Ministry of Defence

Deep Space Advanced Radar Capability (DARC)

Environmental Statement Volume 3: Appendices

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Ministry of Defence

ES Appendix 11.1: Assessment Methodology – Contaminated Land

ES Appendix 11.1 Assessment Methodology – Contaminated Land

The following approach has been adopted in respect of assessment of the impacts of contaminated land and the proposed development.

1. Receptor Sensitivity/Value

1.1. There are two main receptors associated with contaminated land; humans (human health) and controlled waters (surface watercourses and groundwater bodies (aquifers)). Further identified receptors include below ground services and building structures.

1.2. Table 1 provides the criteria used to establish receptor sensitivity within the assessment. Table 1 is based on the approach described in ES Chapter 2. LA 109 Geology and Soils, Highways England, (2019) and the principles of EIA.

Table 1: Determination of the significance of residual effects

Sensitivity	Typical Descriptors
Very High	Controlled waters receptors with a very high sensitivity are those with a very high quality and rarity on a regional to international scale with very limited potential for substitution. An example is a Principal Aquifer proving potable water. Very high sensitivity human health receptors are residential areas.
High	Controlled waters receptors with high sensitivity are those with a high quality and rarity on a local scale with limited potential for substitution, or a medium quality or rarity on a regional to national scale with limited potential for substitution. Examples include an aquifer providing potential water to a small population and/or large resource potential. A Regionally Important Geological/Geomorphological Site (RIGS). Surface water features adjacent to the site or within significant hydraulic continuity to the site. Water bodies of good or very good status as defined by the Water Framework Directive. High sensitivity human health receptors include members of public using a recreational area and construction workers.
Medium	Controlled waters receptors with medium sensitivity are those with medium quality and rarity at a local scale with limited potential for substitution, or controlled waters body with a low quality and rarity on a regional to national scale with limited potential for substitution. Examples may include Secondary Aquifer units supporting abstraction for agricultural or industrial use and/or moderate resource potential. A non-designated geological exposure important at a regional or local scale. Other water features or water resources at or within 250 metres of the site not classed as ‘High’ value. Medium sensitivity human health receptors include working in industrial, commercial or retail employment areas.
Low	Receptor with a low quality and rarity on a local scale. Examples may include Unproductive strata (Aquifer designation), previously disturbed land or non-designated geological exposures important at a very local scale. Low sensitivity human health receptors including road and rail users .
Negligible	Receptor with low importance and rarity at a local scale.

	Examples may include non-aquifer geological units (including those that do not afford protection to underlying aquifer units). No designated geological exposures common at a regional or local scale.

2. Magnitude of Impact

2.1. The magnitude of predicted impacts is established with consideration of the following:

- Whether effects are short, medium or long-term;
- If effects are temporary or permanent;
- If effects are reversible or irreversible;
- If effects are direct or indirect; and
- The geographical extent to which effects are experienced.

2.2. Table 2 outlines how the magnitude of the potential impacts have been defined within the assessment.

Table 2: Definitions of magnitude of impact

Magnitude of impact	Adverse	Beneficial
Major	Loss of resource or reduction in the integrity of the resource. Degradation or damage to key characteristics of the resource	Major improvement or large scale improvement of resource quality. Restoration or enhancement.
Moderate	Loss of resource but no adverse effects on the integrity of the resource. Partial loss of or damage to key characteristics.	Benefit to or addition of key characteristics or improvement in quality of resource.
Minor	Some measurable change in quality or vulnerability. Minor loss or alteration to one or more key characteristics.	Minor benefit to or addition of one or more key characteristics. Potential improvement in resilience.
Negligible	Very minor loss or detrimental alteration to one or more characteristics.	Very minor benefit or positive addition of one or more characteristics.
No change	No observable adverse or beneficial impact.	

3. Significance of Effects

3.1. The following definitions of significance has been used within this assessment:

- **Substantial**: Typically associated with an adverse impact (likely high magnitude impacts and loss of resource integrity) on features of international, national or regional importance.
- **Major**: Beneficial or adverse effects which are considered to be material in the decision-making process.
- **Moderate**: Beneficial or adverse effects that may influence decision-making if they lead to an increase in the overall adverse effect on a particular resource or receptor.
- **Minor**: Beneficial or adverse effects on a local scale.

- **Negligible**: No effects or those effects so minimal they are imperceptible.
- **No change**: No material change in conditions.

3.2. The significance of the effect is assessed by considering the magnitude of the impact and the sensitivity of the receptor and is provided in Table 3. Effects at moderate or above are considered significant.

Table 3: Significance Matrix

	Magnitude of Impact				
Sensitivity	**No change**	**Negligible**	**Minor**	**Moderate**	**Major**
Negligible	No change	Negligible	Negligible or Minor	Negligible or Minor	Minor
Low	No change	Negligible or Minor	Negligible or Minor	Minor	Minor or Moderate
Medium	No change	Negligible or Minor	Minor	Moderate	Moderate or Major
High	No change	Minor	Minor or Moderate	Moderate or Major	Major or Substantial
Very high	No change	Minor	Moderate or Major	Major or substantial	Substantial

Professional judgement has been used to select the most appropriate significance where two options are available within the matrix.

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ES Appendix 11.2: Assessment Methodology – Waste and Materials

ES Appendix 11.2 Assessment Methodology – Waste & Materials

1. Waste

1.1. The following approach has been adopted in respect of assessment of the impacts of the proposed development on waste.

Receptor Sensitivity/Value

1.2. In accordance with the IEMA 2020 Guidance, the sensitivity of landfill void capacity during the demolition and construction of the proposed development will be established as follows:

Table 4: Sensitivity of inert and non-hazardous landfill void capacity

Negligible	Low	Medium	High	Very High
Landfill void will remain unchanged, or is expected to increase through a committed change in capacity.	Landfill void will reduce minimally: by <1% as a result of the wastes forecast.	Landfill void will reduce noticeably: by 1-5% as a result of wastes forecast.	Landfill void will reduce considerably: by 6-10% as a result of the wastes forecast.	Landfill void will reduce very considerably (by >10%); end during construction, is already known to be unavailable, or would require new capacity or infrastructure to be put in place to meet forecast demand.

Table 5: Sensitivity of hazardous landfill void capacity

Negligible	Low	Medium	High	Very High
Landfill void will remain unchanged, or is expected to increase through a committed change in capacity.	Landfill void will reduce minimally: by <0.1% as a result of the wastes forecast.	Landfill void will reduce noticeably: by 0.1-0.5% as a result of wastes forecast.	Landfill void will reduce considerably: by 0.5-1% as a result of the wastes forecast.	Landfill void will reduce very considerably (by >1%); end during construction, is already known to be unavailable, or would require new capacity or infrastructure to be put in place to meet forecast demand.

Magnitude of Impact

1.3. Table 6 outlines how the magnitude of the potential impacts on waste infrastructure has been defined within the assessment.

Table 6: Assessing the Magnitude of Impact- Inert and Non-hazardous Waste

No Change	Negligible	Minor	Moderate	Major
Zero waste generation and disposal from the development.	Waste generated by the development will reduce regional* landfill void	Waste generated by the development will reduce regional* landfill void	Waste generated by the development will reduce regional* landfill void	Waste generated by the development will reduce regional* landfill void

	capacity baseline# by <1%	capacity baseline# by 1-5%.	capacity baseline# by 6-10%.	capacity baseline# by >10%.

*or where justified, national.

forecast as the worst-case scenario, during a defined construction and/or operational phase.

Table 7: Assessing the Magnitude of Impact- Hazardous Waste

No Change	Negligible	Minor	Moderate	Major
Zero waste generation and disposal from the development.	Waste generated by the development will reduce national landfill void capacity baseline# by <0.1%	Waste generated by the development will reduce national landfill void capacity baseline# by 0.1-0.5%	Waste generated by the development will reduce national landfill void capacity baseline# by 0.5-1%	Waste generated by the development will reduce national landfill void capacity baseline# by >1%

#forecast as the worst-case scenario, during a defined construction and/or operational phase.

Assessing the Effect

1.4. An assessment of a projects impact (materials and waste) is undertaken to identify the effect (reduction in capacity) and significance to be evaluated. The potential for significant environmental effects is determined by considering the scale and nature of impacts within the context of the sensitivity of receptors affected as shown in Table 8.

