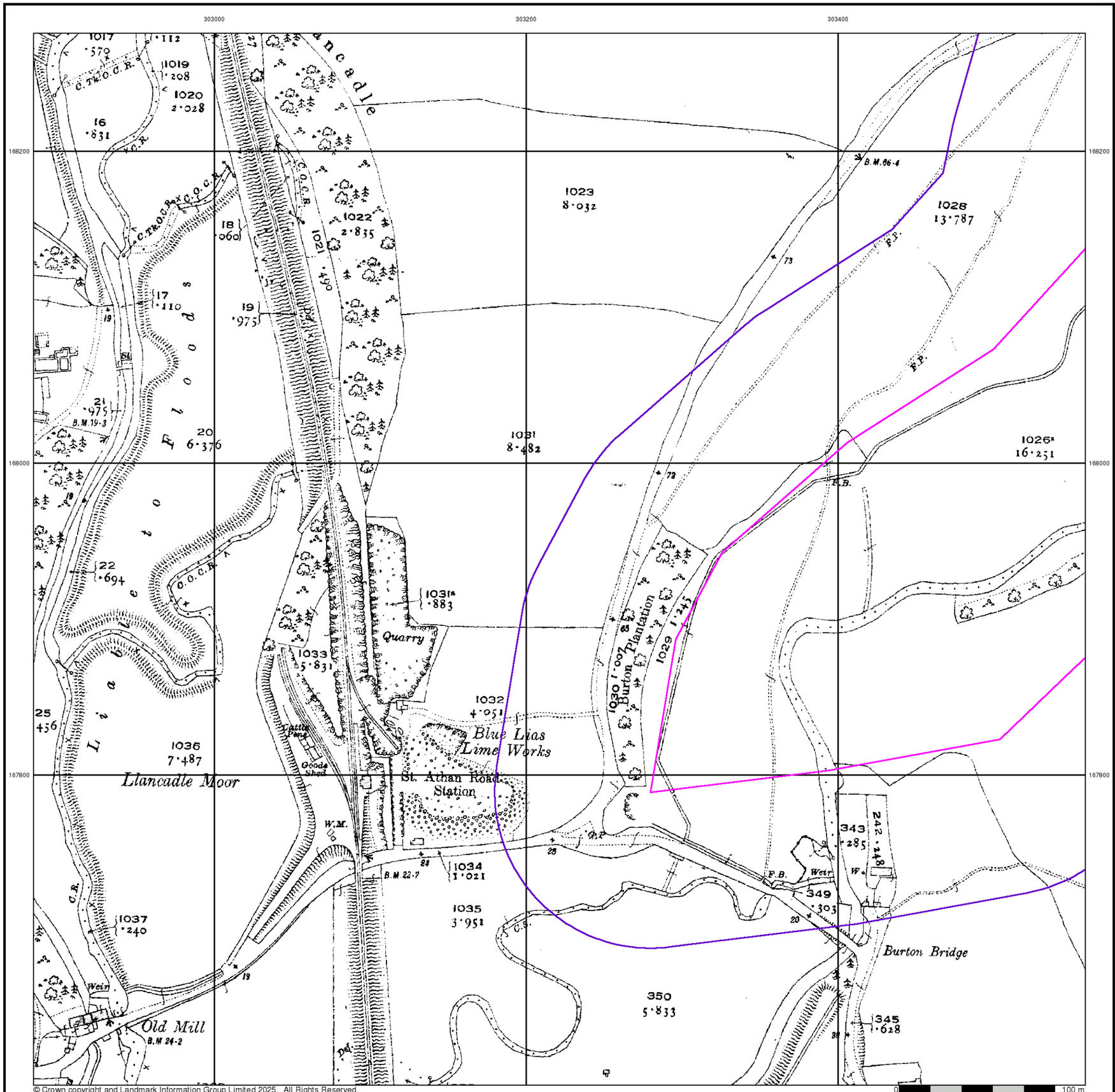
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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



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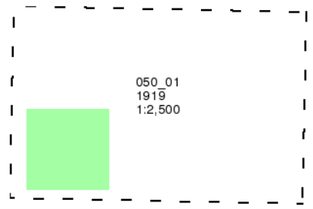
Glamorganshire

Published 1919

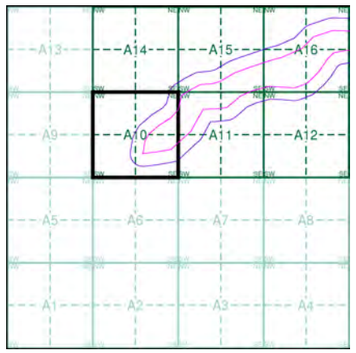
Source map scale - 1:2,500

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 A10



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

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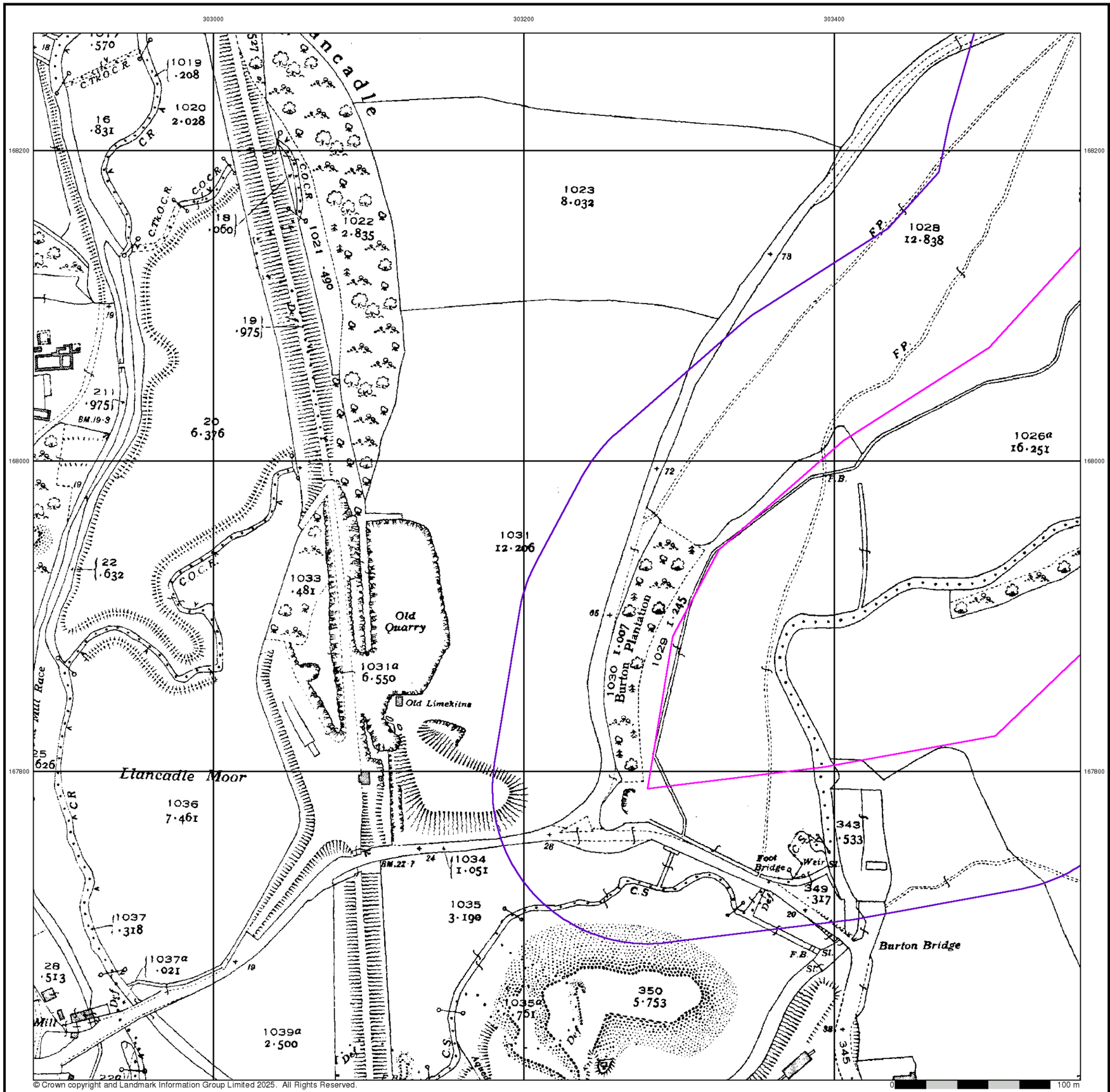

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Glamorganshire

Published 1943

Source map scale - 1:2,500

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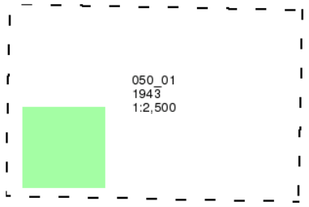
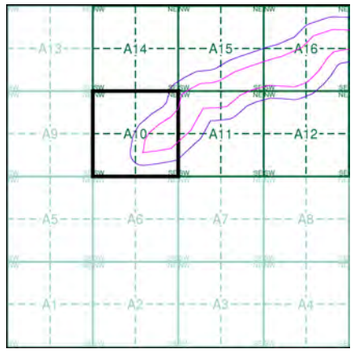
Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

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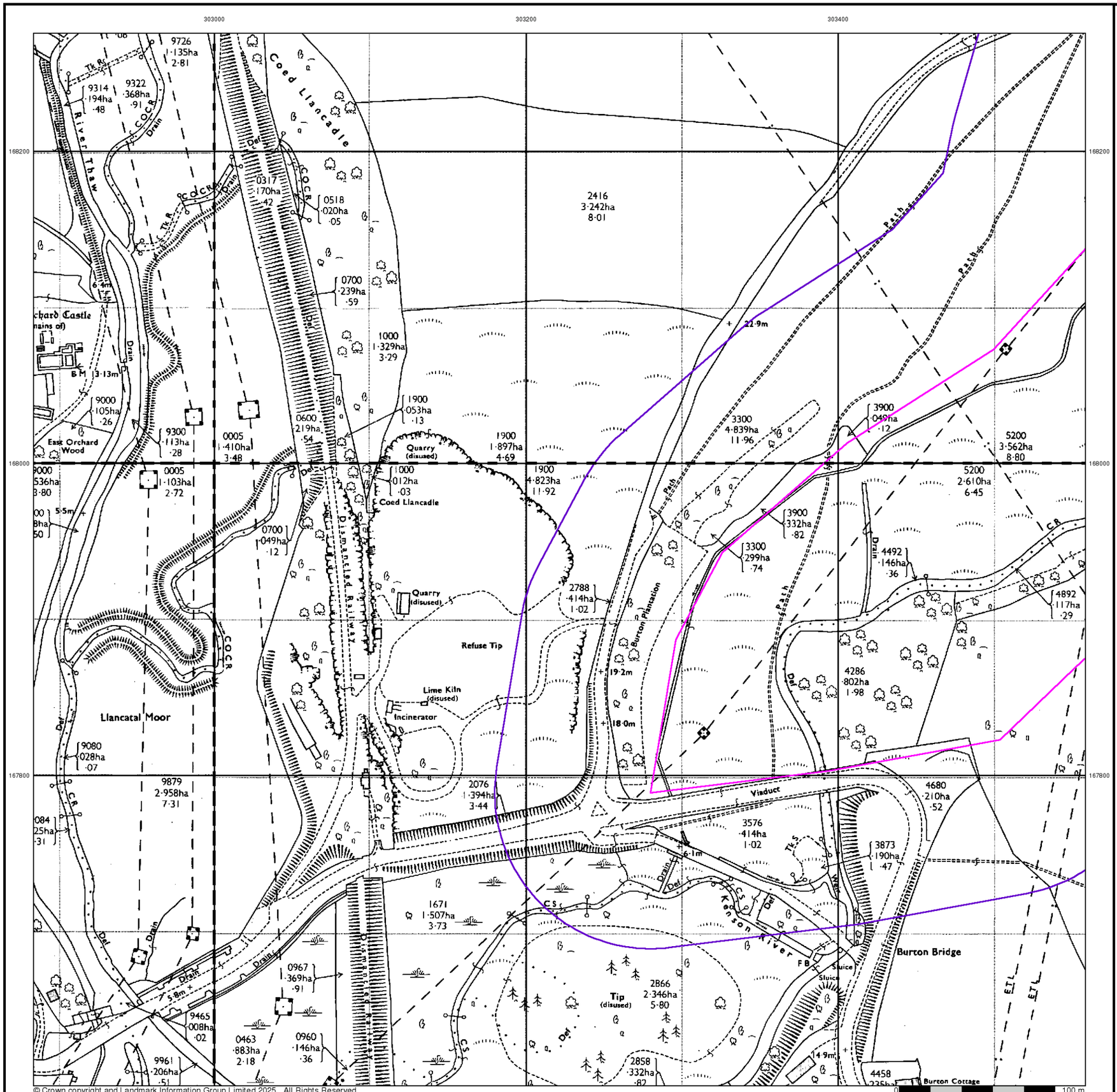

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Ordnance Survey Plan

Published 1971 - 1972

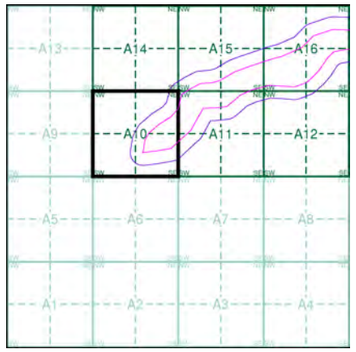
Source map scale - 1:2,500

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)

ST0268 1972 1:2,500	ST0368 1972 1:2,500
ST0267 1971 1:2,500	ST0367 1971 1:2,500

Historical Map - Segment A10



Order Details

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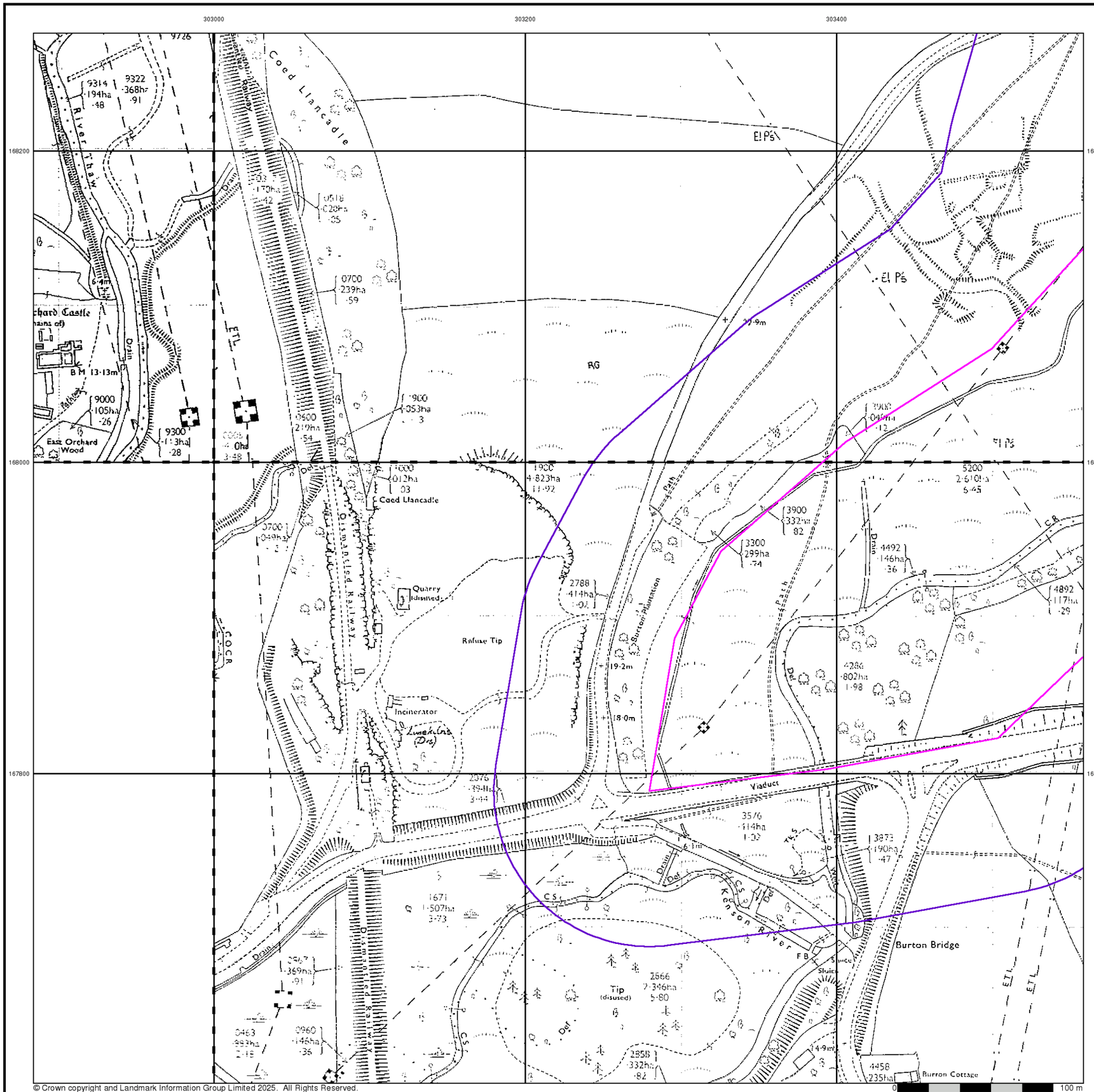
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan



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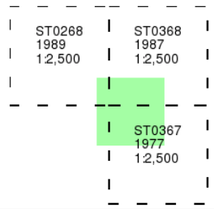
Additional SIMs

Published 1977 - 1989

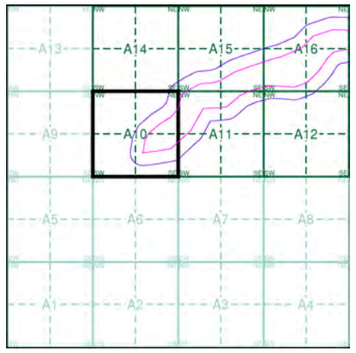
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number:	367701071_1_1
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Search Buffer (m):	100

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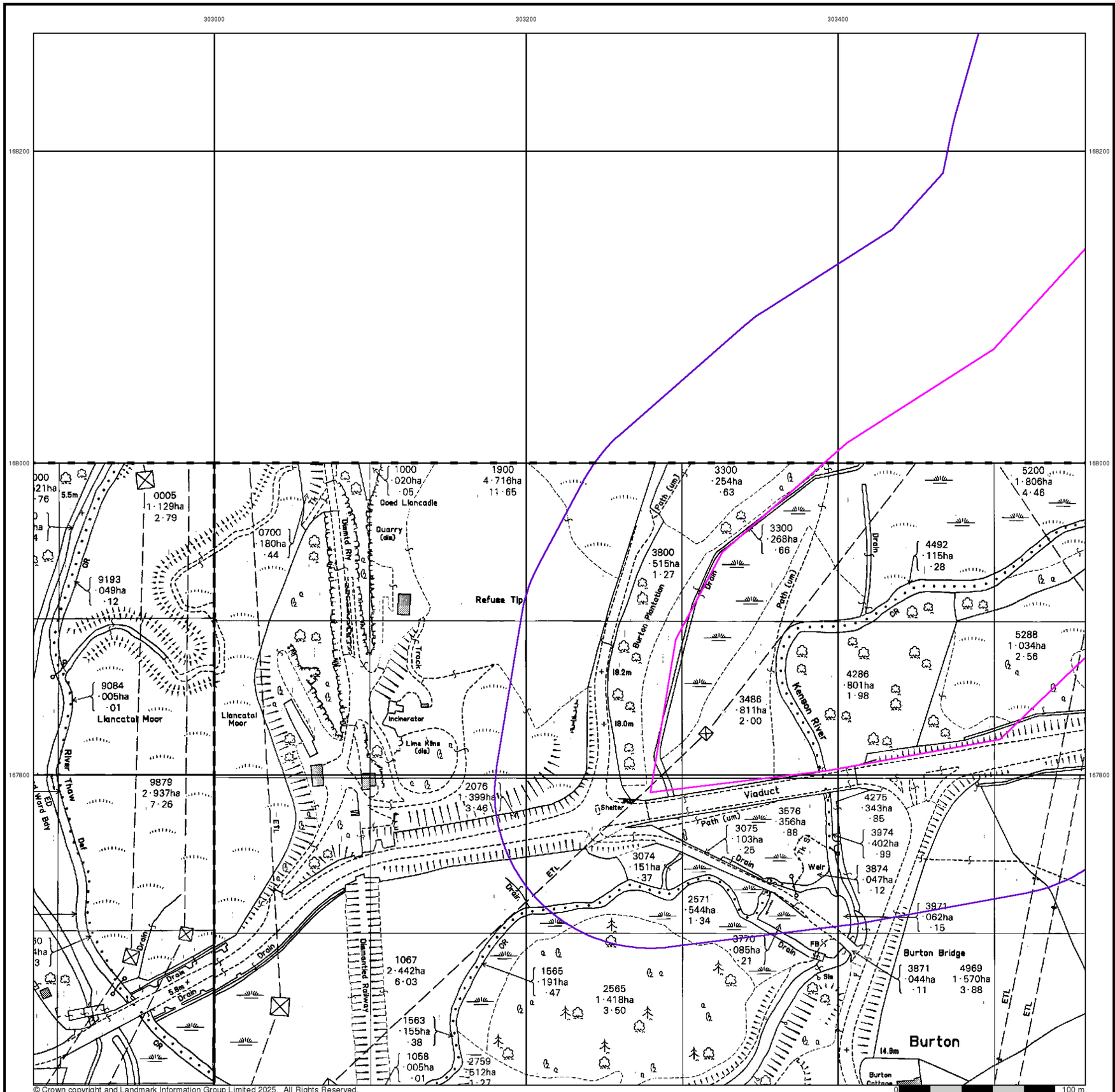

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Ordnance Survey Plan

Published 1988

Source map scale - 1:2,500

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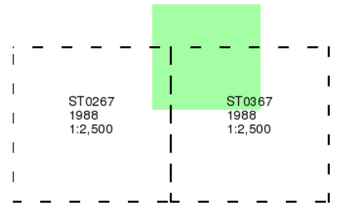
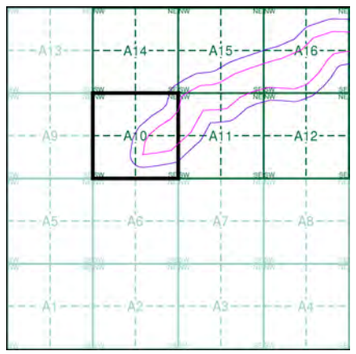
Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

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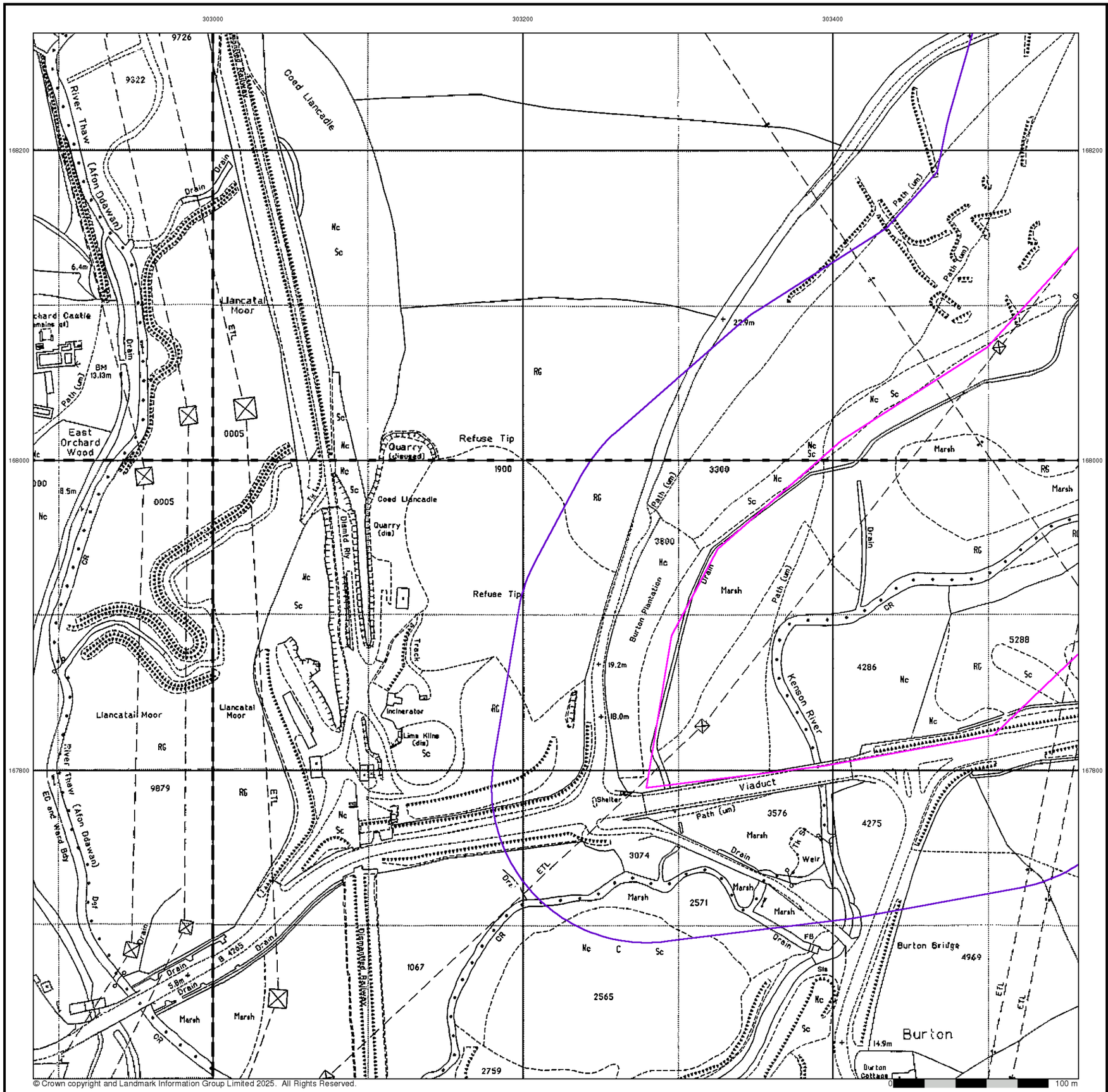
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan



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Large-Scale National Grid Data

Published 1993

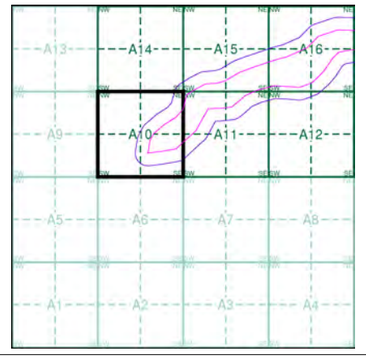
Source map scale - 1:2,500

'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)

ST0268 1993 1:2,500	ST0368 1993 1:2,500
ST0267 1993 1:2,500	ST0367 1993 1:2,500

Historical Map - Segment A10



Order Details

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Customer Ref:	2025s0023
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Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
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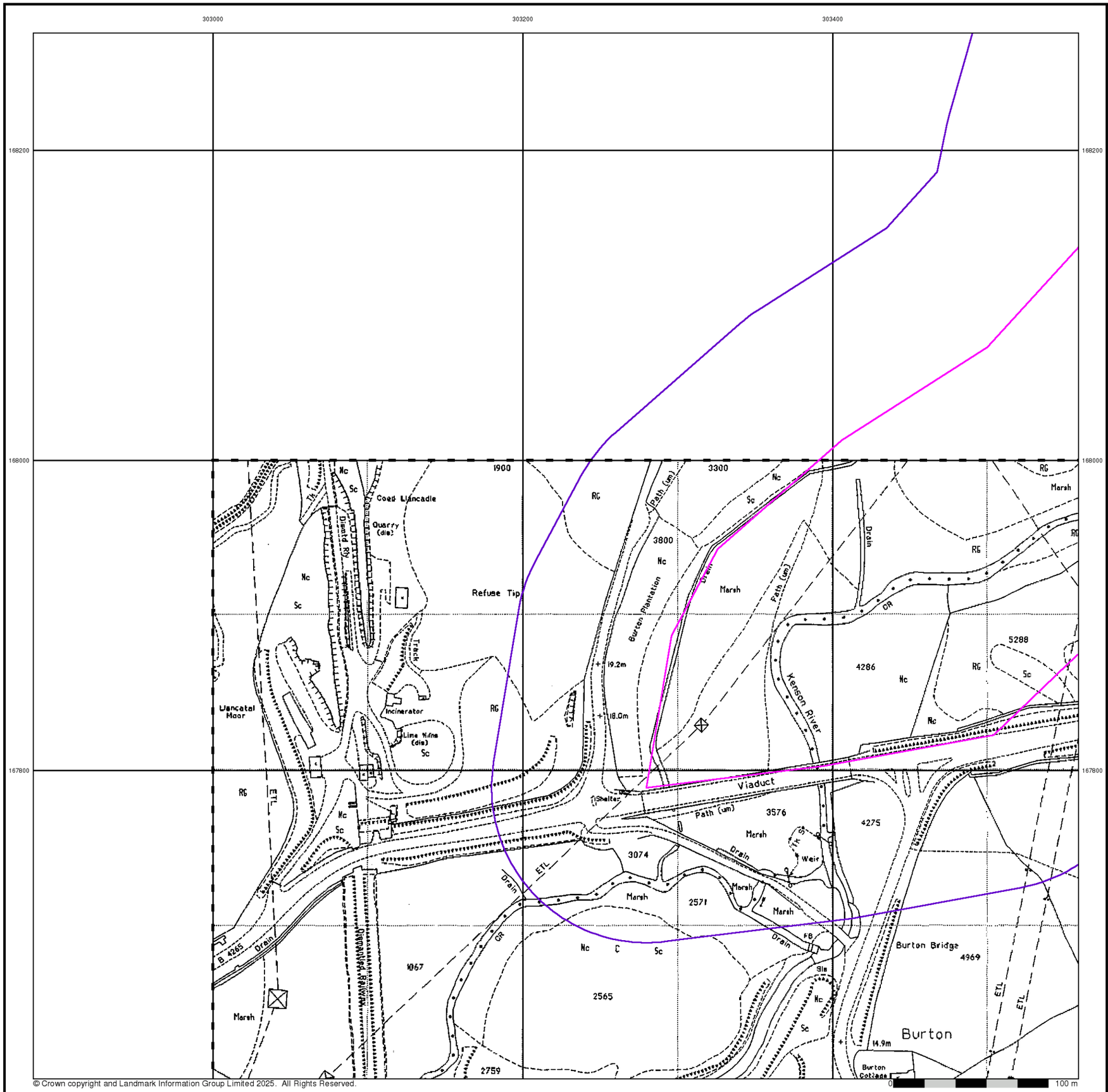

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Large-Scale National Grid Data

Published 1993

Source map scale - 1:2,500

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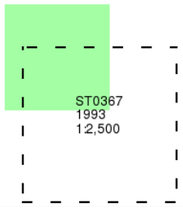
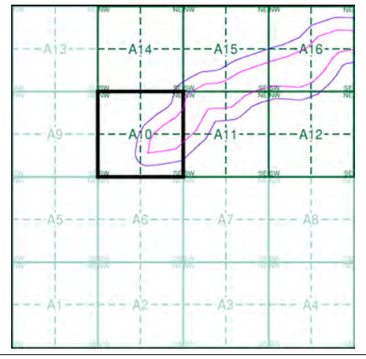


Historical Map - Segment A10



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

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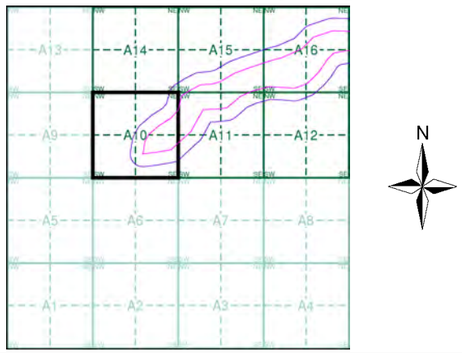
Historical Aerial Photography

Published 2000

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 A10



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
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Slice:	A
Site Area (Ha):	40.66
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Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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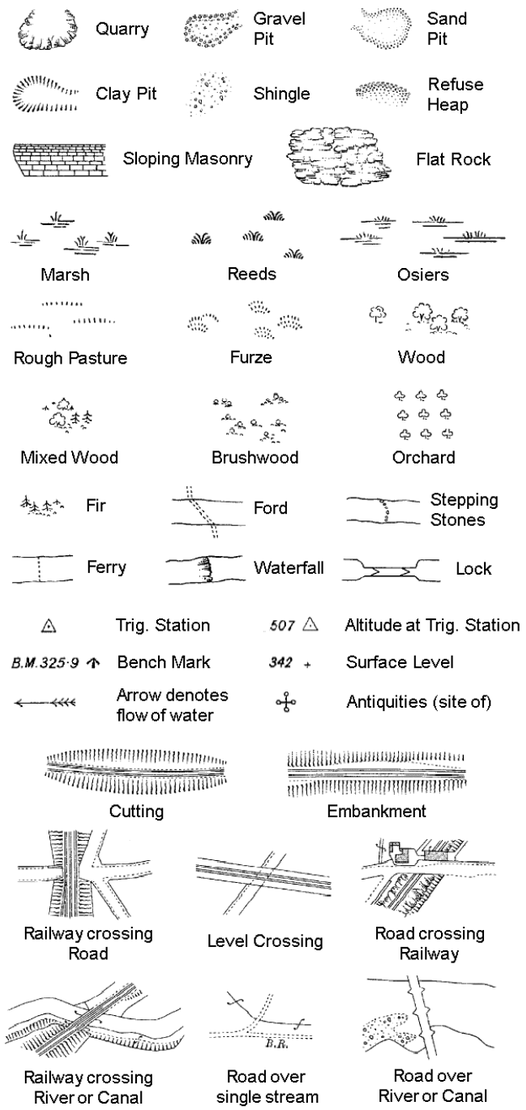
Historical Mapping Legends

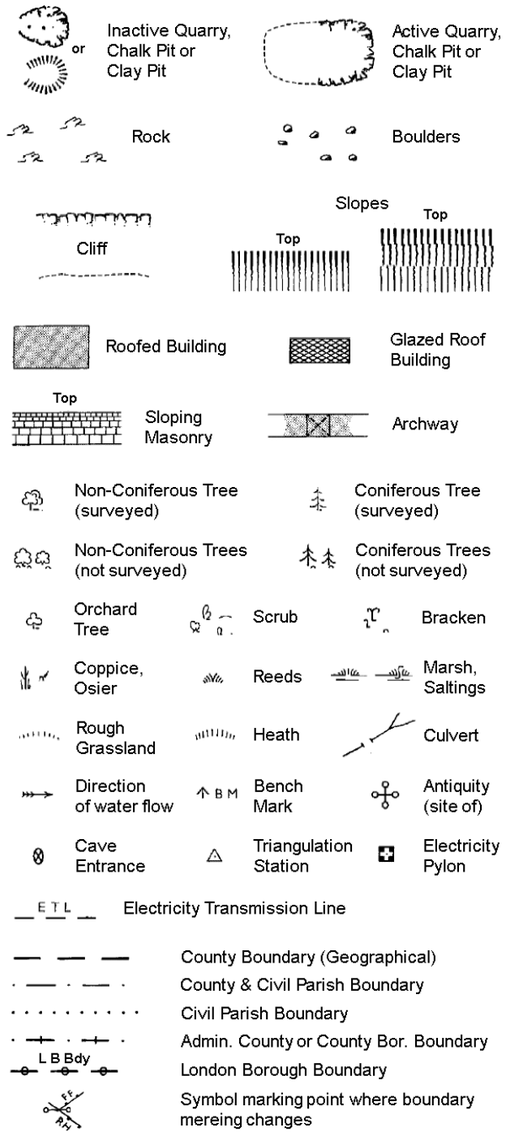
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

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

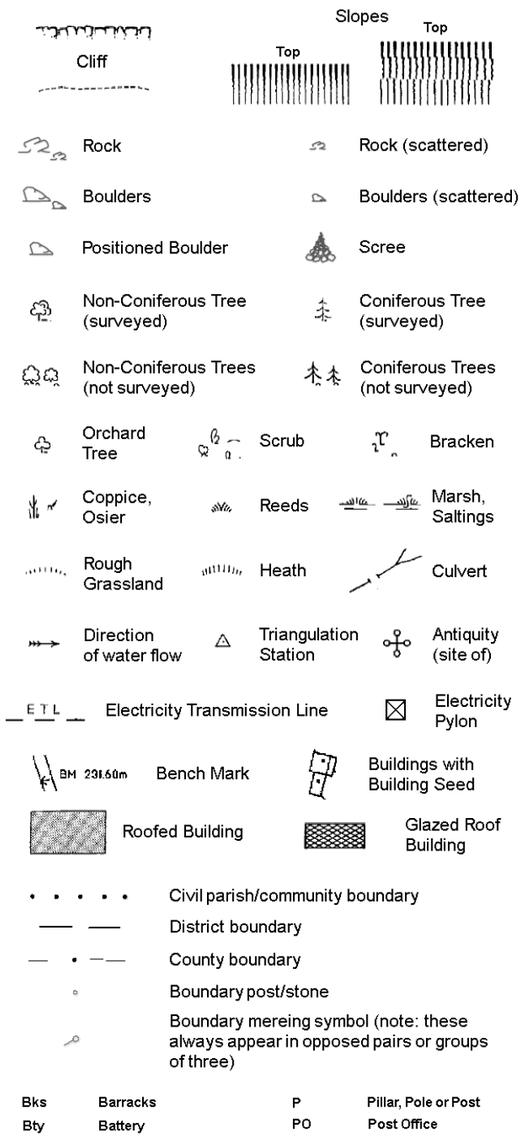
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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

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

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



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

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

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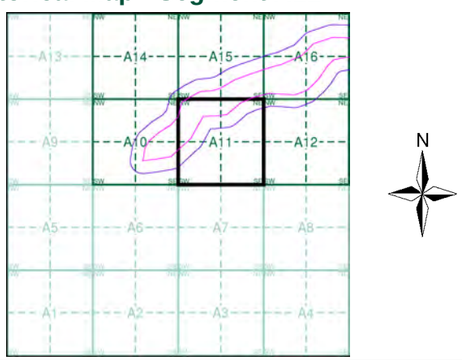
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1879	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1919	4
Glamorganshire	1:2,500	1943	5
Ordnance Survey Plan	1:2,500	1971 - 1973	6
Additional SIMs	1:2,500	1977 - 1987	7
Ordnance Survey Plan	1:2,500	1988	8
Large-Scale National Grid Data	1:2,500	1993	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:2,500	1994	11
Historical Aerial Photography	1:2,500	2000	12

Historical Map - Segment A11



Order Details

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Site Details

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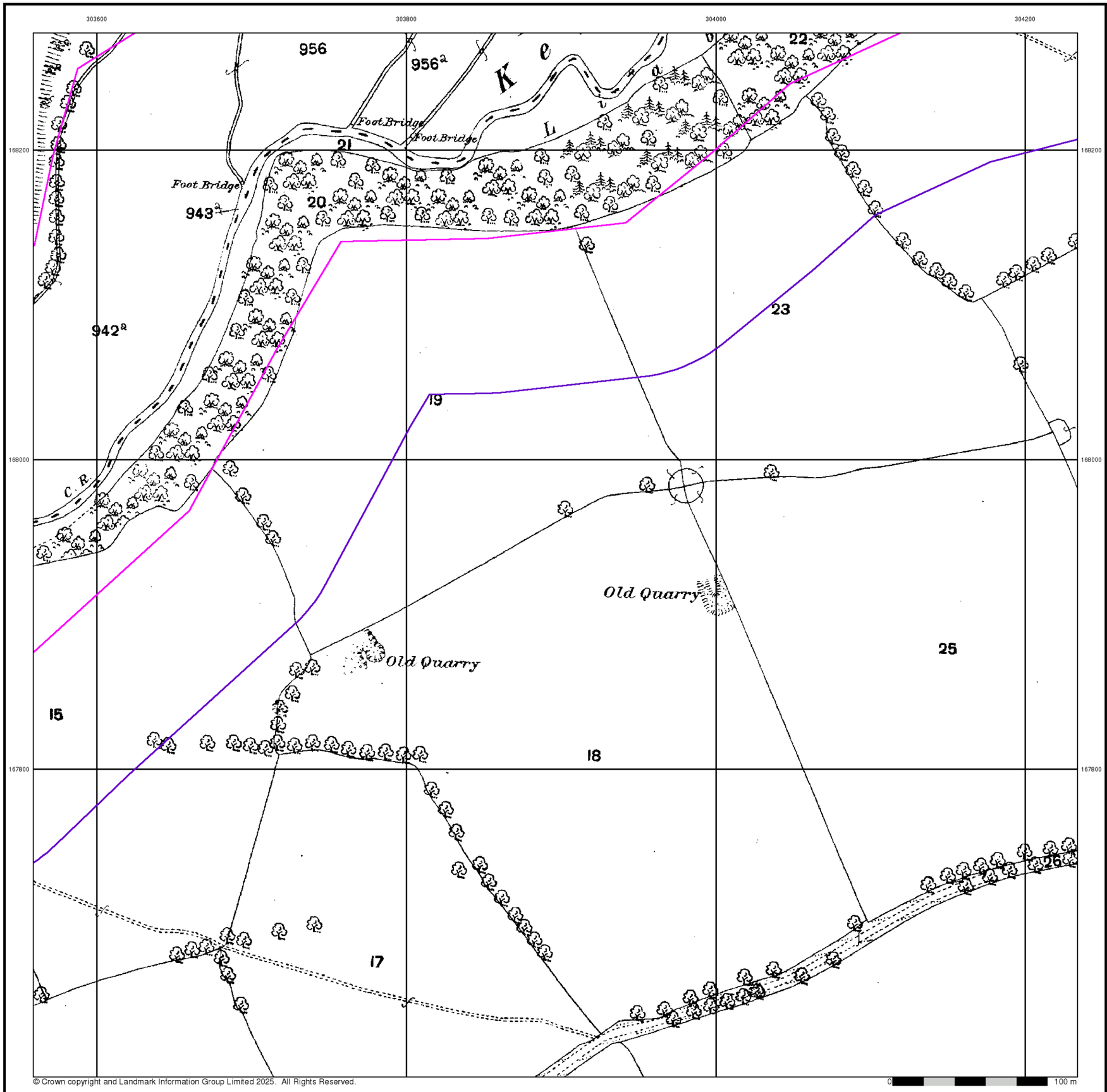

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Glamorganshire

Published 1879

Source map scale - 1:2,500

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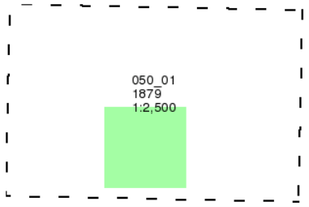
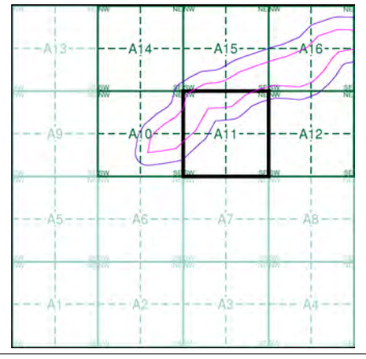
Map Name(s) and Date(s)



Historical Map - Segment A11



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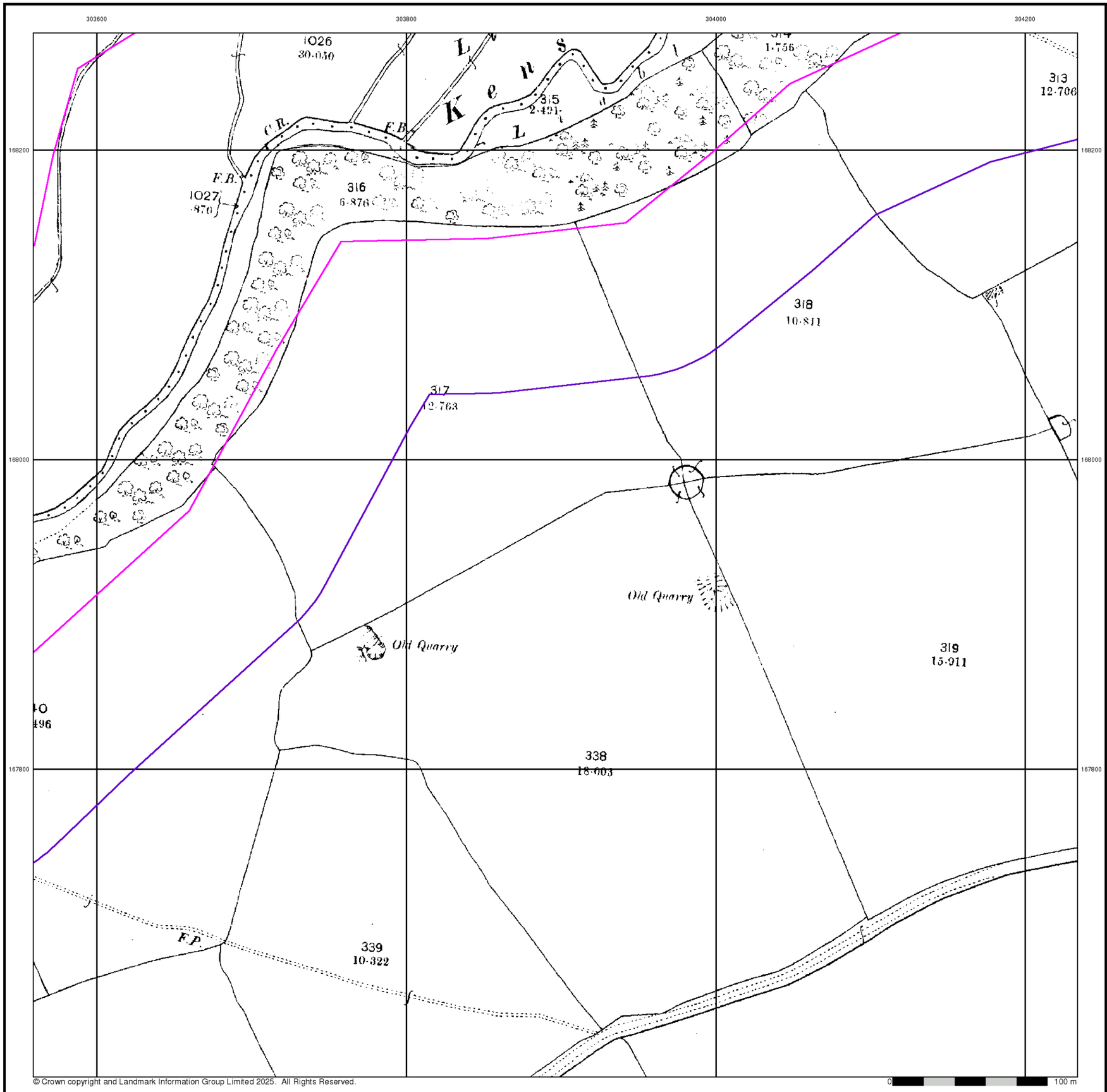

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Glamorganshire

Published 1900

Source map scale - 1:2,500

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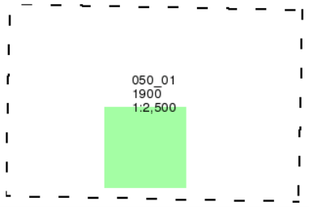
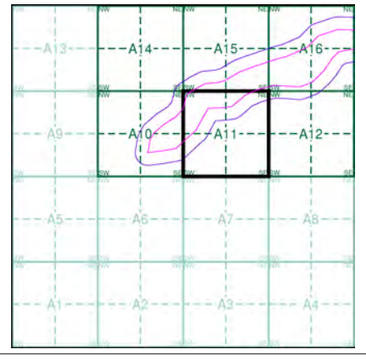
Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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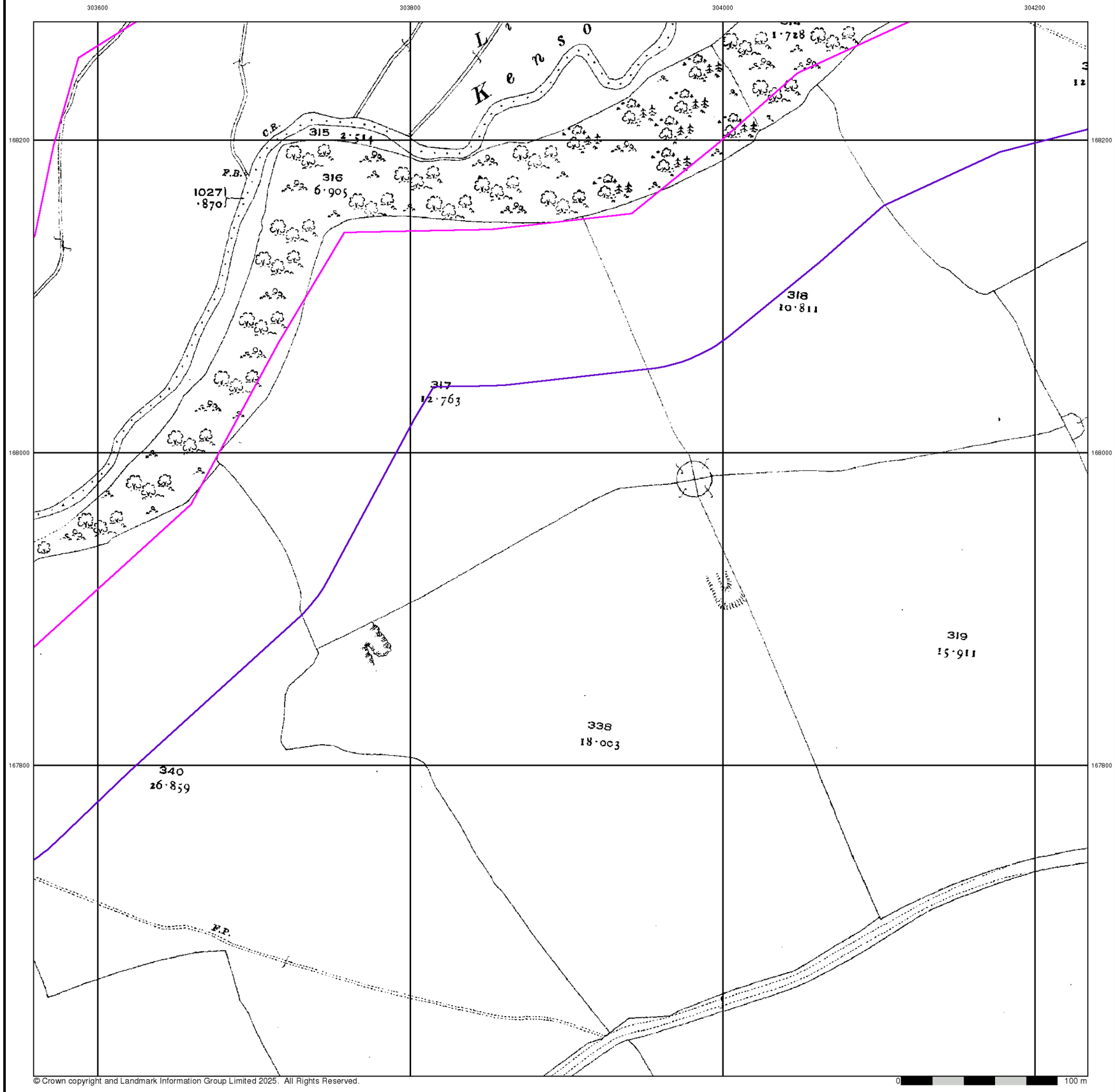
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Glamorganshire

Published 1919

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.

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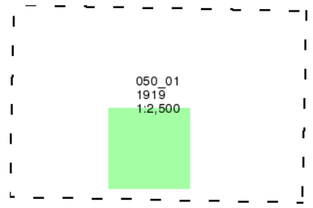
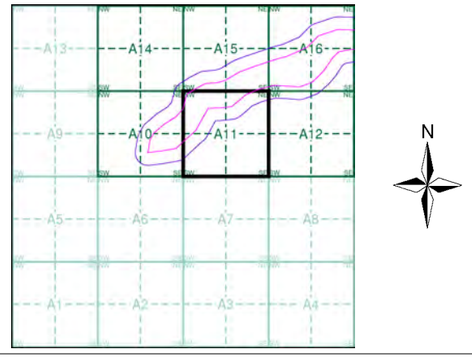


Historical Map - Segment A11



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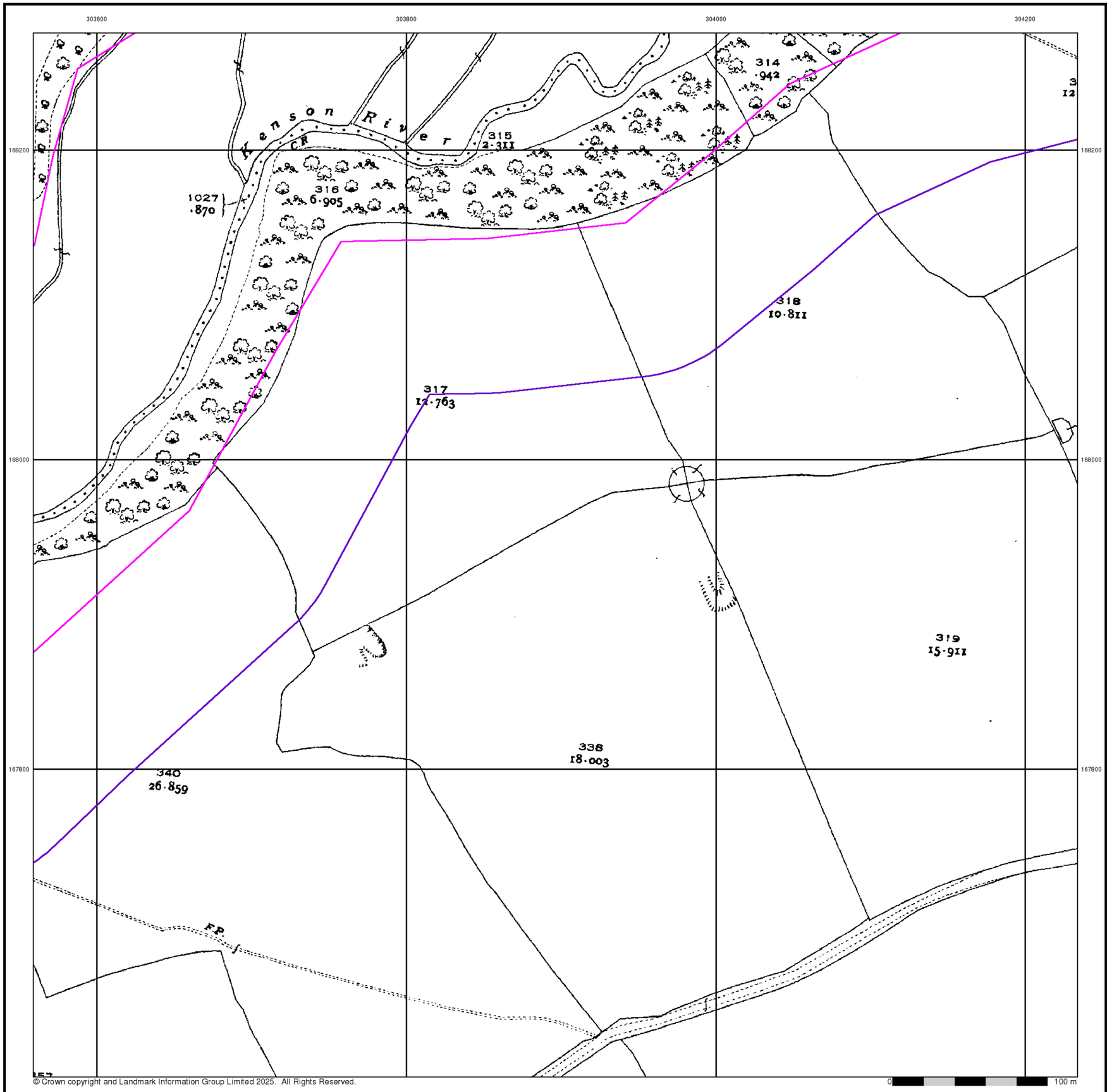

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Glamorganshire

Published 1943

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.

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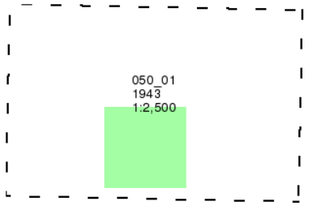
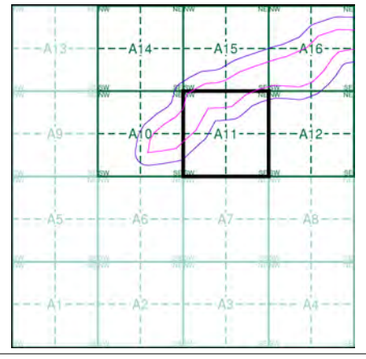


Historical Map - Segment A11



Order Details

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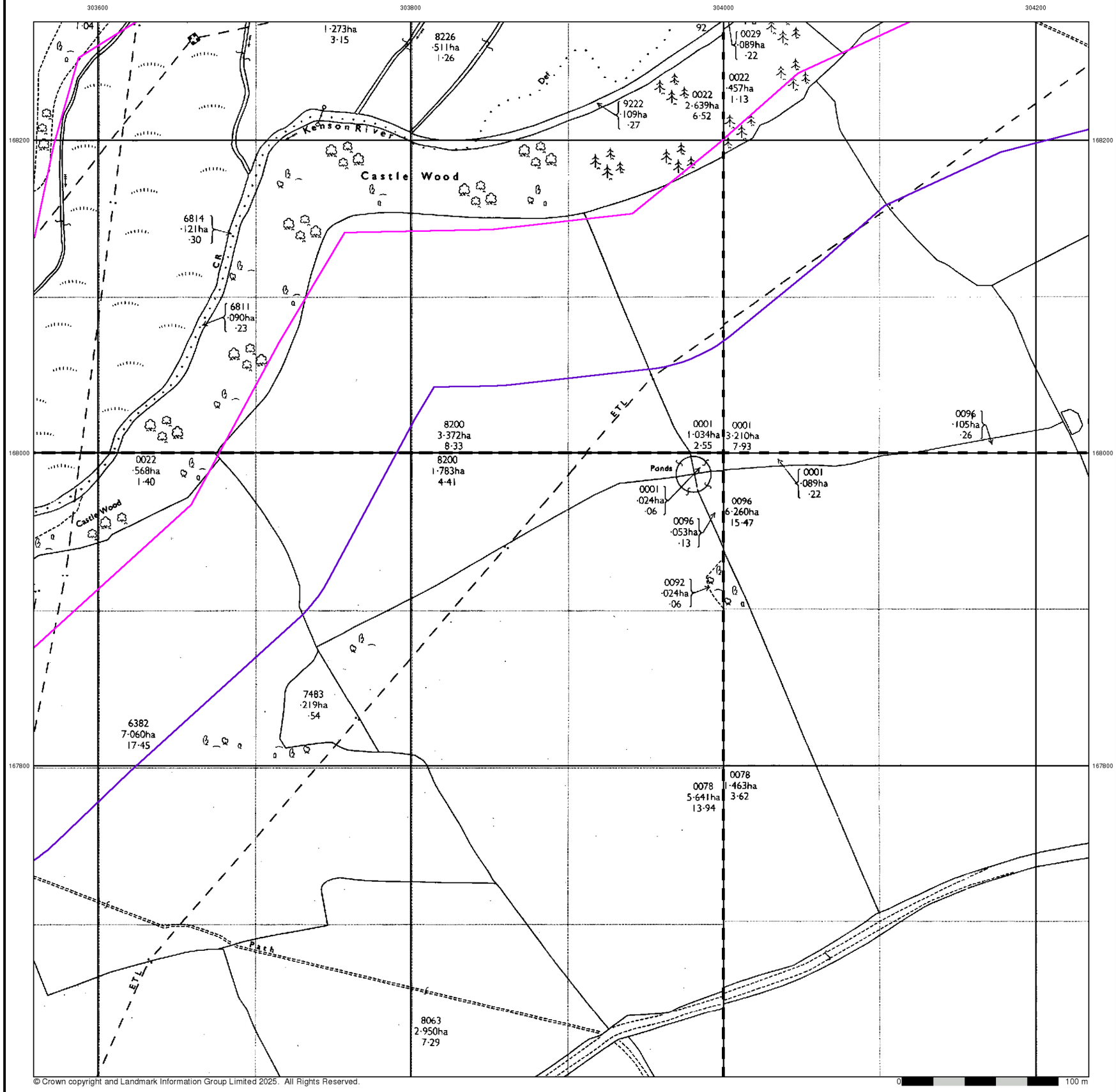

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Ordnance Survey Plan

Published 1971 - 1973

Source map scale - 1:2,500

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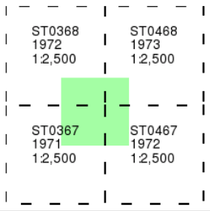
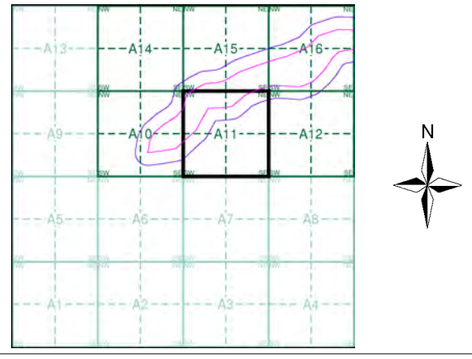


Historical Map - Segment A11



Order Details

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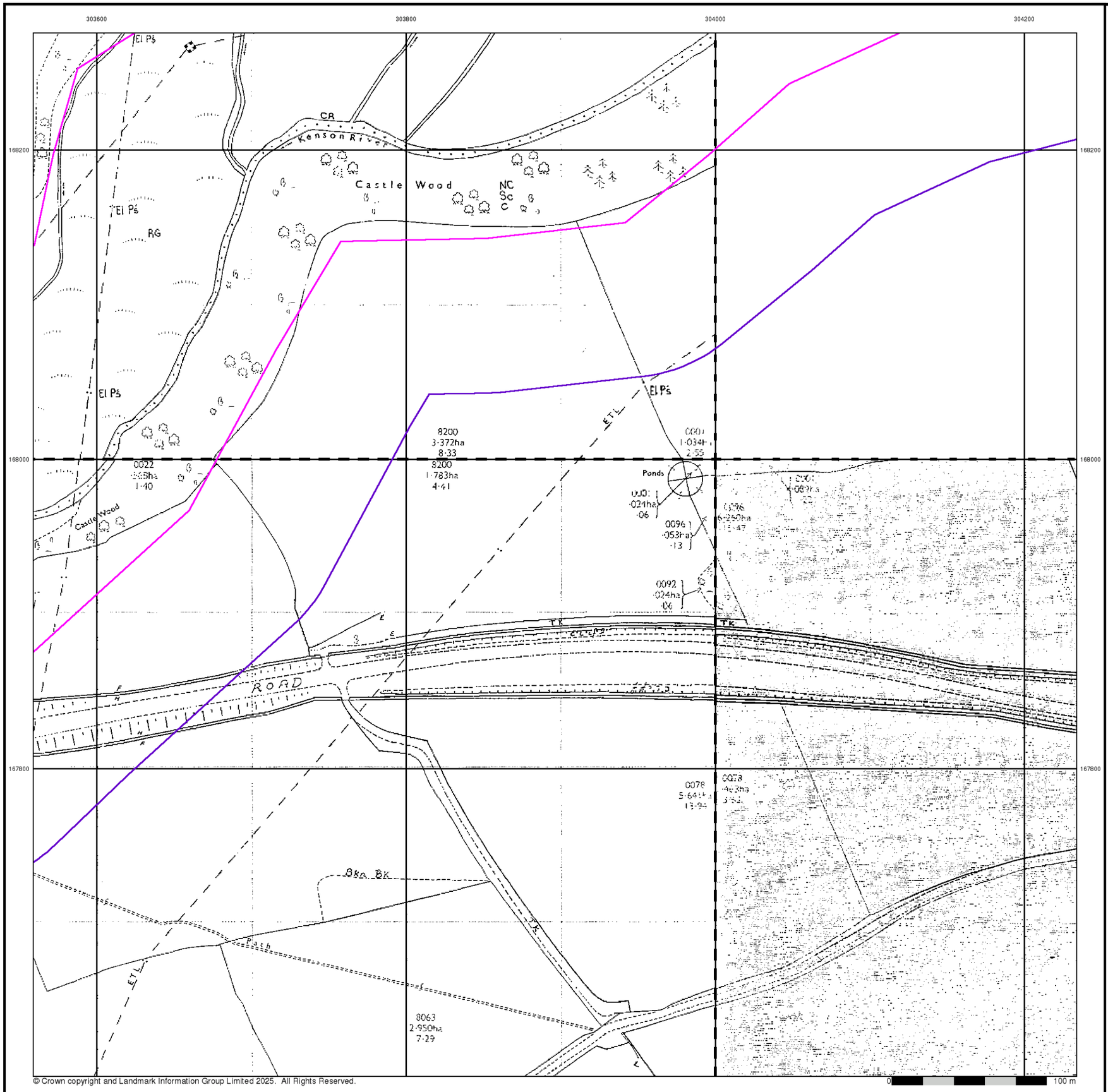

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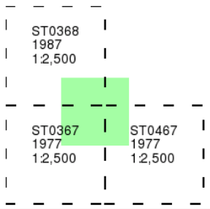
Additional SIMs

Published 1977 - 1987

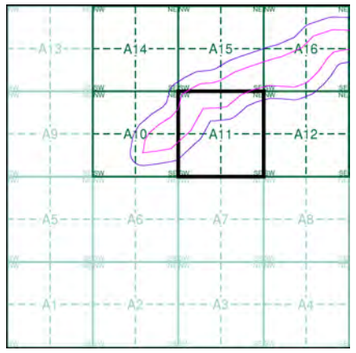
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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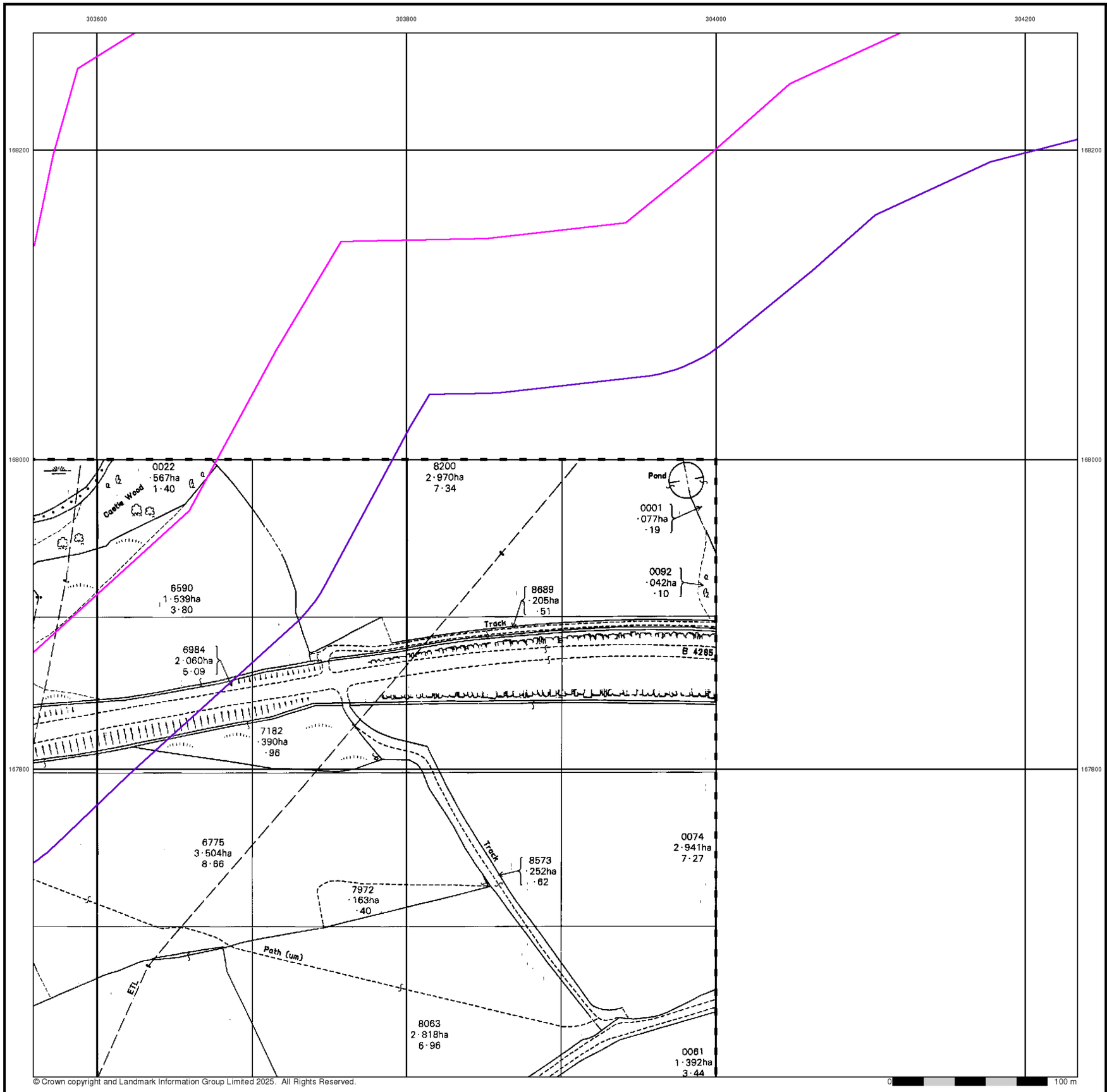

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Ordnance Survey Plan

Published 1988

Source map scale - 1:2,500

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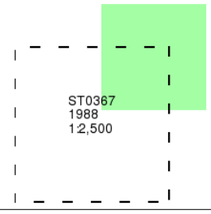
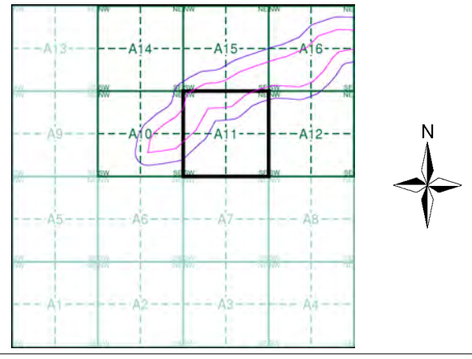
Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

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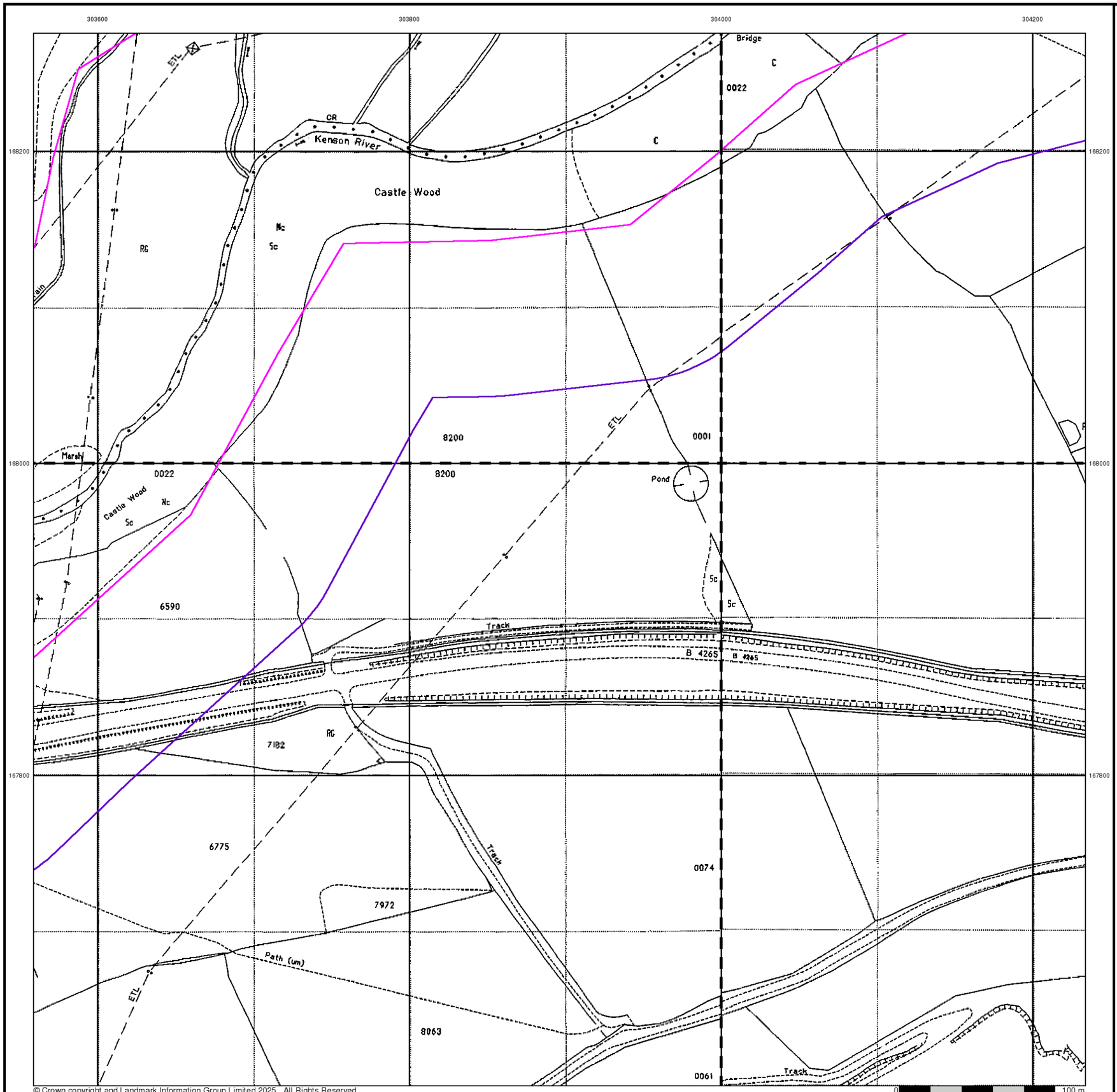

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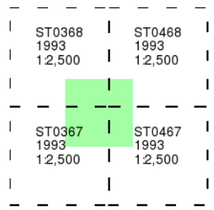
Large-Scale National Grid Data

Published 1993

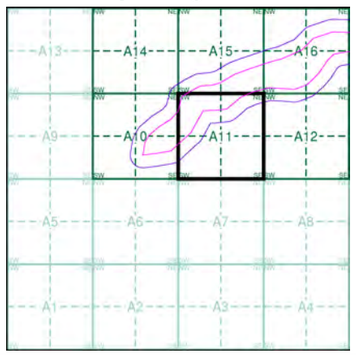
Source map scale - 1:2,500

'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 A11



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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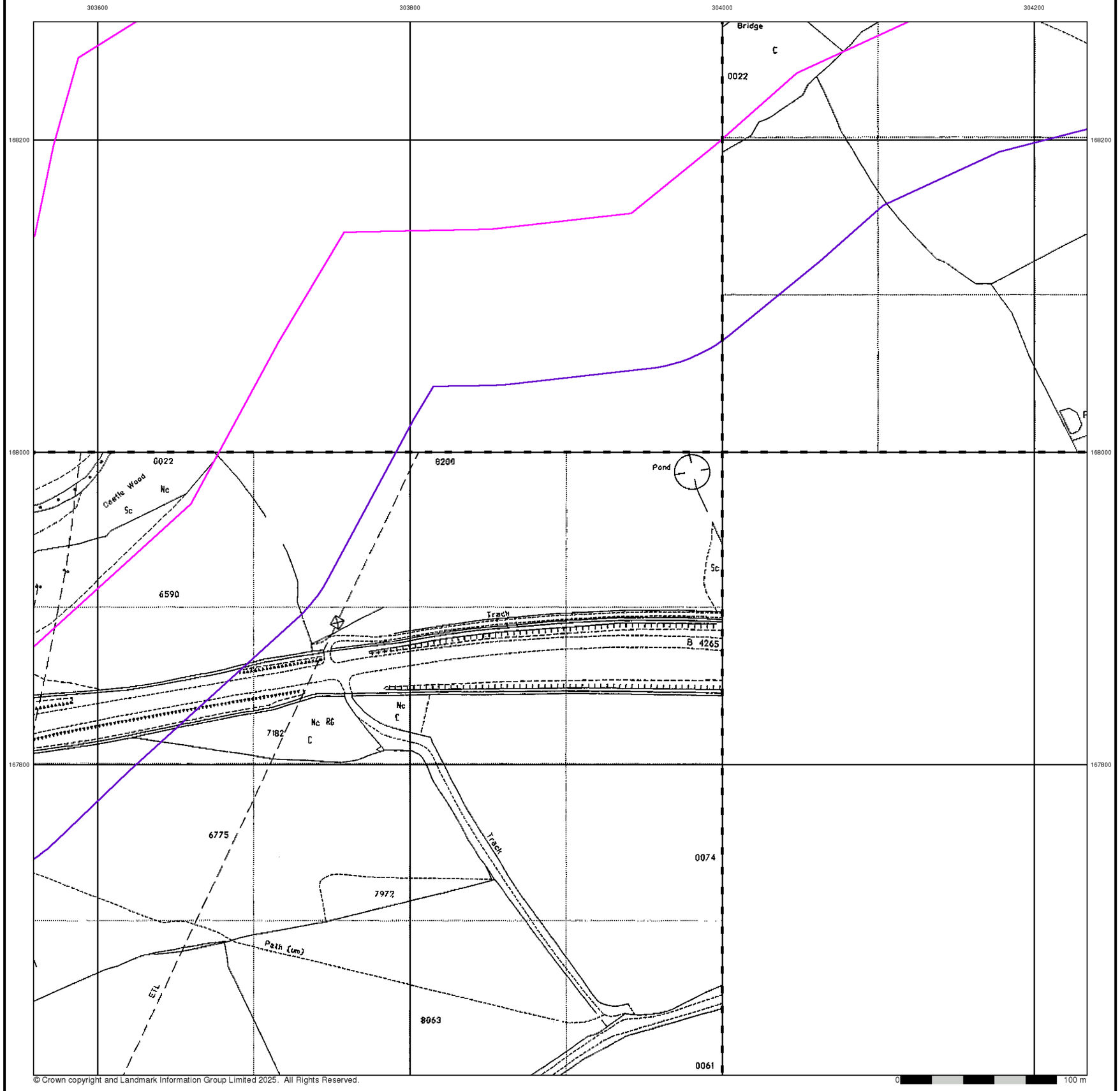

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Large-Scale National Grid Data

Published 1993

Source map scale - 1:2,500

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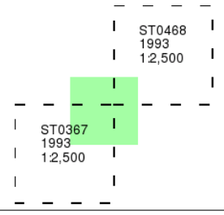
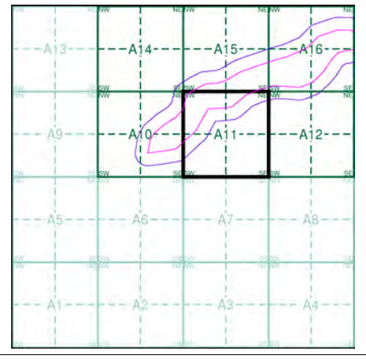


Historical Map - Segment A11



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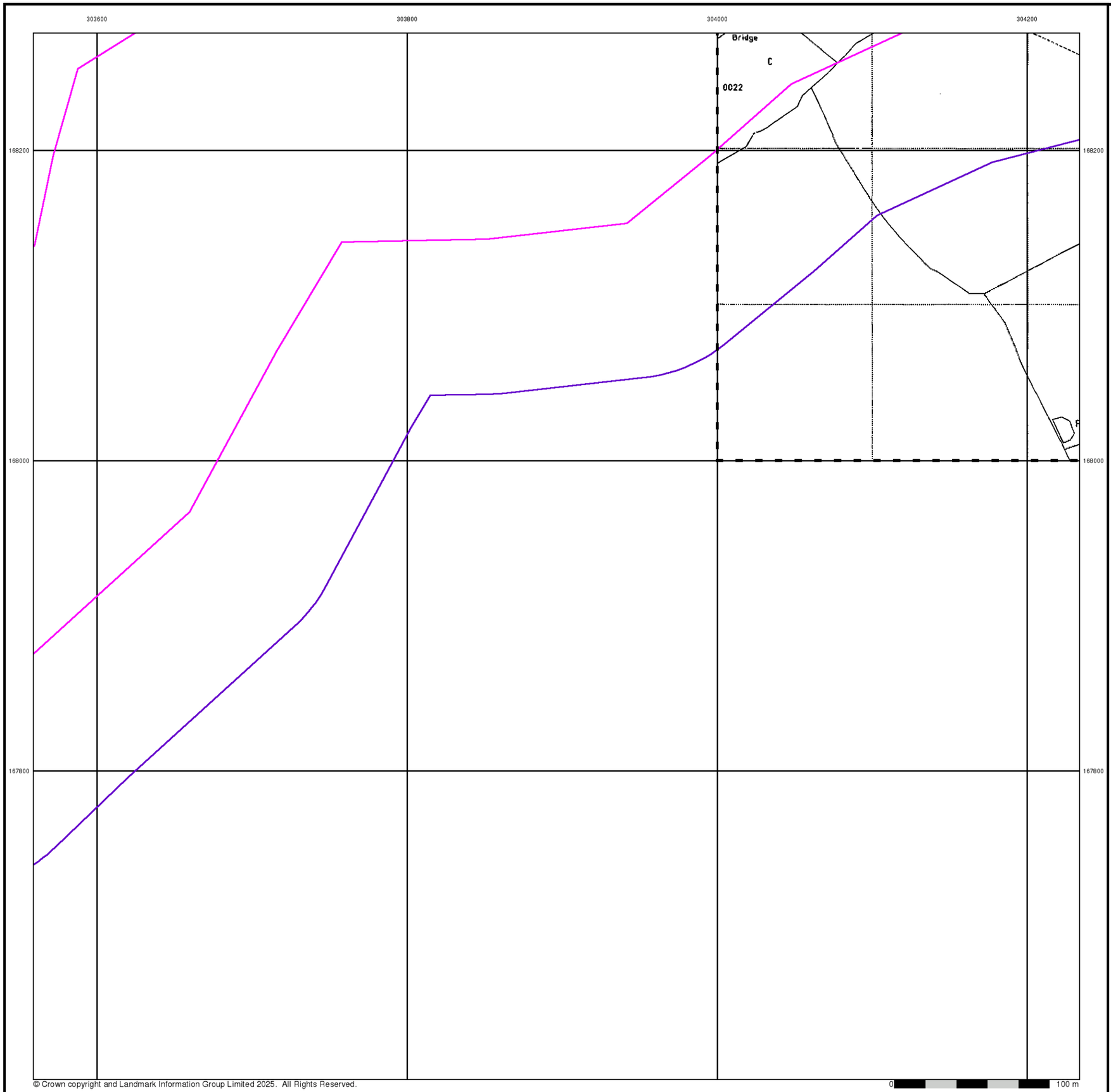

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Large-Scale National Grid Data

Published 1994

Source map scale - 1:2,500

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

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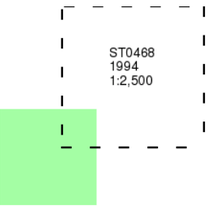
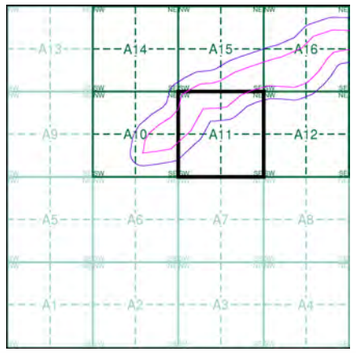


Historical Map - Segment A11



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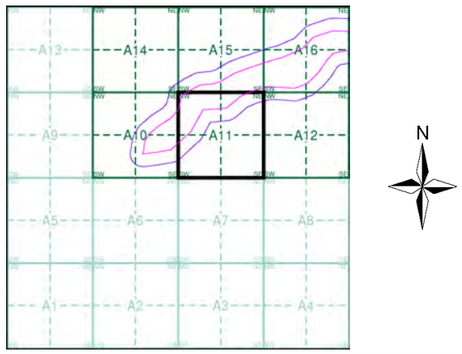
Historical Aerial Photography

Published 2000

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 A11



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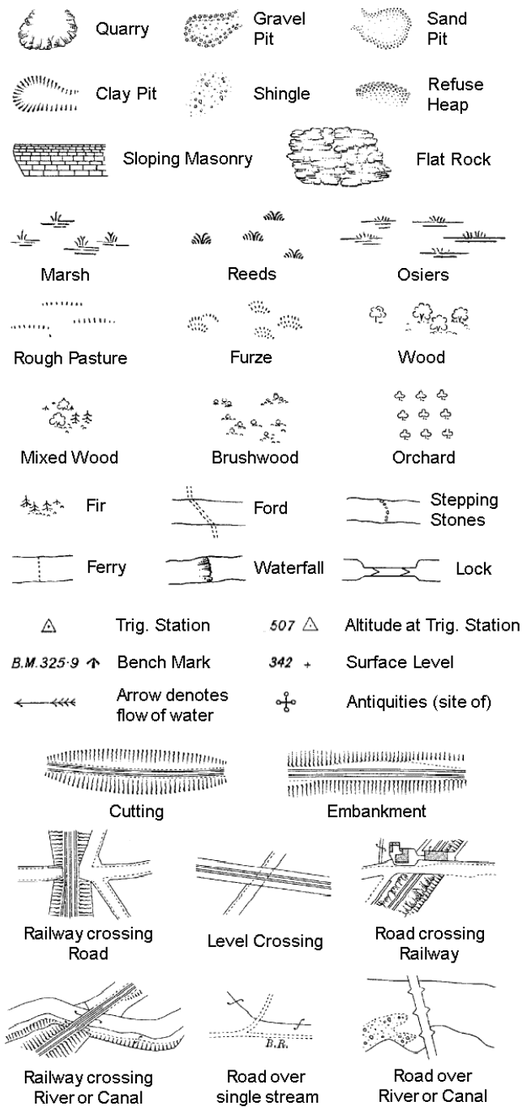
Historical Mapping Legends

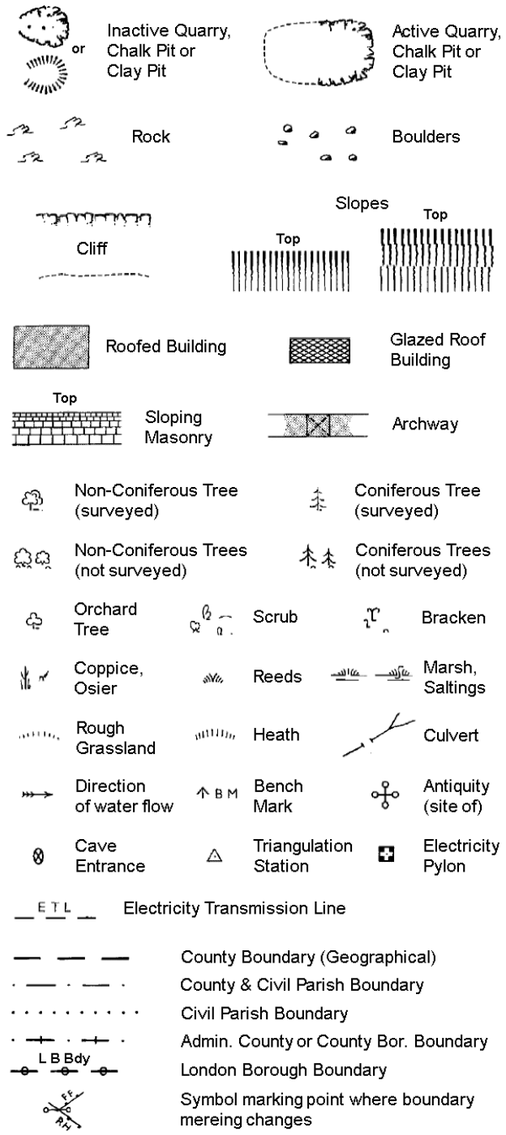
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	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

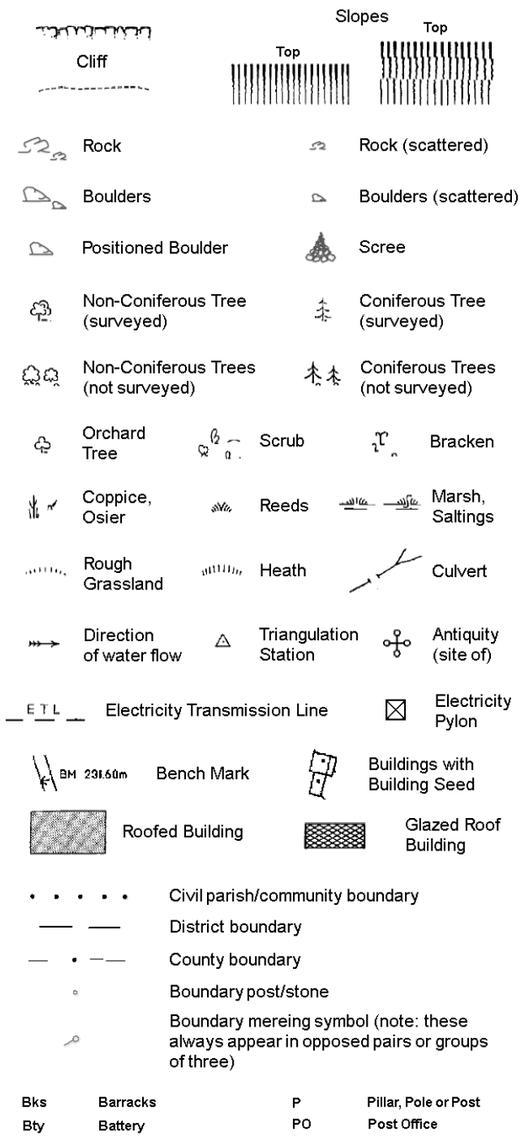
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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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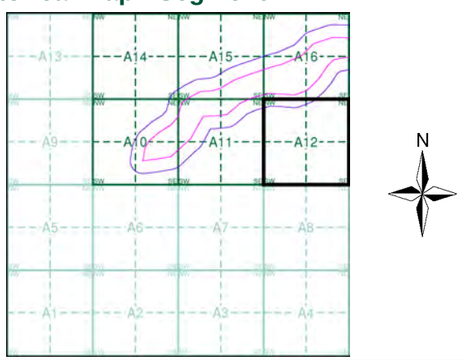
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1879	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1919	4
Glamorganshire	1:2,500	1943	5
Ordnance Survey Plan	1:2,500	1972 - 1973	6
Additional SIMs	1:2,500	1977	7
Large-Scale National Grid Data	1:2,500	1993	8
Large-Scale National Grid Data	1:2,500	1993	9
Large-Scale National Grid Data	1:2,500	1994	10
Historical Aerial Photography	1:2,500	2000	11

Historical Map - Segment A12



Order Details

Order Number: 367701071_1_1
Customer Ref: 2025s0023
National Grid Reference: 303620, 167950
Slice: A
Site Area (Ha): 40.66
Search Buffer (m): 100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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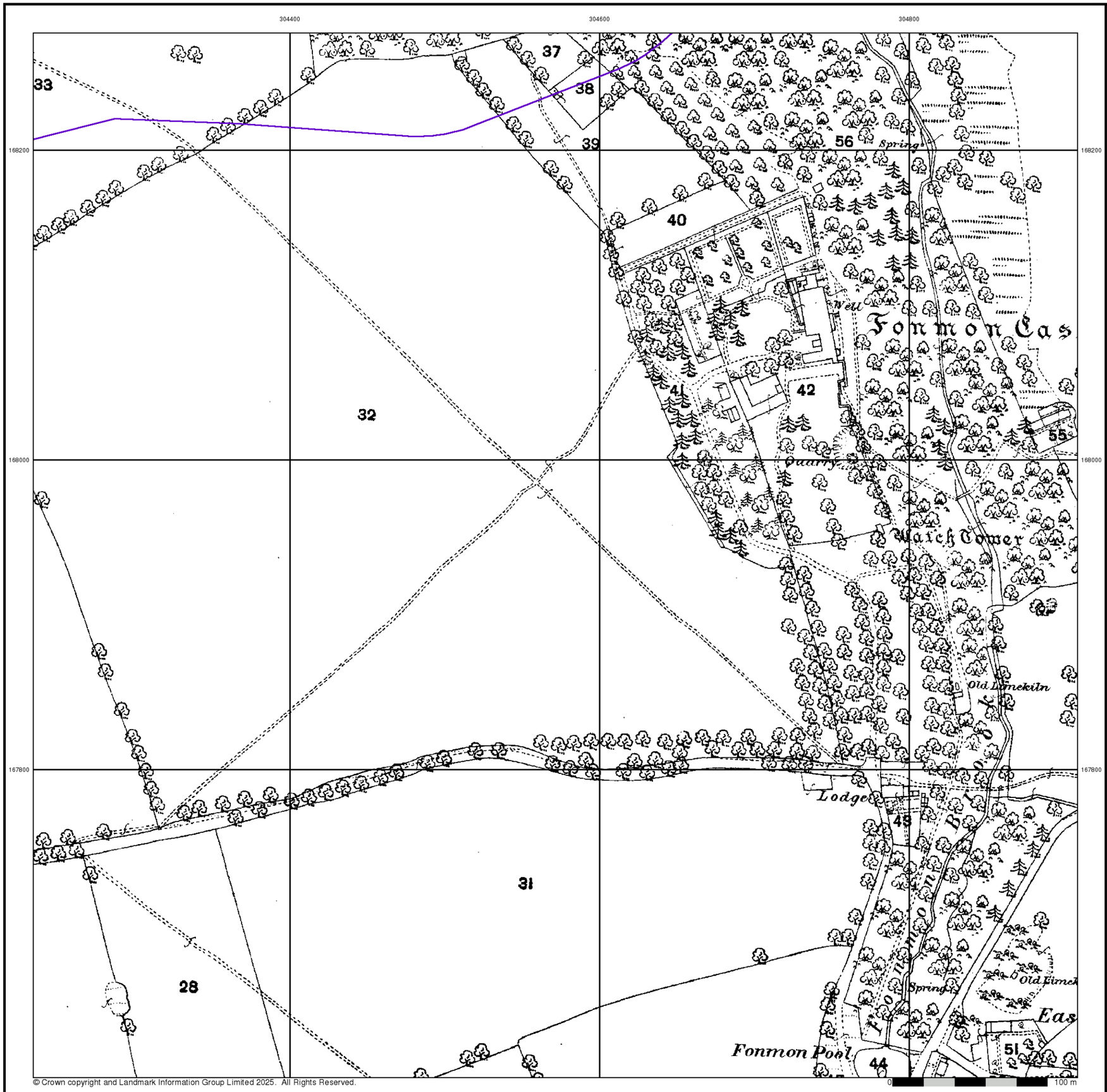
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Glamorganshire

Published 1879

Source map scale - 1:2,500

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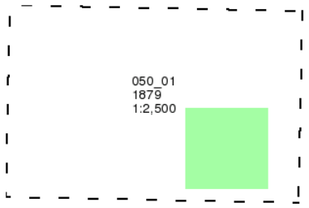
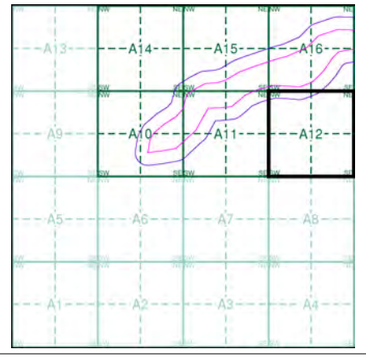
Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

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Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

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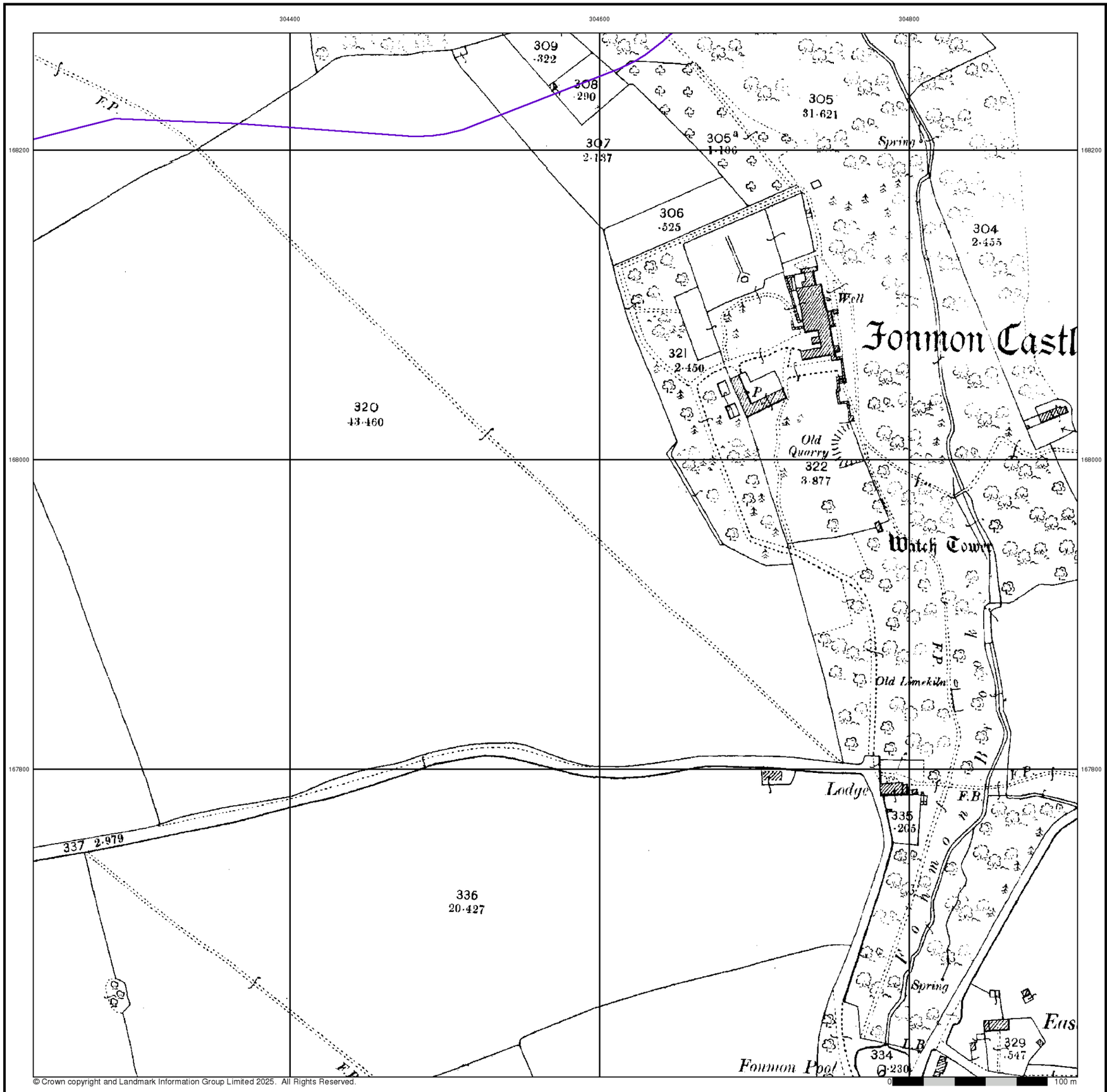

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Glamorganshire

Published 1900

Source map scale - 1:2,500

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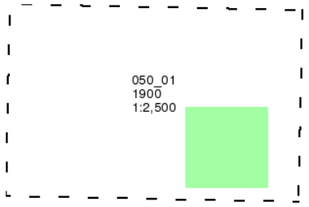
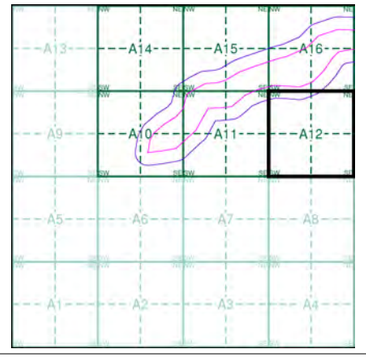


Historical Map - Segment A12



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
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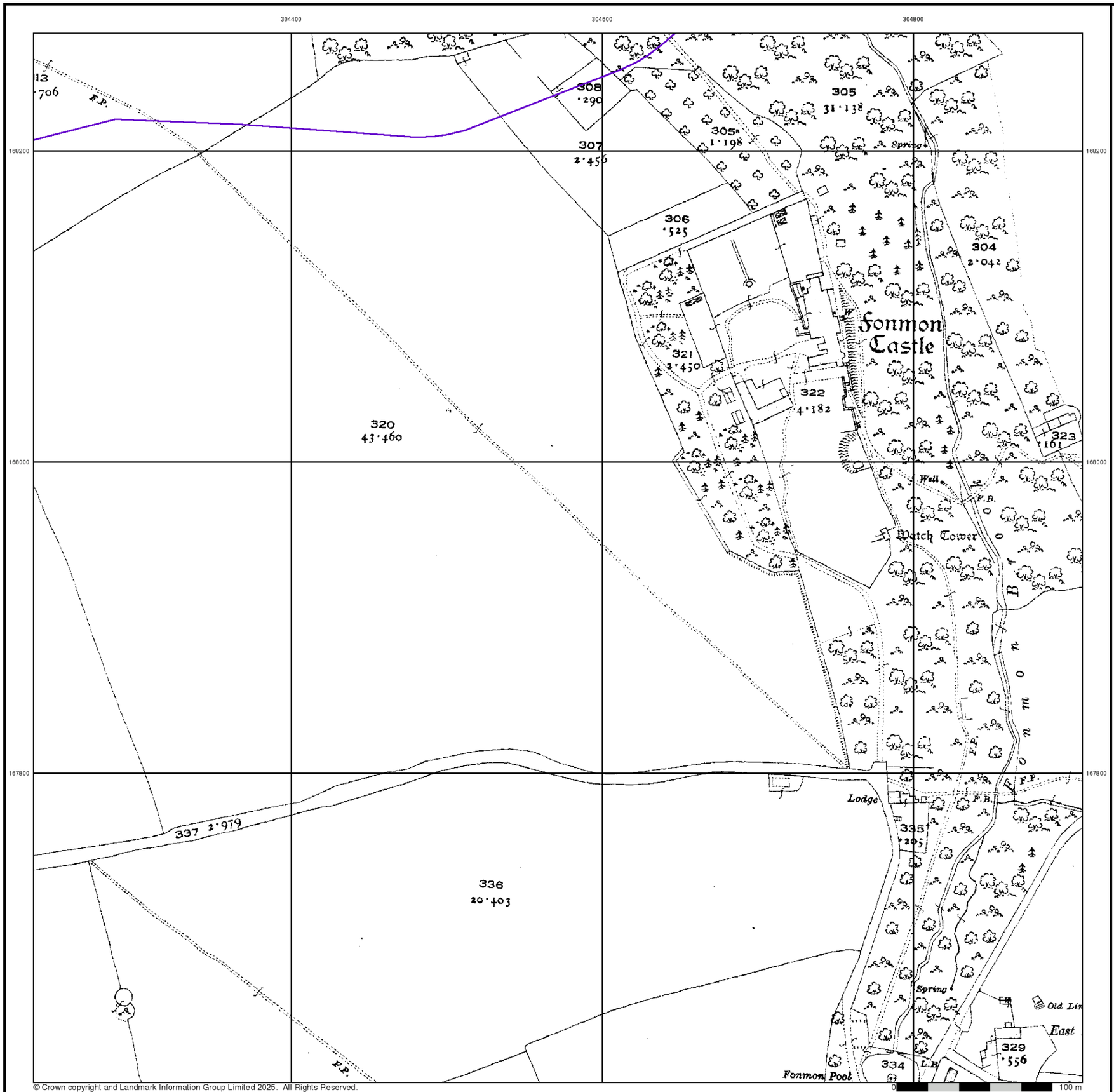

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Glamorganshire

Published 1919

Source map scale - 1:2,500

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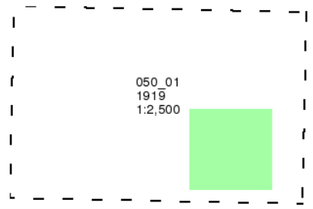
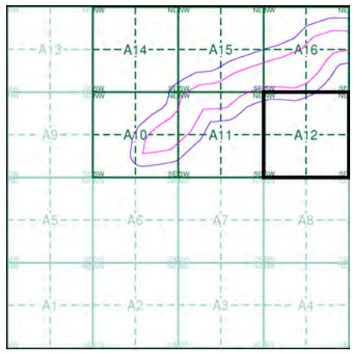
Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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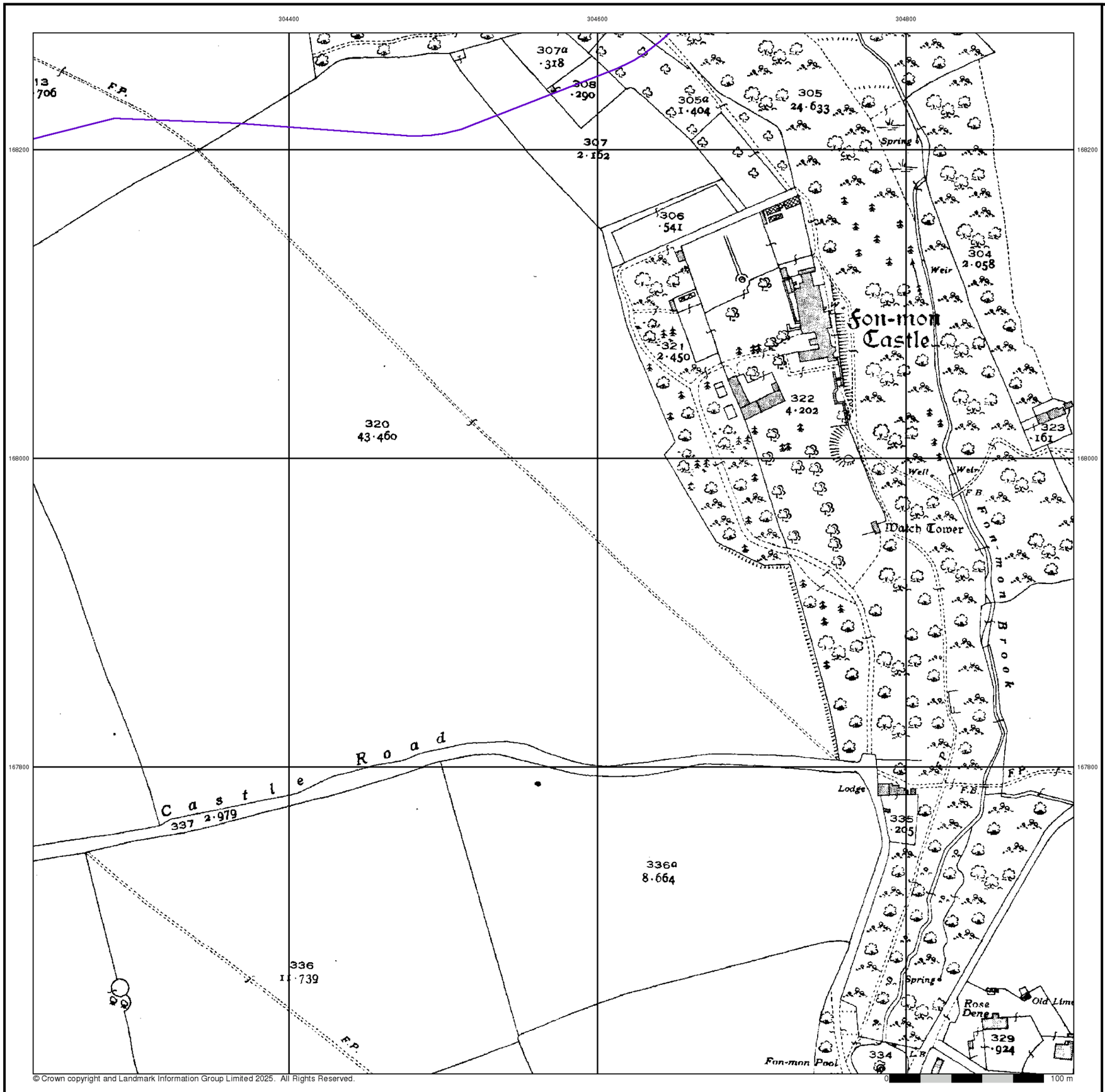

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Glamorganshire

Published 1943

Source map scale - 1:2,500

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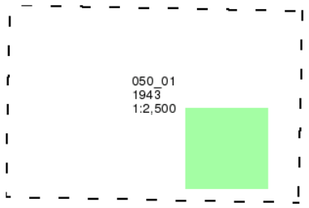
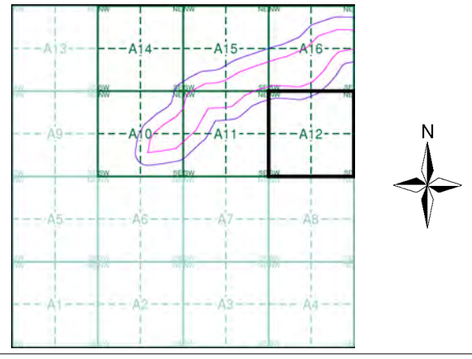


Historical Map - Segment A12



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

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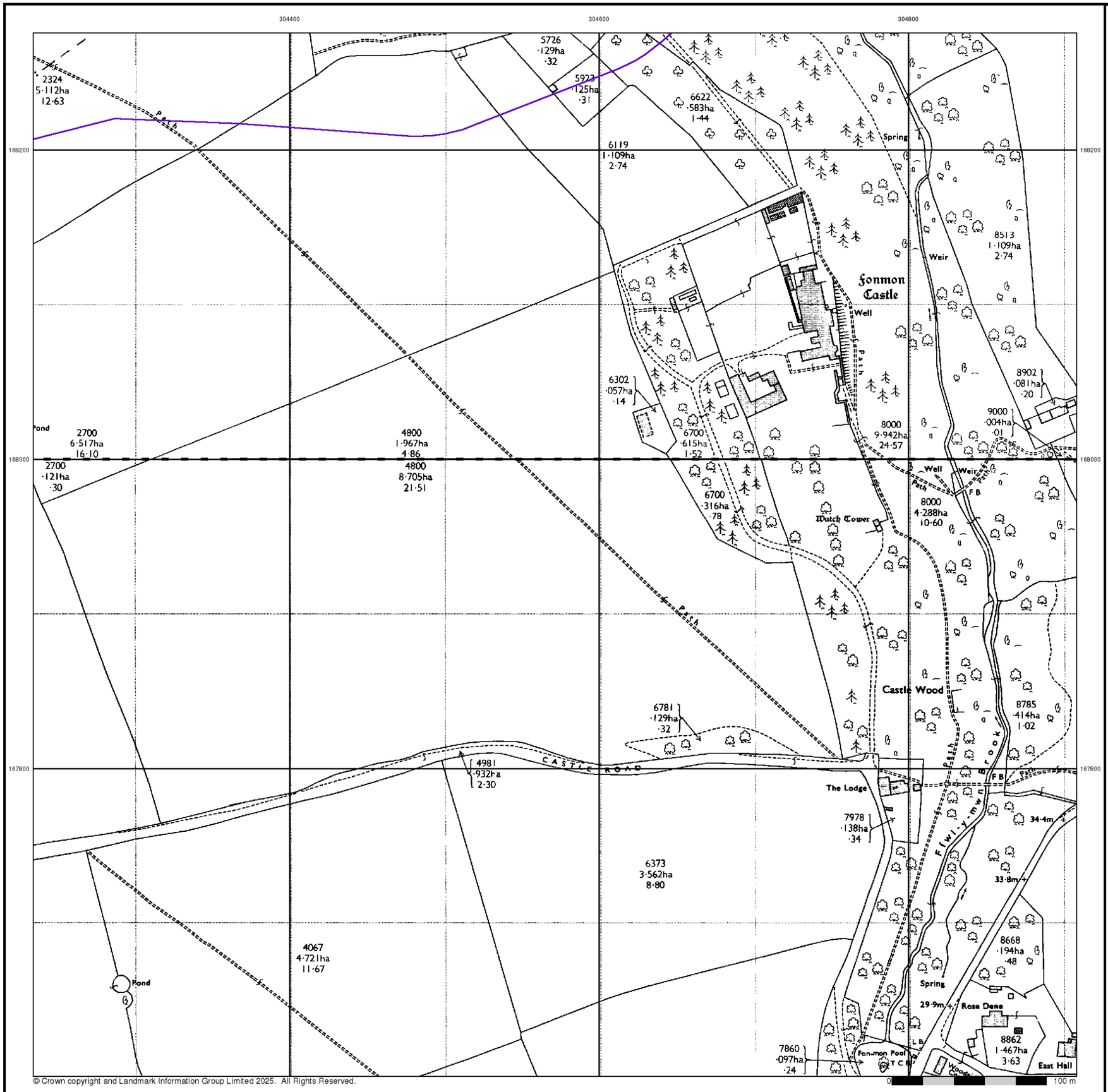

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Ordnance Survey Plan

Published 1972 - 1973

Source map scale - 1:2,500

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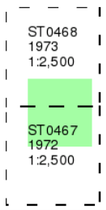
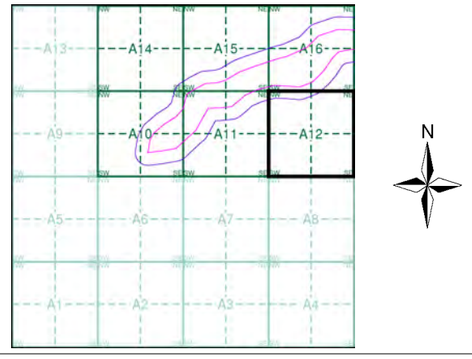
Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

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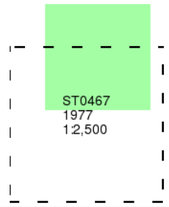
Additional SIMs

Published 1977

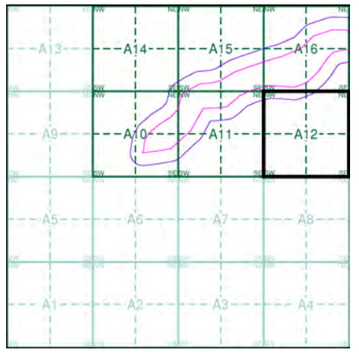
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

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Large-Scale National Grid Data

Published 1993

Source map scale - 1:2,500

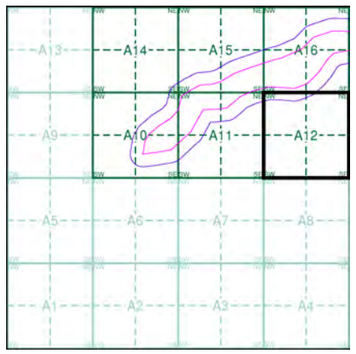
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

Map Name(s) and Date(s)

ST0468
1993
1:2,500

ST0467
1993
1:2,500

Historical Map - Segment A12



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

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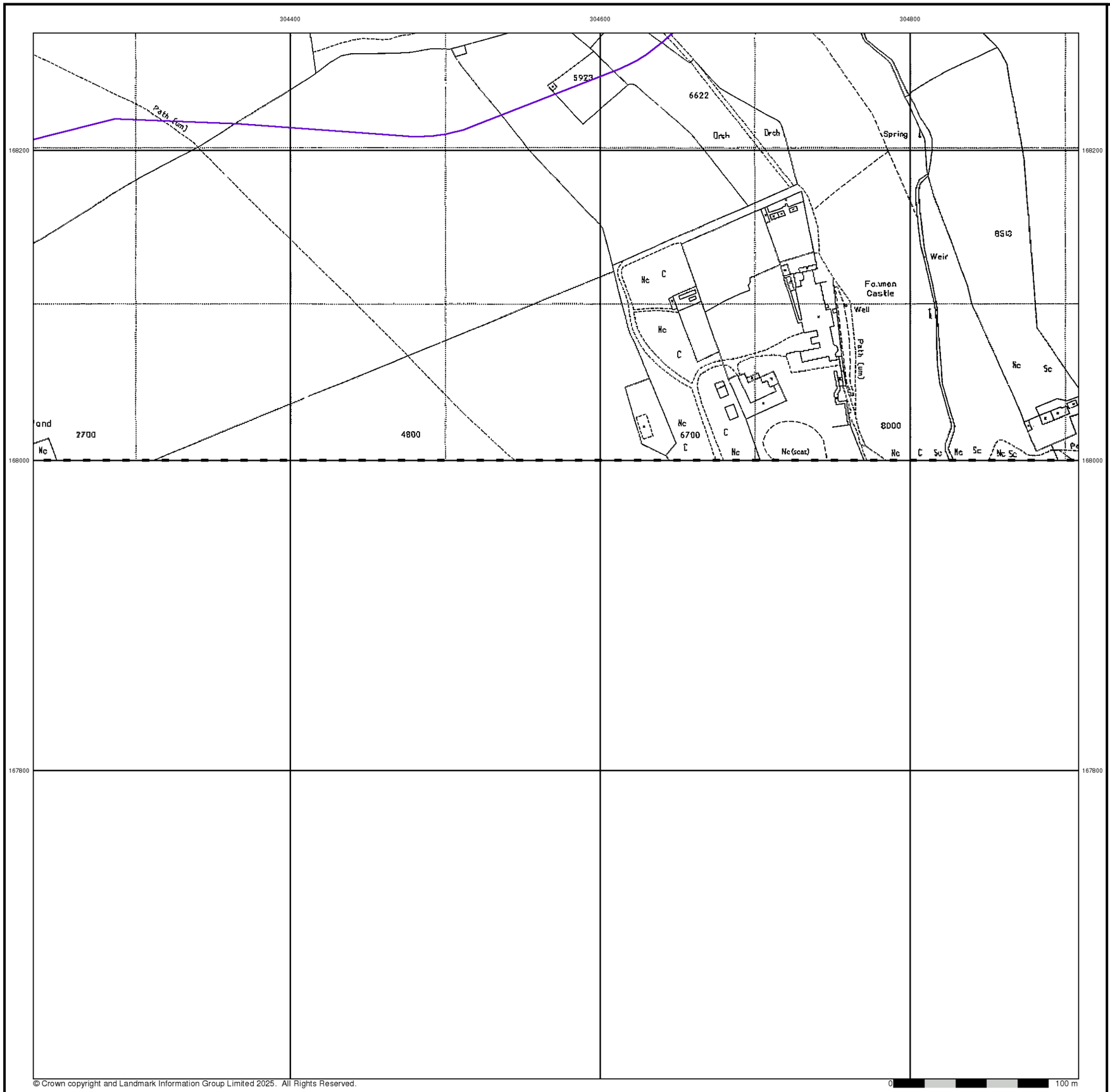

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Large-Scale National Grid Data

Published 1993

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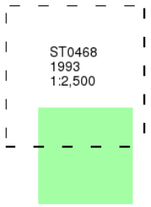
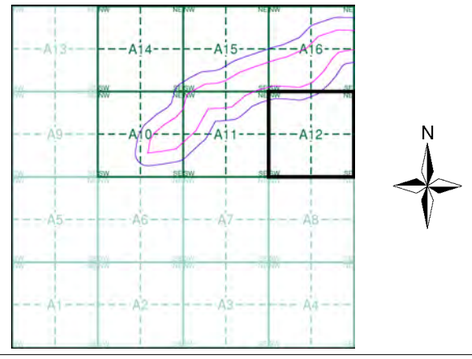


Historical Map - Segment A12



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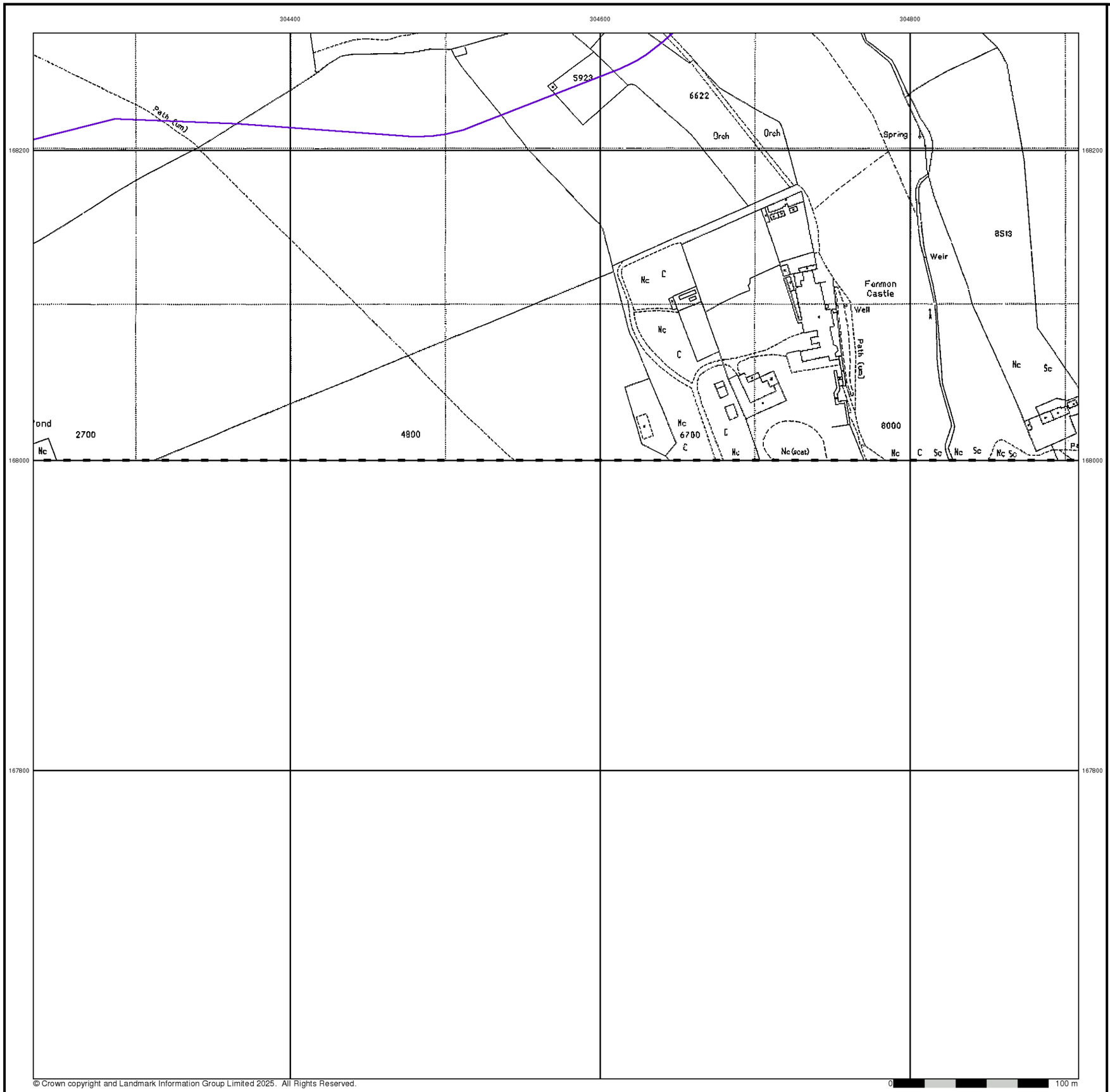

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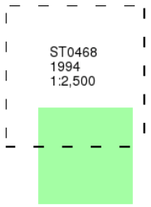
Large-Scale National Grid Data

Published 1994

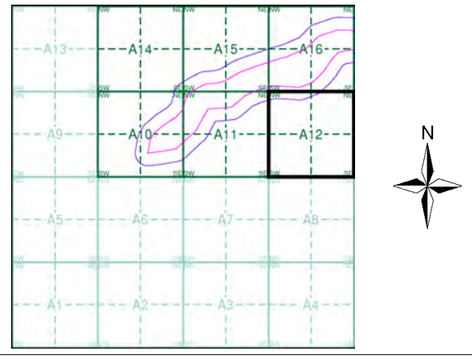
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



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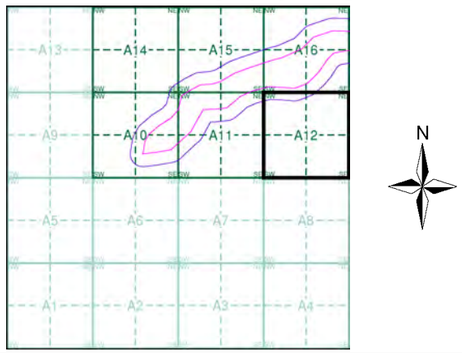
Historical Aerial Photography

Published 2000

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 A12



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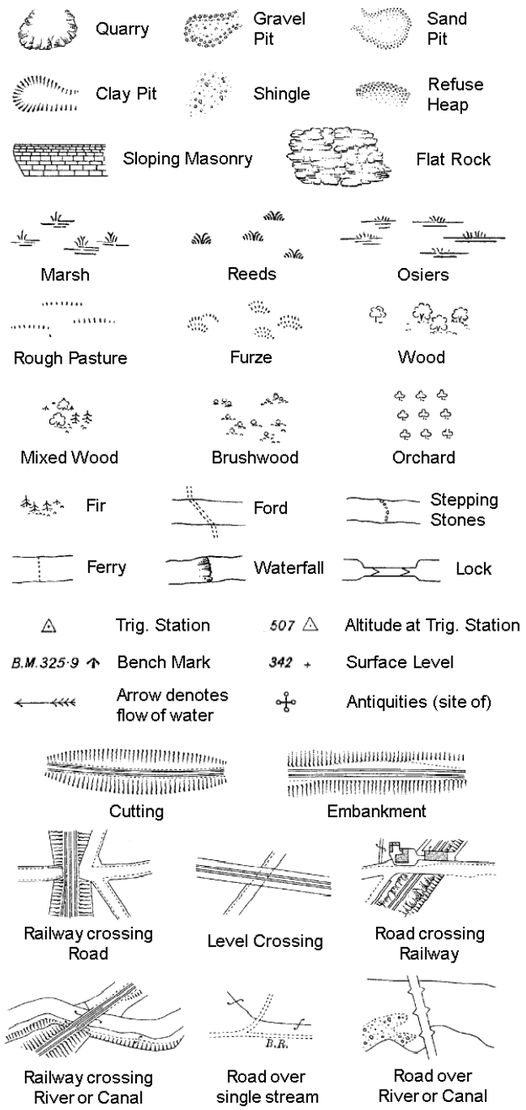
Historical Mapping Legends

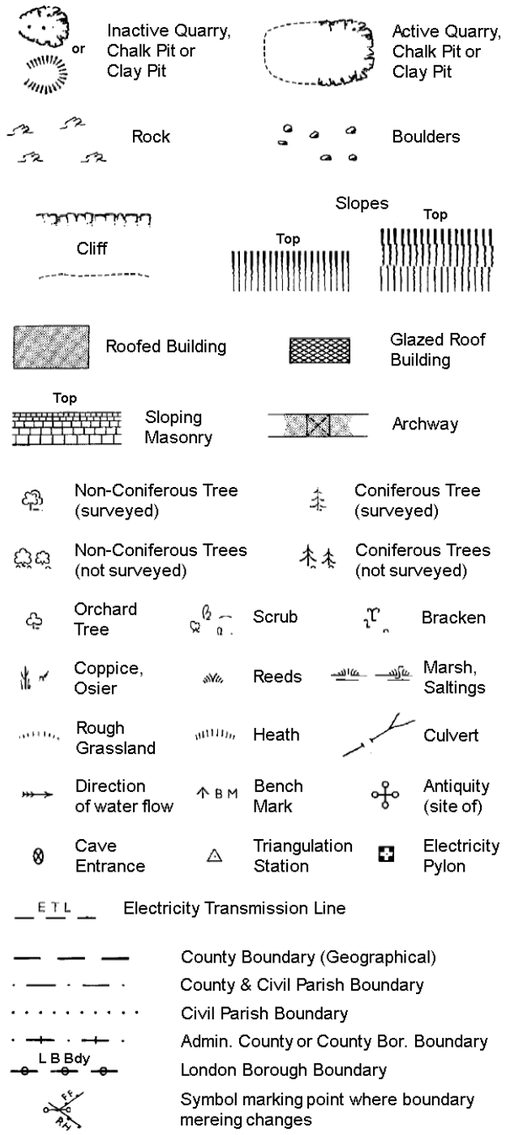
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	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

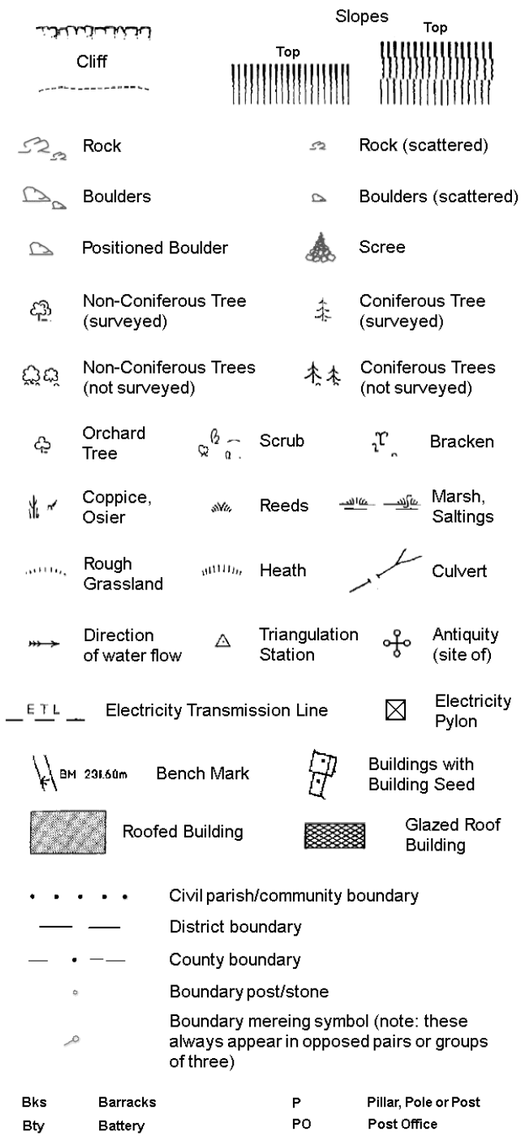
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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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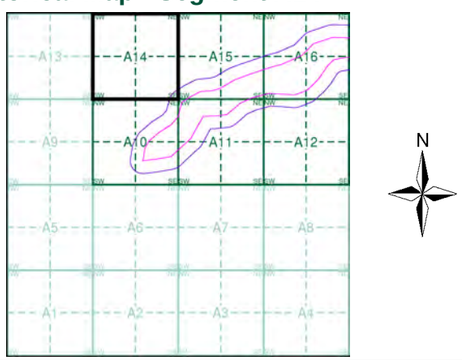
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1879	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1919	4
Glamorganshire	1:2,500	1943	5
Ordnance Survey Plan	1:2,500	1972	6
Additional SIMs	1:2,500	1987 - 1989	7
Large-Scale National Grid Data	1:2,500	1993	8
Historical Aerial Photography	1:2,500	2000	9

Historical Map - Segment A14



Order Details

Order Number: 367701071_1_1
Customer Ref: 2025s0023
National Grid Reference: 303620, 167950
Slice: A
Site Area (Ha): 40.66
Search Buffer (m): 100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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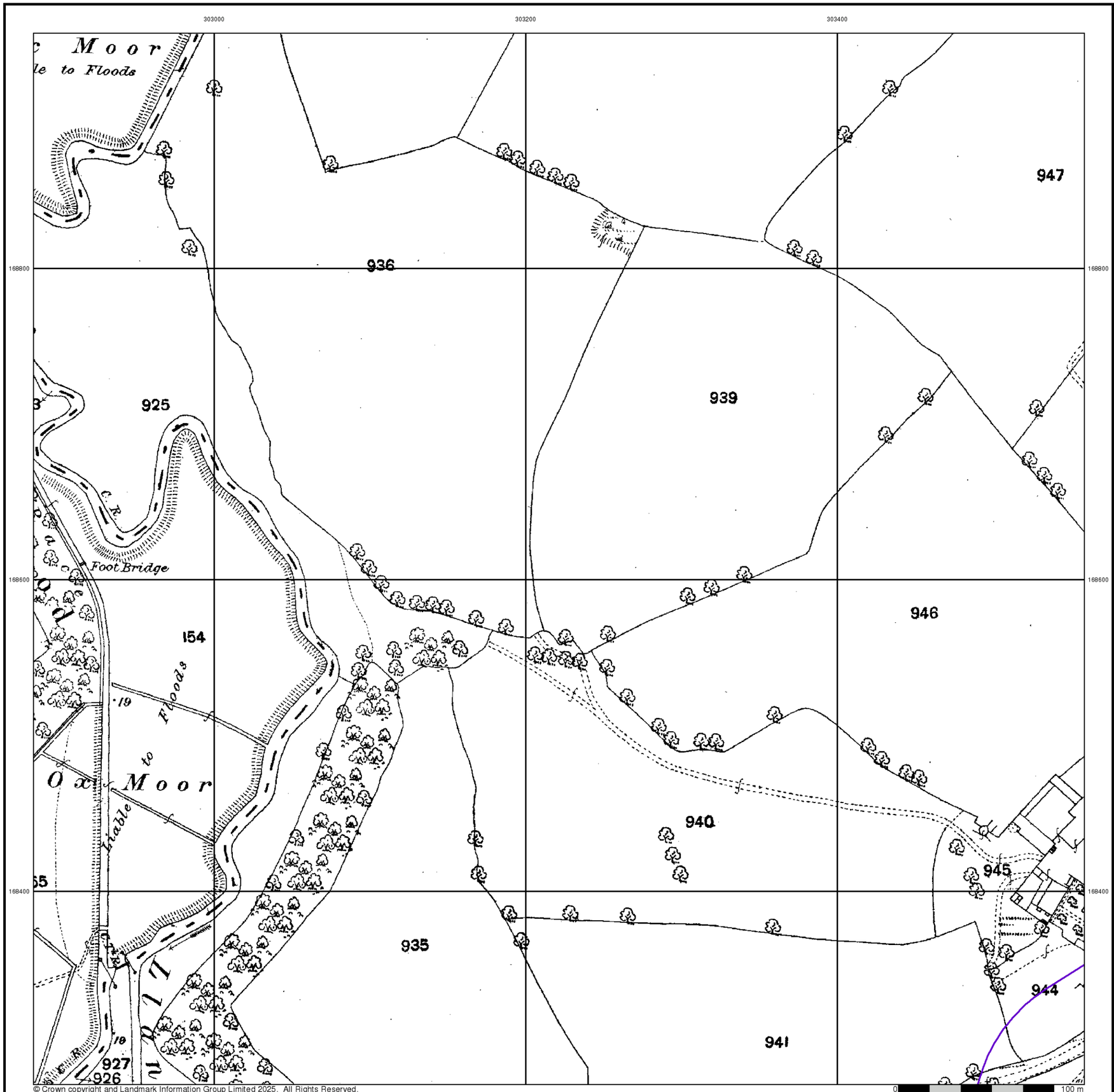

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Glamorganshire

Published 1879

Source map scale - 1:2,500

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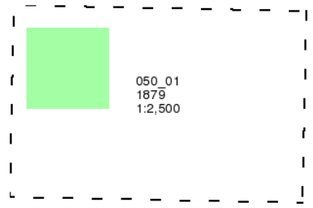
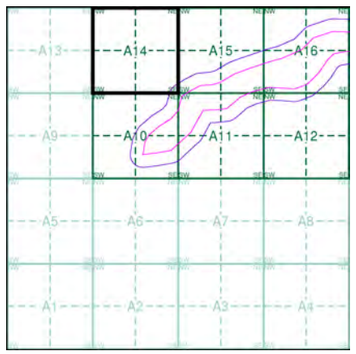
Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

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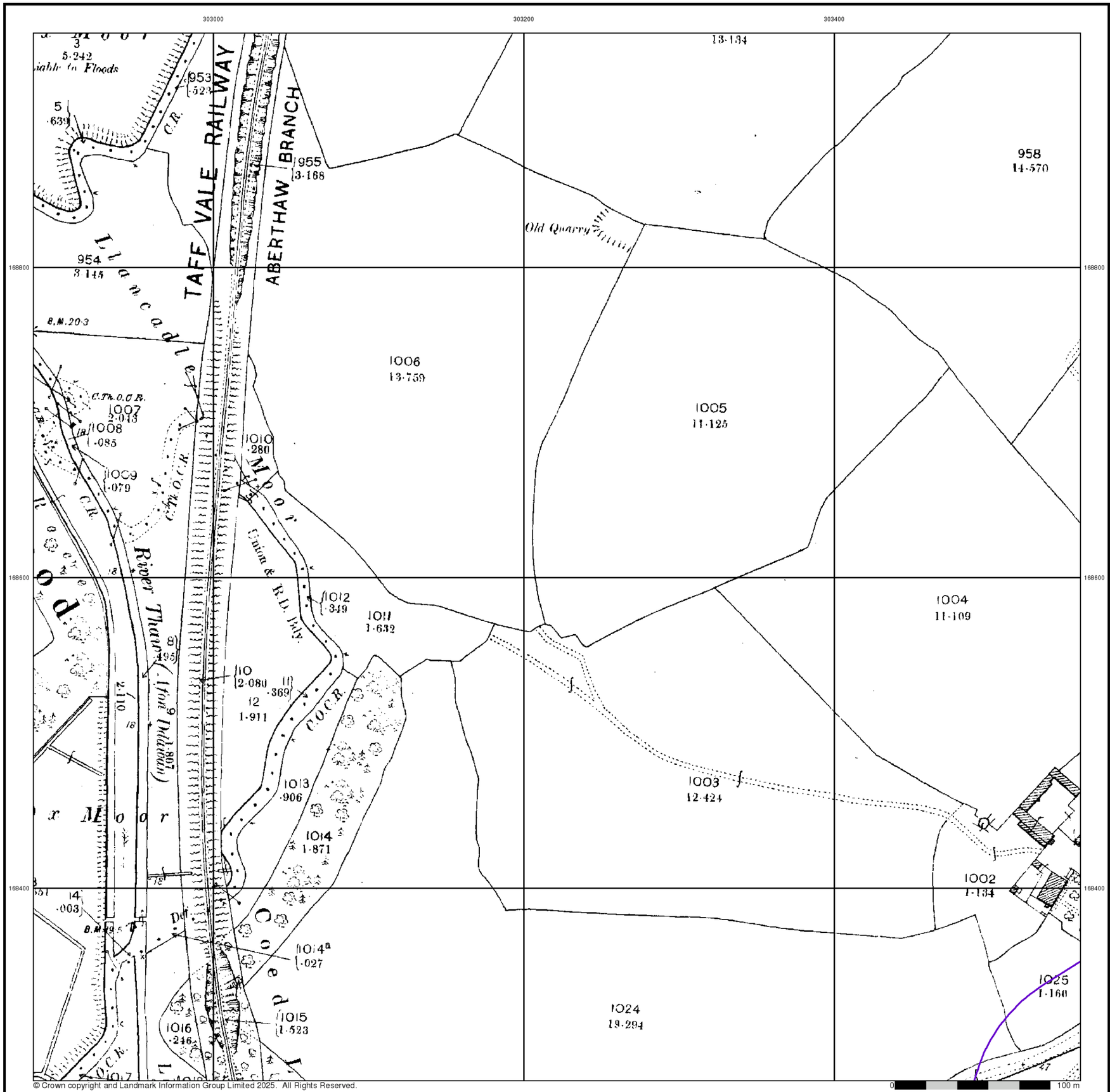

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Glamorganshire

Published 1900

Source map scale - 1:2,500

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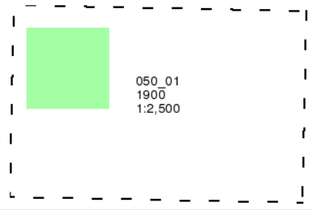
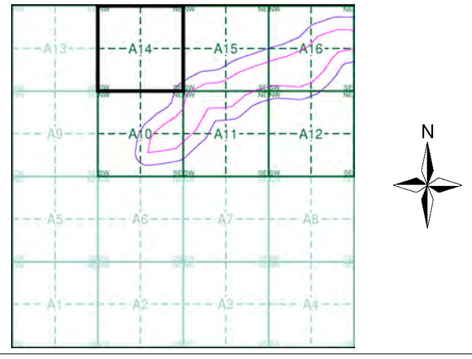
Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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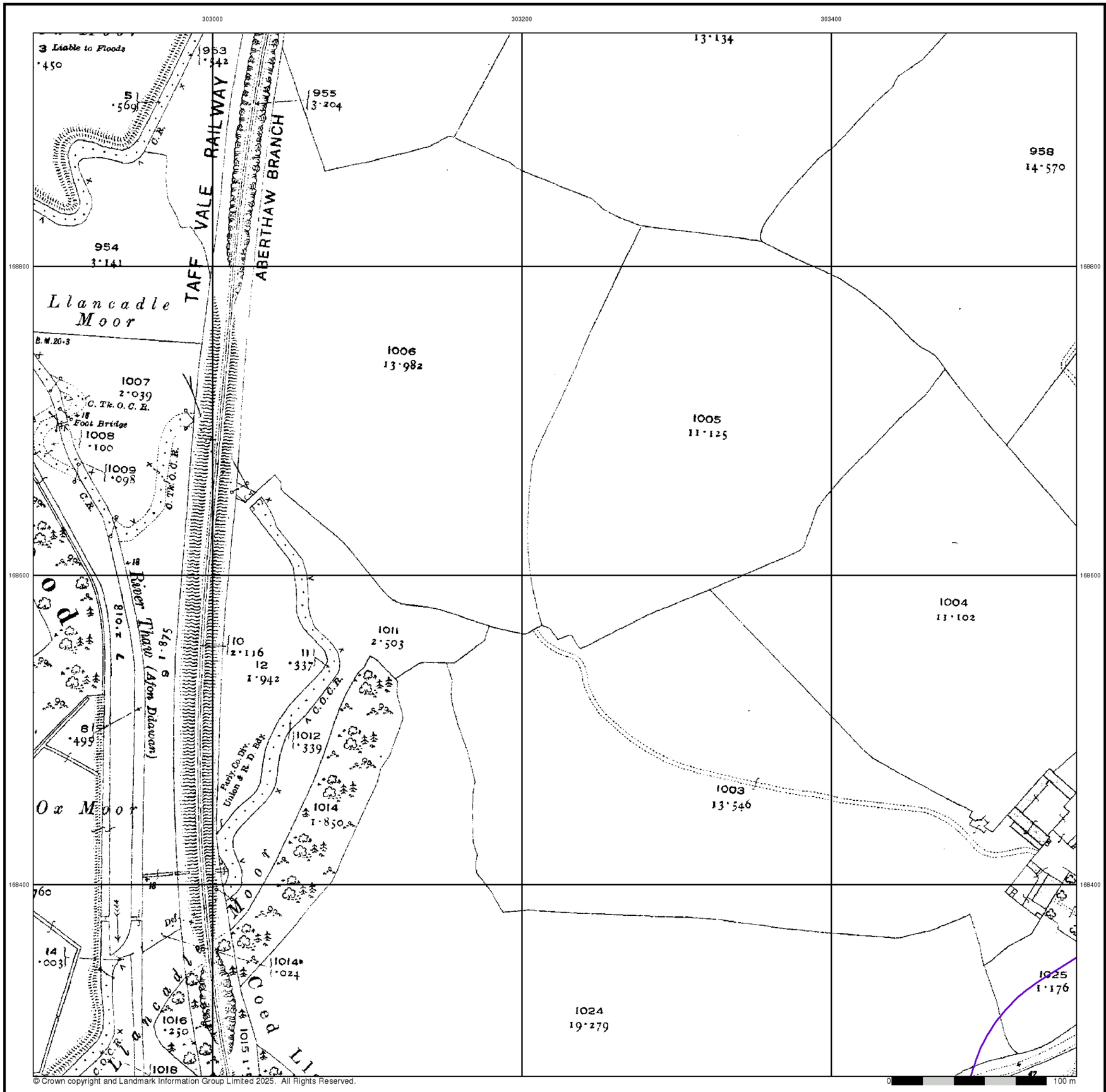

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Glamorganshire

Published 1919

Source map scale - 1:2,500

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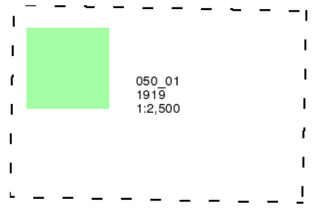
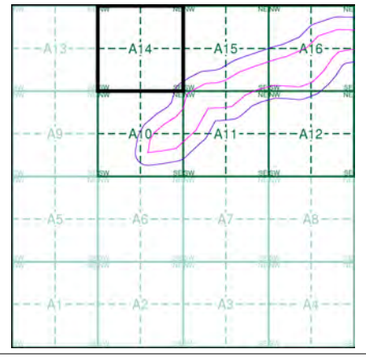
Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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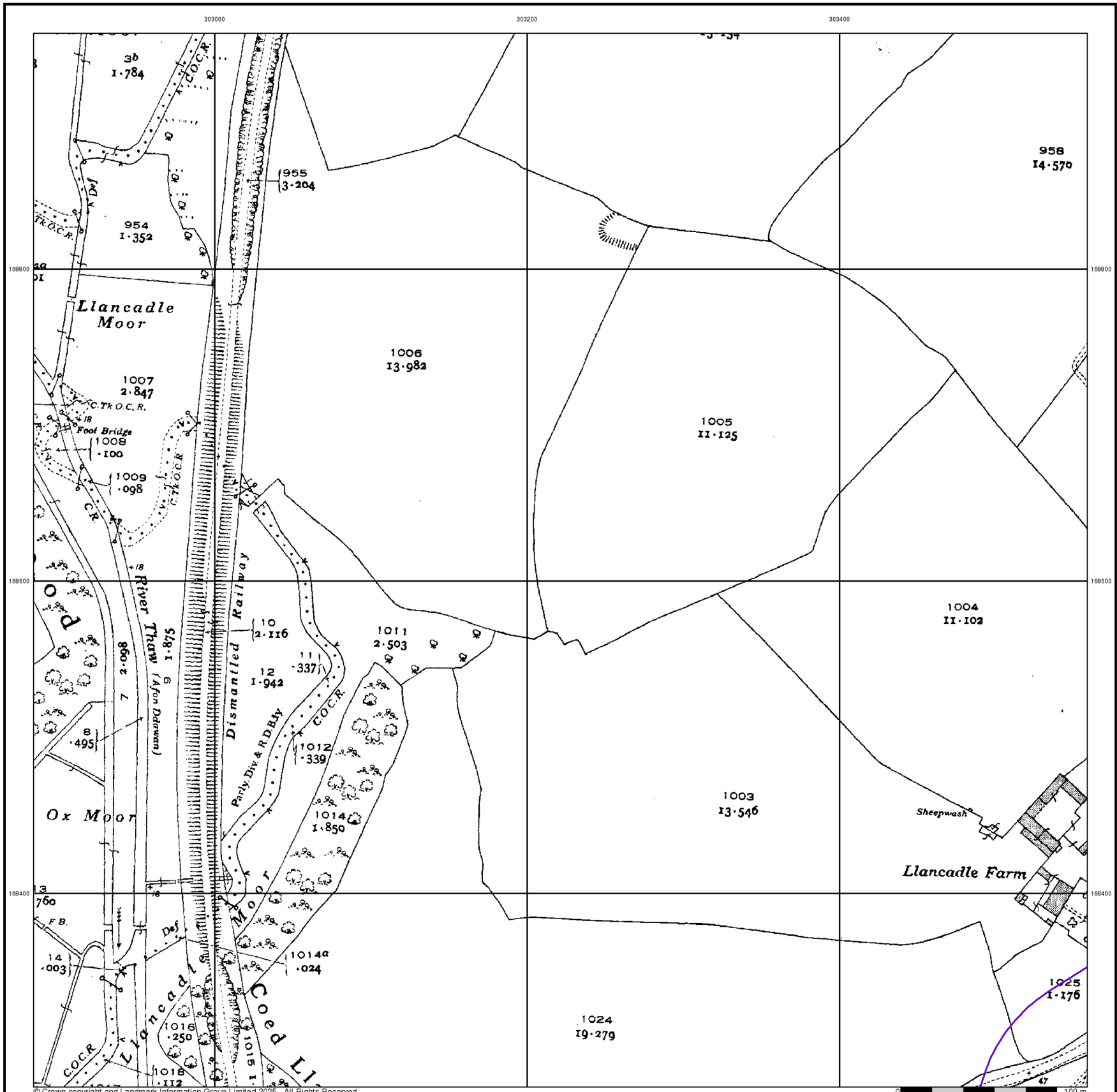

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Glamorganshire

Published 1943

Source map scale - 1:2,500

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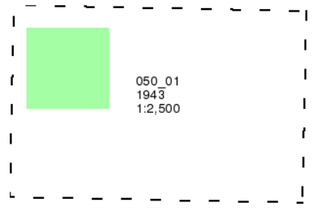
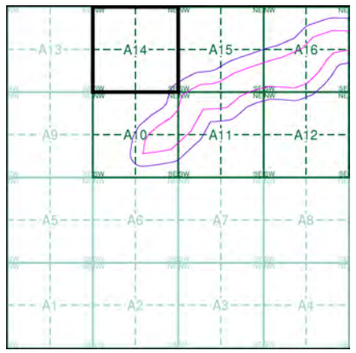
Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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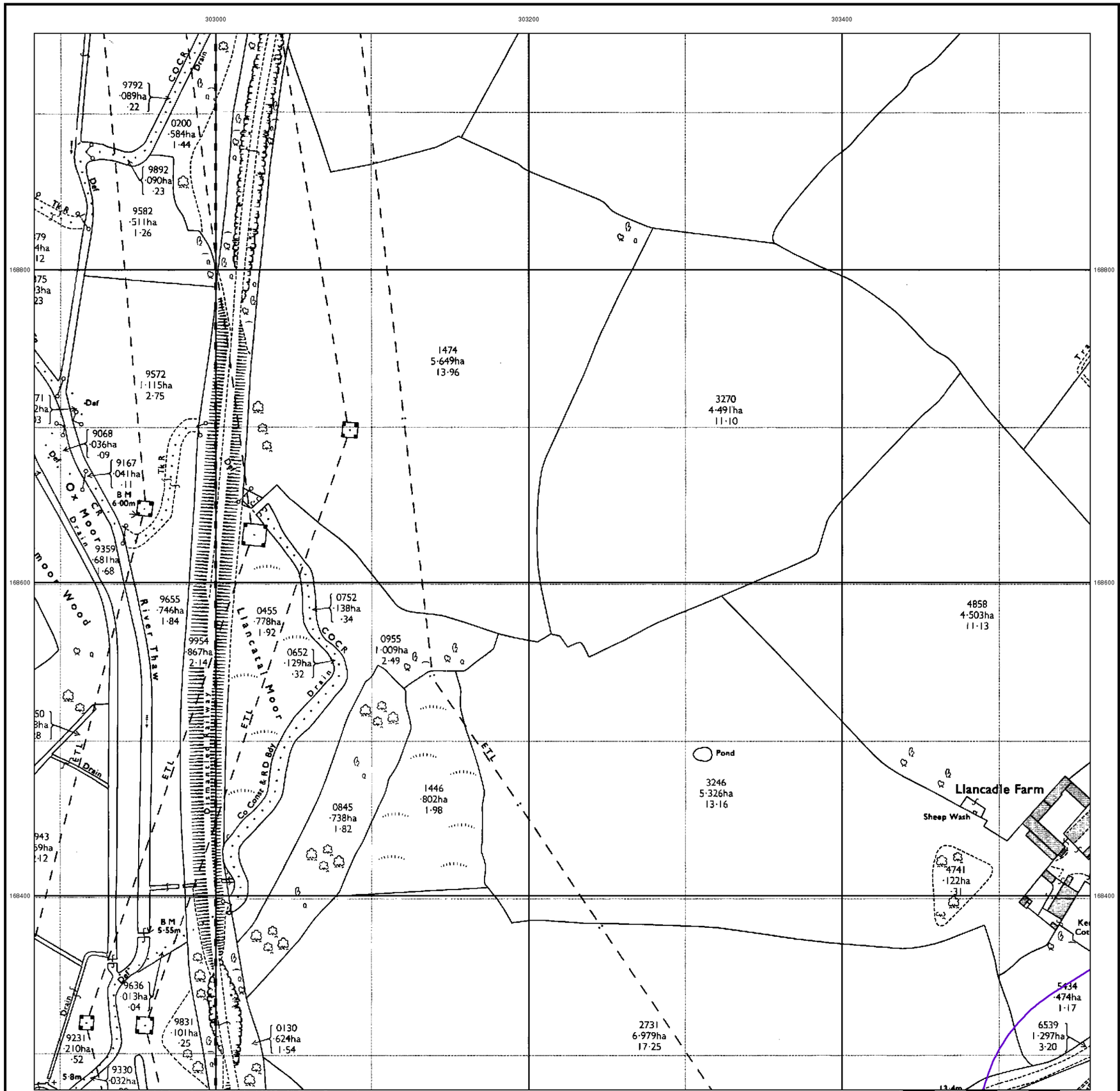

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Ordnance Survey Plan

Published 1972

Source map scale - 1:2,500

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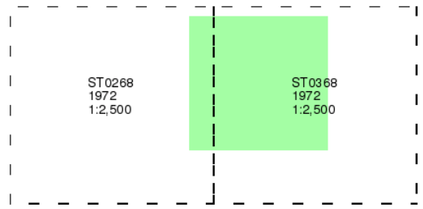
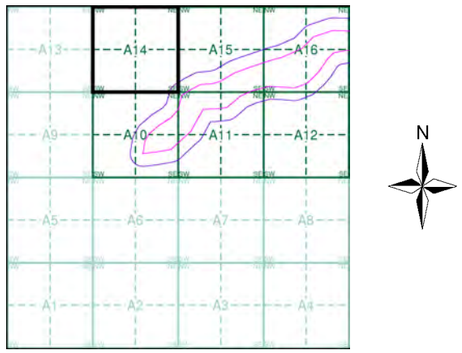
Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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303000
303200
303400
168800
168600
168400
9792 ·089ha ·22
0200
9892 ·090ha ·23
9582 ·511ha 1·26
9572 1·115ha 2·75
9068 ·036ha ·09
9167 ·041ha ·11
BM 6·00m
9359 ·681ha 1·68
9655 ·746ha 1·84
9954
0455 ·778ha 1·92
0752 ·138ha ·34
0652 ·29ha ·32
0955 1·009ha 2·49
1446 ·802ha 1·98
0845 ·738ha 1·82
9636 ·013ha ·04
9831 ·101ha ·25
0130 ·624ha 1·54
9230 ·210ha ·52
9330 ·032ha ·08
BM 5·55m
5·8m
1·474 5·649ha 13·96
3270 4·491ha 1·10
El Ps
E.T.L.
Pond
Llancadle Farm
Sheep Wash
River Thaw
Llancarfan Moor
Cx Moor Drain
Wood
Drain
13·4m
0
100 m
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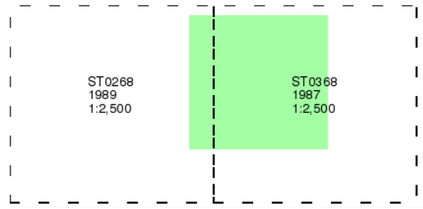
Additional SIMs

Published 1987 - 1989

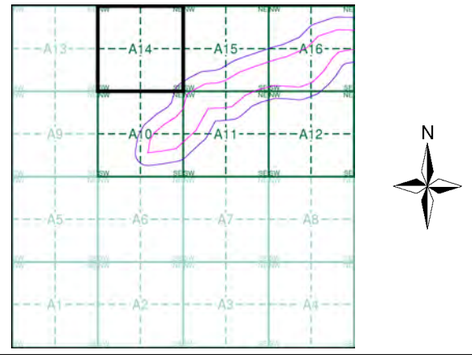
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

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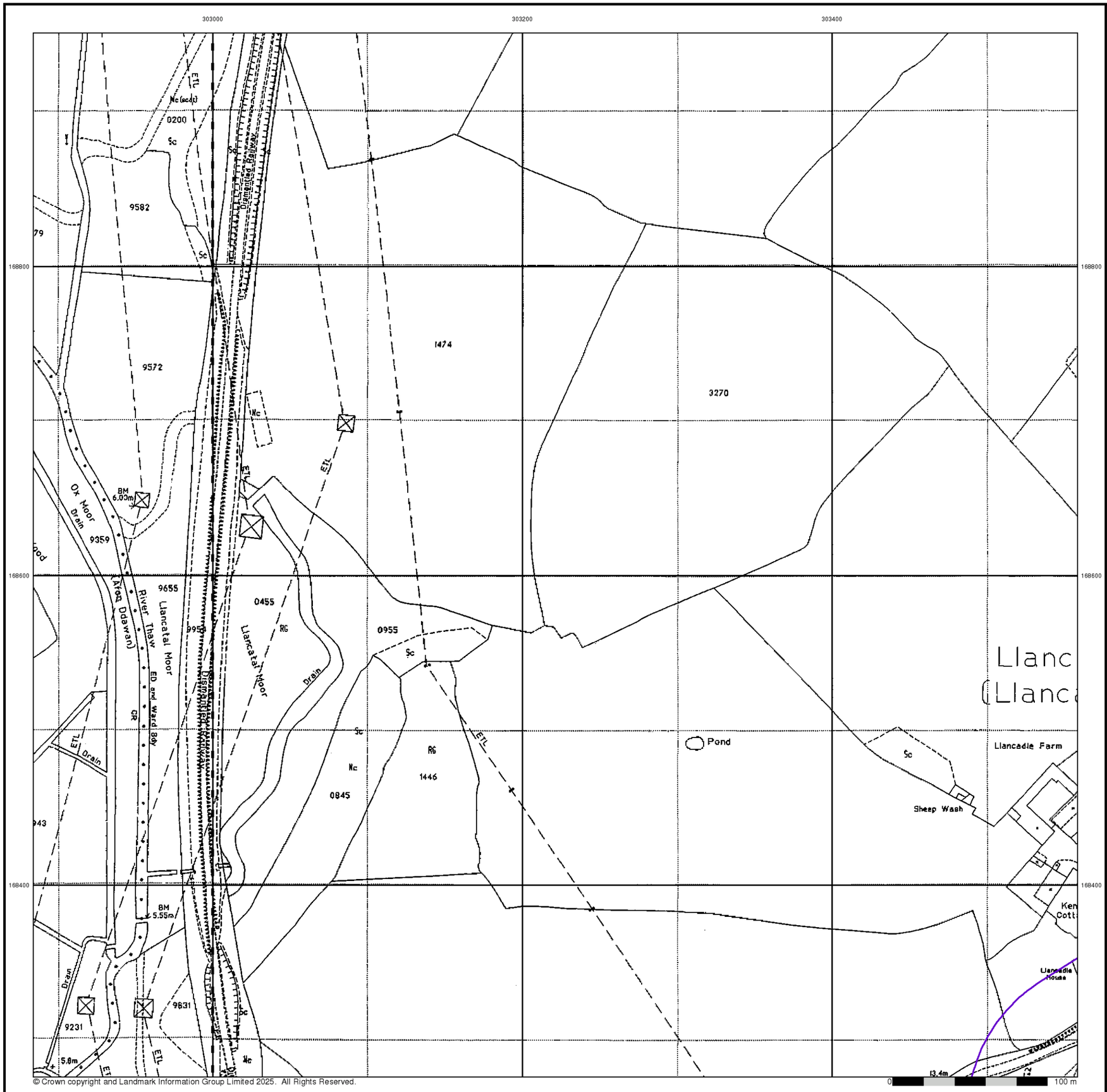

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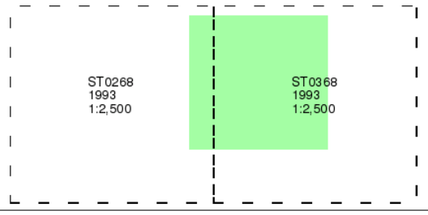
Large-Scale National Grid Data

Published 1993

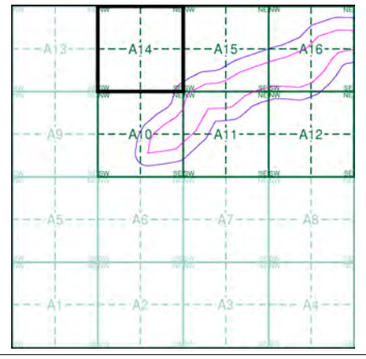
Source map scale - 1:2,500

'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 A14



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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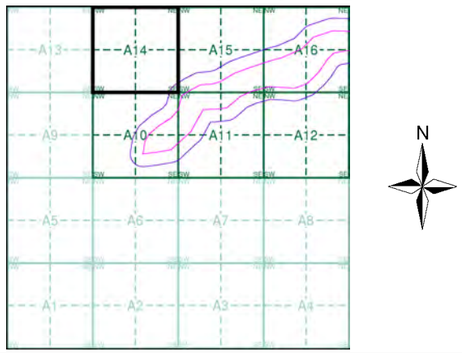
Historical Aerial Photography

Published 2000

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 A14



Order Details

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Site Details

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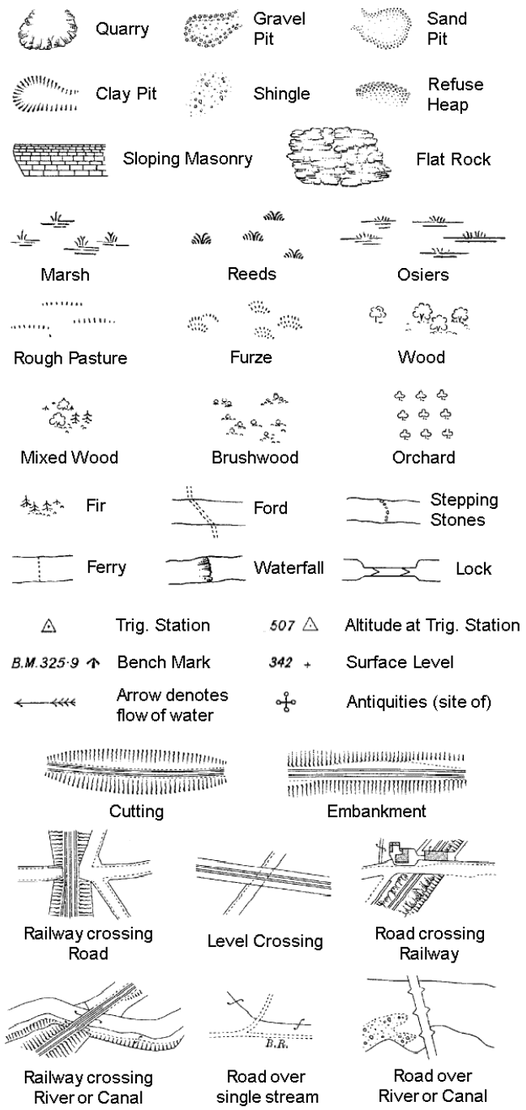
Historical Mapping Legends

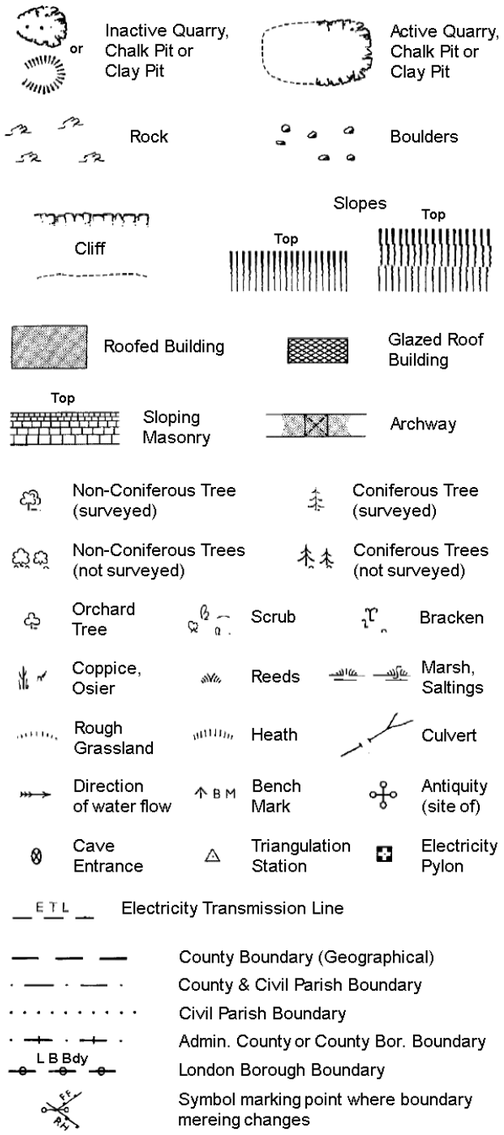
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

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

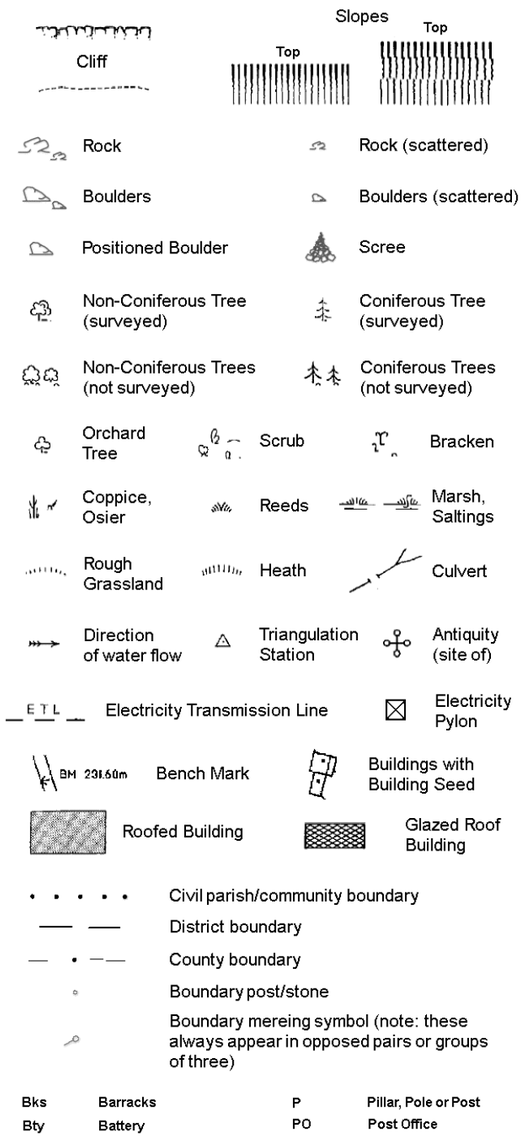
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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

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

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



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

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

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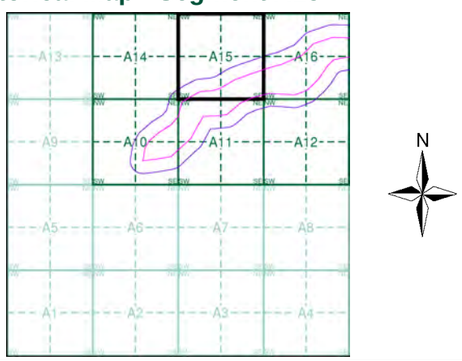
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1879	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1919	4
Glamorganshire	1:2,500	1943	5
Ordnance Survey Plan	1:2,500	1972 - 1973	6
Additional SIMs	1:2,500	1987	7
Large-Scale National Grid Data	1:2,500	1993	8
Large-Scale National Grid Data	1:2,500	1993	9
Large-Scale National Grid Data	1:2,500	1994	10
Historical Aerial Photography	1:2,500	2000	11

Historical Map - Segment A15



Order Details

Order Number: 367701071_1_1
Customer Ref: 2025s0023
National Grid Reference: 303620, 167950
Slice: A
Site Area (Ha): 40.66
Search Buffer (m): 100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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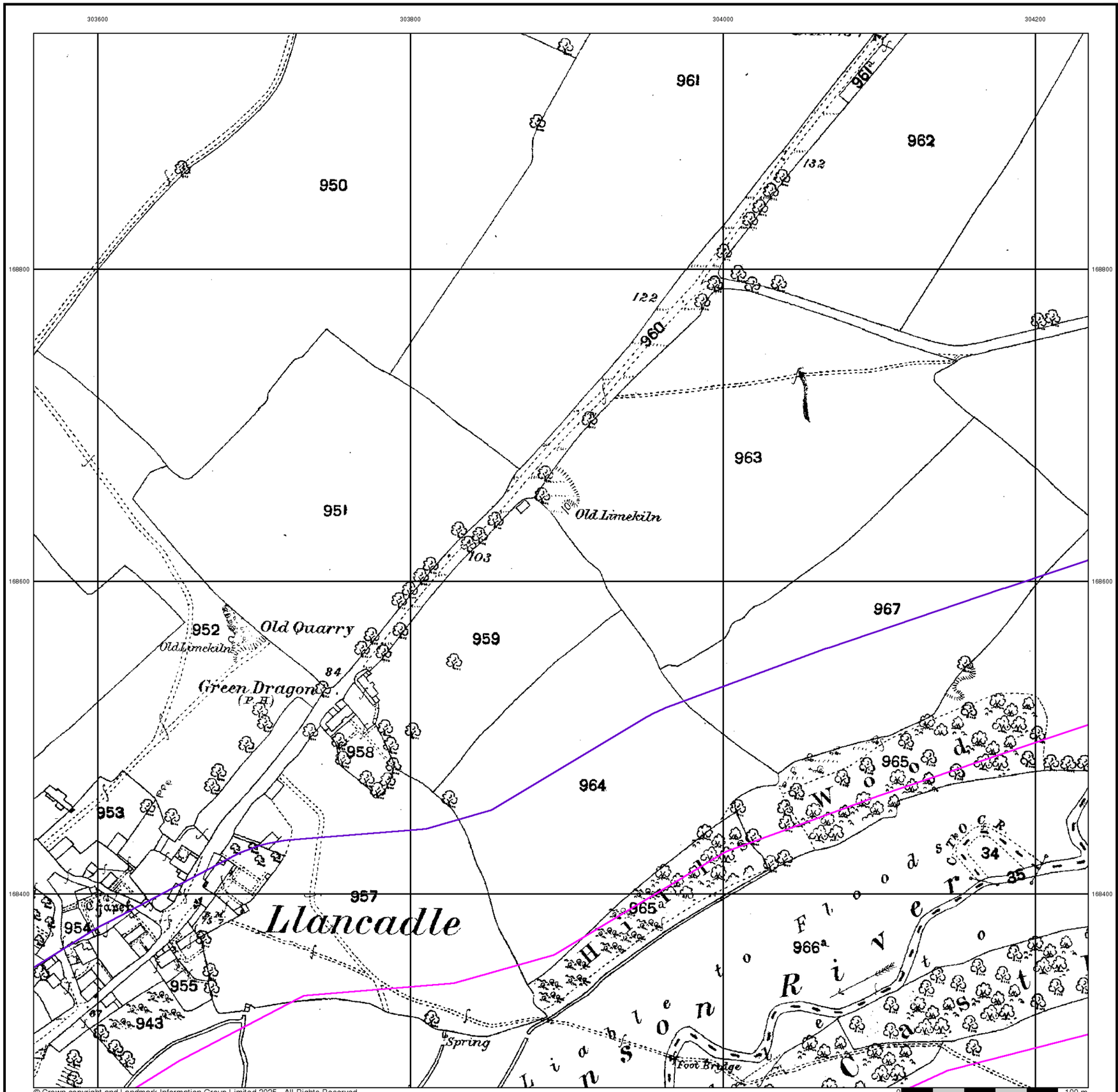

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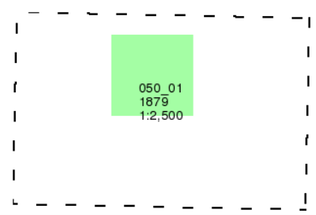
Glamorganshire

Published 1879

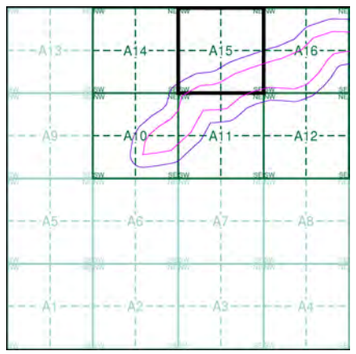
Source map scale - 1:2,500

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 A15



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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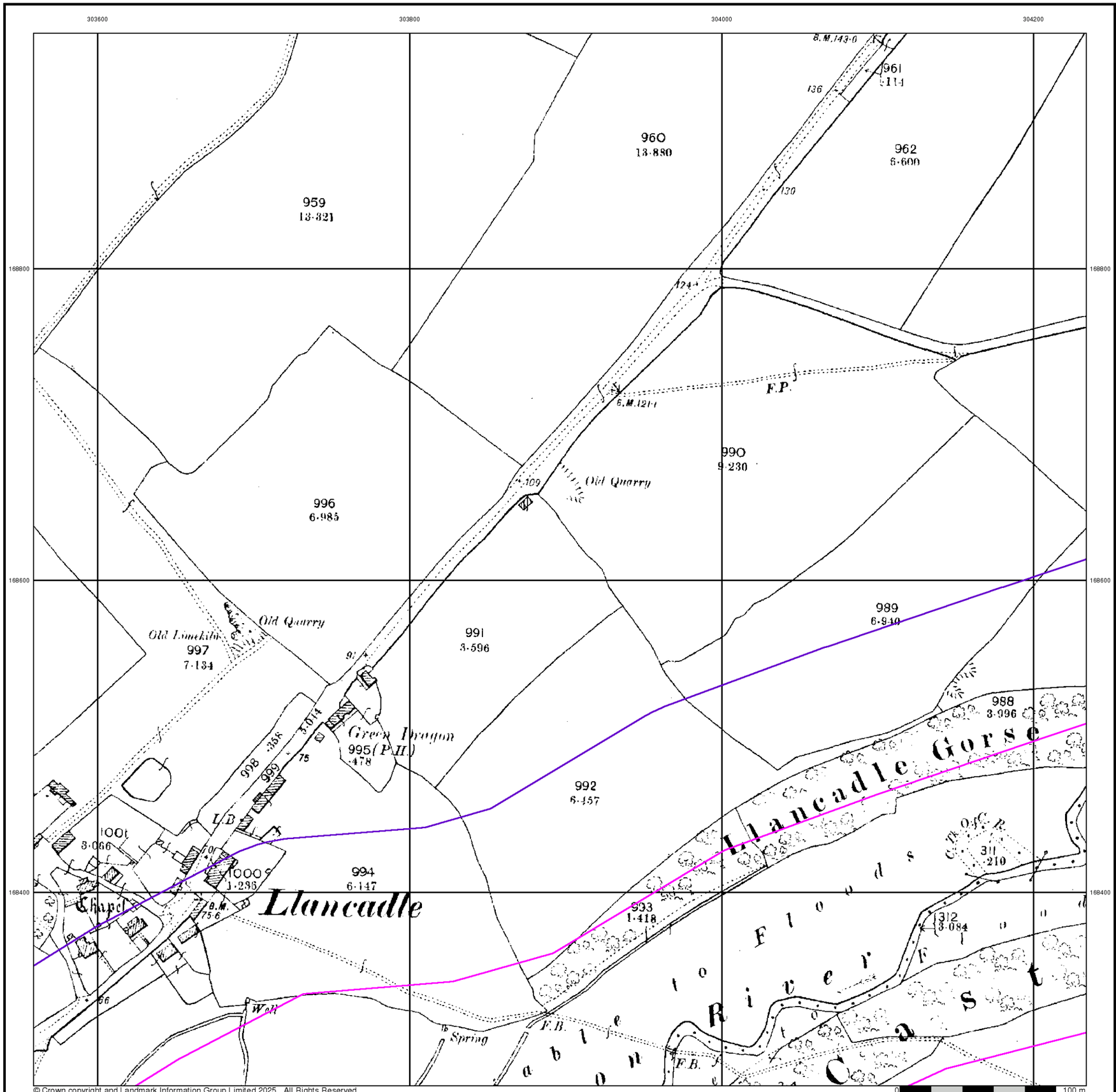
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Glamorganshire

Published 1900

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.

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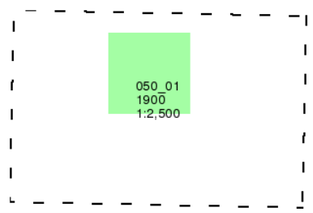
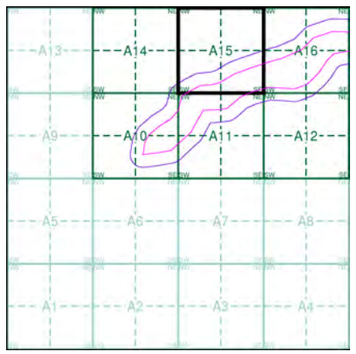


Historical Map - Segment A15



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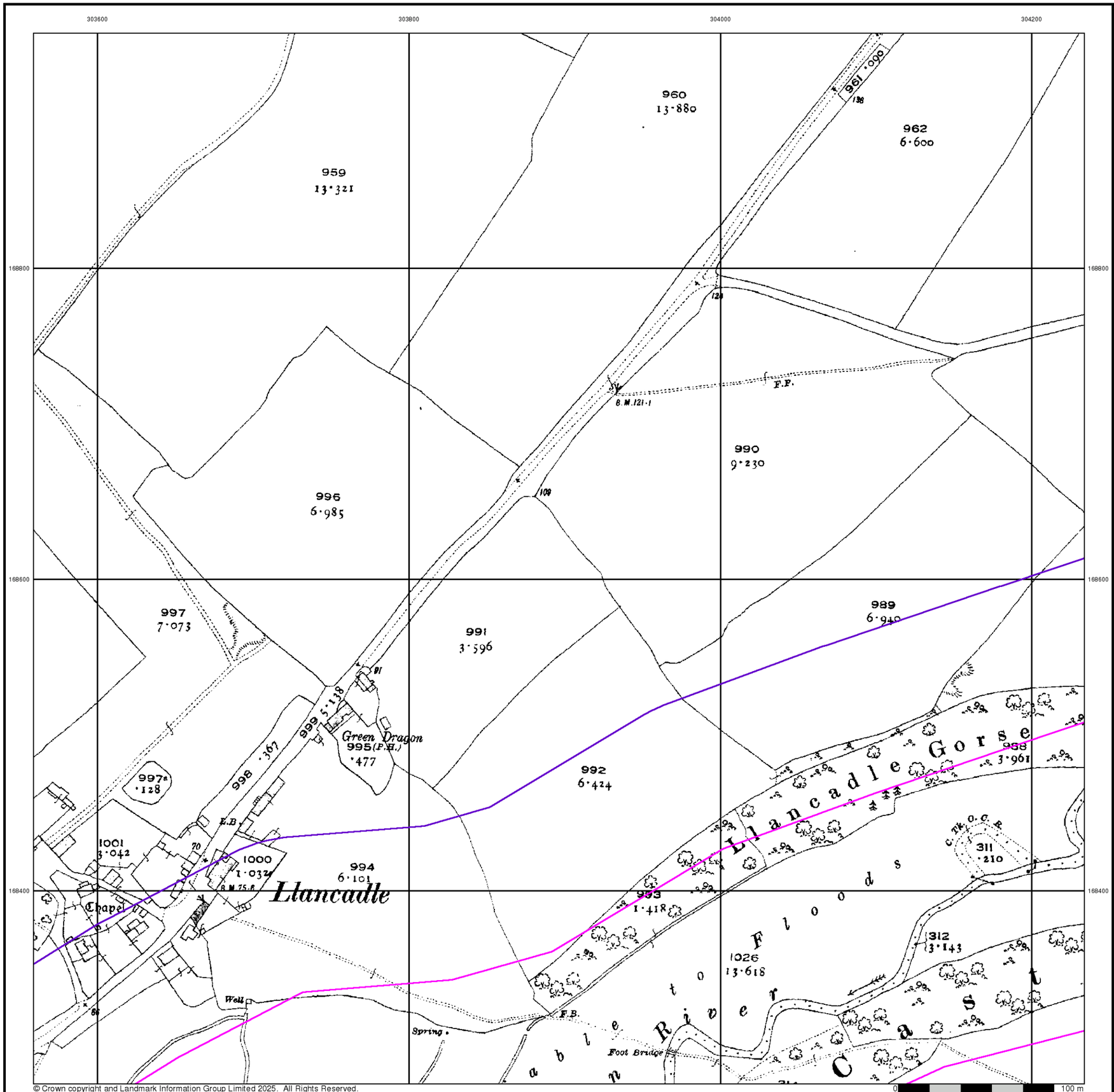

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Glamorganshire

Published 1919

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.

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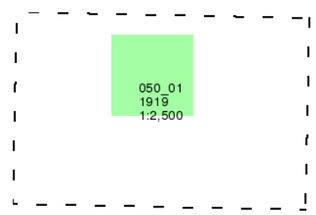
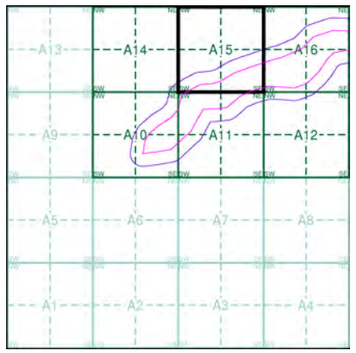


Historical Map - Segment A15



Order Details

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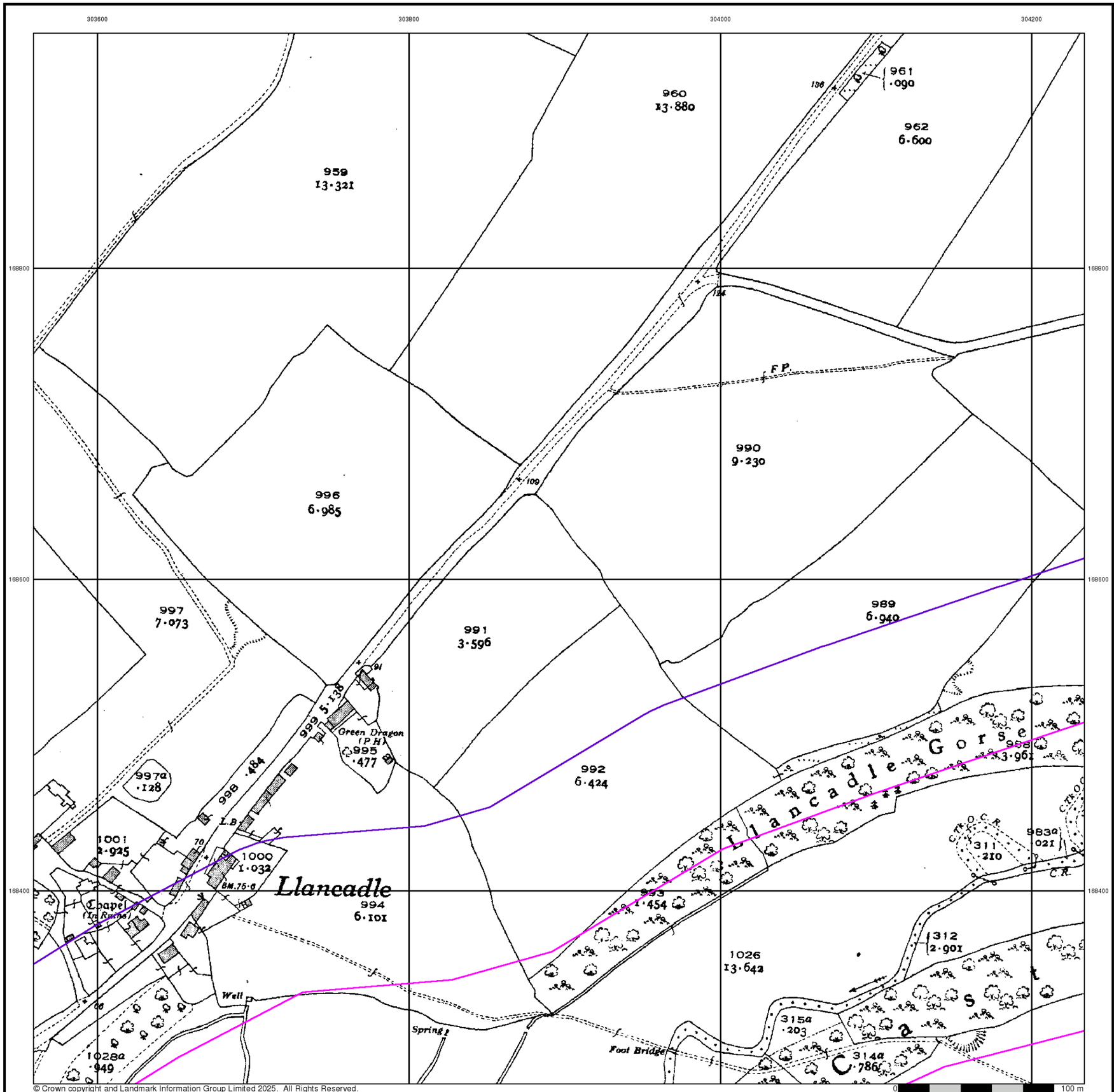

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Glamorganshire

Published 1943

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.

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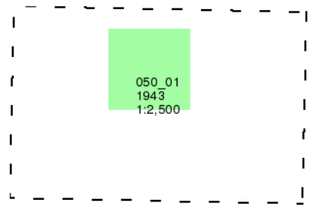
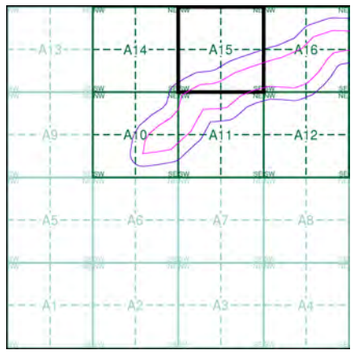


Historical Map - Segment A15



Order Details

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Slice:	A
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Search Buffer (m):	100

Site Details

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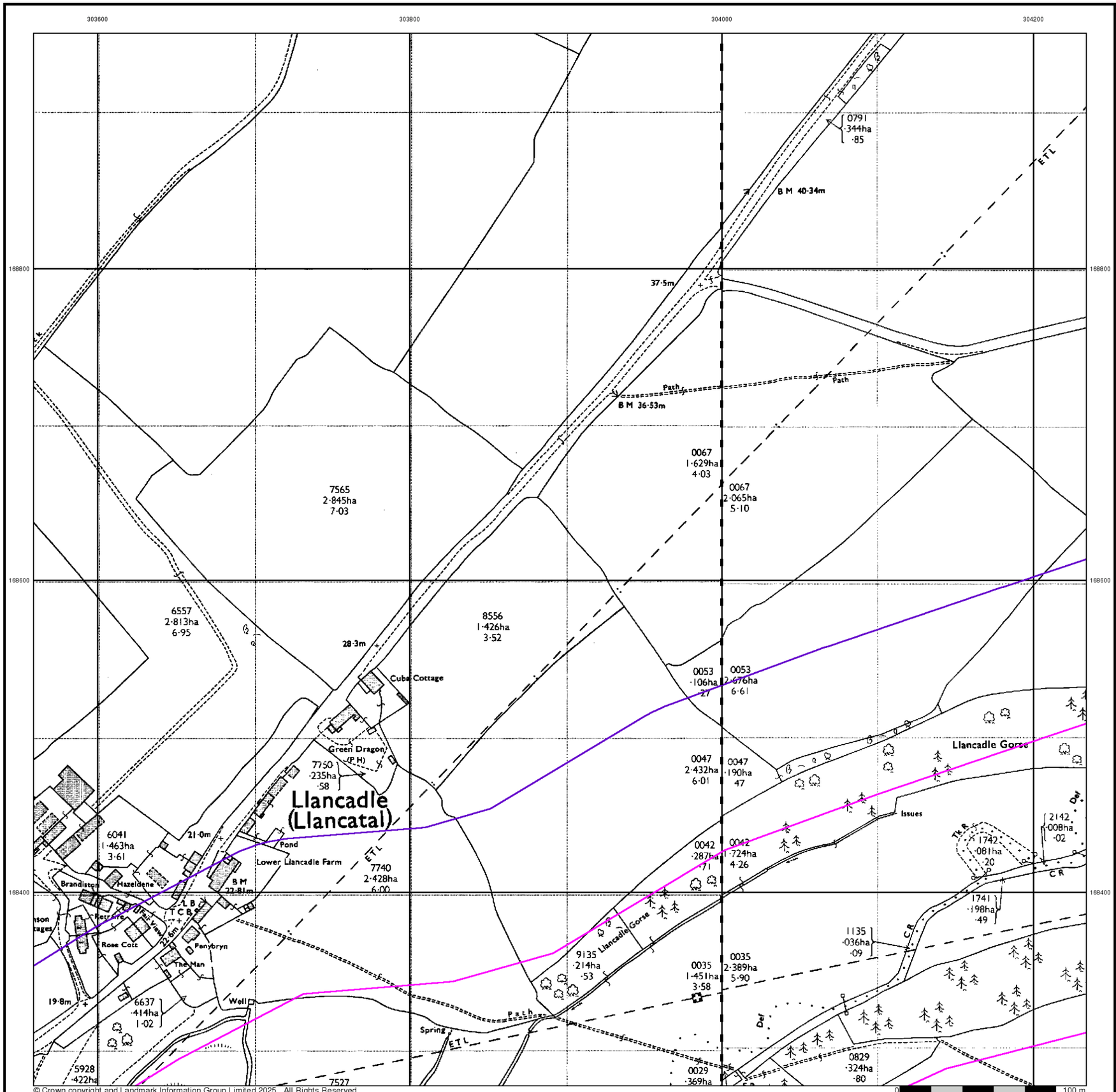

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Ordnance Survey Plan

Published 1972 - 1973

Source map scale - 1:2,500

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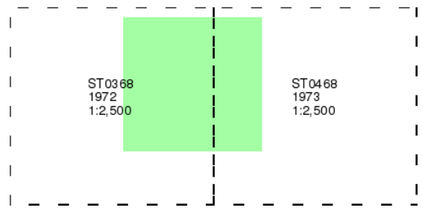
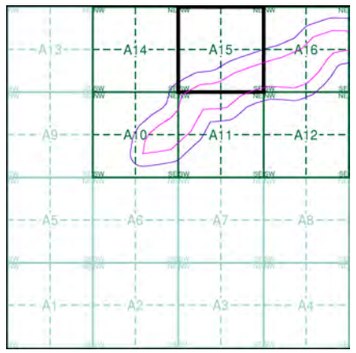


Historical Map - Segment A15



Order Details

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Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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303600 303800 304000 304200

168800 168600 168400

37·5m
Path
B M 36·53m
0067
1·629ha
4·03
El Ps
28·3m
Cuba Cottage
0053
·106ha
27
The Great Dragon (PH)
Andras
Stoneleigh House
GI
The Coppice
Cwmddeg
Llancadle (Llancatal)
21·0m
Lower Llancadle Farm
ETL
0042
·267ha
27
Granllwyn
Hazeldene
Rose Cottage
TCB
LB
Strady Lodge
Penlyarlwyn
The Manse
Well
Spring
0135
·214ha
53
Llancadle Gorse
NC
Sc

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0 100 m

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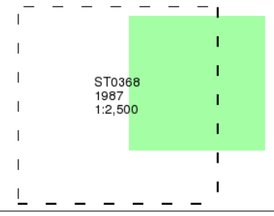
Additional SIMs

Published 1987

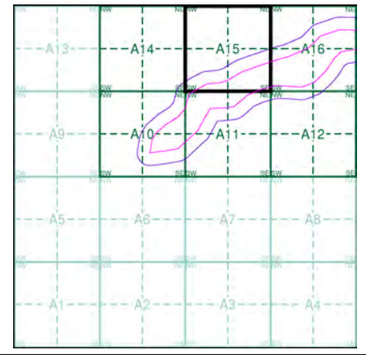
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A15



Order Details

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Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
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Search Buffer (m):	100

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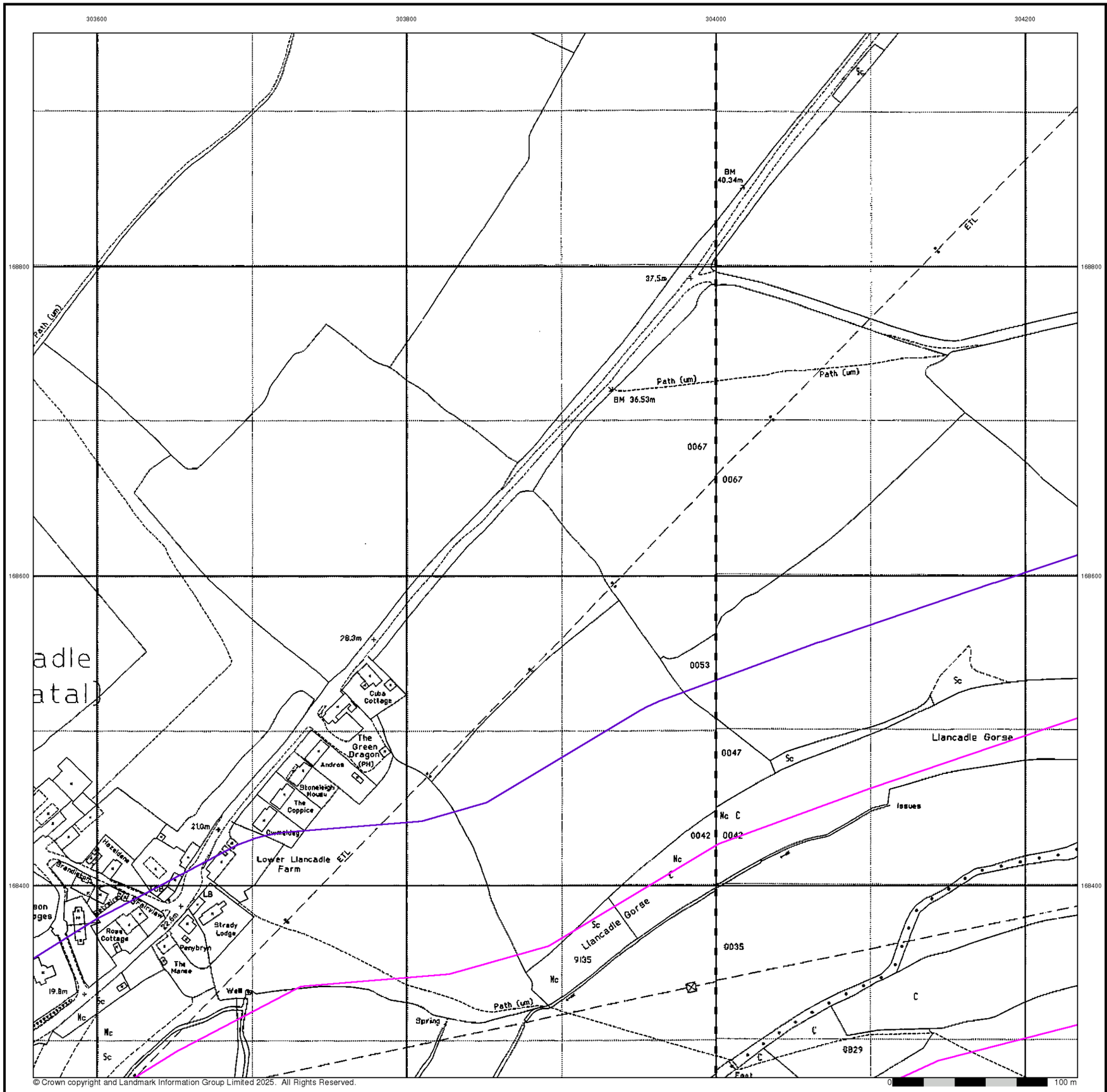

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LANDMARK INFORMATION GROUP®

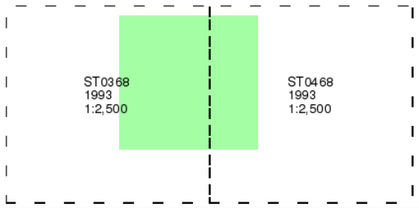
Large-Scale National Grid Data

Published 1993

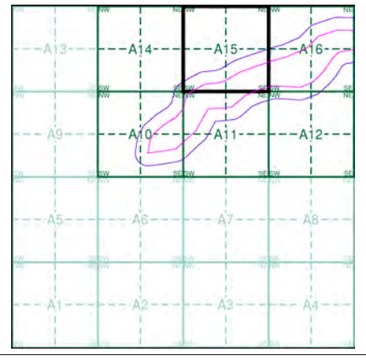
Source map scale - 1:2,500

'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 A15



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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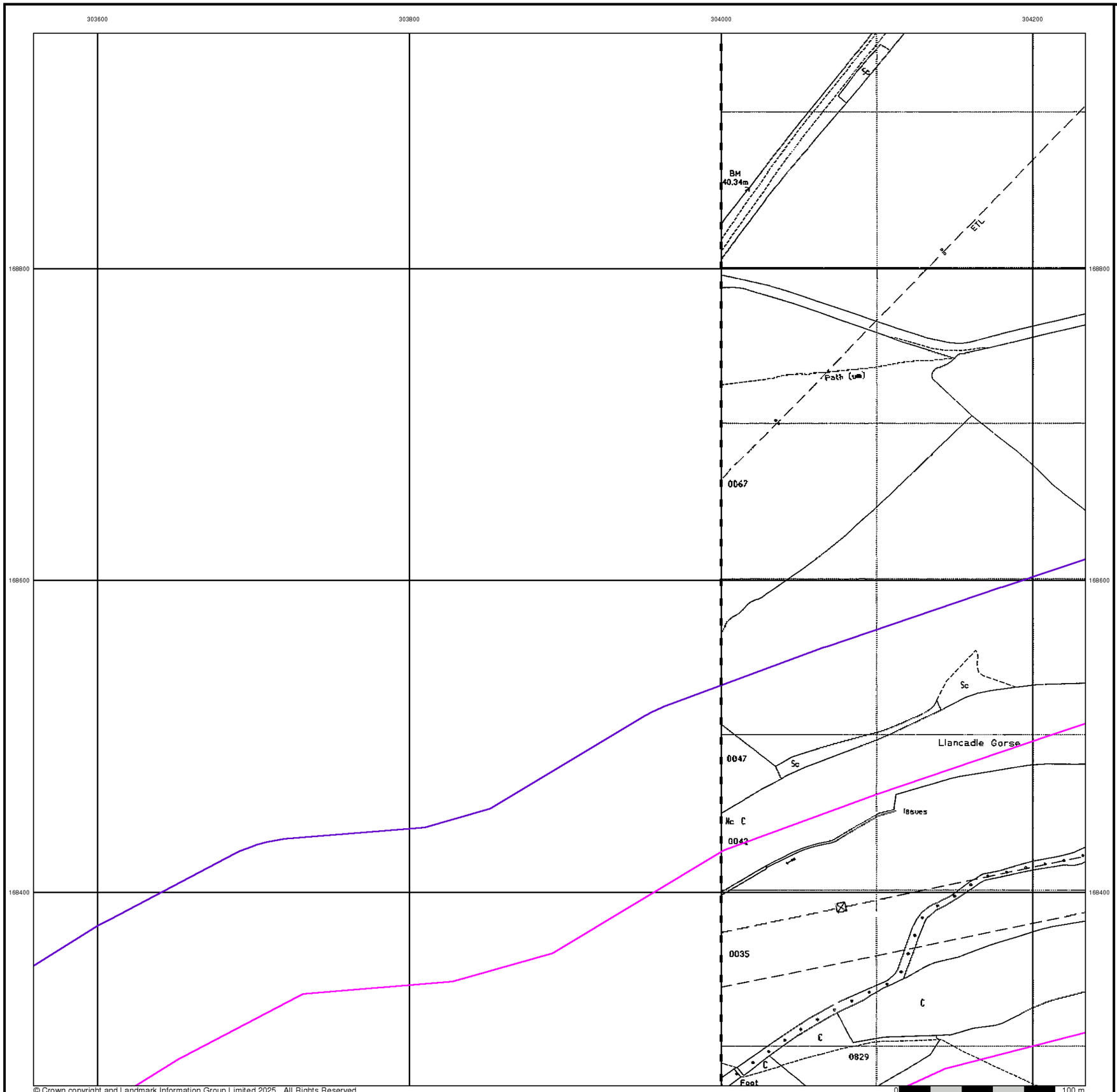