Table 8: Assessment of Effect

	Magnitude of Impact					
		No Change	**Negligible**	**Minor**	**Moderate**	**Major**
Sensitivity (or value) of Receptor	**Very High**	Neutral	Slight	Moderate or large	Large or very large	Very large
	High	Neutral	Slight	Slight or moderate	Moderate or large	Large or very large
	Medium	Neutral	Neutral or slight	Slight	Moderate	Moderate or large
	Low	Neutral	Neutral or slight	Neutral or slight	Slight	Slight or moderate
	Negligible	Neutral	Neutral	Neutral or slight	Neutral or slight	Slight

Assessing the Significance

1.5. The significance of the effect is assessed as summarised in Appendix Table 9.

Table 9: Assessment of Significance

Effect	**Waste**
Neutral	Not significant
Slight	
Moderate	Significant
Large	

Very large	

2. Materials

2.1. The following approach has been adopted in respect of assessment of the impacts of the proposed development on Materials.

Receptor Sensitivity

2.2. Materials can be a receptor as well as a source of effect. The sensitivity of materials can be determined by identifying one or more of the criteria from the thresholds summarised in Table 10.

Table 10: Material Sensitivity

Negligible	Low	Medium	High	Very High
Are forecast (through trend analysis and other information) to be free from known issues regarding supply and stock; and / or are available comprising a very high proportion of sustainable features and benefits compared to industry-standard materials	Are forecast (through trend analysis and other information) to be generally free from known issues regarding supply and stock; and/or are available comprising a high proportion of sustainable features and benefits compared to industry-standard materials*.	Are forecast (through trend analysis and other information) to suffer from some potential issues regarding supply and stock; and/or are available comprising some sustainable features and benefits compared to industry-standard materials.	Are forecast (through trend analysis and other information) to suffer from known issues regarding supply and stock; and/or comprise little or no sustainable features and benefits compared to industry-standard materials	Are known to be insufficient in terms of production, supply and/or stock; and/or comprise no sustainable features and benefits compared to industry-standard materials.

*Subject to supporting evidence, sustainable features and benefits could include, for example, materials or products that: comprise reused, secondary or recycled content (including excavated and other arisings); support the drive to a circular economy; or in some other way reduce lifetime environmental impacts.

Magnitude of Impact

2.3. Table 11 outlines how the magnitude of the potential impacts on materials has been defined within the assessment.

2.4. The methodology for assessing the magnitude of impact comprises a percentage-based approach that determines the influence of materials consumption on the baseline market capacity in construction and operation (where applicable), in combination with the potential to sterilise (substantially) one or more allocated mineral sites.

Table 11: Assessing the Magnitude of Impact

No change	Negligible	Minor	Moderate	Major
No materials required and no impact on one or more allocated mineral sites.	No individual material type is equal or greater than 1% by volume of the regional baseline availability.	One or more materials is between 1-5% by volume of the regional* baseline availability; and/or the development	One or more materials is between 6-10% by volume of the regional* baseline availability; and / or one allocated	One or more materials is >10% by volume of the regional* baseline availability; and / or more than one allocated

	No impact on one or more allocated minerals sites.	has the potential to adversely and substantially# impact access to one or more allocated mineral site (in their entirety), placing their future use at risk.	mineral site is substantially# sterilised by the development rendering it inaccessible for future use.	mineral site is substantially# sterilised by the development rendering it inaccessible for future use.

* or where justified, national

justified using professional judgement, based on scale and nature of the allocated mineral site being assessed.

Assessing the Effect

2.5. An assessment of a projects impact (materials and waste) is undertaken to identify the effect (reduction in capacity) and significance to be evaluated. The potential for significant environmental effects is determined by considering the scale and nature of impacts within the context of the sensitivity of receptors affected as shown in Table 12.

Table 12: Assessing the Effect

	Magnitude of Impact					
		No Change	**Negligible**	**Minor**	**Moderate**	**Major**
Sensitivity (or value) of Receptor	**Very High**	**Neutral**	**Slight**	**Moderate or large**	**Large or very large**	**Very large**
	High	**Neutral**	**Slight**	**Slight or moderate**	**Moderate or large**	**Large or very large**
	Medium	**Neutral**	**Neutral or slight**	**Slight**	**Moderate**	**Moderate or large**
	Low	**Neutral**	**Neutral or slight**	**Neutral or slight**	**Slight**	**Slight or moderate**
	Negligible	**Neutral**	**Neutral**	**Neutral or slight**	**Neutral or slight**	**Slight**

Assessing the Significance

2.6. The significance of the effect is assessed as summarised in Appendix Table 13.

Table 13: Assessment of Significance

Effect	**Materials**
Neutral	Not significant
Slight	
Moderate	Significant
Large	
Very large	

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ES Appendix 11.3: Phase 1: LQA

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Land Quality Statement

Sweco UK Limited (Sweco) was commissioned by the Ministry of Defence (MOD) to undertake a Phase 1 Land Quality Assessment (LQA) at Cawdor Barracks.

The MOD are considering the development of a Deep Space Advanced Radar Capability (DARC) facility at Cawdor Barracks. This study was required to determine the environmental quality of the ground conditions of the Site and to assess the potential for related human health and environmental risks associated with the current use (anticipated to generally reflect the proposed future use).

Cawdor Barracks is currently the Head Quarters of the 14th Signals Regiment and comprises three general areas: an airfield; Technical Area and Barracks (including a small number of married quarters). The airfield is currently used for training (small arms, physical and electronic warfare). A compound within the Technical Area is currently being used by the US Military.

The Site was established as a satellite station for the nearby Royal Air Force base, RAF St David's, in 1944 before being occupied by the Fleet Air Arm of the Royal Navy in January 1946 and renamed HMS Goldcrest in 1952.

In February 1974 the RAF returned, with D Flight of 22 Squadron taking up residence. The RAF withdrew in the early 1990s and the Royal Signals Regiment took over the Site. The Site was named Cawdor Barracks.

An offsite US Naval Facility was set up approximately 100 m west of the Site circa 1946 (but detailed to have been built in 1957). A United States Naval Facilities Engineering Systems Command (NAVFAC) bulk fuel installation (BFI) was established on site (to the east of the runways) and connected to the off-site facility via a 2 km pipeline. The off-site facility is likely to have been decommissioned in 1997.

To evaluate the significance of the findings, a risk assessment was undertaken in line with the best practice adopting the source – pathway – receptor model.

Certain activities and features at the Site have been identified, both historical and current, which may give rise to sources of contamination which may be of importance for future operation of the Site or introduce constraints during any proposed development. These include:

- Source 1: Former Bulk Fuel Installations (Old BFI, BFI 1, BFI 2, and NAVFAC BFI);
- Source 2: Former Fire Training Area (FTA);
- Source 3: Former Fuel Bowser Parking;
- Source 4: Former tip/burning area;
- Source 5: NAVFAC BFI Pipeline;
- Source 6: Current BFI/POL Point;
- Source 7: Historical POL points and former above and below ground fuel storage tanks, and small former fire training area located within the technical area/barracks area;
- Source 8: Known asbestos contaminated area;
- Source 9: Infilled quarries/gravel pits, and linear mound, and;
- Source 10: Offsite former Brawdy Farm sand pit.

Receptors considered to be sensitive to potential contamination at the Site include current and future site users (including onsite workers and residents, and offsite residents and amenity users) and controlled waters, in particular unnamed water courses and springs around the periphery of the Site, the superficial Secondary A Aquifer (Glaciofluvial Deposits) and Secondary B Aquifer within the Lingula Flags, Triffleton Group, and Ramsey Sound Group solid geology.

Based upon information obtained and reviewed as part of this LQA it is considered that widespread contamination across the site is ***unlikely*** as a result of the historical use of the Site as an airfield or the current use of the Site as the garrison Head Quarters for the 14 Signal Regiment (Electronic Warfare). However, previous intrusive investigations at the Site have identified sources of localised contamination in a limited number of areas on the site predominantly associated with hydrocarbon and asbestos. The risk posed to all identified human health receptors under current site conditions is considered to be **moderate/low** at the most. It is considered likely that the proposed future use of an area of the Site as a radar facility will present a continuation of the current type of site use (commercial and residential land use). The risk posed to controlled waters receptors under current and future land use is considered to be **moderate** at the most.

Potential risks presented to human receptors by identified sources of contamination under a future land use scenario could be mitigated through consideration of sustainable design, good construction practices and effective environmental management systems. However, it is noted that this would not mitigate risks to controlled water receptors.

1 Introduction

1.1 Involved Parties

Sweco UK Limited (Sweco) was commissioned by the Ministry of Defence to undertake a Phase 1 Land Quality Assessment (LQA) at Cawdor Barracks (the Site).

1.2 Site Identification

The Site is located in Penycwm, Pembrokeshire, Wales (postcode SA62 6NN) and is centred at National Grid Reference (NGR) 184837 224687. The site location is shown on Figure 1 and the site boundary is shown on Drawing 65200861-CAWDOR_LQ_Stg1_LQA_01. The Site covers an area of approximately 310 hectares (ha).