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LANDMARK INFORMATION GROUP®

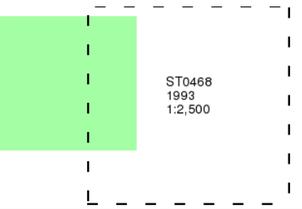
Large-Scale National Grid Data

Published 1993

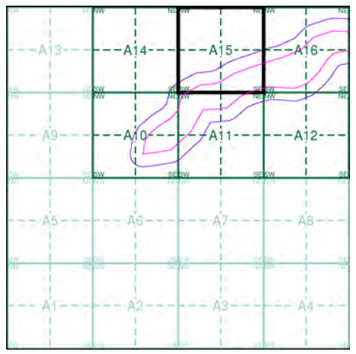
Source map scale - 1:2,500

'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 A15



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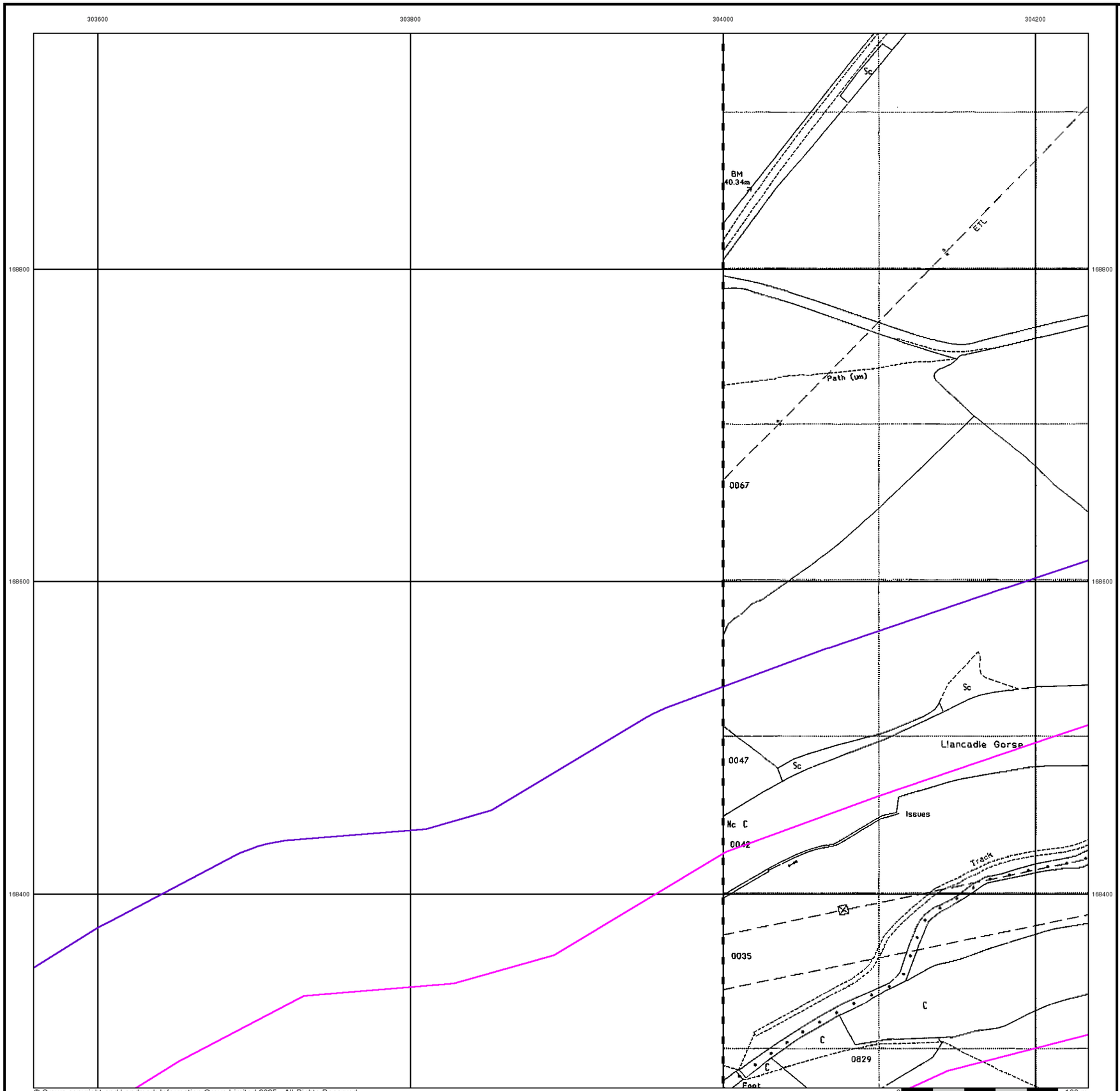

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Large-Scale National Grid Data

Published 1994

Source map scale - 1:2,500

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

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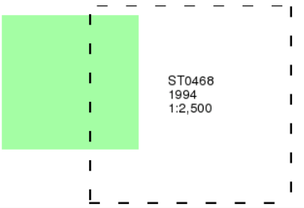
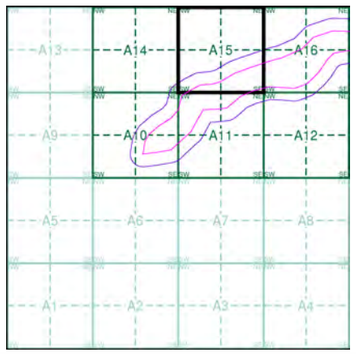


Historical Map - Segment A15



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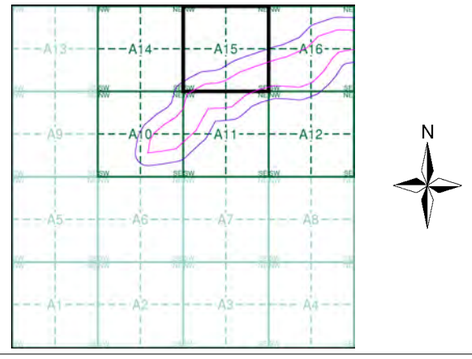
Historical Aerial Photography

Published 2000

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 A15



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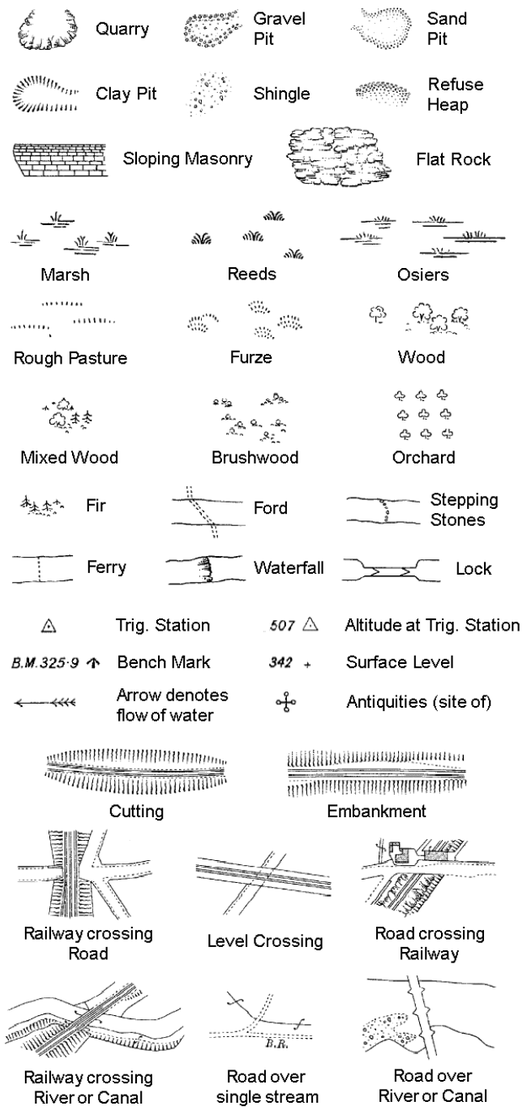
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Historical Mapping Legends

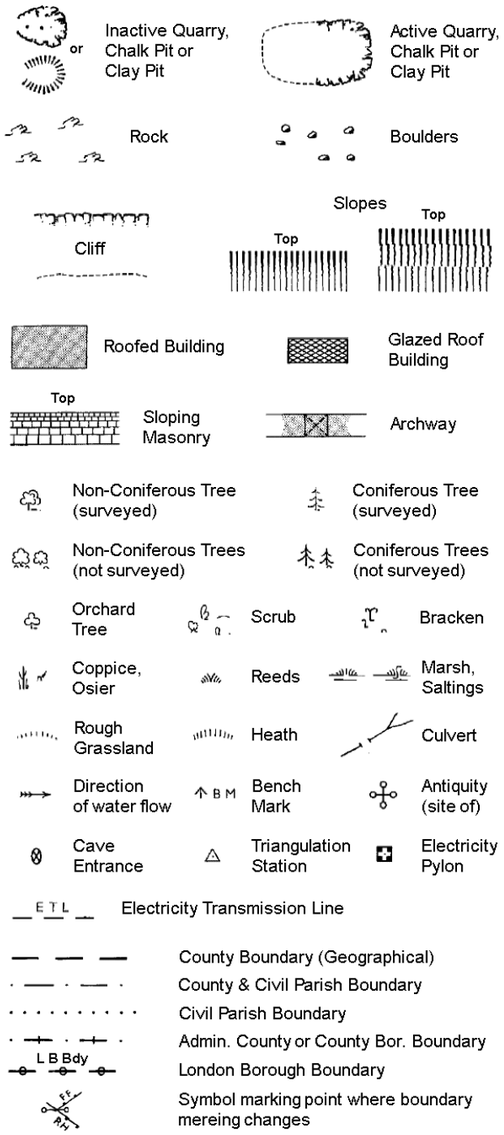
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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	Sl.	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

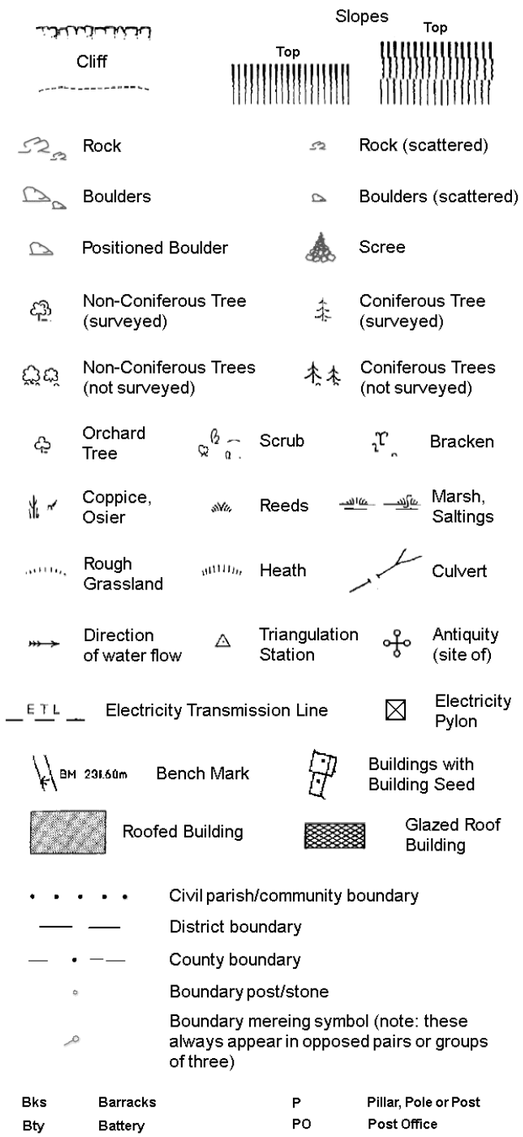
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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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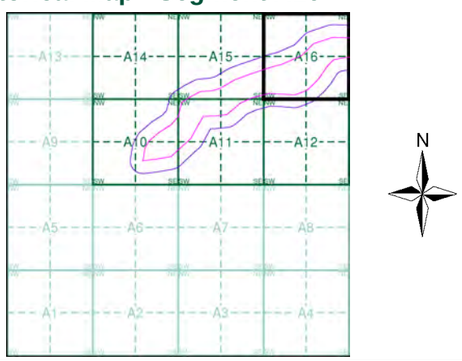
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1879	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1919	4
Glamorganshire	1:2,500	1943	5
Ordnance Survey Plan	1:2,500	1973	6
Large-Scale National Grid Data	1:2,500	1993	7
Large-Scale National Grid Data	1:2,500	1993	8
Large-Scale National Grid Data	1:2,500	1994	9
Historical Aerial Photography	1:2,500	2000	10

Historical Map - Segment A16



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Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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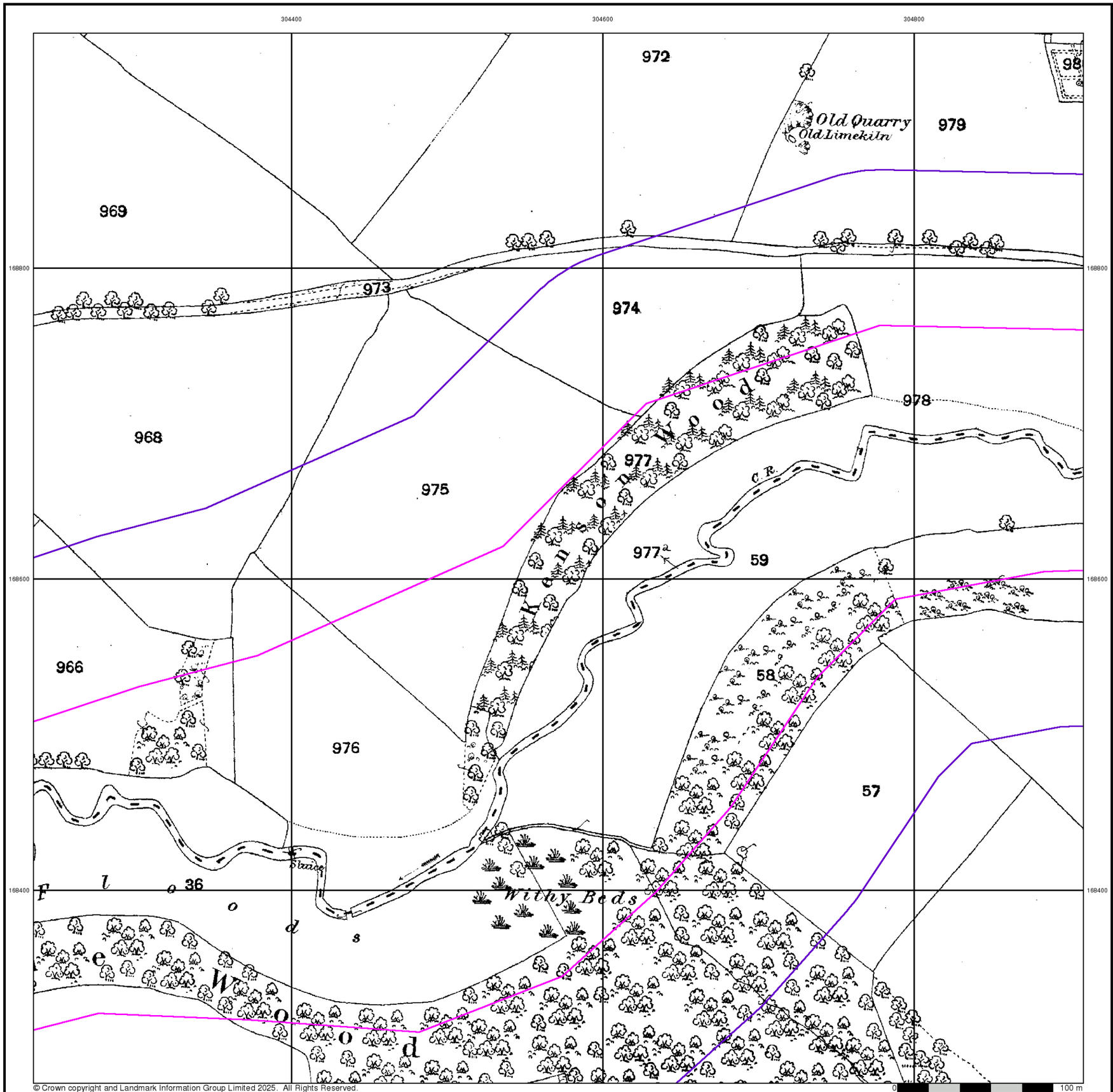

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Glamorganshire

Published 1879

Source map scale - 1:2,500

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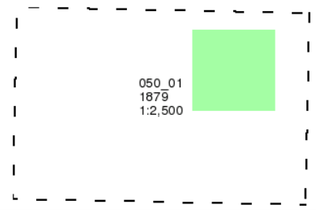
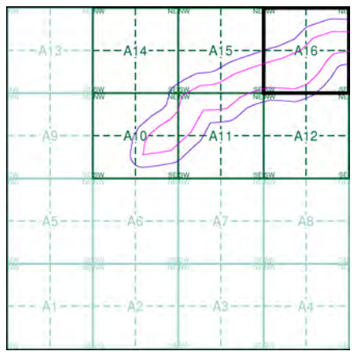
Map Name(s) and Date(s)



Historical Map - Segment A16



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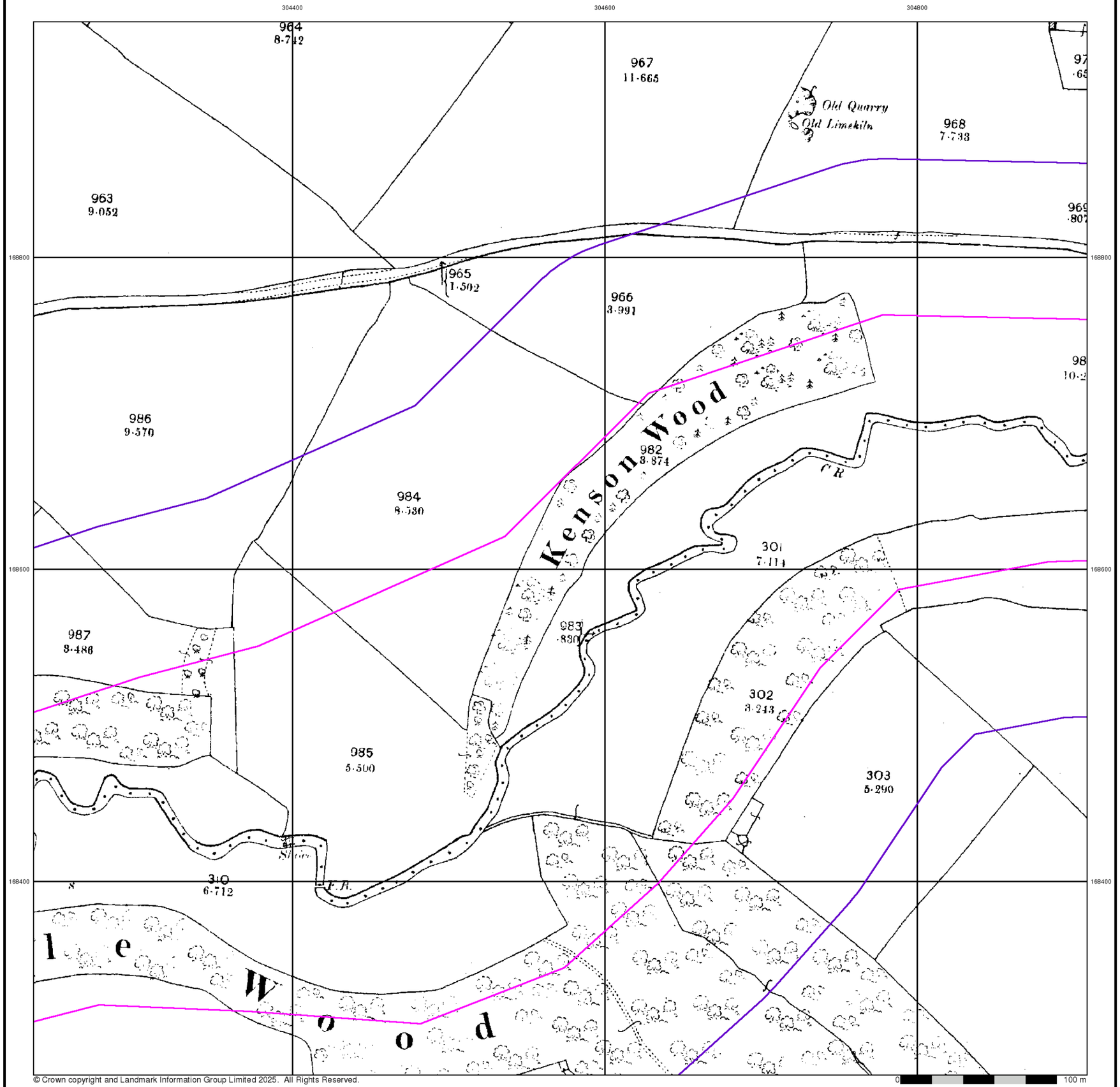
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7·733
963
9·052
965
1·502
966
3·991
986
9·570
984
8·530
982
3·874
Kensons Wood
CR
301
7·114
983
·880
987
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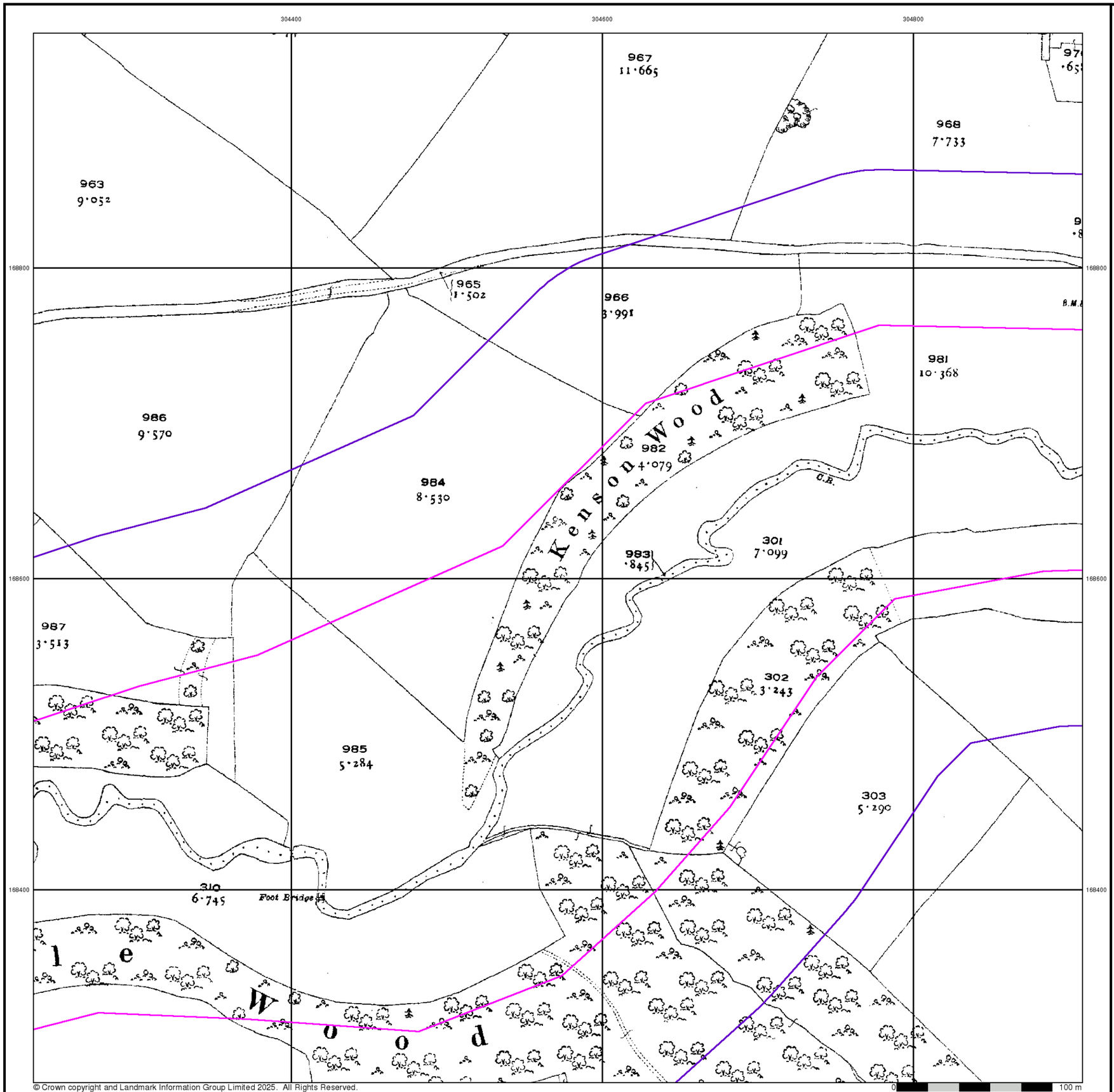
Sluice



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Glamorganshire

Published 1919

Source map scale - 1:2,500

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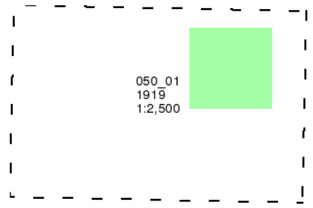
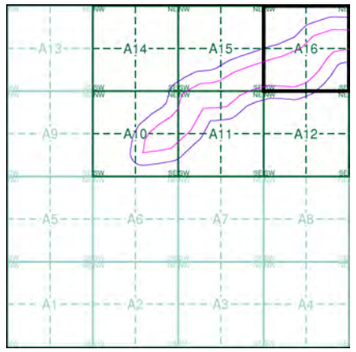
Map Name(s) and Date(s)



Historical Map - Segment A16



Order Details

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Customer Ref:	2025s0023
National Grid Reference:	303620, 167950
Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

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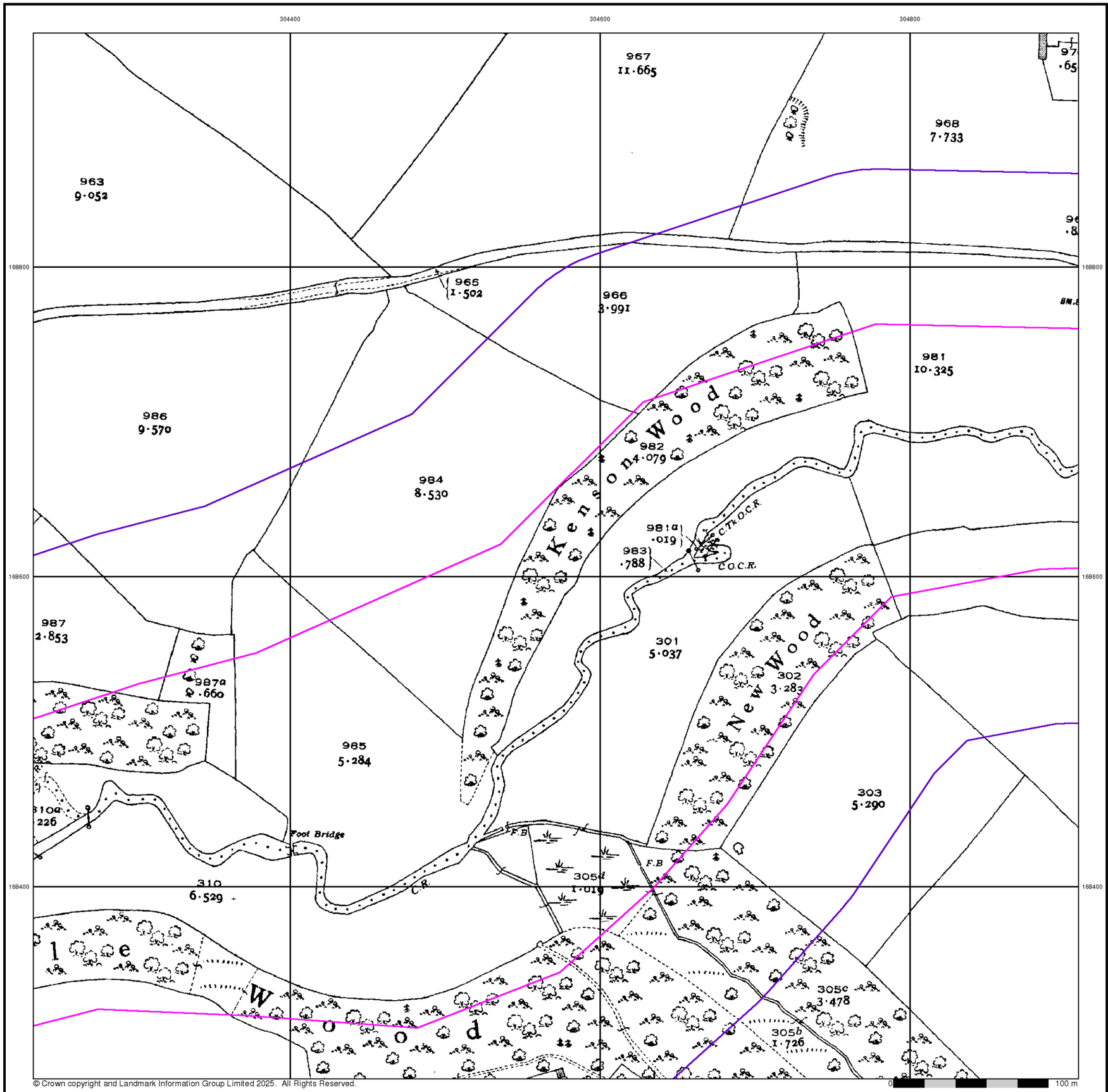

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Glamorganshire

Published 1943

Source map scale - 1:2,500

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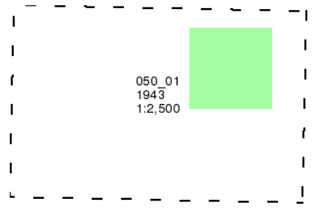
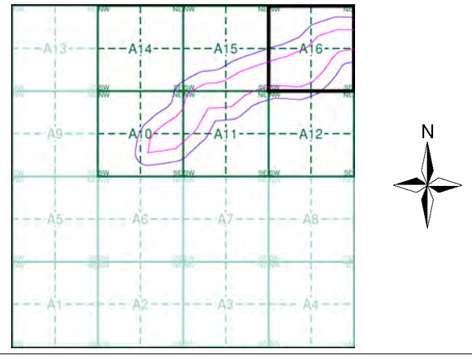


Historical Map - Segment A16



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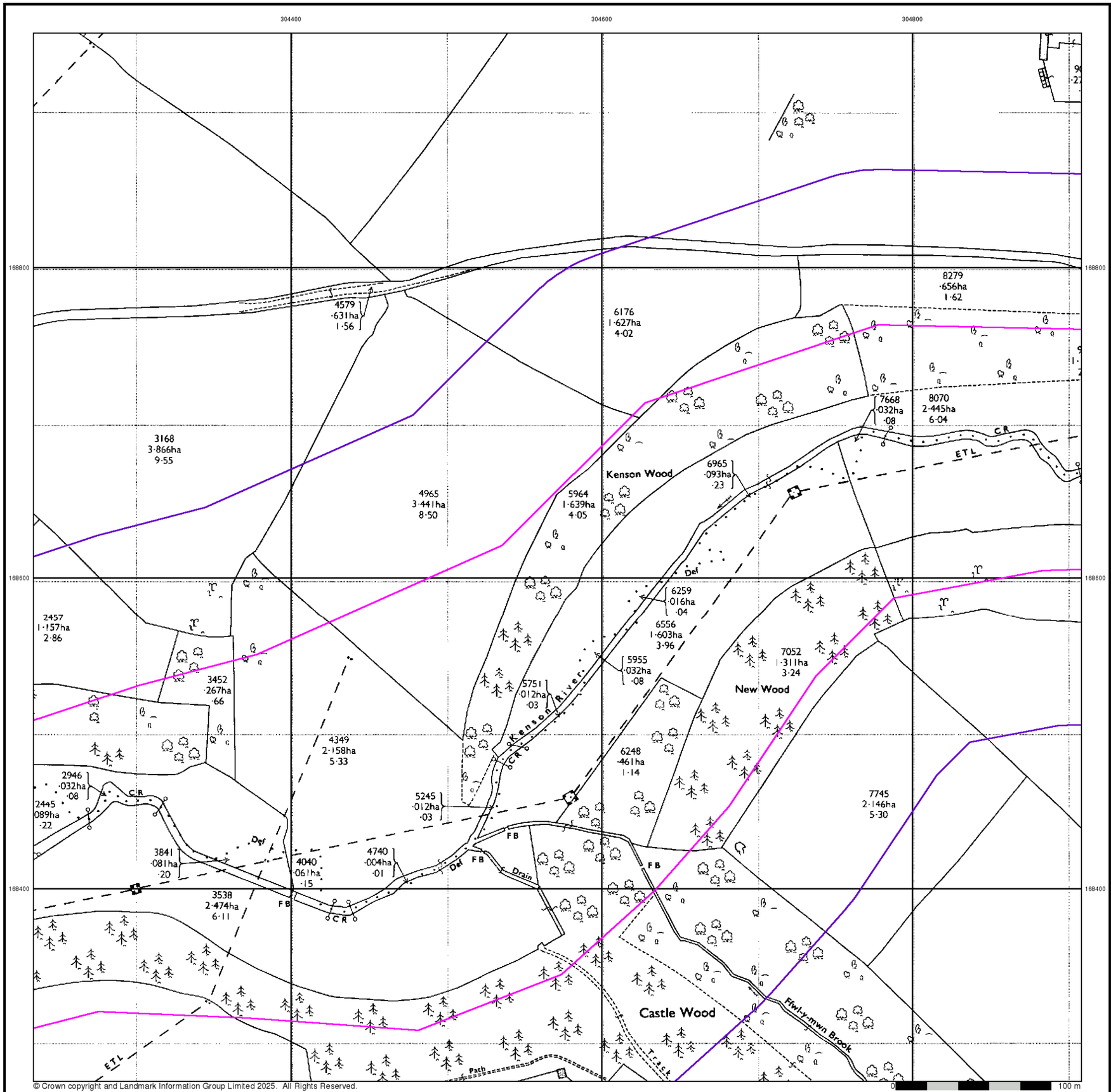

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Ordnance Survey Plan

Published 1973

Source map scale - 1:2,500

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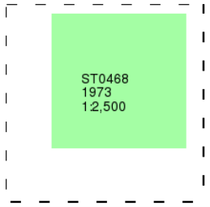
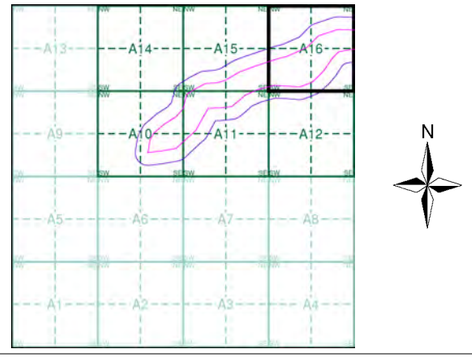
Map Name(s) and Date(s)



Historical Map - Segment A16



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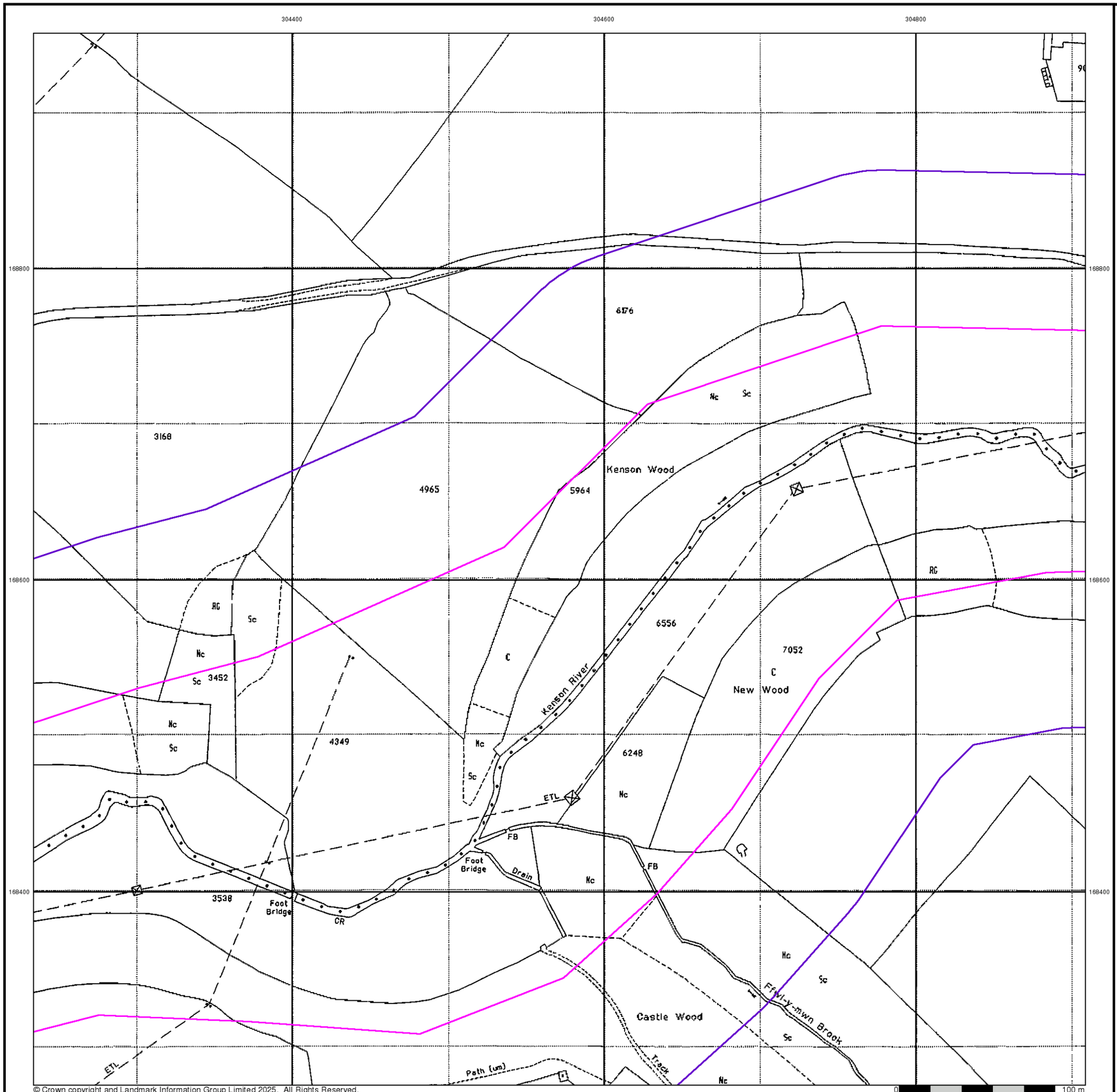

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Large-Scale National Grid Data

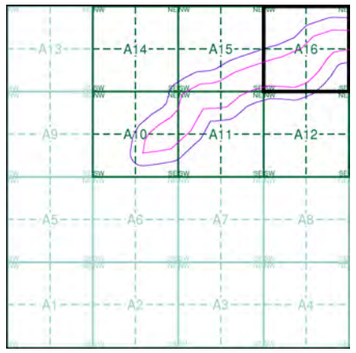
Published 1993

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 A16



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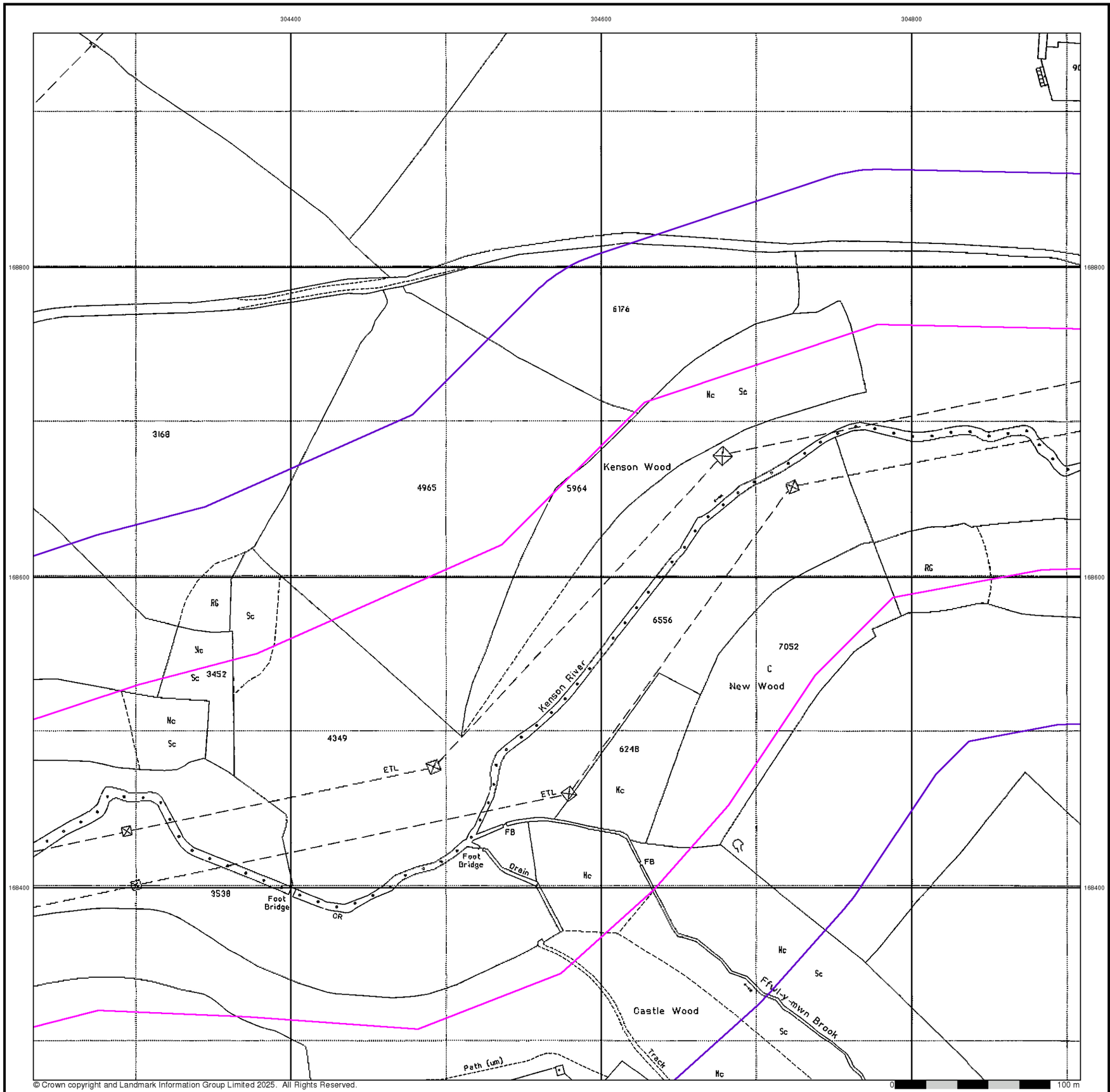

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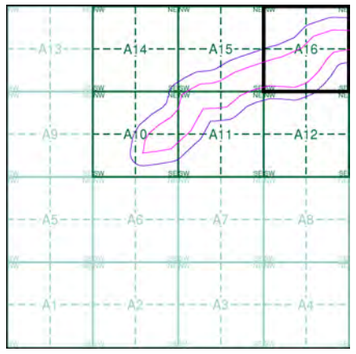

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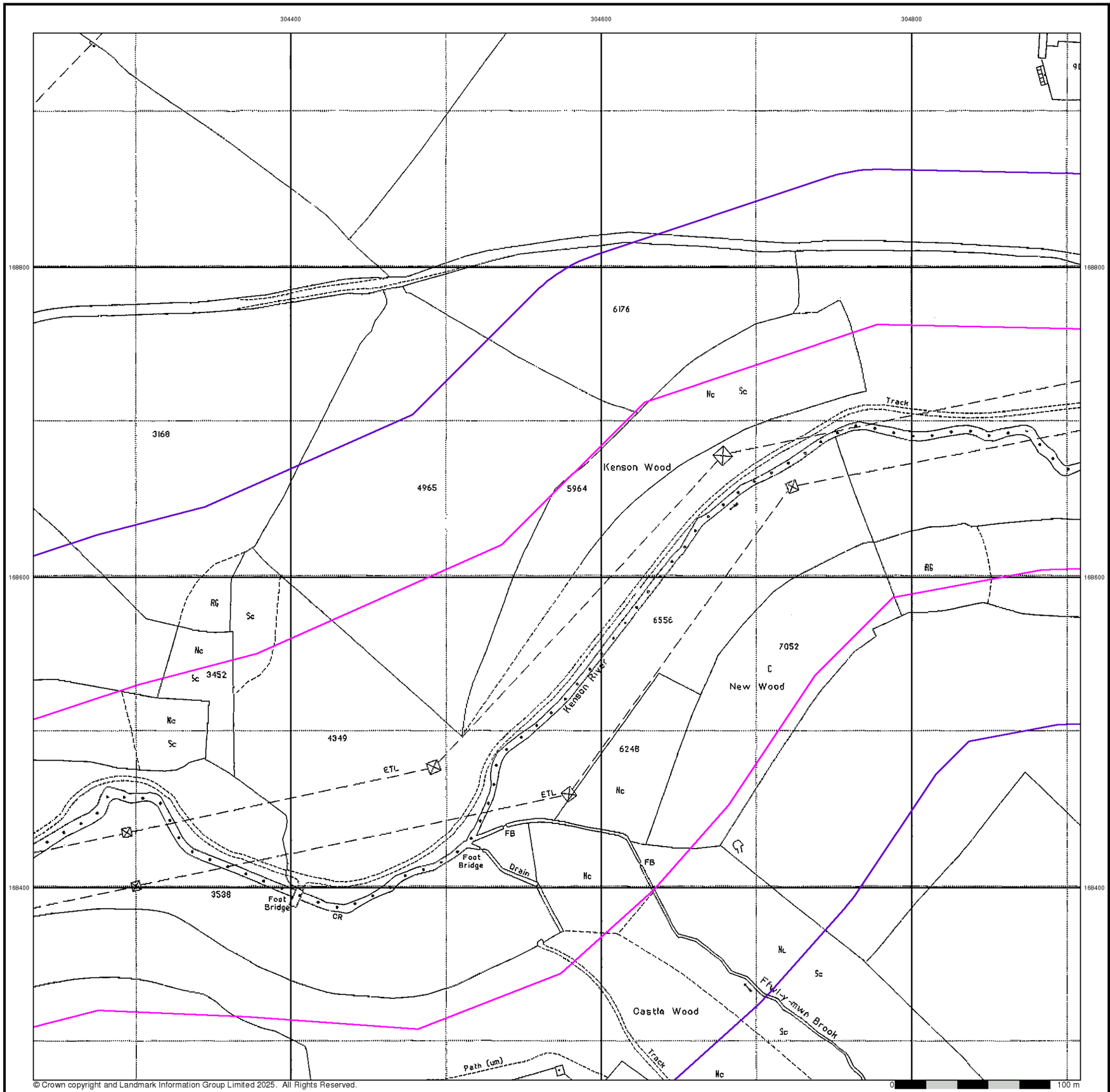

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Large-Scale National Grid Data

Published 1994

Source map scale - 1:2,500

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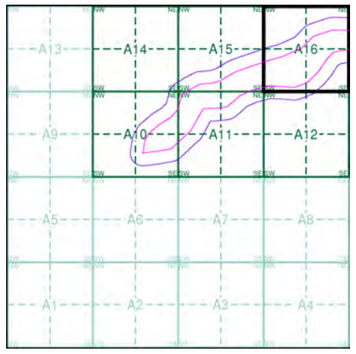

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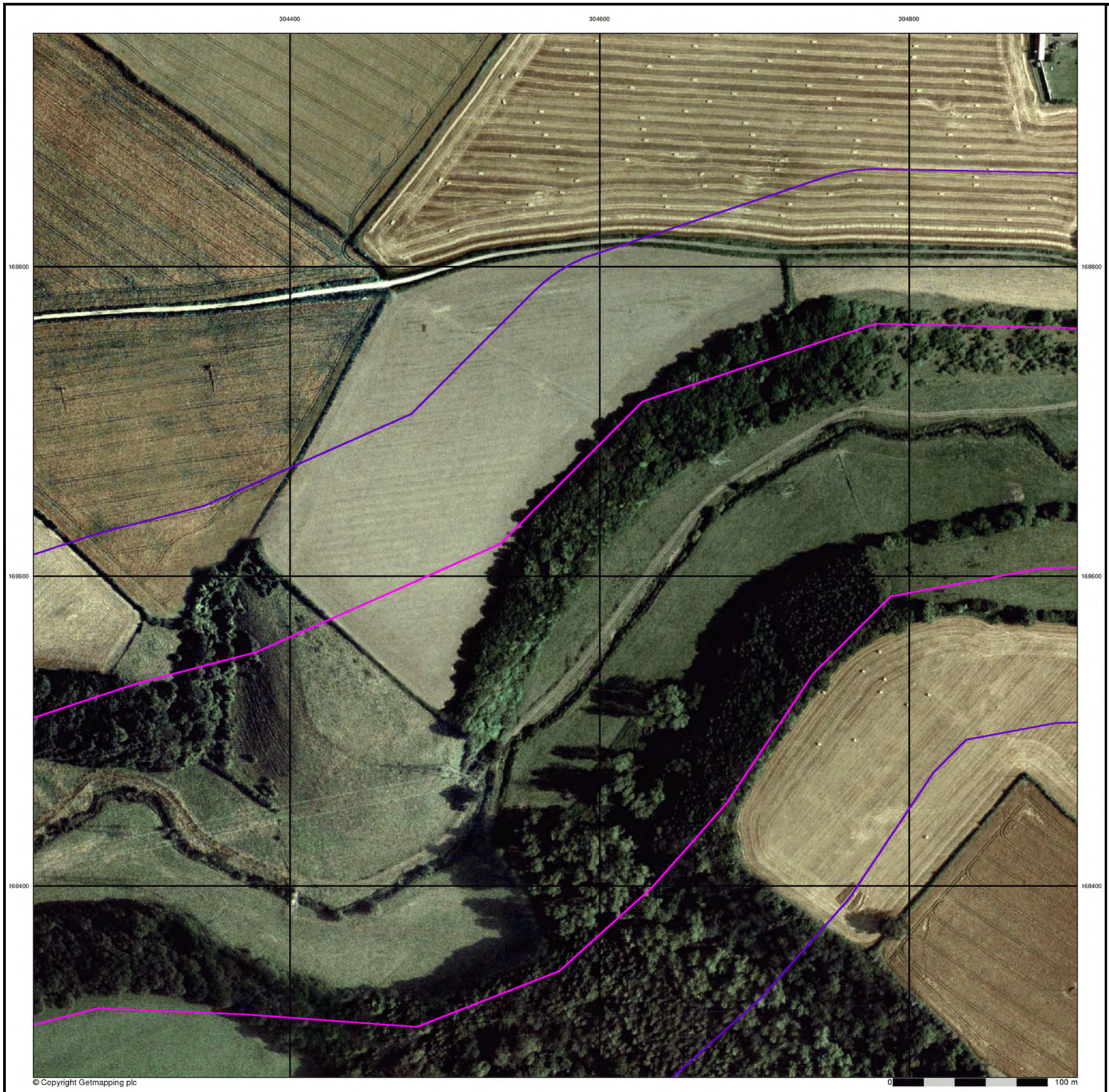

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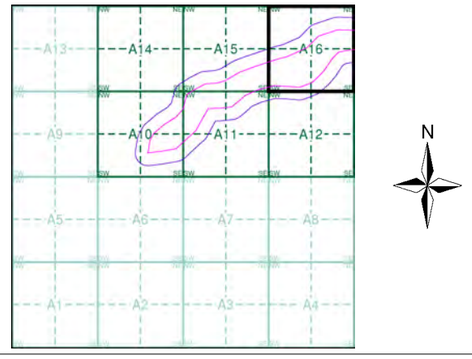
Historical Aerial Photography

Published 2000

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 A16



Order Details

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Customer Ref:	2025s0023
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Slice:	A
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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Datasheet

Order Details:

Order Number:
367701071_1_1

Customer Reference:
2025s0023

National Grid Reference:
305460, 168340

Slice:
B

Site Area (Ha):
40.66

Search Buffer (m):
1000

Site Details:

Site at
Llancadle/Llancatal
The Vale of Glamorgan

Client Details:

Miss A Atkins
JBA Consulting
Salt Mill
Saltaire
West Yorkshire
BD18 3LF

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Waste	16
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Introduction

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

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Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England. The probability result is only valid for properties above ground. All basement and cellar areas are considered to be at additional risk from high radon levels. If an underground room such as a cellar or basement makes up part of the living or working accommodation, the property should be tested regardless of Radon Affected Area status.

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Report Version v53.0

Contents

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Summary

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Planning Hazardous Substance Enforcements					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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BGS Recorded Mineral Sites	pg 18				3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			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 19	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 19	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 19	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 20	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 21	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 21	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 21	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 22				1
Fuel Station Entries					
Points of Interest - Commercial Services	pg 22				1
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 22				1
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental					
Underground Electrical Cables					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 23	8	7	4	5
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	(W)	0	1	304250 168350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NW (NW)	0	1	305200 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13SW (W)	0	1	305000 168340
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B13SW (NW)	0	1	305000 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B13SW (NW)	0	1	305050 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B13SW (NW)	0	1	305100 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	0	1	304800 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NW (NW)	0	1	304950 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B13NW (NW)	0	1	305000 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	304750 168550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	304700 168500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NW (NW)	0	1	305100 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	304250 168450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	304350 168450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	304550 168450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NW (NW)	0	1	305000 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B13NW (NW)	0	1	305000 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B13NW (NW)	0	1	305150 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13SE (SW)	1	1	305463 168340
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NW (NW)	2	1	305150 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	14	1	304650 168340
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NE (NW)	19	1	305250 168700

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	(W)	48	1	304700 168340
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	83	1	304750 168340
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13SE (NW)	106	1	305300 168550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NE (NW)	115	1	305250 168850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NE (N)	116	1	305300 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(W)	118	1	304800 168300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NE (N)	130	1	305350 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NW (NW)	144	1	305050 168900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B13NE (N)	157	1	305350 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B13NE (N)	175	1	305400 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NE (N)	209	1	305250 168950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B13NE (N)	222	1	305450 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	226	1	304850 168200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	241	1	305000 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	249	1	305100 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	252	1	305150 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(N)	257	1	305250 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B13NE (N)	263	1	305463 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B13NE (N)	271	1	305463 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(N)	272	1	305300 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	306	1	305250 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(N)	319	1	305350 169050

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	(N)	352	1	305150 169100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	402	1	305200 169150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	405	1	305250 169150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(N)	407	1	305450 169100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(N)	415	1	305350 169150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B14NW (N)	418	1	305600 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	443	1	305050 169200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(N)	455	1	305250 169200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B14NW (NE)	463	1	305650 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(N)	499	1	305500 169100
1	**Discharge Consents** Operator: Mrs B.M Hill Property Type: Domestic Property (Single) Location: Kenson Cottage Penmark Nr Barry Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Ae2027001 Permit Version: 1 Effective Date: 26th June 1964 Issued Date: 26th June 1964 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: River Thaw **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	B13NW (NW)	27	2	305213 168692
2	**Discharge Consents** Operator: Mr J Mcmanus Property Type: Domestic Property (Single) Location: New Dwelling Adj To Fieldings, Penmark, Barry, Vale Of Glamorgan, Cf62 3bn Authority: Natural Resources Wales Catchment Area: River Thaw Reference: An028960101 Permit Version: 1 Effective Date: 10th May 1999 Issued Date: 10th May 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Sefton Brook **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	B13NE (N)	252	2	305400 168820

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Enterprise Inns Plc Property Type: Public Houses & Bars Location: The Six Bells, Penmark, Rhoose, Cardiff, Uk, Cf62 3bp Authority: Natural Resources Wales Catchment Area: River Thaw Reference: Eprap3426gt Permit Version: 1 Effective Date: 23rd July 2010 Issued Date: 23rd July 2010 Revocation Date: 16th September 2013 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Penmark River **Status: Revoked under EPR 2010** Positional Accuracy: Located by supplier to within 10m	B14SW (NE)	595	2	305776 168598
4	**Discharge Consents** Operator: The Six Bells Inn Ltd Property Type: Public Houses & Bars Location: Septic Tank @ The Six Bells Inn, Penmark, Vale Of Glamorgan, Cf62 3bp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprjb3897td Permit Version: 1 Effective Date: 7th March 2014 Issued Date: 7th March 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Groundwater **Status: New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	B14NW (NE)	601	2	305788 168688
4	**Discharge Consents** Operator: The Six Bells Inn Ltd Property Type: Public Houses & Bars Location: Septic Tank @ The Six Bells Inn, Penmark, Vale Of Glamorgan, Cf62 3bp Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Jb3897td Permit Version: Not Supplied Effective Date: 7th March 2014 Issued Date: 7th March 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Groundwater Via Infiltration System **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B14NW (NE)	601	2	305788 168688
5	**Discharge Consents** Operator: British Airways Plc Property Type: Not Supplied Location: 747 Maintainance Hangar Devmt Rhoos, Rhoose Airport Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0225101 Permit Version: Not Supplied Effective Date: 23rd January 1996 Issued Date: 22nd January 1996 Revocation Date: Not Supplied Discharge Type: Trade And Other Matter Discharge Discharge Environment: Freshwater Stream/River Receiving Water: Sefton Brook **Status: Effective** Positional Accuracy: Located by supplier to within 100m	B14SW (E)	768	2	305900 168400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: British Airways Plc Property Type: Support Services - Air Transport Location: 747 Maintainance Hangar Devmt Rhoos, Rhoose Airport Authority: Natural Resources Wales Catchment Area: River Thaw Reference: AN0225101 Permit Version: 1 Effective Date: 11th June 1991 Issued Date: 11th June 1991 Revocation Date: 22nd January 1996 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Sefton Brook **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	B14SW (E)	768	2	305900 168400
6	**Discharge Consents** Operator: Dr & Mr Stevens Property Type: Domestic Property (Single) Location: Rock House Fonmon Barry, Fonmon, Vale Of Glamorgan, Cf62 3bj Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0402401 Permit Version: 1 Effective Date: 24th August 2006 Issued Date: 24th August 2006 Revocation Date: 24th August 2018 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Groundwater Via Soakaway **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	B5NW (SW)	884	2	305001 167572
	Nearest Surface Water Feature	B13NW (NW)	0	-	304940 168665
7	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: 1/2 Mle Down Stream, Of British Airways, Maintenance Depot Authority: Environment Agency, Welsh Region Pollutant: Foam/Soap Suds Note: Not Supplied Incident Date: 1st February 1997 Incident Reference: 31772 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	B14SW (NE)	640	3	305800 168500
7	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: British Airways Maintenance, CARDIFF Authority: Environment Agency, Welsh Region Pollutant: Foam/Soap Suds Note: Not Supplied Incident Date: 1st February 1997 Incident Reference: 31772 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	B14SW (NE)	641	3	305800 168495
7	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Penmark, RHOOSE Authority: Environment Agency, Welsh Region Pollutant: Foam/Soap Suds Note: Sefton Bk Incident Date: 19th September 1997 Incident Reference: 33822 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	B14SW (NE)	645	3	305805 168500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Runs Through Sefton Bungalow Authority: Environment Agency, Welsh Region Pollutant: Foam/Soap Suds Note: Not Supplied Incident Date: 1st February 1997 Incident Reference: 31772 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	B14SW (NE)	646	3	305805 168495
8	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Below British Airways Maintainance, Cardiff Buildings, RHOOSE Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Poor Management Control Incident Date: 17th June 1996 Incident Reference: 29147 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	B14SW (E)	736	3	305900 168500
9	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: PENMARK Authority: Environment Agency, Welsh Region Pollutant: Foam/Soap Suds Note: Sefton Bk; Run-Off Incident Date: 15th August 1997 Incident Reference: 33708 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Mechanical/Electrical Plant Failure Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	B14SE (E)	972	3	306100 168350
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B13NW (NW)	0	2	304931 168713
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B13SW (NW)	0	2	305000 168606

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial 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: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B13NW (NW)	0	2	305166 168671
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B13SW (W)	0	2	305000 168340
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B13NW (NW)	0	2	305000 168728
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B13NW (NW)	0	2	305125 168743

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B13SE (SW)	0	2	305463 168340
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B13SE (SW)	0	2	305463 168340
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B13SW (W)	0	2	305000 168340
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B13SW (NW)	0	2	305000 168606
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	B13NW (NW)	0	2	304931 168713
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B13NW (NW)	0	2	305166 168671
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	B13NW (NW)	0	2	305147 168735
	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	B13NW (NW)	0	2	305185 168670
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	B13NW (NW)	0	2	305012 168697
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	B13NW (NW)	0	2	305145 168735
	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	B13NW (NW)	0	2	305185 168680
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 551.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	0	4	304930 168676

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	0	4	304940 168665
12	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 205.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	0	4	305128 168729
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	0	4	304942 168663
14	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 252.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	0	4	305184 168681
15	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	0	4	305138 168734
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	B13NW (NW)	0	4	305137 168720
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	B13NW (NW)	0	4	305140 168718
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 2	B13NW (NW)	0	4	305184 168681
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	3	4	305194 168678

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	11	4	305156 168753
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	11	4	305176 168725
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	13	4	305181 168718
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	13	4	305201 168720
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kenson River Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	45	4	305164 168789
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 161.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	45	4	305321 168790
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 439.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Llancarfan Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	99	4	305153 168847
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 774.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Waycock Catchment Name: Thaw Cadoxton Primacy: 1	B13NW (NW)	99	4	305153 168847
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	170	4	305324 168790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	172	4	305363 168787
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	203	4	305377 168786
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	215	4	305387 168784
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	223	4	305389 168784
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	224	4	305402 168782
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	235	4	305405 168782
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	238	4	305415 168780
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	246	4	305416 168780
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	248	4	305424 168779

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	255	4	305431 168778
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	261	4	305441 168777
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	270	4	305506 168764
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14NW (N)	328	4	305587 168741
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B13NE (N)	357	4	305543 168712
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14NW (N)	407	4	305592 168726
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14NW (N)	422	4	305607 168733
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14NW (N)	422	4	305607 168735
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14NW (NE)	426	4	305661 168687

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 144.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14NW (NE)	471	4	305690 168637
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14NW (NE)	471	4	305658 168682
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14SW (NE)	586	4	305766 168593
50	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 7.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14SW (NE)	586	4	305768 168585
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 218.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14SW (E)	591	4	305818 168473
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B9SW (SW)	629	4	304914 167773
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 223.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B9SW (SW)	666	4	305137 167785
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14SW (E)	720	4	305853 168412
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14SW (E)	736	4	305861 168389

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B9SW (SW)	794	4	305159 167774
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B14SW (E)	802	4	305907 168331
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 386.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Waycock Catchment Name: Thaw Cadoxton Primacy: 1	B14NE (NE)	815	4	306018 168883
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 377.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	B10NE (E)	856	4	305937 168273
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Kenson - conf with Waycock to conf with Thaw WaterBody ID: GB110058021000 Operational Catchment: Thaw and Cadoxton Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	B13SE (SW)	0	2	305463 168340
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Llancarfan WaterBody ID: GB110058026410 Operational Catchment: Thaw and Cadoxton Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	B13NW (NW)	47	2	305050 168800
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Waycock - headwaters to confluence with Kenson WaterBody ID: GB110058026400 Operational Catchment: Thaw and Cadoxton Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	B13NE (N)	129	2	305510 168900
	Water Framework Directive - Groundwater Waterbody Name: Thaw & Cadoxtan Jurassic Lias Waterbody ID: GB41002G201400 URL Address: Not Available Overall Rating: Good Chemical Rating: Good Quantitative Measure: Good Year: 2023	B13SE (SW)	0	2	305463 168340
60	**Water Framework Directive - Surface Waters** Class Code: River Waterbody Name: Kenson - conf with Waycock to conf with Thaw Waterbody ID: GB110058021000 URL Address: Not Supplied Overall Rating: Moderate Chemical Rating: High Classification Year: 2023	B13NW (NW)	0	2	305138 168734

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	**Water Framework Directive - Surface Waters** Class Code: River Waterbody Name: Waycock - headwaters to confluence with Kenson Waterbody ID: GB110058026400 URL Address: Not Supplied Overall Rating: Moderate Chemical Rating: High Classification Year: 2023	B13NW (NW)	100	2	305152 168848
62	**Water Framework Directive - Surface Waters** Class Code: River Waterbody Name: Llancarfan Waterbody ID: GB110058026410 URL Address: Not Supplied Overall Rating: Poor Chemical Rating: High Classification Year: 2023	B13NW (NW)	100	2	305152 168848

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Penmark Name: Sefton Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14506 First Input Date: 31st December 1970 Last Input Date: 31st December 1975 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6950/0053 BGS Ref: Not Supplied Other Ref: Not Supplied	B14SW (E)	770	2	305890 168370
	Local Authority Landfill Coverage Name: Vale Of Glamorgan County Borough Council - Has supplied landfill data		0	5	305463 168340
64	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	B9SW (SW)	747	-	305100 167815
65	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	B9NE (S)	756	-	305522 168008
66	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	B9SE (S)	795	-	305413 167920

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lias Group	B13SE (SW)	0	1	305463 168340
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	B13NW (NW)	0	1	304931 168713
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	B13SE (SW)	0	1	305463 168340
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	B13SW (W)	0	1	305000 168340
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	B13NW (NW)	0	1	305000 168728
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	(N)	300	1	305709 168971
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	(N)	332	1	305242 169067

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	(NE)	613	1	305781 168998
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	B14SE (E)	813	1	306000 168340
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	B14NE (NE)	841	1	306001 168900
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	B14NE (NE)	893	1	306088 168904
67	**BGS Recorded Mineral Sites** Site Name: Fonmon Castle Location: Rhoose, Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161247 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	B9SW (SW)	759	1	305119 167815
68	**BGS Recorded Mineral Sites** Site Name: Sufton Location: East Aberthaw, Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161246 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	B9NE (S)	768	1	305539 168003

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	**BGS Recorded Mineral Sites** Site Name: Sufton Well Location: East Aberthaw, Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161257 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	B14SW (E)	790	1	305921 168393
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305000 168728
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305125 168743
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13SW (W)	0	1	305000 168340
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13SE (SW)	0	1	305463 168340
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13SW (NW)	0	1	305000 168606
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305166 168671
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B13SW (NW)	0	1	305000 168606
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305166 168671
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305000 168728
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13SW (W)	0	1	305000 168340
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13SE (SW)	0	1	305463 168340
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305125 168743
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13SE (SW)	0	1	305463 168340
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13SW (W)	0	1	305000 168340

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305000 168728
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305125 168743
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305181 168696
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13SE (SW)	0	1	305463 168340
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13SW (W)	0	1	305000 168340
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305000 168639
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305167 168672
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	304919 168716
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305000 168720
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305085 168730
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B13SW (NW)	0	1	305000 168606
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305166 168671
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	23	1	305136 168771
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	96	1	305131 168844
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B13NE (N)	131	1	305375 168799
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	163	1	305209 168898
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13NE (N)	177	1	305355 168784
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305125 168743
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305000 168728
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13SW (W)	0	1	305000 168340
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13SE (SW)	0	1	305463 168340

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B13SW (NW)	0	1	305000 168606
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305166 168671
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	304931 168713
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13SW (NW)	0	1	305000 168606
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305166 168671
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13SW (W)	0	1	305000 168340
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13SE (SW)	0	1	305463 168340
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305125 168743
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305000 168728
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	1	305100 168750
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B13SW (W)	0	1	305000 168340
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B14SW (NE)	0	1	305675 168600
	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	B13NW (NW)	0	1	305100 168750
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B13SW (W)	0	1	305000 168340
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B14SW (NE)	0	1	305675 168600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	**Contemporary Trade Directory Entries** Name: Dragon Cleaning Location: 1, Croft John, Penmark, Barry, South Glamorgan, CF62 3BQ Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B14NW (NE)	561	-	305737 168797
71	**Points of Interest - Commercial Services** Name: Anl Diagnostics Location: Bryncethin, Penmark, Barry, CF62 3BP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	B14NW (NE)	527	6	305693 168833
72	**Points of Interest - Manufacturing and Production** Name: Workings Location: CF62 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	B14SW (E)	799	6	305917 168360

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	**Ancient Woodland** Name: Not Supplied Reference: 41870 Area(m²): 5038.38 Type: Plantation on Ancient Woodland	(W)	0	2	304793 168574
74	**Ancient Woodland** Name: Not Supplied Reference: 10040 Area(m²): 1401.58 Type: Restored Ancient Woodland Site	(W)	0	2	304576 168592
75	**Ancient Woodland** Name: Not Supplied Reference: 11317 Area(m²): 14696.9 Type: Restored Ancient Woodland Site	(NW)	0	2	304771 168719
76	**Ancient Woodland** Name: Not Supplied Reference: 18043 Area(m²): 1383.35 Type: Ancient and Semi-Natural Woodland	(W)	0	2	304573 168284
77	**Ancient Woodland** Name: Not Supplied Reference: 39582 Area(m²): 22103.56 Type: Plantation on Ancient Woodland	(W)	0	2	304786 168198
78	**Ancient Woodland** Name: Not Supplied Reference: 7920 Area(m²): 59415.18 Type: Ancient and Semi-Natural Woodland	(W)	0	2	304582 168318
79	**Ancient Woodland** Name: Not Supplied Reference: 7920 Area(m²): 40561.39 Type: Ancient and Semi-Natural Woodland	(SW)	0	2	304891 168006
80	**Ancient Woodland** Name: Not Supplied Reference: 12219 Area(m²): 8055.45 Type: Ancient and Semi-Natural Woodland	(W)	0	2	304726 168504
81	**Ancient Woodland** Name: Not Supplied Reference: 17968 Area(m²): 13402.05 Type: Ancient and Semi-Natural Woodland	B13NW (NW)	6	2	305154 168755
82	**Ancient Woodland** Name: Not Supplied Reference: 41881 Area(m²): 4602.34 Type: Plantation on Ancient Woodland	(W)	57	2	304775 168190
83	**Ancient Woodland** Name: Not Supplied Reference: 17970 Area(m²): 51384.43 Type: Ancient and Semi-Natural Woodland	B13NE (N)	121	2	305376 168812
84	**Ancient Woodland** Name: Not Supplied Reference: 7474 Area(m²): 13560.16 Type: Ancient and Semi-Natural Woodland	(W)	141	2	304857 168259
85	**Ancient Woodland** Name: Not Supplied Reference: 10077 Area(m²): 21678.26 Type: Restored Ancient Woodland Site	(W)	218	2	304804 168173
86	**Ancient Woodland** Name: Not Supplied Reference: 17969 Area(m²): 1657.63 Type: Ancient and Semi-Natural Woodland	(NW)	226	2	305114 168974

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**Ancient Woodland** Name: Not Supplied Reference: 8018 Area(m²): 16155.74 Type: Ancient and Semi-Natural Woodland	(NW)	242	2	305169 169024
88	**Ancient Woodland** Name: Not Supplied Reference: 17972 Area(m²): 2791.62 Type: Ancient and Semi-Natural Woodland	(NW)	271	2	305114 169018
89	**Ancient Woodland** Name: Not Supplied Reference: 17961 Area(m²): 4552.44 Type: Ancient and Semi-Natural Woodland	B14NW (NE)	367	2	305603 168637
90	**Ancient Woodland** Name: Not Supplied Reference: 17976 Area(m²): 1300.75 Type: Ancient and Semi-Natural Woodland	(NW)	433	2	304987 169201
91	**Ancient Woodland** Name: Not Supplied Reference: 8021 Area(m²): 19763.32 Type: Ancient and Semi-Natural Woodland	(NW)	444	2	304988 169202
92	**Ancient Woodland** Name: Not Supplied Reference: 18041 Area(m²): 4494.81 Type: Ancient and Semi-Natural Woodland	(SW)	509	2	304806 167879
93	**Ancient Woodland** Name: Not Supplied Reference: 8037 Area(m²): 14823.02 Type: Ancient and Semi-Natural Woodland	(SW)	516	2	304859 167905
94	**Ancient Woodland** Name: Not Supplied Reference: 18040 Area(m²): 4293.83 Type: Ancient and Semi-Natural Woodland	(SW)	634	2	304898 167777
95	**Ancient Woodland** Name: Not Supplied Reference: 8016 Area(m²): 23743.55 Type: Ancient and Semi-Natural Woodland	B14NE (NE)	758	2	305957 168830
96	**Ancient Woodland** Name: Not Supplied Reference: 17973 Area(m²): 8595.73 Type: Ancient and Semi-Natural Woodland	(NE)	849	2	305938 169082

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Vale Of Glamorgan County Borough Council - Environmental Health Department	January 2020	Annual Rolling Update
Natural Resources Wales	November 2023	Annually
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	November 2024	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	July 2024	Quarterly
Natural Resources Wales	November 2024	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Variable
Local Authority Pollution Prevention and Controls		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	November 2024	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Historical Prosecutions		
Environment Agency, Welsh Region	March 2013	Not Applicable
Natural Resources Wales	March 2013	Not Applicable
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	
Substantiated Pollution Incident Register		
Environment Agency Wales - South East Area	January 2021	Quarterly
Natural Resources Wales	November 2024	Quarterly
Water Abstractions		
Natural Resources Wales	December 2024	Quarterly
Environment Agency - Welsh Region	October 2024	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	

Agency & Hydrological	Version	Update Cycle
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	
OS Water Network Lines Ordnance Survey	October 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water Suitability Natural Resources Wales	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Water Framework Directive - Catchment Natural Resources Wales	July 2024	Annually
Water Framework Directive - Groundwater Natural Resources Wales	July 2024	Annually
Water Framework Directive - Surface Waters Natural Resources Wales	November 2024	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Natural Resources Wales Environment Agency Wales - South East Area	August 2024 January 2023	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	July 2024 November 2024	Quarterly Quarterly
Local Authority Landfill Coverage Vale Of Glamorgan County Borough Council	February 2003	Not Applicable
Local Authority Recorded Landfill Sites Vale Of Glamorgan County Borough Council	October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency Wales - South East Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September 2024	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Vale Of Glamorgan County Borough Council - Planning Department	January 2016	Variable
Planning Hazardous Substance Consents Vale Of Glamorgan County Borough Council - Planning Department	January 2016	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	March 2024	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	November 2024	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	November 2024	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	December 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Points of Interest - Commercial Services PointX	December 2024	Quarterly
Points of Interest - Education and Health PointX	December 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2024	Quarterly
Points of Interest - Public Infrastructure PointX	December 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	October 2024	Bi-Annually
Areas of Adopted Green Belt Vale Of Glamorgan County Borough Council	July 2024	Quarterly
Areas of Unadopted Green Belt Vale Of Glamorgan County Borough Council	July 2024	Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	November 2024	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Vale Of Glamorgan County Borough Council	August 2024	Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2024	Bi-Annually
National Nature Reserves Natural Resources Wales	January 2025	Bi-Annually
National Parks Natural Resources Wales	September 2024	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 November 2024	Bi-Annually
Ramsar Sites Natural Resources Wales	August 2024	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	November 2024	Bi-Annually
Special Areas of Conservation Natural Resources Wales	October 2024	Bi-Annually
Special Protection Areas Natural Resources Wales	November 2024	Bi-Annually

Data Suppliers

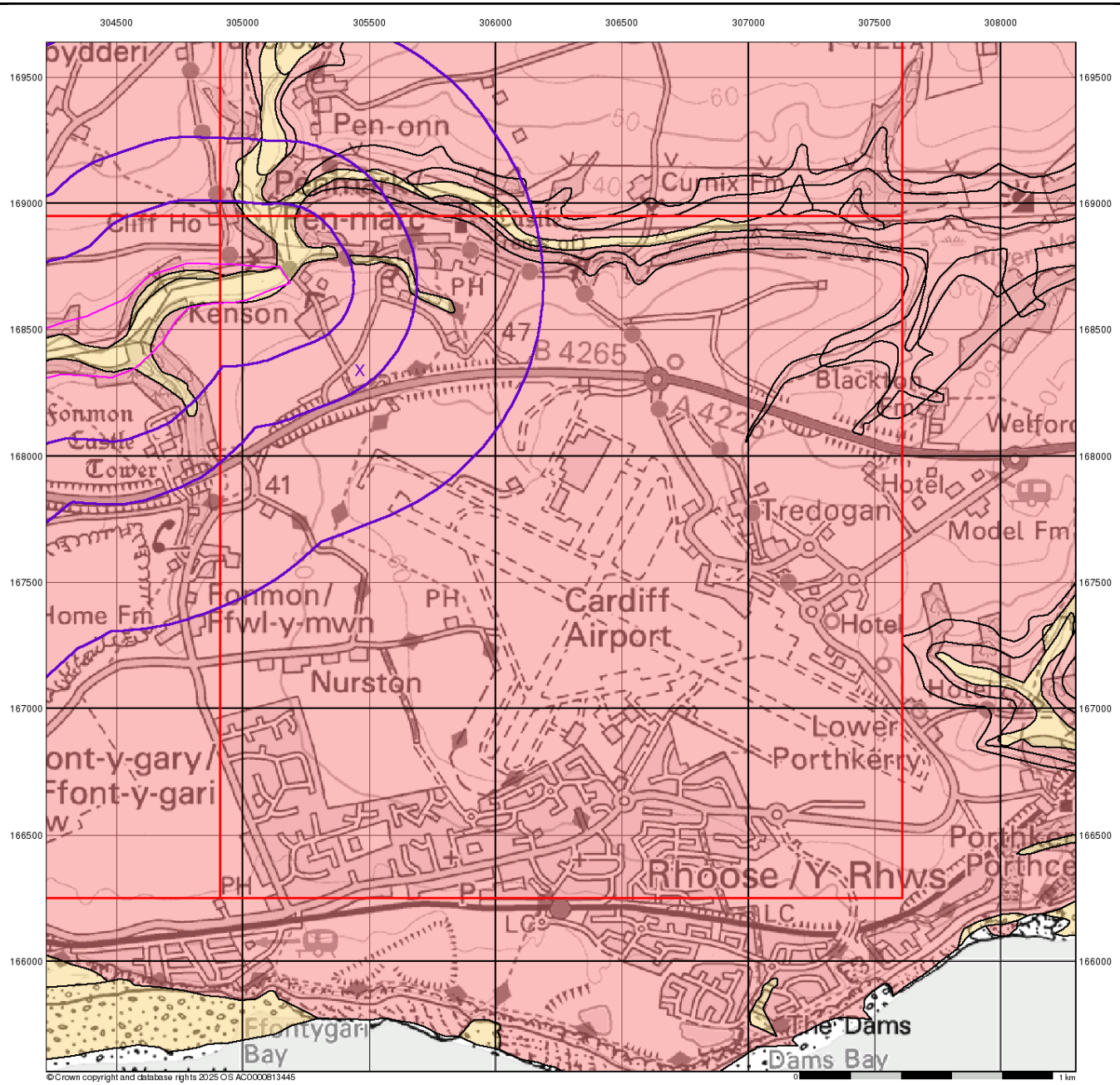
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
5	**Vale Of Glamorgan County Borough Council** Civic Offices, Holton Road, Barry, South Glamorgan, CF63 4RU	Telephone: 01446 700111 Fax: 01446 745566 Website: www.valeofglamorgan.gov.uk
6	**PointX** 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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



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LANDMARK INFORMATION GROUP

Groundwater Vulnerability

General

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

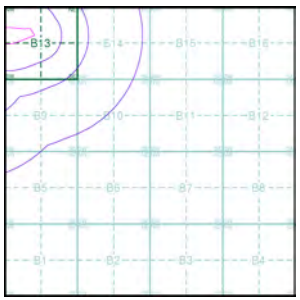
Agency and Hydrological

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 B



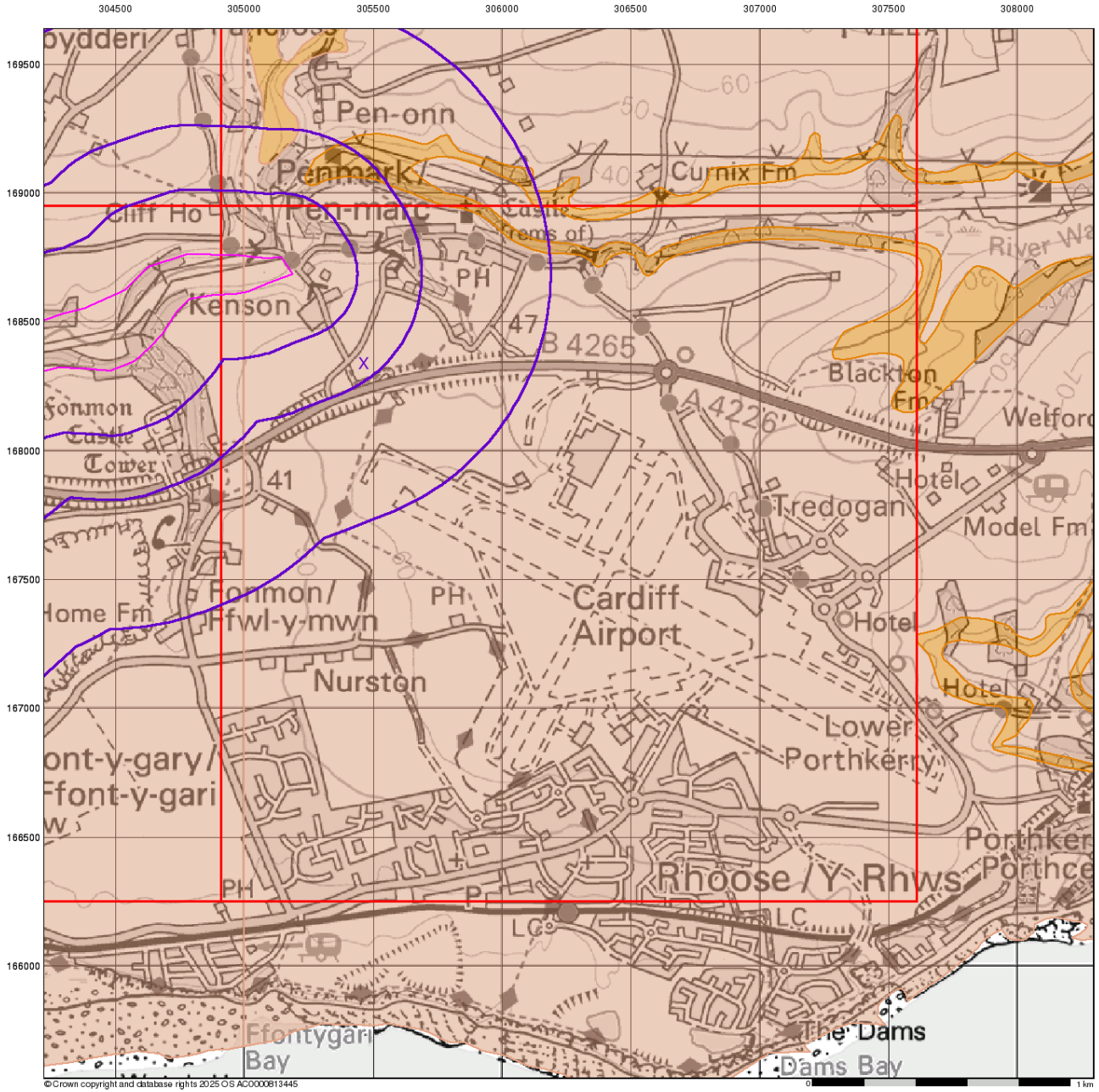
Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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



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LANDMARK INFORMATION GROUP

Bedrock Aquifer Designation

General

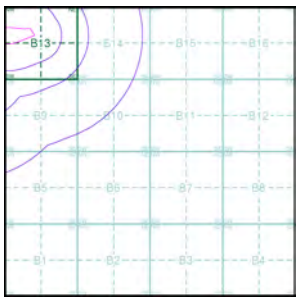
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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 B



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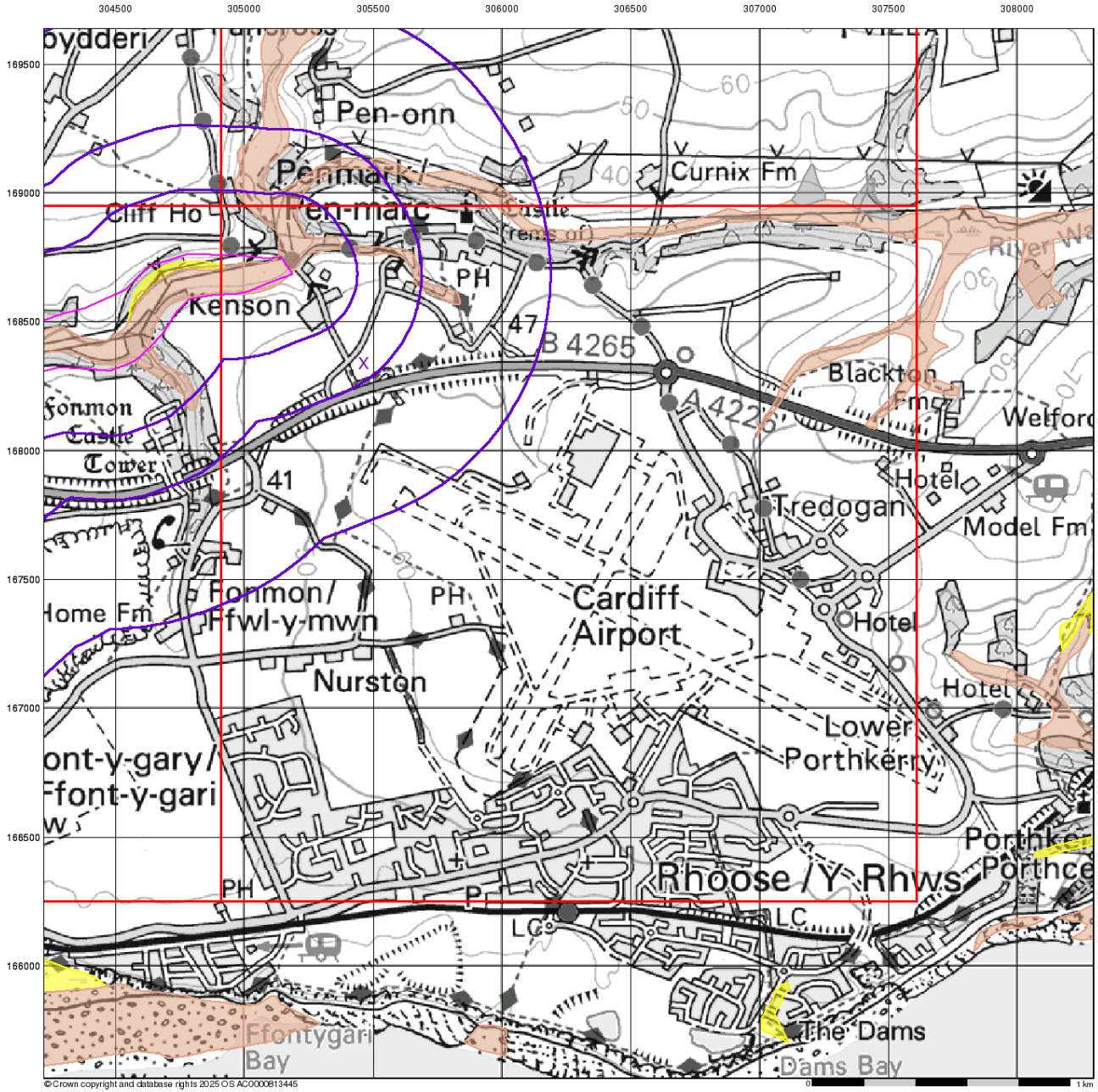


Envirocheck

LANDMARK INFORMATION GROUP

Superficial Aquifer Designation

General

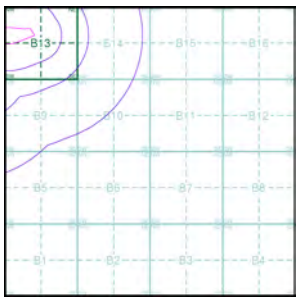
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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 B



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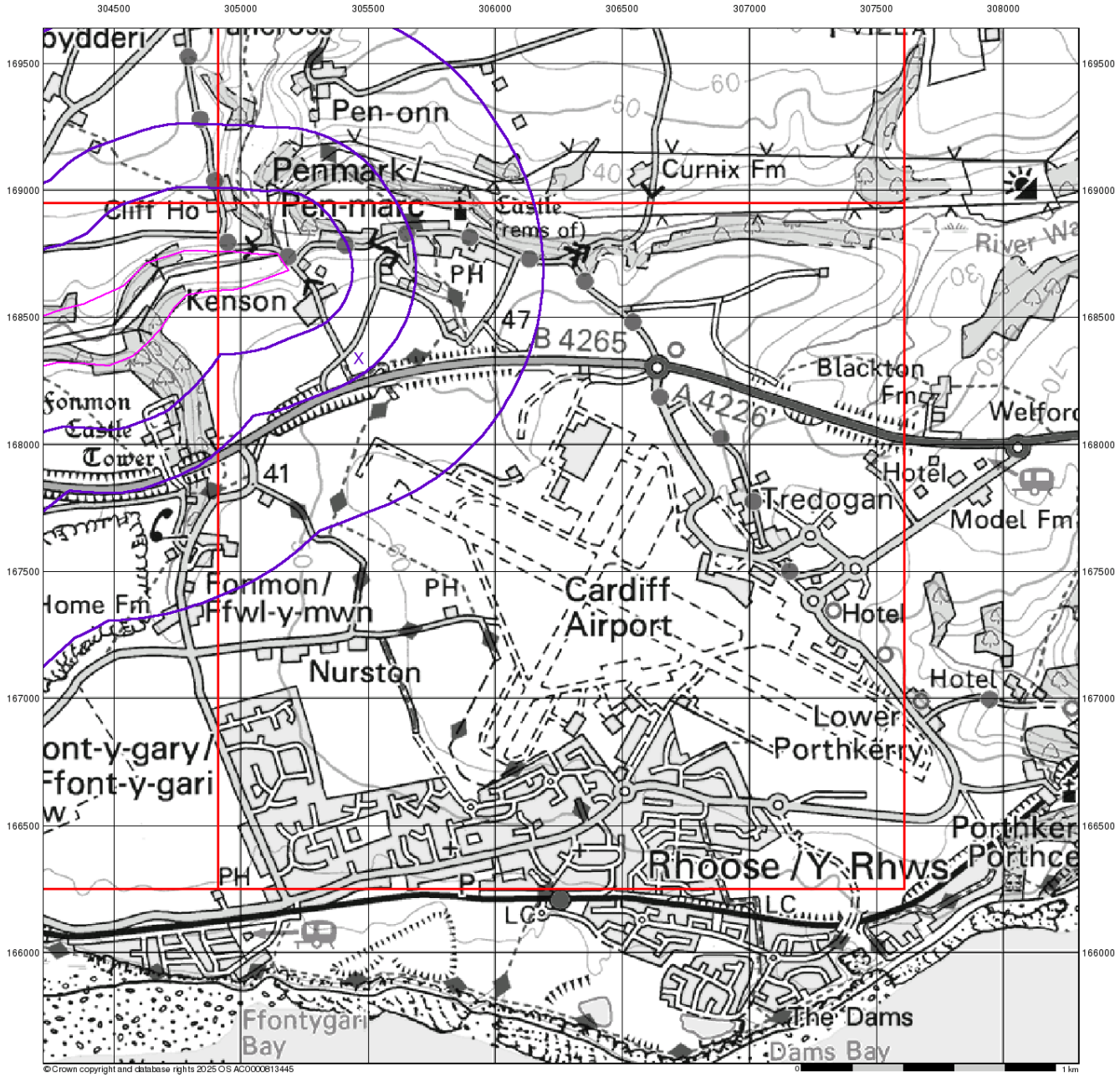

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LANDMARK INFORMATION GROUP

Source Protection Zones

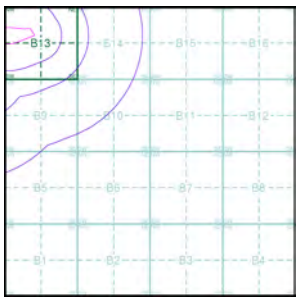
General

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 B



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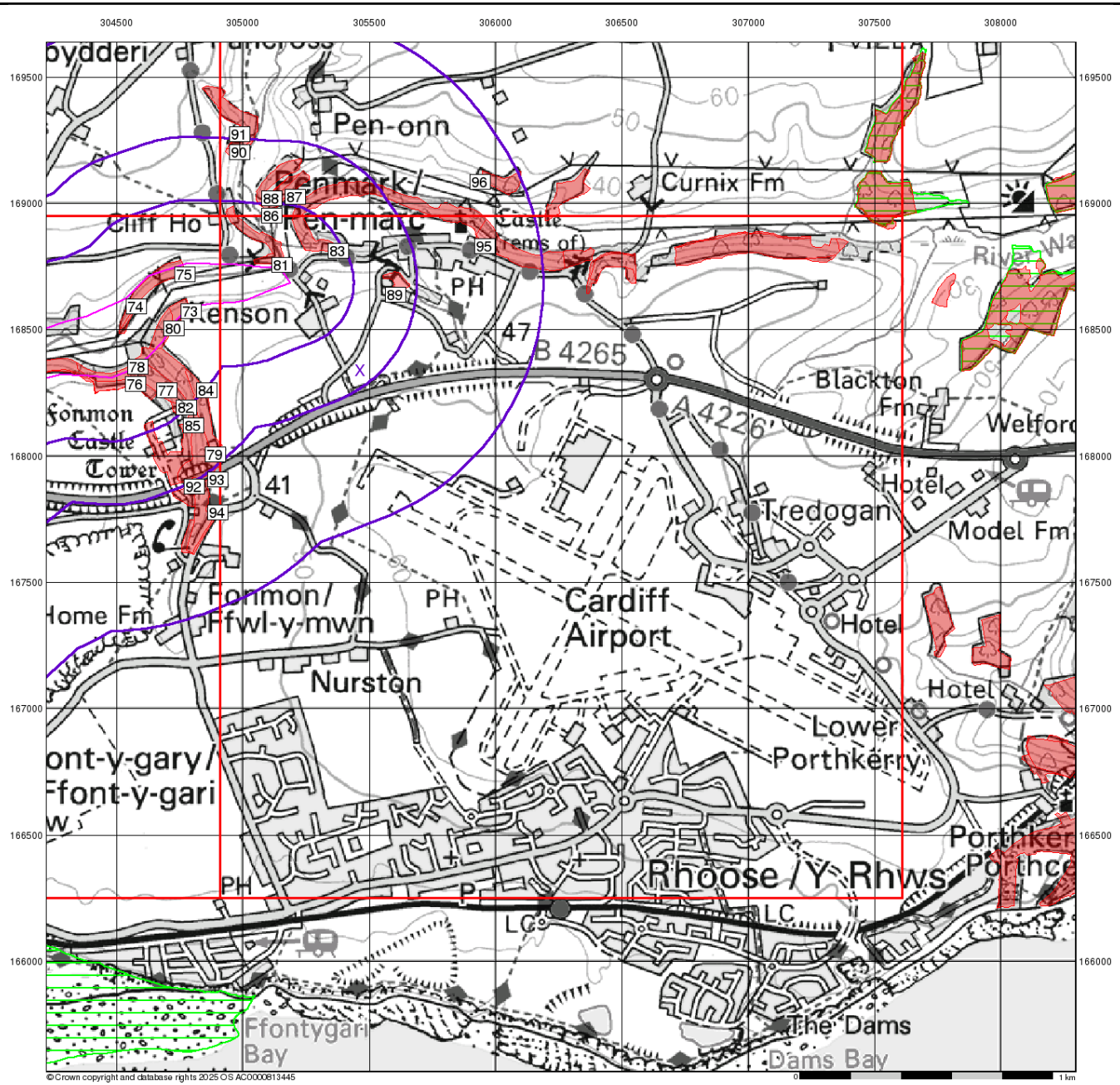

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LANDMARK INFORMATION GROUP

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 B

Order Details

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Search Buffer (m):	1000

Site Details

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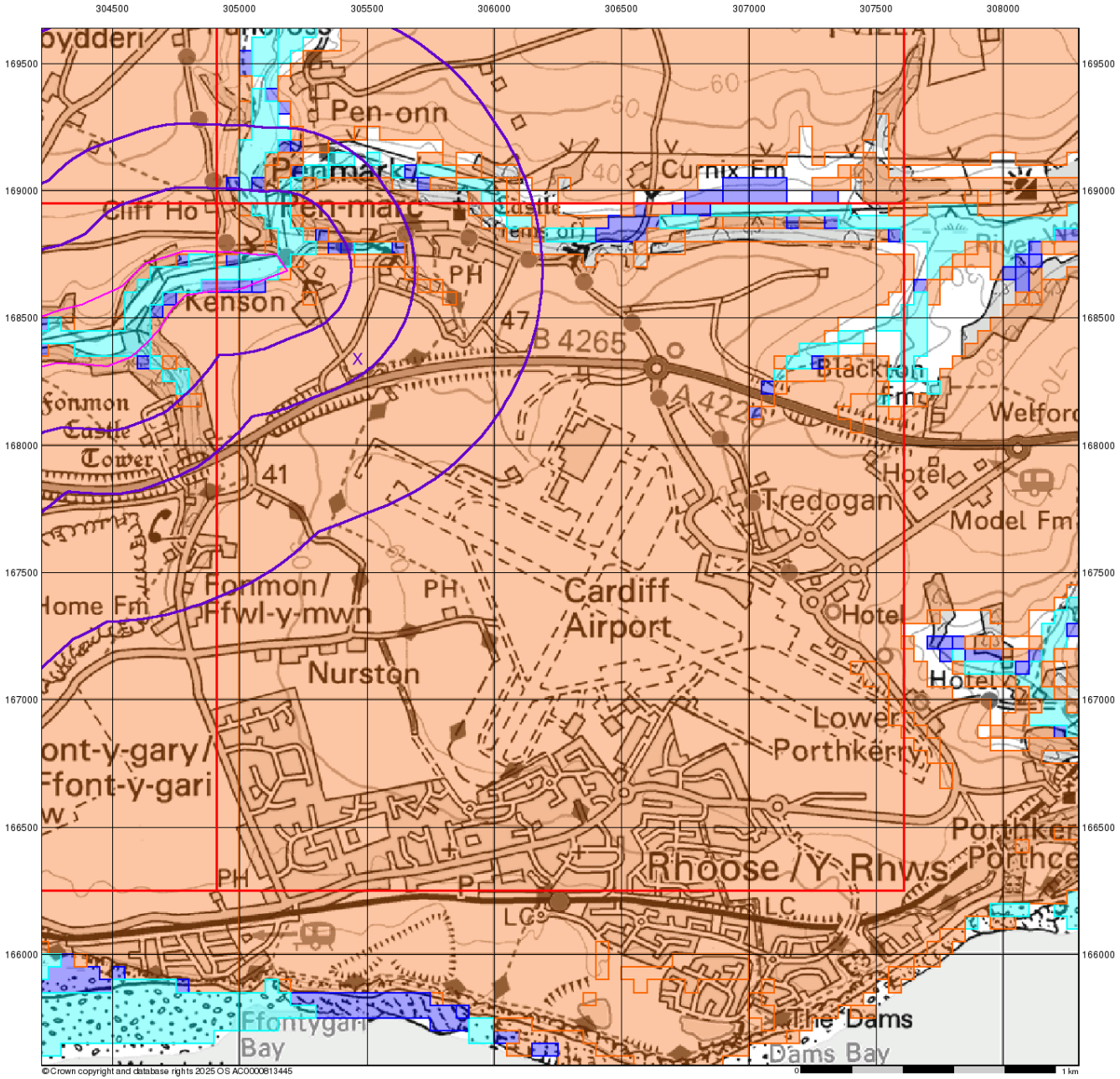

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BGS Flood GFS Data

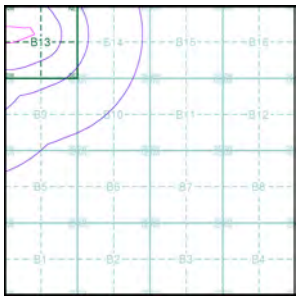
General

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 B



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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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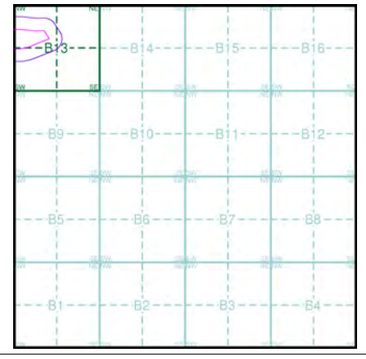
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1885	2
Glamorganshire	1:10,560	1900 - 1901	3
Glamorganshire	1:10,560	1921	4
Glamorganshire	1:10,560	1936	5
Glamorganshire	1:10,560	1938 - 1947	6
Historical Aerial Photography	1:10,560	1947	7
Historical Aerial Photography	1:10,560	1947	8
Ordnance Survey Plan	1:10,000	1964 - 1965	9
Ordnance Survey Plan	1:10,000	1969	10
Ordnance Survey Plan	1:10,000	1975	11
Ordnance Survey Plan	1:10,000	1982 - 1984	12
Ordnance Survey Plan	1:10,000	1990 - 1995	13
10K Raster Mapping	1:10,000	1999	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2024	16

Historical Map - Slice B



Order Details

Order Number: 367701071_1_1
Customer Ref: 2025s0023
National Grid Reference: 305460, 168340
Slice: B
Site Area (Ha): 40.66
Search Buffer (m): 1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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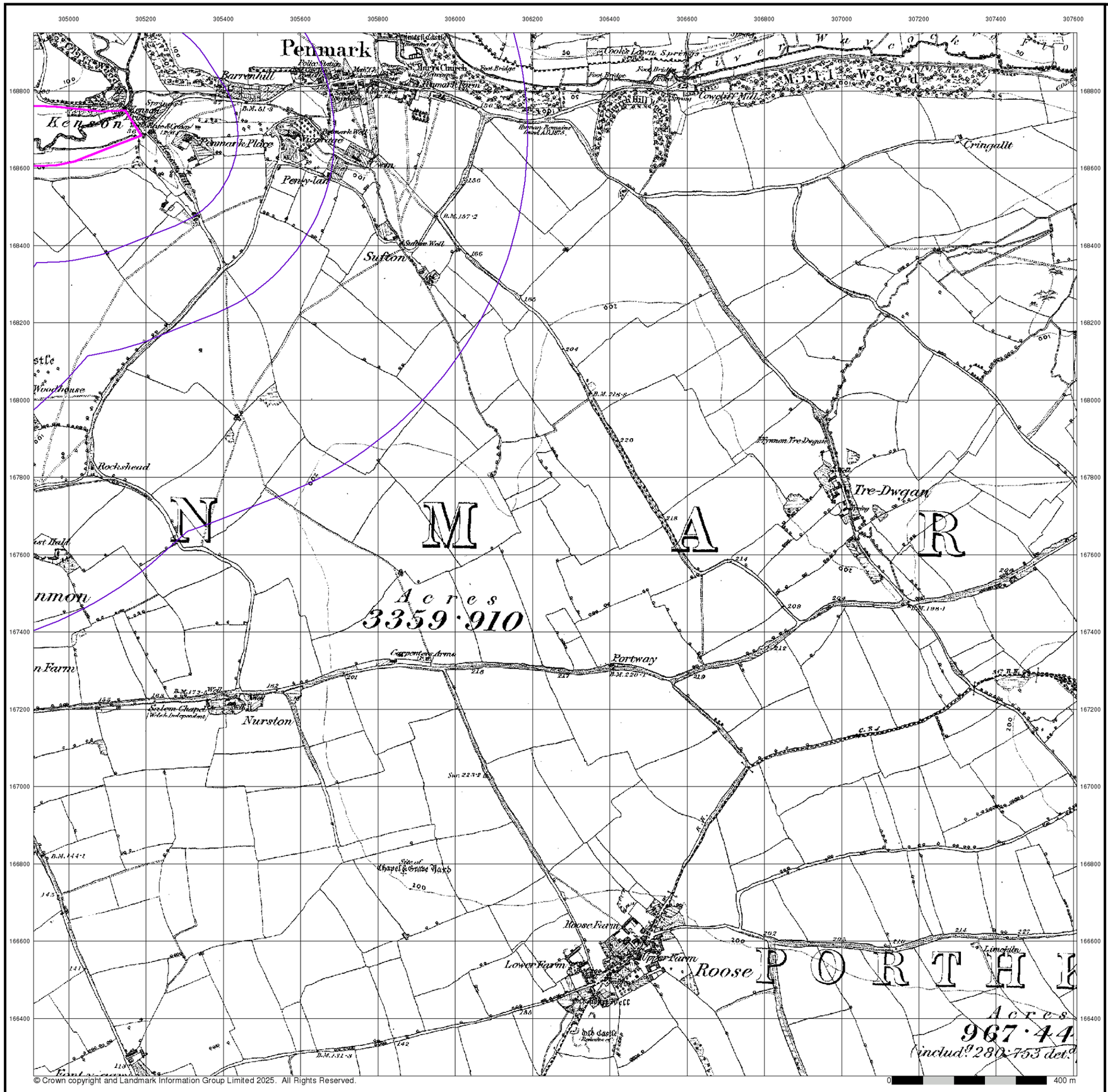
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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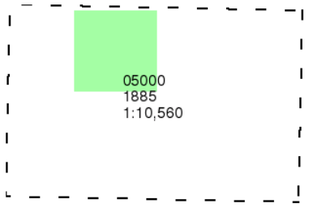
Glamorganshire

Published 1885

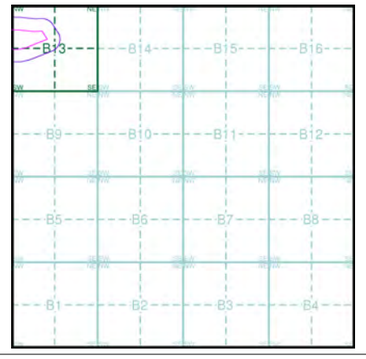
Source map scale - 1:10,560

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 B



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
Site Area (Ha):	40.66
Search Buffer (m):	1000

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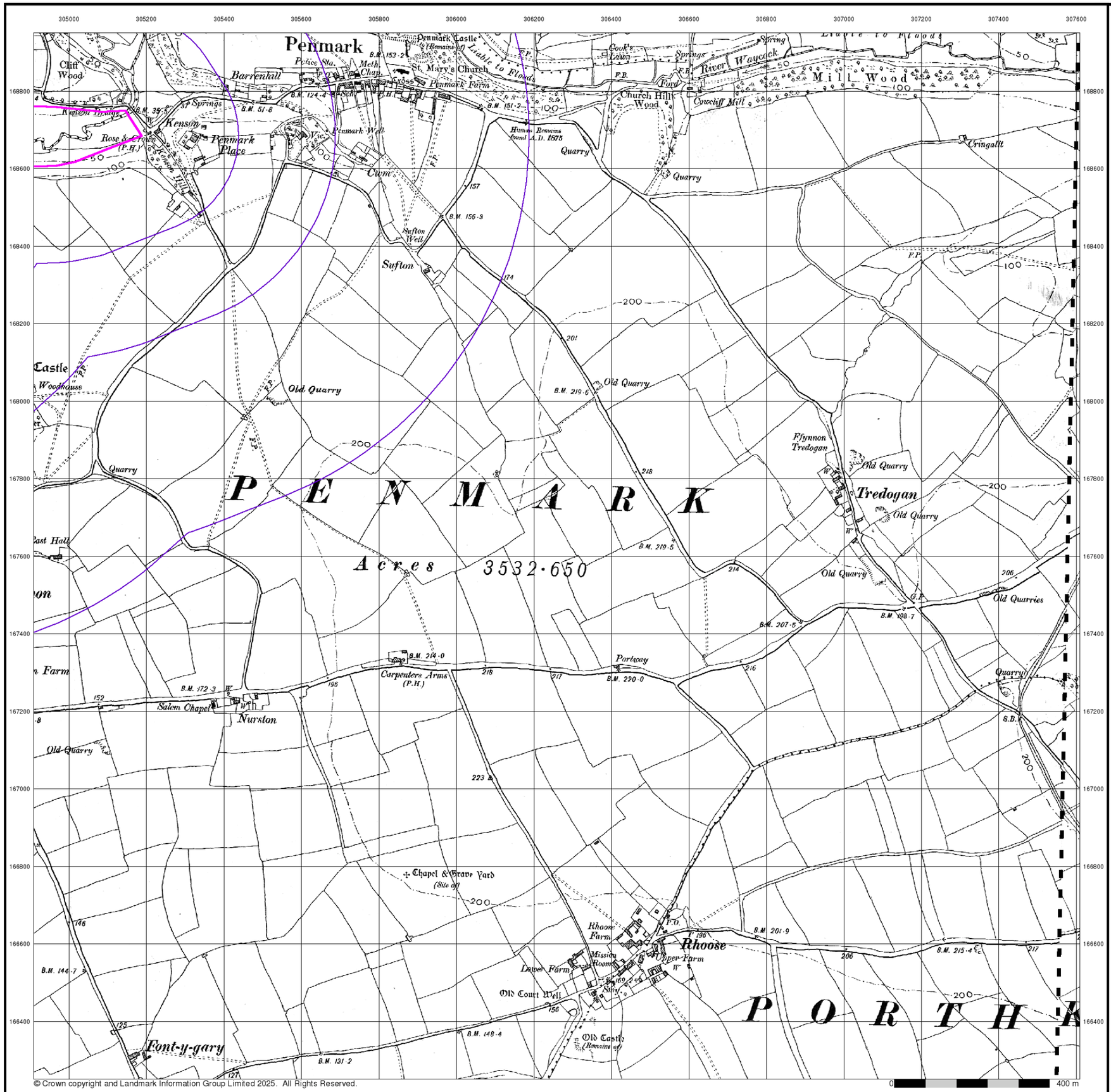

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Glamorganshire

Published 1900 - 1901

Source map scale - 1:10,560

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

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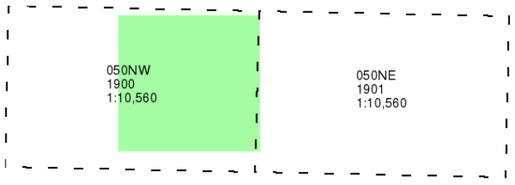
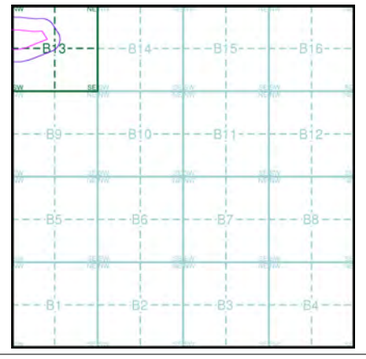


Historical Map - Slice B



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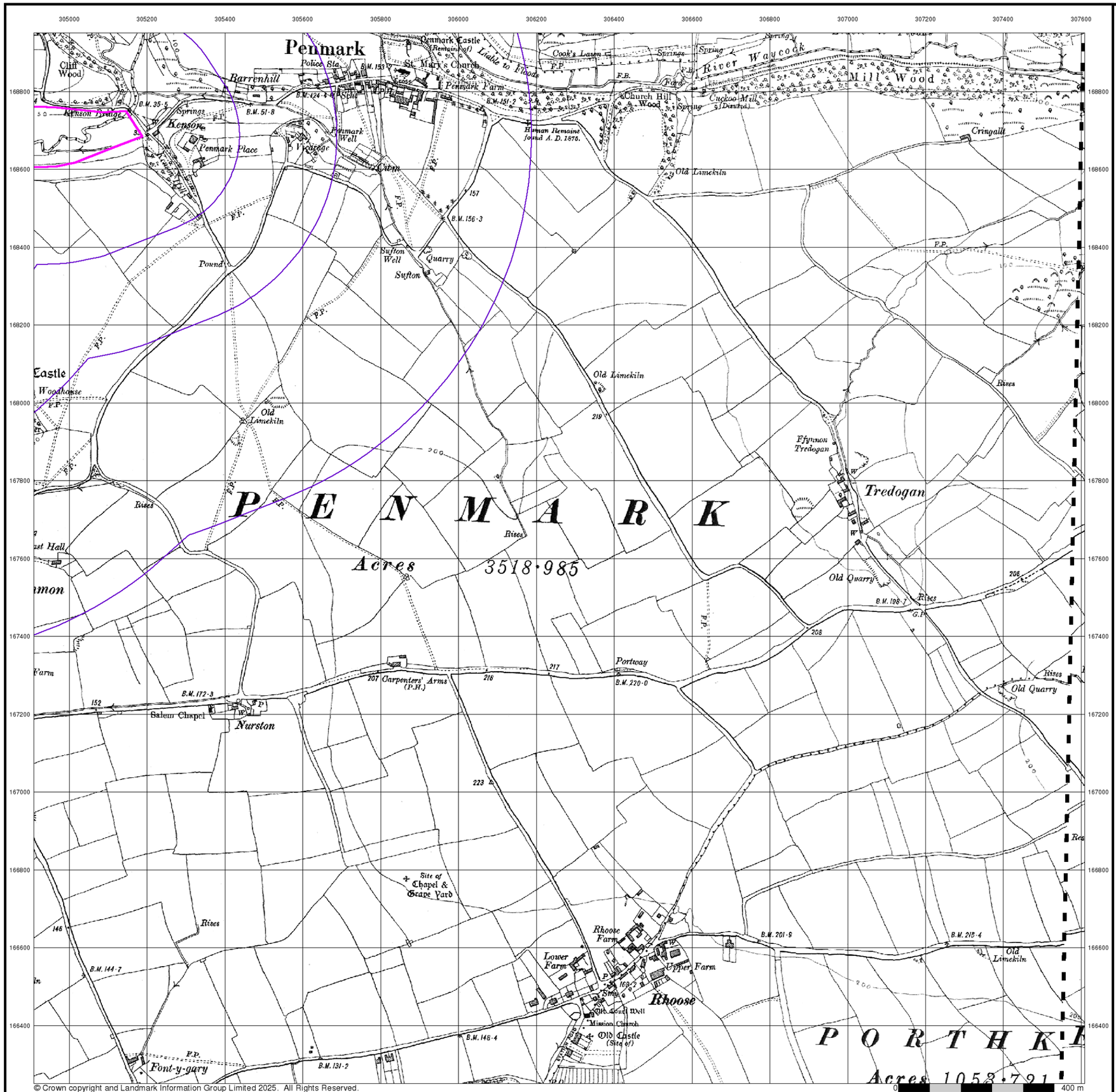

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Glamorganshire

Published 1921

Source map scale - 1:10,560

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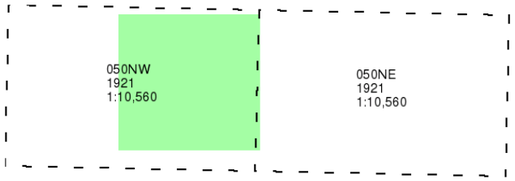
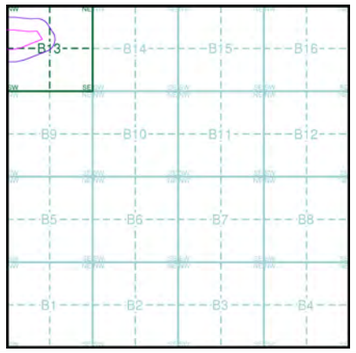


Historical Map - Slice B



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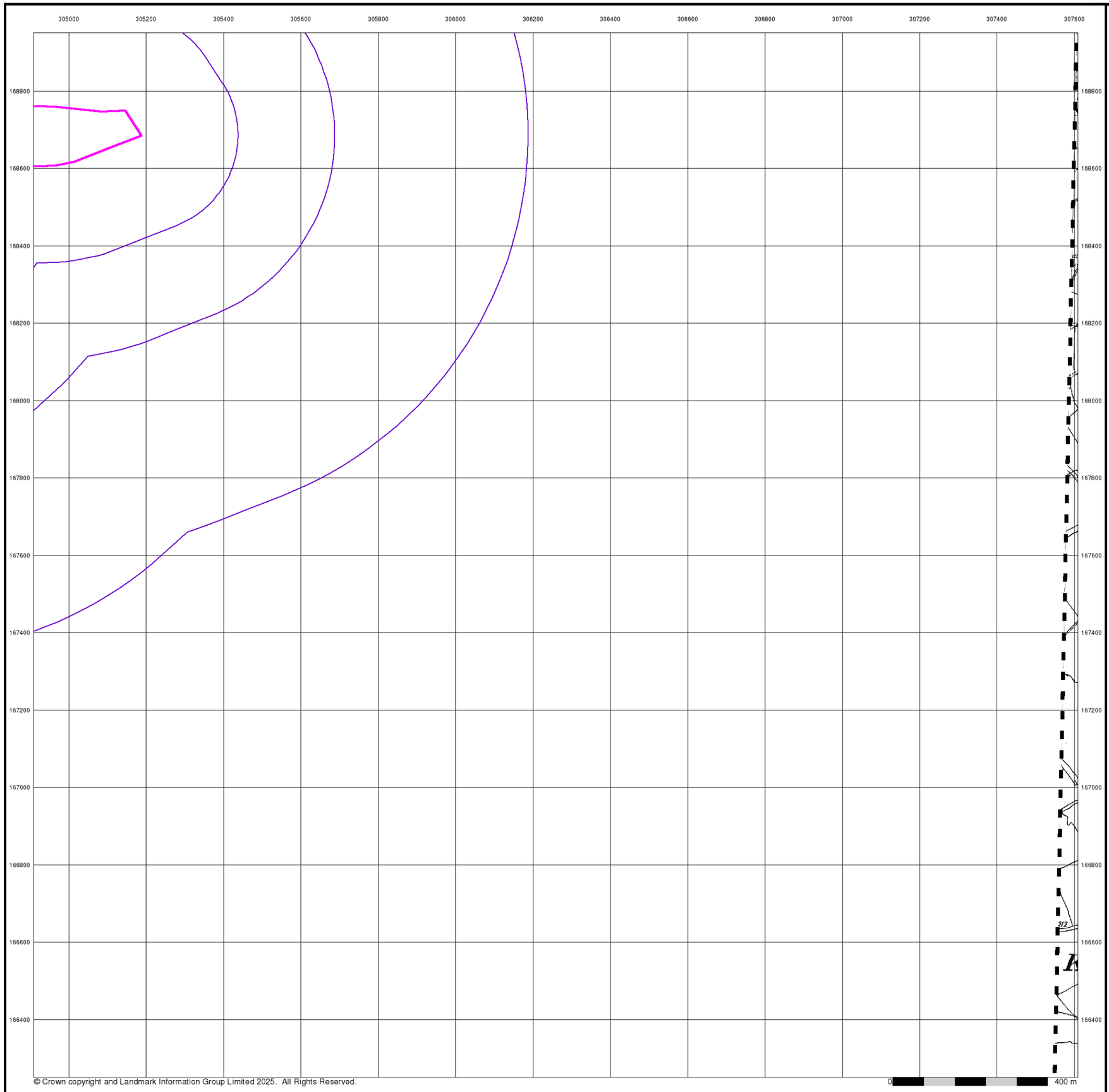

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Glamorganshire

Published 1936

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.

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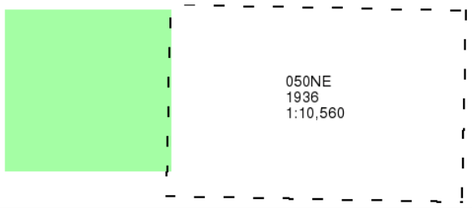
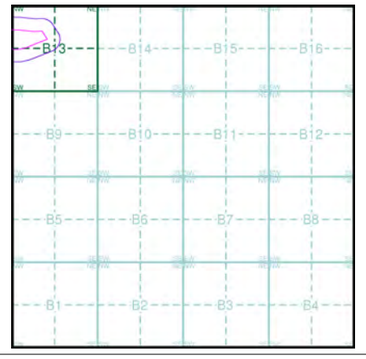


Historical Map - Slice B



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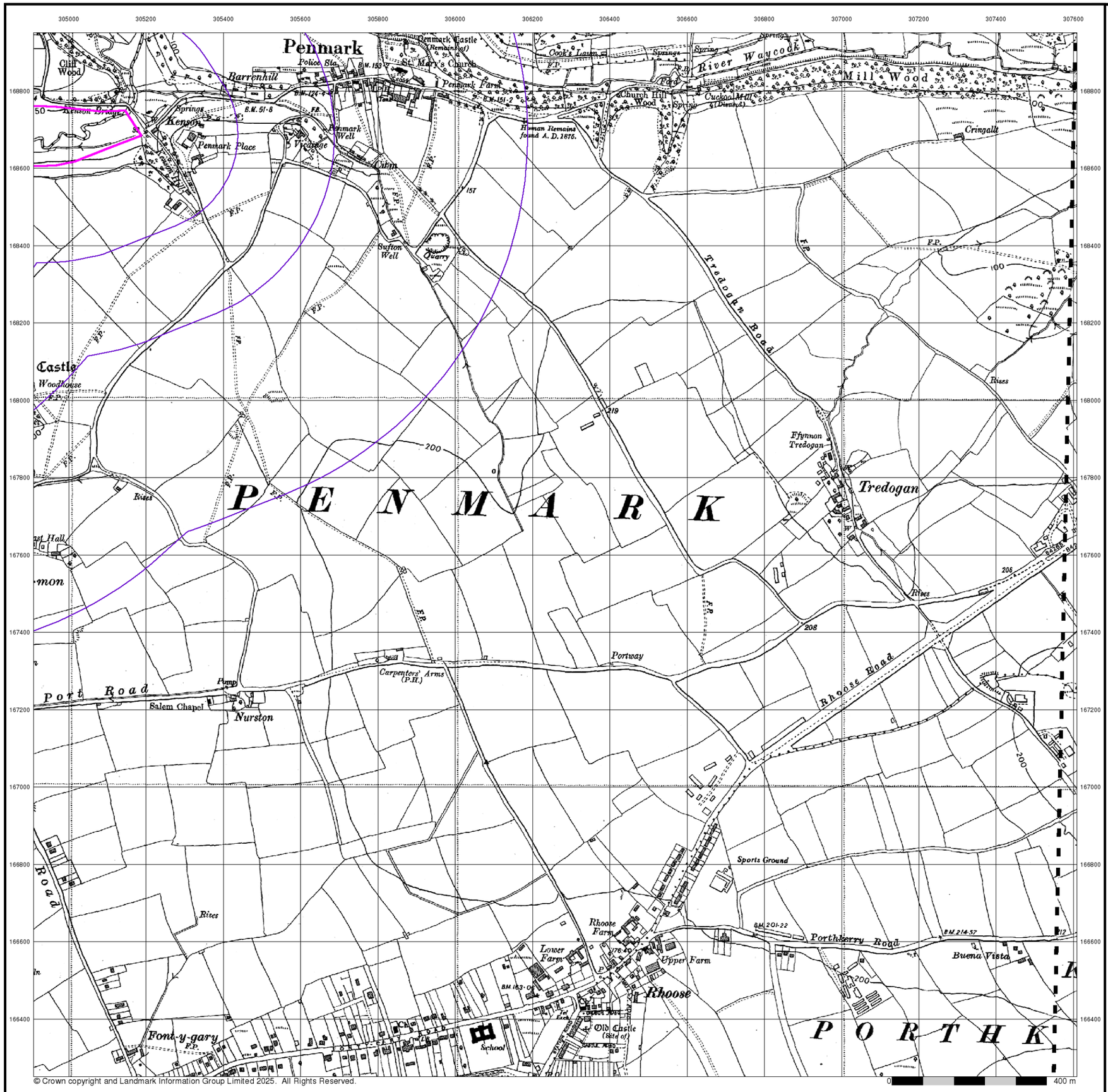
Penmark
Penmark Castle (Remains of)
St. Mary's Church
Police Sta.
Barrenhill
Penmark Farm
Cook's Farm
River Waycock
Mill Wood
Cliff Wood
Kenson Bridge
Springs
Kenson
Penmark Place
Penmark Well
Vicarage
Church
Human Remains found A.D. 1876.
Church Hill Wood
Cuckoo Mill (Disused)
Cringallt
Sufton Well
Quarry
Tredodyn Road
Castle
Woodhouse
Rises
Ffynnon Tredogan
Tredogan
P E N M A R K
Hall
Portway
Carpenters' Arms (P.H.)
Port Road
Pump
Salem Chapel
Nurston
Rhoose Road
Sports Ground
Rhoose Farm
Lower Farm
Upper Farm
Rhoose
Old Castle (Site of)
School
Font-y-gary
Porthkerry Road
Buena Vista
P O R T H K
BM 201·22
BM 214·57
BM 163·0
176·40
Tel
Fm
Pond
Ho
Sta
Gas Works
Tank
Ch
Ruin
Quarry
Pond
Sch
Ho
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Historical Aerial Photography

Published 1947

Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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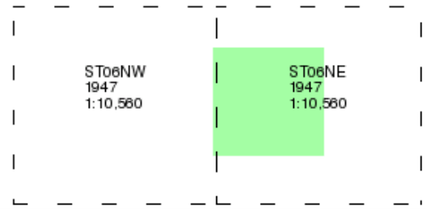
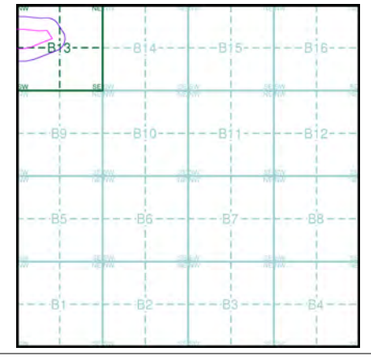
Map Name(s) and Date(s)



Historical Aerial Photography - Slice B



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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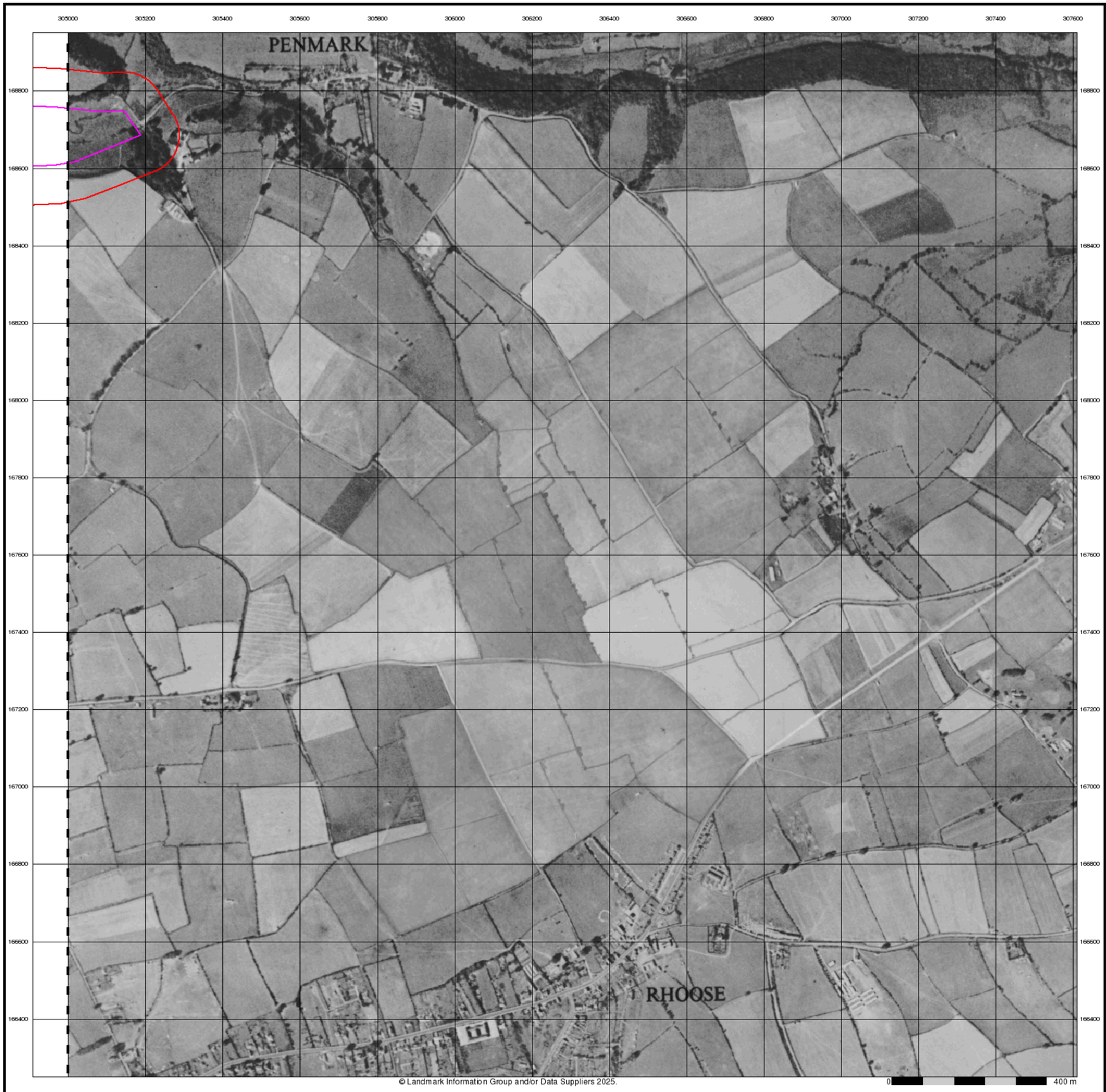

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Historical Aerial Photography

Published 1947

Source map scale - 1:10,560

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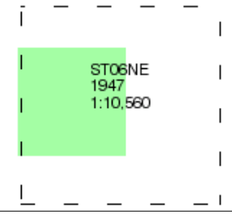
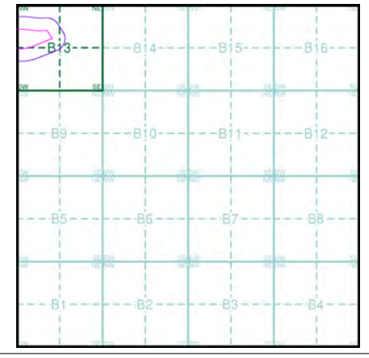


Historical Aerial Photography - Slice B



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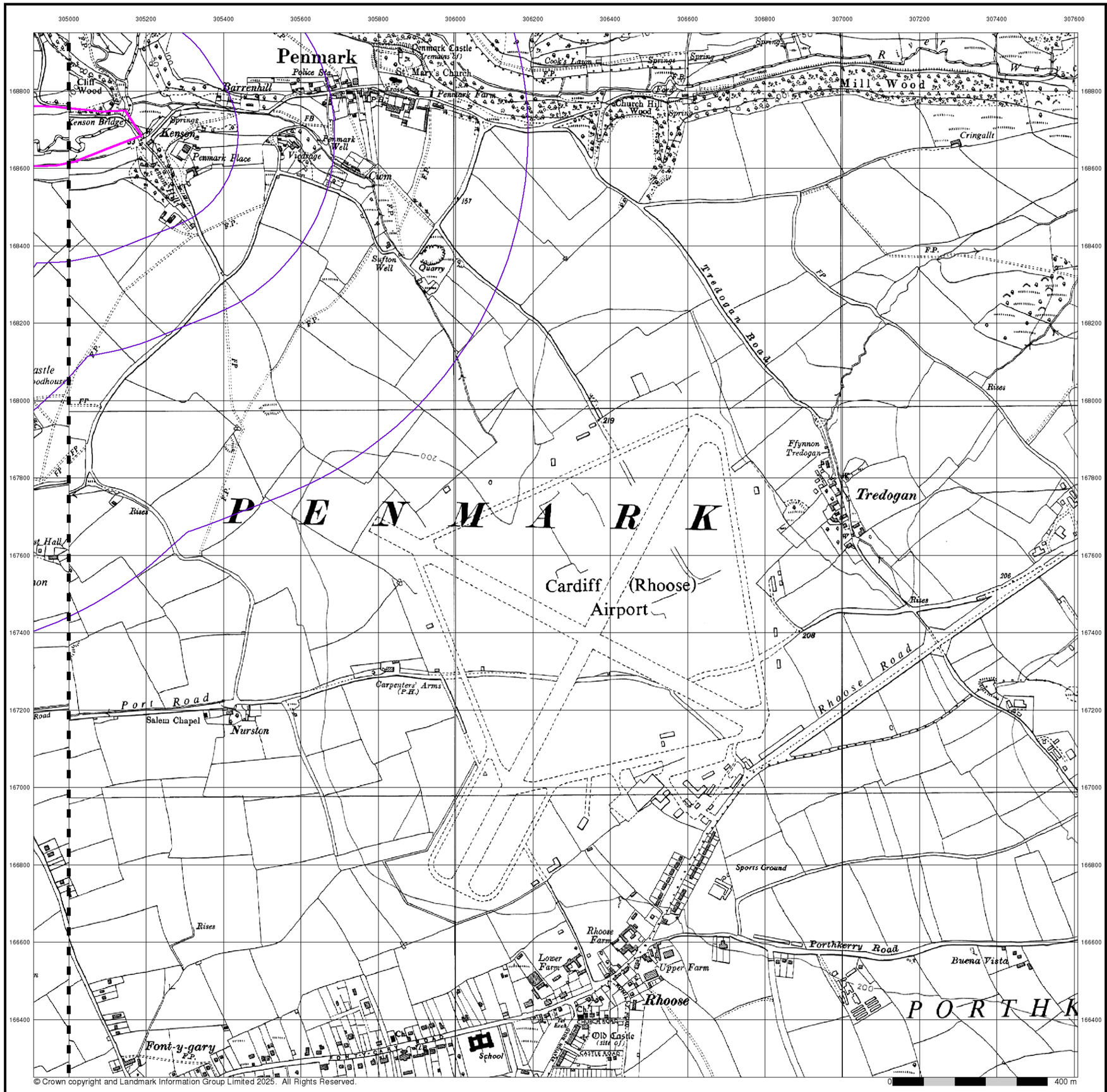

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Ordnance Survey Plan

Published 1964 - 1965

Source map scale - 1:10,000

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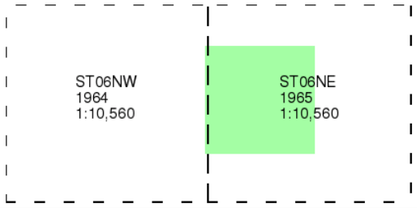
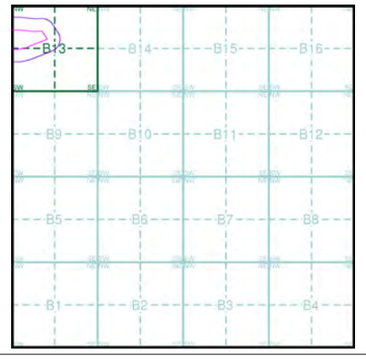
Map Name(s) and Date(s)



Historical Map - Slice B



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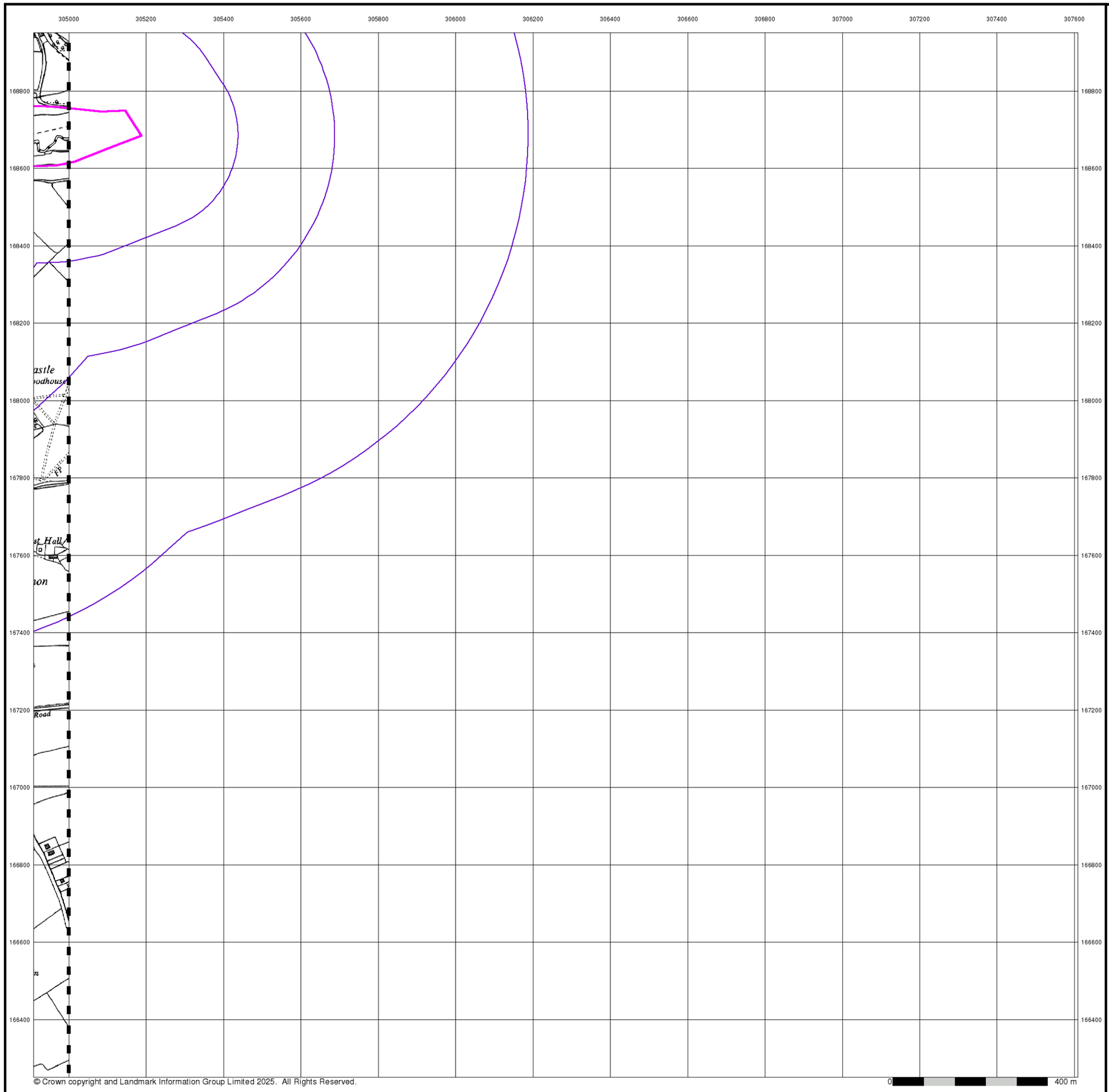

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Ordnance Survey Plan

Published 1969

Source map scale - 1:10,000

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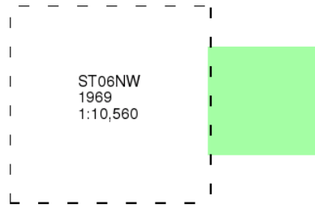
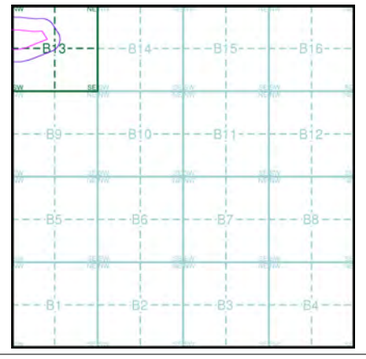


Historical Map - Slice B



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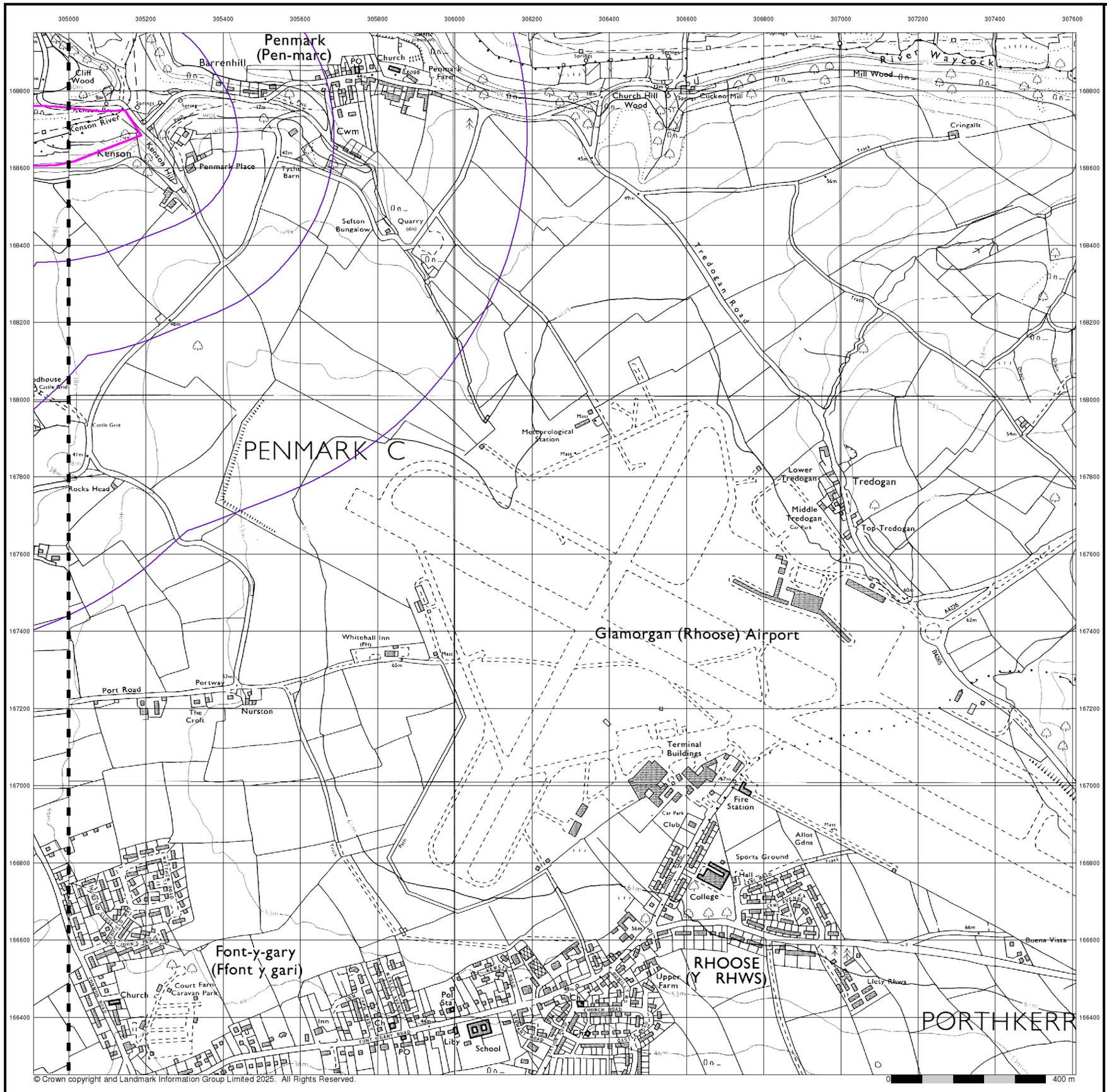

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Ordnance Survey Plan

Published 1975

Source map scale - 1:10,000

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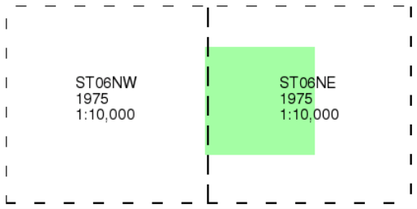
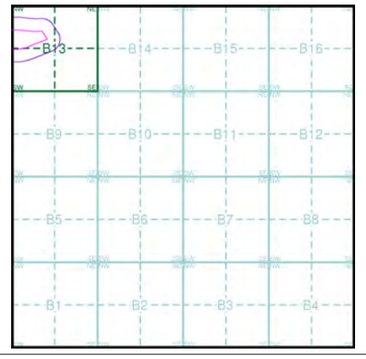


Historical Map - Slice B



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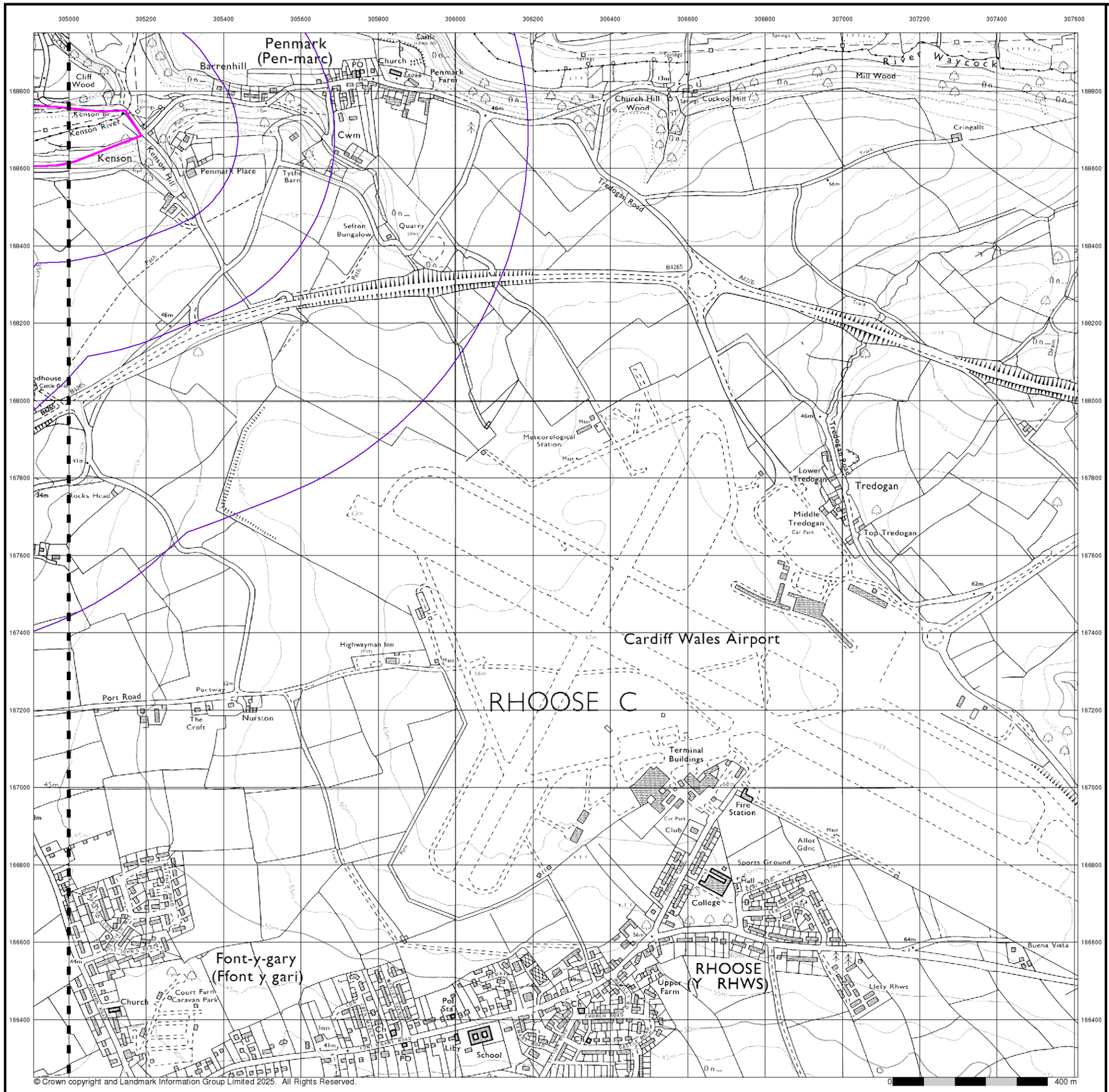
Slice:	B
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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



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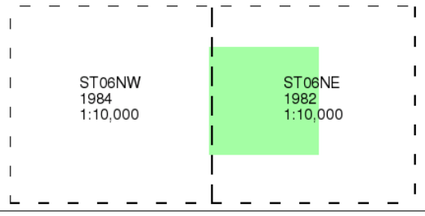
Ordnance Survey Plan

Published 1982 - 1984

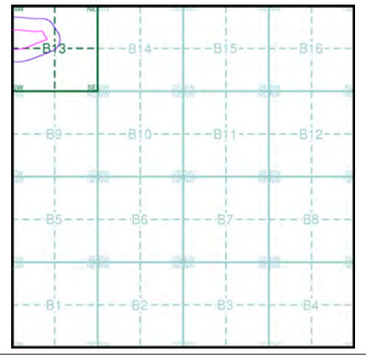
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

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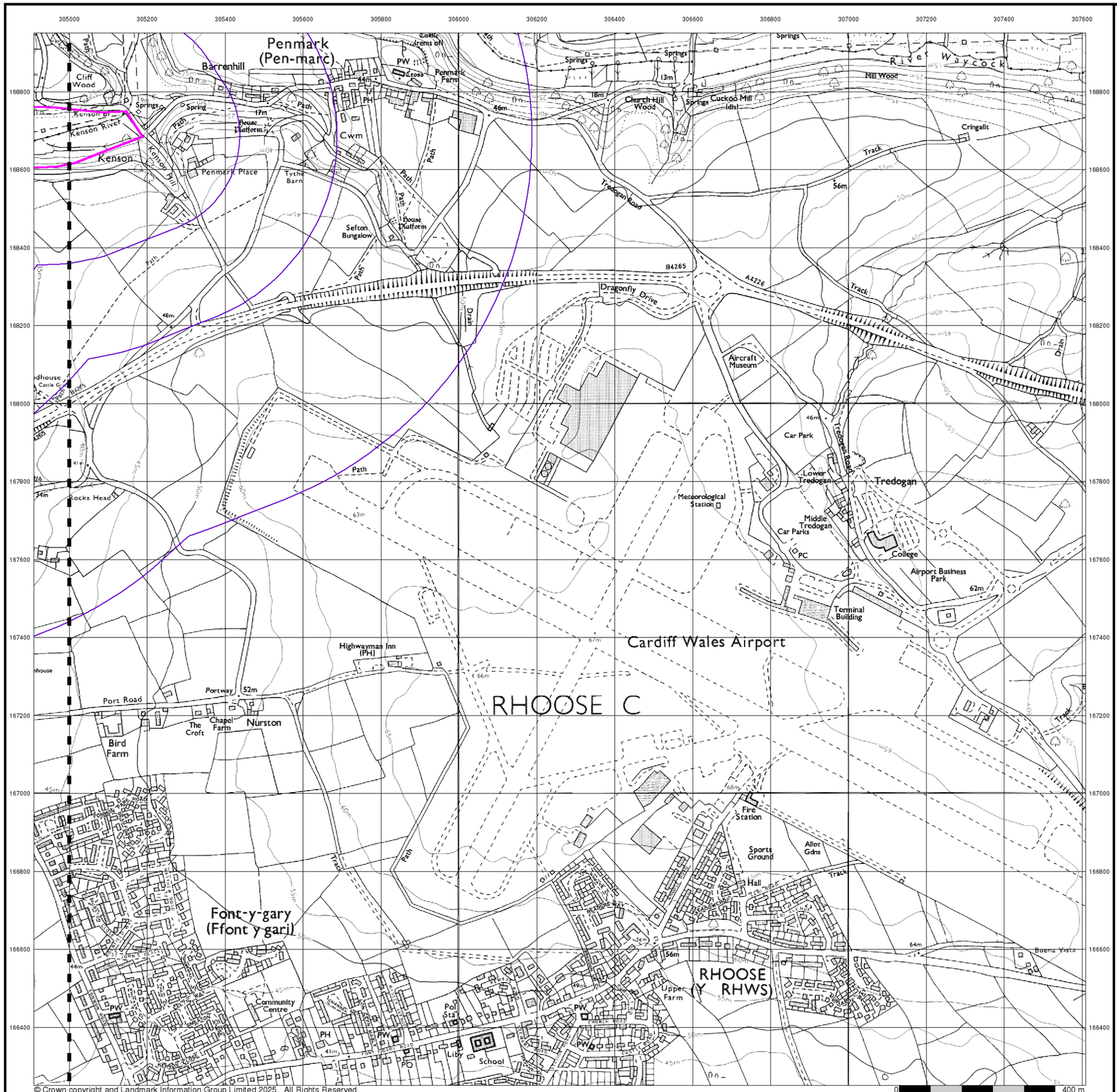
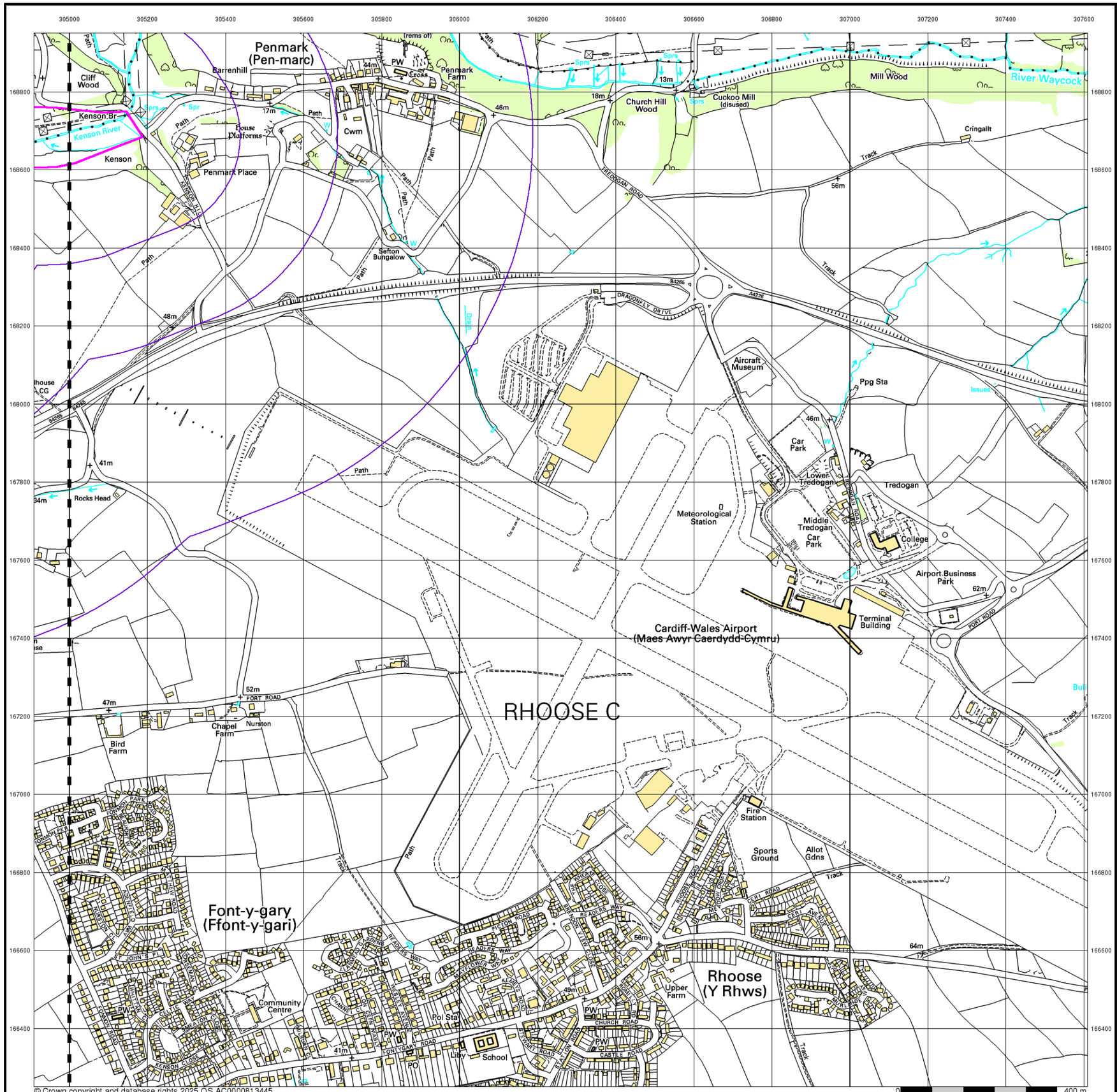

Penmark (Pen-marc)
Barrenhill
Cliff Wood
Kenson
Kenson River
Kenson Hill
Penmark Place
Tythe Barn
Cwm
PH
Penmark Farm
Church Hill Wood
Cuckoo Mill (dis)
Mill Wood
River Waycock
Cringallic
Track
Tredogan Road
56m
Sefton Bungalow
House Platform
B4265
A4226
Dragonfly Drive
Aircraft Museum
Car Park
Lower Tredogan
Tredogan
Meteorological Station
Middle Tredogan Car Parks
PC
College
Airport Business Park
62m
Terminal Building
Cardiff Wales Airport
Rocks Head
Highwayman Inn (PH)
Port Road
Portway
52m
The Croft
Chapel Farm
Nurston
Bird Farm
RHOOSE C
Font-y-gary (Ffont y gari)
Fire Station
Sports Ground
Allot Gdns
Hall
Community Centre
Pol Sta
Lib
School
PO
Upper Farm
RHOOSE (Y RHWS)
Buena Vista
Springs
Spring
Path
Track
Drain
Cattle
Sheep
Goats
PW
Cross
Trig Point
Cattle Grid
Path Barrs
House Platform
Tank
Ruins
Quarry
Pond
Refuse Tip
Slip
Sch
Ch
Rec
Allot
Gdns
Stn
Ind Est
Ret Pk
Bus Pk
Ctr
Mon
Obsn
Wks
Fm
Cott
Bldgs
Ho
Gdns
Cem
Crem
Ref
Sub Sta
Gas Gov
Tel
Mast
Pylon
Gallows
Windmill
Boundary Stone
Milestone
Milepost
Fingerpost
Guide Post
Ford
Bridge
Viaduct
Aqueduct
Tunnel
Level Crossing
Weir
Lock
Dock
Slipway
Pier
Jetty
Foreshore
Shingle
Sand
Mud
Rock
Cliff
Scree
Boulder
Coppice
Orchard
Scrub
Rough Grassland
Heath
Marsh
Reeds
Saltings
Open Cast
Mixed
Coniferous
Deciduous
Non Coniferous
Multi-storey
Glasshouse
Refinery
Slag
Tip
Pit
Shaft
Adit
Spoil Heap
Clay Pit
Gravel Pit
Sand Pit
Limestone
Chalk
Boulder Clay
Alluvium
Peat
Loam
Sand and Gravel
Made Ground
Landfill
Solid
Unknown
Glacial Till
Head
Blown Sand
Raised Beach
Estuarine Alluvium
Tidal Water
Lake
Reservoir
Canal
River
Stream
Inland Water
Foreshore
Sea Wall
Sea Defence
Groyne
Breakwater
Boat Moorings
Boat Yard
Beach
Dune



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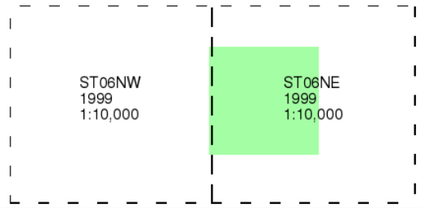
10k Raster Mapping

Published 1999

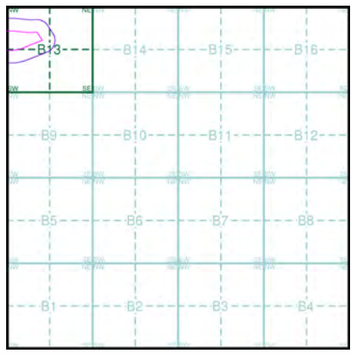
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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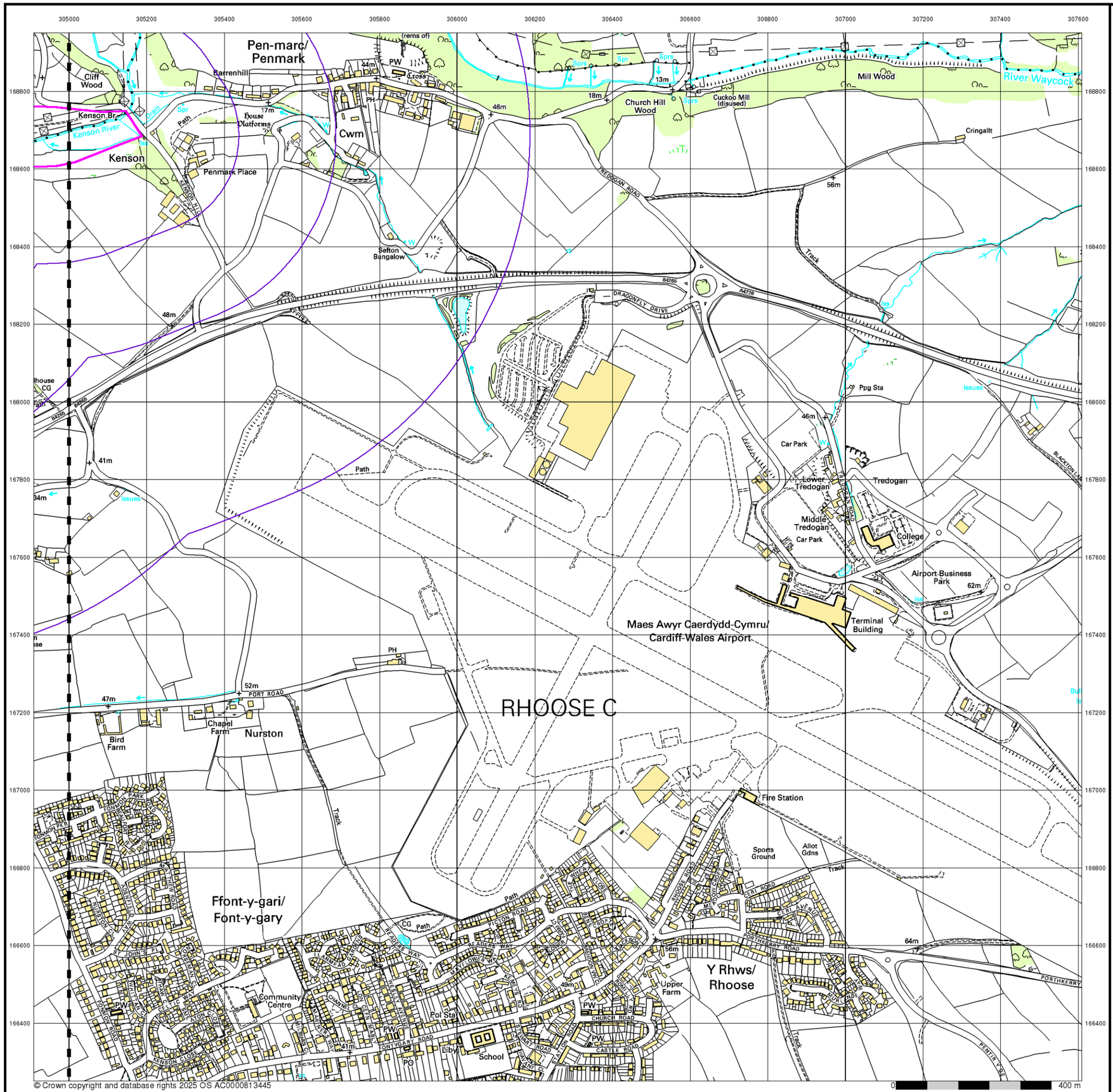

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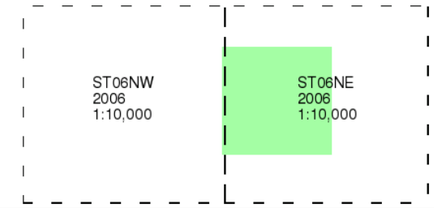
10k Raster Mapping

Published 2006

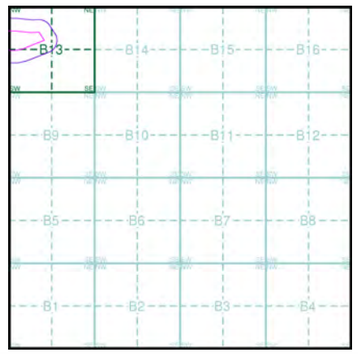
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
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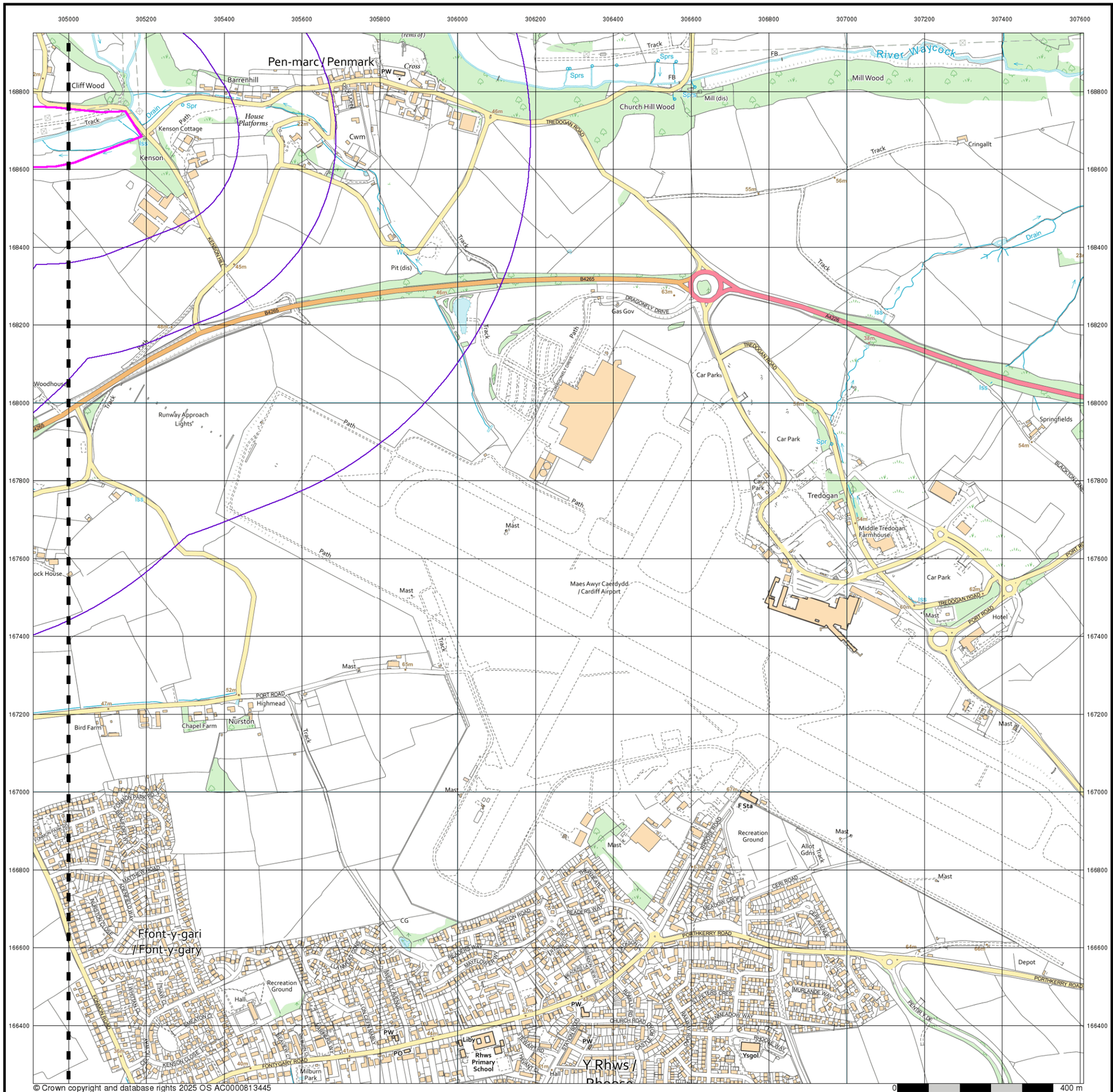

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VectorMap Local

Published 2024

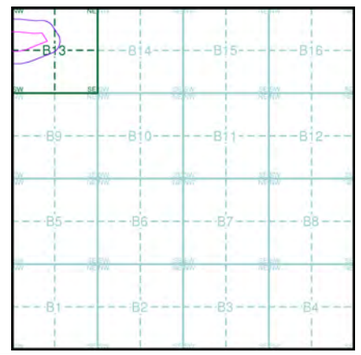
Source map scale - 1:10,000

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)

ST06NW	ST06NE
2024	2024
Variable	Variable

Historical Map - Slice B



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

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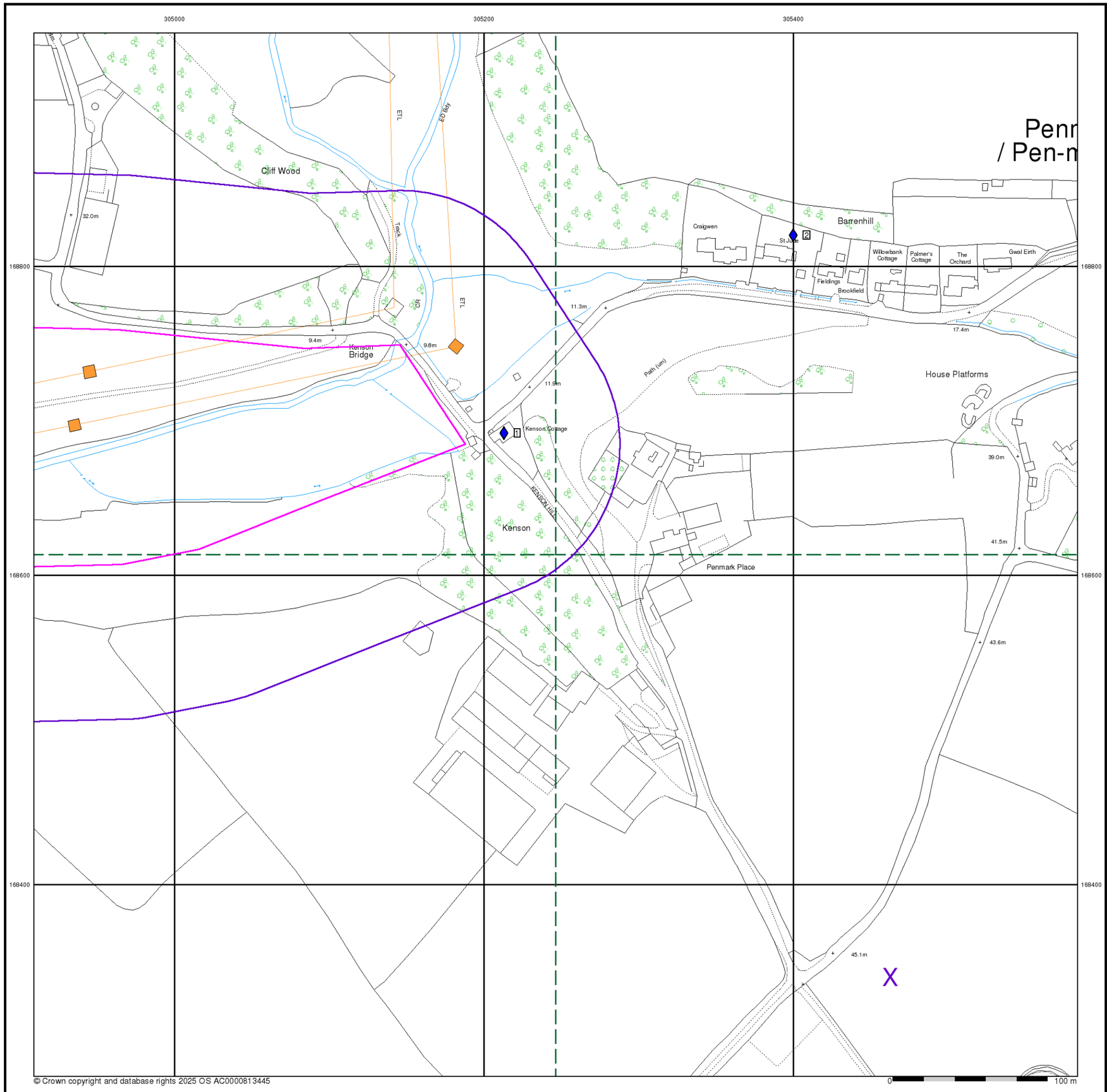

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LANDMARK INFORMATION GROUP®

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
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- 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

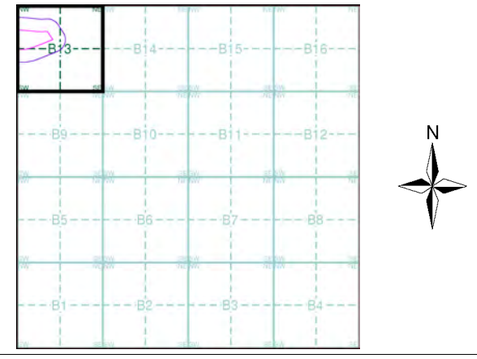
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment B13



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
Site Area (Ha):	40.66
Plot Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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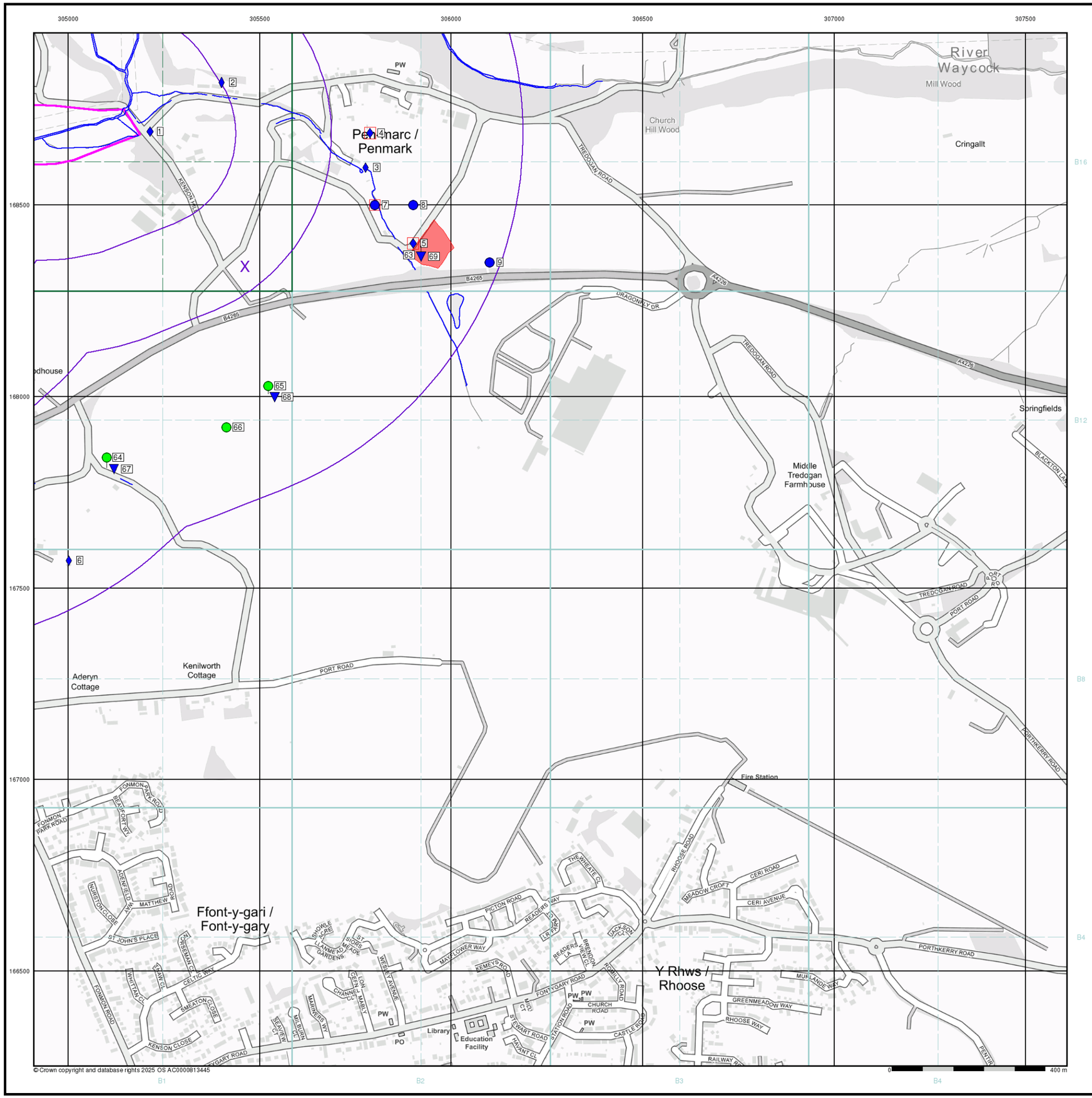
Web: www.envirocheck.co.uk



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LANDMARK INFORMATION GROUP®

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
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- River Network or Water Feature
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- EA Historic Landfill (Buffered Point)
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- Licensed Waste Management Facility (Landfill Boundary)
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- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
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- Registered Landfill Site
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- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

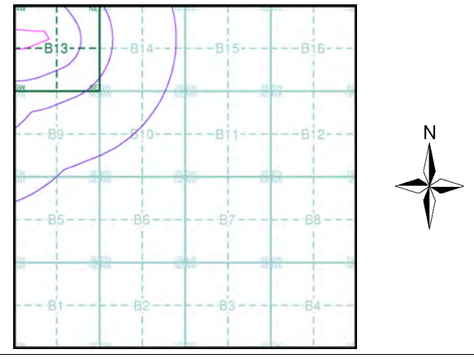
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Slice B



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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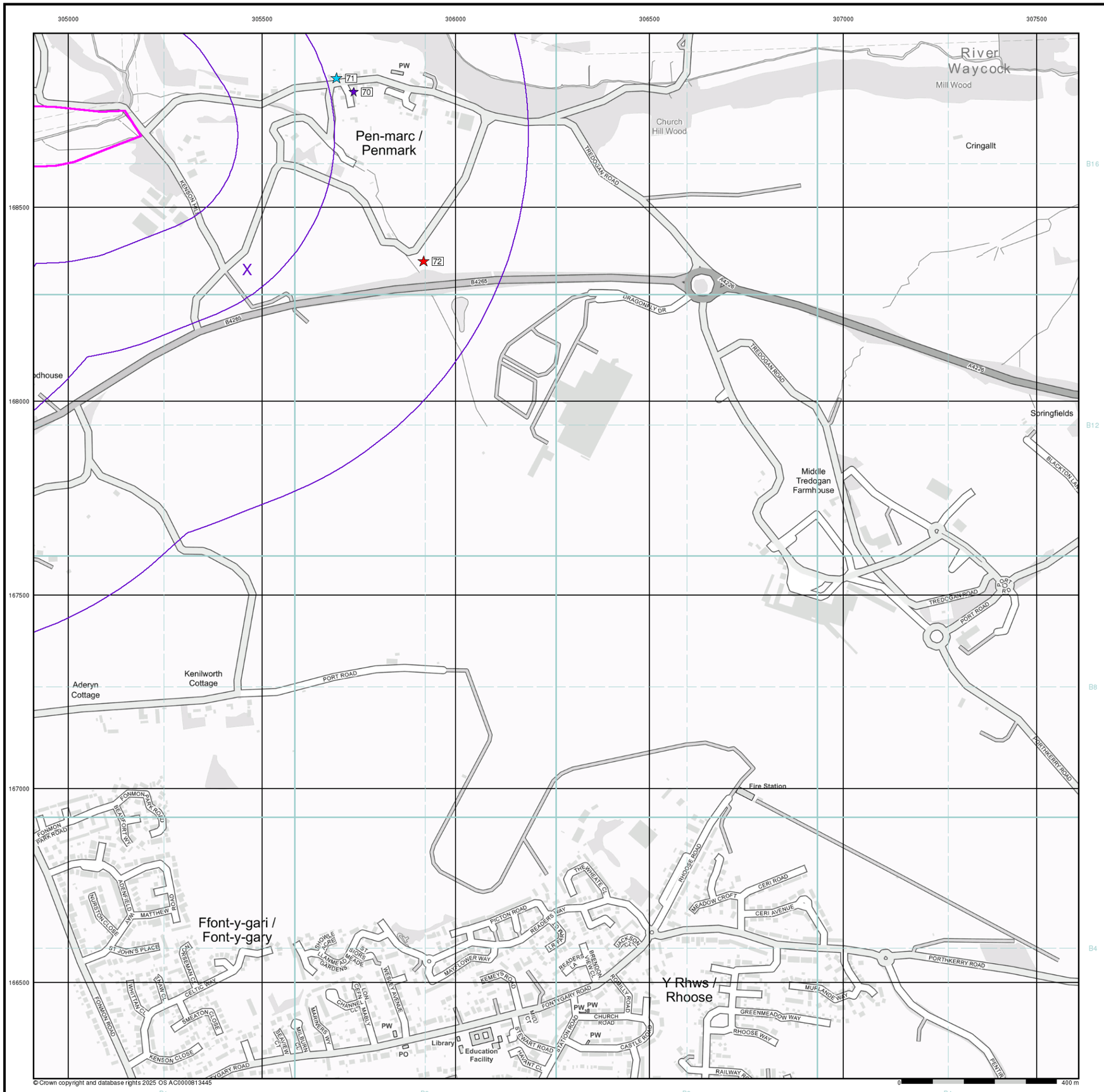

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Industrial Land Use Map

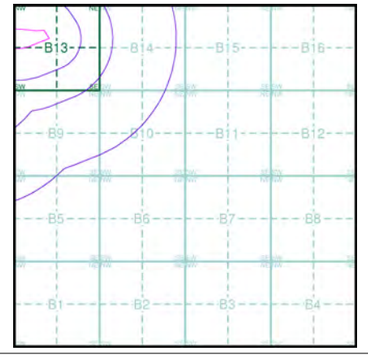
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- 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 B



Order Details

Order Number:	367701071_1_1
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Slice:	B
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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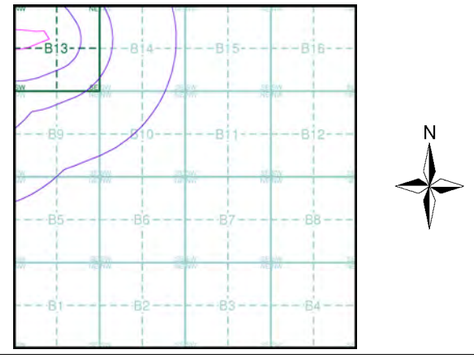
General

- 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 B



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Slice:	B
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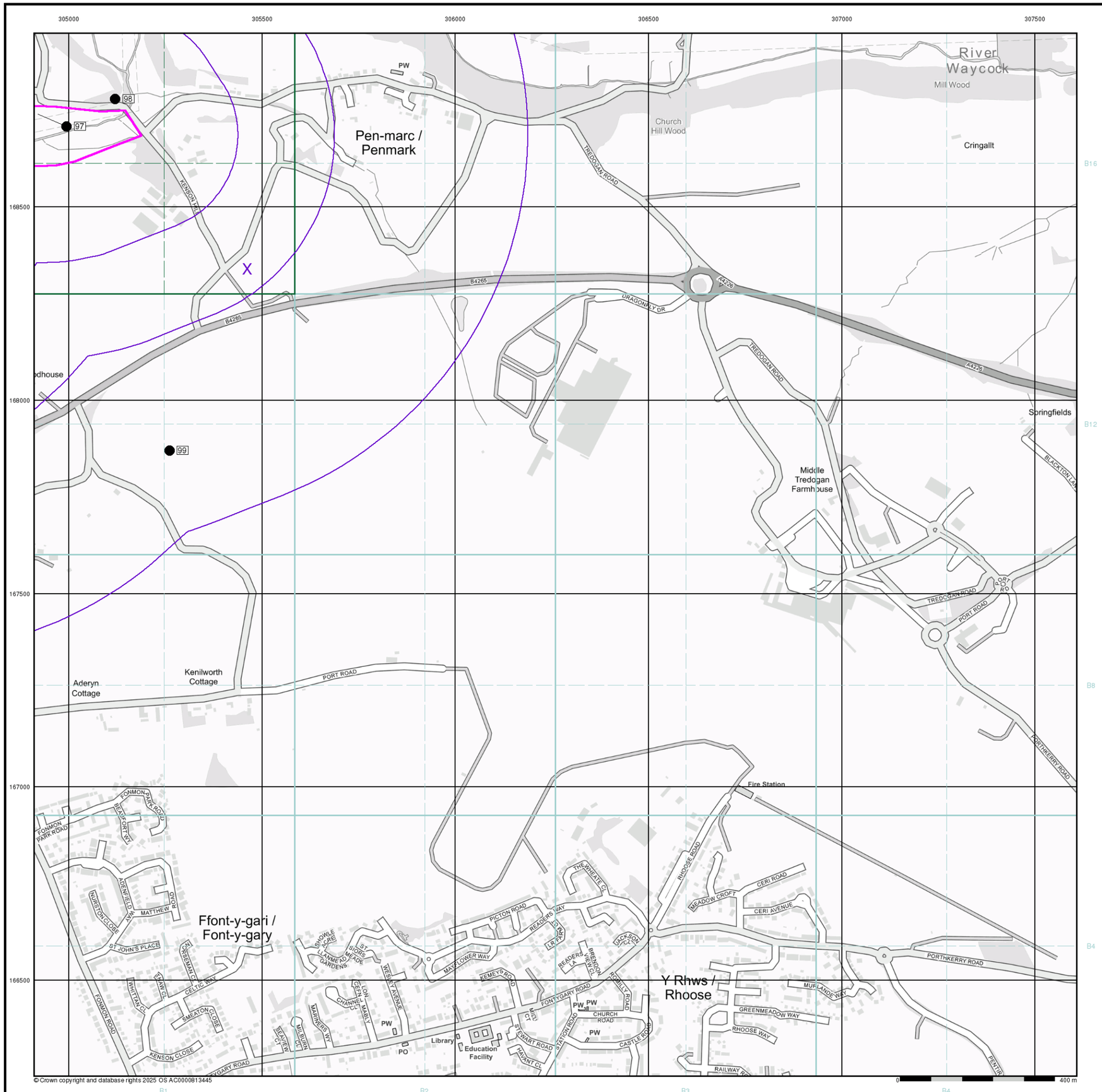

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LANDMARK INFORMATION GROUP®

General

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

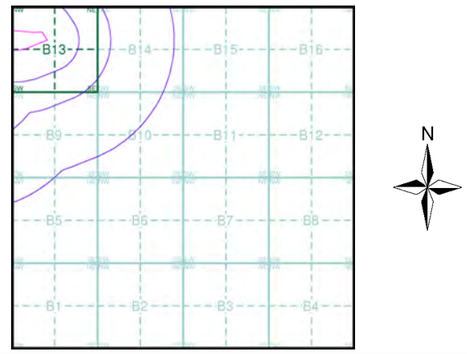
Agency and Hydrological (Boreholes)

- 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 B



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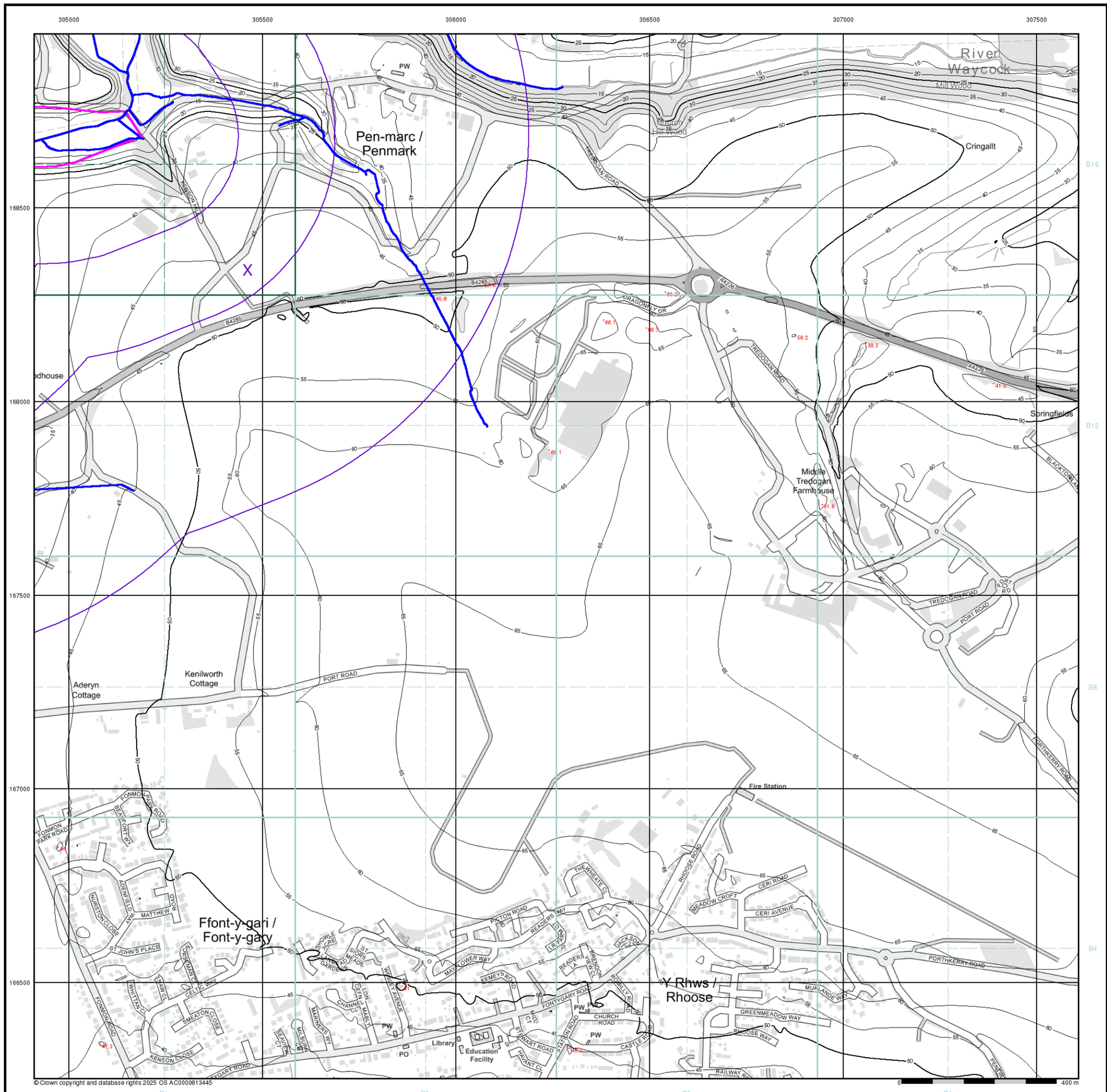

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Envirocheck®

LANDMARK INFORMATION GROUP®

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)

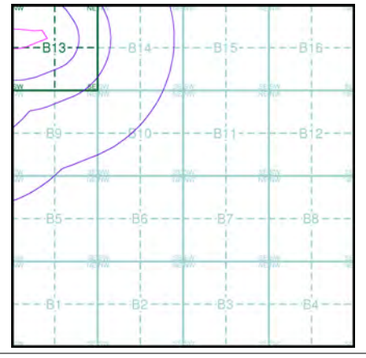
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice B



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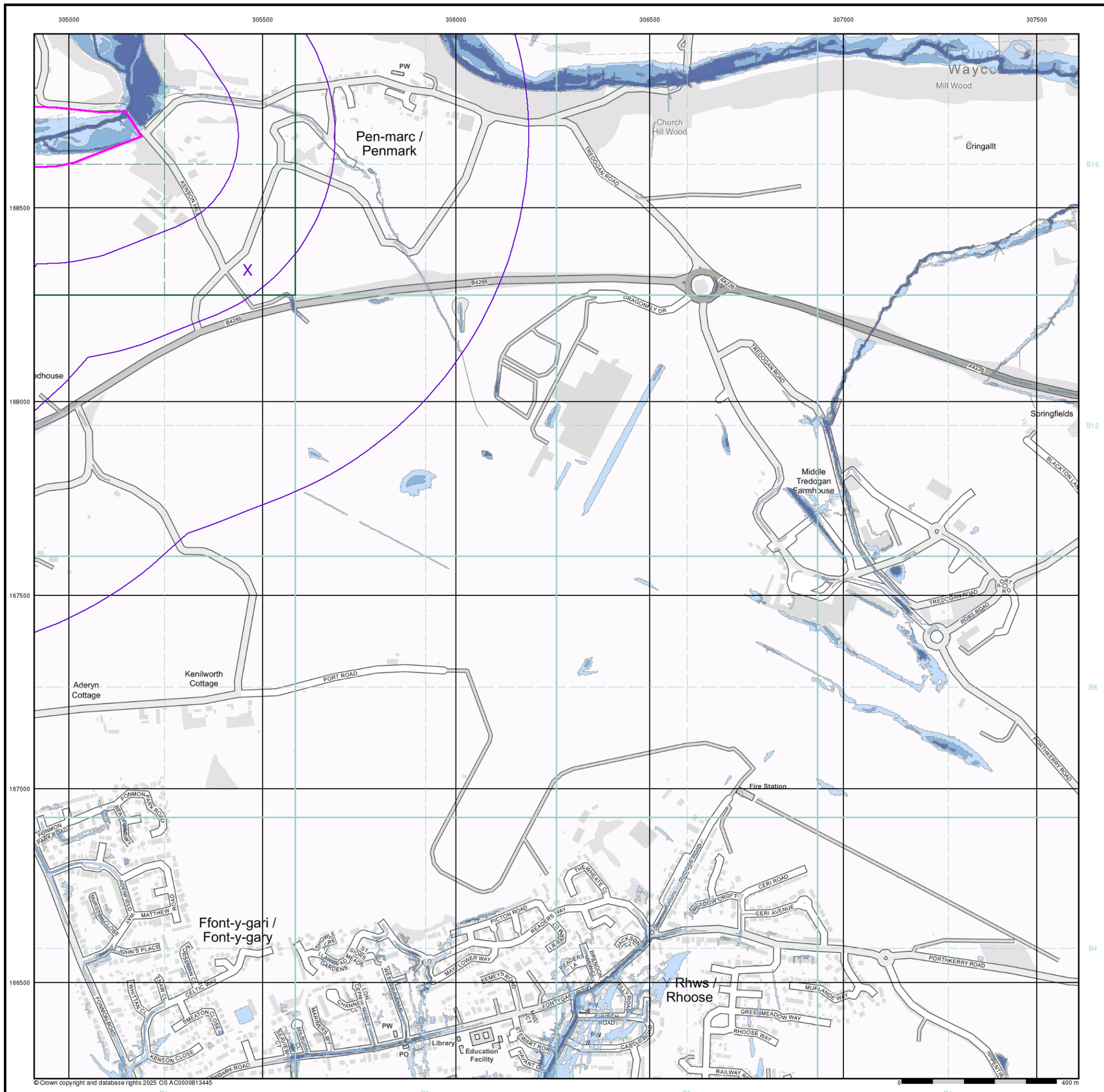
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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General

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

Risk of Flooding from Surface Water

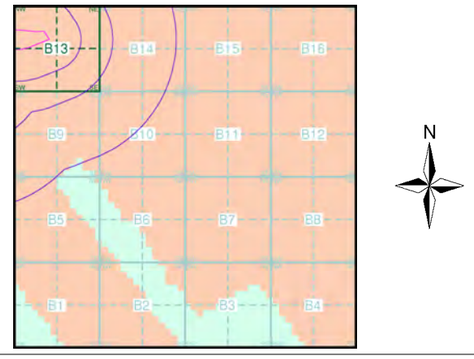
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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 B



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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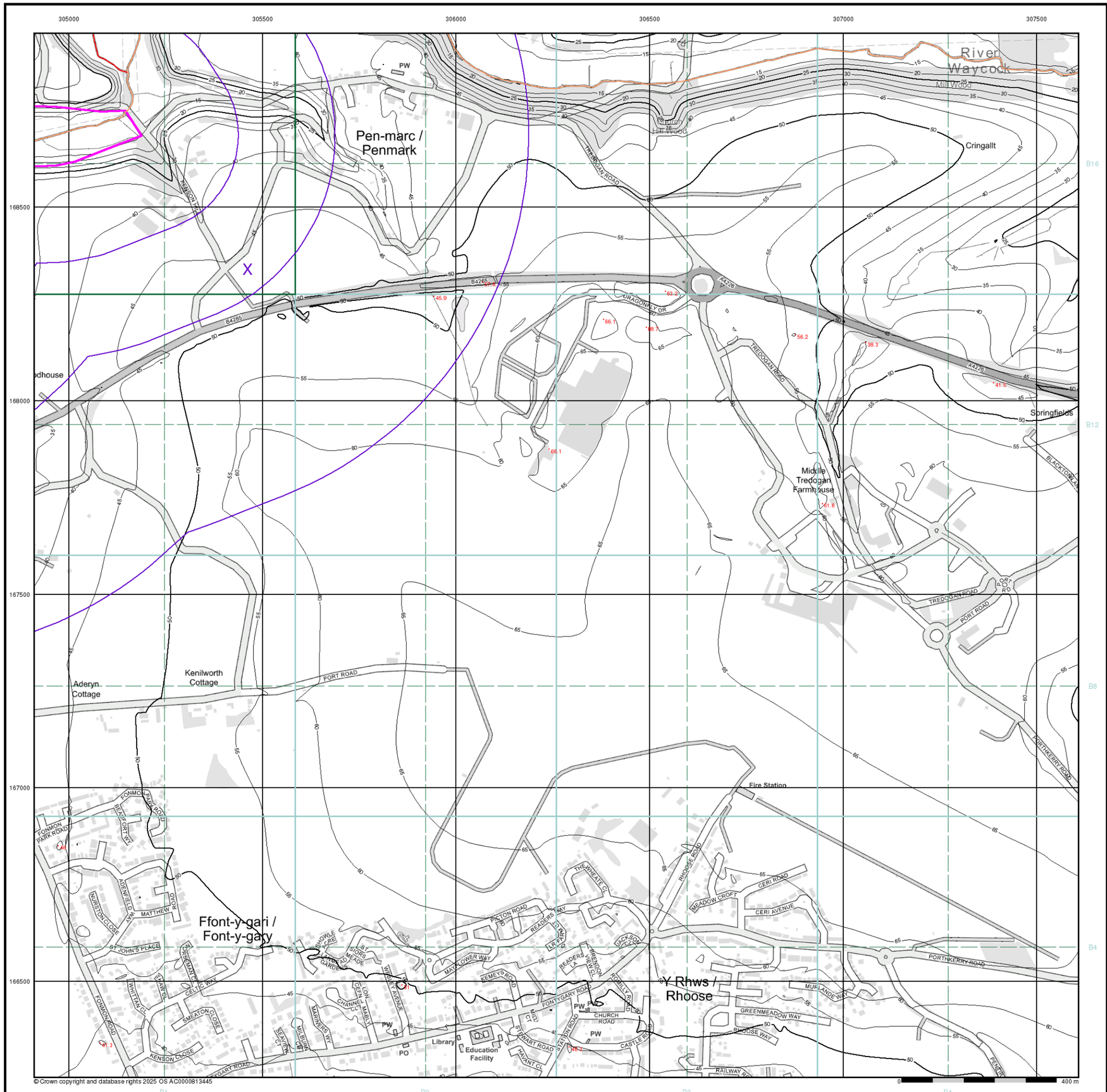

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WFD Surface Waters Map

General

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

Slice | Map ID

Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

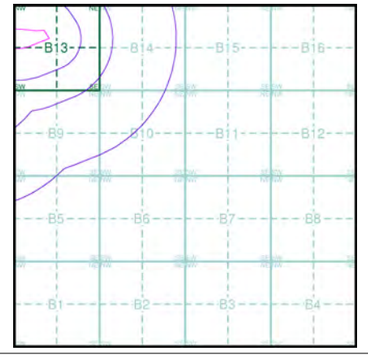
Contours (height in meters)

Standard Contour | Master Contour | Spot Height 167.3

MLW Mean Low Water

MHW Mean High Water

WFD Surface Waters Map - Slice B



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
Site Area (Ha):	40.66
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Site Details

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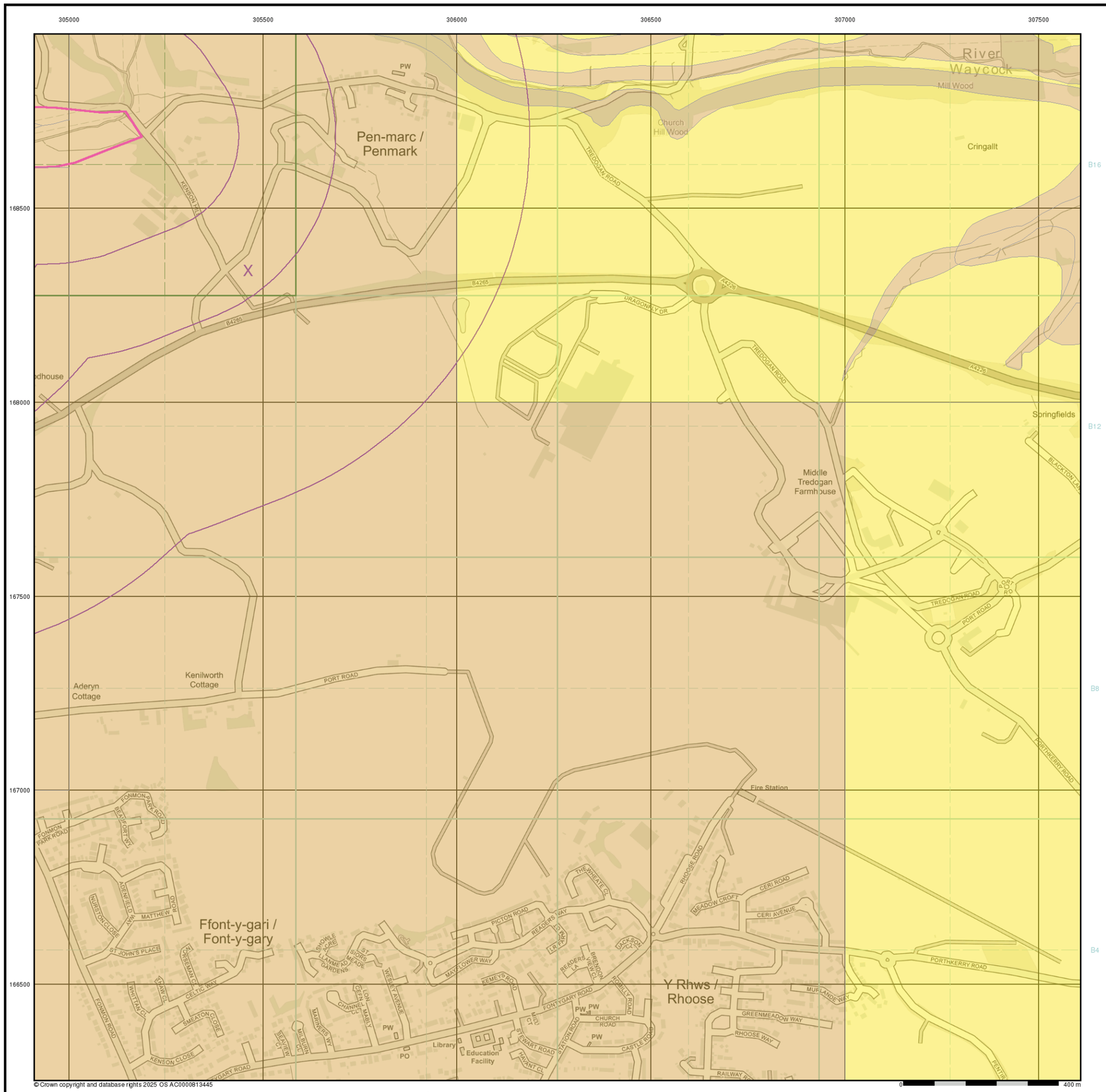