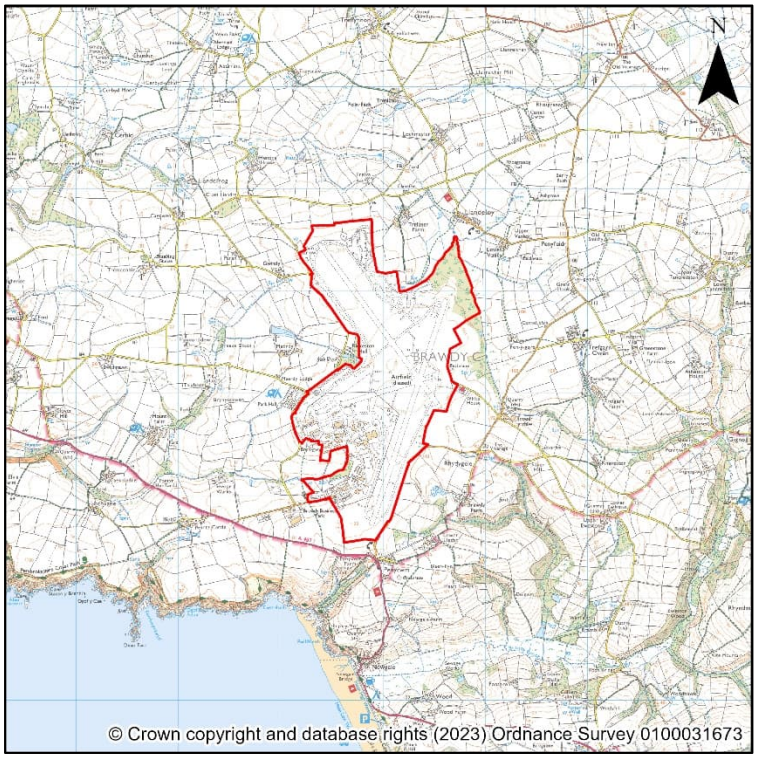


Figure 1 – Site Location Plan (not to scale)

1.3 Objectives

The purpose of this Phase 1 LQA has been to determine the environmental quality of the ground conditions at the Site and to assess the potential for human health and environmental risks. It is understood that the Site has been identified for the potential development of a radar facility as part of Project DARC. Continuation of the current commercial land use scenario has been considered in this Phase 1 LQA.

1.4 Project Background

The Site has been subject to a Phase 1 LQA completed by Entec UK ltd in 2011 and two phases of intrusive investigation undertaken in 2012 (AMEC UK Ltd, formerly Entec UK ltd) and 2015 (Amec Foster Wheeler UK Ltd). The above reports were reviewed as part of this Phase 1 LQA.

1.5 Project Scope

A summary of the methodology and approach adopted for completion of this Phase 1 LQA is presented in Appendix A.

1.6 Limitations

The study has been completed taking into consideration any operational and access restrictions. The report should be read in full and no excerpts are to be taken as representative of the findings. No responsibility is accepted by Sweco for the use of any part of this report in any other context.

The findings of Sweco's study are based upon the results of a desk based study and visual inspection of the Site and we rely upon professional judgement in its interpretation. This report presents the information obtained during the study and our opinion is based on the information made available to us during the given time period. Sweco has identified requested information that has not been provided to date. Sweco has exercised reasonable skill, care and diligence to assess information acquired during the preparation of this report but make no guarantee or warranties as to the accuracy or completeness of information provided by third parties.

1.7 Reliance

This report is prepared solely for the use of the Ministry of Defence (Client). No responsibility will be accepted where this report, either in its entirety or in part, is used by any other third party and no reliance shall be placed on the findings contained therein without prior written agreement from the Client and Sweco.

2 Site Description

2.1 Site Description and Adjacent Land Use

Table 2.1 provides a summary of principal site features and adjacent land use. The site layout is presented as Drawing 65200861-CAWDOR_LQ_Stg1_LQA_01.

Due to the variation in land uses, the Site is split into three discrete areas; the technical area/barracks area (with a combined area of 64 ha), and airfield (308 ha).

These areas are shown in detail on Drawing 65200861-CAWDOR_LQ_Stg1_LQA_01.

<table>
<tr><td>Site Description, Topography and Features</td><td colspan="4">The Site (Cawdor Barracks) lies within Penycwm, Pembrokeshire. The Site is the current garrison Head Quarters for the 14th Signal Regiment and can be split into three main areas: airfield; Technical Area, and Barracks. Cawdor Barracks also has a sewage treatment works, but this falls outside the boundaries of the Phase 1 area.

The airfield comprises three redundant runways and associated infrastructure including dispersals, and a redundant Explosives Storage Area (ESA). A ground to air beacon is located centrally within the airfield. Former infrastructure in the airfield includes bulk fuel installations (BFIs), oil-water interceptors (OWI) and aircraft hangars. Such features have largely been demolished. Additionally, a spoil heap, tip/burning area, and former fire training area have been identified in the airfield. The airfield is now used by the army for training. A sports field and assault course has been established in the southwestern area of the airfield and a cross country running course has been set up in the northern area. Arms training is undertaken in the ESA in the north of the airfield. Dummy/blanks are fired alongside smoke grenades, blank trip flares, and training grenades. Due to the remote nature and spatial extent of the airfield, the 14th Signal Regiment use this area for specialist electronic warfare training exercises.

Two clay pigeon shooting ranges are present within the airfield. Live ammunition is deployed at these locations.

A rally track has been set up ,as demarked by old tyres, in the northeastern part of the airfield. The airfield is also used by radio-controlled airplane club. Access by the public is limited at these events to members.

Grassed areas on the airfield are mown under licence by three local farmers but there are also areas of dense scrub vegetation. A number of infilled quarries have been recorded within the airfield.

The Technical Area and Barracks area are located within a secured compound. The technical area features a range of ancillary buildings and structures, including a secure compound used by the United States military. An operational BFI and paints, oils, and lubricants (POL) points are also located within the Technical Area. There is one vehicle washdown area currently in use. The Technical Area also features a 25m live firing range. The footprints of three demolished hangars are also visible in aerial imagery.

The Barracks area consists of a series of accommodation blocks, mess halls and married quarters.

The Site is positioned on a fairly flat plateau at an elevation of between 105 m Above Ordnance Datum (AOD) and 110 m AOD.</td></tr>
<tr><td rowspan="3">Ground Cover and Permeability</td><td colspan="3">Type of Ground Cover</td><td>Area (% estimate)</td></tr>
<tr><td colspan="3">Vegetation- grass meadow and scrub: high permeability</td><td>70%</td></tr>
<tr><td colspan="3">Buildings, macadam/concrete runway, associated infrastructure (including roadways, pavements, and footprints of former hangars) and ESA: low permeability</td><td>30%</td></tr>
<tr><td rowspan="4">Boundary Conditions and Adjoining Land Uses</td><td>Boundary</td><td>Estimated Length (m)</td><td>Current Status</td><td>Adjacent Land Use</td></tr>
<tr><td>North</td><td>2000</td><td rowspan="3">Where accessible, the perimeter of the airfield was observed to be delineated by a short, barbed wire fence with associated warning signage.

The condition of the fence was observed to be variable although the entire perimeter of the site was not inspected.</td><td>Adjacent land uses typically agricultural fields and scrub vegetation.

Trefaner Farm and hamlet of Llandeloy beyond.</td></tr>
<tr><td>East</td><td>2860</td><td>Adjacent land uses typically comprise agricultural fields and scrub vegetation. Newdale Lodge B&B and bunkhouse adjacent to the east. Hillcroft Escapes and Brawdy Farm retreats glamping sites within 550 m east.</td></tr>
<tr><td>South</td><td>950</td><td>Agricultural fields adjacent to the south. Village of Penycwm and the A487 beyond.</td></tr>
</table>

	West	4000		Adjacent land uses typical agricultural fields, Rickeston Hall, and an unnamed rural access road with agricultural fields, and Park Hall Village Camp site beyond. A notable land use within the general vicinity of the western site boundary is the Brawdy Business Park which was the former NAVFAC compound.
Technical Area/Barracks-internal compound	North	1000	Chain linked fence topped with barbed wire. Observed to be in a good state of repair.	Airfield
	East	850		Airfield
	South	360		Airfield, agricultural field
	West	1800		Agricultural fields, undeveloped area of the airfield consisting of scrub vegetation currently used to graze wild ponies. Park Hall Village campsite. A residential property is present adjacent to the south-western extent of the Site.

Table 2.1 – Site Description and Adjacent Land Use

3 Site History

3.1 Historical Ordnance Survey Maps

A summary of the development history of the Site and surroundings is presented in Table 3.1, together with an assessment of the potential for the historical use to have impacted the Site.