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LANDMARK INFORMATION GROUP

General

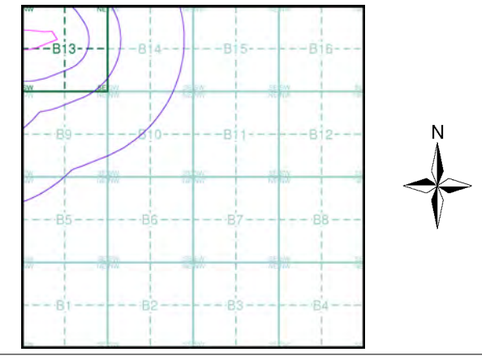
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 B



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Search Buffer (m):	1000

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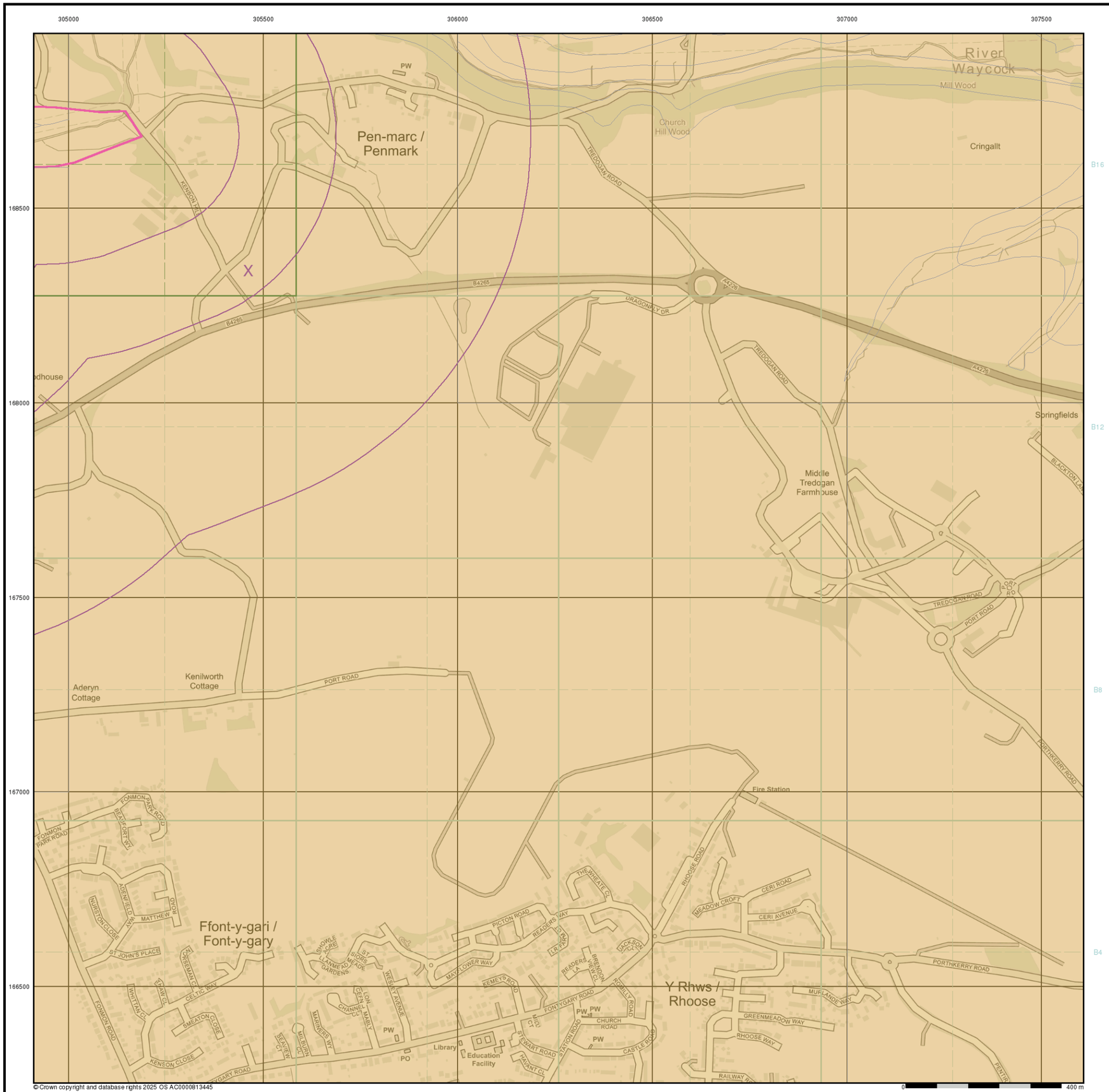

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General

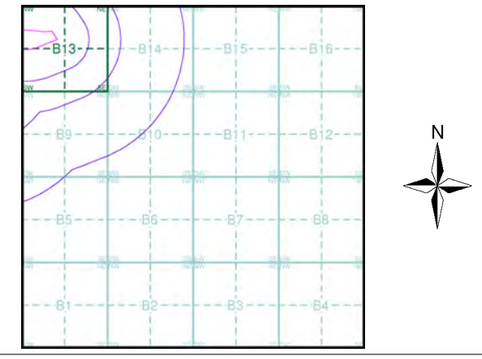
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 B



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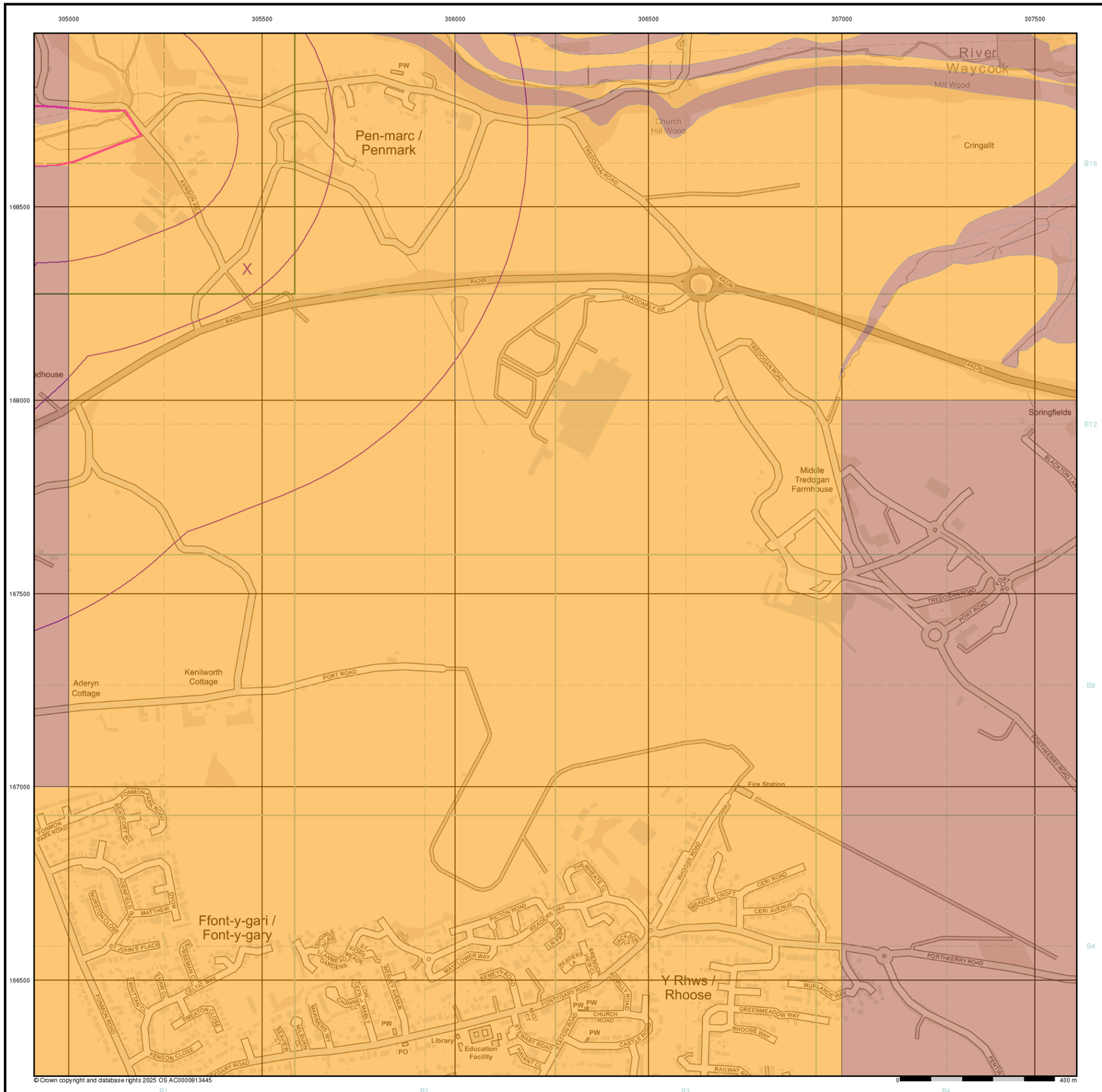

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General

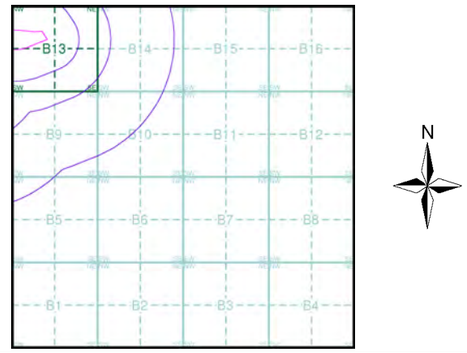
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 B



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General

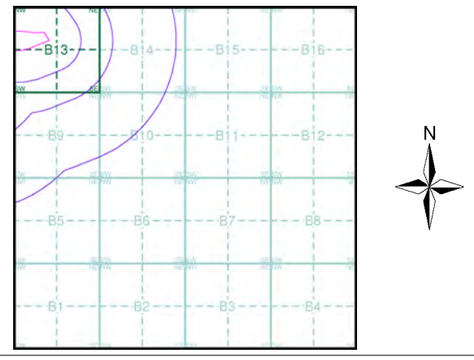
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 B



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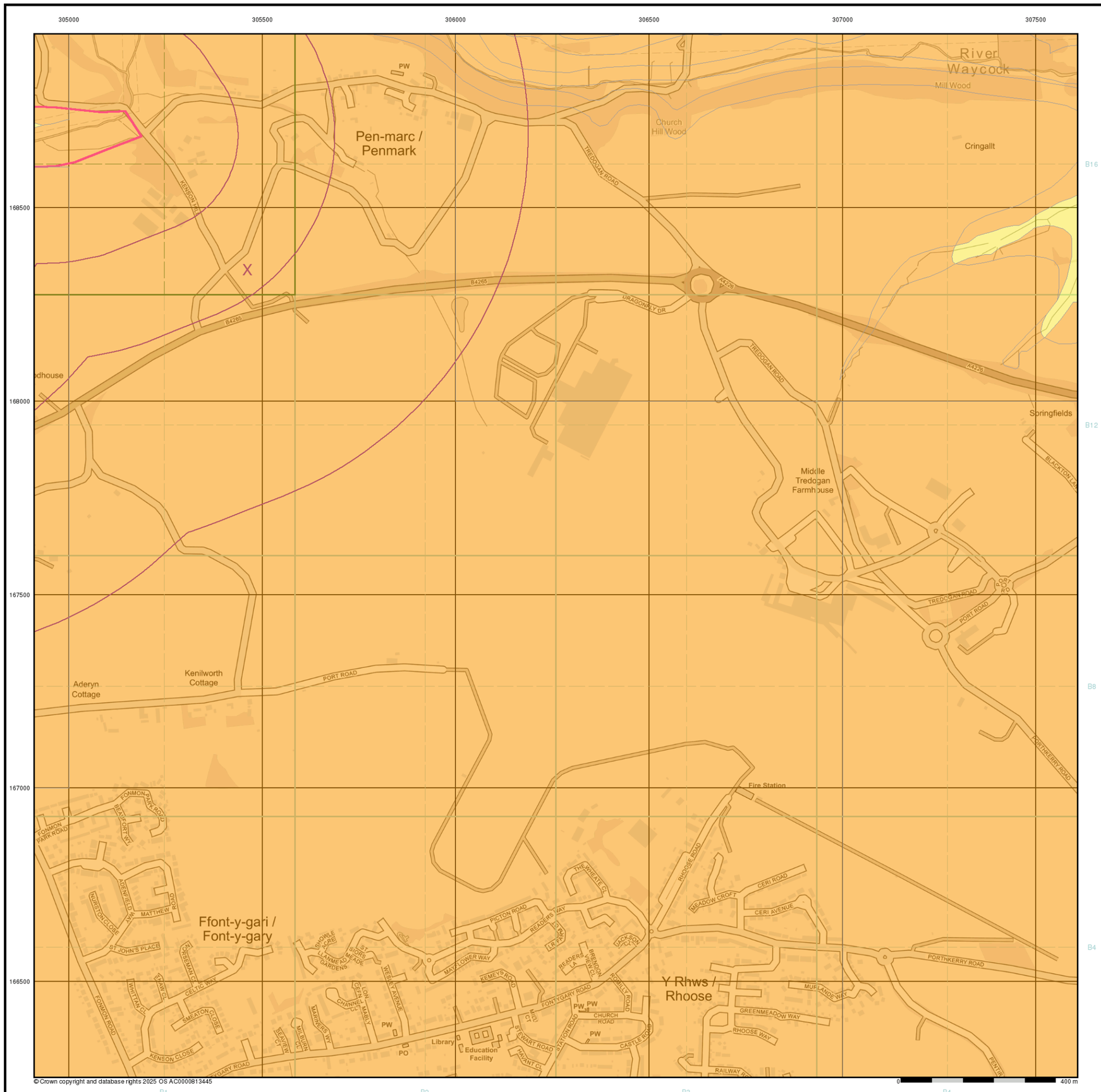

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General

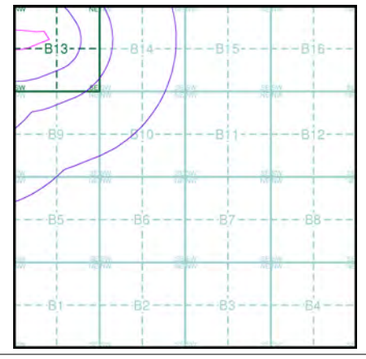
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 B



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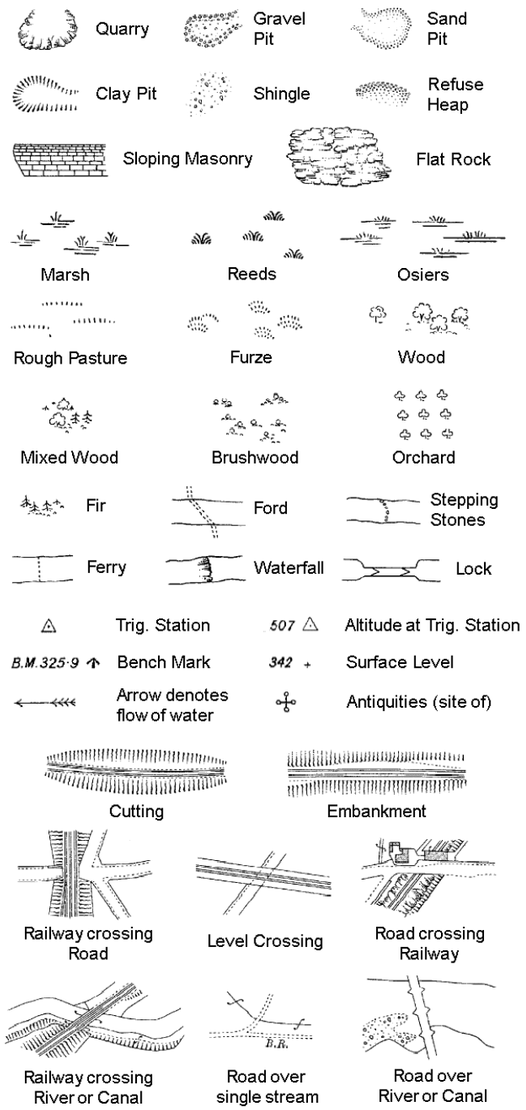
Historical Mapping Legends

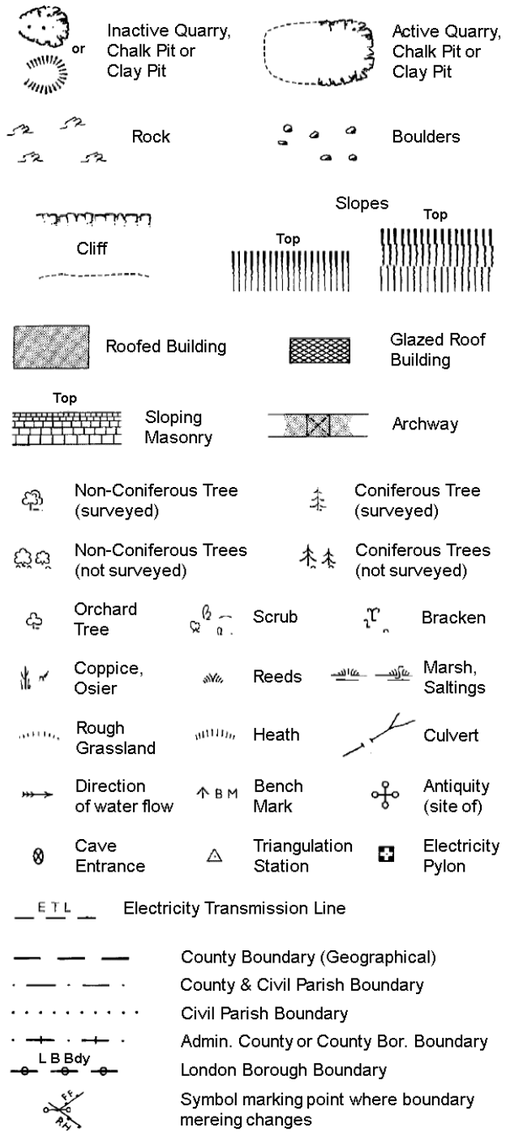
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	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

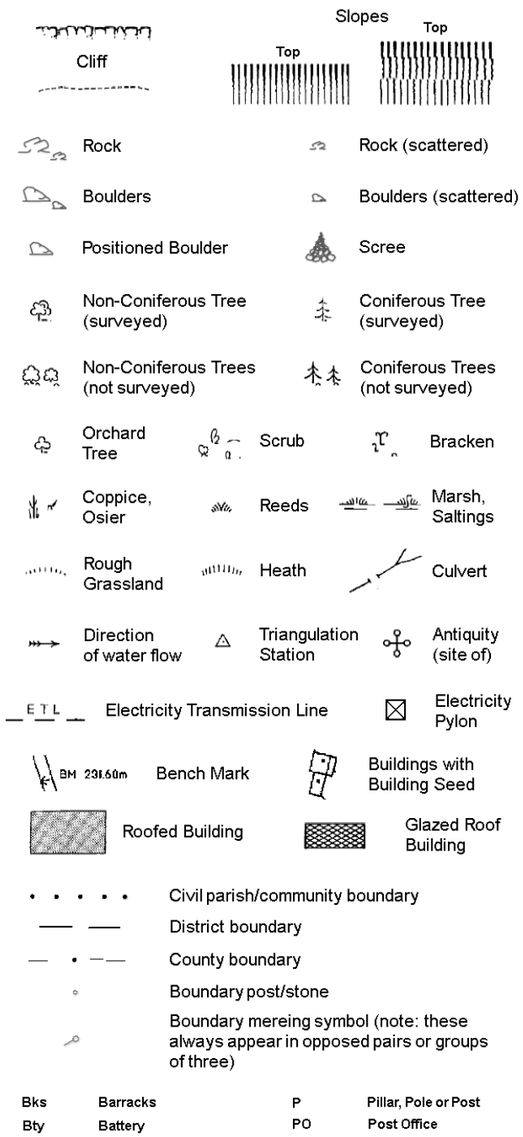
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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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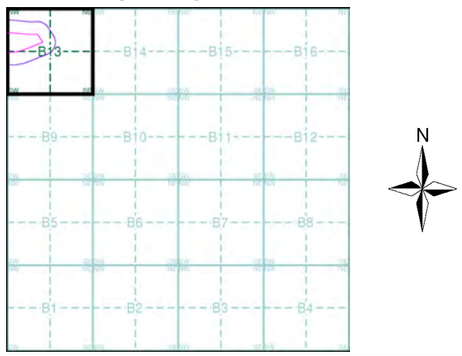
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1879	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1919 - 1920	4
Glamorganshire	1:2,500	1943	5
Ordnance Survey Plan	1:2,500	1973	6
Additional SIMs	1:2,500	1977	7
Additional SIMs	1:2,500	1987	8
Additional SIMs	1:2,500	1992	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:2,500	1993	11
Large-Scale National Grid Data	1:2,500	1994	12
Historical Aerial Photography	1:2,500	2000	13

Historical Map - Segment B13



Order Details

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Customer Ref: 2025s0023
National Grid Reference: 305460, 168340
Slice: B
Site Area (Ha): 40.66
Search Buffer (m): 100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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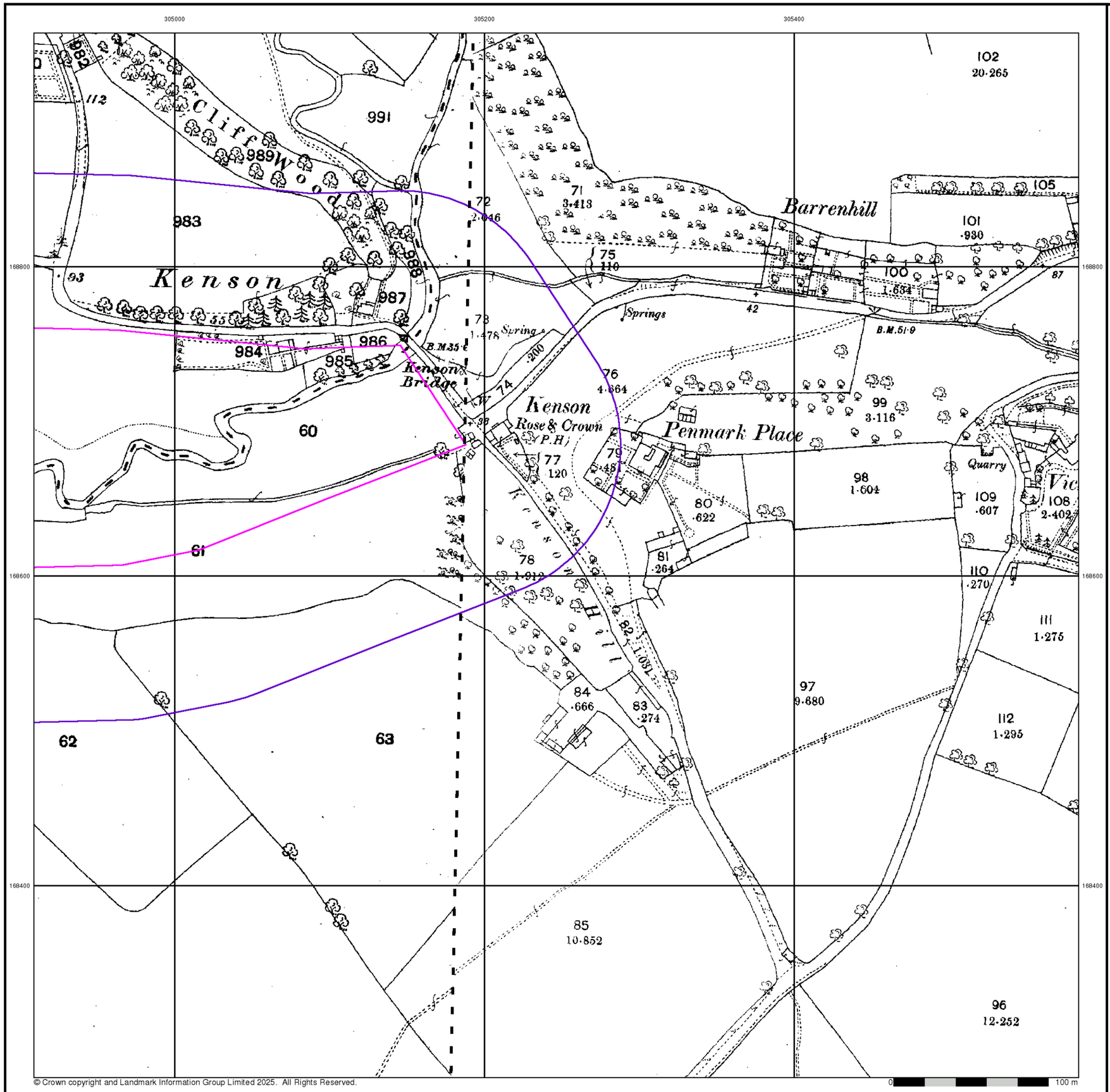
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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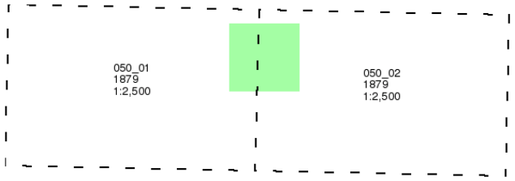
Glamorganshire

Published 1879

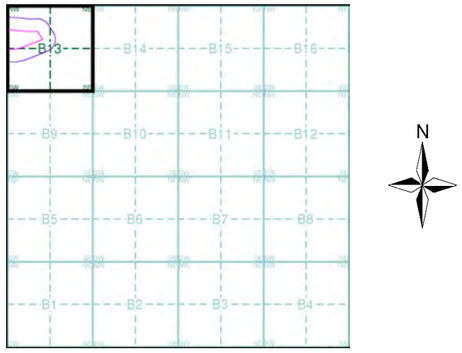
Source map scale - 1:2,500

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 B13



Order Details

Order Number:	367701071_1_1
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National Grid Reference:	305460, 168340
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Search Buffer (m):	100

Site Details

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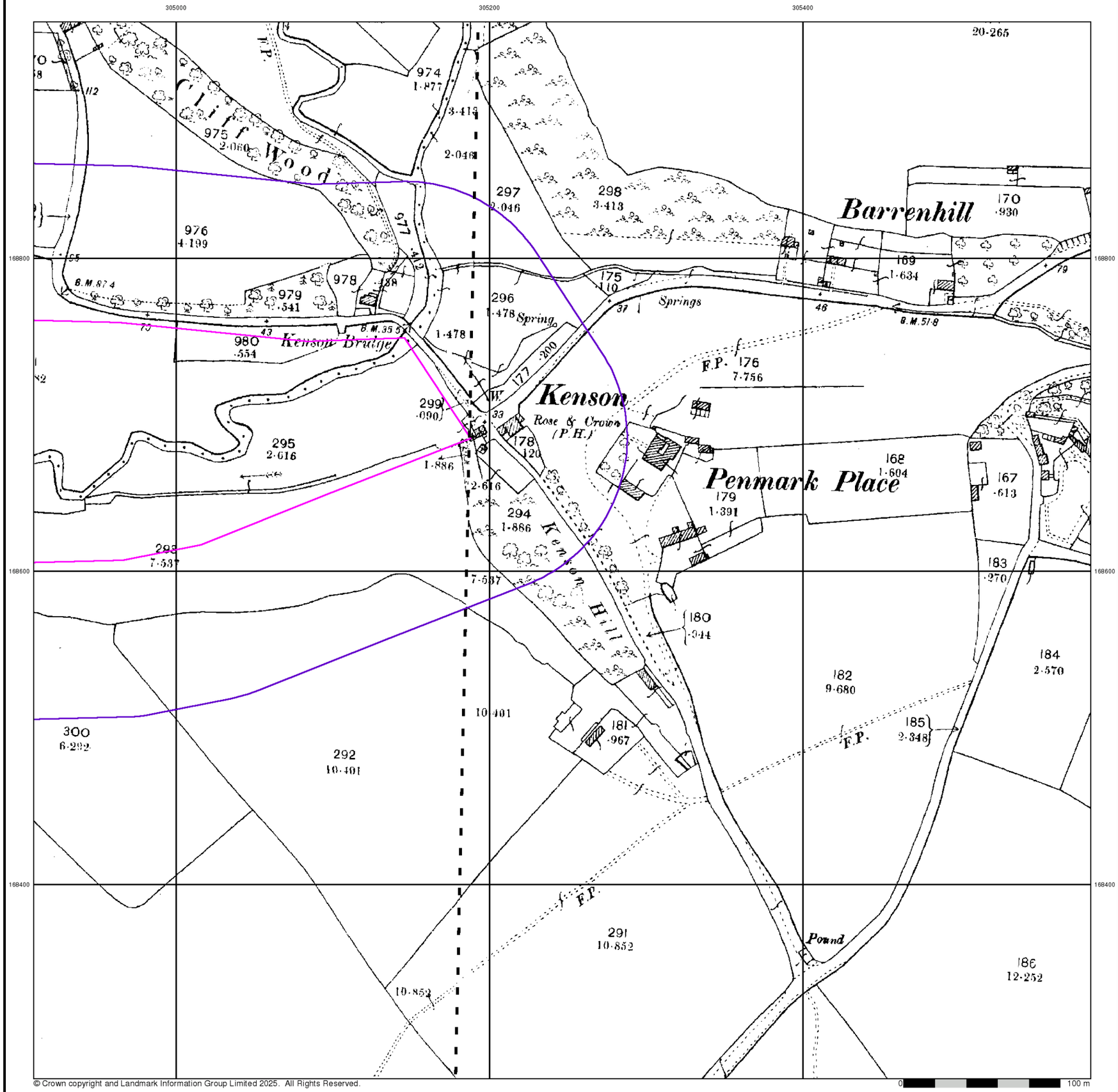

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Glamorganshire

Published 1900

Source map scale - 1:2,500

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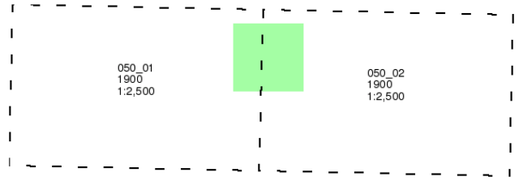
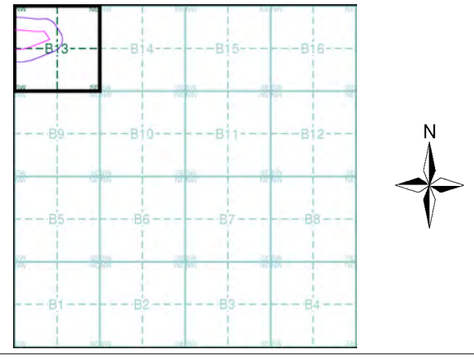


Historical Map - Segment B13



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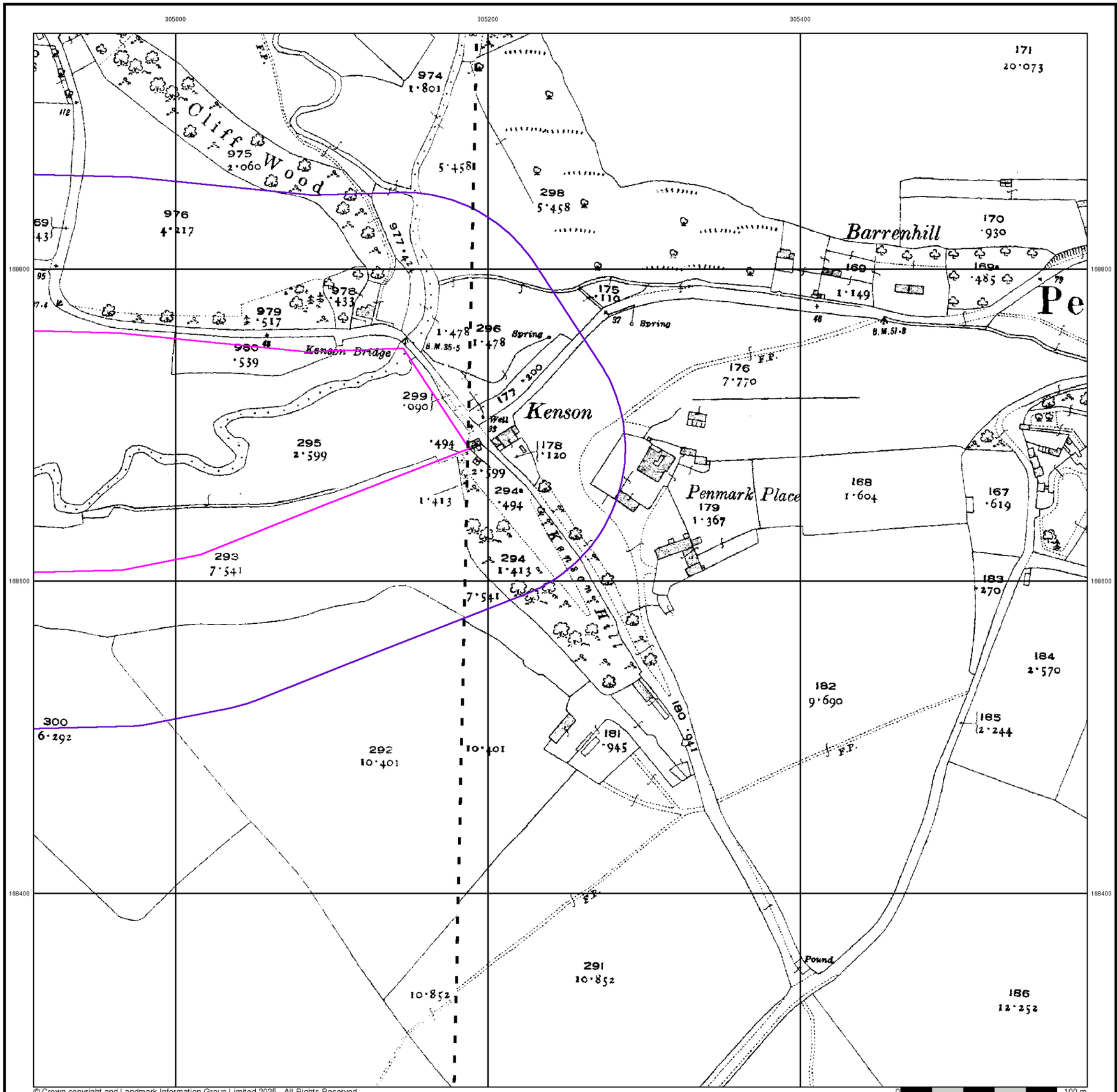

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Glamorganshire

Published 1919 - 1920

Source map scale - 1:2,500

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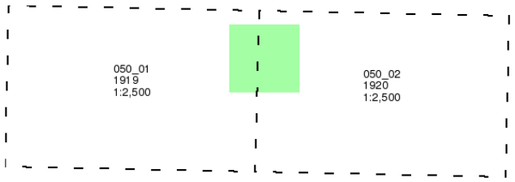
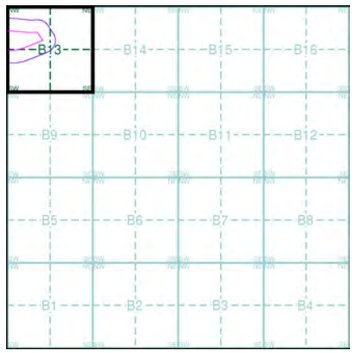


Historical Map - Segment B13



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Site Details

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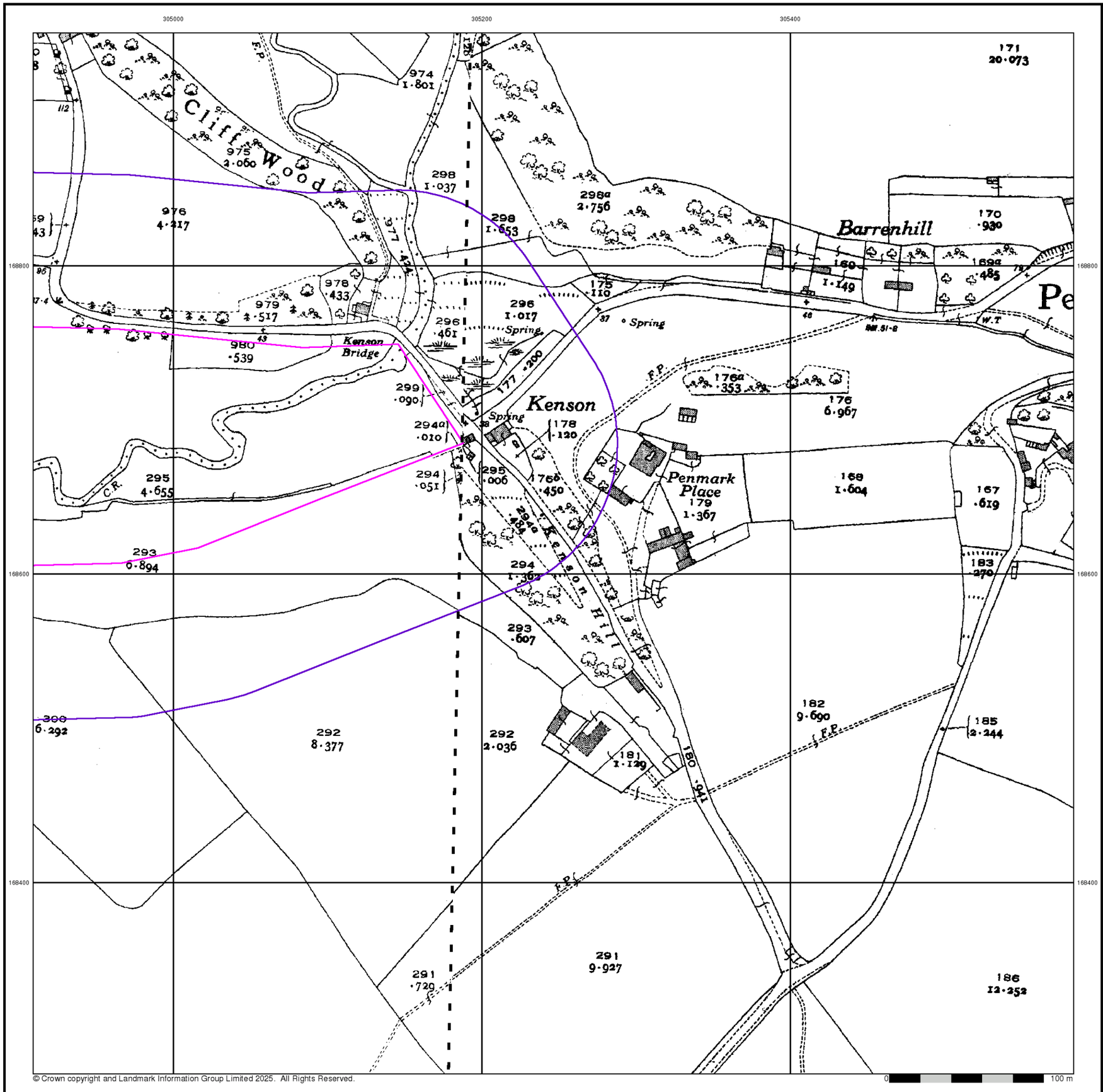

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Glamorganshire

Published 1943

Source map scale - 1:2,500

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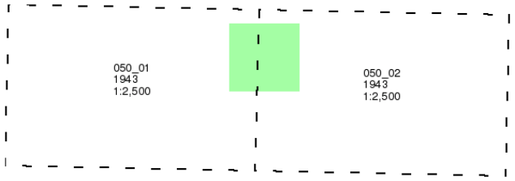
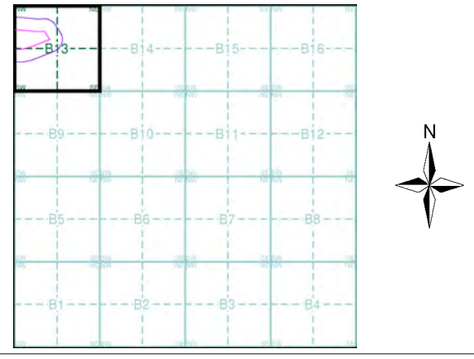


Historical Map - Segment B13



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Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305460, 168340
Slice:	B
Site Area (Ha):	40.66
Search Buffer (m):	100

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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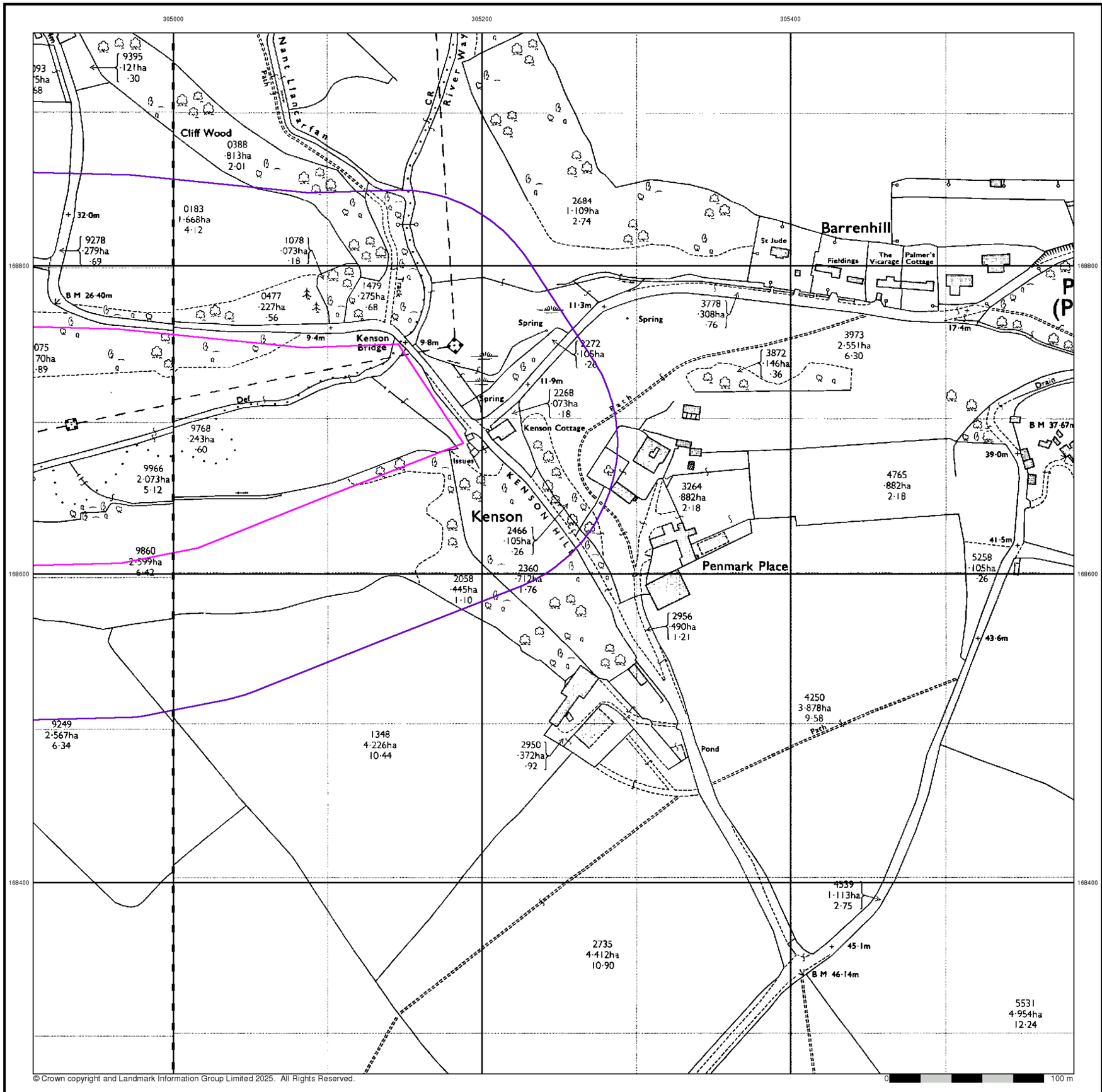

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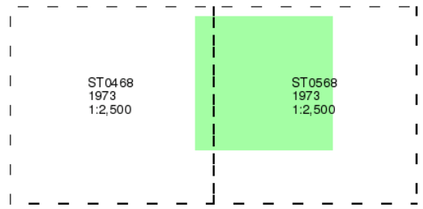
Ordnance Survey Plan

Published 1973

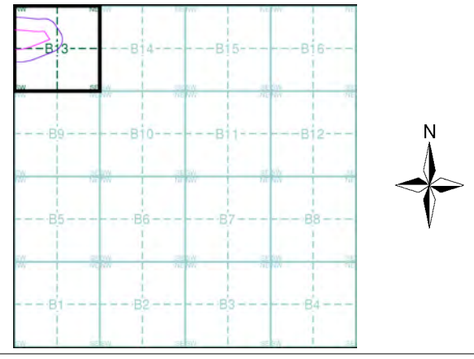
Source map scale - 1:2,500

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 B13



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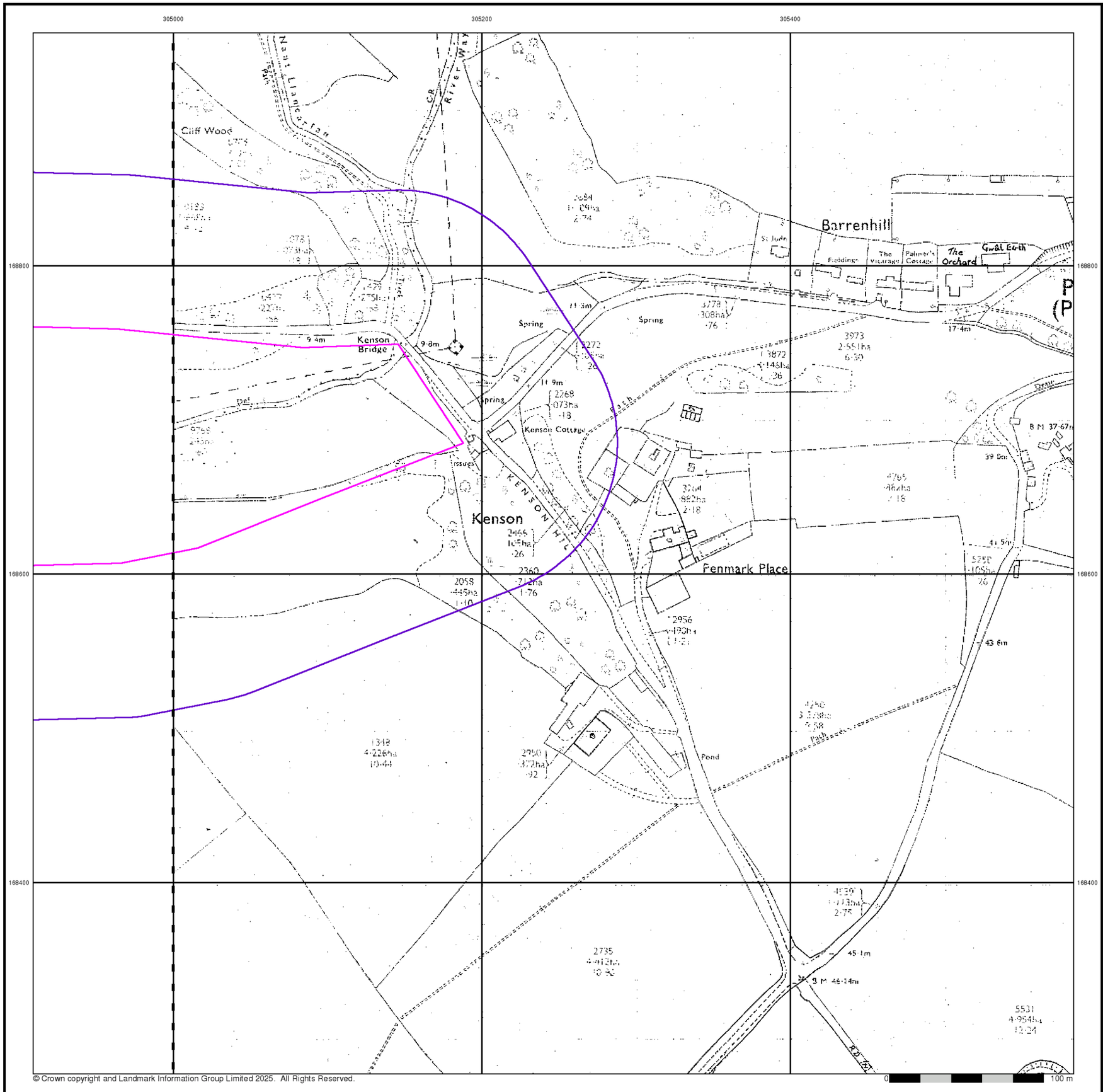

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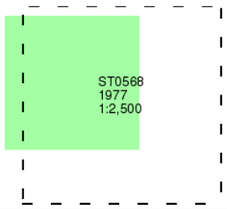
Additional SIMs

Published 1977

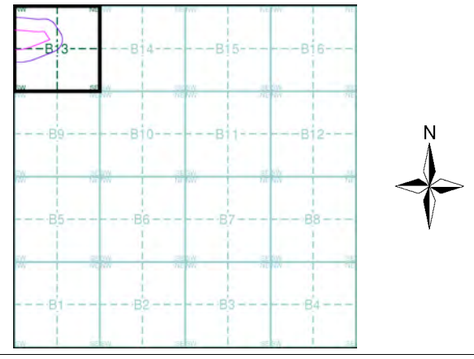
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment B13



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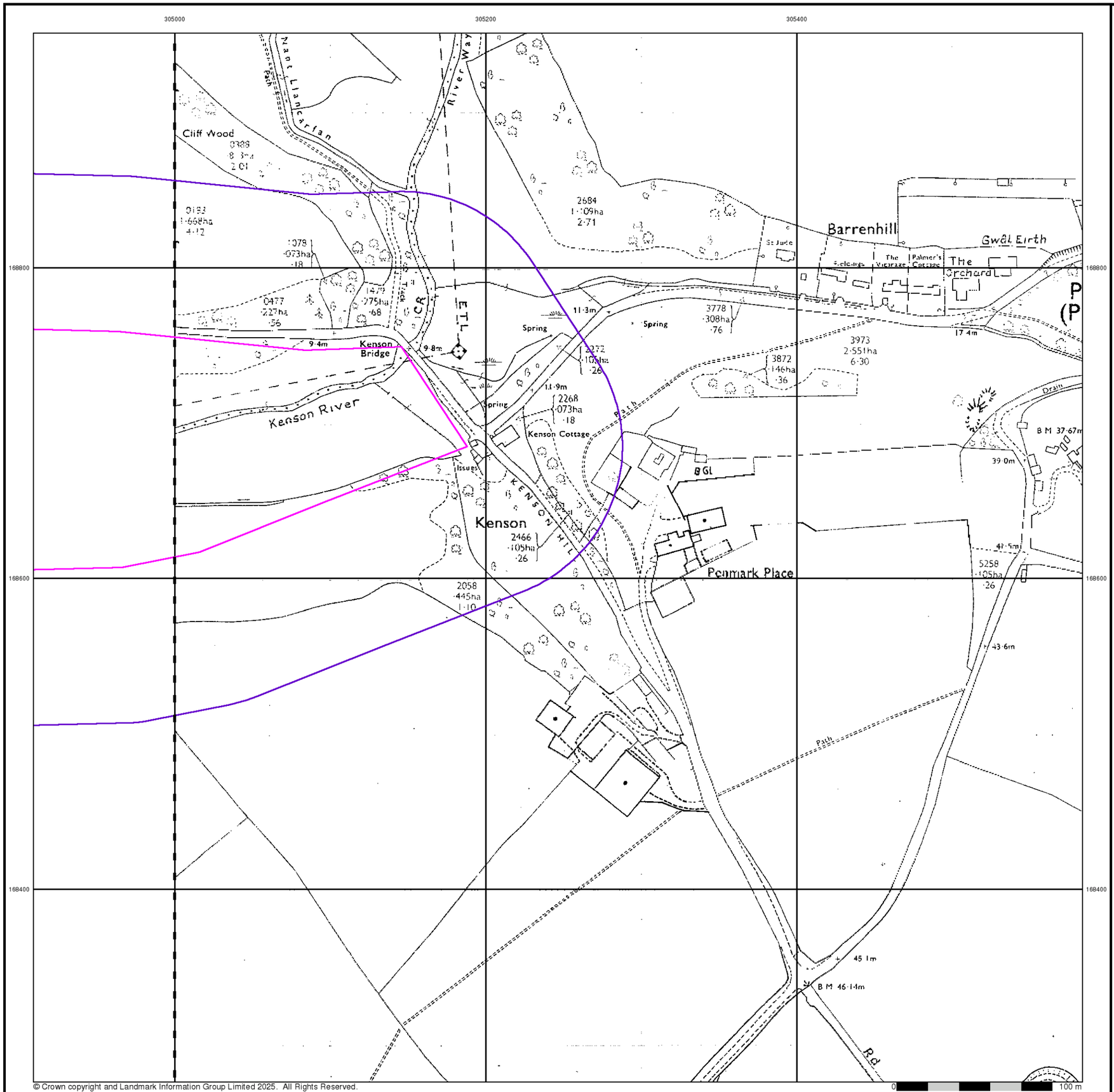

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Additional SIMs

Published 1987

Source map scale - 1:2,500

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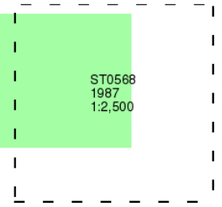
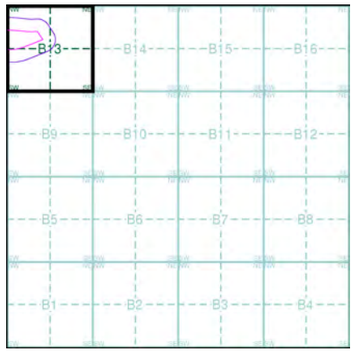


Historical Map - Segment B13



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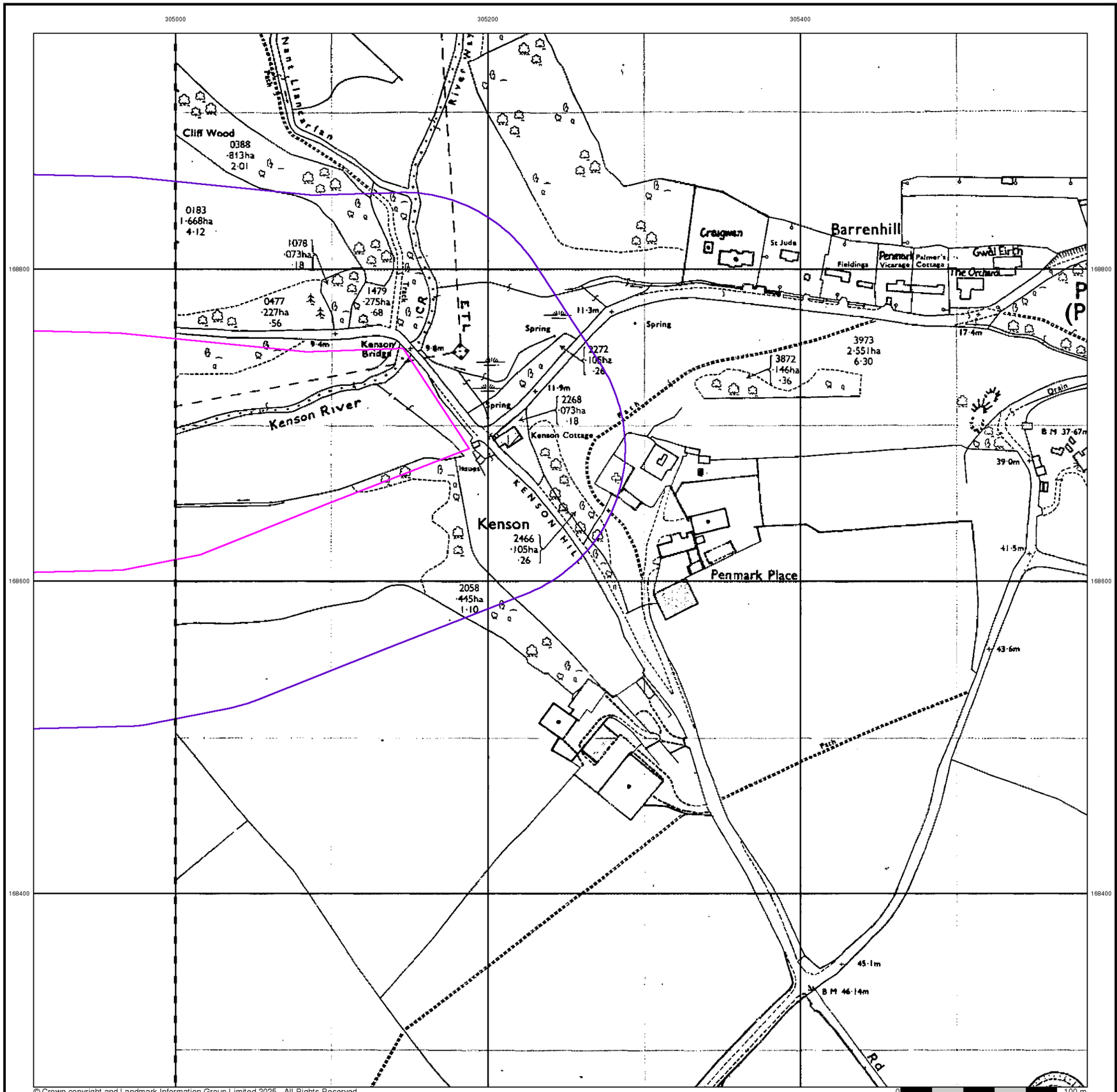

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Additional SIMs

Published 1992

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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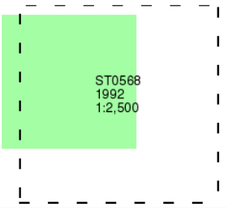
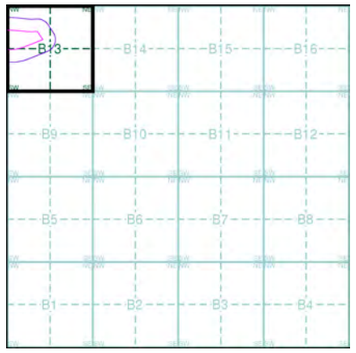


Historical Map - Segment B13



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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.

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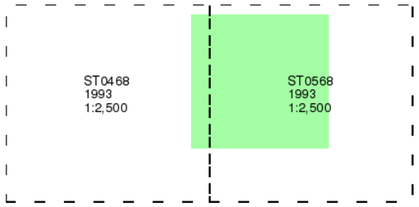
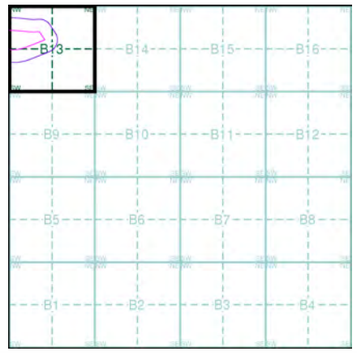


Historical Map - Segment B13



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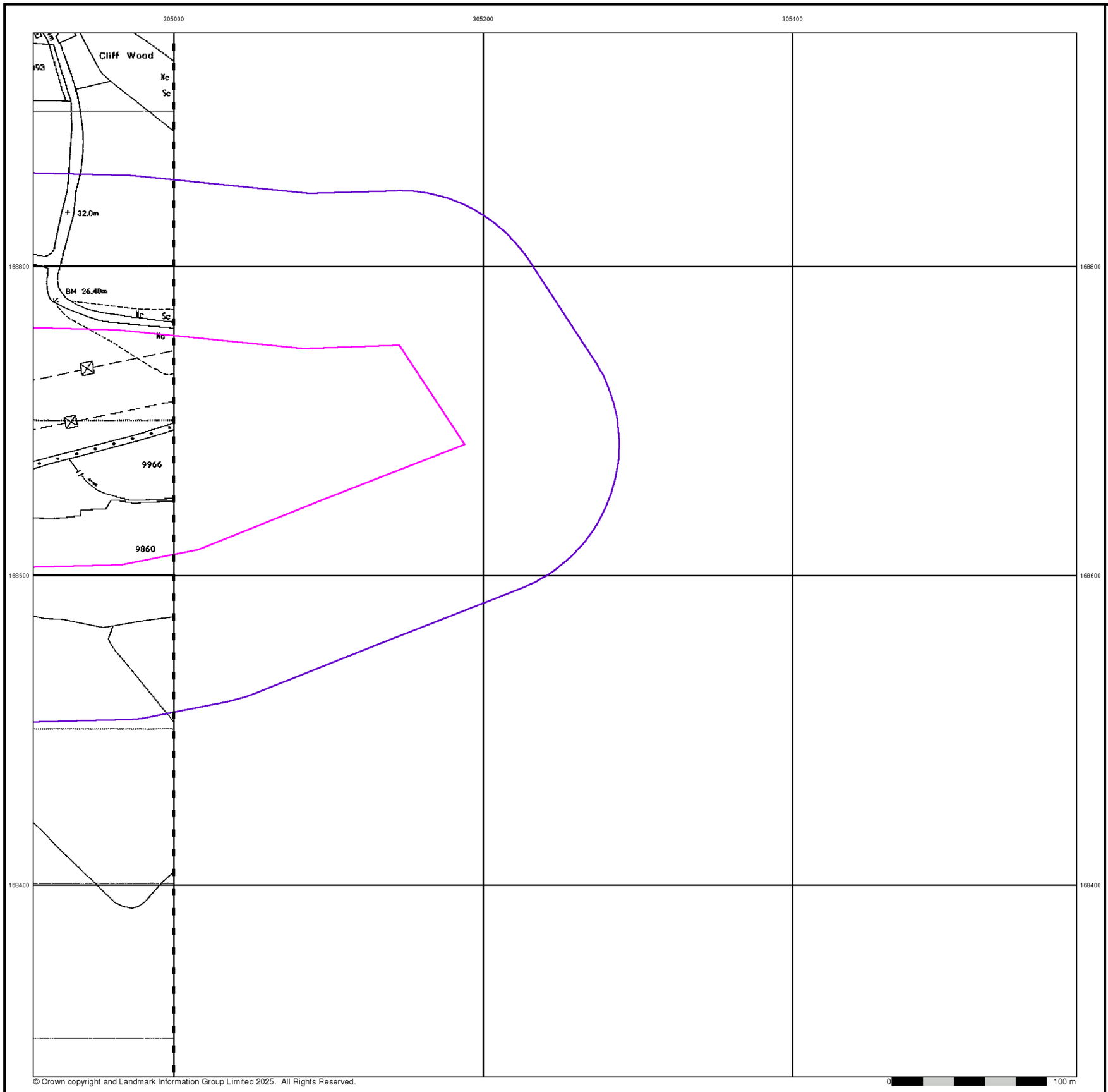

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Large-Scale National Grid Data

Published 1993

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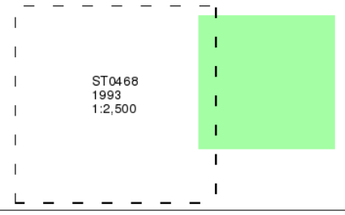
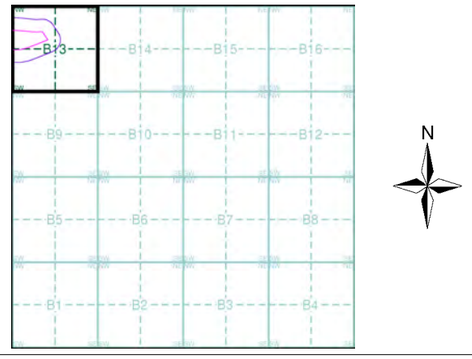


Historical Map - Segment B13



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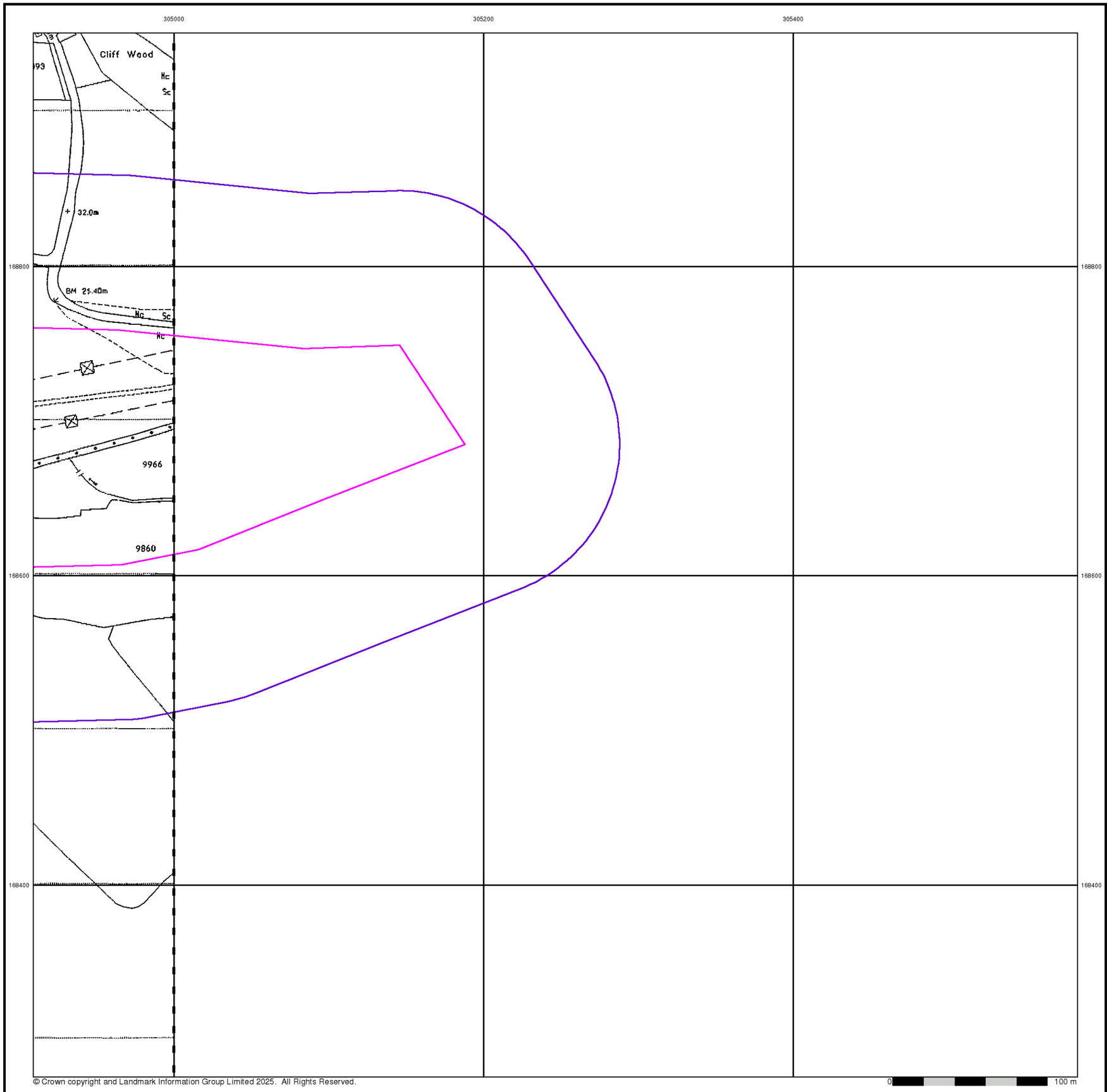

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Large-Scale National Grid Data

Published 1994

Source map scale - 1:2,500

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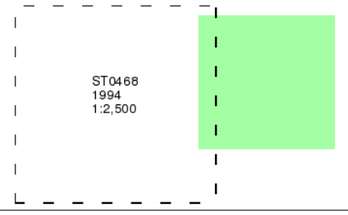
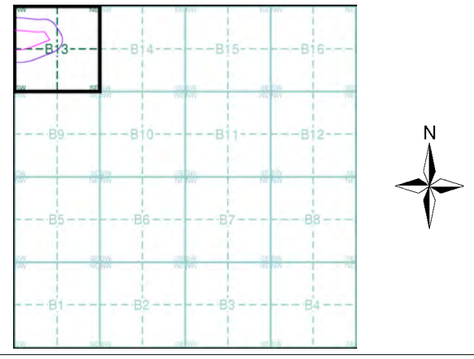


Historical Map - Segment B13



Order Details

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Slice:	B
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Site Details

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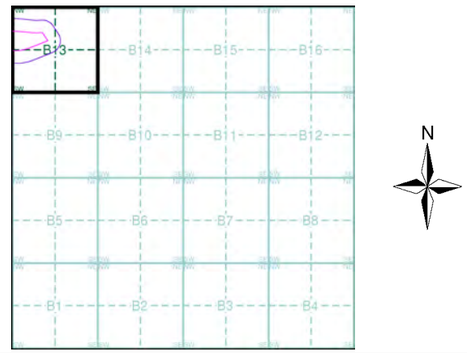
Historical Aerial Photography

Published 2000

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 B13



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Search Buffer (m):	100

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Datasheet

Order Details:

Order Number:
367701071_1_1

Customer Reference:
2025s0023

National Grid Reference:
304170, 169260

Slice:
C

Site Area (Ha):
40.66

Search Buffer (m):
1000

Site Details:

Site at
Llancadle/Llancatal
The Vale of Glamorgan

Client Details:

Miss A Atkins
JBA Consulting
Salt Mill
Saltaire
West Yorkshire
BD18 3LF

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Introduction

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

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England. The probability result is only valid for properties above ground. All basement and cellar areas are considered to be at additional risk from high radon levels. If an underground room such as a cellar or basement makes up part of the living or working accommodation, the property should be tested regardless of Radon Affected Area status.

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Contents

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Summary

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Prosecutions					
Enforcement and Prohibition Notices					
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Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3				Yes
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Groundwater Vulnerability Map	pg 4	Yes	n/a	n/a	n/a
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Flooding from Rivers or Sea without Defences	pg 6	Yes		n/a	n/a
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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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Planning Hazardous Substance Consents					
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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
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Mining Instability			n/a	n/a	n/a
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Potential for Landslide Ground Stability Hazards	pg 10	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 10	Yes		n/a	n/a
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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
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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: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	303700 168350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	0	1	304000 168400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	0	1	304200 168400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	0	1	305150 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	0	1	304250 168400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	304850 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	305000 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	305050 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	304750 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	0	1	304900 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	304950 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	304700 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	304650 168550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	0	1	305000 168900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	0	1	304168 168500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	0	1	304300 168500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	0	1	304500 168500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C3SE (W)	0	1	304168 169259
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SE)	0	1	304650 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(E)	0	1	305000 169200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	1	1	305000 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	2	1	305100 168800

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	(SE)	14	1	304600 168350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	19	1	305200 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SE)	48	1	304650 168350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	83	1	304700 168350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	106	1	305250 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	115	1	305200 168900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	116	1	305250 168850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SE)	118	1	304700 168300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	130	1	305300 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	144	1	305000 168950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	157	1	305300 168850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	175	1	305350 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	209	1	305200 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	222	1	305400 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	241	1	304950 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	249	1	305050 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	252	1	305100 169100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(E)	257	1	305200 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	263	1	305450 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(E)	271	1	305450 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	272	1	305250 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	306	1	305200 169100

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	(E)	319	1	305250 169100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	352	1	305100 169150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	402	1	305150 169200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	405	1	305200 169200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C2NW (W)	405	1	302950 169350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(E)	407	1	305350 169150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	415	1	305150 169350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	443	1	305000 169259
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	455	1	305200 169250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	484	1	303000 168350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(E)	499	1	305500 169150
	Nearest Surface Water Feature	C4SW (E)	544	-	304379 169208
1	**Water Abstractions** Operator: Messrs V J Thomas & Son Licence Number: 21/58/21/0019 Permit Version: 100 Location: Borehole At Pancross Farm (Point A) Authority: Natural Resources Wales Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Borehole (Pancross Farm) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th August 1991 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	C8SE (NE)	998	2	304780 169760
1	**Water Abstractions** Operator: Anthony Thomas Licence Number: 21/58/21/0019 Permit Version: Not Supplied Location: Pancross And Walterston Farms., Pancross Farm, Llancarfan, Barry, Vale Of Glamorgan, Cf62 3aj Authority: Natural Resources Wales Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C8SE (NE)	998	2	304780 169760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Water Abstractions** Operator: Anthony Thomas Licence Number: 21/58/21/0019 Permit Version: Not Supplied Location: Pancross And Walterston Farms., Pancross Farm, Llancarfan, Barry, Cf62 3aj Authority: Natural Resources Wales Abstraction: General Farming And Domestic Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 113.46 Yearly Rate (m3): 15909.1 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	C8SE (NE)	998	2	304780 169760
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(S)	0	2	304000 168389
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SE)	0	2	304624 168672
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SE)	0	2	304670 168660

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial 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: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(E)	0	2	305000 169000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(S)	0	2	304256 168384
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	C3SE (S)	0	2	304168 169000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(E)	0	2	305000 168965

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SE)	0	2	305000 168606
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(S)	0	2	304000 168272
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	C3SE (SW)	0	2	304000 169000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(E)	0	2	305000 169259
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	C3SE (W)	0	2	304168 169259
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(SE)	0	2	304670 168660
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(SE)	0	2	304624 168672
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(E)	0	2	305000 169181
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	C2NW (W)	246	2	303178 169445
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	(S)	0	2	304249 168485
	Areas Benefiting from Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Water Storage Areas None				
	Flood Defences None				
2	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 213.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	C2SW (W)	889	3	303003 168977
3	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	C2SW (W)	917	3	302919 168987
4	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	C2SW (W)	993	3	302919 168987
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 222.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	C2SW (W)	993	3	302990 169197
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Kenson - conf with Waycock to conf with Thaw WaterBody ID: GB110058021000 Operational Catchment: Thaw and Cadoxton Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	C3SE (SE)	0	2	304190 169230
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Llancarfan WaterBody ID: GB110058026410 Operational Catchment: Thaw and Cadoxton Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	C4NW (NE)	47	2	304410 169460
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Thaw WaterBody ID: GB110058026430 Operational Catchment: Thaw and Cadoxton Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	C3SE (W)	111	2	304168 169259
	Water Framework Directive - Groundwater Waterbody Name: Thaw & Cadoxtan Jurassic Lias Waterbody ID: GB41002G201400 URL Address: Not Available Overall Rating: Good Chemical Rating: Good Quantitative Measure: Good Year: 2023	C3SE (W)	0	2	304168 169259

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Vale Of Glamorgan County Borough Council - Has supplied landfill data		0	4	304168 169259
6	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	C4NW (NE)	732	-	304544 169456
7	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	C4NW (NE)	928	-	304387 169610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lias Group	C3SE (W)	0	1	304168 169259
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	(S)	0	1	304000 168389
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	C3SE (W)	0	1	304000 169259
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	C3SE (W)	0	1	304168 169259
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	C2NW (W)	424	1	302938 169352
8	**BGS Recorded Mineral Sites** Site Name: Middlecross Location: Llanbethery, Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161192 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	C4NE (E)	619	1	304616 169360
9	**BGS Recorded Mineral Sites** Site Name: Middlecross Location: Llanbethery, Barry, South Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 161196 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Porthkerry Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	C4NW (NE)	741	1	304538 169464

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3SE (W)	0	1	304168 169259
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SE)	0	1	304670 168660
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SE)	0	1	304670 168660
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3SE (W)	0	1	304168 169259
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3SE (W)	0	1	304168 169259
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3SE (W)	0	1	304168 169259
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3SE (W)	0	1	304168 169259
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(SE)	0	1	304670 168660
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SE)	0	1	304624 168672
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3SE (W)	0	1	304168 169259
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	C3SE (W)	0	1	304168 169259
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C3SE (W)	0	1	304168 169259

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Points of Interest - Manufacturing and Production** Name: Quarry (Disused) Location: CF62 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	C4NE (E)	638	5	304584 169370
10	**Points of Interest - Manufacturing and Production** Name: Quarry (Disused) Location: CF62 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	C4NW (E)	644	5	304553 169366
11	**Points of Interest - Manufacturing and Production** Name: Lime Kiln (Disused) Location: CF62 Category: Industrial Features Class Code: Lime Kilns Positional Accuracy: Positioned to an adjacent address or location	C4NW (NE)	923	5	304401 169610
11	**Points of Interest - Manufacturing and Production** Name: Limekiln (Disused) Location: CF62 Category: Industrial Features Class Code: Lime Kilns Positional Accuracy: Positioned to an adjacent address or location	C4NW (NE)	928	5	304387 169610
12	**Points of Interest - Manufacturing and Production** Name: Lime Kiln (Disused) Location: CF62 Category: Industrial Features Class Code: Lime Kilns Positional Accuracy: Positioned to an adjacent address or location	C3NW (W)	942	5	303824 169364
12	**Points of Interest - Manufacturing and Production** Name: Limekiln (Disused) Location: CF62 Category: Industrial Features Class Code: Lime Kilns Positional Accuracy: Positioned to an adjacent address or location	C3NW (W)	946	5	303809 169363

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Ancient Woodland** Name: Not Supplied Reference: 15303 Area(m²): 4067.49 Type: Ancient and Semi-Natural Woodland	(S)	0	2	304173 168365
14	**Ancient Woodland** Name: Not Supplied Reference: 41870 Area(m²): 5038.38 Type: Plantation on Ancient Woodland	(SE)	0	2	304711 168590
15	**Ancient Woodland** Name: Not Supplied Reference: 7921 Area(m²): 6303.8 Type: Ancient and Semi-Natural Woodland	(S)	0	2	304008 168463
16	**Ancient Woodland** Name: Not Supplied Reference: 10040 Area(m²): 1401.58 Type: Restored Ancient Woodland Site	(SE)	0	2	304576 168592
17	**Ancient Woodland** Name: Not Supplied Reference: 11317 Area(m²): 14696.9 Type: Restored Ancient Woodland Site	(SE)	0	2	304650 168731
18	**Ancient Woodland** Name: Not Supplied Reference: 18043 Area(m²): 1383.35 Type: Ancient and Semi-Natural Woodland	(S)	0	2	304249 168340
19	**Ancient Woodland** Name: Not Supplied Reference: 39582 Area(m²): 22103.56 Type: Plantation on Ancient Woodland	(S)	0	2	304343 168370
20	**Ancient Woodland** Name: Not Supplied Reference: 7920 Area(m²): 59415.18 Type: Ancient and Semi-Natural Woodland	(S)	0	2	304263 168384
21	**Ancient Woodland** Name: Not Supplied Reference: 7920 Area(m²): 40561.39 Type: Ancient and Semi-Natural Woodland	(SE)	0	2	304601 168431
22	**Ancient Woodland** Name: Not Supplied Reference: 7922 Area(m²): 7901.58 Type: Ancient and Semi-Natural Woodland	(S)	0	2	304195 168531
23	**Ancient Woodland** Name: Not Supplied Reference: 12219 Area(m²): 8055.45 Type: Ancient and Semi-Natural Woodland	(SE)	0	2	304709 168588
24	**Ancient Woodland** Name: Not Supplied Reference: 17968 Area(m²): 13402.05 Type: Ancient and Semi-Natural Woodland	(E)	6	2	304933 168975
25	**Ancient Woodland** Name: Not Supplied Reference: 15306 Area(m²): 1319.58 Type: Ancient and Semi-Natural Woodland	(S)	29	2	304154 168544
26	**Ancient Woodland** Name: Not Supplied Reference: 41881 Area(m²): 4602.34 Type: Plantation on Ancient Woodland	(SE)	57	2	304573 168284

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	**Ancient Woodland** Name: Not Supplied Reference: 17970 Area(m²): 51384.43 Type: Ancient and Semi-Natural Woodland	(E)	121	2	305198 168960
28	**Ancient Woodland** Name: Not Supplied Reference: 7474 Area(m²): 13560.16 Type: Ancient and Semi-Natural Woodland	(SE)	141	2	304775 168346
29	**Ancient Woodland** Name: Not Supplied Reference: 7919 Area(m²): 13107.58 Type: Ancient and Semi-Natural Woodland	(SW)	221	2	303072 168262
30	**Ancient Woodland** Name: Not Supplied Reference: 17969 Area(m²): 1657.63 Type: Ancient and Semi-Natural Woodland	(E)	226	2	305055 169009
31	**Ancient Woodland** Name: Not Supplied Reference: 8018 Area(m²): 16155.74 Type: Ancient and Semi-Natural Woodland	(E)	242	2	305053 169047
32	**Ancient Woodland** Name: Not Supplied Reference: 17972 Area(m²): 2791.62 Type: Ancient and Semi-Natural Woodland	(E)	271	2	305093 169031
33	**Ancient Woodland** Name: Not Supplied Reference: 15304 Area(m²): 6846.88 Type: Ancient and Semi-Natural Woodland	(SW)	352	2	303035 168404
34	**Ancient Woodland** Name: Not Supplied Reference: 17961 Area(m²): 4552.44 Type: Ancient and Semi-Natural Woodland	(E)	367	2	305553 168714
35	**Ancient Woodland** Name: Not Supplied Reference: 17976 Area(m²): 1300.75 Type: Ancient and Semi-Natural Woodland	(E)	433	2	304930 169205
36	**Ancient Woodland** Name: Not Supplied Reference: 8021 Area(m²): 19763.32 Type: Ancient and Semi-Natural Woodland	C4NE (E)	444	2	304838 169454
37	**Ancient Woodland** Name: Not Supplied Reference: 10651 Area(m²): 19052.93 Type: Restored Ancient Woodland Site	(SW)	480	2	302877 168162
38	**Ancient Woodland** Name: Not Supplied Reference: 7923 Area(m²): 7456.8 Type: Ancient and Semi-Natural Woodland	(SW)	499	2	303121 168535
39	**Ancient Woodland** Name: Not Supplied Reference: 15307 Area(m²): 2093.93 Type: Ancient and Semi-Natural Woodland	(SW)	513	2	303177 168559
40	**Ancient Woodland** Name: Not Supplied Reference: 9276 Area(m²): 27639.76 Type: Restored Ancient Woodland Site	(SW)	526	2	302837 168143

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	**Ancient Woodland** Name: Not Supplied Reference: 9277 Area(m²): 14411.65 Type: Restored Ancient Woodland Site	(SW)	662	2	302773 168322
42	**Ancient Woodland** Name: Not Supplied Reference: 7924 Area(m²): 52487.69 Type: Ancient and Semi-Natural Woodland	C1SE (W)	662	2	302876 169151
43	**Ancient Woodland** Name: Not Supplied Reference: 15308 Area(m²): 3450.37 Type: Ancient and Semi-Natural Woodland	C1SE (W)	694	2	302881 169150
44	**Ancient Woodland** Name: Not Supplied Reference: 15305 Area(m²): 8751.36 Type: Ancient and Semi-Natural Woodland	(SW)	955	2	302433 168437

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Vale Of Glamorgan County Borough Council - Environmental Health Department	January 2020	Annual Rolling Update
Natural Resources Wales	November 2023	Annually
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	November 2024	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	July 2024	Quarterly
Natural Resources Wales	November 2024	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Variable
Local Authority Pollution Prevention and Controls		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	November 2024	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Historical Prosecutions		
Environment Agency, Welsh Region	March 2013	Not Applicable
Natural Resources Wales	March 2013	Not Applicable
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	
Substantiated Pollution Incident Register		
Environment Agency Wales - South East Area	January 2021	Quarterly
Natural Resources Wales	November 2024	Quarterly
Water Abstractions		
Natural Resources Wales	December 2024	Quarterly
Environment Agency - Welsh Region	October 2024	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	

Agency & Hydrological	Version	Update Cycle
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	
OS Water Network Lines Ordnance Survey	October 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water Suitability Natural Resources Wales	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Water Framework Directive - Catchment Natural Resources Wales	July 2024	Annually
Water Framework Directive - Groundwater Natural Resources Wales	July 2024	Annually
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Natural Resources Wales Environment Agency Wales - South East Area	August 2024 January 2023	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	July 2024 November 2024	Quarterly Quarterly
Local Authority Landfill Coverage Vale Of Glamorgan County Borough Council	February 2003	Not Applicable
Local Authority Recorded Landfill Sites Vale Of Glamorgan County Borough Council	October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency Wales - South East Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area	June 2015	

Data Currency

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September 2024	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Vale Of Glamorgan County Borough Council - Planning Department	January 2016	Variable
Planning Hazardous Substance Consents Vale Of Glamorgan County Borough Council - Planning Department	January 2016	Variable
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	March 2024	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	November 2024	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	November 2024	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	December 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Points of Interest - Commercial Services PointX	December 2024	Quarterly
Points of Interest - Education and Health PointX	December 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2024	Quarterly
Points of Interest - Public Infrastructure PointX	December 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	
Sensitive Land Use	**Version**	**Update Cycle**
Ancient Woodland Natural Resources Wales	October 2024	Bi-Annually
Areas of Adopted Green Belt Vale Of Glamorgan County Borough Council	July 2024	Quarterly
Areas of Unadopted Green Belt Vale Of Glamorgan County Borough Council	July 2024	Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	November 2024	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Vale Of Glamorgan County Borough Council	August 2024	Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2024	Bi-Annually
National Nature Reserves Natural Resources Wales	January 2025	Bi-Annually
National Parks Natural Resources Wales	September 2024	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 November 2024	Bi-Annually
Ramsar Sites Natural Resources Wales	August 2024	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	November 2024	Bi-Annually
Special Areas of Conservation Natural Resources Wales	October 2024	Bi-Annually
Special Protection Areas Natural Resources Wales	November 2024	Bi-Annually

Data Suppliers

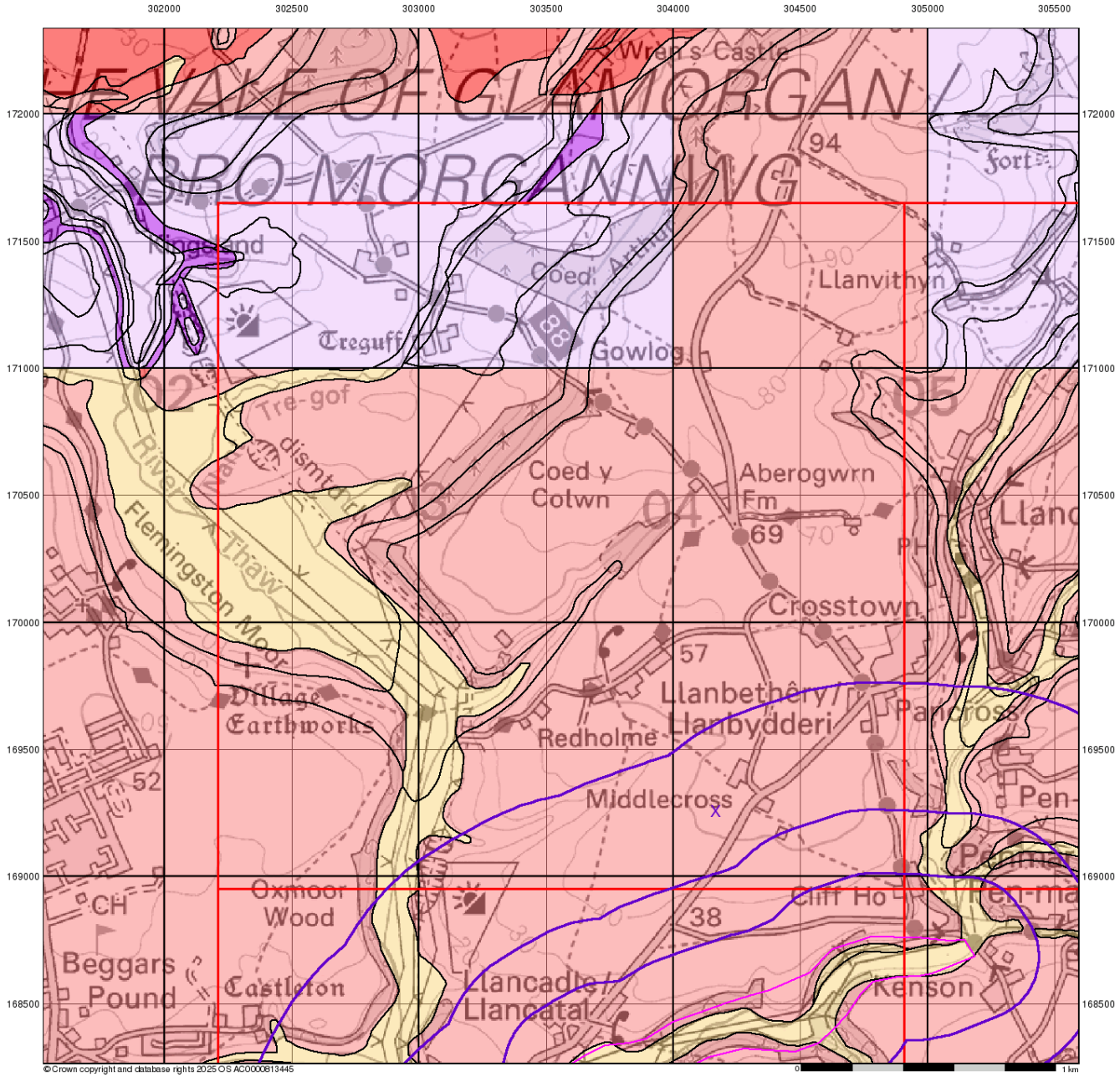
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
4	**Vale Of Glamorgan County Borough Council** Civic Offices, Holton Road, Barry, South Glamorgan, CF63 4RU	Telephone: 01446 700111 Fax: 01446 745566 Website: www.valeofglamorgan.gov.uk
5	**PointX** 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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



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Groundwater Vulnerability

General

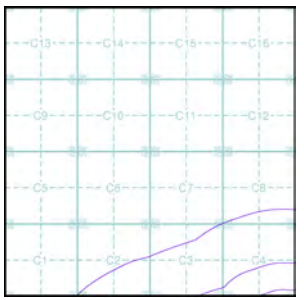
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

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 C



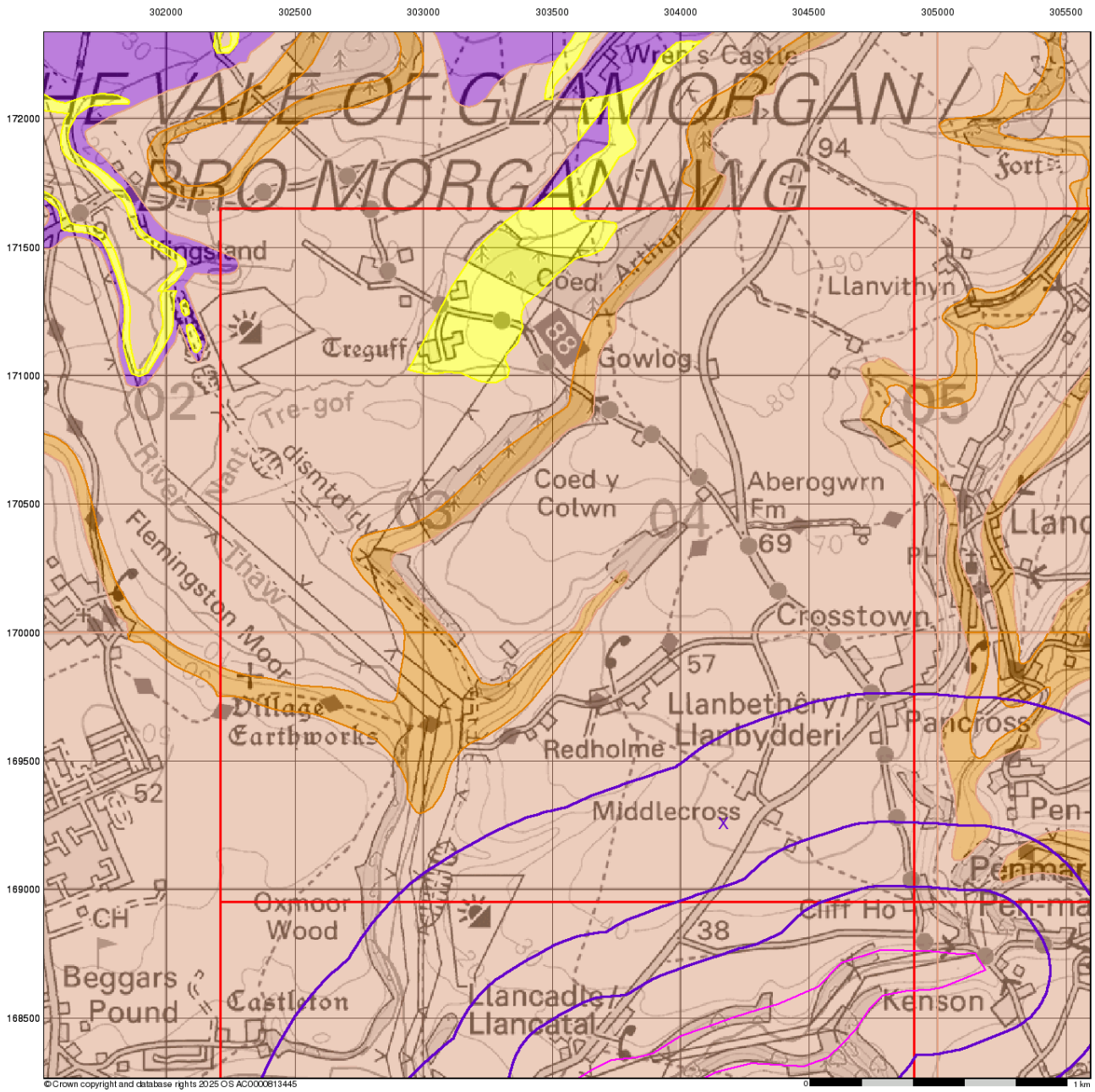
Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	304170, 169260
Slice:	C
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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



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Bedrock Aquifer Designation

General

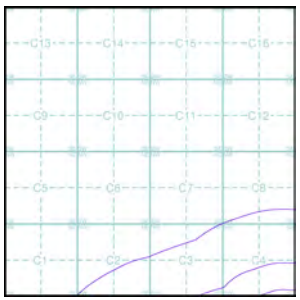
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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 C



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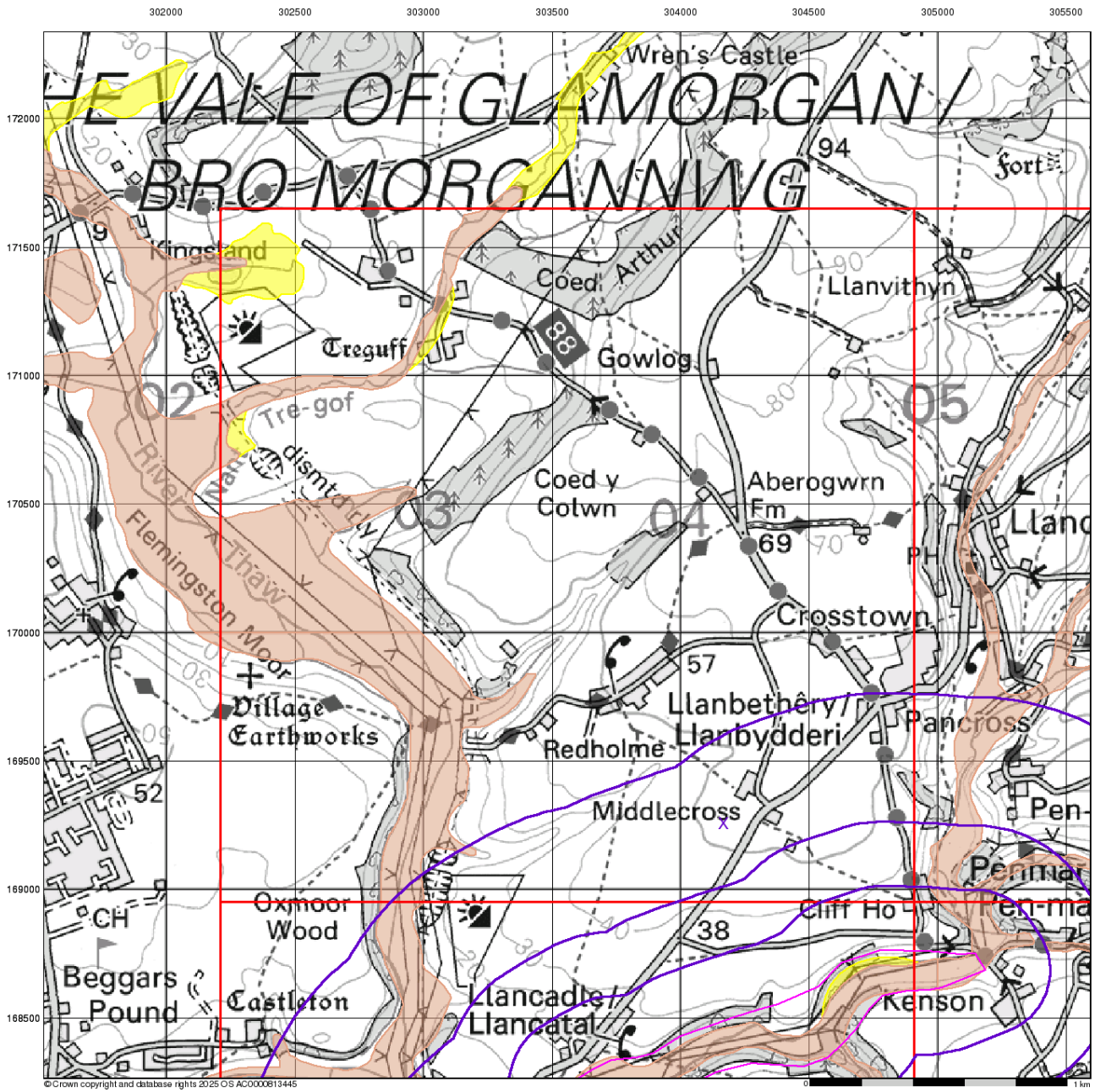

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LANDMARK INFORMATION GROUP

Superficial Aquifer Designation

General

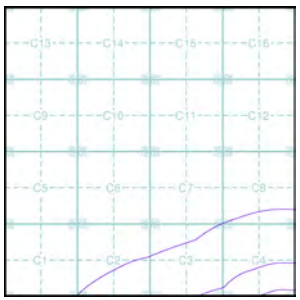
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