Assessment of the likelihood that the historical activities documented have led to the generation of contamination is based on an evaluation of the typical raw materials/chemicals used, by-products and wastes generated by the basic operational processes associated with the broad land use description given.

Our assessment also takes into account the significance of ancillary operations that may typically be associated with the main activities anticipated to have been undertaken.

It should be noted that in addition to the above, site specific operations may have been undertaken with potential to generate contamination. The presence of such operations may not be directly obvious based on the generic descriptions given on historical maps.

For security reasons, publicly available mapping data does not always reflect actual land use layouts of sensitive and strategic assets and hence the historical maps may not record the site for this reason.

The summary of site historical development presented in Table 3.1 is based on interpretation of historical Ordnance Survey maps and aerial photography obtained from Landmark Information Group (report 305022956_1_1) contained in Appendix B, and review of Previous Phase 1 LQA reports.

Date	Historical Activity	Potential Contaminants	Potential for Impact on Site?
1887	Site is undeveloped. Land use typically agricultural with small tracks and homestead present within the footprint of the Site. Areas of marshland and natural springs are also illustrated within the footprint of the Site.	No significant potential for contaminants identified.	No
1906-1908	No significant changes and the Site continues to be characterised by agricultural use. A small quarry is located within the eastern boundary of the Site.	No significant potential for contaminants identified.	No
1944 1946-	The base (RAF Brawdy) opened as a satellite station for the nearby RAF St Davids. *Airfield* The aerial photograph shows the airfield largely in its present configuration, however the northern extent of the NE-SW trending runway is shorter and the current dispersals are not present. The dispersals at that time were triangular and were located off the internal airfield perimeter road at several locations. An old explosives storage area (ESA) (five buildings) located to the northwest of the current ESA. The aerial photograph shows hutted buildings constructed to the south of the tip area. The 'old BFI' and NAVFAC BFI are identifiable in the photograph. The facility was used to store furnace fuel oil for heating an offsite US Naval Facility. The NAVFAC BFI was connected to the US Naval Facility by a 4" (100 mm) diameter pipeline over a distance of 1.5 km to 2 km. *Technical Area* During this time development within the technical area included three main hangars, and ancillary buildings.	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
1946-1952	The Site was passed to the Fleet Air Arm of the Royal Navy in 1946 and renamed 'HMS Goldcrest' in 1952. Mapping from 1948 shows a sewage treatment works has been constructed.	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of	Yes, potential for localised impact

Date	Historical Activity	Potential Contaminants	Potential for Impact on Site?
		unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	
1964	*Airfield* Aerial photographs dated 1964 indicate that the NE-SW trending runway was expended northwards at this time. The original triangular dispersals are in various states of repair. The explosives storage area in the north of the airfield was constructed. The old ESA buildings have been demolished. Hangars 3, 6, 7, 8, 9, 10, and 11 were constructed in the western area of the airfield. *Technical Area* Despite site establishment in the 1940s, the majority of buildings within the technical area were constructed in the 1960s.	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
1974	The Royal Air Force returned with D Flight of 22 Squadron taking residence. Caravan Park (Park Hall Village) established to the west of the Site.	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
1978	Sewage treatment works (off site) expanded to current configuration.	No significant potential for contaminants identified.	No
1983	*Airfield* The ground to air beacon is shown in its present configuration. The square structure at the former FTA is identifiable in the photograph. Infrastructure associated with BFI2 identifiable within the photograph. The fuel bowser parking area is identifiable on the aerial image.	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
1992	The RAF withdrew from the Site in the early 1990s. Rounded dispersals and Oil Water Interceptor (OWI 2 of 3) shown in their current configuration. Evidence of stockpiled materials at the site of the 'spoil heap' in the vicinity of BFI2.	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
1995-Present	The Site is referred to as Cawdor Barracks and is the garrison headquarters for the 14th Signal Regiment. The technical and domestic was secured by an internal security fence to delineate it from the redundant airfield. The airfield continues to be used for personnel training. There have been small scale demolitions of buildings between 1995 to present.	The site has the potential for storage of fuel oils / hydrocarbons from on-site operations and repair works. Presence of made ground of unknown origin. Metals, PAHs associated with ash deposits. Possible ACM and unexploded ordnance.	Yes, potential for localised impact
2000	The former US Naval Facility located offsite is shown to be used as a business park (Brawdy Business Park).	There is potential for the storage of fuels and chemicals at the business park.	No

Table 3.1 - Summary of Historical Development

3.2 Historical Site Plans and Records

No historical plans provided during the site walkover. The Previous Phase 1 LQA includes information provided part of the previous heritage archive search.

3.3 Dstl Radiological Search

Defence Science and Technology Laboratory (Dstl) completed a radiological records search for the Site in July 2020 (Appendix C).

The MOD Radioactive Holdings Database stated the 14th Signals Regiment held radioactive materials at the Site. These sources were tritium (H-3), also referred to as gaseous tritium light sources (sight unit small arms (SUSTA) rifle scopes). The unit previously held equipment containing nickel-63, chlorine-36, and Strontium-90.

Brawdy Dental Centre was located on the Site, however the dental centre did not hold any radioactive material (X-ray only).

Records suggest that a number of radionuclides were held as part of military equipment and legacy items when the site was operated as RAF Brawdy. These nuclides include chlorine-36, strontium-90, promethium-147, radium-226, natural uranium and americium-241.

Dstl reviewed their archive information as part of the radiological records search. A previous desk study for Cawdor Barracks was undertaken by Dstl in November 2010 which concluded that the likelihood of radiological contamination issues at Cawdor Barracks is deemed low. Prior to 2010, a DRPS desk study was undertaken in 1997 which also stated that it was unlikely that there is any significant radiological contamination at RAF Brawdy.

Dstl could not find any published information (held on the MOD intranet/public internet sources) regarding radiological contamination at the Site and there were no records of any radiological contamination surveys identified. No contamination issues were flagged in previous radiation protection advisory visit reports for the 14th Signal Regiment.

After reviewing desk study information, Dstl concluded (to the best of their knowledge) that they were not aware of any radiological contamination at Cawdor Barracks.

3.4 Unexploded Ordnance

A summary of UXO Estate Intelligence for the Site was completed by DIO in July 2019 (Appendix D). The summary identifies potential sources of UXO contamination as follows:

- Two former ESAs located on site. The Previous Phase 1 LQA records that small arms ammunition (SAA)and pyrotechnics are now stored in the armoury and that SAA is also held forward in the guardroom for use by security personnel;
- The Previous Phase 1 LQA states that there was a .22 calibre small bore range on the Site, although the location is not confirmed. The LQA also contains a Site Plan which showsAircraft shooting in butts located on site (Grid Reference SM 847 254). A machine gun and cannon range was originally located at Grid Reference SM 848 244, and this was converted to a small arms range before being demolished and replaced by the current 25 m Small Arms Range located at Grid Reference SM 848 243;
- Parts of the former airfield are currently used as a training area (dry training). Spent small arms cartridges were observed within the former ESA area during the site inspection;
- There are no indications of a practice bombing range on site;
- No WWII anti-invasion defences (demolition and depth charges, minefields, and pipemines) were recorded on site;
- There are no records of abandoned bombs on the site;

- No information is held relating to enemy bombing;
- No RAF WWII Chemical Weapons (CW) were recorded as being used at the site. RAF Command Scientific Support Branch (CSSB) WWII CW Legacy report dated March 1999 assesses the site as Cat 5 suggesting it is very low risk where some ground training occurred using live agent, and;
- The previous Phase 1 LQA contains a 'Certificate of Search for Clearance of Explosive Materials and Other Dangerous Goods' which was issued in October 1995 prior to site handover from the RAF. The search was largely visual and likely completed by the station and not Explosive Ordnance Disposal personnel.

3.5 Historical Air Photographs

Historical aerial photographs are provided by the Welsh Government's Aerial Photos Unit online map. The Welsh Government's Aerial Photography Unit (APU) map viewer provides two historical aerial photographs of the Site. The aerial photograph dated 1969 shows the airfield in current configuration, hangars and buildings within the technical area and accommodation areas. Triangular dispersals shown to be on site which are later replaced by the current configuration in 1992. The aerial photograph dated 2013 provided on the APU map viewer shows there has been demolition of hangars on the Site.

Additional historical aerial photographs have been provided in the previous Phase 1 LQA (summarised in Table 3.3). All photographs reviewed indicate the presence of the RAF airfield and infrastructure and are provided in Appendix E.

Date	Ref.	Description of Key Points/Observed Land Use
1946	National Monuments Record (provided with previous Phase 1 LQA)	Aerial photograph shows airfield runways, dispersals and buildings in the current technical area. Evidence of former ESA in the north of the airfield.
1964		Aerial photograph shows there have been expansions to the northeast-southwest trending runway. ESA shown in current configuration. Additional hangars constructed. Removal of some dispersal areas.
1969	Welsh Government's APU map viewer	No significant changes noted in the aerial photograph.
1983	National Monuments Record (provided with previous Phase 1 LQA)	No significant changes noted in the aerial photograph.
1992		Current dispersal layout identified within aerial photograph. Additional buildings have been constructed within the Technical Area.
2000		No significant changes noted in the aerial photograph.
2006		Demolition of some of the hangars. No further significant changes noted in the aerial photograph.
2013	Welsh Government's APU map viewer	Hangars demolished. Demolition of eastern extent of one of the runways.

Table 3.2 - Historical Air Photographs

3.6 Previous Investigations and Reports

Previous reports listed in the references (section 9) have been reviewed by Sweco. Table 3.4 provides a summary of the scope of each of the previous reports.

Report Title	Date/Author	Summary of Scope
Hardened Aircraft Shelters, March 1987. Internal Military Works Force Report	Internal Military Works Force March 1987	(Summary provided in Entec Phase 1 LQA (dated 2011)). Intrusive investigation (12 trial pits and nine boreholes) to identify potential sites of nine hardened aircraft shelters. Follow-up radiological investigation undertaken by Dstl
RAF Brawdy (FTA) Phase 1 and Phase 2 Combined Report	Entec UK, 1998	(Summary provided in Entec Phase 1 LQA (dated 2011)). Intrusive investigation of the FTA comprising three rotary boreholes to a depth of 10 mbgl and ten trial pits progressed to a maximum depth of 3.7 mbgl.
RAF Brawdy (BFI 1) Phase 1 and Phase 2 Reports	Entec UK 1995 and 1998	(Summary provided in Entec Phase 1 LQA (dated 2011)). Investigation of soil and groundwater contamination at the BFI 1. A total of four rotary boreholes were progressed to a maximum depth 10 mbgl and 20 No. trial pits were excavated to a maximum depth of 4 mbgl.
RAF Brawdy (Cawdor Barracks) Groundwater Monitoring Interpretative Report	Entec UK 2001	(Summary provided in Entec Phase 1 LQA (dated 2011)). Groundwater monitoring of boreholes at the FTA and BFI 1. Monitoring was undertaken on four occasions at 3-monthly intervals between September 1999 and 2000.
Cawdor Barracks-Groundwater Monitoring Letter Reports	Entec 2009 and 2010	Two rounds of groundwater monitoring of functional boreholes located at the FTA and BFI 1.
Phase 1 LQA	February 2011 Entec UK Ltd	Entec UK Ltd completed a site-wide Phase 1 LQA of the Site and identified a number of potential contamination sources related to historical and current land uses. The Phase 1 LQA also includes reference to the sewage treatment works that forms part of the Site but is excluded from this current Phase 1 LQA.
Phase 2 LQA	February 2012 Amec Environment & Infrastructure UK ltd (Amec)	Amec completed a Phase 2 LQA, targeting the following sources of contamination: • Former BFIs (including BFI1, Old BFI, BFI2 and the NAVFAC BFI • NAVFAC BFI Pipeline • Former fire training areas • Former fuel storage facilities • Workshops including POL Point, POL store and waste oil • Fuel bowser parking and inspection areas, and • Former site tip/burning area • Former ESAs and historic 25 m firing range • Known asbestos contaminated land area • Demolished buildings The Phase 2 investigation also included radiological survey of the tip/burning area and fire training area. Route tracing of the NAVFAC buried pipeline was also undertaken.
Cawdor Barracks-Targeted Groundwater and Vapour Assessment LQA Report	July 2015 Amec Foster Wheeler	This Phase 2 LQA focussed on three areas within the airfield: • The fire training area • The old BFI • BFI 1

Table 3.3 – Summary of Previous Reports

Relevant information is provided below and information relating to ground conditions is provided in Section 6.

Phase 1 LQA, Entec UK 2011

The Phase 1 LQA lists the following potential historical sources of contamination:

- Motor transport (including aircraft) maintenance;
- Aircraft operations including historic aircraft parking of the Vulcan Bombers and their nuclear munitions. The Vulcan Bombers were parked on the airfield or local dispersal and not stored in hangars or disarmed in any way. The Vulcan Bombers were vulnerable to fuel leakage but there was evidence to suggest significant, local refuelling was concentrated around the aircraft dispersals. There is little to no potential for radioactive contamination to be present on site as a result of this activity;
- Explosive storage and use of small arms munition;
- Waste disposal and burning of waste;
- Former waste transfer/storage area;
- Former distribution substations;
- Former engine test house;
- Former standby generator houses;
- Hangars;
- Workshop facilities;
- Disused OWI;
- Made ground embankments across the site including near sports pitches;
- Bulk fuel and oil storage with associated handling operations and dispensing;
- Movement of fuel oil via below ground pipeline from NAVFAC BFI to off-site US Naval Facility;
- Lower volume fuel and chemical storage and dispensing (POL Points and workshops);
- Firing ranges;
- Fire training areas;
- Building demolition;
- Former buildings containing asbestos including hutted buildings to north and west of Building 468 and church;
- Area of known asbestos contamination near the Quarter Masters Stores, and;
- Aircraft parking, airfield use and crashes.

Previous reports are also summarised within the Phase 1 LQA. The following salient points are provided in relation to the previous reports:

- The Hardened Aircraft Shelter investigation (1987) identified the former tip area/ burning site in the northern extent of the airfield. Anecdotal evidence at the time suggested an unspecified quantity of radioactive valves may have been disposed of in the tip. A non-intrusive radiological investigation was undertaken by Dstl subsequent following the intrusive investigation. No elevated readings were reported though no sub-surface investigation was undertaken;
- The Phase 1 and Phase 2 combined report by Entec UK (1998) reported weathered fuel-based hydrocarbons at low levels within soils across the FTA. Locally elevated levels of kerosene type banded hydrocarbons were encountered within the groundwater at this location. The highest concentrations were recorded near the OWI in the vicinity of the FTA. Recommendations were made to clean the interceptor and establish a monitoring programme to assess the potential for natural attenuation;

- The Phase 1 and 2 Reports of intrusive investigation at the BFI 1 (Entec UK 1995 and 1998) cites anecdotal evidence of complaints made in 1969 relating to oil migration from BFI 1 into the adjacent property of Rickeston Hall (basement and pond). In response to the complaints the Defence Lands staff took steps to investigate a large circular tank by having it emptied and inspected for leaks. Additionally, a trench was excavated between the tank and the boundary fence to identify oil seepage. Improvements to an OWI were also undertaken. Results of the tank and trench investigation revealed 'virtually no oil seepage at all' and no further correspondence reports were provided. An updated intrusive investigation of BFI 1 was undertaken by Entec UK during which weathered kerosene diesel and carboxylic acids were present at low concentrations in the soil and locally elevated concentrations of gasoline and kerosene banded hydrocarbons were found within the groundwater, and;
- Supplementary groundwater monitoring of boreholes at the FTA and BFI 1 was undertaken between September 1999 and June 2000, and in 2009 and 2010. The later monitoring suggested there was still a source of free phase or residual hydrocarbons present in the BFI 1 area. A source of free phase and/or residual hydrocarbons was present in the FTA, but predominantly down slope of the elevated 'fire pit'. The data suggested that active degradation was still occurring at that location.