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 C



N

Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	304170, 169260
Slice:	C
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP
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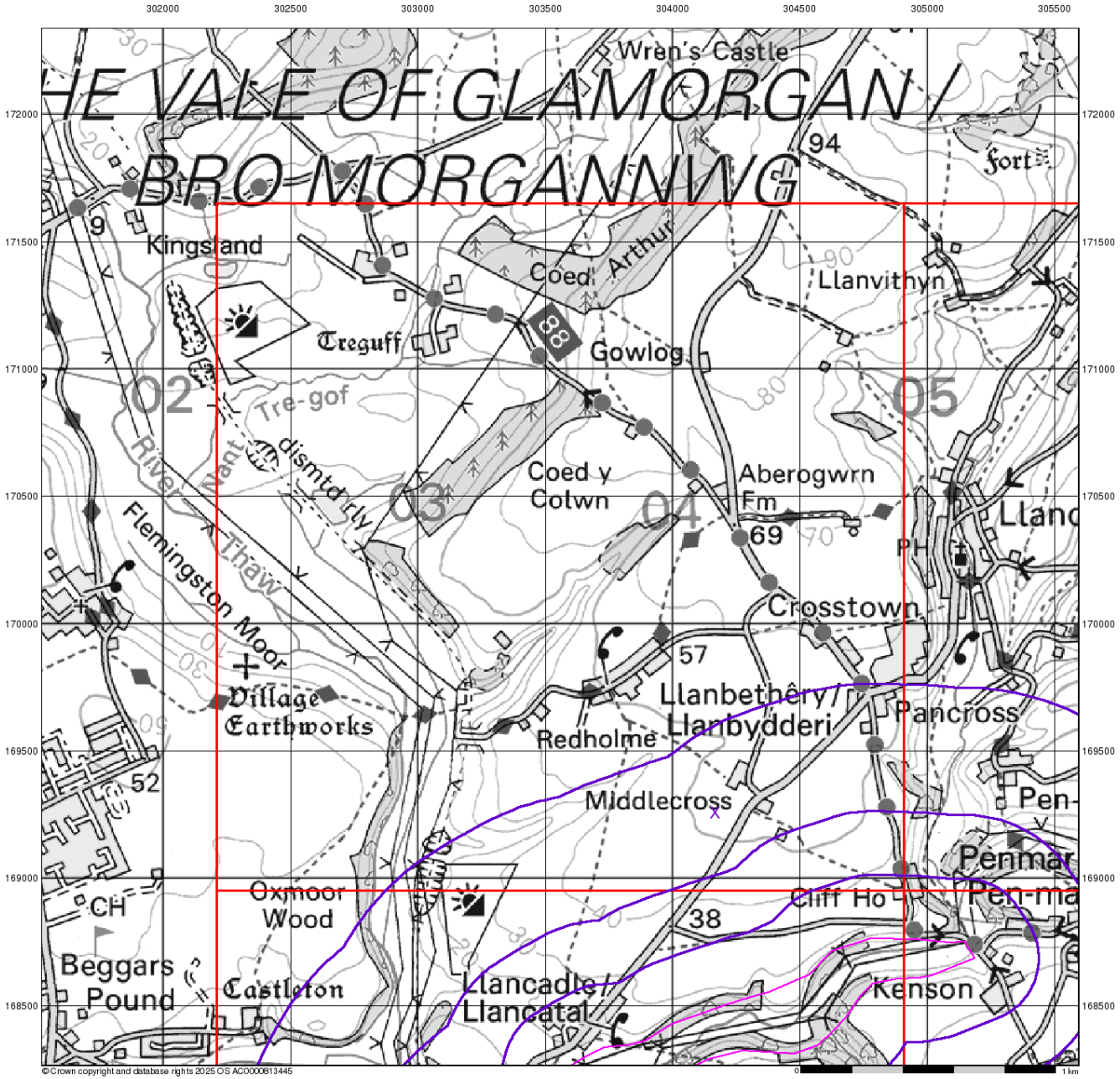

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LANDMARK INFORMATION GROUP

Source Protection Zones

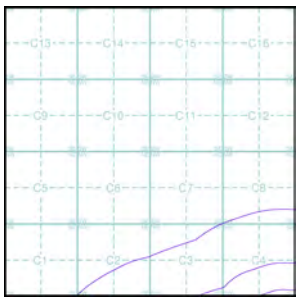
General

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 C



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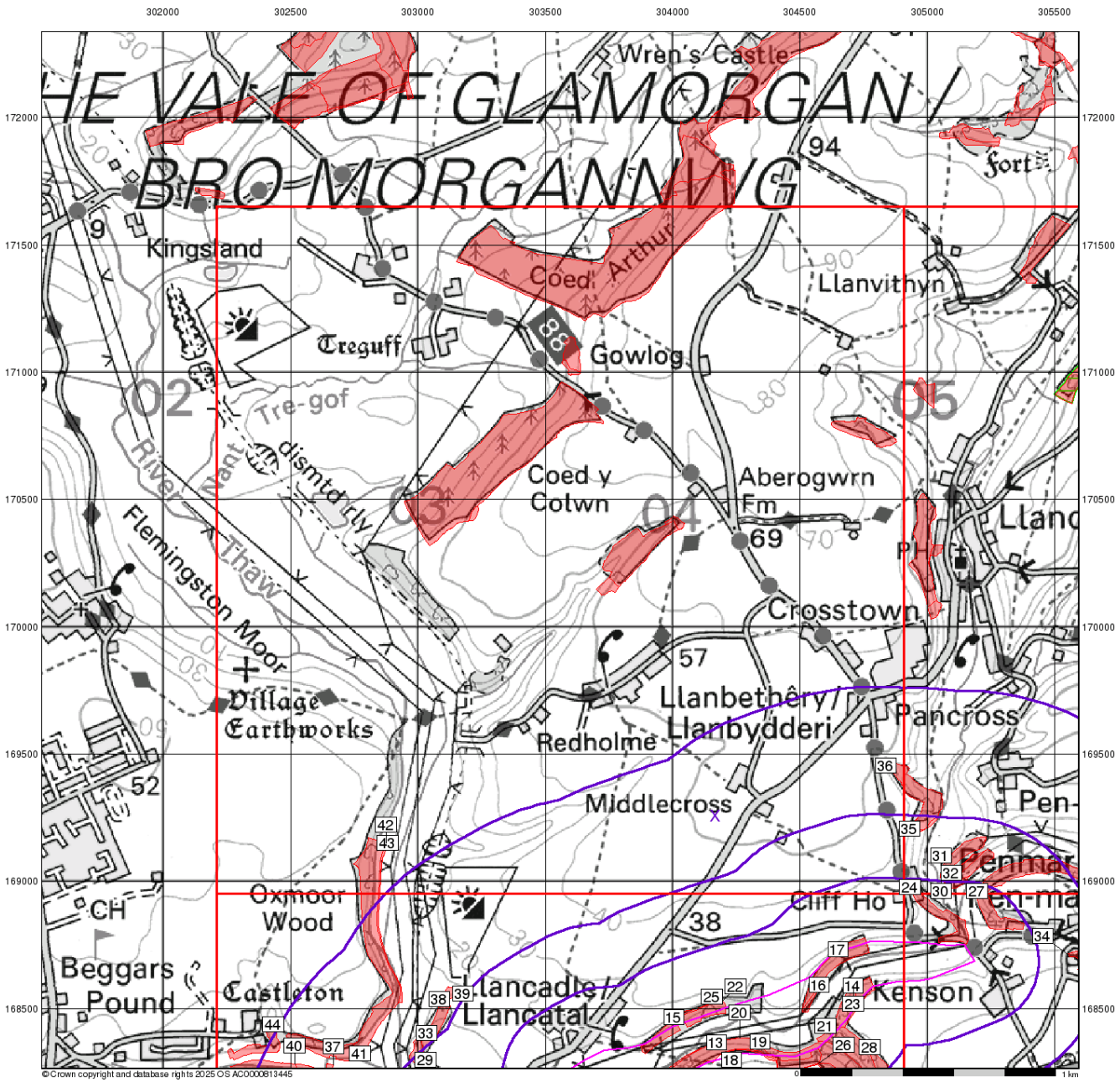

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LANDMARK INFORMATION GROUP

Sensitive Land Uses

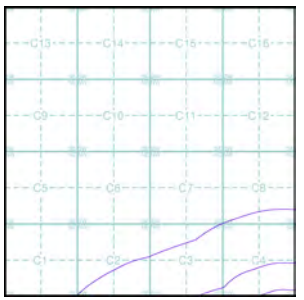
General

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 C



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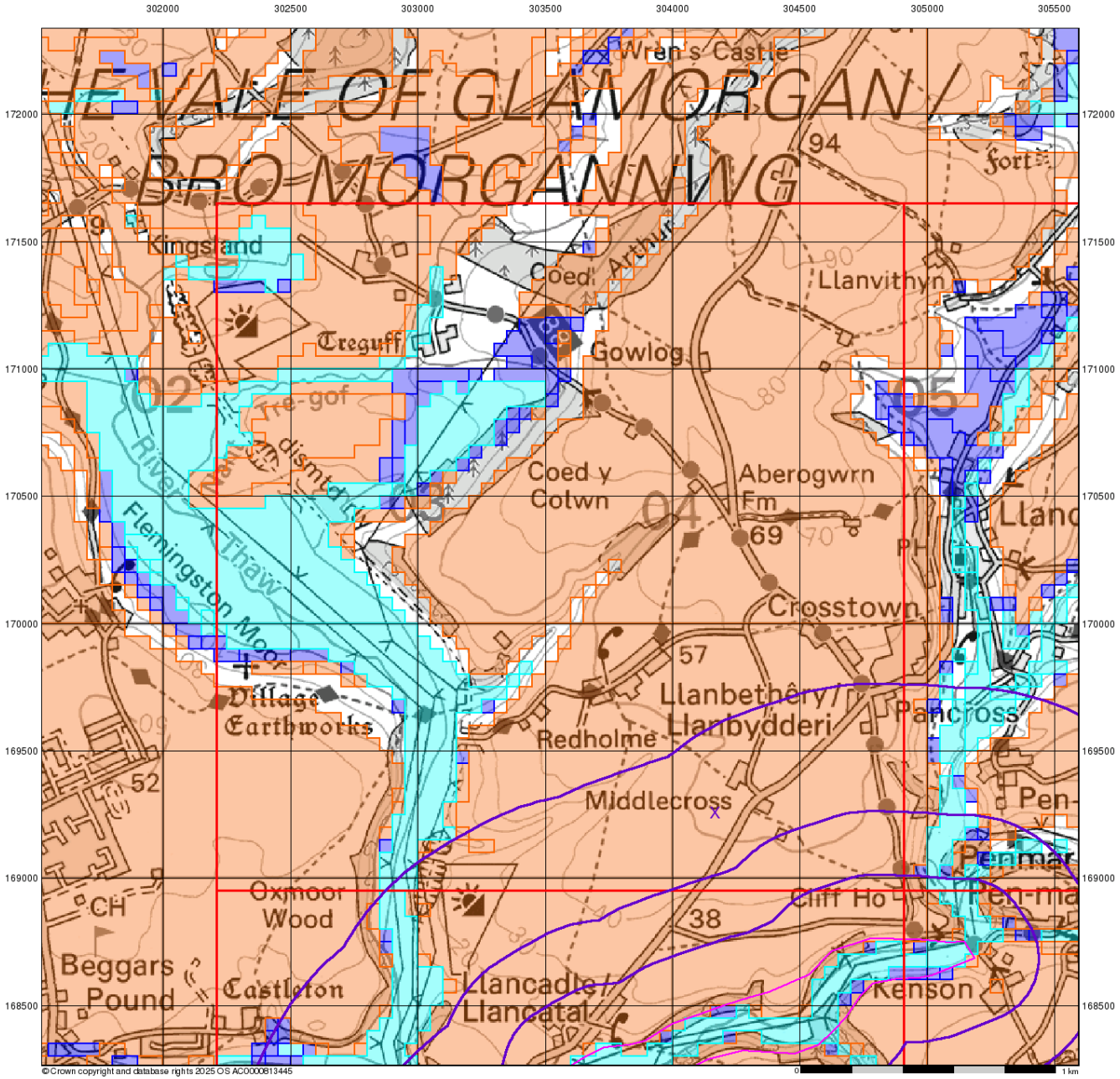

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BGS Flood GFS Data

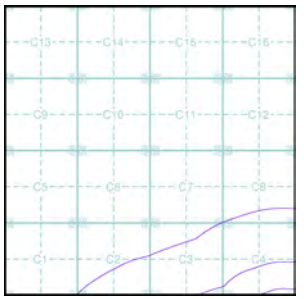
General

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 C



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National Grid Reference:	304170, 169260
Slice:	C
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Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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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
Pylon
Electricity Transmission Line
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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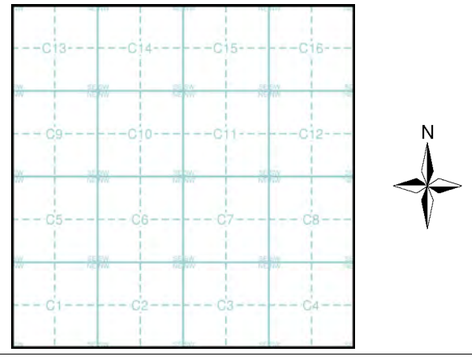
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1885	2
Glamorganshire	1:10,560	1900	3
Glamorganshire	1:10,560	1921	4
Glamorganshire	1:10,560	1947 - 1951	5
Historical Aerial Photography	1:10,560	1947	6
Ordnance Survey Plan	1:10,000	1964	7
Ordnance Survey Plan	1:10,000	1969	8
Ordnance Survey Plan	1:10,000	1974 - 1975	9
Ordnance Survey Plan	1:10,000	1984	10
Ordnance Survey Plan	1:10,000	1990	11
10K Raster Mapping	1:10,000	1999	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2024	14

Historical Map - Slice C



Order Details

Order Number: 367701071_1_1
Customer Ref: 2025s0023
National Grid Reference: 304170, 169260
Slice: C
Site Area (Ha): 40.66
Search Buffer (m): 1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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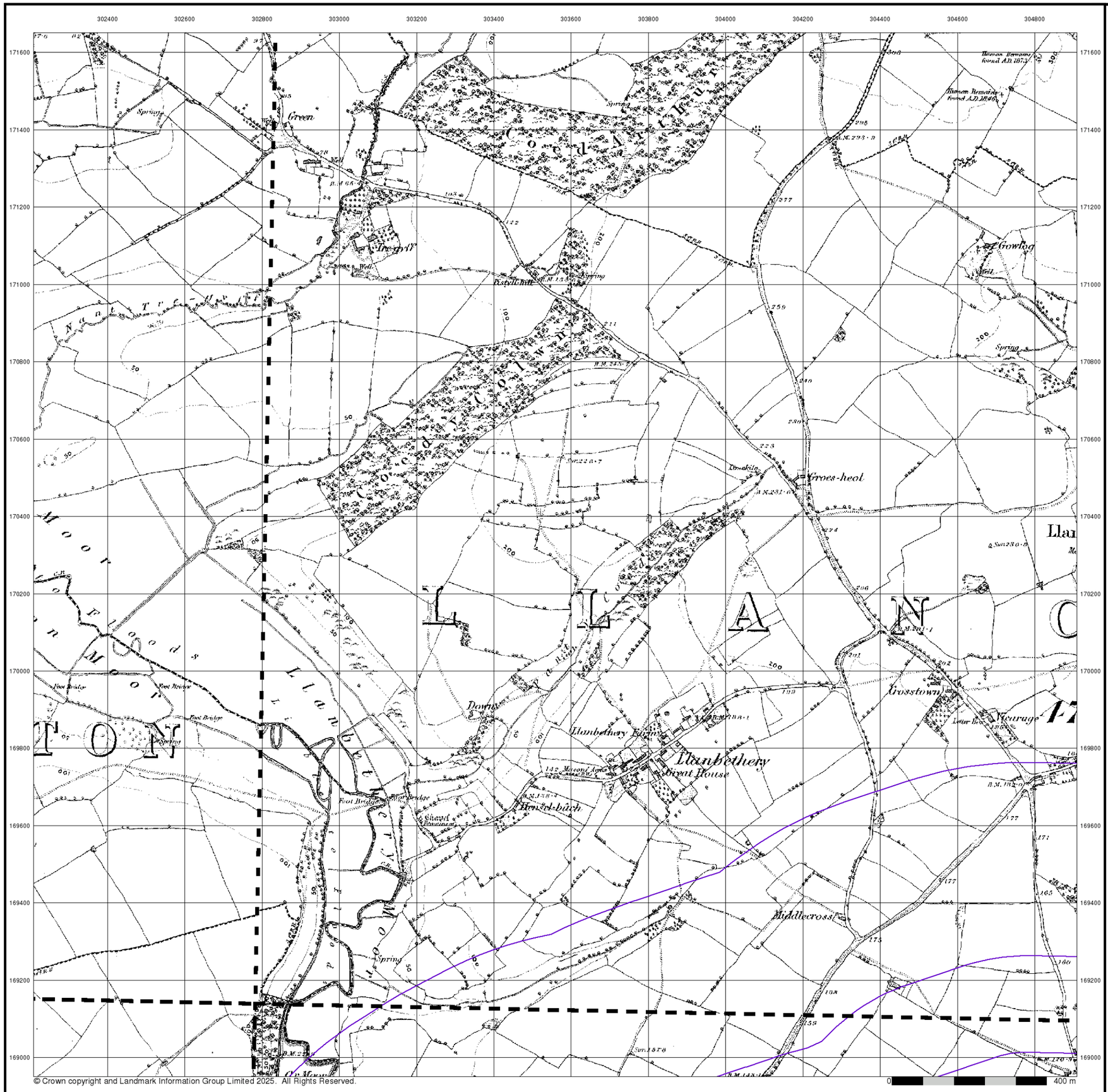
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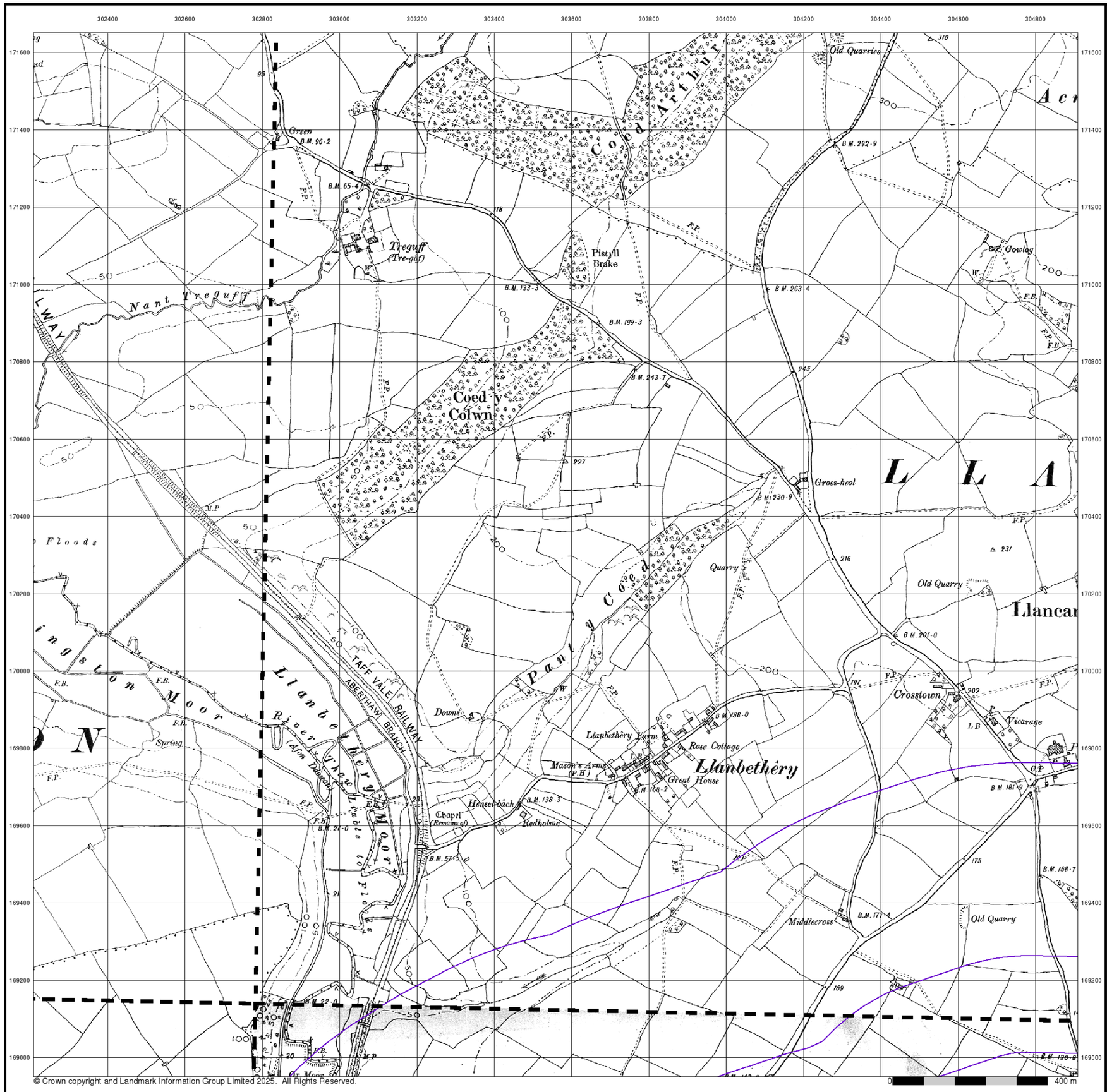

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Glamorganshire

Published 1900

Source map scale - 1:10,560

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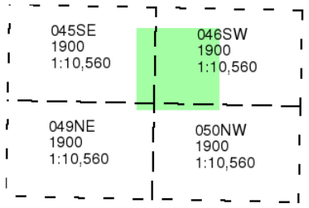
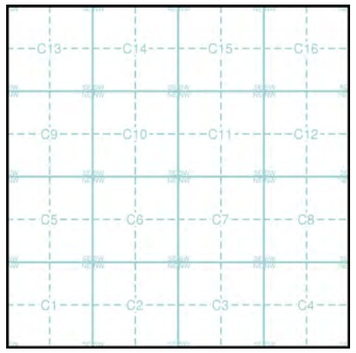
Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	304170, 169260
Slice:	C
Site Area (Ha):	40.66
Search Buffer (m):	1000

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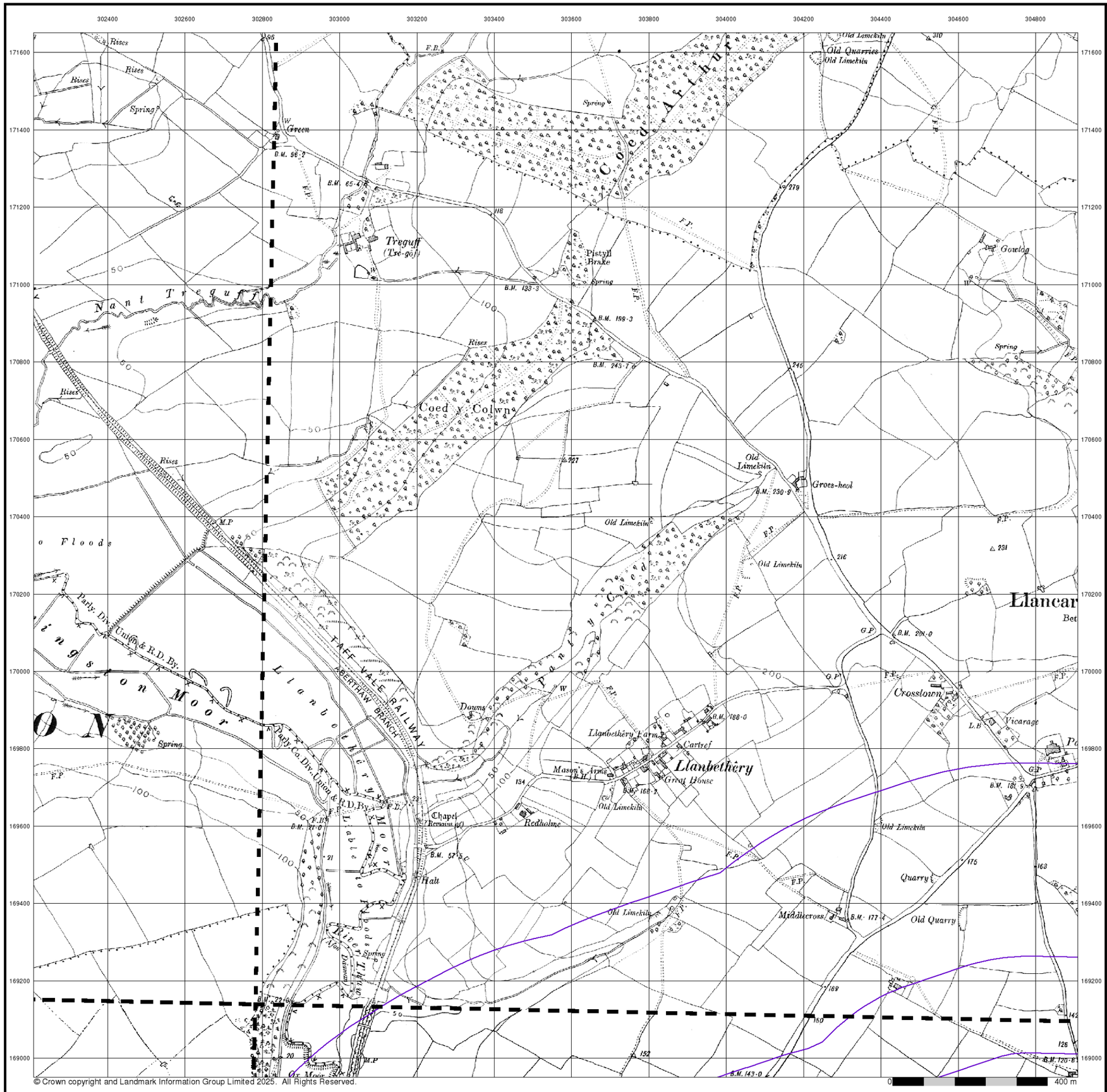

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Glamorganshire

Published 1921

Source map scale - 1:10,560

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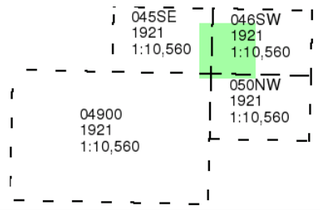
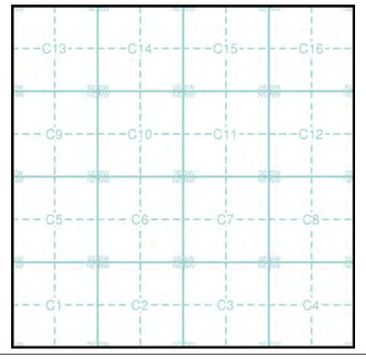
Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

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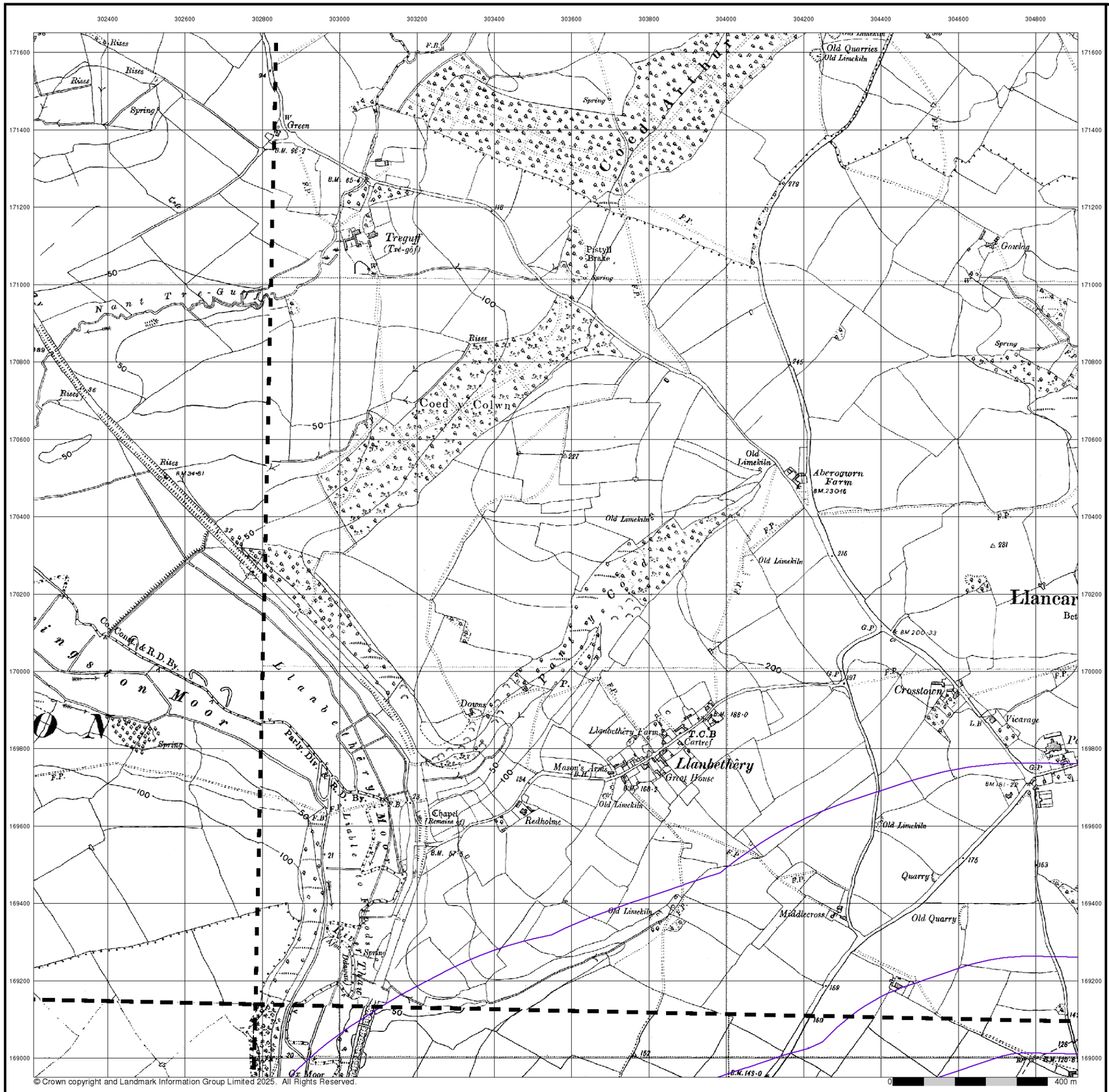

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Glamorganshire

Published 1947 - 1951

Source map scale - 1:10,560

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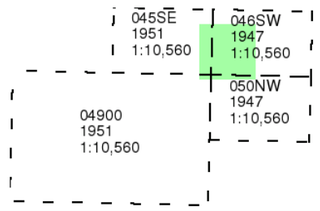
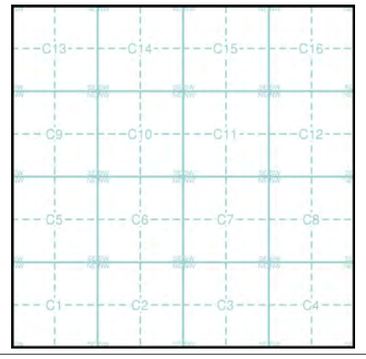
Map Name(s) and Date(s)



Historical Map - Slice C



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Customer Ref:	2025s0023
National Grid Reference:	304170, 169260
Slice:	C
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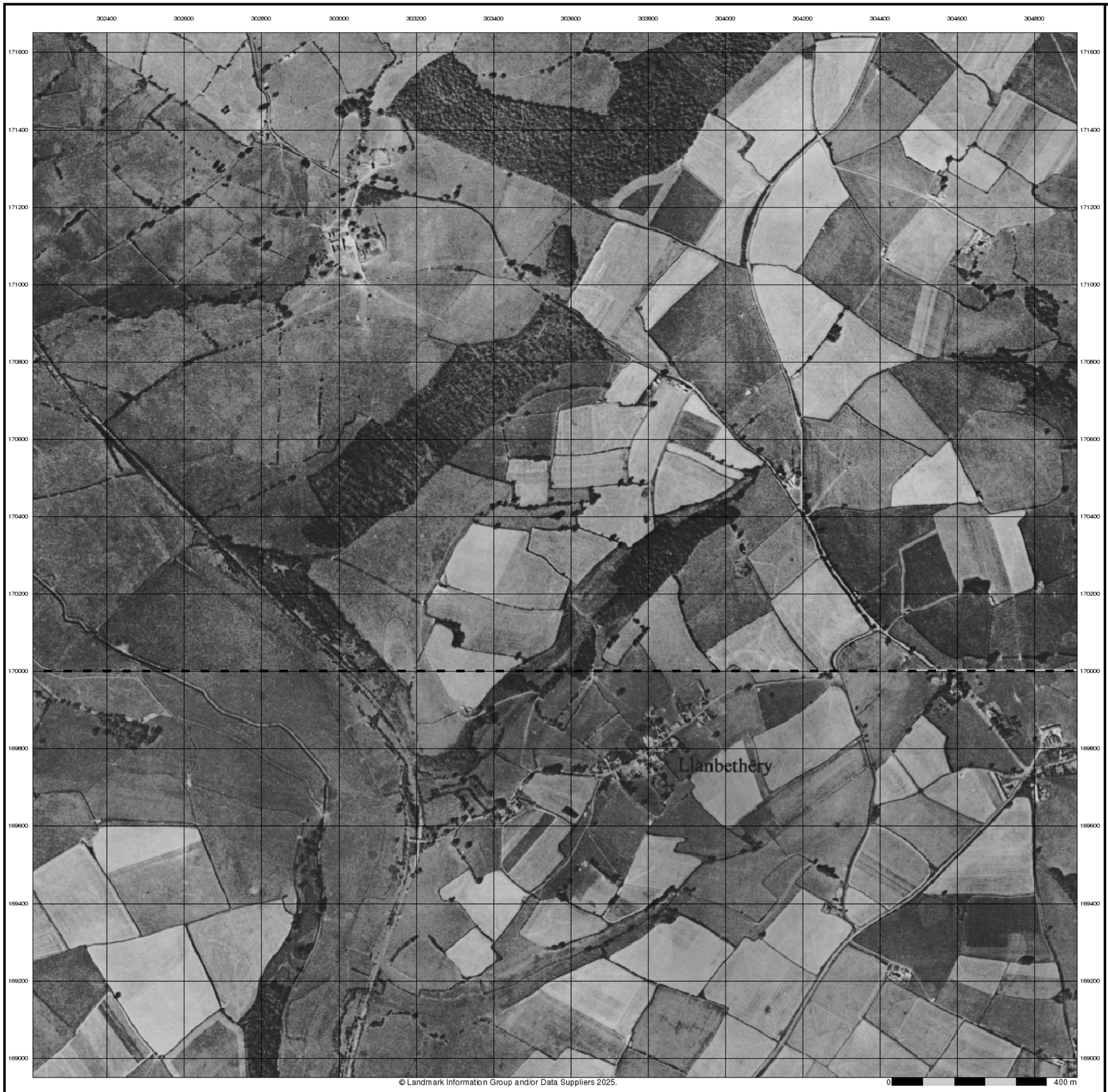

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Historical Aerial Photography

Published 1947

Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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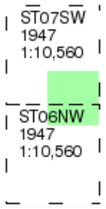
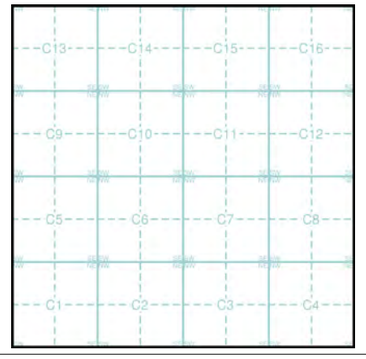
Map Name(s) and Date(s)



Historical Aerial Photography - Slice C



Order Details

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Customer Ref:	2025s0023
National Grid Reference:	304170, 169260
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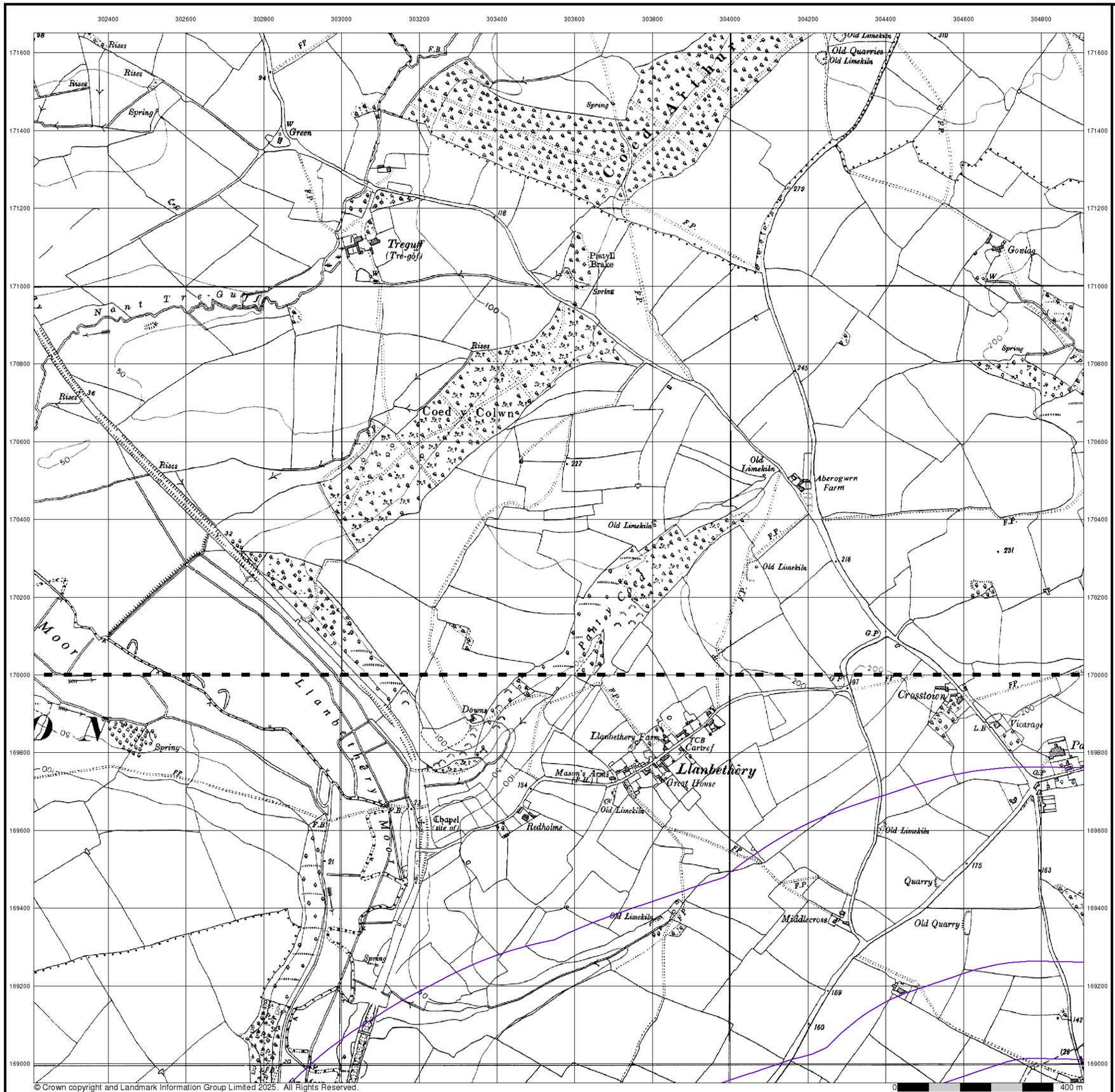

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Ordnance Survey Plan

Published 1964

Source map scale - 1:10,000

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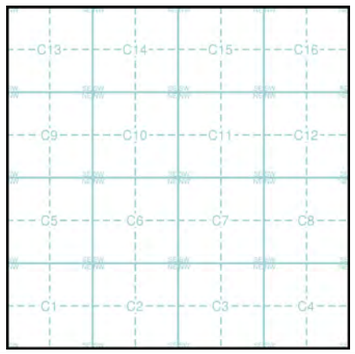
Map Name(s) and Date(s)

ST07SW
1964
1:10,560

ST06NW
1964
1:10,560

Historical Map - Slice C



Order Details

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National Grid Reference:	304170, 169260
Slice:	C
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Search Buffer (m):	1000

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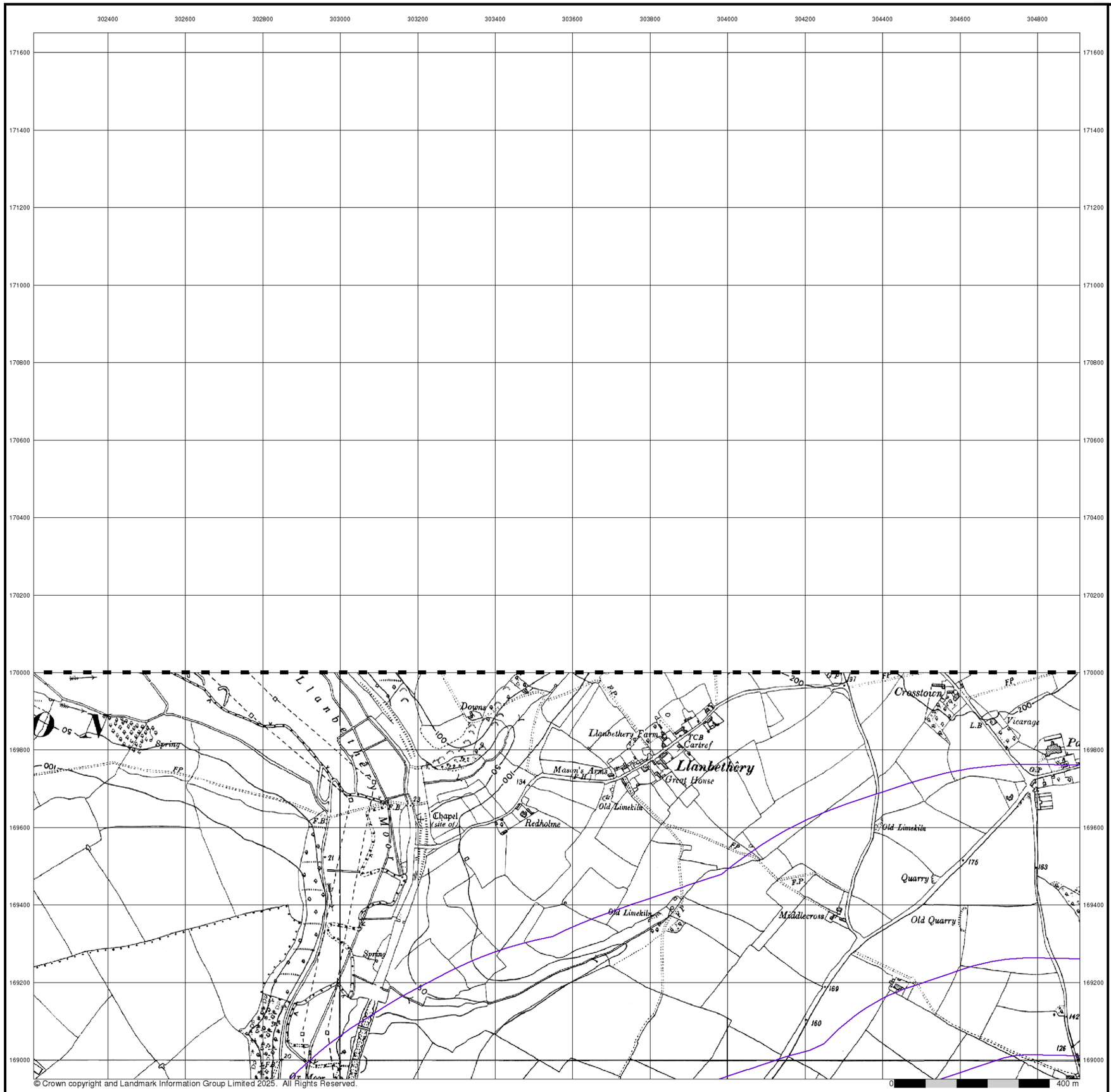

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Ordnance Survey Plan

Published 1969

Source map scale - 1:10,000

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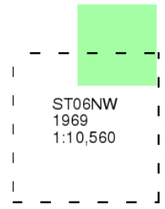
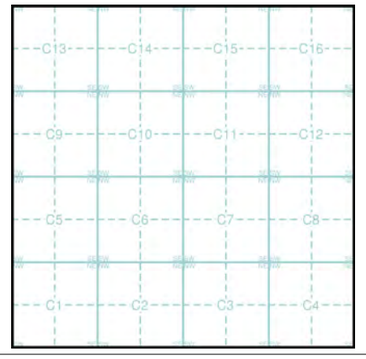
Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

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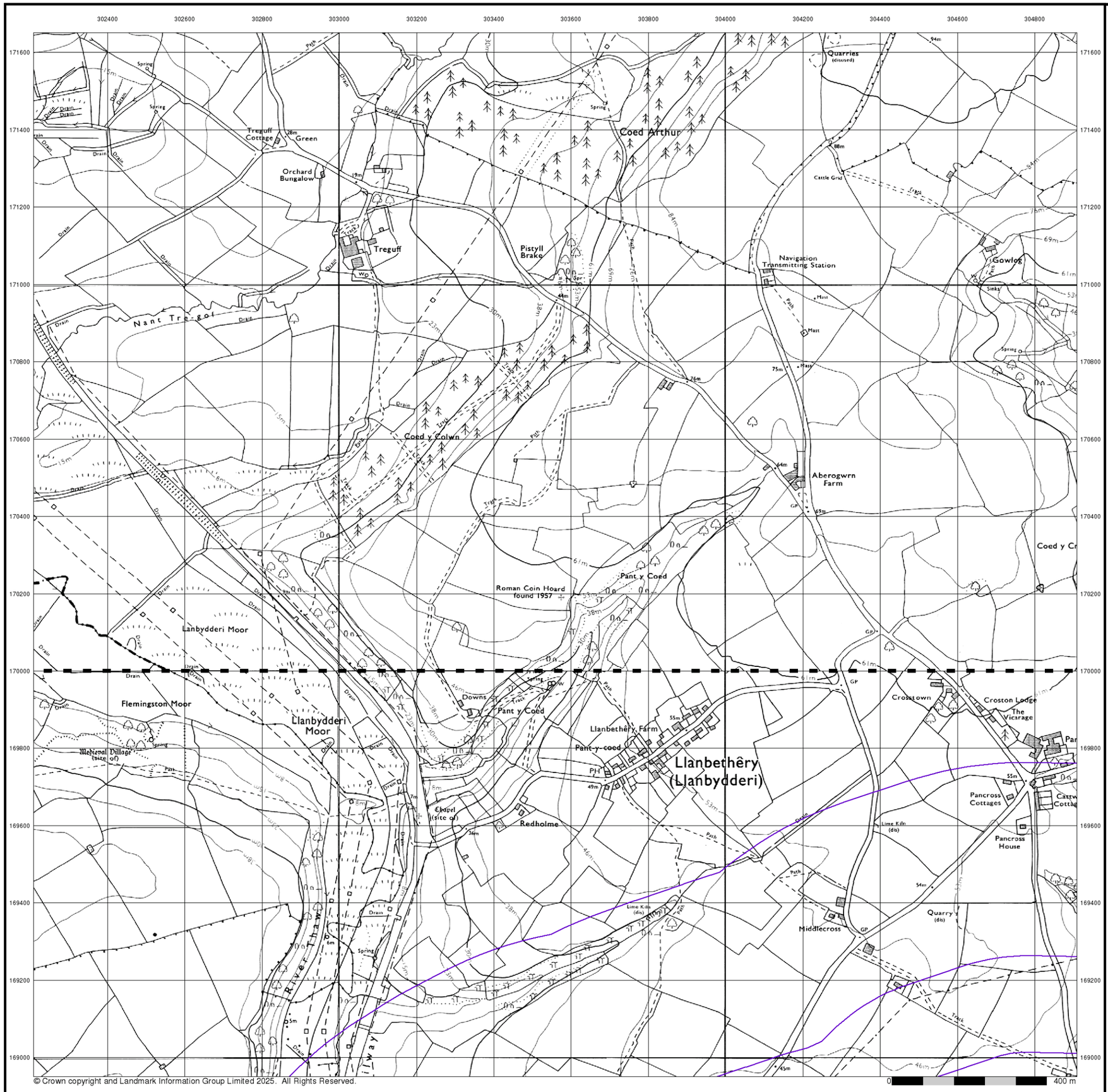

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Ordnance Survey Plan

Published 1974 - 1975

Source map scale - 1:10,000

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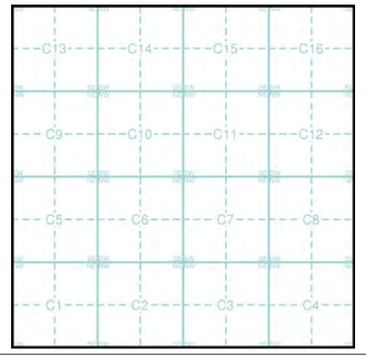
Map Name(s) and Date(s)

ST07SW
1974
1:10,000

ST06NW
1975
1:10,000

Historical Map - Slice C



Order Details

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Search Buffer (m):	1000

Site Details

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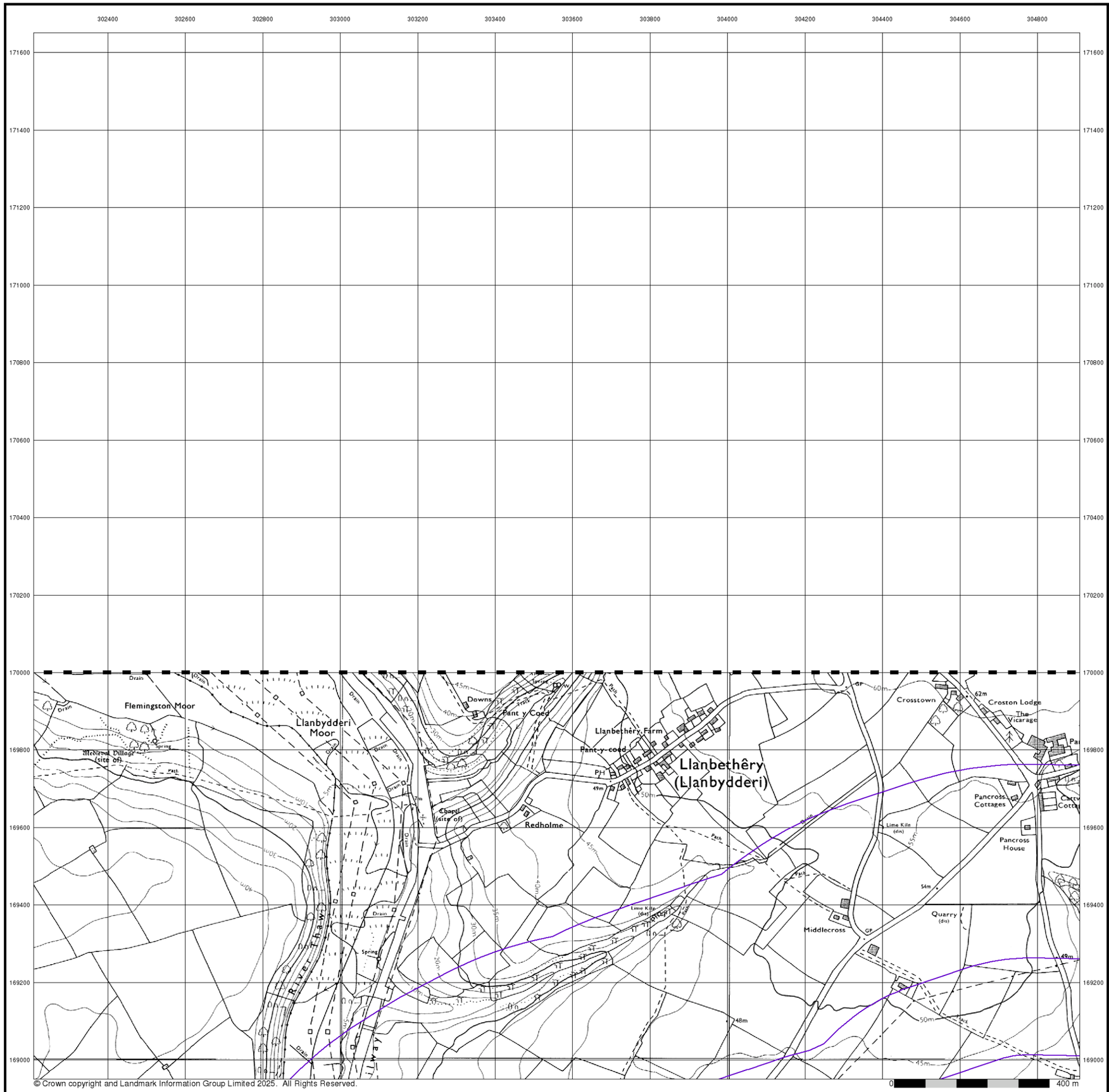

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Ordnance Survey Plan

Published 1984

Source map scale - 1:10,000

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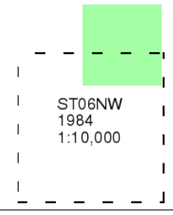
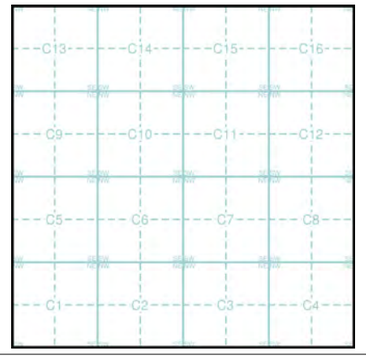
Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

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Site Details

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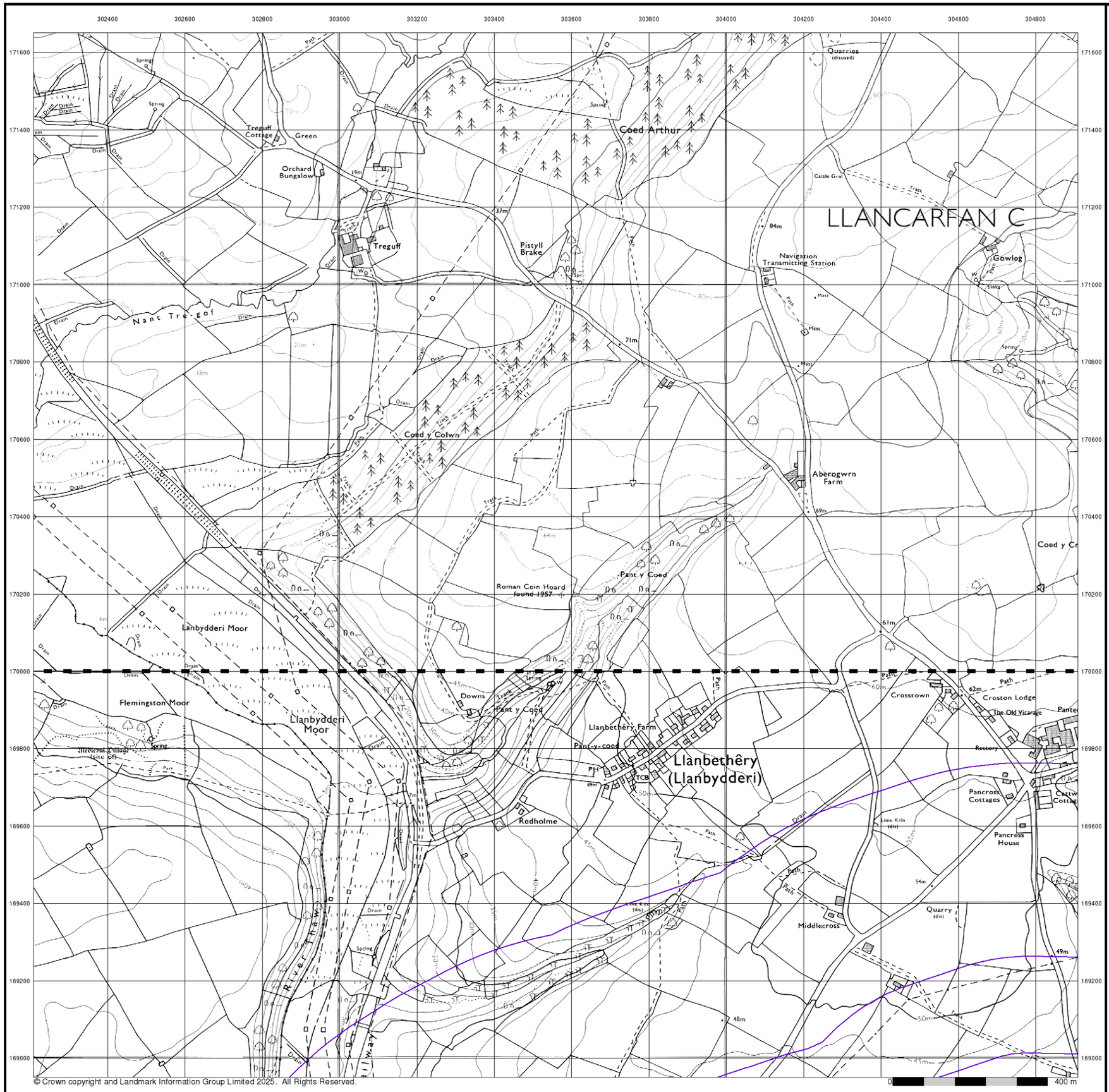

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Ordnance Survey Plan

Published 1990

Source map scale - 1:10,000

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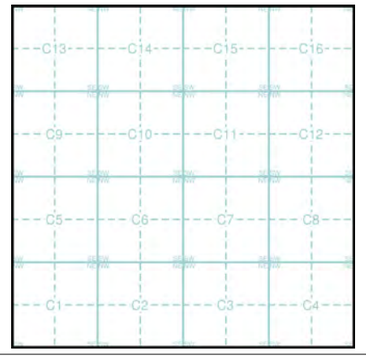
Map Name(s) and Date(s)

ST07SW
1990
1:10,000

ST06NW
1990
1:10,000

Historical Map - Slice C



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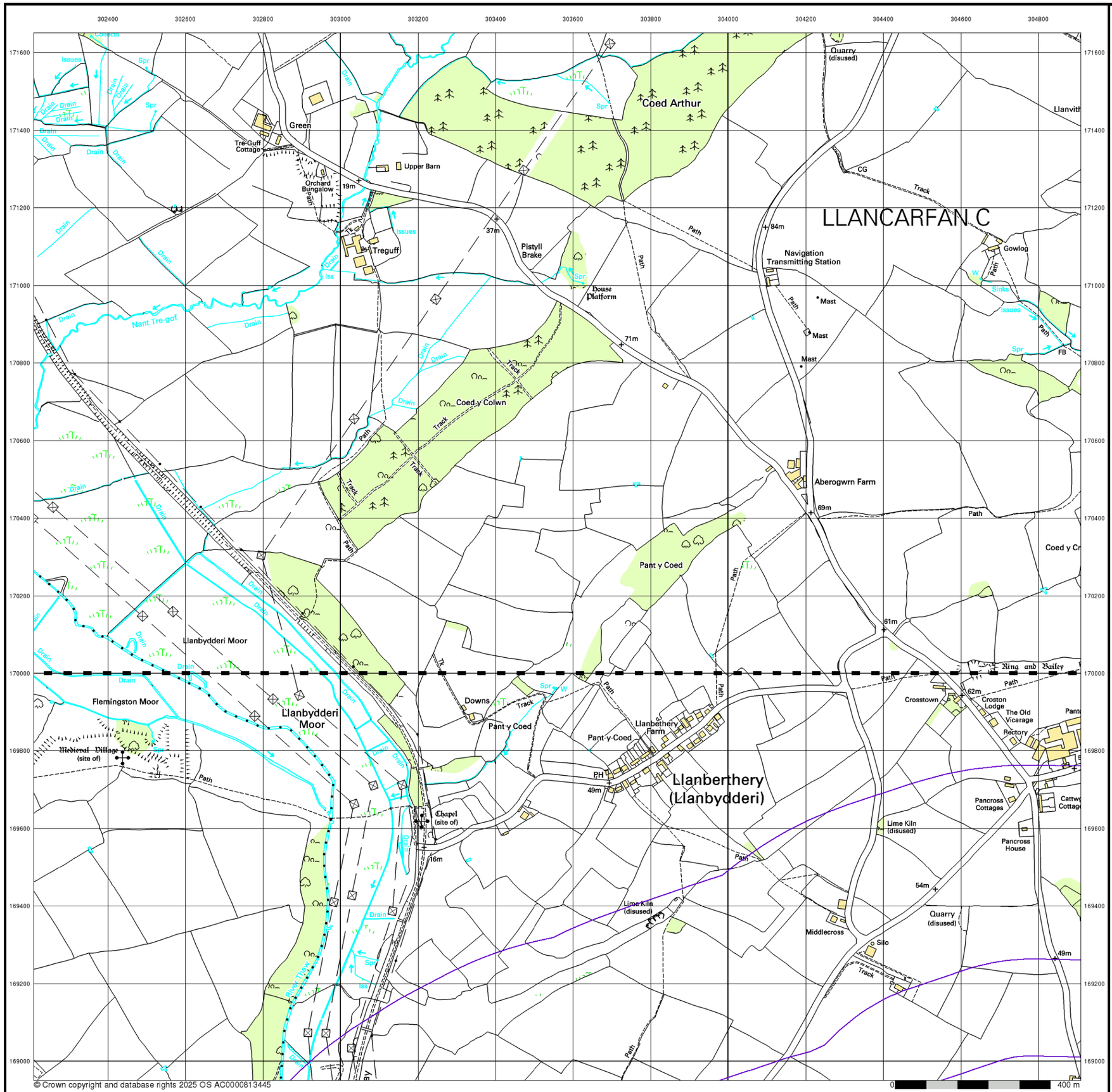

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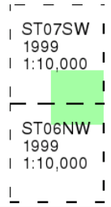
10k Raster Mapping

Published 1999

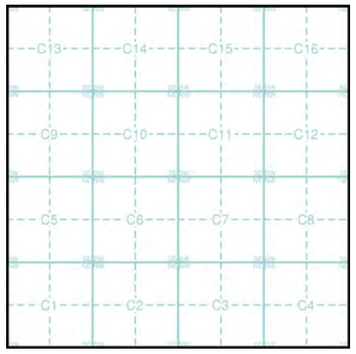
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

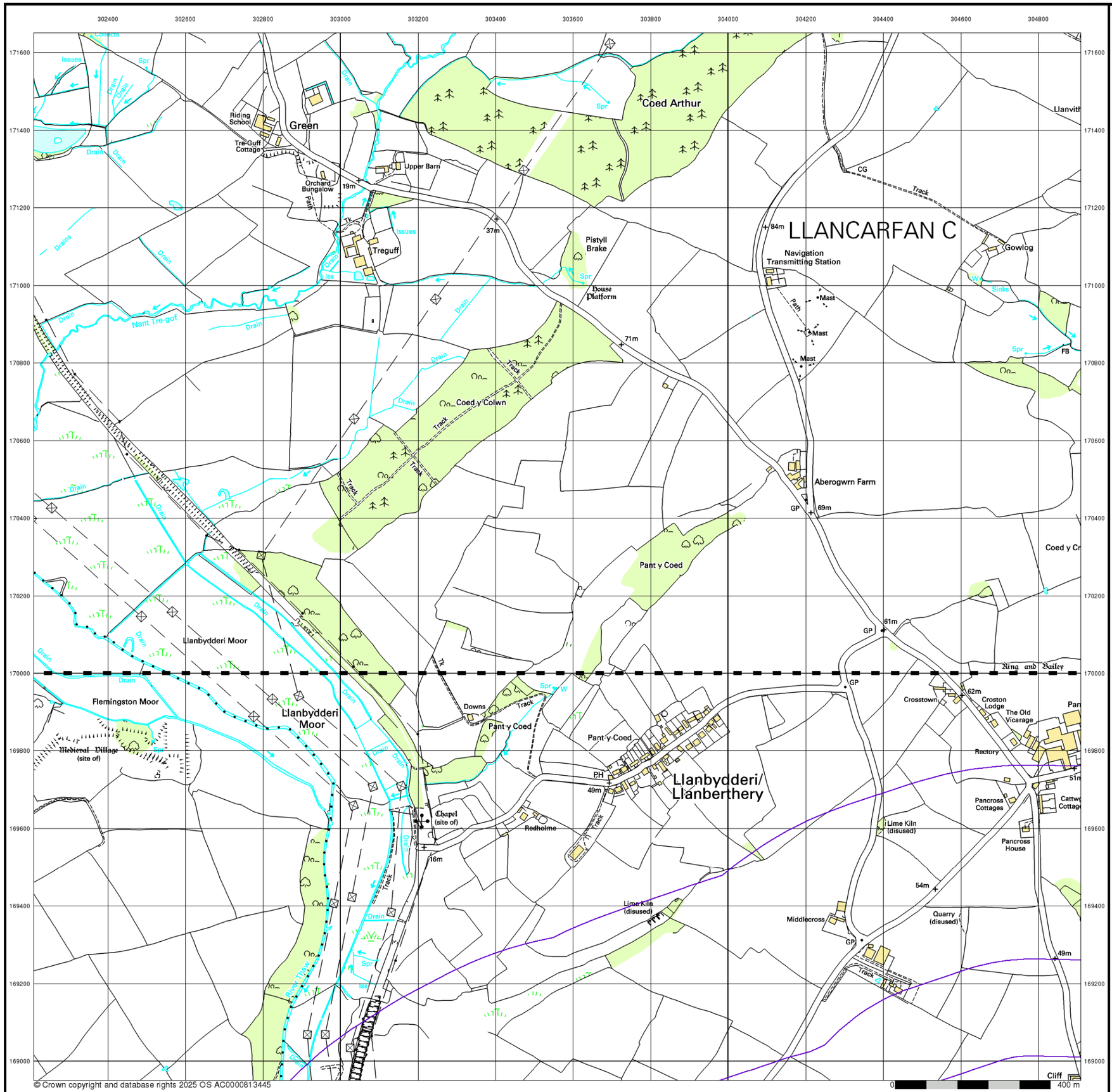
Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	304170, 169260
Slice:	C
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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



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10k Raster Mapping

Published 2006

Source map scale - 1:10,000

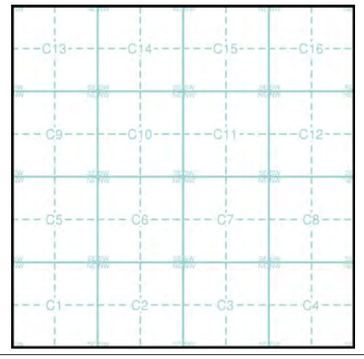
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks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

Map Name(s) and Date(s)

ST07SW
2006
1:10,000

ST06NW
2006
1:10,000

Historical Map - Slice C



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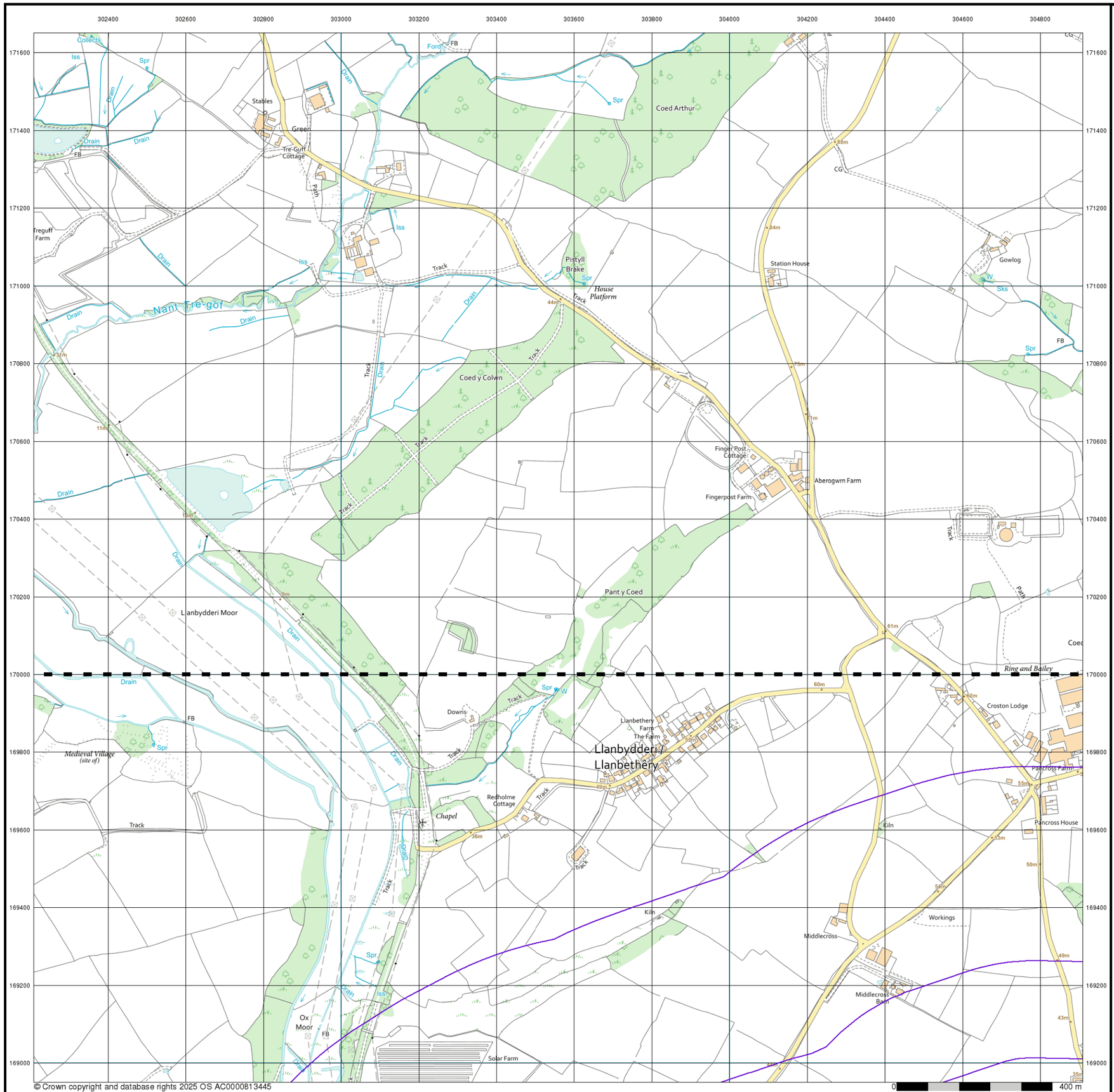

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VectorMap Local

Published 2024

Source map scale - 1:10,000

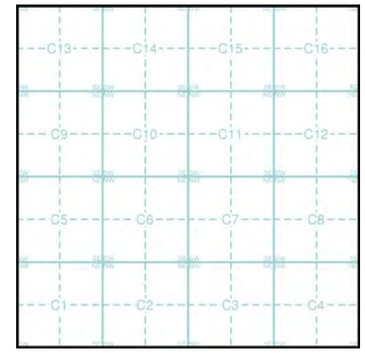
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap 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)

ST07SW
2024
Variable

ST06NW
2024
Variable

Historical Map - Slice C



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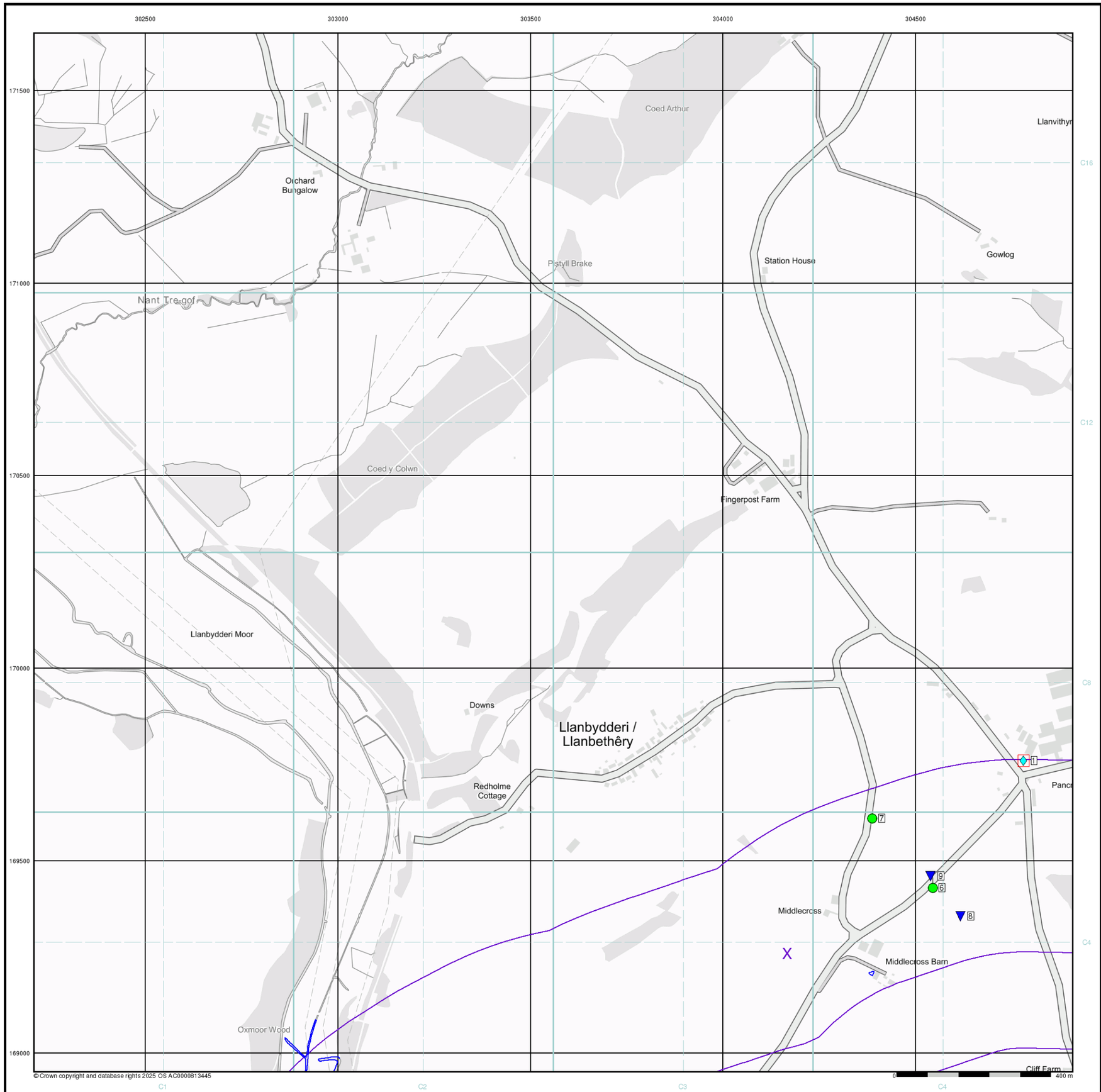

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LANDMARK INFORMATION GROUP®

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
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

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

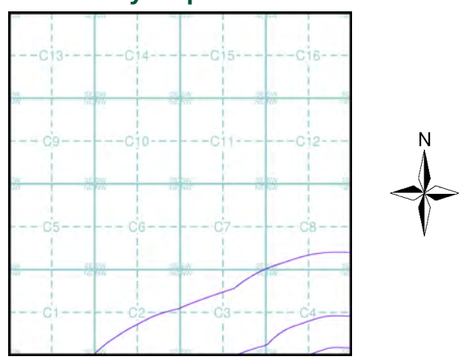
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Slice C



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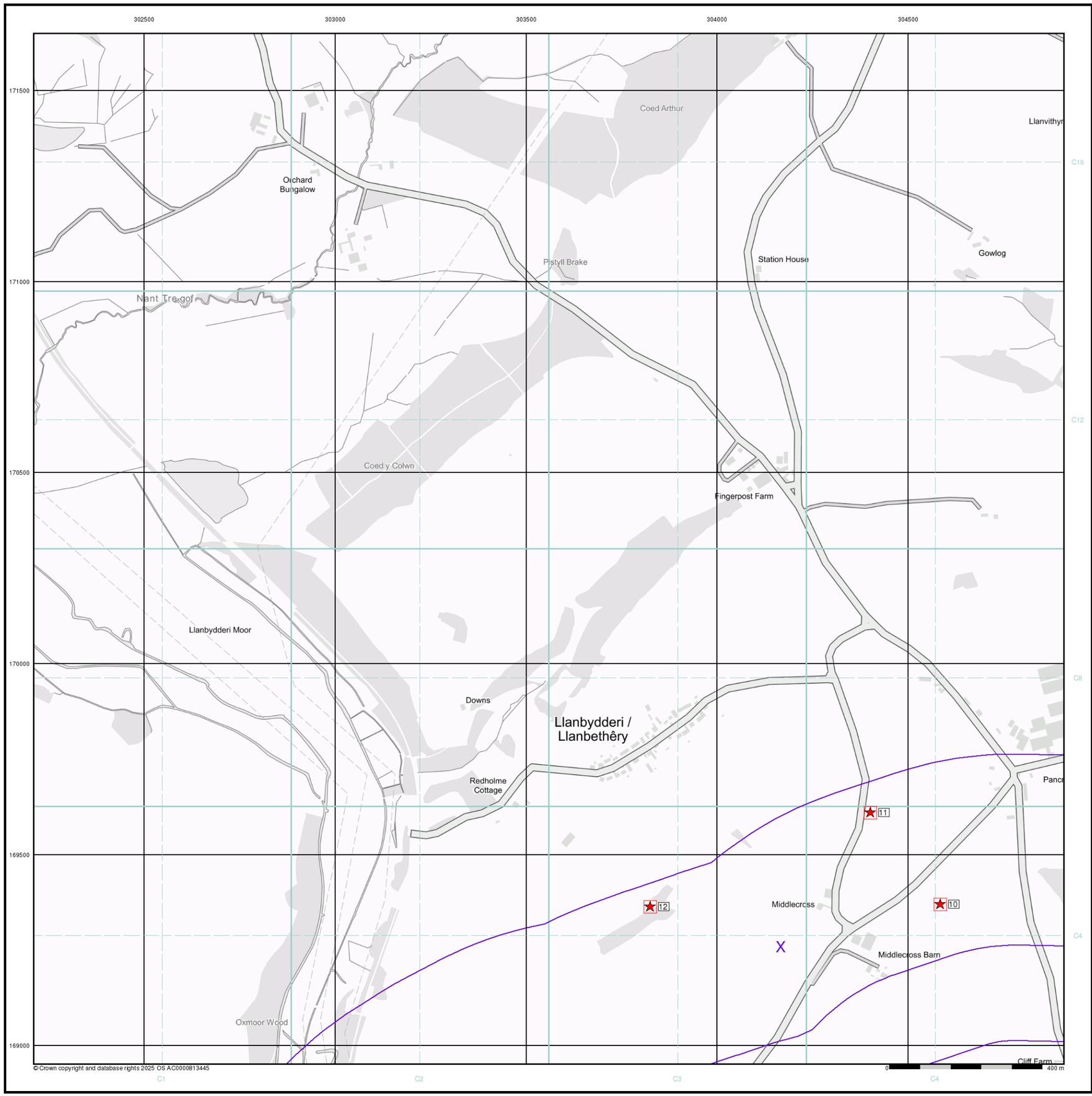

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Industrial Land Use Map

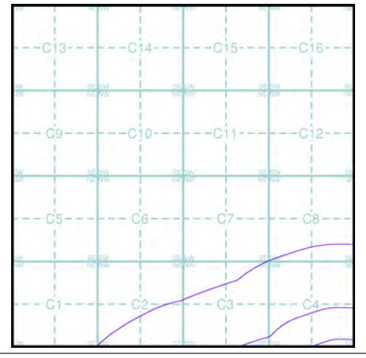
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- 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 C



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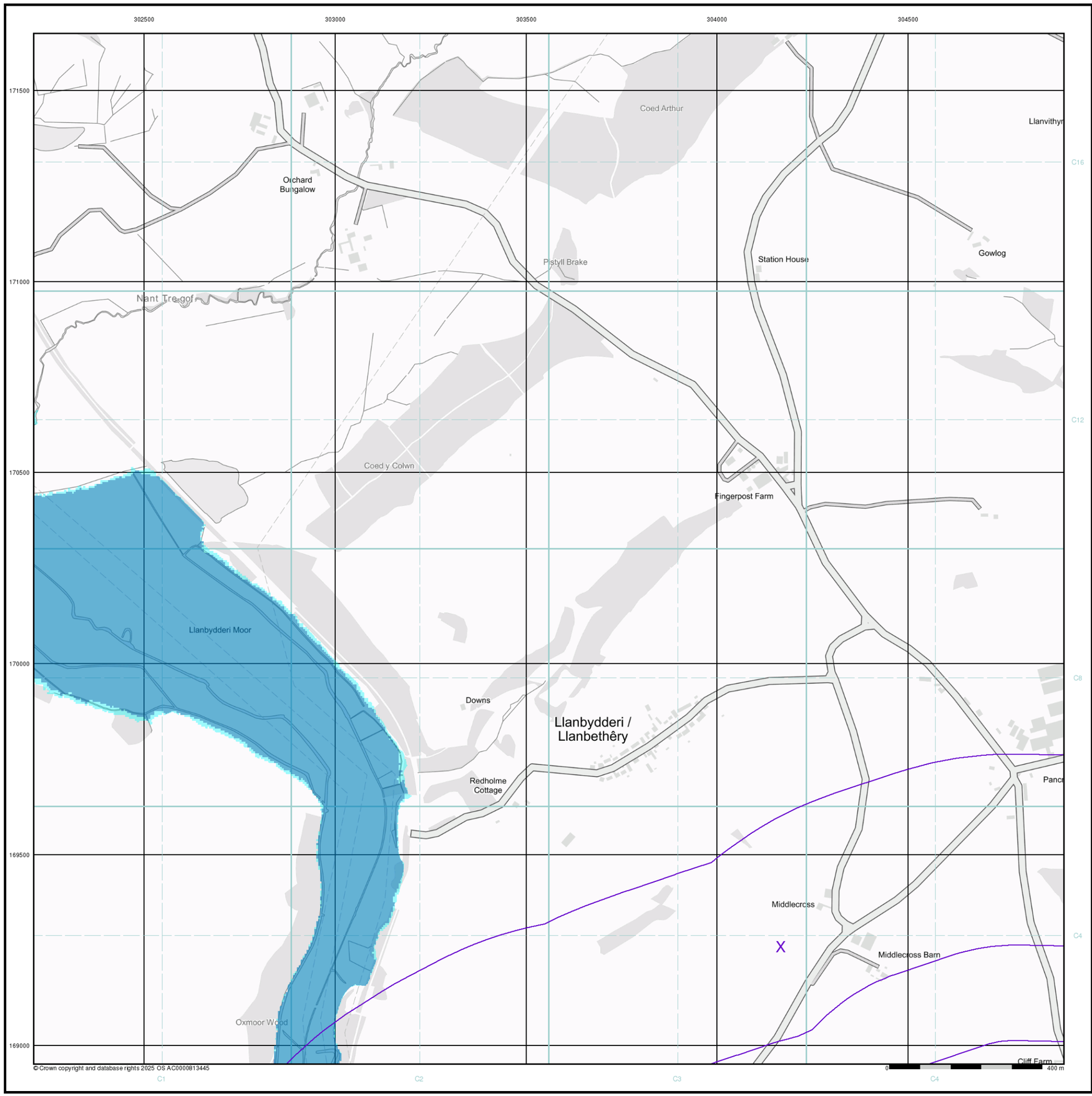

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LANDMARK INFORMATION GROUP®

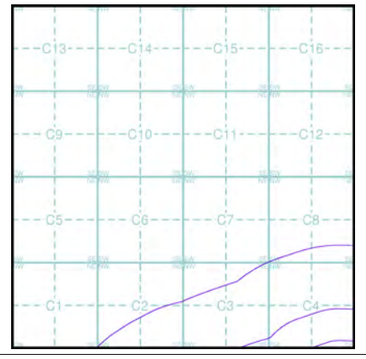
General

- Specified Site
- Specified Buffer(s)
- 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 C



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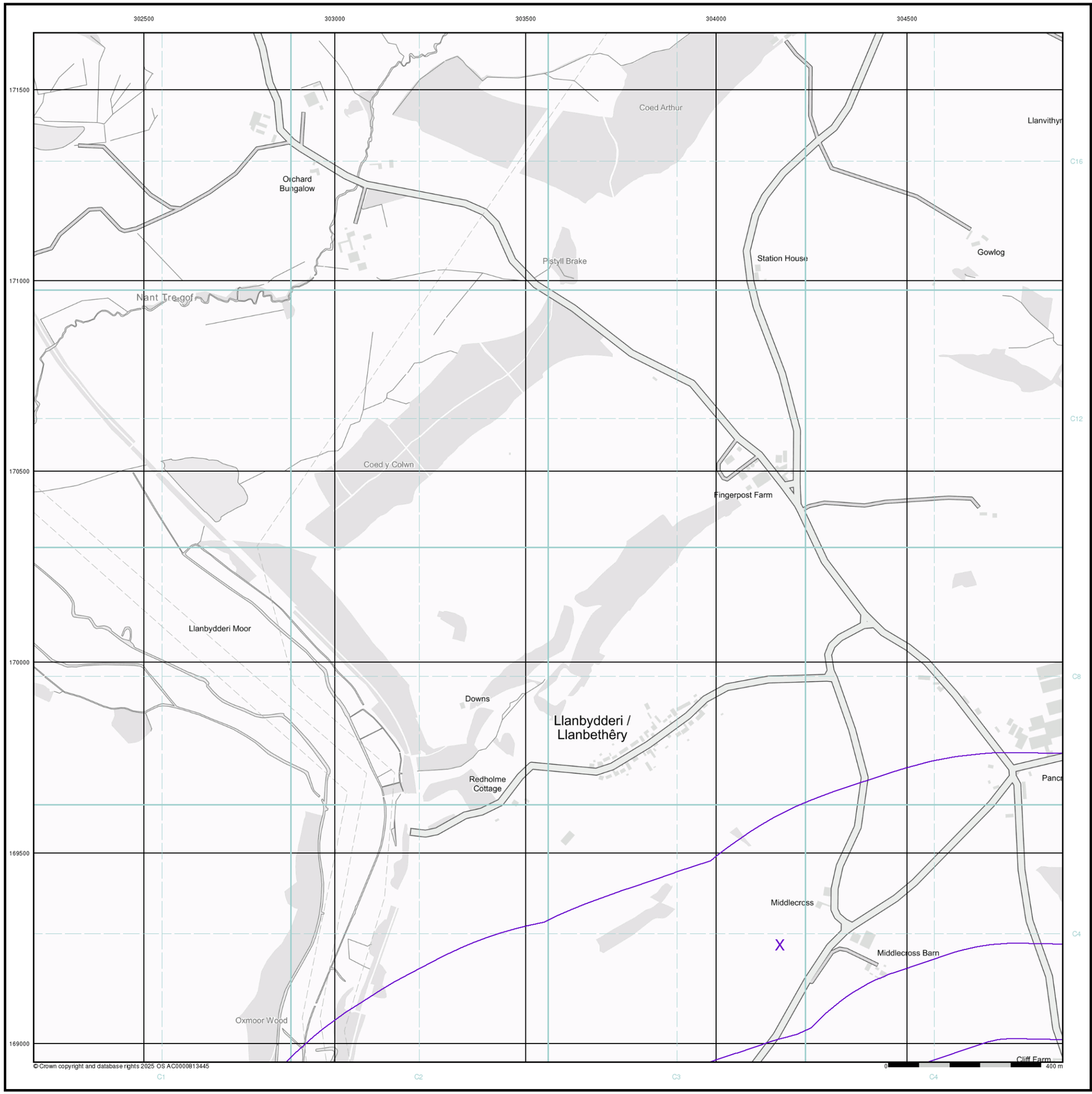

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LANDMARK INFORMATION GROUP®

General

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

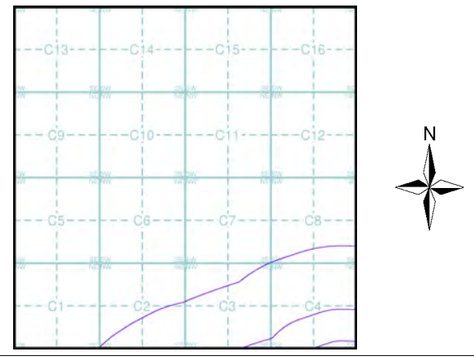
Agency and Hydrological (Boreholes)

- 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 C



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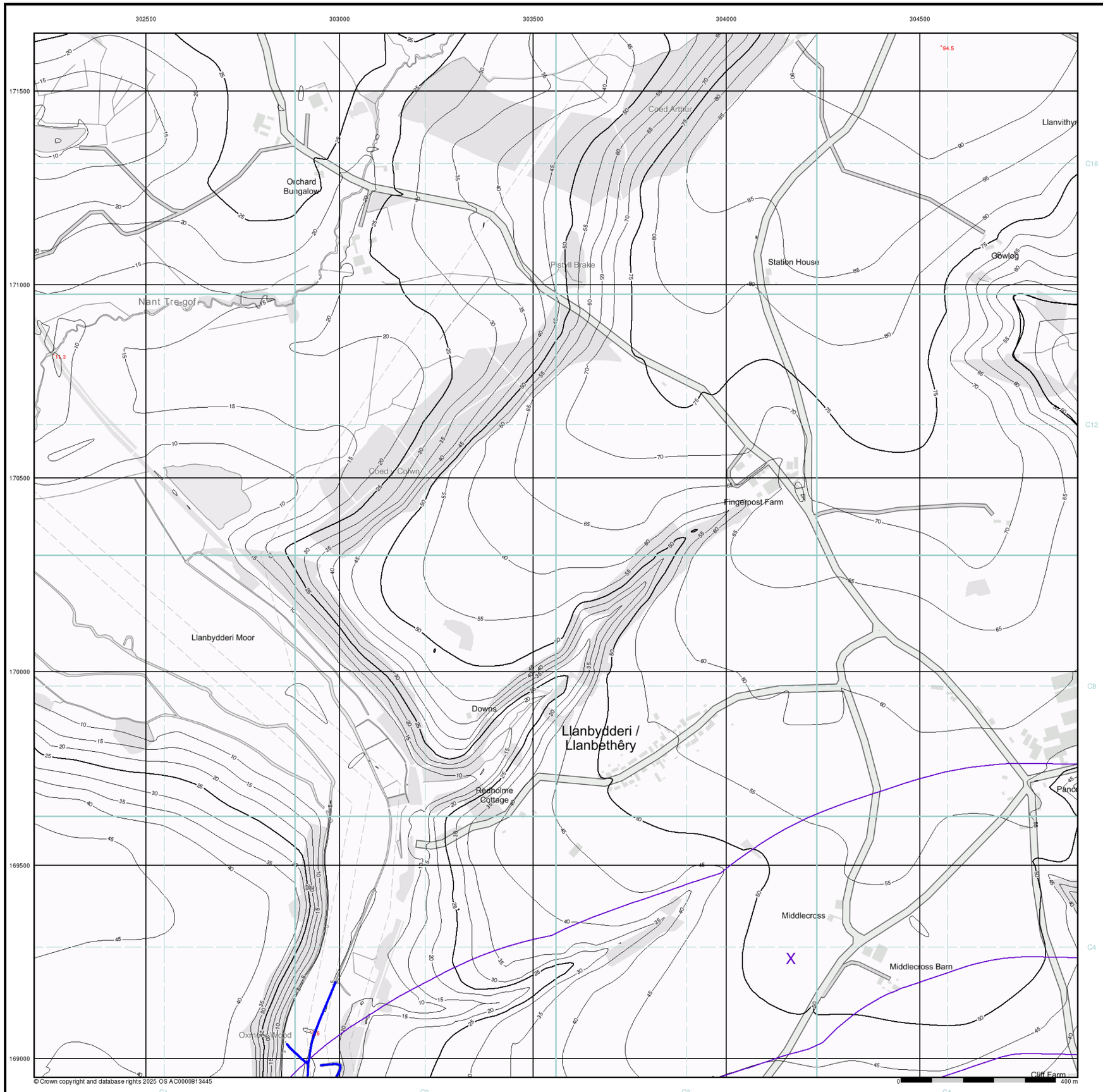

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LANDMARK INFORMATION GROUP®

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)

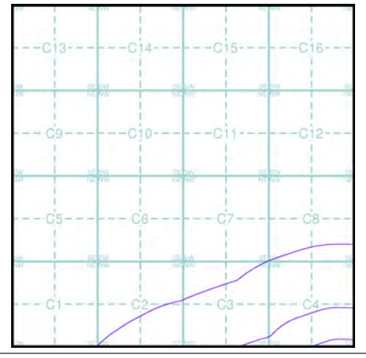
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice C



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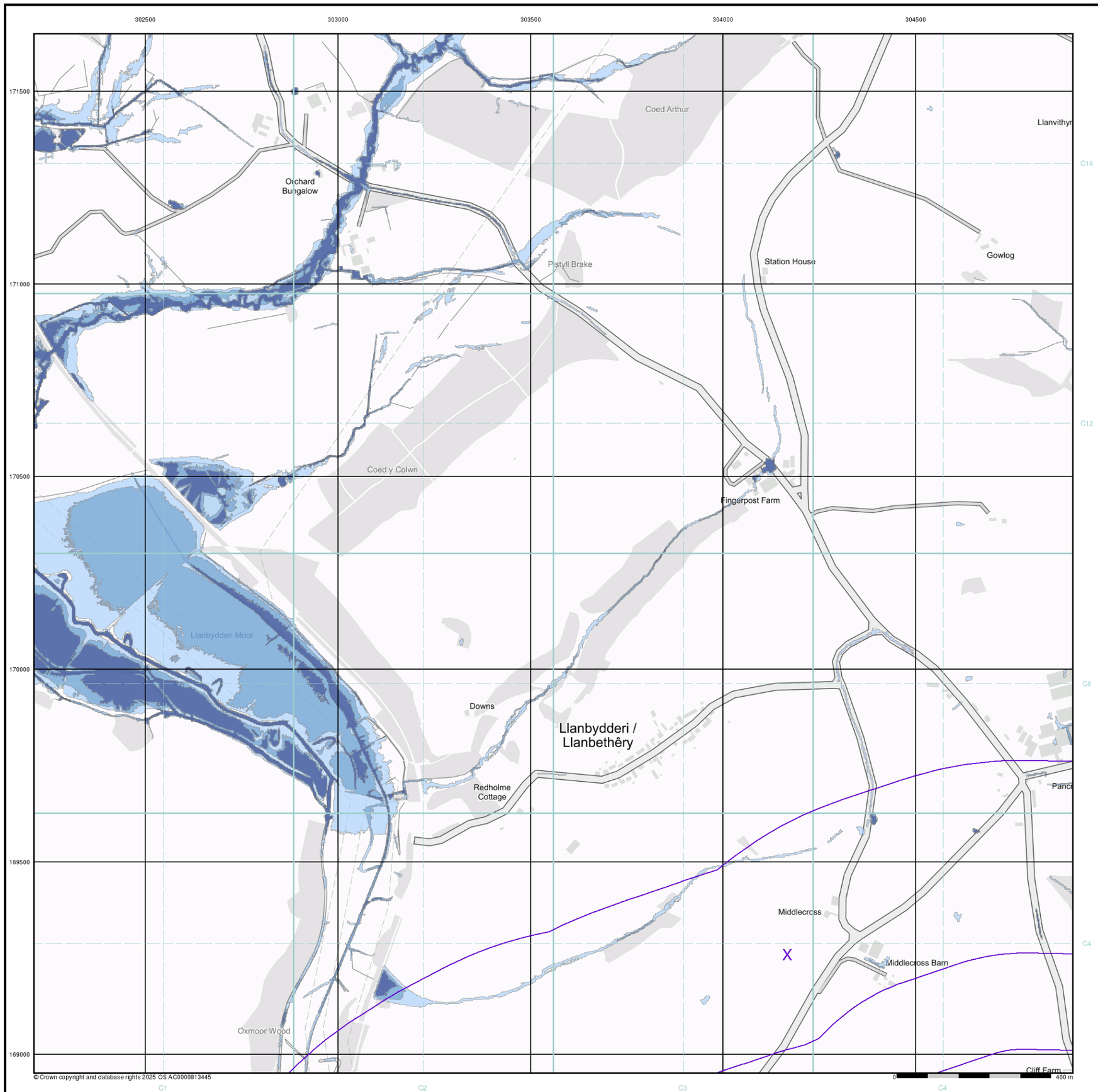

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LANDMARK INFORMATION GROUP®

General

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

Risk of Flooding from Surface Water

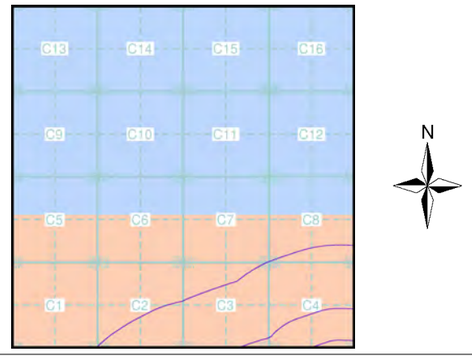
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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 C



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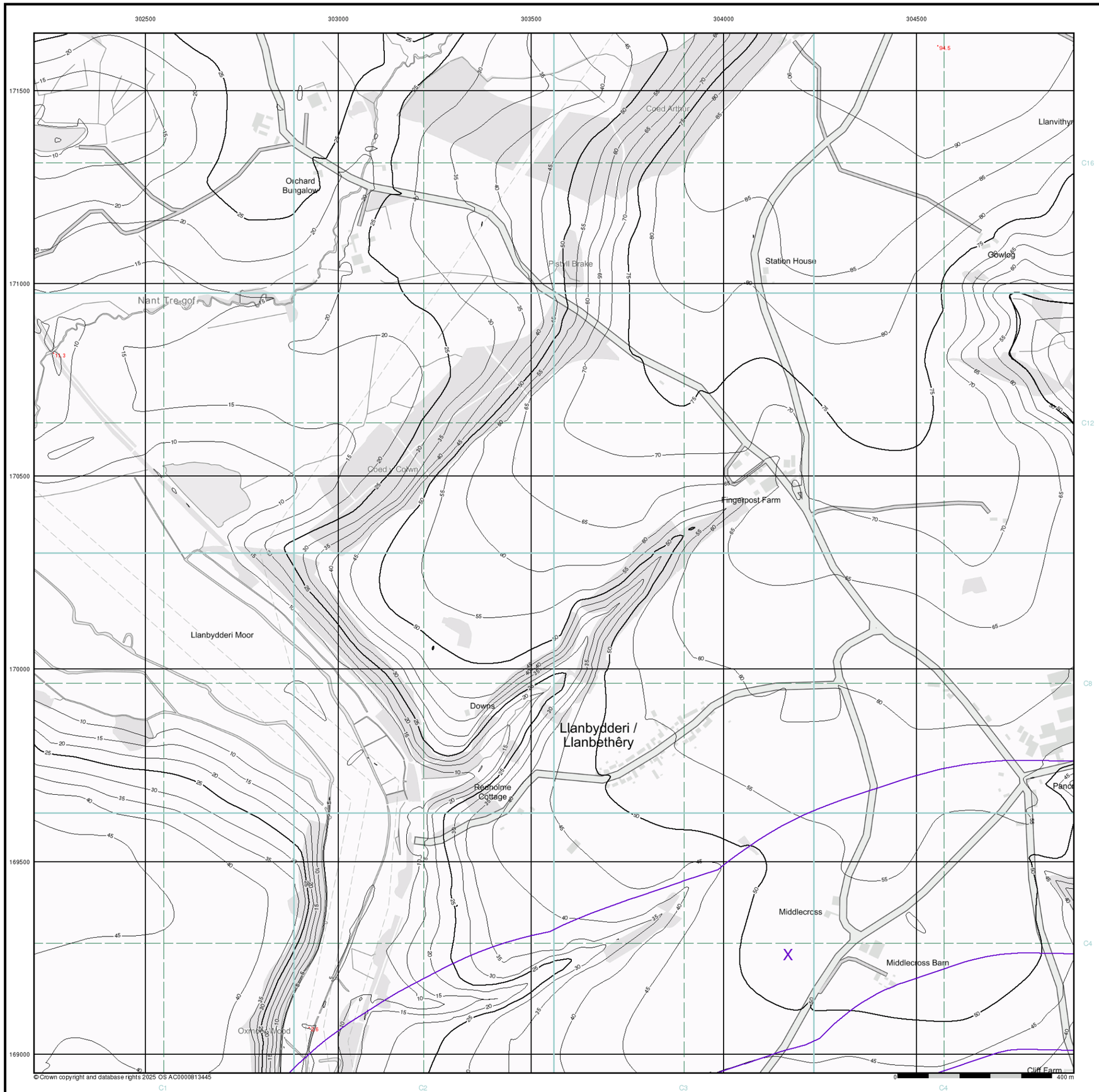

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WFD Surface Waters Map

General

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

Slice | Map ID

Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

Standard Contour

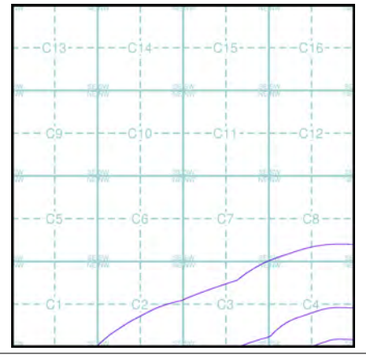
Master Contour

Spot Height 167.3

MLW Mean Low Water

MHW Mean High Water

WFD Surface Waters Map - Slice C



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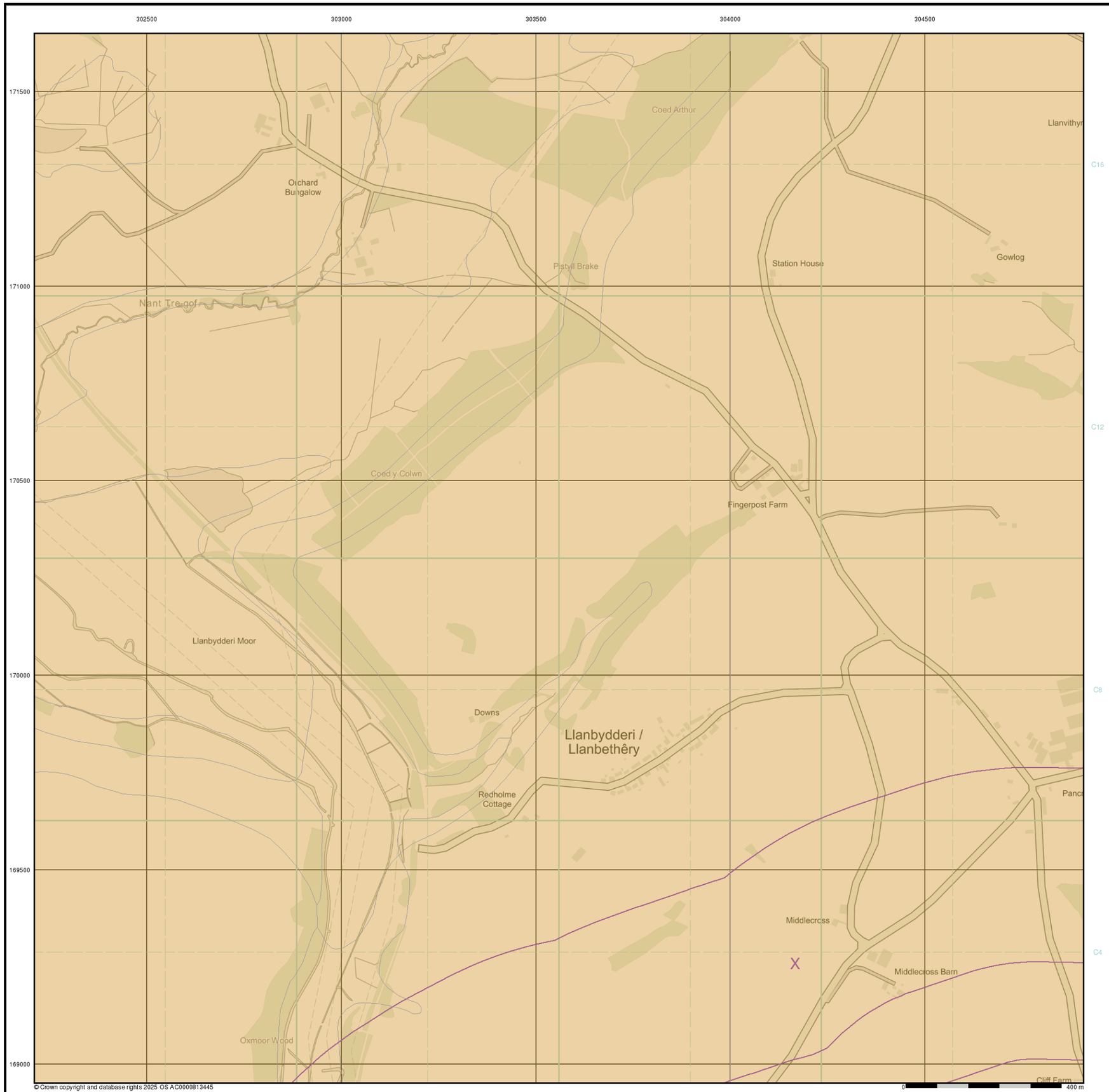

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LANDMARK INFORMATION GROUP®

General

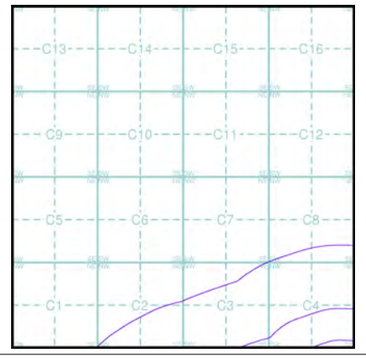
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 C



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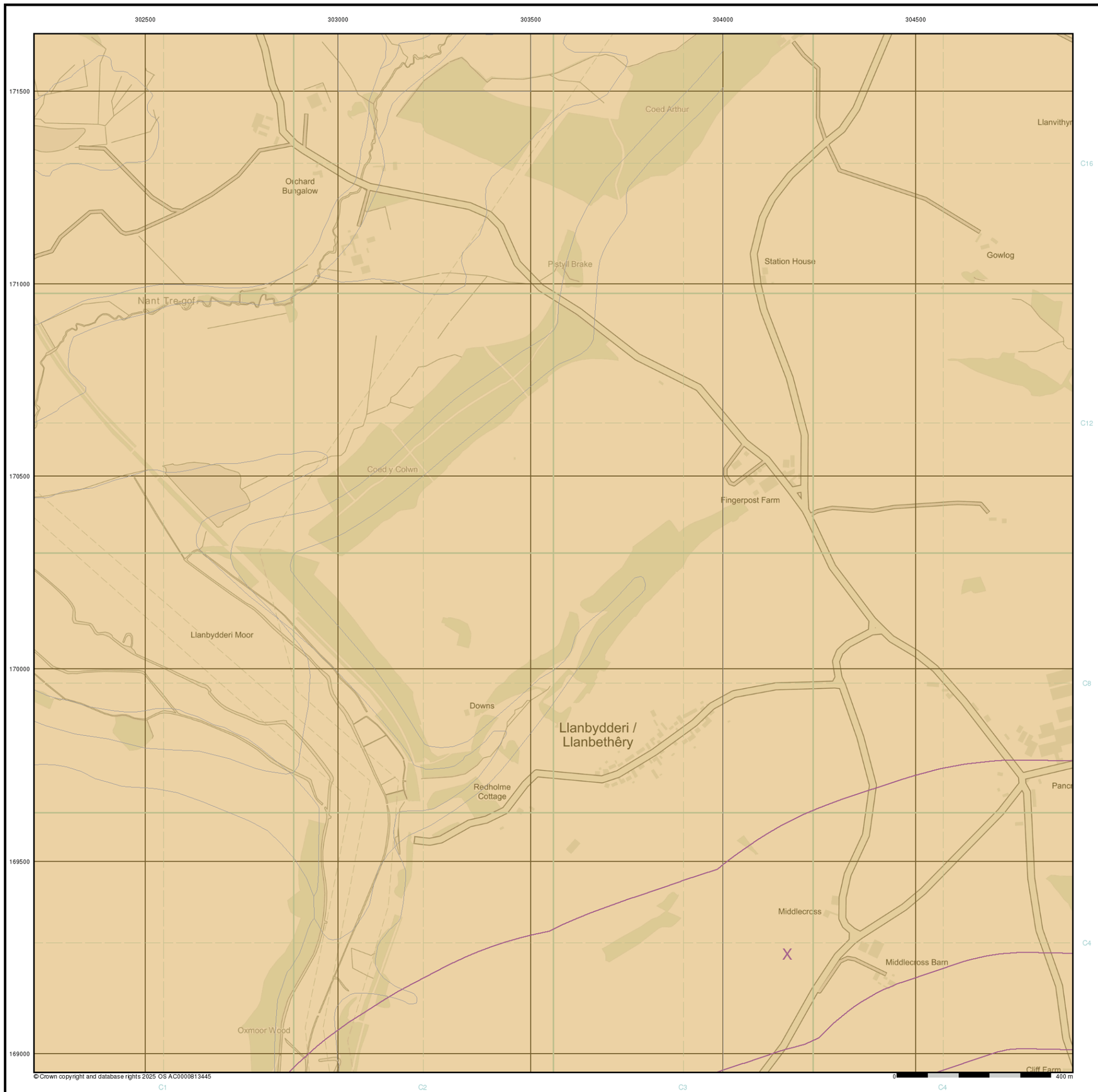


Envirocheck®

LANDMARK INFORMATION GROUP®

General

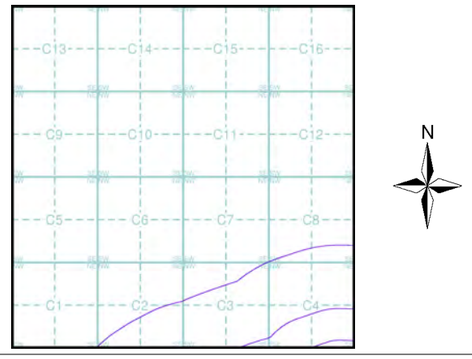
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 C



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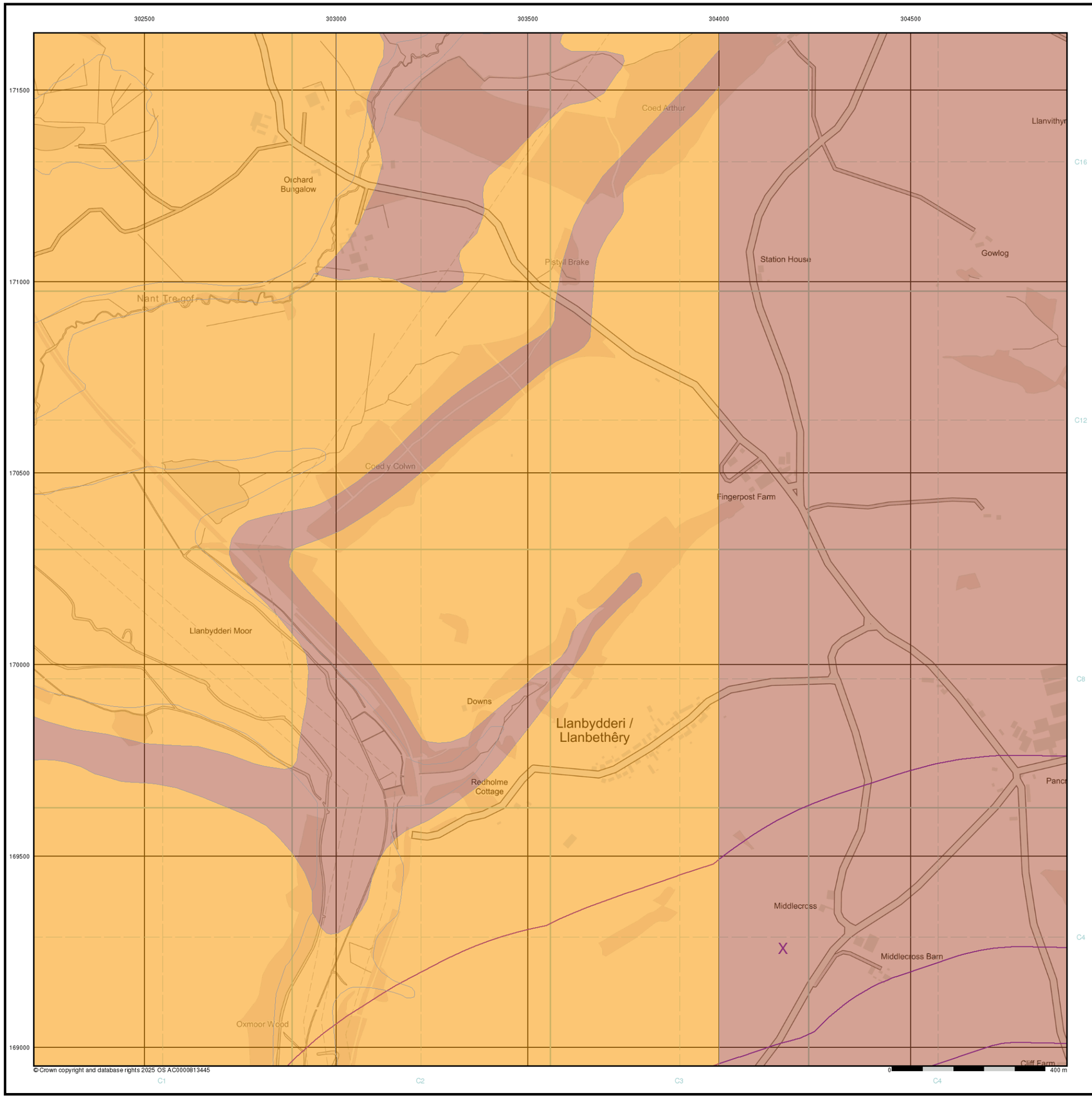


Envirocheck®

LANDMARK INFORMATION GROUP®

General

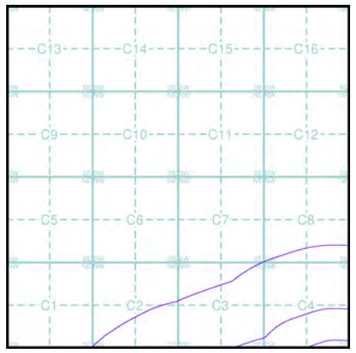
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 C



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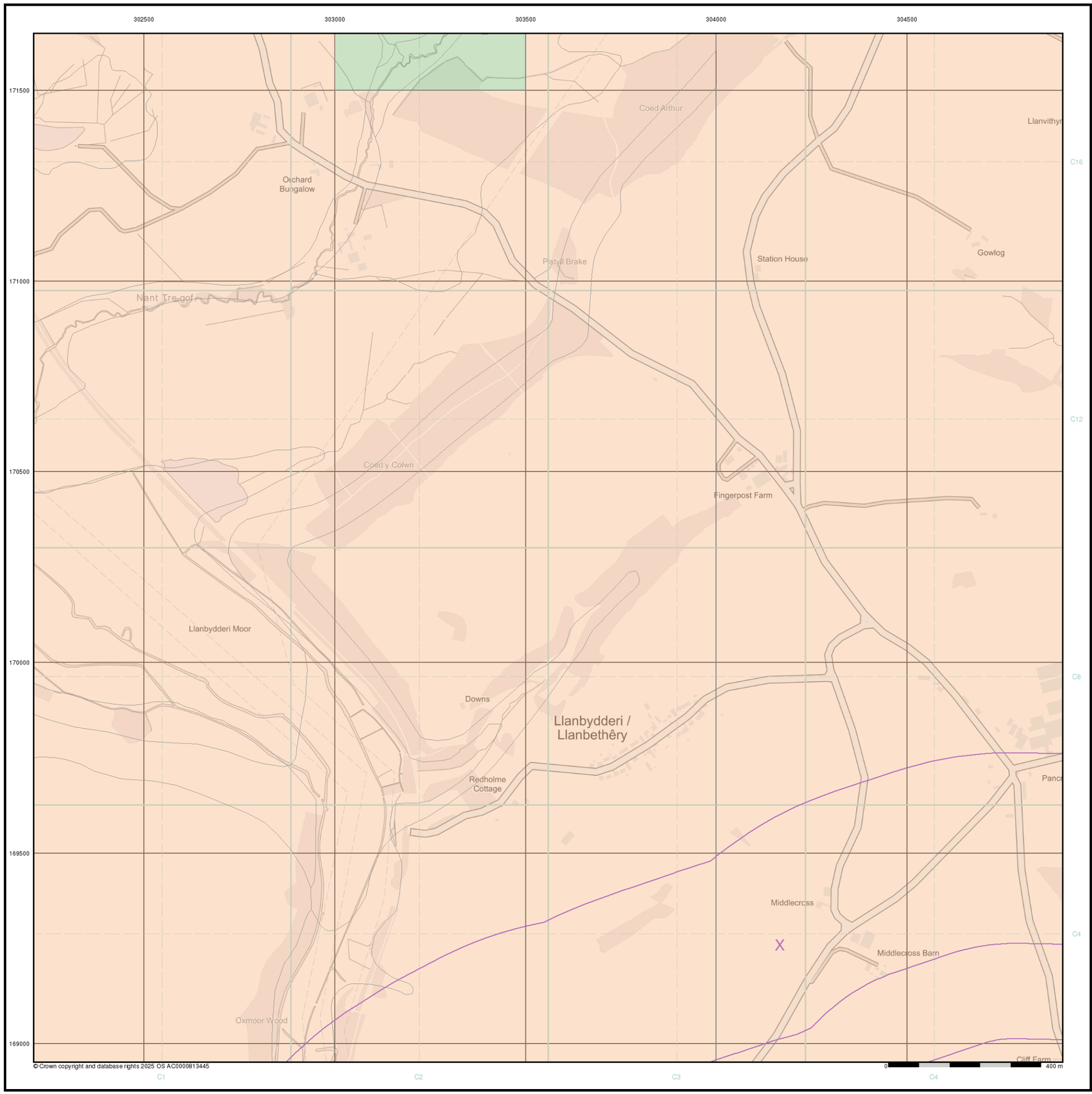


Envirocheck®

LANDMARK INFORMATION GROUP®

General

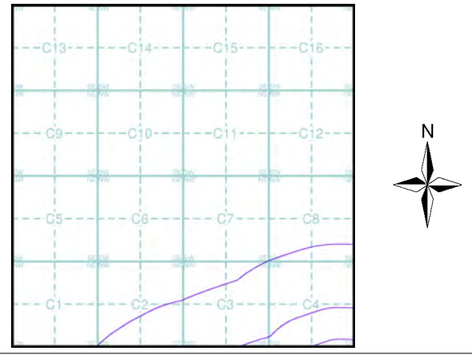
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 C



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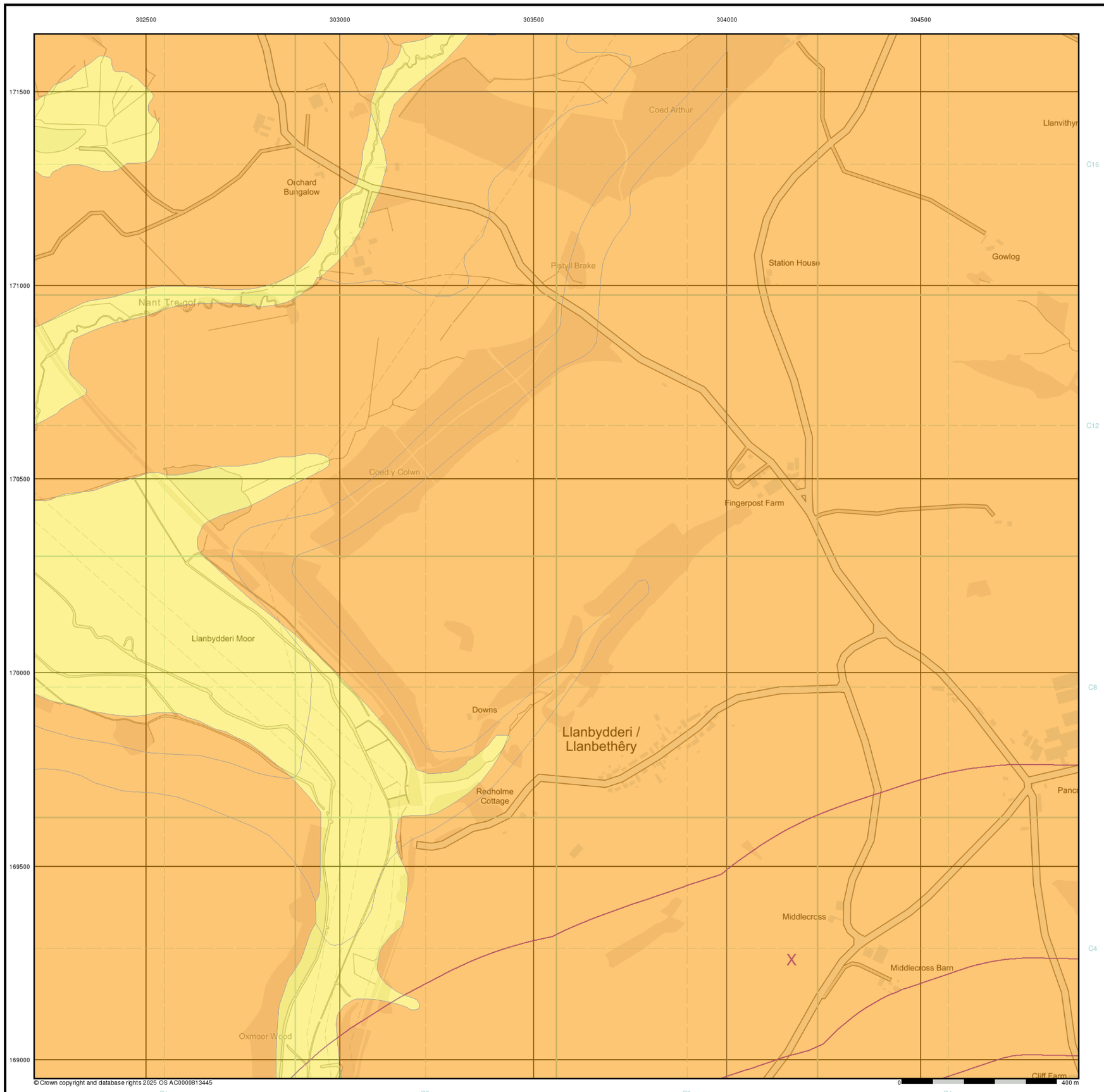
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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General

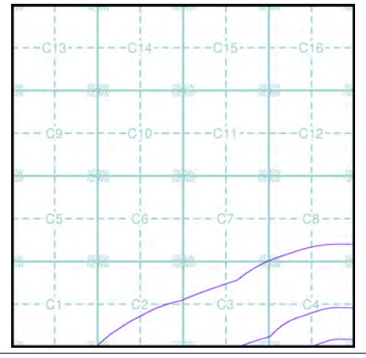
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 C



Order Details

Order Details:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	304170, 169260
Slice:	C
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
367701071_1_1

Customer Reference:
2025s0023

National Grid Reference:
305420, 169300

Slice:
D

Site Area (Ha):
40.66

Search Buffer (m):
1000

Site Details:

Site at
Llancadle/Llancatal
The Vale of Glamorgan

Client Details:

Miss A Atkins
JBA Consulting
Salt Mill
Saltaire
West Yorkshire
BD18 3LF

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Introduction

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

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England. The probability result is only valid for properties above ground. All basement and cellar areas are considered to be at additional risk from high radon levels. If an underground room such as a cellar or basement makes up part of the living or working accommodation, the property should be tested regardless of Radon Affected Area status.

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Local Authority Integrated Pollution Prevention And Control					
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Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 4		Yes		
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Water Abstractions					
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Groundwater Vulnerability Map	pg 5	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 6	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 6	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 6	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 6	Yes		n/a	n/a
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Flood Water Storage Areas				n/a	n/a
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OS Water Network Lines	pg 7		2	6	29
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Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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Planning Hazardous Substance Enforcements					

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Summary

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BGS 1:625,000 Solid Geology	pg 13	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 13	Yes		Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
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Natural Cavities					
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Potential for Collapsible Ground Stability Hazards	pg 15	Yes		n/a	n/a
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Potential for Ground Dissolution Stability Hazards	pg 16	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 16	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 17	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 17	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 17	Yes	n/a	n/a	n/a
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National Parks					
Nitrate Sensitive Areas					
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Ramsar Sites					
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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	(SW)	0	1	304250 168400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	0	1	305200 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	305000 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	305000 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	305050 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	305100 168650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	304800 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	304950 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	305000 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	304750 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	304700 168550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	305100 168900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	304250 168500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	304350 168500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	304550 168500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D1NW (W)	0	1	305000 169300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	0	1	305000 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D1SW (W)	0	1	305200 169250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D1SE (S)	1	1	305422 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	2	1	305150 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	14	1	304650 168350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	19	1	305250 168750

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	(SW)	48	1	304700 168350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	83	1	304750 168350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	106	1	305300 168600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	115	1	305250 168900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	116	1	305300 168850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	118	1	304800 168300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	130	1	305350 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	144	1	305050 168950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	157	1	305350 168850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	175	1	305400 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D1SE (SW)	209	1	305250 169000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	222	1	305422 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D1SW (SW)	241	1	305000 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D1SW (SW)	249	1	305100 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D1SE (SW)	252	1	305250 169150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D1SE (SW)	257	1	305250 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	263	1	305450 168750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(S)	271	1	305450 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D1SE (SW)	272	1	305300 169050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D1SE (SW)	306	1	305250 169100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D1SE (S)	319	1	305350 169100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D1SW (SW)	352	1	305150 169150

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	D1SW (SW)	402	1	305200 169200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D1SE (SW)	405	1	305250 169200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D1SE (S)	407	1	305422 169150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D1NE (W)	415	1	305422 169300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	418	1	305600 168800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D1NW (W)	443	1	305050 169300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D1SE (W)	455	1	305250 169250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	463	1	305650 168700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D1SE (SE)	499	1	305500 169150
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Llancarfan Stw Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Ag0009201 Permit Version: 2 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: 5th May 2014 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Llancarfan **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	D1NW (NW)	802	2	305150 169550
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Llancarfan Stw Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AG0009201 Permit Version: 1 Effective Date: 12th February 1982 Issued Date: 12th February 1982 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Llancarfan **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	D1NW (NW)	802	2	305150 169550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Llancarfan Wastewater Treatment Works, Barry, Vale Of Glamorgan, Cf62 3ag Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Ag0009201 Permit Version: Not Supplied Effective Date: 21st August 2020 Issued Date: 21st August 2020 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Llancarfan **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	D1NW (NW)	850	2	305166 169598
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Llancarfan Stw Authority: Natural Resources Wales Catchment Area: LLANCARFAN Reference: Ag0009201 Permit Version: 3 Effective Date: 6th May 2014 Issued Date: 6th May 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Llancarfan **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	D1NW (NW)	850	2	305166 169598
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Llancarfan Stw Authority: Natural Resources Wales Catchment Area: LLANCARFAN Reference: Ag0009201 Permit Version: 3 Effective Date: 6th May 2014 Issued Date: 6th May 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Llancarfan **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	D1NW (NW)	850	2	305166 169598
	Nearest Surface Water Feature	D1SE (S)	47	-	305375 169093
3	**Pollution Incidents to Controlled Waters** Property Type: Cattle Beef Farming: Yards Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Weather Incident Date: 7th December 1994 Incident Reference: 22070 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	D5SE (N)	964	3	305300 169700
4	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: Not Supplied Incident Reference: 2000528 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Agricultural Materials And Wastes: Slurry And Dilute Slurry	D1NW (NW)	853	2	305127 169601

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 30th August 2005 Incident Reference: 342225 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: Agricultural Materials And Wastes: Slurry And Dilute Slurry	D1NW (NW)	863	2	305146 169611
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SW)	0	2	304931 168713
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SW)	0	2	305000 168728
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial 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: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	D1SW (SW)	0	2	305232 169000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SW)	0	2	305000 168606

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	D1SW (SW)	0	2	304980 168994
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SW)	0	2	305086 168883
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	D1SE (S)	0	2	305422 169000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	D1NE (W)	0	2	305422 169300
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	D1NW (W)	0	2	305000 169300
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(SW)	0	2	305000 168728
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(SW)	0	2	304931 168713
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	D1SE (S)	0	2	305408 169134
	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	D1SE (S)	0	2	305460 169160
	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	D1SE (S)	0	2	305475 169155
	Areas Benefiting from Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Water Storage Areas None				
	Flood Defences None				
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 439.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Llancarfan Catchment Name: Thaw Cadoxton Primacy: 1	D1SW (W)	99	4	305043 169197
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 774.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Waycock Catchment Name: Thaw Cadoxton Primacy: 1	D1SE (S)	99	4	305463 169131
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 192.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1SW (W)	404	4	305161 169254
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1SW (W)	437	4	305068 169187
9	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1SW (W)	438	4	305065 169189
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Llancarfan Catchment Name: Thaw Cadoxton Primacy: 1	D1SW (W)	445	4	305061 169238
11	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1SW (W)	487	4	305063 169277
12	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 336.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Llancarfan Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (W)	487	4	305114 169330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1SW (W)	505	4	305160 169257
14	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (W)	509	4	305161 169296
15	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (W)	525	4	305066 169315
16	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 65.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (W)	564	4	305069 169335
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 103.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Waycock Catchment Name: Thaw Cadoxton Primacy: 1	D2SW (SE)	623	4	305708 169027
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 489.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D2SW (E)	623	4	305777 169267
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 159.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Waycock Catchment Name: Thaw Cadoxton Primacy: 1	D2SW (SE)	705	4	305809 169018
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D2SW (SE)	705	4	305834 169088
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Llancarfan Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	779	4	305174 169527

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	779	4	305177 169529
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	781	4	305181 169531
24	**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: Thaw Cadoxton Primacy: 1	D1NW (NW)	783	4	305191 169540
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 386.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Waycock Catchment Name: Thaw Cadoxton Primacy: 1	D2SE (SE)	815	4	305952 168968
26	**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: Thaw Cadoxton Primacy: 1	D2SE (SE)	815	4	305981 169025
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 201.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NE (N)	834	4	305422 169544
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Llancarfan Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	835	4	305164 169584
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 334.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ford Brook Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	835	4	305166 169585
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	838	4	305164 169588

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Llancarfan Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	840	4	305164 169588
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NE (N)	842	4	305348 169565
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NE (N)	845	4	305343 169571
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	846	4	305240 169592
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	846	4	305228 169591
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 77.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NE (N)	850	4	305314 169582
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	852	4	305130 169607
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	859	4	305130 169607
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D1NW (NW)	868	4	305129 169617

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thaw Cadoxton Primacy: 1	D5SW (NW)	894	4	305168 169646
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 391.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Llancarfan Catchment Name: Thaw Cadoxton Primacy: 1	D5SW (NW)	894	4	305159 169642
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Llancarfan WaterBody ID: GB110058026410 Operational Catchment: Thaw and Cadoxton Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	D1NE (N)	47	2	305400 169360
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Waycock - headwaters to confluence with Kenson WaterBody ID: GB110058026400 Operational Catchment: Thaw and Cadoxton Management Catchment: Tawe to Cadoxton Catchment Name: Not Supplied	D1NE (W)	129	2	305422 169300
	Water Framework Directive - Groundwater Waterbody Name: Thaw & Cadoxtan Jurassic Lias Waterbody ID: GB41002G201400 URL Address: Not Available Overall Rating: Good Chemical Rating: Good Quantitative Measure: Good Year: 2023	D1NE (W)	0	2	305422 169300
42	**Water Framework Directive - Surface Waters** Class Code: River Waterbody Name: Waycock - headwaters to confluence with Kenson Waterbody ID: GB110058026400 URL Address: Not Supplied Overall Rating: Moderate Chemical Rating: High Classification Year: 2023	D1SE (S)	100	2	305465 169131
43	**Water Framework Directive - Surface Waters** Class Code: River Waterbody Name: Llancarfan Waterbody ID: GB110058026410 URL Address: Not Supplied Overall Rating: Poor Chemical Rating: High Classification Year: 2023	D1NW (W)	100	2	305114 169331

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Vale Of Glamorgan County Borough Council - Has supplied landfill data		0	5	305422 169300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lias Group	D1NE (W)	0	1	305422 169300
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D1SW (SW)	0	1	305242 169067
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	D1NW (W)	0	1	305072 169355
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D1NE (W)	254	1	305422 169300
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D1SE (S)	266	1	305414 169061
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	D1SE (S)	300	1	305415 169095
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	D1SE (S)	300	1	305408 169134

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	D1SE (S)	332	1	305436 169221
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	D1SW (W)	363	1	305171 169264
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D1SW (SW)	373	1	305168 169180
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D1SW (W)	424	1	305074 169285
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D2SW (SE)	610	1	305651 169100
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D2SW (SE)	613	1	305664 169076

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D2SW (SE)	651	1	305747 169017
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D1NW (NW)	761	1	305189 169522
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D1NE (NW)	867	1	305272 169606
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	D2SE (SE)	893	1	306023 169000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 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	D5SE (N)	972	1	305329 169714
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1NW (W)	0	1	305000 169300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	305086 168883
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	0	1	305415 169095
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	0	1	305408 169134
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D1SW (W)	209	1	305000 169181
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	0	1	305408 169134
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D1NW (W)	0	1	305000 169300
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	0	1	305415 169095
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	305086 168883
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SW (W)	209	1	305000 169181
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1NE (W)	0	1	305422 169300
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1NW (W)	0	1	305000 169300
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1NE (W)	0	1	305422 169300
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1SE (SE)	0	1	305542 169124
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1NW (W)	0	1	305000 169300
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	0	1	305417 169185
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D1SW (W)	23	1	305083 169283
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SW)	96	1	305091 168902
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	163	1	305414 169100
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SW (W)	209	1	305000 169181
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	237	1	305166 169022
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	240	1	305000 169088

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	305086 168883
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D1NW (W)	0	1	305000 169300
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	0	1	305415 169095
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	0	1	305408 169134
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D1SW (W)	209	1	305000 169181
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	0	1	305242 169067
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	0	1	305414 169061
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	305086 168883
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D1NW (W)	0	1	305000 169300
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1SW (W)	209	1	305000 169181
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	D1NW (W)	0	1	305000 169300
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Higher probability radon area (10 to 30% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	D1SE (SW)	0	1	305250 169100
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D1NW (W)	0	1	305000 169300
	Radon Potential - Radon Protection Measures Protection Measure: Full radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D1SE (SW)	0	1	305250 169100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	**Points of Interest - Manufacturing and Production** Name: A L Rees Location: Llancarfan, Barry, CF62 3AG Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	D1NE (NW)	723	6	305356 169440
45	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: CF62 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	D5SW (NW)	953	6	305238 169697
45	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: CF62 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	D5SW (NW)	974	6	305199 169721

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**Ancient Woodland** Name: Not Supplied Reference: 41870 Area(m²): 5038.38 Type: Plantation on Ancient Woodland	(SW)	0	2	304775 168622
47	**Ancient Woodland** Name: Not Supplied Reference: 10040 Area(m²): 1401.58 Type: Restored Ancient Woodland Site	(SW)	0	2	304576 168592
48	**Ancient Woodland** Name: Not Supplied Reference: 11317 Area(m²): 14696.9 Type: Restored Ancient Woodland Site	(SW)	0	2	304754 168778
49	**Ancient Woodland** Name: Not Supplied Reference: 18043 Area(m²): 1383.35 Type: Ancient and Semi-Natural Woodland	(SW)	0	2	304573 168284
50	**Ancient Woodland** Name: Not Supplied Reference: 39582 Area(m²): 22103.56 Type: Plantation on Ancient Woodland	(SW)	0	2	304668 168332
51	**Ancient Woodland** Name: Not Supplied Reference: 7920 Area(m²): 59415.18 Type: Ancient and Semi-Natural Woodland	(SW)	0	2	304574 168341
52	**Ancient Woodland** Name: Not Supplied Reference: 7920 Area(m²): 40561.39 Type: Ancient and Semi-Natural Woodland	(SW)	0	2	304696 168411
53	**Ancient Woodland** Name: Not Supplied Reference: 12219 Area(m²): 8055.45 Type: Ancient and Semi-Natural Woodland	(SW)	0	2	304709 168588
54	**Ancient Woodland** Name: Not Supplied Reference: 17968 Area(m²): 13402.05 Type: Ancient and Semi-Natural Woodland	(SW)	6	2	305149 168847
55	**Ancient Woodland** Name: Not Supplied Reference: 41881 Area(m²): 4602.34 Type: Plantation on Ancient Woodland	(SW)	57	2	304775 168190
56	**Ancient Woodland** Name: Not Supplied Reference: 17970 Area(m²): 51384.43 Type: Ancient and Semi-Natural Woodland	D1SE (S)	121	2	305417 169088
57	**Ancient Woodland** Name: Not Supplied Reference: 7474 Area(m²): 13560.16 Type: Ancient and Semi-Natural Woodland	(SW)	141	2	304775 168346
58	**Ancient Woodland** Name: Not Supplied Reference: 17969 Area(m²): 1657.63 Type: Ancient and Semi-Natural Woodland	D1SW (SW)	226	2	305169 169024
59	**Ancient Woodland** Name: Not Supplied Reference: 8018 Area(m²): 16155.74 Type: Ancient and Semi-Natural Woodland	D1SW (SW)	242	2	305231 169174

Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**Ancient Woodland** Name: Not Supplied Reference: 17972 Area(m²): 2791.62 Type: Ancient and Semi-Natural Woodland	D1SW (SW)	271	2	305227 169121
61	**Ancient Woodland** Name: Not Supplied Reference: 17961 Area(m²): 4552.44 Type: Ancient and Semi-Natural Woodland	(S)	367	2	305598 168730
62	**Ancient Woodland** Name: Not Supplied Reference: 17976 Area(m²): 1300.75 Type: Ancient and Semi-Natural Woodland	D1SW (W)	433	2	305042 169255
63	**Ancient Woodland** Name: Not Supplied Reference: 8021 Area(m²): 19763.32 Type: Ancient and Semi-Natural Woodland	D1NW (W)	444	2	305059 169293
64	**Ancient Woodland** Name: Not Supplied Reference: 8016 Area(m²): 23743.55 Type: Ancient and Semi-Natural Woodland	(SE)	758	2	305963 168937
65	**Ancient Woodland** Name: Not Supplied Reference: 17973 Area(m²): 8595.73 Type: Ancient and Semi-Natural Woodland	D2SE (E)	849	2	305949 169131

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Vale Of Glamorgan County Borough Council - Environmental Health Department	January 2020	Annual Rolling Update
Natural Resources Wales	November 2023	Annually
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	November 2024	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	July 2024	Quarterly
Natural Resources Wales	November 2024	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Variable
Local Authority Pollution Prevention and Controls		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Vale Of Glamorgan County Borough Council - Environmental Health Department	June 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	November 2024	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Historical Prosecutions		
Environment Agency, Welsh Region	March 2013	Not Applicable
Natural Resources Wales	March 2013	Not Applicable
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	
Substantiated Pollution Incident Register		
Environment Agency Wales - South East Area	January 2021	Quarterly
Natural Resources Wales	November 2024	Quarterly
Water Abstractions		
Natural Resources Wales	December 2024	Quarterly
Environment Agency - Welsh Region	October 2024	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	As notified
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	

Agency & Hydrological	Version	Update Cycle
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	
OS Water Network Lines Ordnance Survey	October 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water Suitability Natural Resources Wales	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Water Framework Directive - Catchment Natural Resources Wales	July 2024	Annually
Water Framework Directive - Groundwater Natural Resources Wales	July 2024	Annually
Water Framework Directive - Surface Waters Natural Resources Wales	November 2024	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Natural Resources Wales Environment Agency Wales - South East Area	August 2024 January 2023	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	July 2024 November 2024	Quarterly Quarterly
Local Authority Landfill Coverage Vale Of Glamorgan County Borough Council	February 2003	Not Applicable
Local Authority Recorded Landfill Sites Vale Of Glamorgan County Borough Council	October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency Wales - South East Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September 2024	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Vale Of Glamorgan County Borough Council - Planning Department	January 2016	Variable
Planning Hazardous Substance Consents Vale Of Glamorgan County Borough Council - Planning Department	January 2016	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	March 2024	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	November 2024	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	November 2024	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	December 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Points of Interest - Commercial Services PointX	December 2024	Quarterly
Points of Interest - Education and Health PointX	December 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2024	Quarterly
Points of Interest - Public Infrastructure PointX	December 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	October 2024	Bi-Annually
Areas of Adopted Green Belt Vale Of Glamorgan County Borough Council	July 2024	Quarterly
Areas of Unadopted Green Belt Vale Of Glamorgan County Borough Council	July 2024	Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	November 2024	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Vale Of Glamorgan County Borough Council	August 2024	Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2024	Bi-Annually
National Nature Reserves Natural Resources Wales	January 2025	Bi-Annually
National Parks Natural Resources Wales	September 2024	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 November 2024	Bi-Annually
Ramsar Sites Natural Resources Wales	August 2024	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	November 2024	Bi-Annually
Special Areas of Conservation Natural Resources Wales	October 2024	Bi-Annually
Special Protection Areas Natural Resources Wales	November 2024	Bi-Annually

Data Suppliers

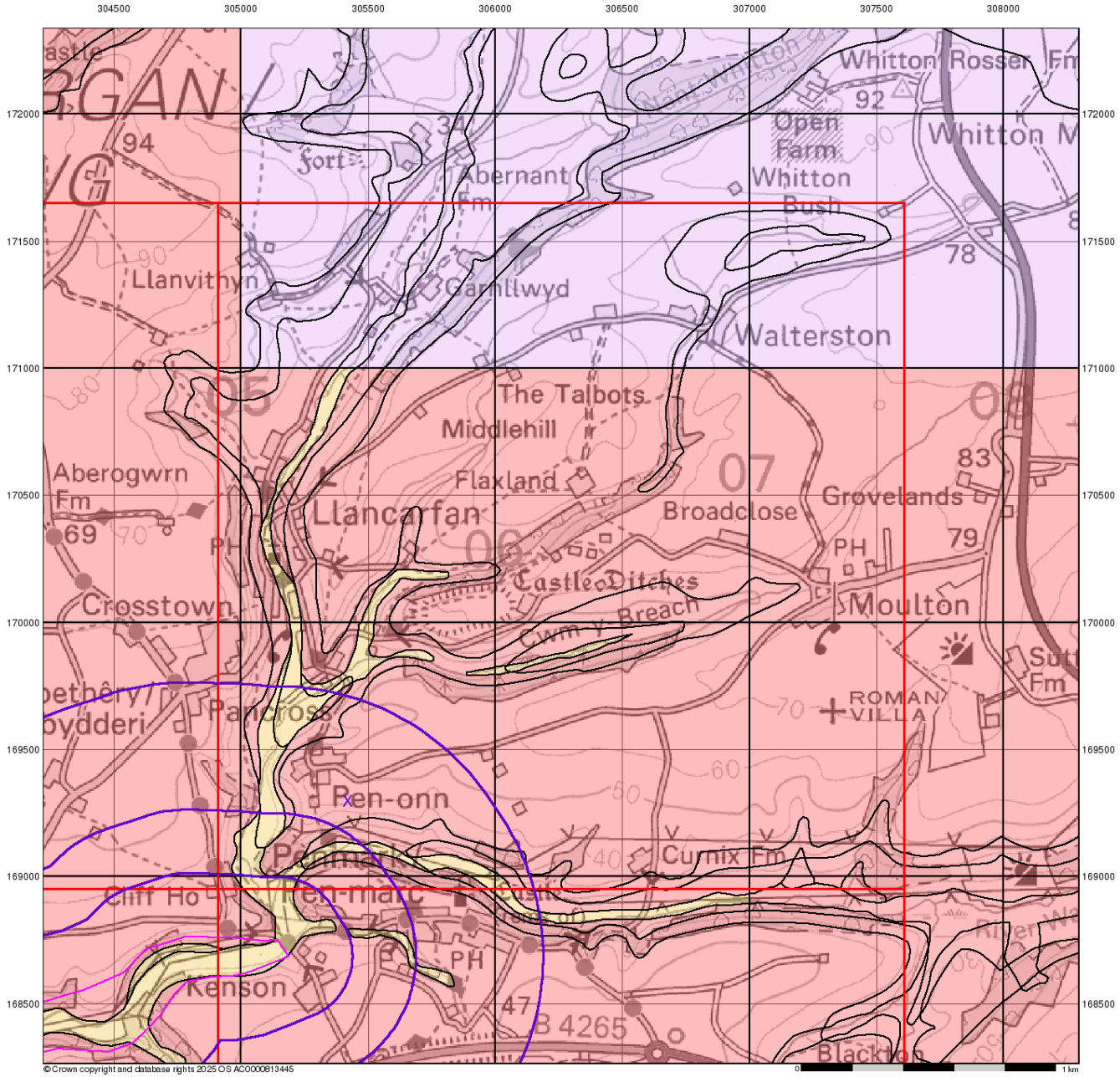
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
5	**Vale Of Glamorgan County Borough Council** Civic Offices, Holton Road, Barry, South Glamorgan, CF63 4RU	Telephone: 01446 700111 Fax: 01446 745566 Website: www.valeofglamorgan.gov.uk
6	**PointX** 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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



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Groundwater Vulnerability

General

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

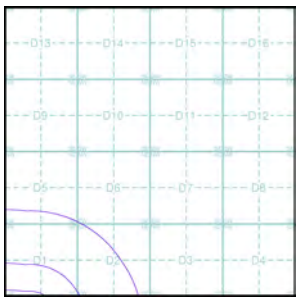
Agency and Hydrological

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 D



Order Details

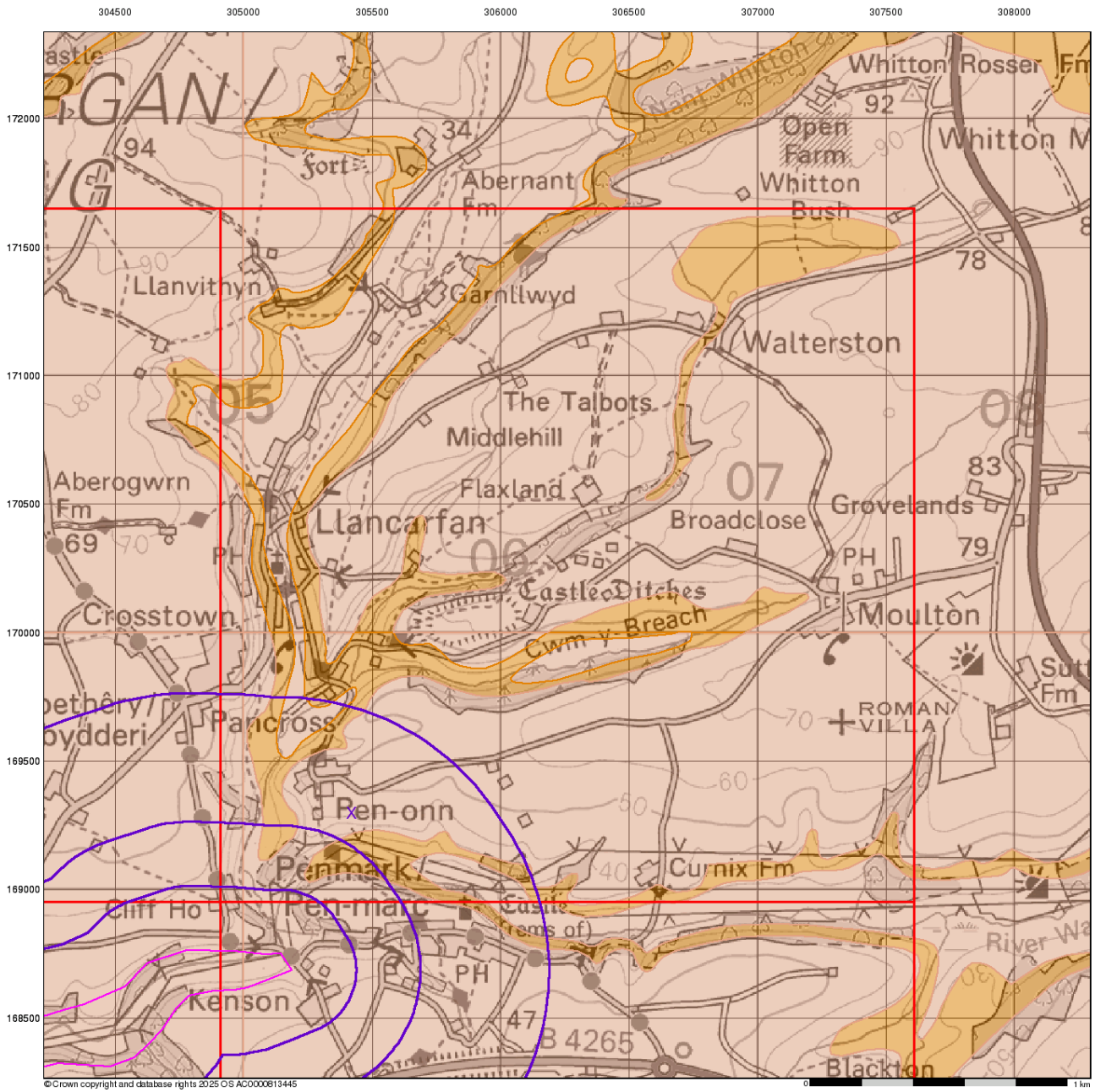
Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305420, 169300
Slice:	D
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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



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LANDMARK INFORMATION GROUP

Bedrock Aquifer Designation

General

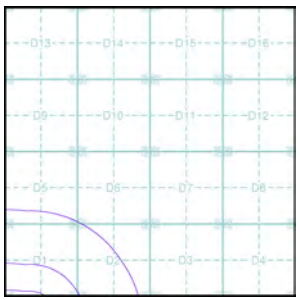
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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 D



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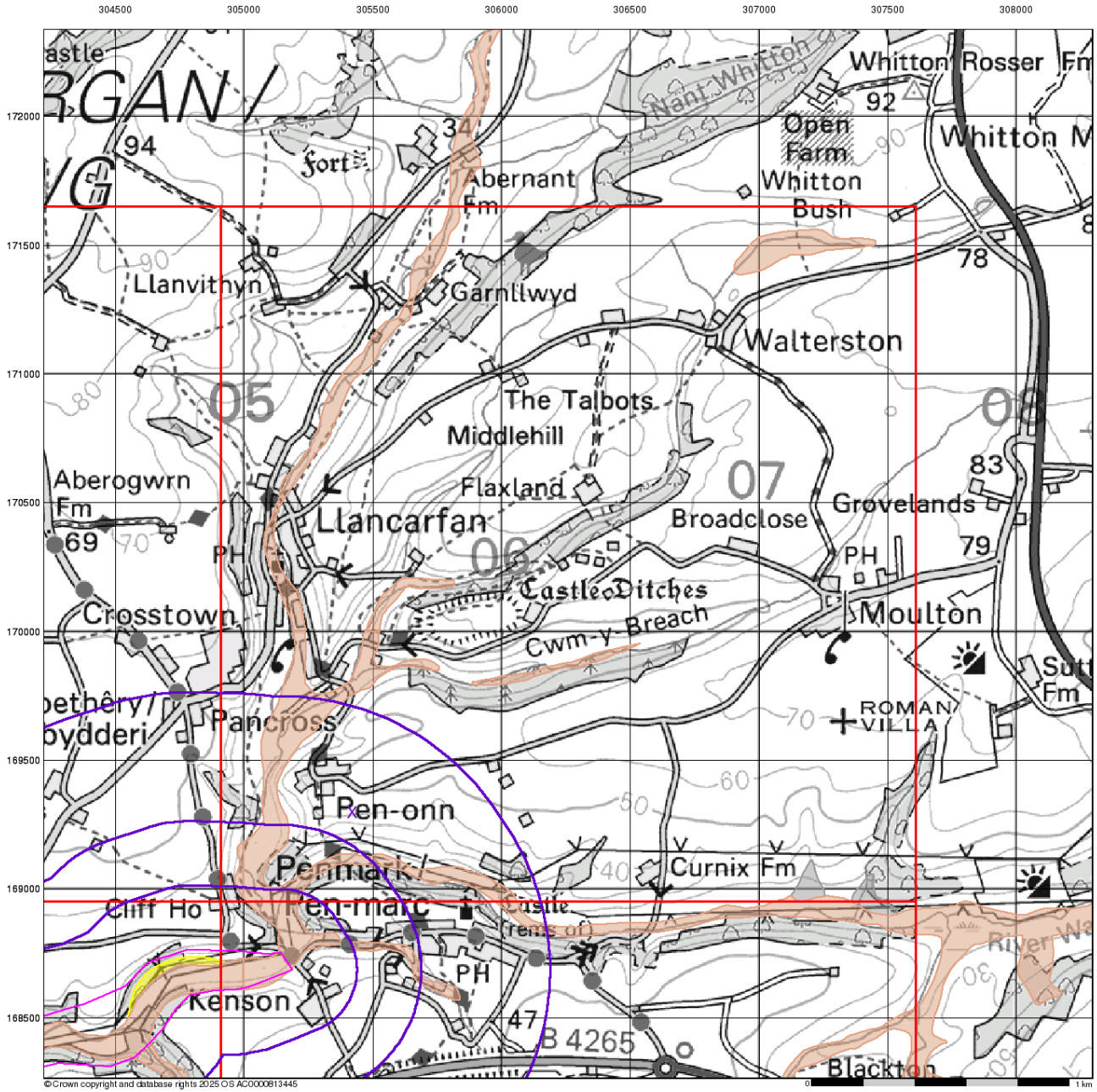

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LANDMARK INFORMATION GROUP

Superficial Aquifer Designation

General

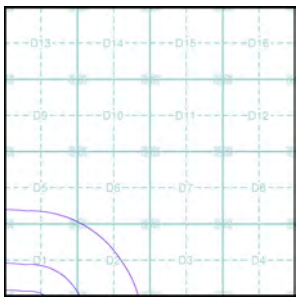
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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 D



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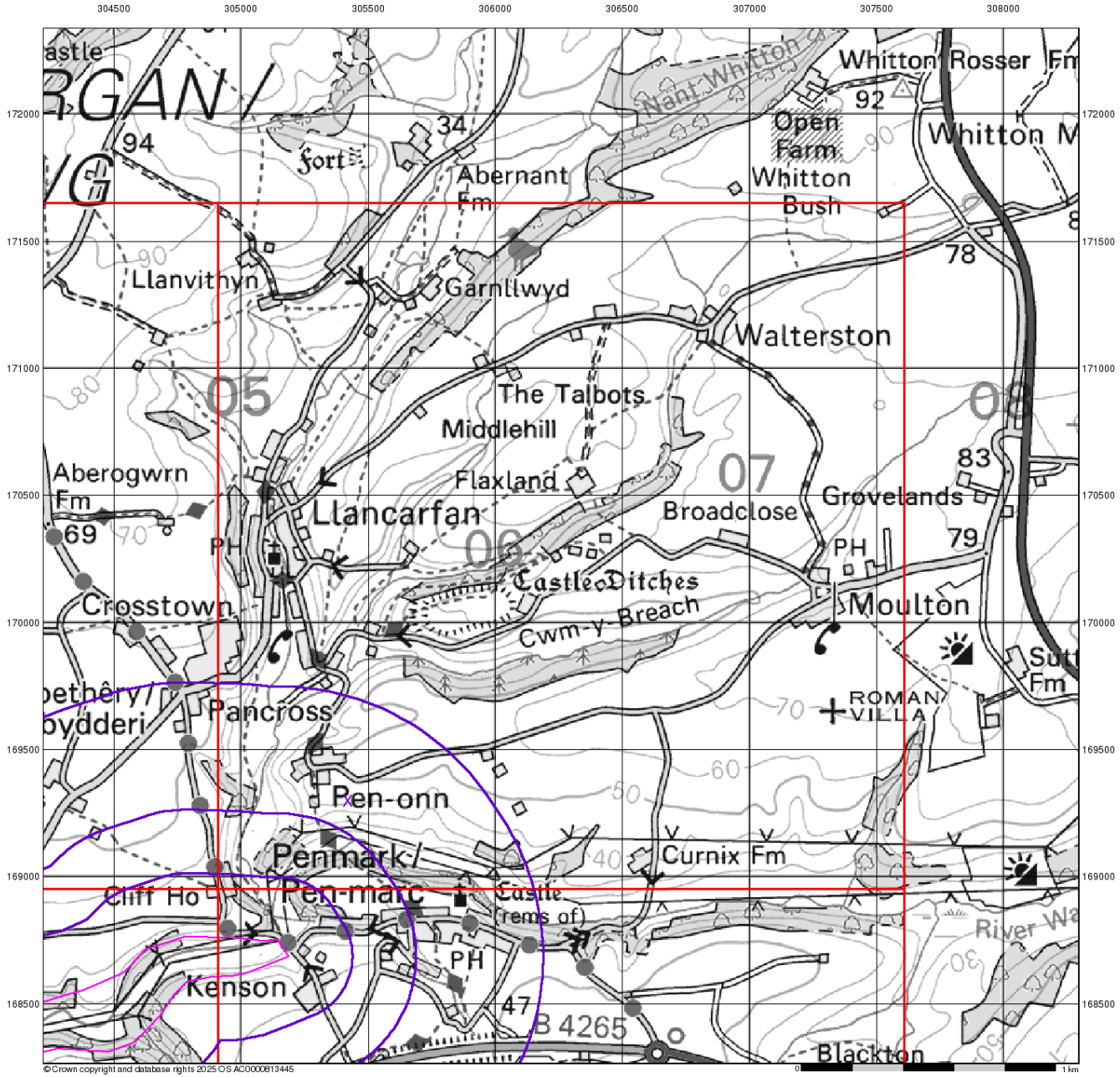

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LANDMARK INFORMATION GROUP

Source Protection Zones

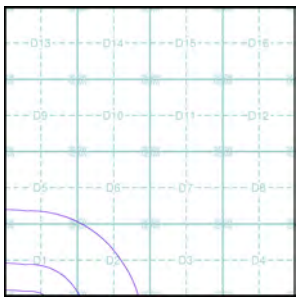
General

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 D



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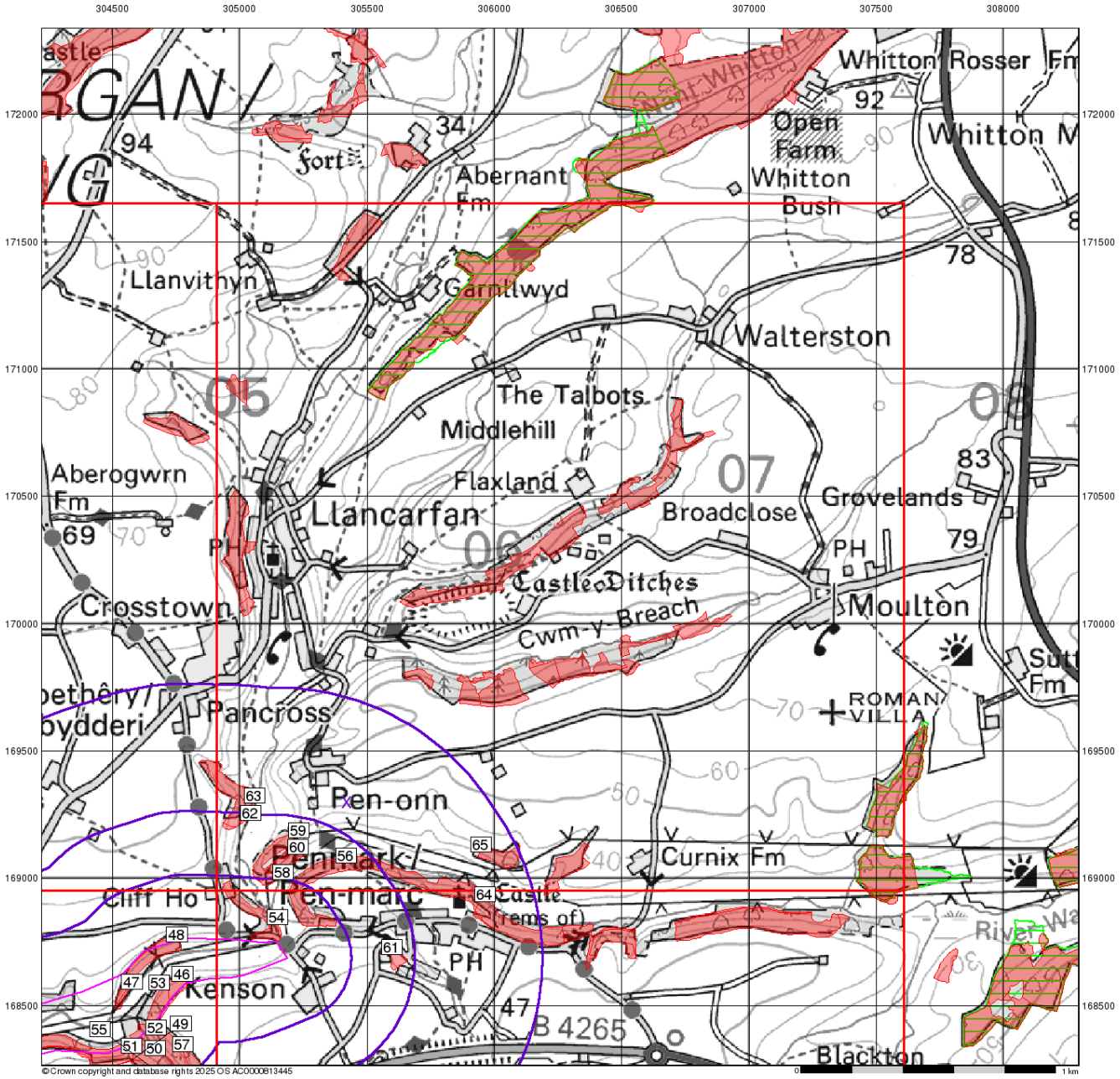

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LANDMARK INFORMATION GROUP

Sensitive Land Uses

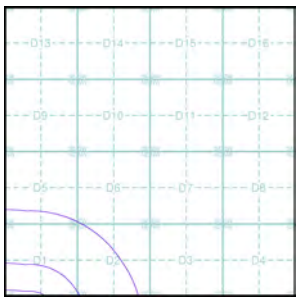
General

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 D



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Search Buffer (m):	1000

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Site at, Llancadle/Llancatal, The Vale of Glamorgan

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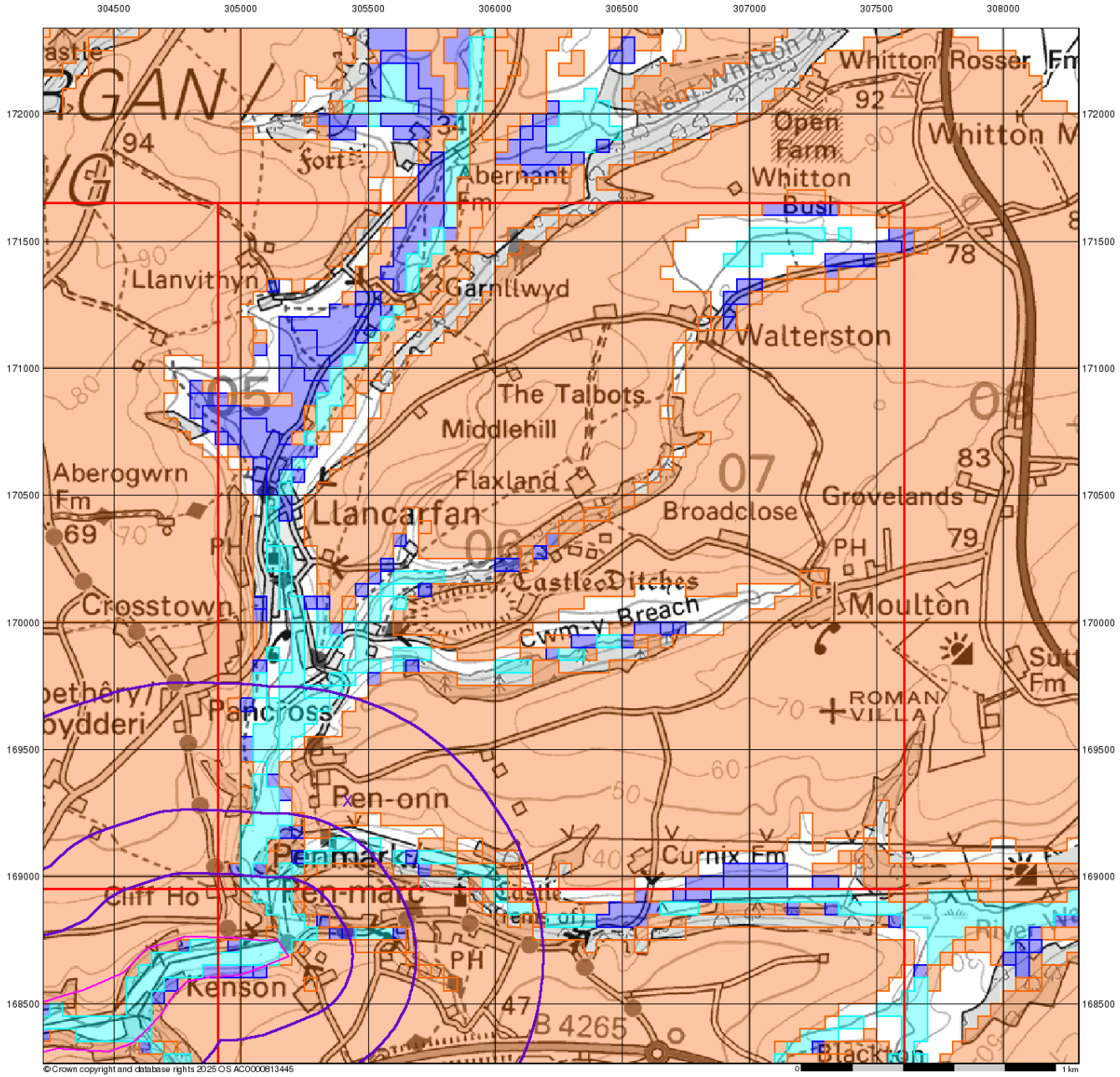

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BGS Flood GFS Data

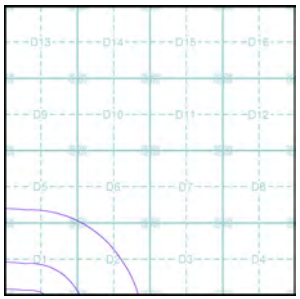
General

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 D



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National Grid Reference:	305420, 169300
Slice:	D
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Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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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
Pylon
Electricity Transmission Line
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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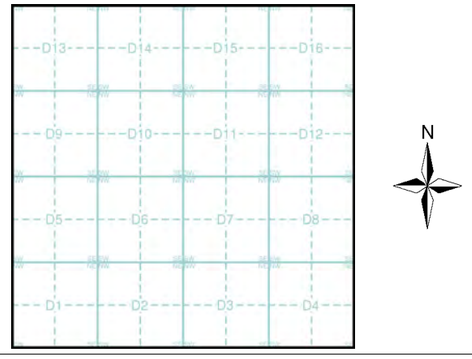
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1885	2
Glamorganshire	1:10,560	1900 - 1901	3
Glamorganshire	1:10,560	1921	4
Glamorganshire	1:10,560	1936	5
Glamorganshire	1:10,560	1938 - 1947	6
Historical Aerial Photography	1:10,560	1947	7
Historical Aerial Photography	1:10,560	1947	8
Ordnance Survey Plan	1:10,000	1964 - 1965	9
Ordnance Survey Plan	1:10,000	1969	10
Ordnance Survey Plan	1:10,000	1974 - 1975	11
Ordnance Survey Plan	1:10,000	1982 - 1989	12
Ordnance Survey Plan	1:10,000	1990 - 1995	13
10K Raster Mapping	1:10,000	1999	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2024	16

Historical Map - Slice D



Order Details

Order Number: 367701071_1_1
Customer Ref: 2025s0023
National Grid Reference: 305420, 169300
Slice: D
Site Area (Ha): 40.66
Search Buffer (m): 1000

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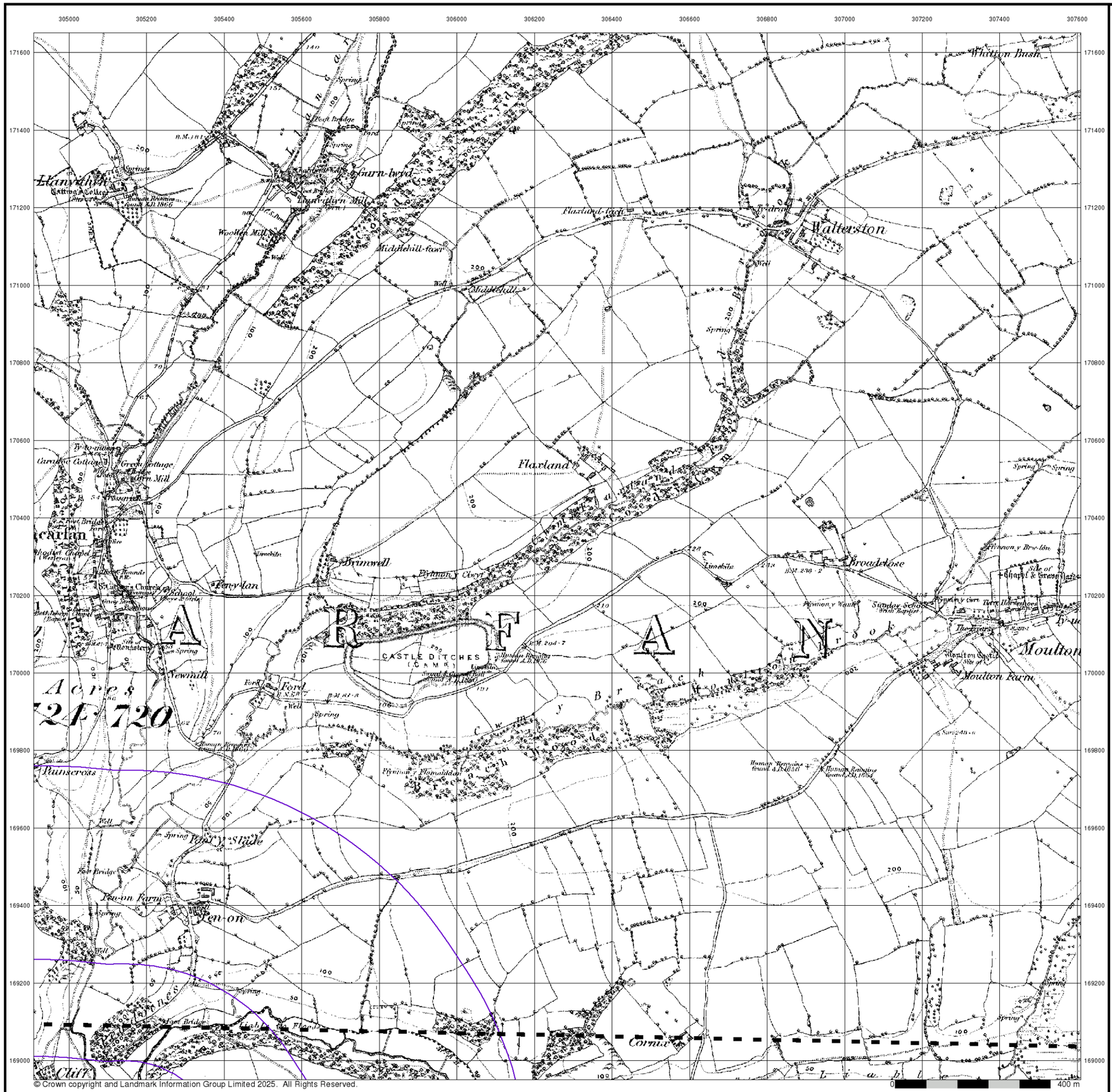

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Glamorganshire

Published 1885

Source map scale - 1:10,560

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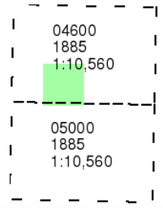
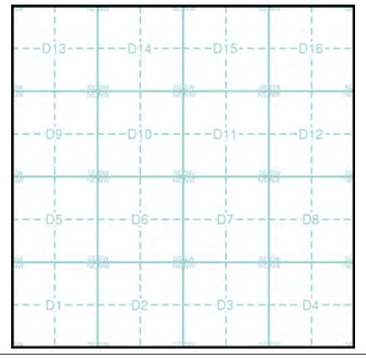
Map Name(s) and Date(s)



Historical Map - Slice D



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Search Buffer (m):	1000

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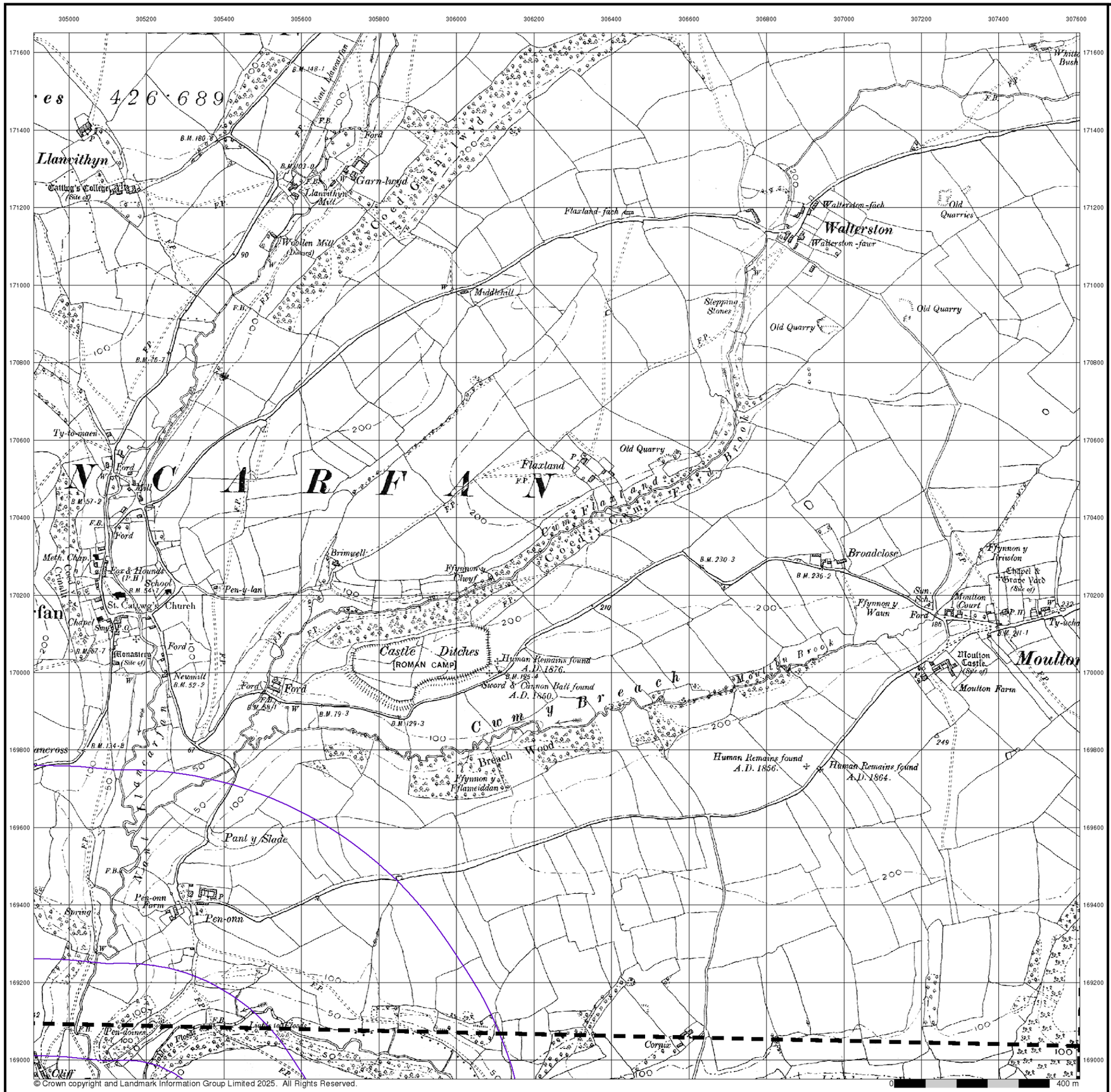

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Glamorganshire

Published 1900 - 1901

Source map scale - 1:10,560

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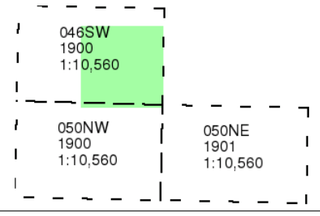

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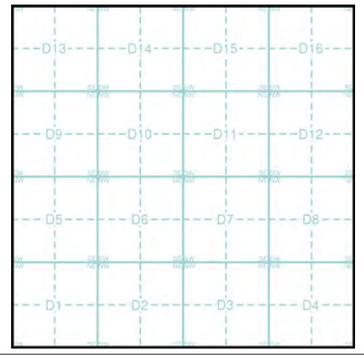

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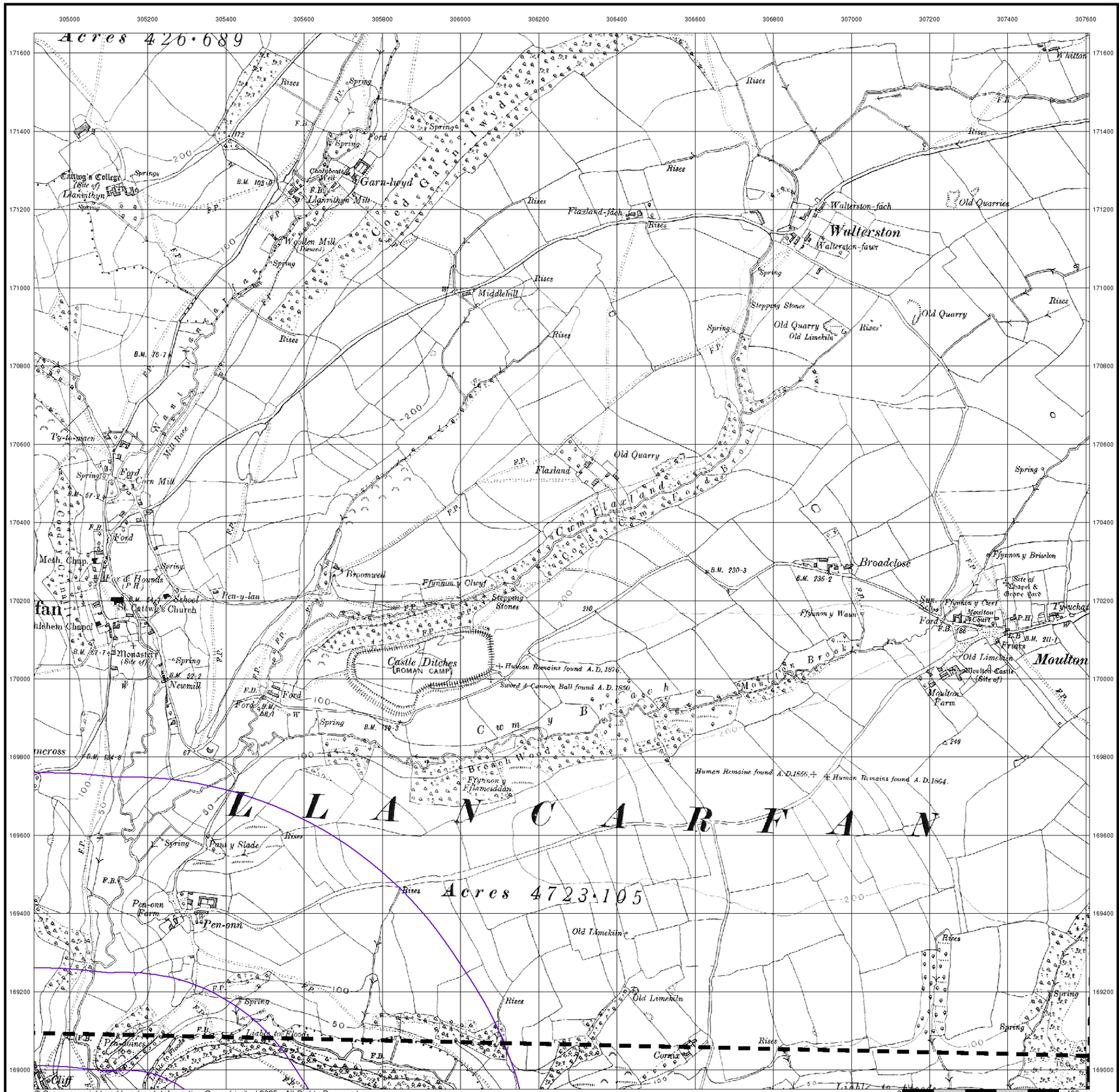

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Glamorganshire

Published 1921

Source map scale - 1:10,560

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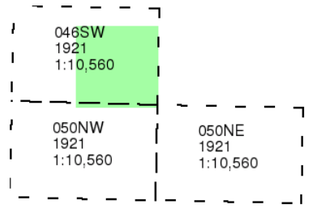
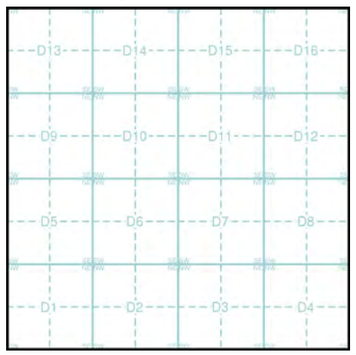


Historical Map - Slice D



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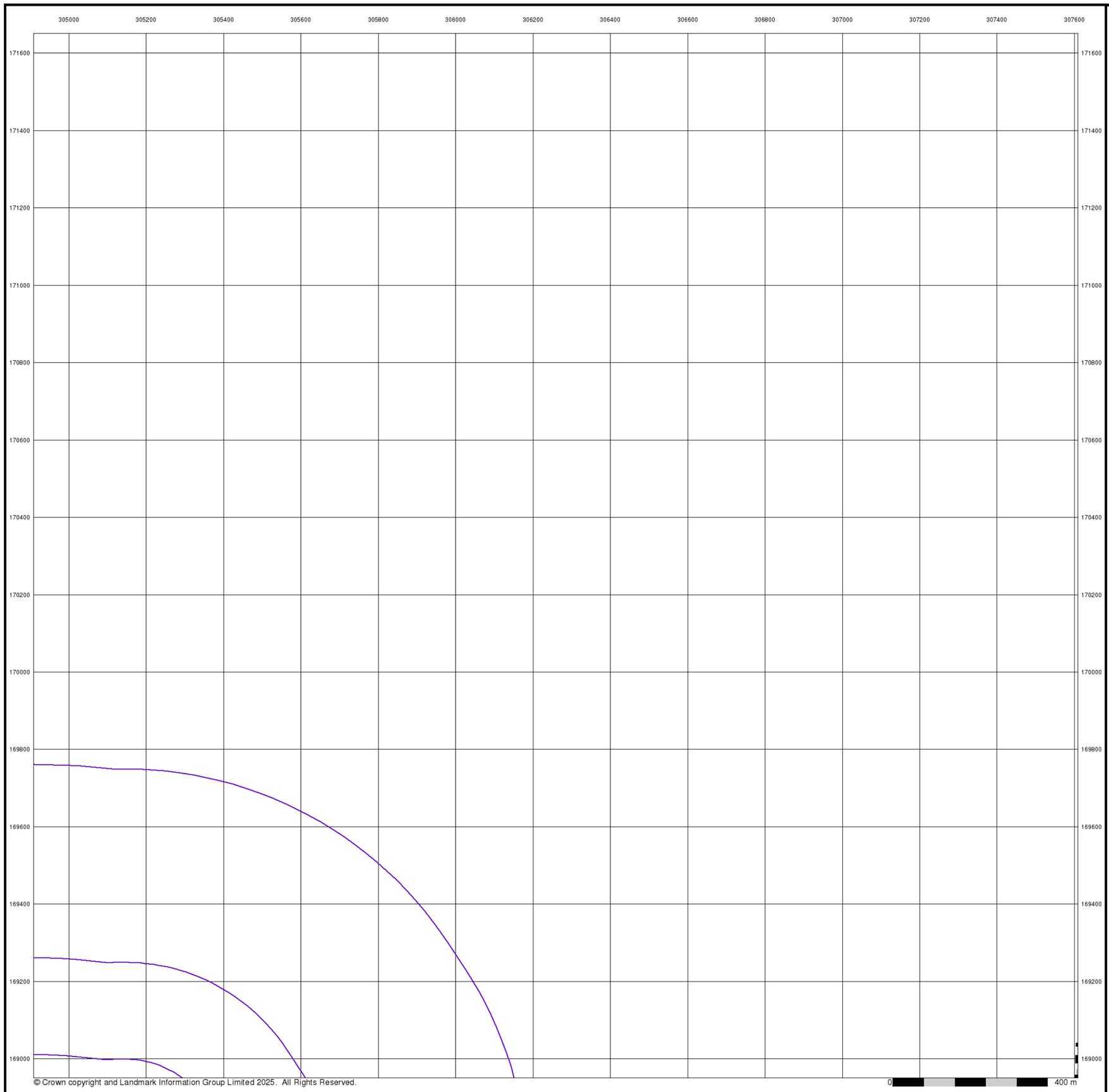

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Glamorganshire

Published 1936

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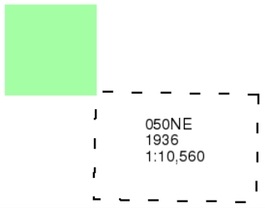
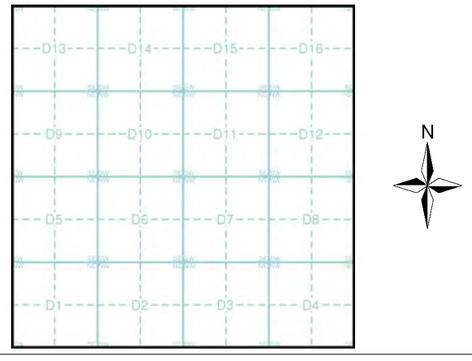


Historical Map - Slice D



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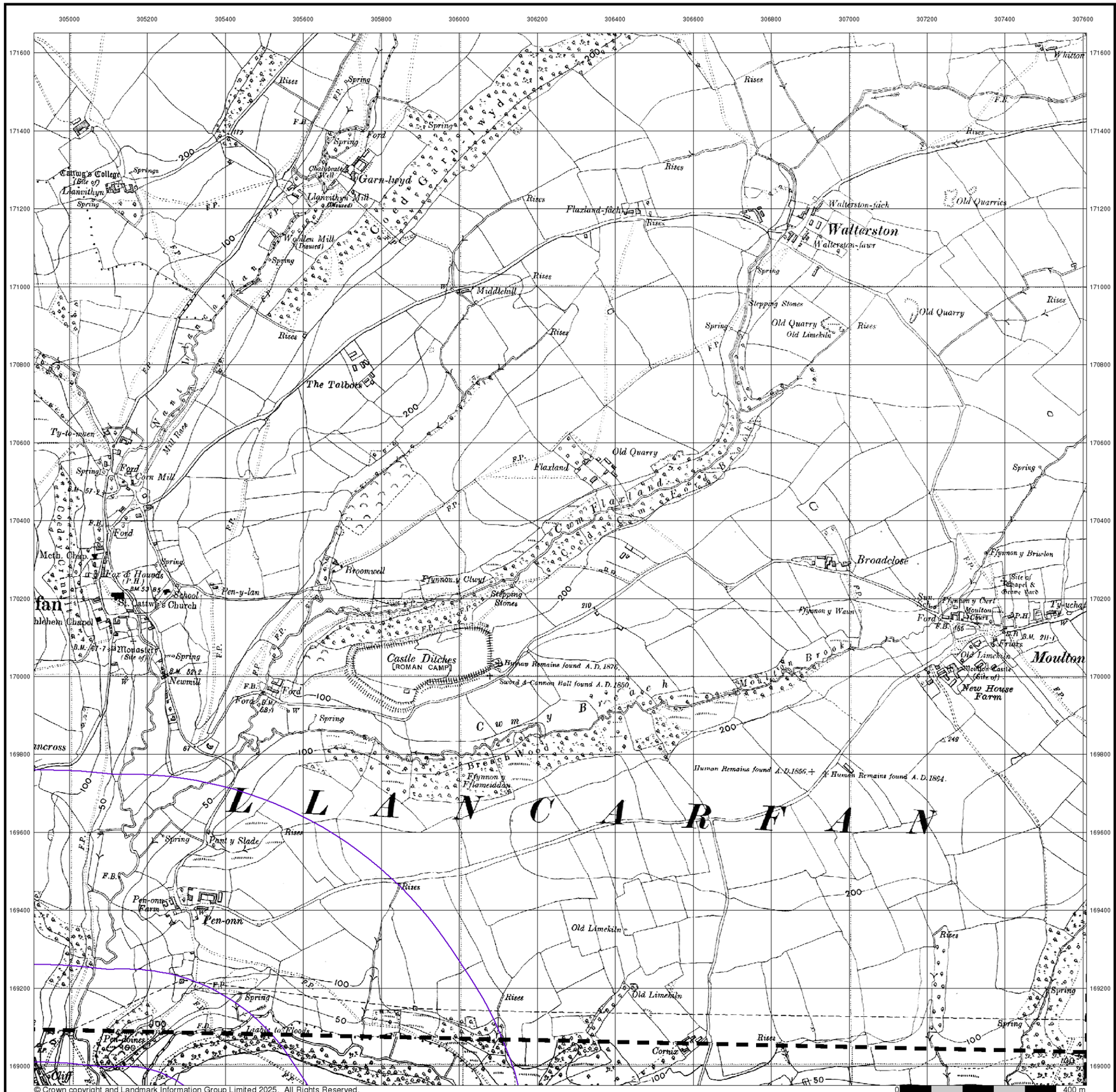

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Glamorganshire

Published 1938 - 1947

Source map scale - 1:10,560

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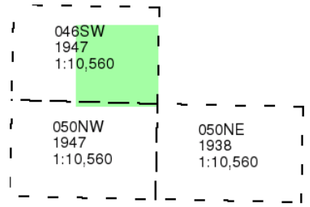
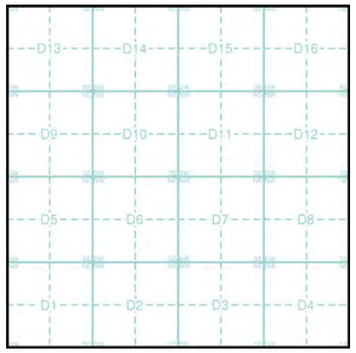


Historical Map - Slice D



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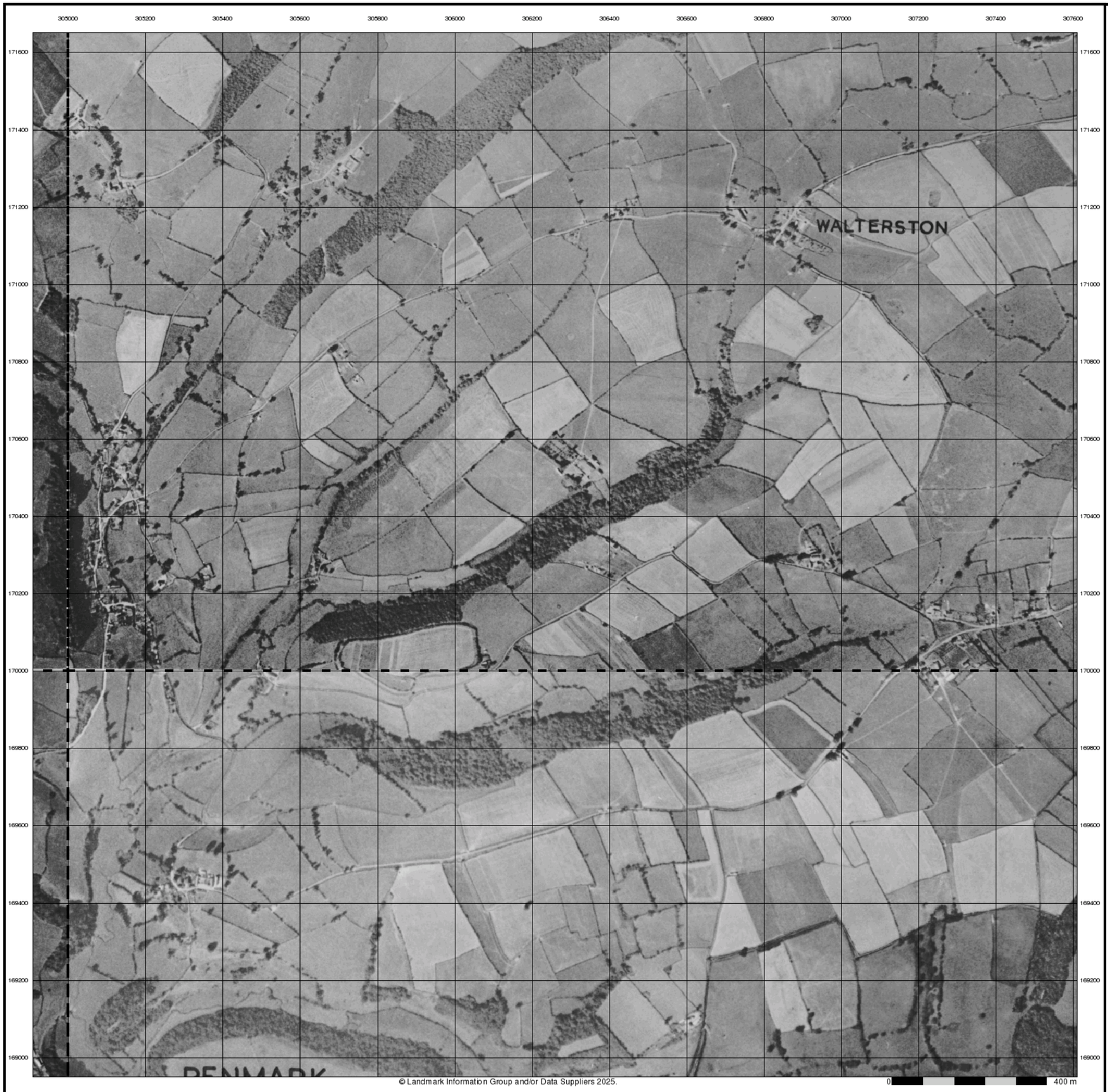

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Historical Aerial Photography

Published 1947

Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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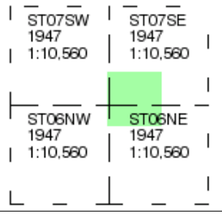
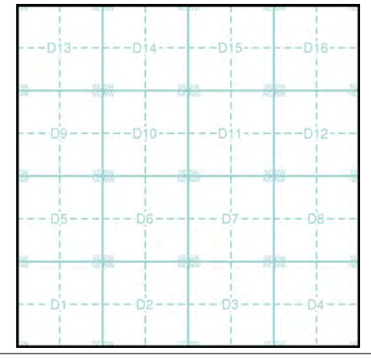
Map Name(s) and Date(s)



Historical Aerial Photography - Slice D



Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305420, 169300
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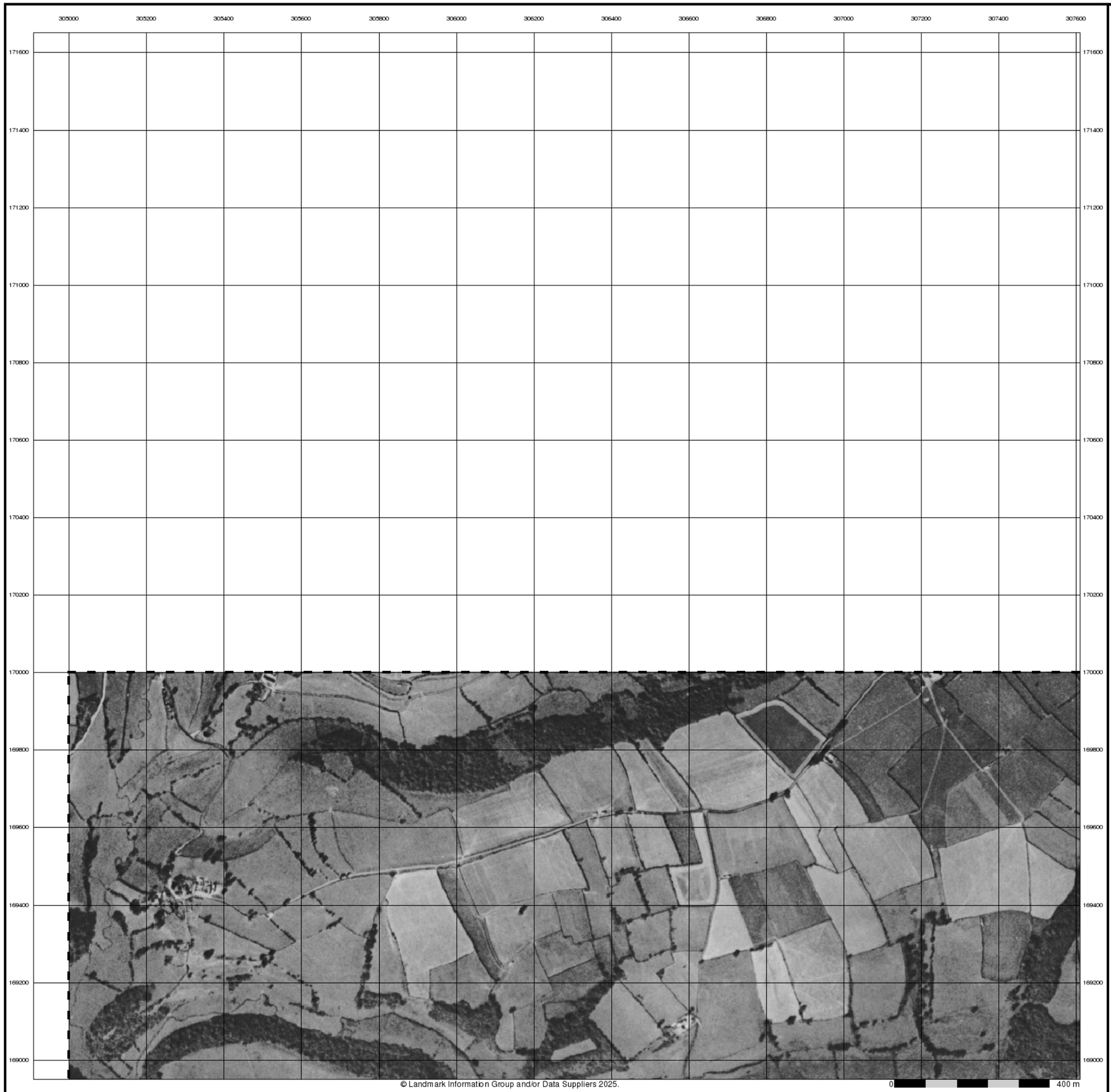

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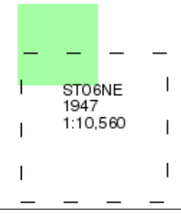
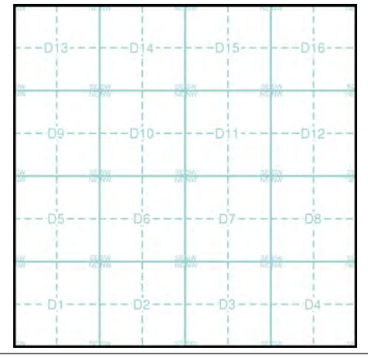