The Phase 1 LQA assessed the following sources as having a significance of moderate or higher:

- BFI 1 - constructed in the 1950s and 60s and stored AVTUR F34 FSii in 10 No. 54,500 litre above ground tanks mounted on a concrete plinth and bunded within a 1.9 m high firewall. Drainage within the bunded area was routed to a buried oil interceptor tank (demolished). One semi buried circular tank with a capacity of 772,000 litres was also located at the site of the BFI 1. The tanks were removed and the circular tank was partially demolished and completely filled in;
- Old BFI – fewer details are available regarding this installation but it is understood to have potentially comprised 6 No. semi-buried tanks of an unspecified capacity. The tanks were filled with concrete when the facility was decommissioned in 1993;
- BFI 2 - comprised two semi-buried tanks with combined capacity of 1.5 million litres (storing AVTUR F34 FSii), one above ground Plant Dieso (diesel) tank with a capacity of 8,000 litres and one slops tank with a capacity of 5,500 litres (containing AVTUR F34 FSii). The facility was believed to have been decommissioned in 1997 but verification data relating to the decommissioning is not available;
- NAVFAC BFI and associated NAVFAC BFI pipeline - there were 6 No. of diesel oil tanks with a combined capacity of 330,000 litres. The facility is thought to have been decommissioned in 1997 but the quality of decommissioning cannot be verified. Considering the dimensions, approximately 15,700 litres of heating fuel oil may have remained within the NAVFAC BFI pipeline which connected the BFI with the NAVFAC using a 4 km long 4" diameter pipeline. Anecdotal information reviewed at the time of the report suggested that a contractor cut into the pipeline believing it to be a water pipe and heating fuel oil leaked out to the ground. The route of the pipeline was traced as part of the scope of works;
- FTA - Flammable materials such as kerosene were floated on water retained within the brick and concrete 'tank-like' structure. The flammable materials were ignited and extinguished during training exercises. The residual mixture of water, part burnt and residual flammable liquids was drained to a series of six oil interceptors, eventually discharging to ground via a soakaway;
- Former fuel storage facilities including NAVFAC and Building 5 POL points;
- Furnace fuel oil installation north of Hangar 7 - Two bulk tanks of unsubstantiated capacity contained 3/50 FFO (DIESO) used to fuel space heating within the main hangars. The tanks were located on hardstand within a concrete bund. The condition of the tanks and bunds at the time of decommissioning was not known;

- Site boiler house heating oil tanks - two bulk storage tanks with an estimated capacity of 50,000 litres which contained 3/50 FFO (Dieso) were decommissioned and removed circa 1992. They appeared to have been located on hardstand within a brick/concrete bund but this was not confirmed;
- Former standby generator and two standby generators - Former site standby generator House (building 231) had two above ground fuel tanks with individual capacities of 20,000 litres (Dieso). Discussion on site suggested that the tanks were located below ground and filled with foam as part of their decommissioning;
- Former engine (Ardour) test house - One associated above ground fuel storage tank with a volume of 23,000 litres of AVTUR F34 FSii. The condition of this tank and associated infrastructure prior to removal was not known;
- Former cinema - 45,000 litre below ground tank that may have contained fuel oil for heating purposes. In 1981 it was noted to be water filled and unserviceable;
- Workshops including current POL Point, POL store and waste oil;
- Fuel bowser parking and inspection areas in the vicinity of former Hangar 11 - 11 No. fuel bowsers with a combined capacity of approximately 115,000 litres. No records of spillages or leaks in this area are kept, and;
- Former site tip/burning area.

The following sources were also investigated as they were thought to present a potential liability should there be a change in site use:

- Former ESAs and historical 25 m firing range;
- Known asbestos contaminated land area, and;
- Demolished buildings (historical- 3 infilled quarries/gravel pits).

Phase 2 LQA, Amec UK 2012

A phase 2 LQA investigation was undertaken targeting pollutant linkages previously assessed as having a significance of “moderate” or higher within the previous Phase 1 LQA (Entec UK, 2011).

The ground investigation was undertaken between 25 July and 12 August 2011 and comprised 23 rotary boreholes, 38 window sample holes, 14 hand dug pits, 8 surface samples (within the ESA), and 24 machine excavated trial pits.

In addition to the intrusive investigation, a specialist service utility tracing contractor was commissioned to locate the route of the NAVFAC pipeline.

Entec concluded that the majority of the areas investigated were suitable for the current use without the need for significant mitigation or remedial measures to protect site users.

Contamination of the groundwater and soils at discrete locations of the site was unlikely to present a significant pollutant linkage. The potential for cross boundary migration of hydrocarbons in groundwaters and vapours in the vicinity of the adjacent Rickeston Hall was not ruled out.

With regard to the suitability of the Site for redevelopment and commercial/industrial end use, Entec UK suggested there was a low to moderate/low risk to future site users and a moderate risk is assessed relating to the potential for exposure to explosive ordnance in the former ESA and firing range (referred to in the report as ‘Zone 5’). Entec UK stated that the recorded presence of asbestos within soils and potentially within buildings may need to be addressed and recommended further assessment to quantify the risk associated with groundwater contamination and vapour.

In addition to the intrusive investigation, a radiological walkover survey was also completed covering the former site tip/burning area and the FTA. Radiological activity was greatest within the FTA, although readings were not significantly in excess of background levels and remained below levels for ‘waste exempt from requiring a permit’ (805.54 counts per second).

Cawdor Barracks - Targeted Groundwater and Vapour Assessment LQA Report, Amec Foster Wheeler, 2015

The intrusive investigation targeted the Old BFI, BFI 1 and FTA due to the previous assessed moderate risks to controlled waters and potentially unacceptable risk to neighbouring residents (Rickeston Hall) from hydrocarbon vapours.

The following conclusions were reported:

- The interceptor at BFI 1 was noted to be well maintained;
- The location of the Old BFI was identified and trial pitting confirmed the presence of six sand filled tanks. The sand was observed to be stained and had a slight hydrocarbon odour. Water was noted within one of the tanks potentially indicating the integrity of this tank has been maintained;
- Groundwater was encountered within the Secondary B mudstone aquifer. Measurable free product was only identified on one occasion during the site investigation and three subsequent monitoring rounds. Olfactory evidence of hydrocarbons was identified at some locations in the FTA, BFI 1 and Old BFI. Hydrocarbons reported were of generally low solubility and mobility;
- The vapour monitoring and assessment on the eastern boundary of BFI 1 has indicated that vapour is unlikely to lead to unacceptable concentrations of hydrocarbons in Rickeston Hall. Risks to neighbouring site users from vapours in groundwater were assessed as low;
- Risks to groundwater are assessed as moderate/low, risks to surface water assessed as moderate/low to low, and;
- Free product (light non-aqueous phase liquid) has occasionally been identified on groundwater at BFI 1, the Old BFI and at the FTA but monitoring over several years indicates that the thickness is low and unlikely to be present in sufficient quantity to be recoverable and the potential for significant lateral migration of free product is limited in the fractured mudstone bedrock.

3.7 Discussions with MOD Representatives

The following information relating to historical site activities was provided by site personnel during the Site reconnaissance. The Site does not currently hold any documentation relating to activities undertaken when the Site was operated as RAF Brawdy:

- There have been no warnings, prosecutions or enforcement actions served against the Site by any Government entity relating to pollution of soil, surface water or groundwater;
- There are no known areas of waste burning or tipping in addition to those identified in the Phase 1 LQA dated 2011;
- No remedial activities (soil and groundwater) have been undertaken at the Site;
- There was an anecdotal verbal suggestion of a historical ‘aviation spill’ at the site. No further corporate knowledge is available to confirm whether this occurred. Previous Phase 1 LQA report and subsequent Phase 2 LQA reporting does not reference make reference to an ‘aviation spill’;
- There are no pending environmental enforcement actions against the site, and;
- There are no notices, or claims for the cost of remedying any hazardous substance allegedly released at, or from, the Site.

Site History Summary

- The Site was established as a satellite station for the nearby RAF St David’s in 1944 before being occupied by the Fleet Air Arm of the Royal Navy in January 1946 and named HMS Goldcrest in 1952.

- In February 1974 the Royal Air Force returned with D Flight of 22 Squadron taking up residence. The RAF withdrew in the early 1990s and the Royal Signals Regiment took over the Site. The Site was named Cawdor Barracks.
- Surrounding land use typically comprised agricultural land use, however a US Naval Facility was set up off-site circa 1946 (but detailed to have been built in 1957). A NAVFAC BFI was established on site and connected to the off-site facility via a 2 km pipeline. The off-site facility is likely to have been decommissioned in 1997.
- Several historical sources of contamination have been identified within the airfield, technical area, and barracks area. These sources are largely historical bulk fuel storage tanks, areas of tipping and burning, a fire training area and asbestos contaminated soil.

4 Regulatory Records

Information held on public registers and by third parties[1] has been reviewed and a summary is presented in Table 4.1. Distances are taken from the site boundary to the centre point of the potential source. Comment is given regarding the potential for any such process / activity to affect the Site.

Type of Record [No. recorded within 500 m]	Details	Potential for Impact on Site?
Recorded pollution incidents to controlled waters [13]	13 pollution incidents recorded within 500 m radius of the Site. The nearest, a Category 2 – Significant incident, recorded 39 m west relating to the accidental spillage of crude sewage released to an unnamed receiving water in 1991. A further Category 2 incident was recorded on the same day 40 m to the north east relating to oil/diesel spillage. Numerous pollution incidents occurred within 500 m of the Site in 1996, the closest (67 m west) relating to the discharge of crude sewage and diesel from a leaking tank resulting in Category 3 – Minor incidents. No pollution incidents have been recorded post-1996. No pollution incidents have been recorded as being on site.	No potential
Discharge Consents [3]	Three discharge consents within 500 m radius of the Site. The closest discharge consent permits the release of final, treated effluent into land 197 m west of the Site (Park Hill Caravan Park). The remaining discharge consents relate to the release of storm overflow into unnamed tributaries of the River Solfach(192 m north) and Cwm Mawr Stream (273 m south). Ancala Water Services (Estates Ltd) hold two consents (Permit references BP0239501 and BP0269801) to discharge final treated effluent from Cawdor Barracks sewage treatment works into Brawdy Stream (approximately 800 m west of the Site). The Site holds an Ancala Water Services Consent to Discharge vehicle washdown effluent to the foul sewer (Reference AWSTE TE001XA038)(Appendix F).	Limited potential for impact.
BGS Recorded Mineral Sites [8]	There are three recorded mineral sites on site; Rickeston and Tre-Gynnydd (sand and gravels), and Croes-Wen (sandstone). There are a further five mineral sites recorded within 500 m of the Site and 12 located between 500 m and 1 km of the Site. None of these records are active. Brawdy Farm sandpit is located adjacent to the east of the Site. Although not an active extractive site, it is protected by a Mineral and Quarry Site Buffer which extends to within the southern extent of the airfield. Although mapped as present beneath the Site, superficial deposits have not been safeguarded by the Local Authority.	Potential for contamination depending on fill materials used (current plans would suggest these sites have all been infilled).

Table 4.1 – Public Registers Review

[1] Records reviewed included waste sites (current and historical landfill sites and licenced waste management facilities including waste transfer sites and waste treatment or disposal sites), hazardous substances (Control of Major Accident Hazards Sites, explosive sites, Notification of Installations Handling Hazardous Substances, Planning Hazardous Substance Consents, Planning Hazardous Substance Enforcements), Geological (BGS recorded Mineral sites) and Agency (Discharge consents, pollution incidents to controlled waters, substantiated pollution incident register, registered radioactive substances, Integrated Pollution Controls, Integrated Pollution Prevention and Control, Local Authority Pollution Prevention and Controls and Local Authority Integrated Pollution Prevention and Controls).

Summary

- Ancala Water Services (Estates Ltd) hold two consents (Permit reference BP0239501 and BP0269801) to discharge final treated effluent from Cawdor Barracks sewage treatment works into Brawdy Stream.
- The Site has not been attributable for any substantiated pollution incidents.
- There are three ceased BGS recorded mineral sites within the boundaries of the Site. Former Brawdy Farm sandpit located adjacent to the east of the Site is protected by a Mineral and Quarry Site Buffer which extends to within the southern extent of the airfield. Where present, superficial deposits beneath the Site are not safeguarded by the Local Authority.
- Current surrounding land uses have limited potential to generate contamination that would cause impact to the Site.
- Former mineral extraction sites on and within the vicinity of the Site are assumed to be infilled. There is potential for contamination and ground gas derived from the fill materials.

5 Site Reconnaissance

An inspection of the site area and neighbouring land use was undertaken on 22 and 23 November 2022 by Sweco. Permission was gained through the MoD to visit the Site. A summary of site activities observed during the site reconnaissance is provided below. Photographs taken during the site visit are included in Appendix G.

Topic	Description	Notes & Comments
Visual / Olfactory Evidence of Contamination	No evidence of visual or olfactory contamination was noted during the site walkover. Localised spillages of fuel occur at the operational BFI/ POL points but no substantial spillages have been reported. Oil/waste oil is stored within a secured hard stand compound. Diesel tank within this compound featured integral bunding and anti-collision barrier. Jerry cans were observed to be unbunded but the storage compound features sealed drainage which lowers the risk of associated with accidental spillages or leakage. Spill kits were present within the compound at the sites of the operational BFI and POL points.	The Site has an emergency spill response plan and spill response drills are undertaken annually. All waste oils were stored in a secured hardstand compound. Crash protection in place for integrally bunded diesel tank.
Explosive Ordnance and Radiological Materials	Evidence of spent dummy/blank ammunition recorded during the inspection of the ESA within the airfield. Evidence of spent live ammunition in the vicinity of the Clay Pigeon shooting ranges. Explosive ordnance is stored in the armoury with the Technical Area, with small quantities held at the main gate and guardroom. The Site has facilities to store radioactive material (sealed source only) within the armoury Building 242. Sources of radiation are sight unit small arms (SUSAT) rifle scopes containing tritium (gaseous tritium light sources, GTLS) and X-ray materials held at the barracks dentist. There is no corporate knowledge relating to known burning of radiological materials on Site. Minor breakages of equipment containing radiological materials are controlled locally and then disposed offsite via the Dstl. Radiation orders are held on site and the unit has a radiation offer (Technical Quartermaster).	No EA authorisation for storage of GTLS is required. Restricted access only.
Environmental Permit Regime	Site personnel have confirmed that that Site is not subject to processes or activities requiring an environmental permit	Limited potential for site activities to result in contamination. Good environmental management systems in practice. Storage of potentially contaminative materials in secured compounds or within storage buildings. Adequate provision of spills kits observed.
Site utilities	The site is occupied by 14th Signal Regiment. Gas, electricity, water, telecommunication utilities were observed on the Site. Sweco have been provided with a service drawing dated July 2010 (Appendix H). The plan indicates that services within the airfield include gas, low voltage electrical cable, and high voltage electrical cable.	Live utilities exist on site.

Topic	Description	Notes & Comments
Site Drainage and Waste Water	The site uses separate drainage systems for surface water and foul water. Sewerage produced is treated at the off-site sewage treatment works (part of Cawdor Barracks but not included within the current study area as outside the wire). A series of redundant OWIs were observed during the reconnaissance of the airfield. No obvious signs of sheen or odours were noted. Surface water drainage present in the airfield (adjacent to runways). Surface water from the current BFI/POL points is drained to three OWIs. OWIs are emptied and waste (including built up oils and greases) is disposed of by ANCALA under contract. A plan showing the locations of the OWIs is presented in Figure 2a Site Layout within the previous Phase 1 LQA Report (Entec 2011).	Ancala Water Services hold a consent to discharge treated effluent from Cawdor Barracks Sewage Treatment works, only.
Trade effluent	The Site currently holds an Ancala Water Services trade effluent discharge consent for vehicle washdown effluent (reference AWSTE TE001XA038. The effluent is discharged to the foul sewer.	The authorisation is aligned with the Environment Agency consent held by Ancala Water Services.
Storage Tanks (fuel, chemicals and storage of hazardous substances)	Ground maintenance store located in Building 239 (equipment, fuels and chemicals) (former explosives store). Bulk fuel installation within the Technical area (Building 666). Secured compound containing used oils, diesel, kerosene and lubricants. Wastes stored in jerry cans, IBCs and an integrally bunded diesel tank. No significant bunding of this compound, however wastes are stood on hardstand, there is crash protection around the diesel tank and spill kits located within the compound. Surface water falling within the compound drains to an interceptor. Operational POL- Tank 1 (capacity 19,775 litres), Tank 2 (27,422 litres). Operational BFI- underground storage tank with a capacity of 7,000 litres. Building 695 (guardroom locked store) has one waste oil tank (2,275 litres) and one waste coolant tank (1,500 litres).	The operational below ground POL tanks will be replaced by one above ground diesel storage tank. The capacity of the tank will be 25,000 litres and it will be double skin and positioned in a bunded area. Inspection and maintenance will be six monthly under VIVO contract.
Waste Management	Waste management at the Site is contacted to Veolia. There are numerous waste storage points (general waste and recyclable waste) across the Technical Area. Cawdor Barracks is registered as a Hazardous Waste Producer (Registration number CAA422). Waste oil was stored in drums in the oil storage compound within the technical area.	Environmental management of waste materials was observed to be good. Excessive waste material is avoided. Wastes are sorted and recycled where appropriate. Historically waste practices were not subjected to legislation. There is a former tipping area on the airfield and evidence suggests burning of waste may have occurred in this area. No evidence of this was recorded during the reconnaissance.
Asbestos Containing Materials (ACMs)	A number of buildings have been identified as containing Asbestos Containing Materials (ACMs). An asbestos register and management plan has been produced for the Site and is updated on an annual basis. The Register is held as a hard copy on site, only.	An asbestos register is maintained on site. The register is updated annually following inspection.