Historical Aerial Photography - Slice D



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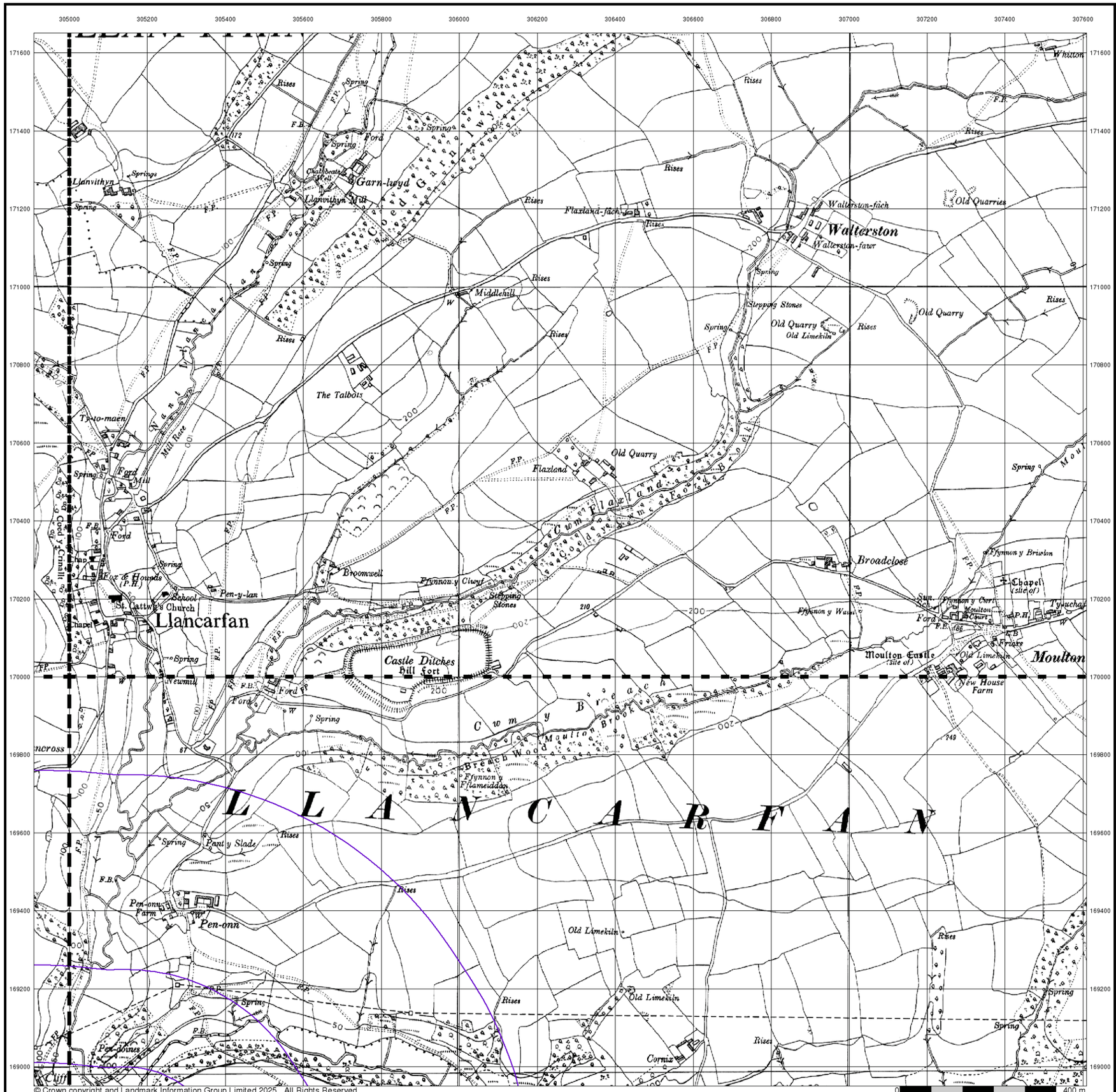
LLANCARFAN
Llancarfan
Walterston
Moulton
Broadclose
Middlehill
The Talbots
Castle Ditches
Hill Fort
Old Quarry
Old Limekiln
Stepping Stones
Broom Well
Pen-onn
Pen-onn Farm
Pant y Slade
Pen-dones
Cliff
Coed Garn-lwyd
Garn-lwyd
Flaxland
Flaxland-fach
Broad Close
Coed Cwm Flaxland
Cwm Flaxland
Cwm y Breach
Breach Wood
Moulton Brook
Nant Llancarfan
Mill Race
Ford Mill
Llanvithyn
Llanvithyn Mill
Ty-to-maen
Ffynnon y Briwlan
Ffynnon y Clwyf
Ffynnon y Flameiddan
Ffynnon y Wern
Moulton Court
Moulton Castle (site of)
New House Farm
Old Limekiln
Fox & Hounds (P.H.)
St. Cattwg's Church
Chapel
School
Newmill
Whitton
Tyuchaf
Springs
Rises
Ford
Spring
Chalybeate Well
Waltersten-fawr
Waltersten-fach
Old Quarries
Old Quarry
Old Limekiln
Cornix
Broomwell
Pen-y-lan
Castle Ditches
Hill Fort
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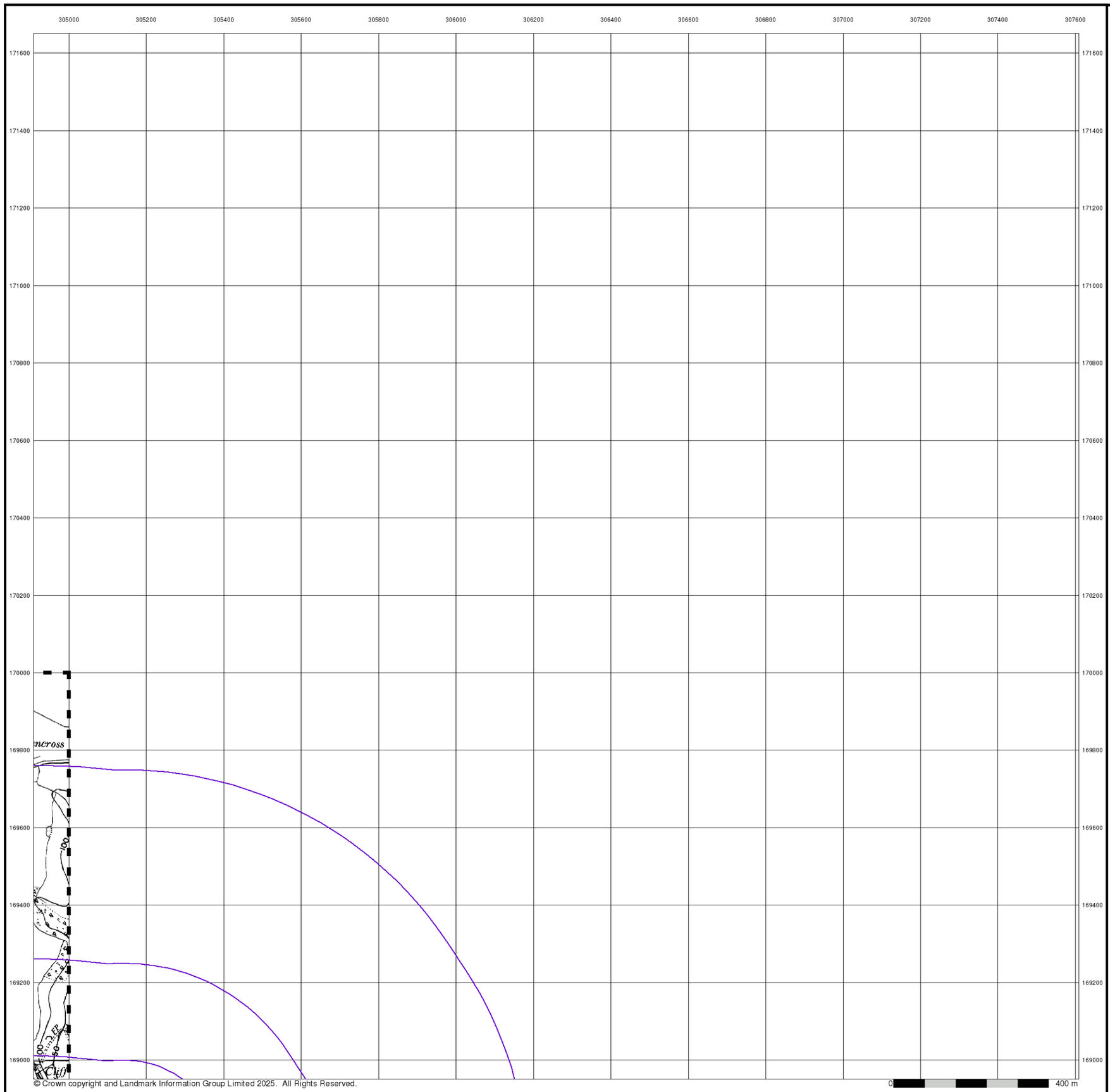

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Ordnance Survey Plan

Published 1969

Source map scale - 1:10,000

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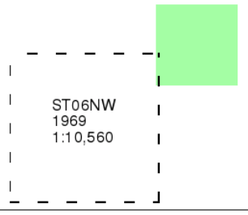
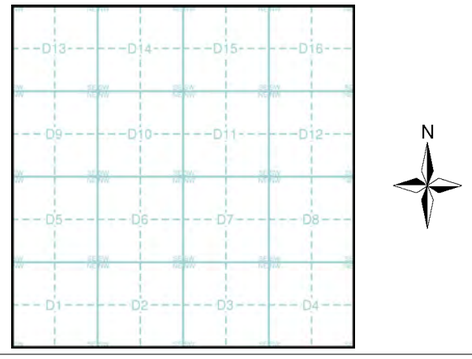


Historical Map - Slice D



Order Details

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Site Details

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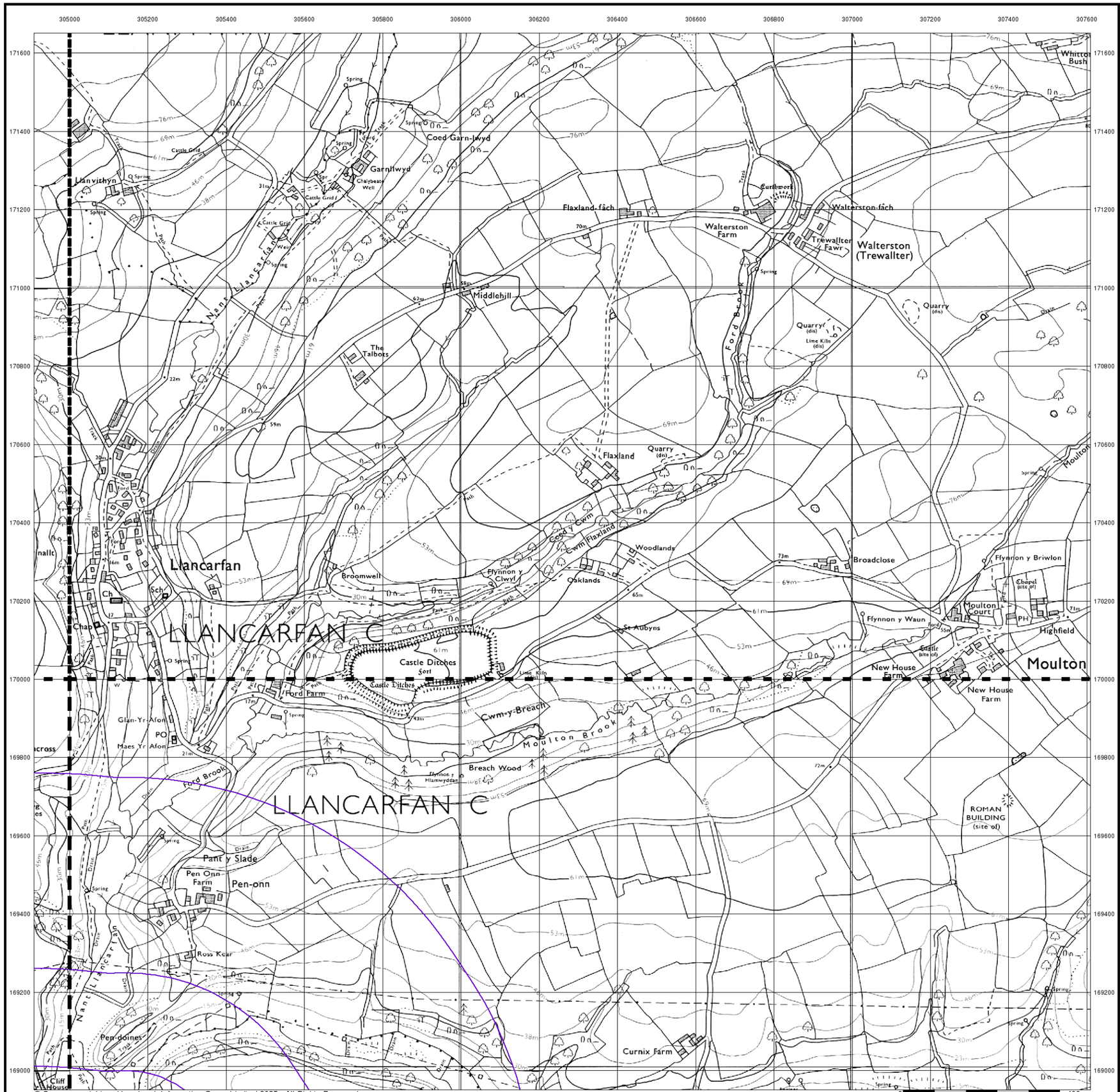

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Ordnance Survey Plan

Published 1974 - 1975

Source map scale - 1:10,000

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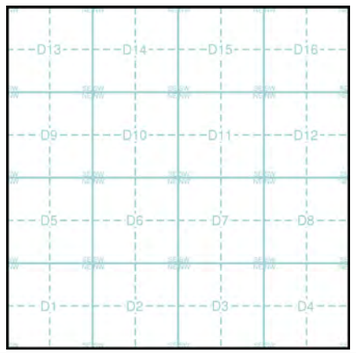
ST06NW 1975 1:10,000	ST06NE 1975 1:10,000

Historical Map - Slice D



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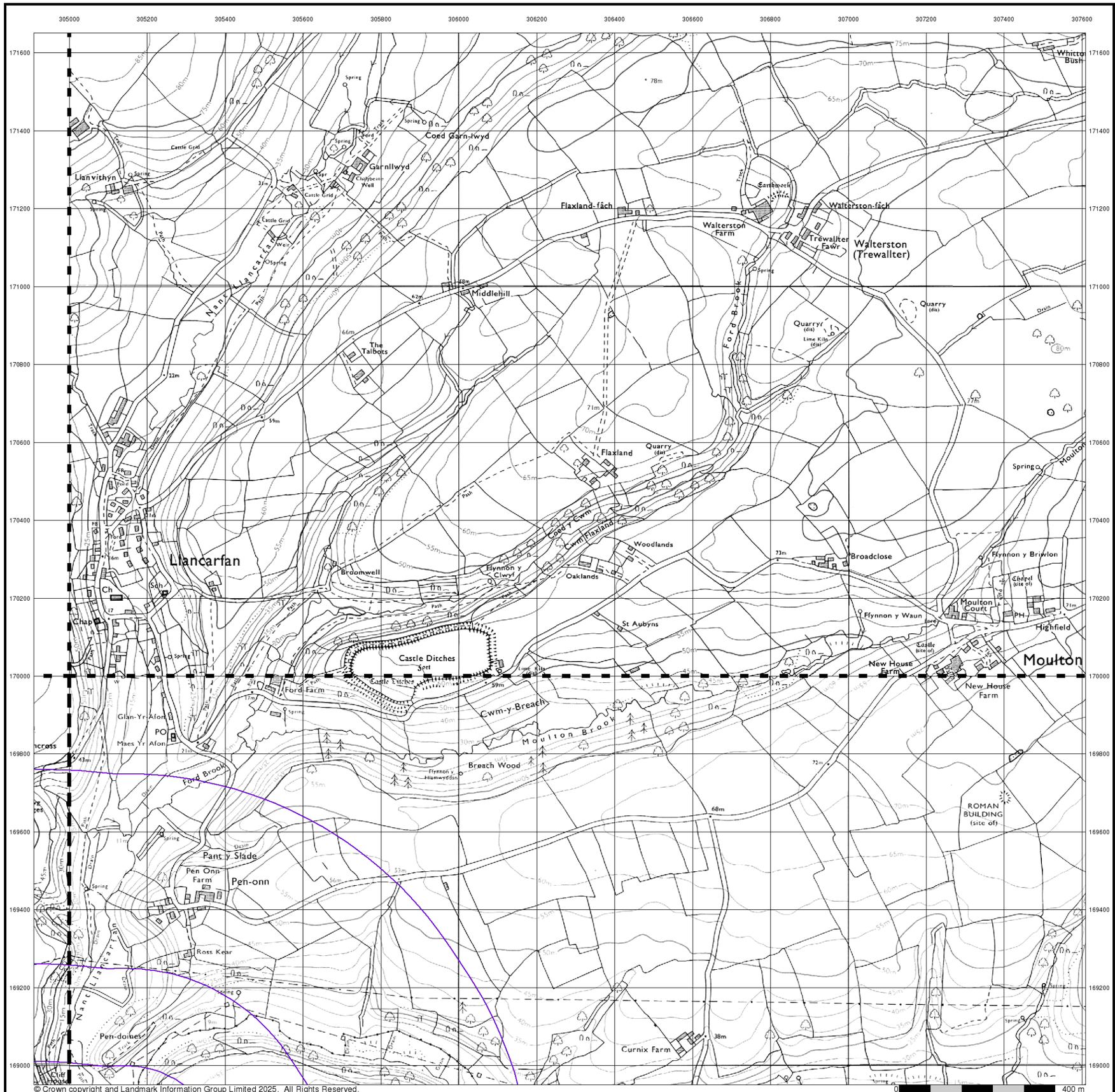

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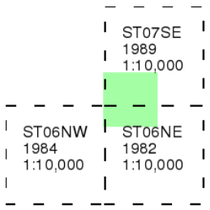
Ordnance Survey Plan

Published 1982 - 1989

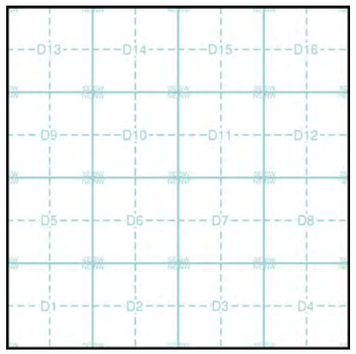
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

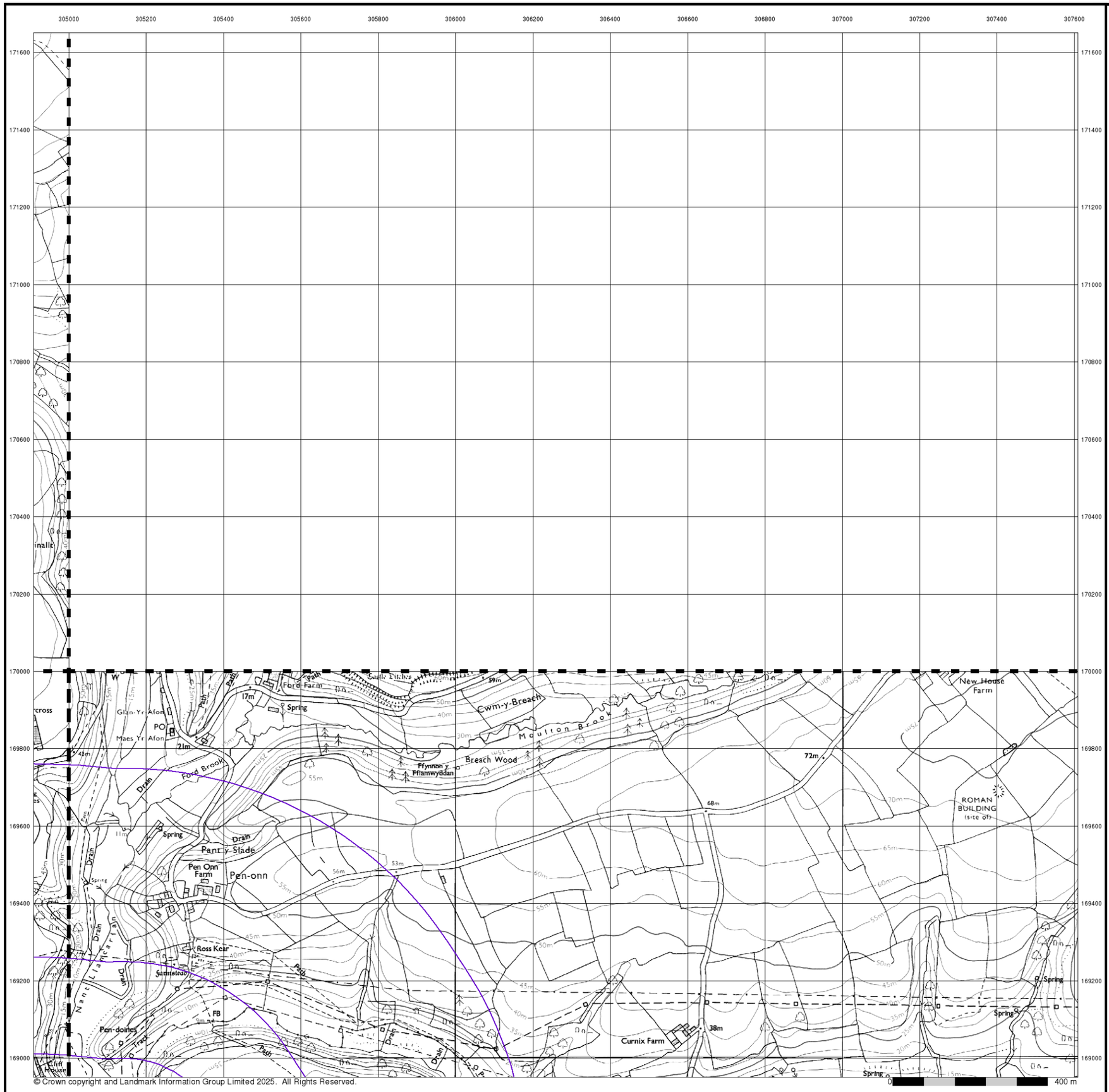
Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305420, 169300
Slice:	D
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

Site at, Llancadle/Llancatal, The Vale of Glamorgan

Landmark INFORMATION GROUP

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



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Ordnance Survey Plan

Published 1990 - 1995

Source map scale - 1:10,000

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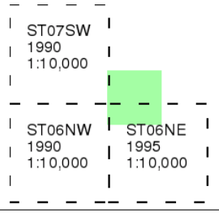

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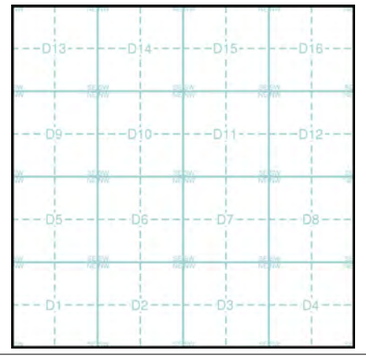

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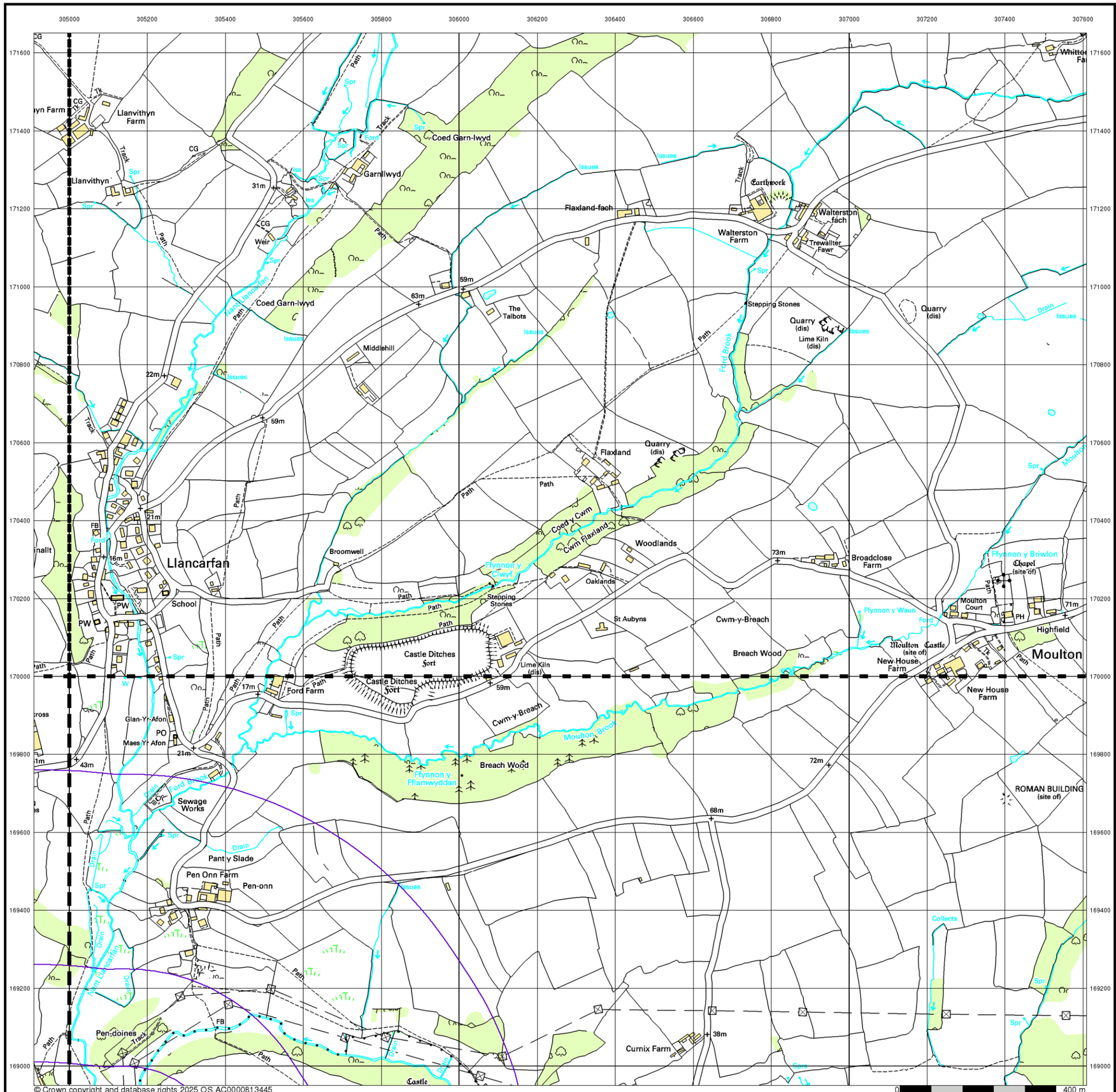
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305200
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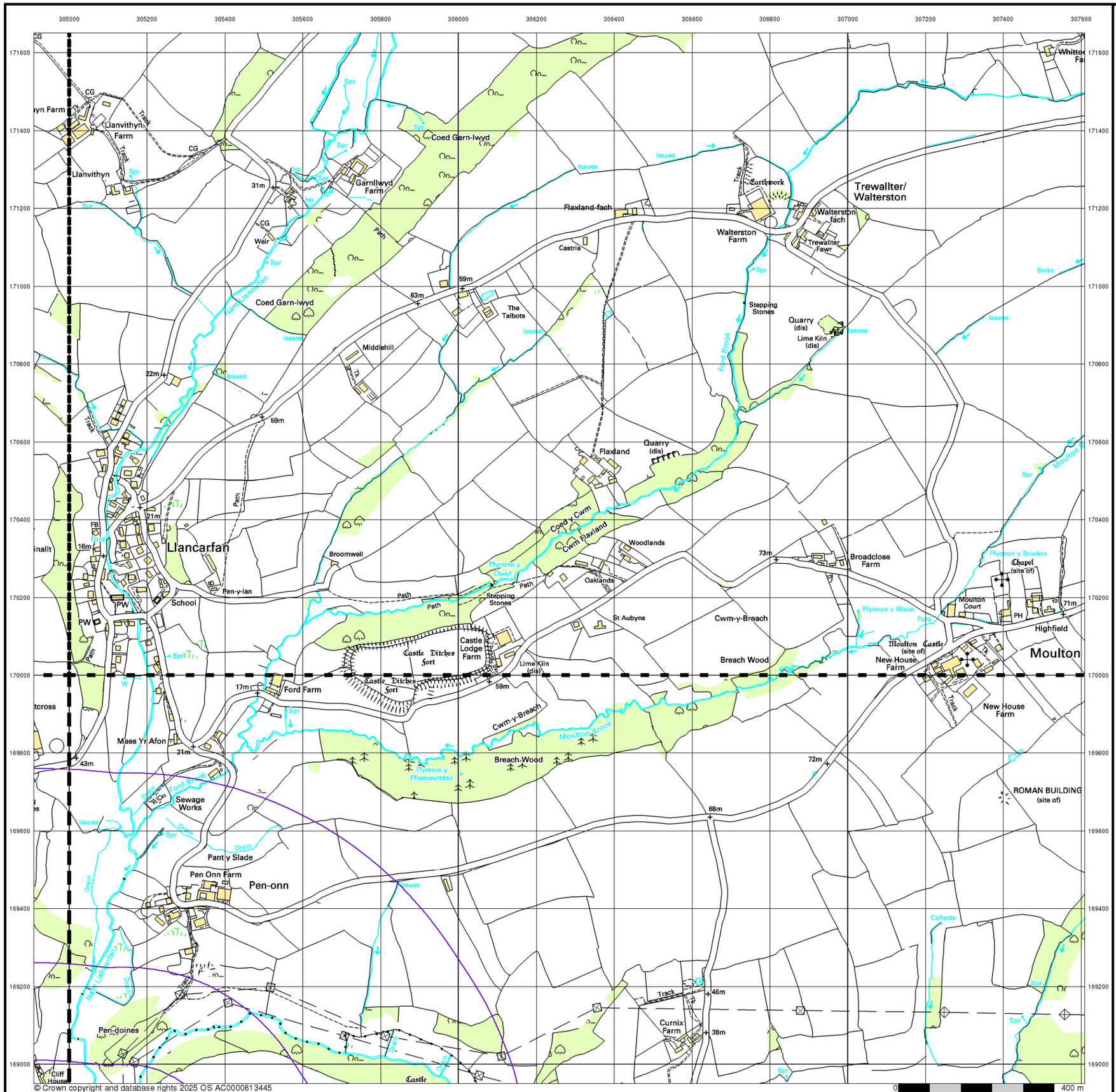
171600
171400
171200
171000
170800
170600
170400
170200
170000
169800
169600
169400
169200
169000
Llanvithyn Farm
Llanvithyn
Coed Garn-lwyd
Garnllwyd
Flaxland-fach
Earthwork
Walterston fach
Walterston Farm
Trewallter Fawr
Stepping Stones
Quarry (dis)
Lime Kiln (dis)
Quarry (dis)
Drain
Issues
Ford Brook
The Talbots
Middlehill
Flaxland
Quarry (dis)
Coed-y-Cwm
Cwm Flaxland
Woodlands
Broadclose Farm
Flynnon y Briwlon
Chapel (site of)
Moulton Court
PH
Highfield
Moulton
Flynnon y Waun
Moulton Castle (site of)
New House Farm
ROMAN BUILDING (site of)
Llancarfan
Broomwell
School
PW
Flynnon y Clwyf
Oaklands
St Aubyns
Cwm-y-Breach
Breach Wood
Castle Ditches Fort
Lime Kiln (dis)
Ford Farm
Glan-Y-Afon
PO
Maes Y- Afon
Sewage Works
Moulton Brook
Flynnon y Fflamwyddan
Pant y Slade
Pen Onn Farm
Pen-onn
Pen-doines
Curnix Farm
Castle
Collects
Path
Track
Ford
Spr
Issues
Drain
Weir
CG
FB
PW
PO
Quarry
Earthwork
Stepping Stones
Ford
Path
Track



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10k Raster Mapping

Published 2006

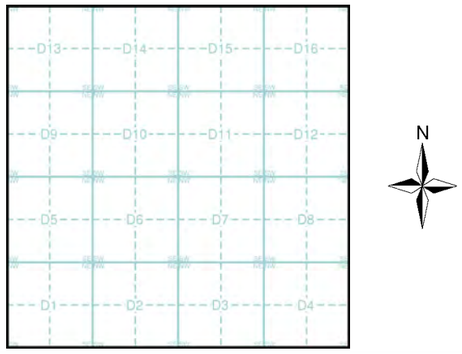
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

ST07SW 2006 1:10,000	ST07SE 2006 1:10,000
ST06NW 2006 1:10,000	ST06NE 2006 1:10,000

Historical Map - Slice D



Order Details

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Search Buffer (m):	1000

Site Details

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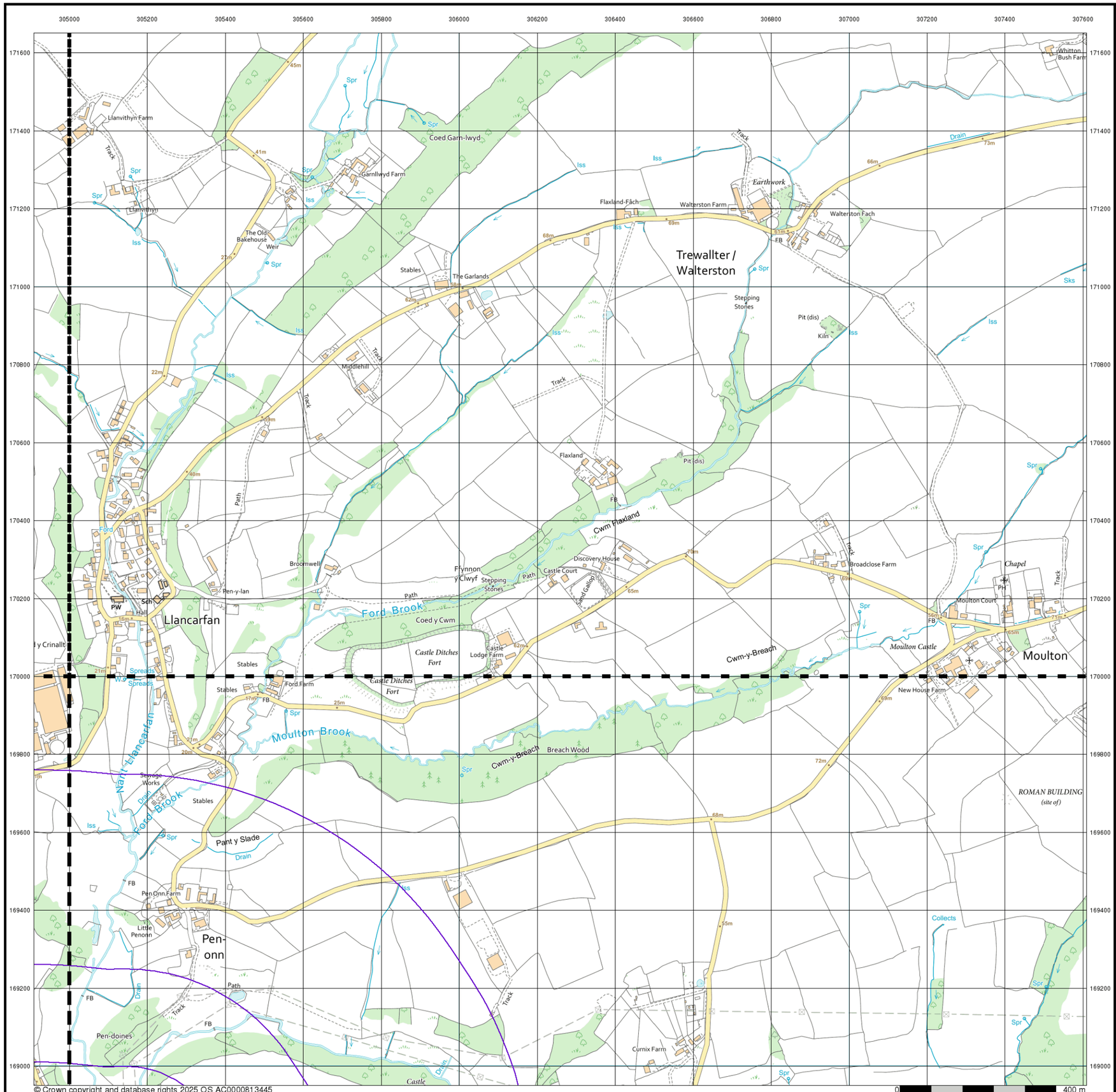

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VectorMap Local

Published 2024

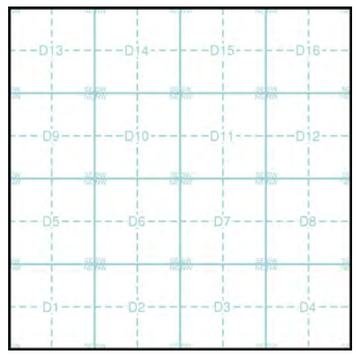
Source map scale - 1:10,000

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)

ST07SW 2024 Variable	ST07SE 2024 Variable
ST06NW 2024 Variable	ST06NE 2024 Variable

Historical Map - Slice D



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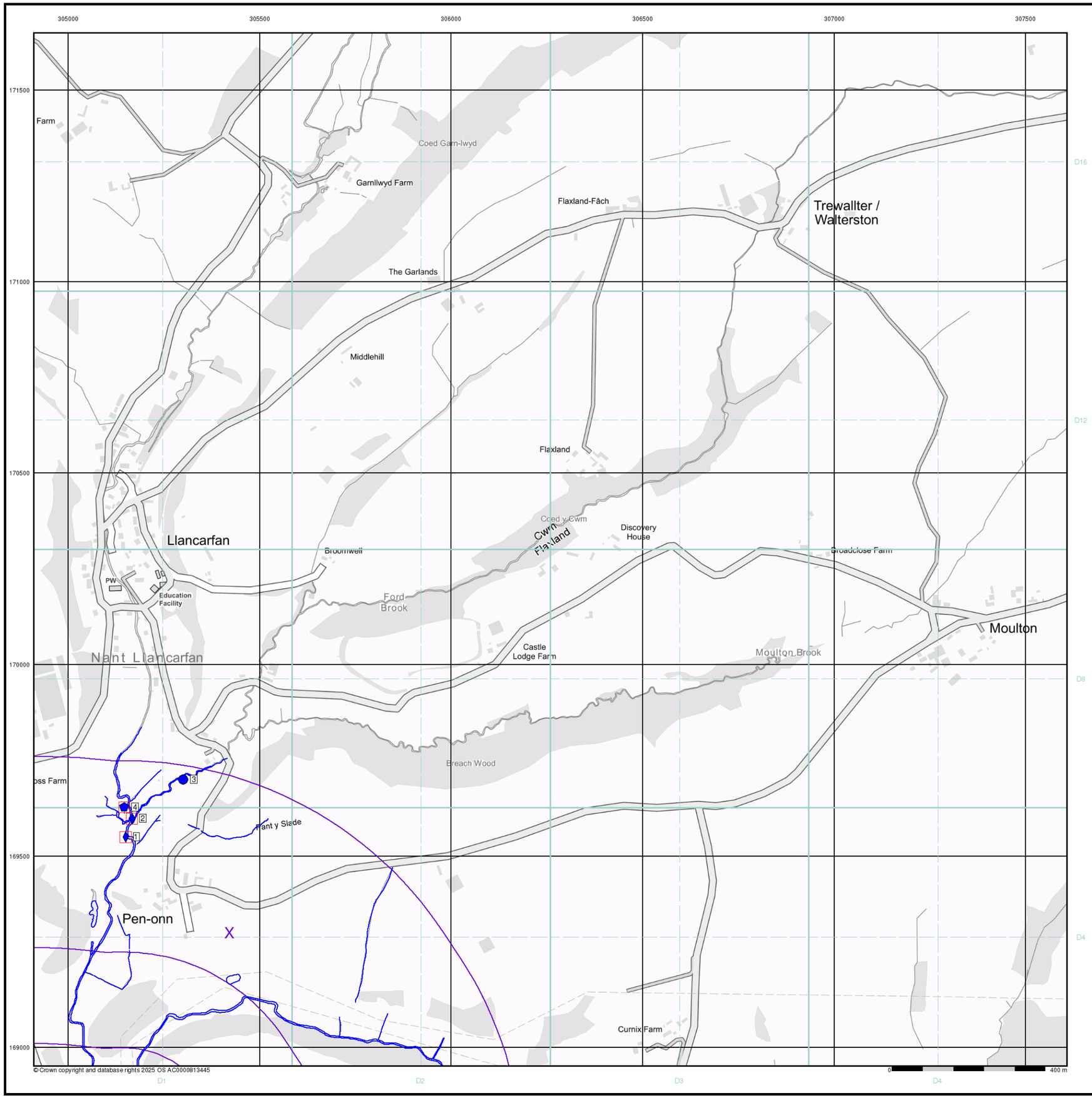

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General

- 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
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- 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

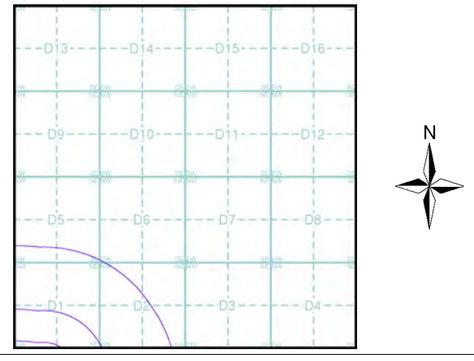
Geological

- 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 D



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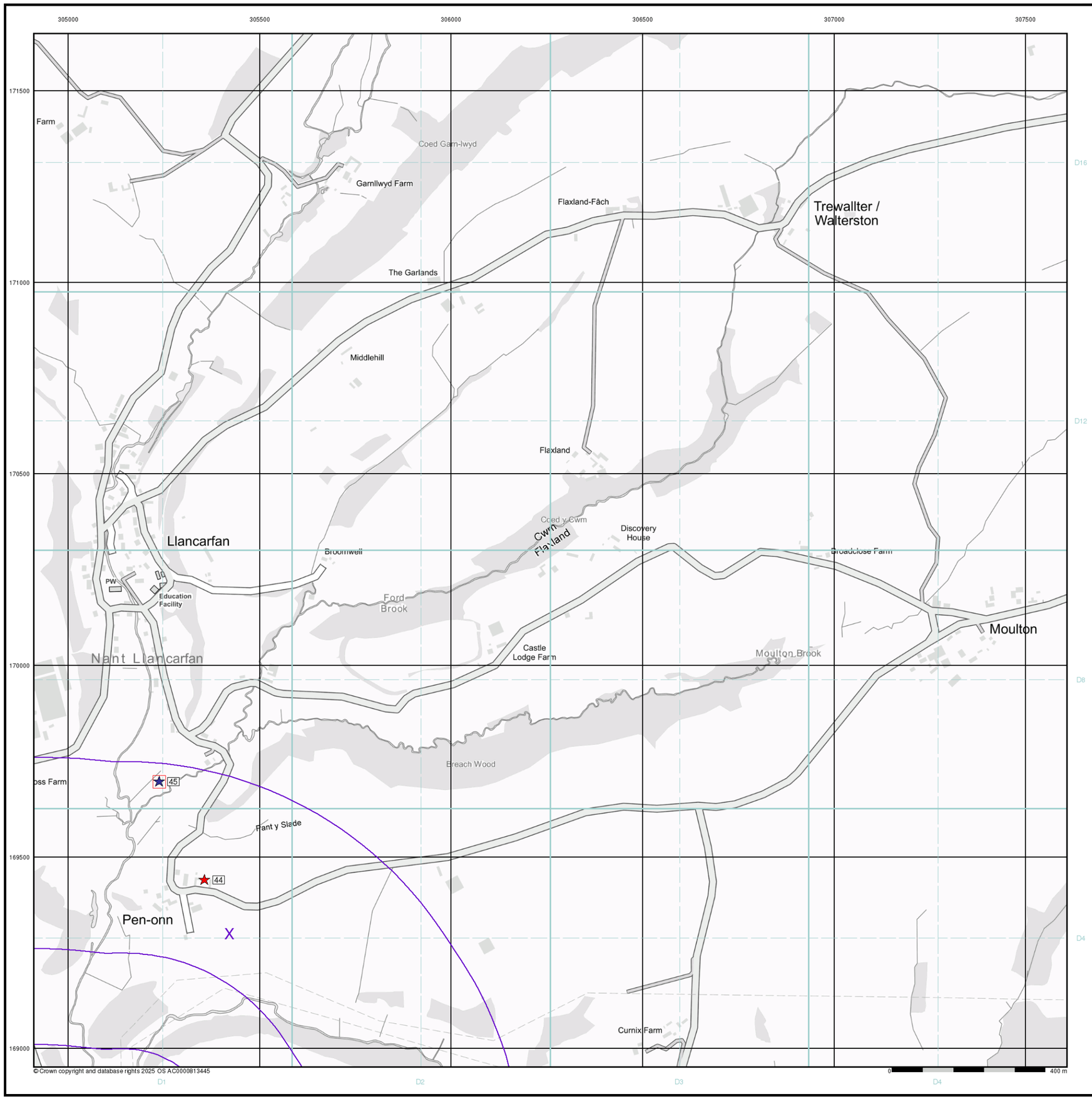

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Industrial Land Use Map

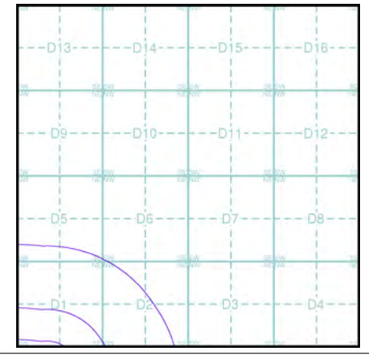
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- 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 D



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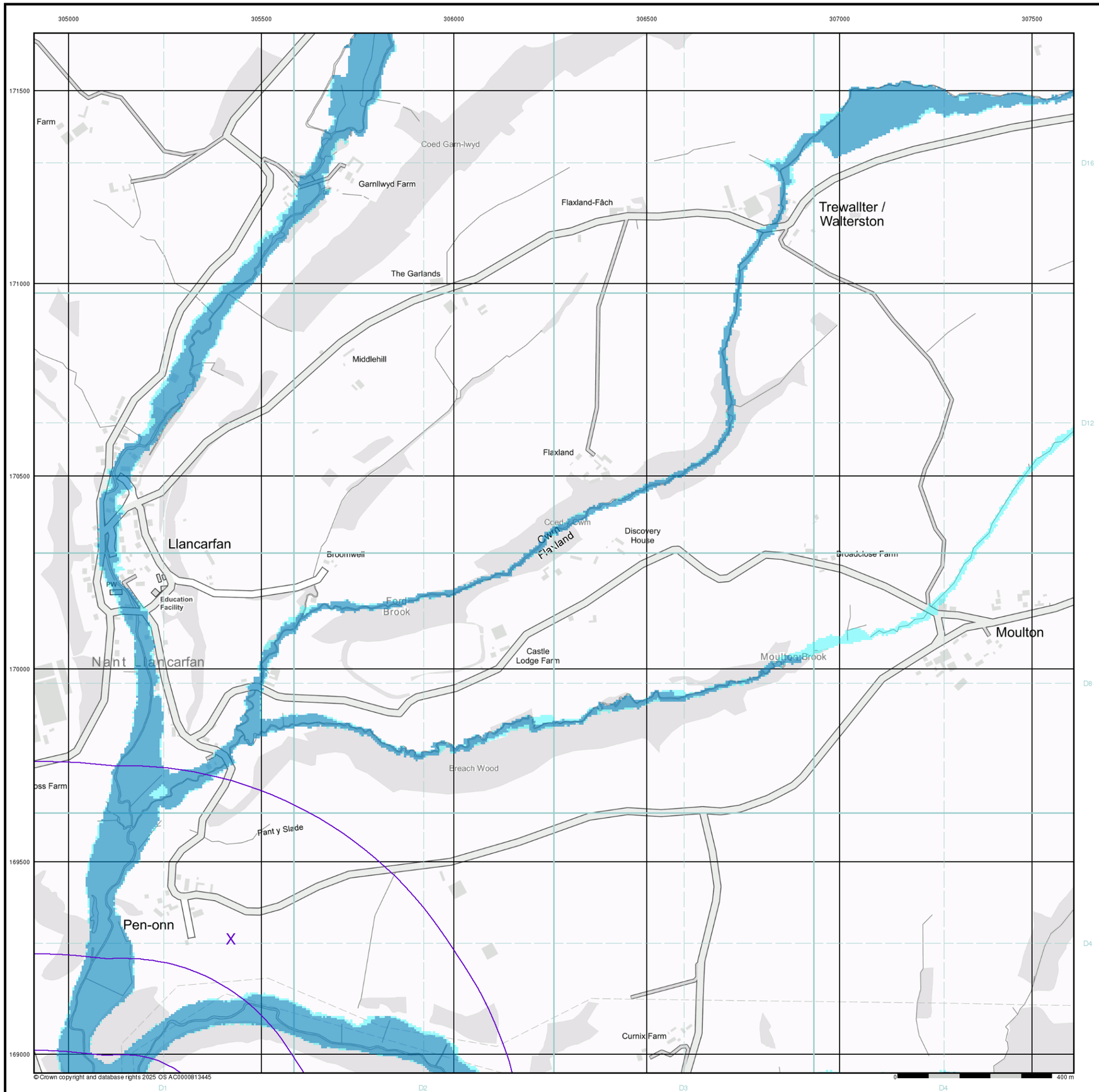

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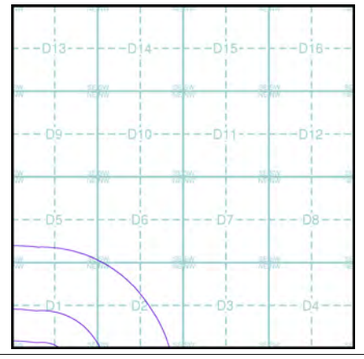
General

- 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 D



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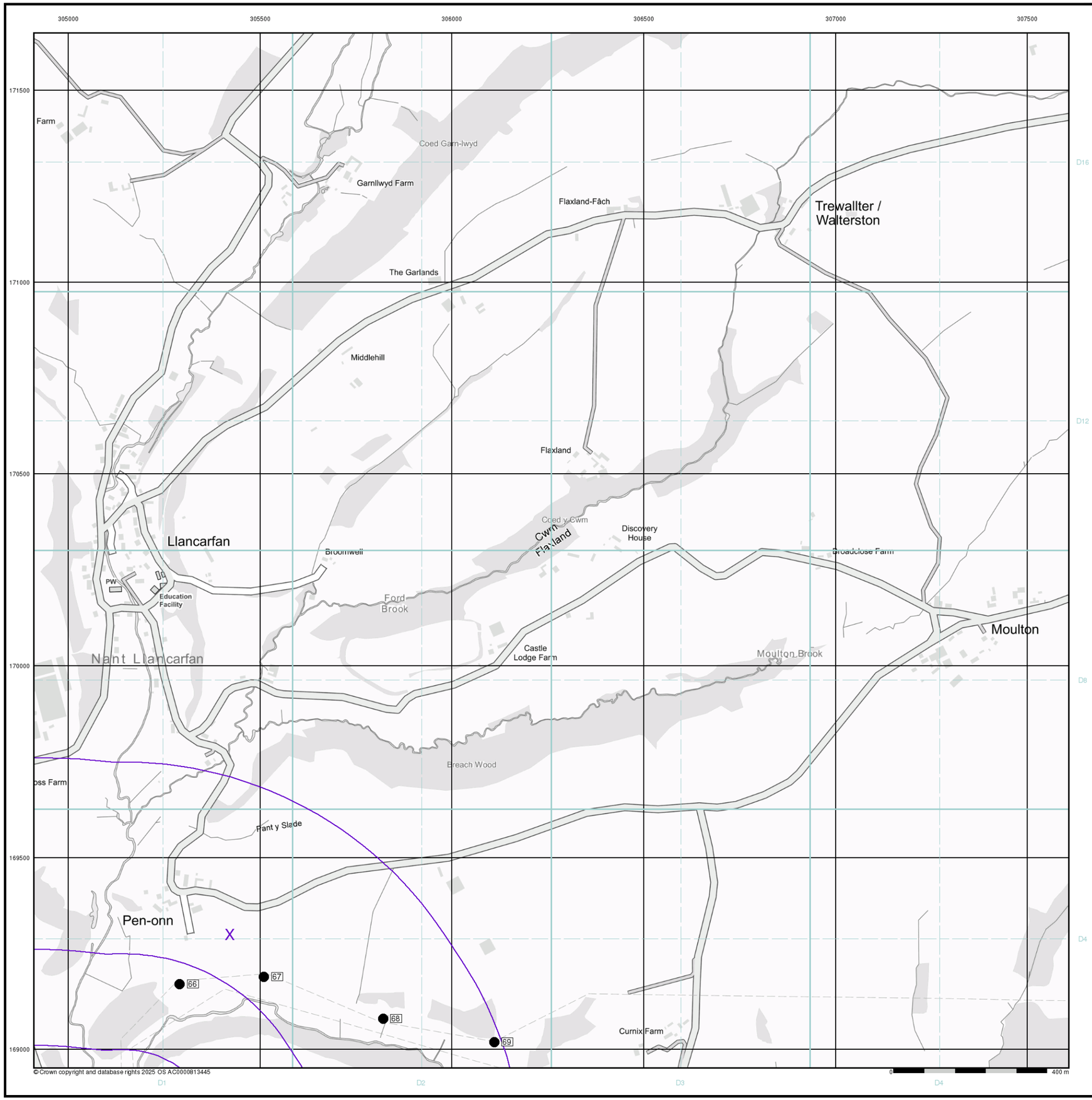

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LANDMARK INFORMATION GROUP®

General

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

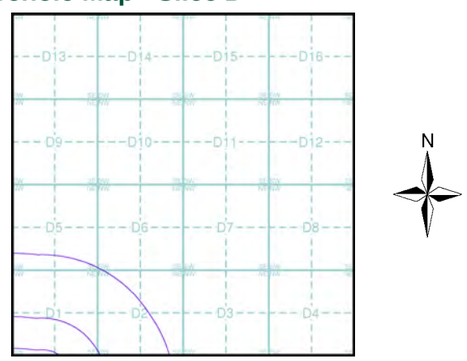
Agency and Hydrological (Boreholes)

- 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 D



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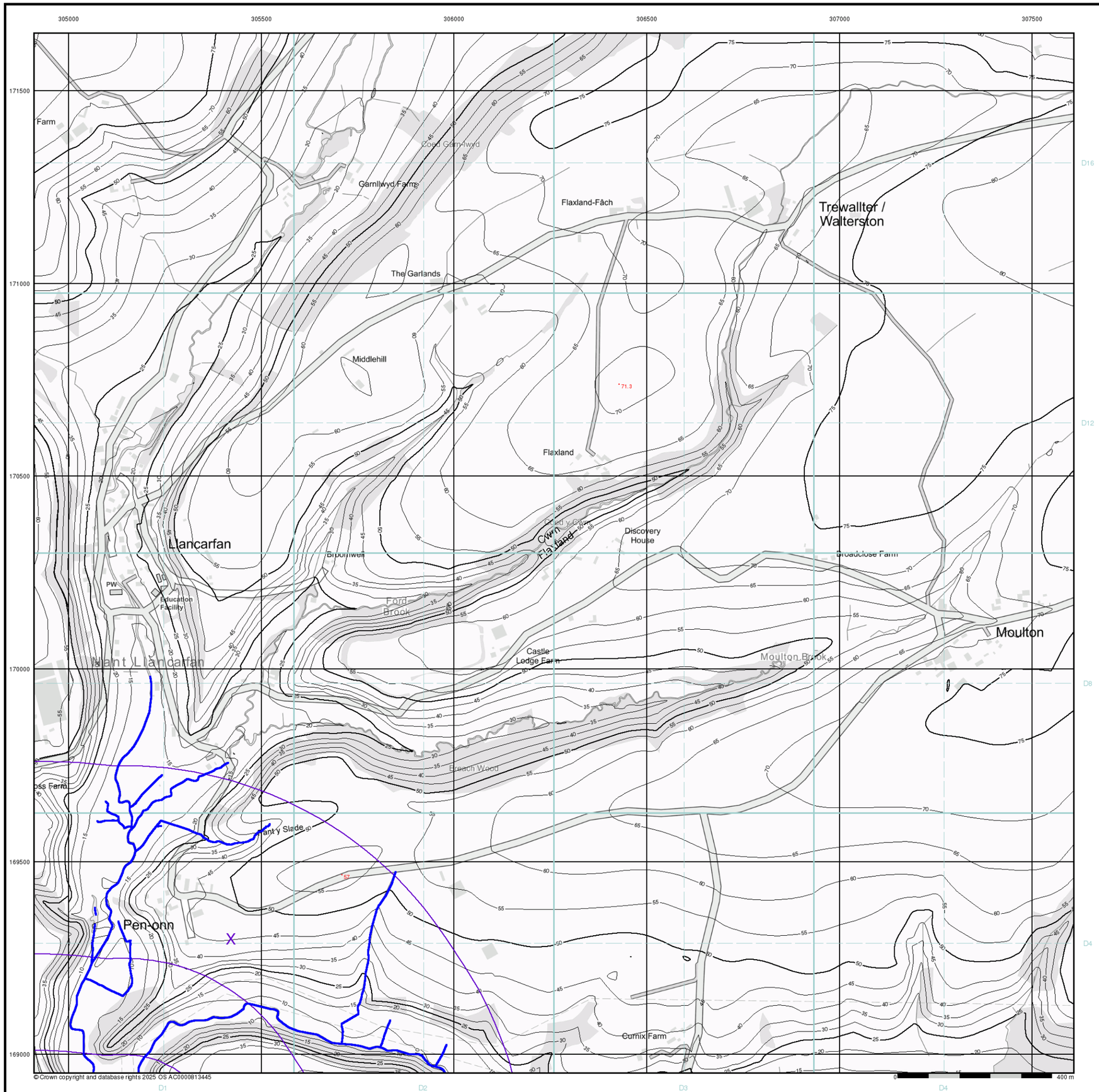

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LANDMARK INFORMATION GROUP®

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)

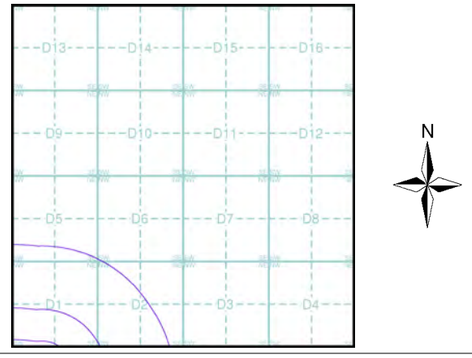
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice D



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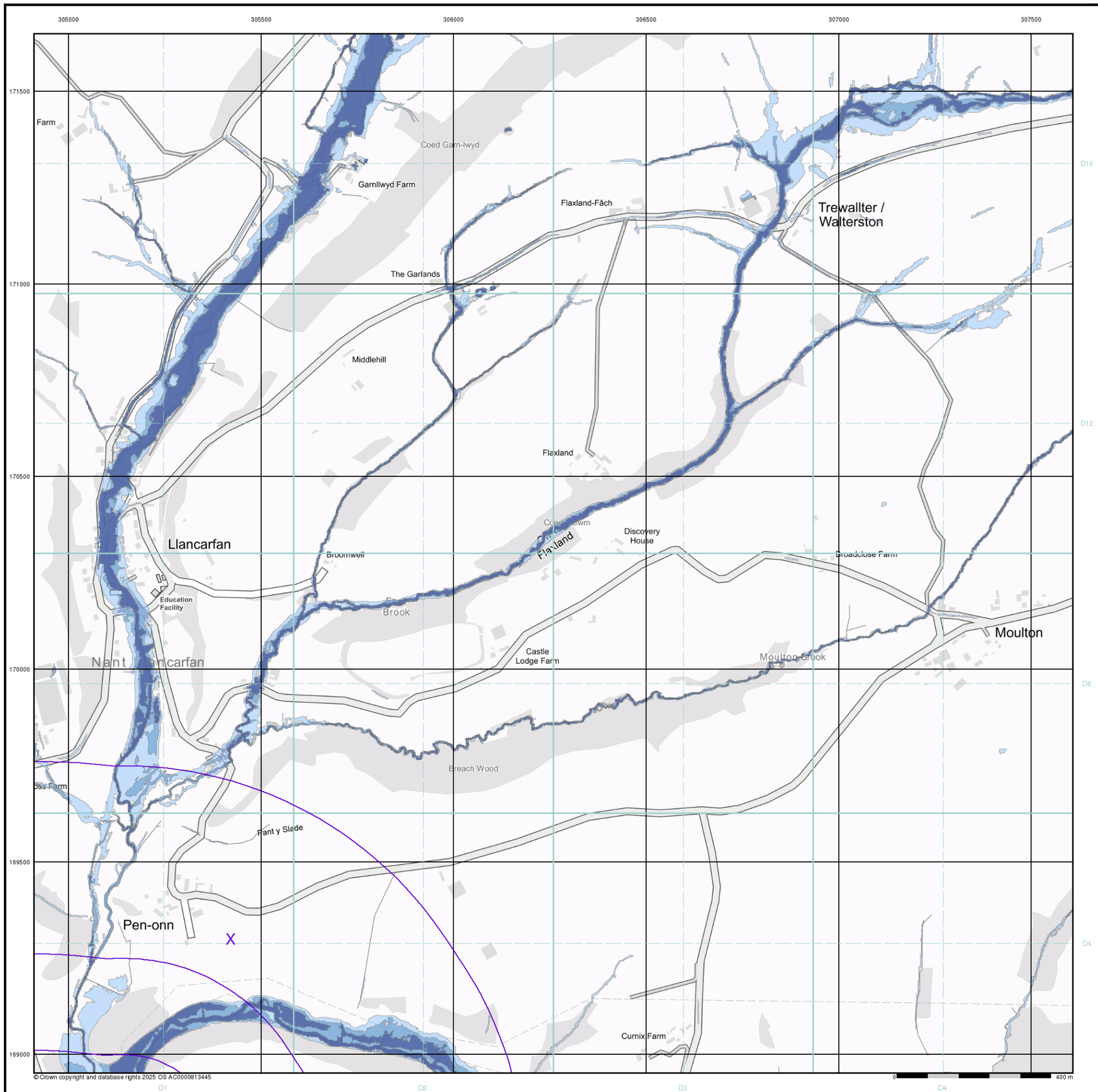

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LANDMARK INFORMATION GROUP®

General

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

Risk of Flooding from Surface Water

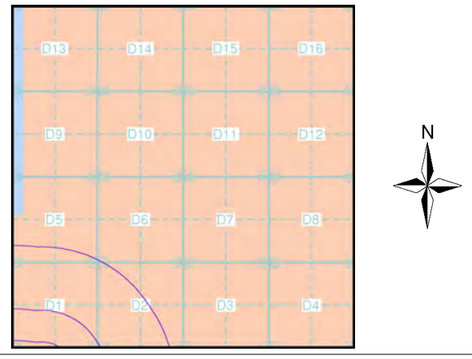
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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 D



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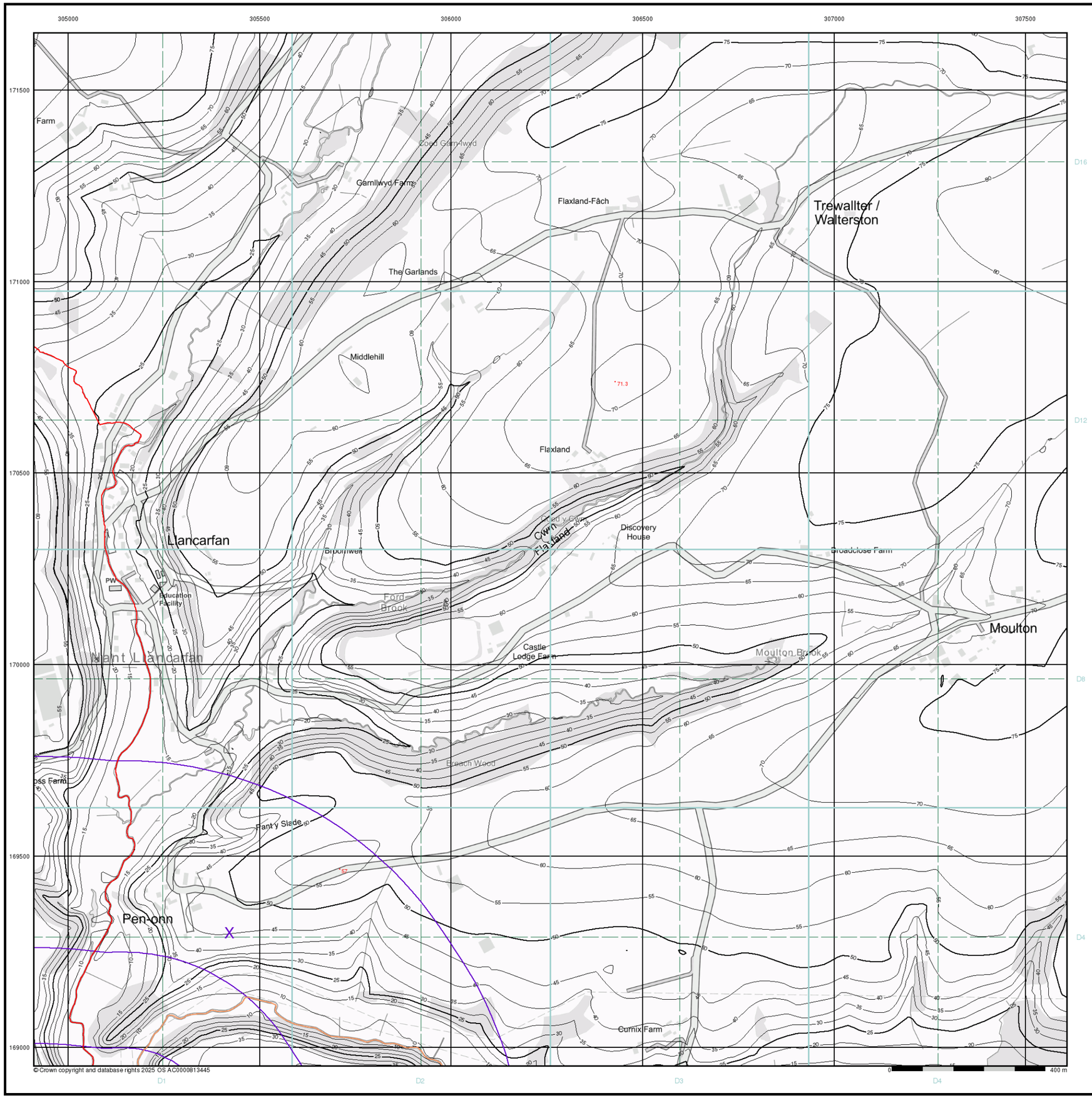

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WFD Surface Waters Map

General

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

Slice | Map ID

Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

Standard Contour 105

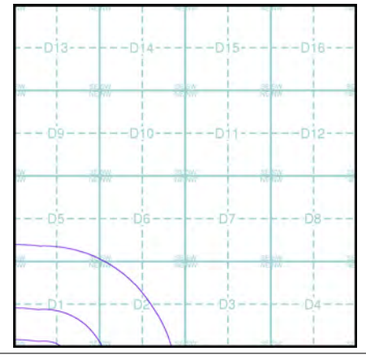
Master Contour 100 95

Spot Height 167.3

MLW Mean Low Water

MHW Mean High Water

WFD Surface Waters Map - Slice D



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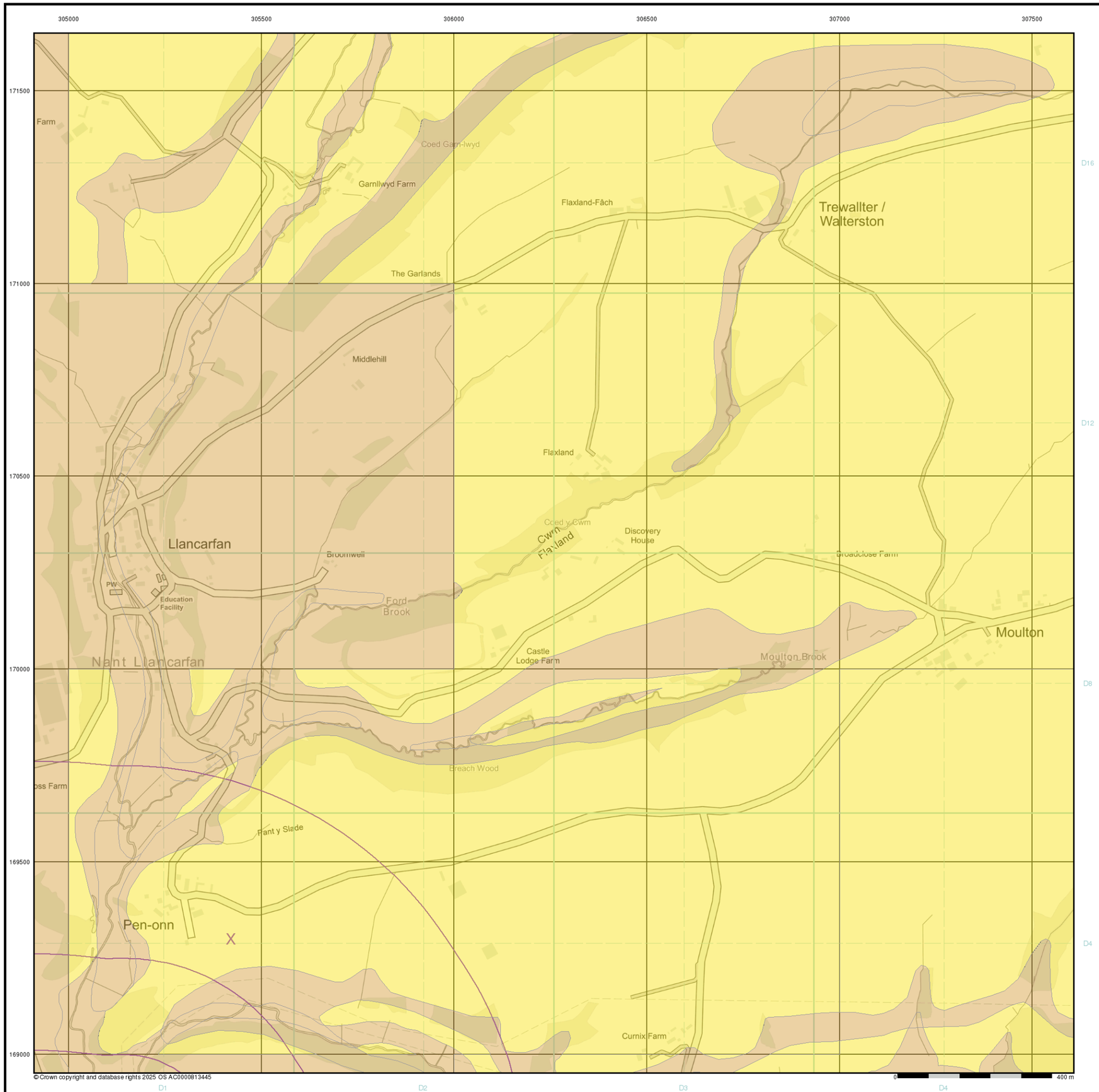

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General

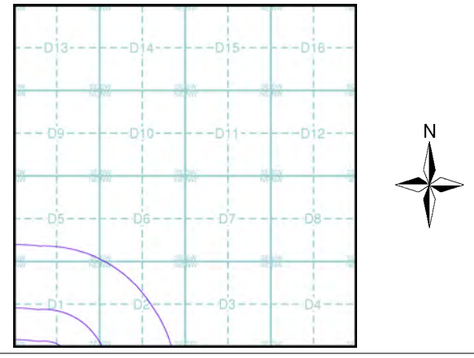
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 D



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Search Buffer (m):	1000

Site Details

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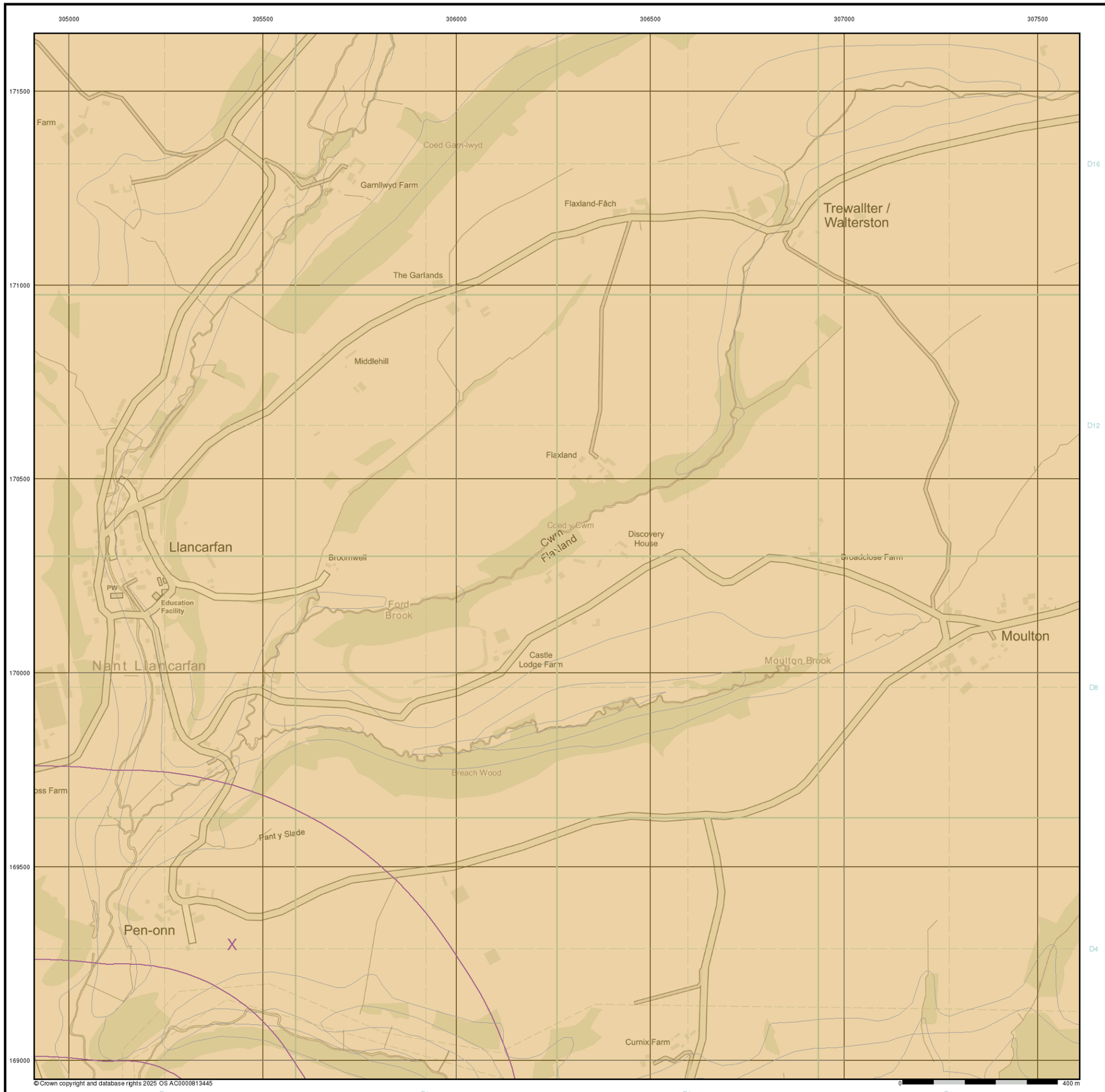

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General

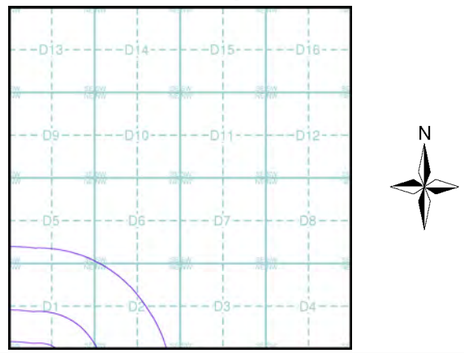
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

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

Estimated Soil Chemistry Cadmium - Slice D



Order Details

Order Details:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305420, 169300
Slice:	D
Site Area (Ha):	40.66
Search Buffer (m):	1000

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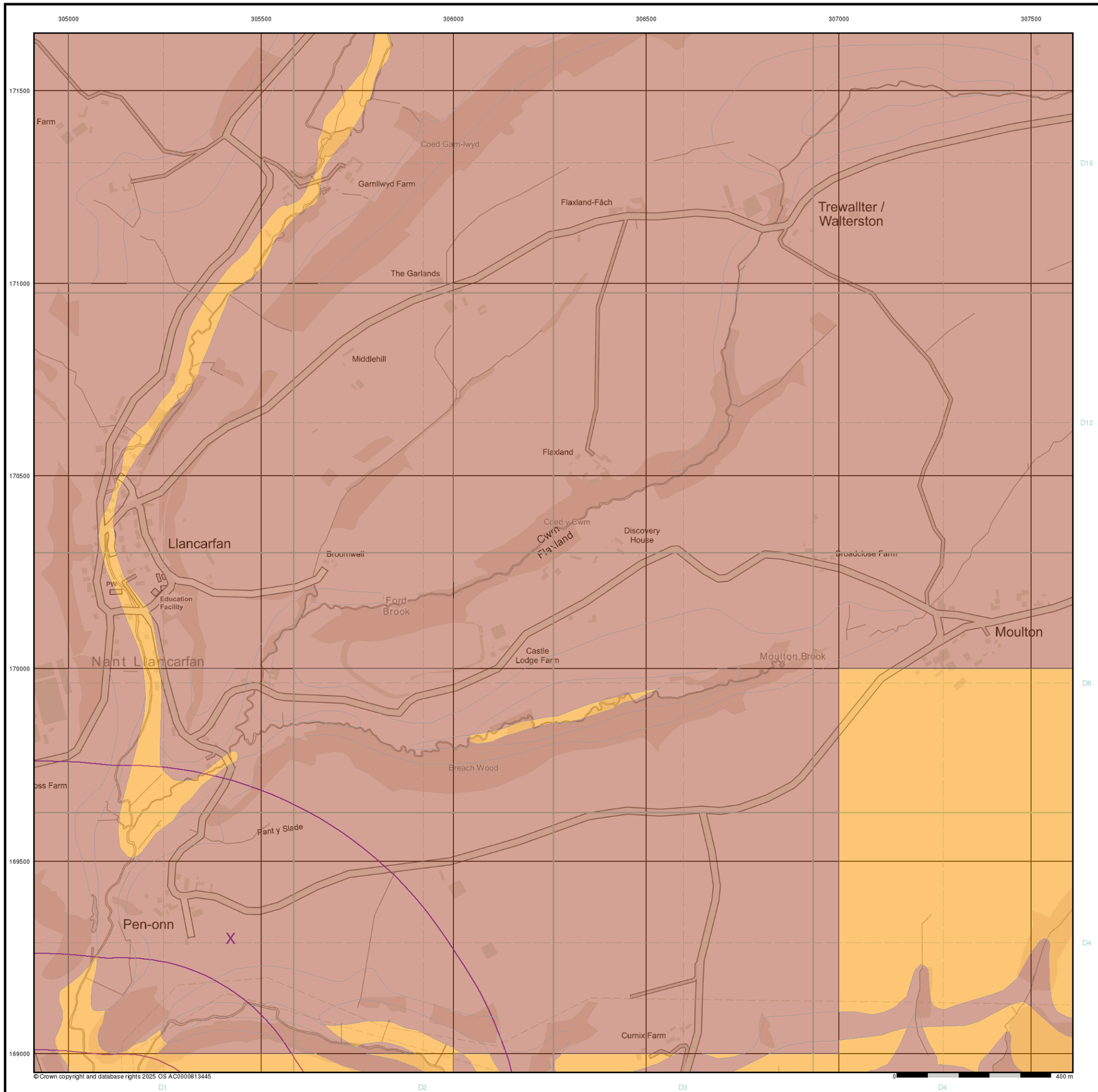

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General

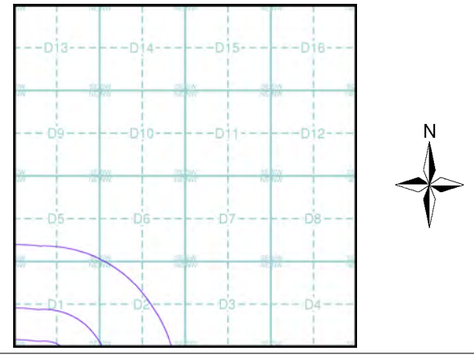
Specified Site Specified Buffer(s) X Bearing Reference Point

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 D



Order Details

Order Details:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305420, 169300
Slice:	D
Site Area (Ha):	40.66
Search Buffer (m):	1000

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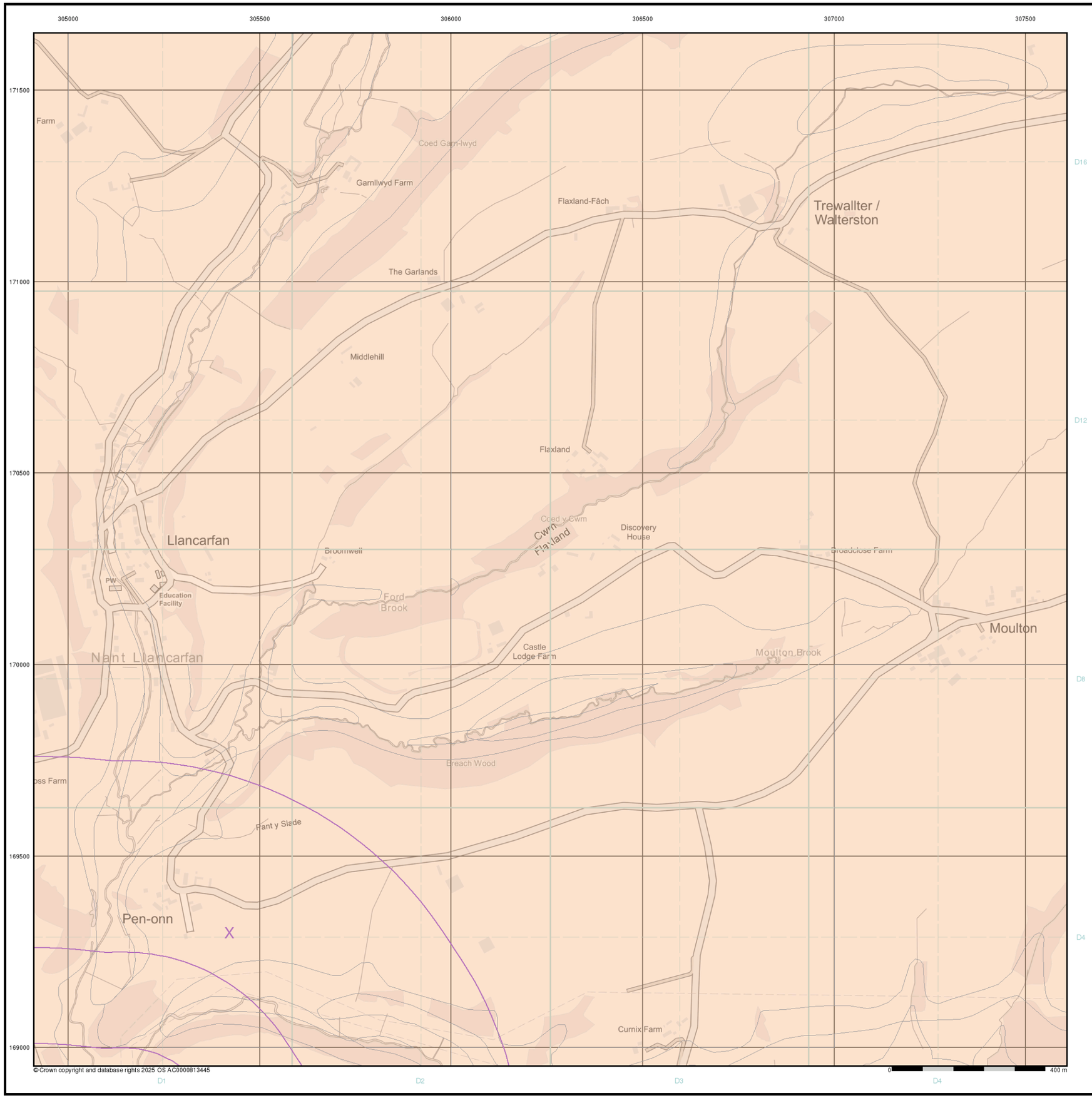

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General

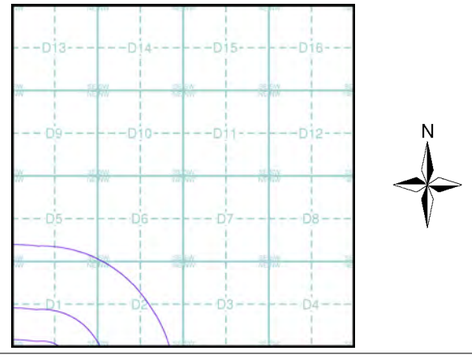
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 D



Order Details

Order Details:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305420, 169300
Slice:	D
Site Area (Ha):	40.66
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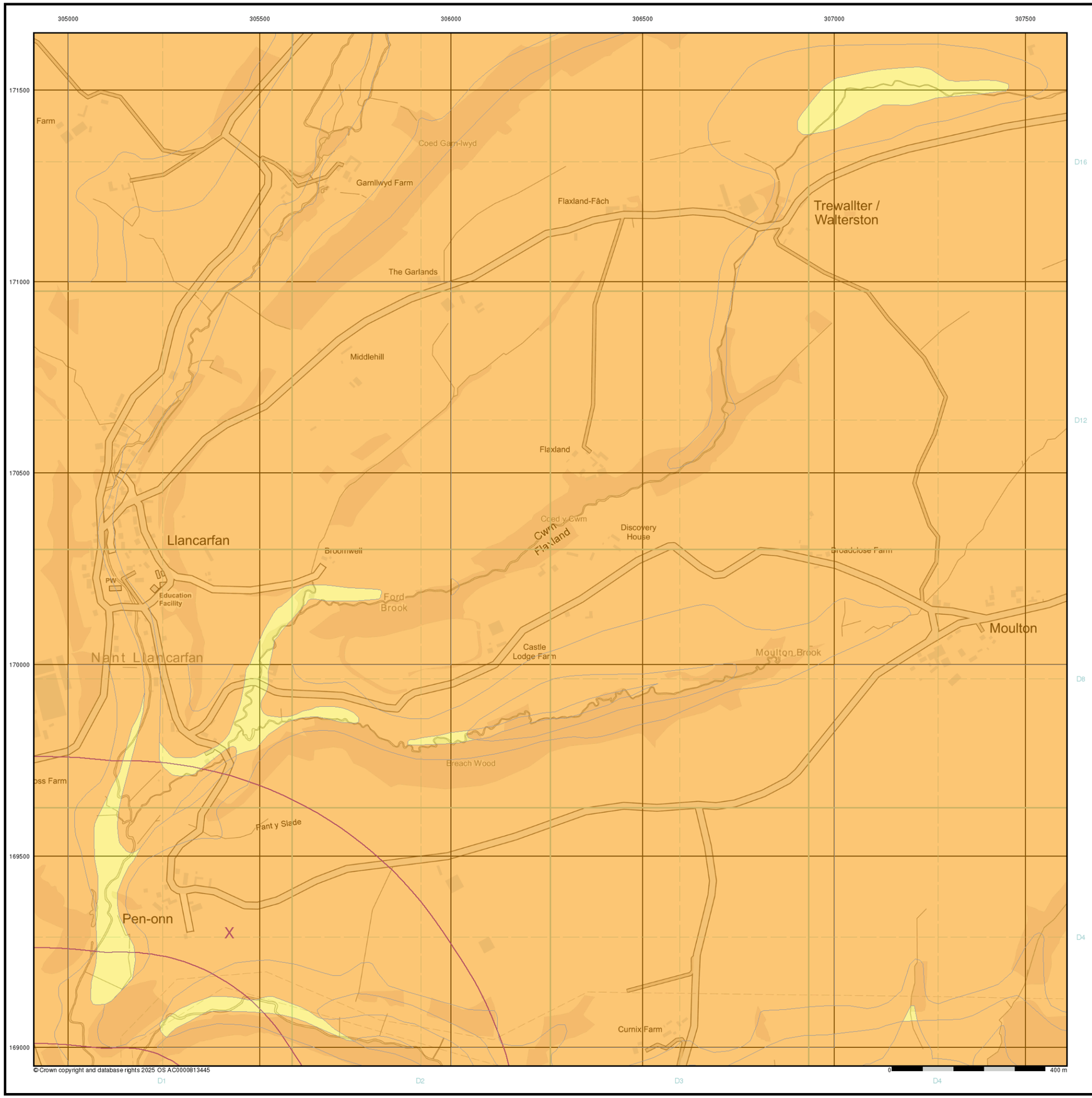

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General

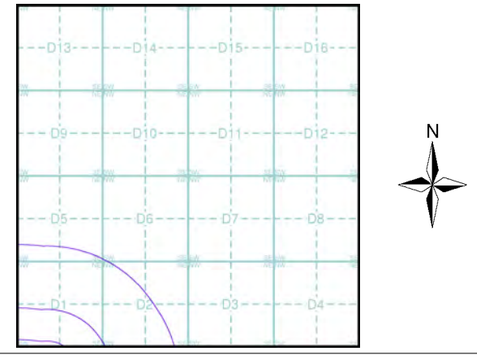
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 D



Order Details

Order Details:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	305420, 169300
Slice:	D
Site Area (Ha):	40.66
Search Buffer (m):	1000

Site Details

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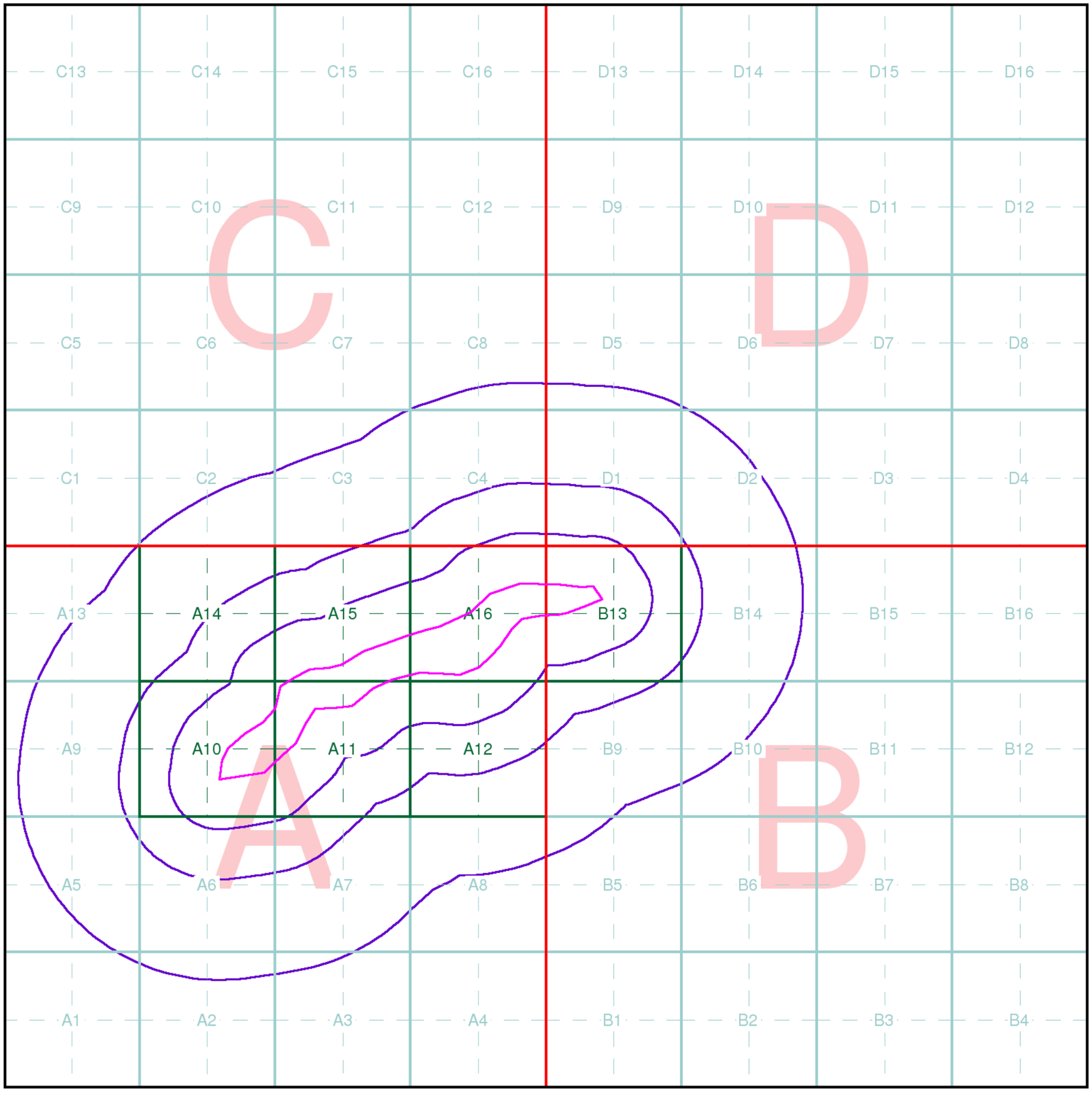

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Index Map

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

Miss A Atkins, JBA Consulting, Salt Mill, Saltaire, West Yorkshire, BD18 3LF

Order Details

Order Number:	367701071_1_1
Customer Ref:	2025s0023
National Grid Reference:	304170, 168350
Site Area (Ha):	40.66
Search Buffer (m):	1000

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B Appendix: Adopting the principle of accessibility

The methodology for this assessment is based on the Environment Agency's Land Contamination Risk Management (LCRM, which replaces previous guidance within CLR11). Stage 1: Risk Assessment requires that a Tier 1 Preliminary Risk Assessment is carried out ahead of development to assess the potential risk. The methodology used to establish the preliminary risk assessment is described below. Introduction

B.1 Qualitive Risk Assessment Methodology

Risk assessment is the process of collating known information on a hazard or set of hazards in order to estimate actual or potential risks to receptors. The receptor may be human health, a water resource, a sensitive local ecosystem or even future construction materials. Receptors can be connected with the hazard under consideration via one or several exposure pathways (e.g. the pathway of direct contact). Risks are generally managed by isolating or removing the hazard, isolating the receptor, or by intercepting the exposure pathway. Without the three essential components of a source (hazard), pathway and receptor, there can be no risk. Thus, the mere presence of a hazard at a site does not mean that there will necessarily be attendant risks. The following risk assessment thus focuses on those parts of the site where hazards or potential hazards have been identified and is not general to the whole site.

B.2 Hazards

Potential sources of contamination are identified for the site, based on a review of the current and previous site uses. Not only the nature but also the likely extent of any contamination is considered, e.g. whether such contamination is likely to be localised or widespread.

B.3 Receptors

The varying effects of a hazard on individual receptors depends largely on the sensitivity of the target. Receptors include any people, animal or plant population, or natural or economic resources within the range of the source which are connected to the source by the transport pathway. Receptors can, in addition, extend to remediation processes and future construction materials that may be adversely affected by on-site contamination. In general, however, receptors can be divided into a number of groups, dependant on the final use of the site.

B.4 Pathways

The mere presence of contamination does not infer a risk. The exposure pathway determines the dose delivered to the receptor and the effective dose determines the extent

of the adverse effect on the receptor. The pathway which transports the contaminants to the receptor or target generally involves conveyance via soil, water or air.

B.5 Exposure Assessment

By considering the source, pathway and receptor, an assessment is made for each contaminant on a receptor-by-receptor basis with reference to the significance and degree of the risk. In assessing this information, a measure is made of whether the source contamination can reach a receptor, determining whether it is of a major or minor significance. The exposure risks are assessed against the present site conditions. The assessment of risk presented here has been based upon the procedure outlined in DEFRA Circular 01/2006. In addition, DEFRA, with the Collaborative Centre of Excellence in Understanding and Managing Natural and Environmental Risks, Cranfield University, has published guidance on risk assessment (Guidelines for Environmental Risk Assessment and Management). A guide to good practice for contaminated land risk assessment has also been produced by CIRIA (CIRIA C552 2001). This guidance from DEFRA and CIRIA states that the designation of risk is based upon a consideration of both:

- The severity of the potential consequence [takes into account both the potential severity of the hazard and the sensitivity of the receptor].
- The likelihood of an event (probability); [takes into account both the presence of the hazard and receptor and the integrity of the pathway].

Table B-1 provides a classification of the potential severity of contamination risks occurring at the site, while Table B-2 summarises the probability classifications.

Table B-1: Classification of associated hazard [potential severity] (modified from CIRIA C552)

Classification	Associated hazard [potential severity]
Severe	Short-term (acute) risks to human health likely to result in significant harm. Short-term risk of pollution to a sensitive water resource or ecosystem. Catastrophic damage to crops/buildings/property/infrastructure, including off-site soils. Short-term risk to a particular ecosystem or organism forming part of such an ecosystem.
Medium	Chronic damage to human health. Risk of pollution of sensitive water resource or ecosystem. Significant change in a particular ecosystem. Significant damage to crops/buildings/property/infrastructure (on or off-site). Contamination of off-site soils.
Mild	Pollution of non-sensitive water resources. Significant damage to crops/buildings/property/infrastructure (on or off-site).

Classification	Associated hazard [potential severity]
Minor	Harm, although not necessarily significant harm which may result in a financial loss. Easily preventable, non-permanent health effects on humans, or no effects. Easily repairable damage to crops/buildings/property/infrastructure.

Table B-2: Classification of probability

Classification	Definition of probability
High	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage, and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low	There is a pollution linage, and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such an event would take place and is less likely in the shorter term.
Unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur even in the very long-term.

Once the classification of consequence and probability has been assigned to a pollution linkage, the risk associated with it can be evaluated. Table B-3 shows how a risk category is assigned based on the consequence and probability. Definitions of each risk category and the investigation actions that are likely to be necessary in each case are given in Table B-4. These definitions and the risk matrix are based upon CIRIA C552.

Table B-3: Contamination risk matrix

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High	Very high risk	High risk	Moderate risk	Moderate / low risk
	Likely	High risk	Moderate risk	Moderate / low risk	Low risk
	Low	Moderate risk	Moderate / low risk	Low risk	Very low risk
	Unlikely	Moderate / low risk	Low risk	Very low risk	Very low risk

Table B-3: Description of the risk classification and likely action required

Classification	Definition and likely actions required
Very high	There is a high probability of severe harm to a defined receptor, or there is evidence that severe harm is currently taking place. The risk is likely to result in a substantial liability. Urgent investigation (if not already undertaken) and remediation is likely to be required.
High	Harm to a designated receptor is likely. The risk, if realised, is likely to present a substantial liability. Urgent investigation (if not already undertaken) is likely to be required.
Moderate	Harm to a designated receptor is possible. However, it is either relatively unlikely that the harm would be severe or, if any harm were to occur it is more likely that the harm would be relatively mild. Investigation is likely to be required to clarify the level of potential liability and risk.
Low	Harm to a designated receptor is possible but is likely to be mild at worst. Further investigation is not required at this stage.
Very low	There is a low possibility of harm to a designated receptor occurring, and if it were to be realised it would be likely to be mild at worst. Further investigation is not required at this stage.

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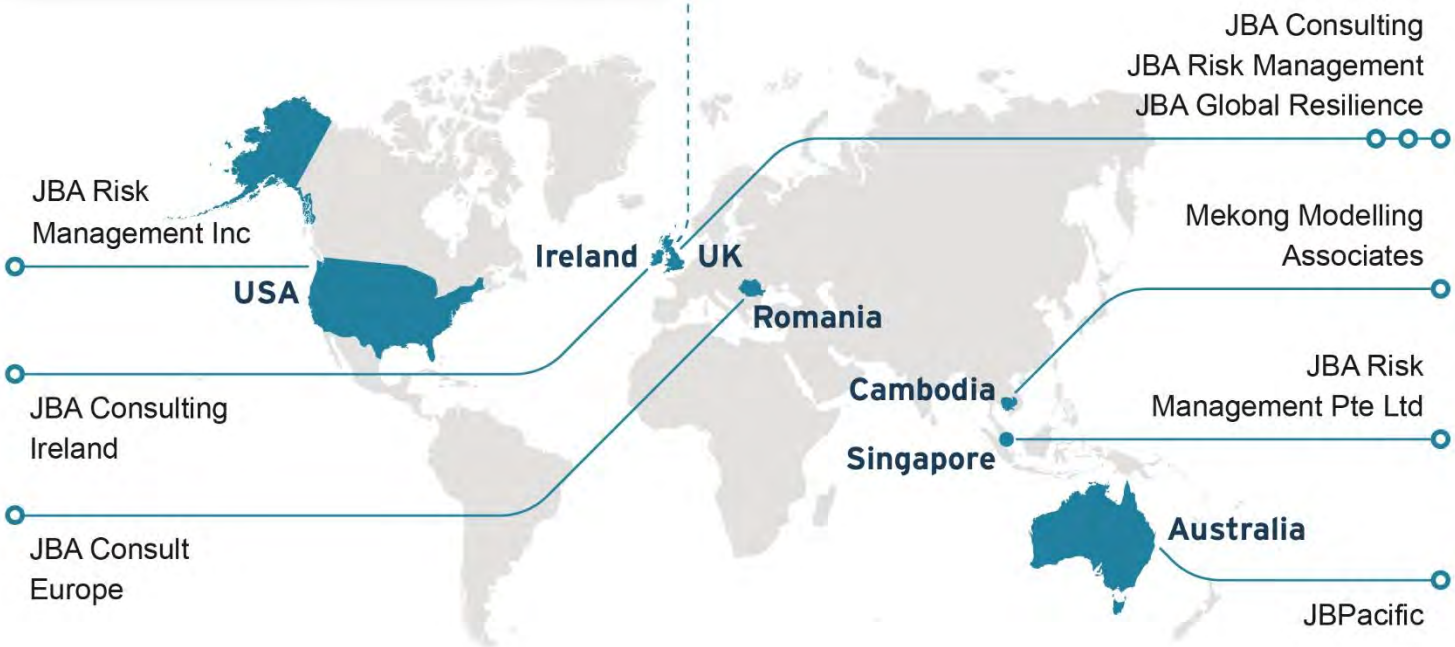

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