Topic	Description	Notes & Comments
	An asbestos contaminated area (buried at depth) has been identified immediately to southeast of the former hangar or shelter to the south of Hangar 18. This area forms a raised area of landscaped ground with slopes comprising mown grass. The elevated surface of this area was concrete and housed three metal storage containers. Warning signage was noted at this location during the site visit.	
PCBs, electrical equipment and transformers	A number of electrical substations are present within barracks area. The previous Phase 1 LQA states that during the site upgrades prior to the arrival of 14 Signals Regiment, the existing high voltage (HV) network was modified. The project removed and disposed of the transformers and the oils that they contained. No waste transfer notes are held and no further information was provided as part of the current site reconnaissance.	Potential for limited hydrocarbon/ PCB contamination on site associated with former use but likely to be very localised.
Incinerators / Burning Grounds	Site personnel confirmed that no burning of waste is undertaken on the site. No evidence of recent burning was recorded during the site walkover, including in the former tip/burning area. Square brick and concrete structure evident at the location of the Former Fire Training Area. This structure featured a gravel fill (including waste materials such as concrete, metal, glass, and bituminous materials). Some relict charred wood identified but no evidence of widespread burning.	Potential for historic burning activities in the airfield. No evidence of burning recorded in the former tip/burning area during the walkover.
Landscaped Areas	A linear landscape feature (vegetated mound) was observed running north-south at the southern extent of the airfield. A landscaped area exists to the southeast of a former hangar/shelter to the south of hangar 18. This forms the asbestos contaminated area. Additionally, there is a landscaped area around the perimeter of an area of carparking in the vicinity of the entrance into the airfield, sports pitches in the technical and Barracks areas, and an assault course in the airfield. Grassed areas around the runways are used for farmers (under licence) for grass cutting (production of silage). Localised areas of infilling noted within the airfield. Made ground is likely to exist in these areas.	Made ground of unknown origin. Potential to contain PAH, ACM metals.

Table 5.1 - Summary of Site Reconnaissance

Summary

- Review of available documentation, authorisations and consents indicated no breaches in regulatory compliance.
- The site was operational well managed facility.
- Storage of chemicals and ordnance were observed to be generally appropriate with chemicals and ordnance well documented. All COSHH storage was located on hardstanding.

- Visual and olfactory observations did not reveal any evidence for the presence of widespread or significant contamination arising from current site practices.

6 Environmental Setting

An evaluation of the environmental setting of the Site and surroundings has been determined by Sweco from a study of the relevant geological map BGS 1:50,000 Sheet 209 (St Davids), BGS digital geological map data (DigiMapGB-50) and environmental data supplied in the Landmark report (ref. 305022956_1_1 see Appendix B).

6.1 Geology and Hydrogeology

Based on available data taken from the BGS and the previous Phase 2 LQA undertaken by Amec Environment & Infrastructure Limited between July and August 2011 which largely included exploratory locations in the airfield and technical area. The following geological conditions and groundwater sensitivities have been determined:

Geology	Aquifer Status & Groundwater Abstractions	Potential for Baseflow	Sensitivity Assessment
Made Ground	N/A	**Moderate**– Due to the topography of the site, there is potential for made ground to be in hydraulic continuity with the unnamed streams adjacent to the boundaries of the Site.	**N/A**
Superficial geology Largely absent across the site. Localised superficial deposits: Glaciofluvial Deposits (Devensian)/ Glacial Till (Mid Pleistocene)	Glaciofluvial Deposits: Secondary A Aquifer Glacial Till: Secondary Undifferentiated. Site not located in a source protection zone. No groundwater abstractions within 1 km of the Site	**Moderate-** The Glaciofluvial deposits are classified as a Secondary A Aquifer. A **Low** potential for baseflow is anticipated for the Glacial Till as this stratum is considered to be of relatively low permeability.	**Low-Moderate / Low** based upon the aquifer designations and absence of groundwater abstraction licences held within 1 km of the Site.
Solid geology Central area– Lingula Flags Formation (Cambrian): sandstone and mudstone Northern set extent- Triffleton Group (Ordovician): sandstone Southern extent- Ramsey Sound Group (Ediacaran): Tuff Two unnamed igneous intrusions (central)	Bedrock is classified as a Secondary B aquifer Site not located in a source protection zone No groundwater abstractions within 1 km of the site	**High** – The mudstone bedrock was recorded relatively close to the existing ground level during previous intrusive investigations at the Site (from depths of 0.4 mbgl in the airfield to 8.2 bmgl mbgl in the Technical Area). As the Site forms a natural plateau, groundwater flow is shown to be radial from the centre of the Site. There are a number of springs on the western and eastern site boundaries that feed unnamed surface water courses.	**Low** based upon the designation of both the overlying superficial deposits and the solid geology and absence of groundwater abstraction licences held within 1 km of the Site.

Table 6.1 - Geology & Hydrogeology

Ground conditions were reported by site area within the Amec 2012 Phase 2 LQA, and are summarised as follows:

Airfield (excluding tip area)

Surface cover largely comprised long grass or brambles over a topsoil with frequent rootlets. Localised hardstand (macadam, gravel sub-base of concrete and bituminous materials) was reported at one location. Evidence of spent ammunitions cartridges was recorded within the ESA.

Made ground was encountered in the majority of exploratory hole locations in the airfield and was typically recorded between 0.2 mbgl and 1.2 mbgl and to a maximum depth of 2.6 mbgl. Made ground comprised sandy gravelly clay, clayey gravelly sand and silt with occasional cobble content of brick, concrete, mudstone, sandstone and igneous rock. Anthropogenic gravel constituents included brick, concrete, metal fragments, clinker, bitumen, tile, and ceramics. Thicker deposits of made ground were recorded in the old BFI and BFI 2 (maximum depth of 2.6 mbgl) and NAVFAC BFI (potential foundations up to 2 mbgl). Reinforced concrete was recorded between 0.4 mbgl and 0.8 mbgl in the NAVFAC BFI.

Within the airfield, superficial deposits were recorded as sand and gravel drift, firm gravelly clay with cobbles of mudstone identified as Glacial Till and weathered mudstone. These superficial deposits were encountered between the existing ground level and 3.3 mbgl and had a thickness ranging between 0.15 m and 3.2 m. Mudstone bedrock was typically recorded from 0.4 mbgl to 3.3 mbgl to a maximum unproven depth of 15 mbgl.

Former Tip Area

With the former tip area, surface cover comprised a gravel of pulverised rubble with a depth of between 0.3 mbgl and 0.55 mbgl. Vegetated areas were recorded as long grass over gravelly sand or clayey topsoil.

General made ground in the former tip area had a general thickness of between 0.5 m and 3.6 m and comprised silty sandy gravel, gravelly sand and gravelly clay. Gravels included concrete, brick, macadam, mudstone, and sandstone. Exploratory logs recorded low to moderate cobble and boulder content of concrete, brick, and occasional re-bar, plastic, fibre glass, redundant cabling, various metals, ceramics, glass, wood and macadam. No demolished structures were observed.

Natural strata at the location of the former tip area was recorded as sandy gravelly clays, gravelly sands and gravelly clayey silt (weathered mudstone) with a thickness of between 0.2 m and 2.6 m and a maximum depth of 4.3 mbgl. Mudstone bedrock was encountered at depths of 2.2 mbgl, 3.6 mbgl and 4.3 mbgl with a maximum unproven depth of 10 mbgl.

Technical Area

Within the main site area the majority of surface cover comprised concrete hardstanding. Exploratory locations were largely positioned over grass covered soft standing, although two locations featured macadam surface cover with a sub-base of brick fragments and concrete gravel.

Within the technical area, made ground was encountered in the majority of exploratory holes and was typically recorded to depths of between 0.1 mbgl and 1.6 mbgl with made ground occasional identified to 2.8 mbgl. Made ground largely comprised gravelly clay, silty gravelly sand and gravelly silt. Gravel (including a variable cobble content) consisted of mudstone, sandstone, brick, wood, plastic, rare ceramics, glass, clinker, metal fragments, bitumen, tile, and concrete.

Natural strata within the Technical Area comprised sand and gravel drift, Glacial Till consisting of firm gravelly clays with cobble of mudstone, and silty gravel or gravelly clay identified as weathered mudstone. The superficial deposits were encountered generally between the existing ground level and 6 mbgl and ranged in thickness between 0.2 m and 5 m. Drift deposits in the western most side of the Technical Area (Motor Transport (MT) area) comprised Glacial Till at 0.7 mbgl underlain by sandy gravel to a depth of 8.2 mbgl which ties into BGS geological mapping. Mudstone and sandstone bedrock was encountered from 0.4 mbgl to 8.2 mbgl.

NAVFAC pipeline

Surface cover comprised grass. Made ground was recorded to depths of between 0.7 mbgl and 1 mbgl in five exploratory holes along the NAVFAC pipeline route. This material was consistent with the surrounding natural strata so was previously considered to be reworked natural as no anthropogenic constituents were recorded.

Drift deposits were encountered at three locations across the pipeline and comprised variable sands, gravels and clays.

Groundwater

The previous Phase 2 LQA encountered groundwater within the drift deposits in the Technical Area and north of the Technical Area. Drift deposits were recorded to be dry within the airfield. Groundwater was present within all monitoring standpipes installed within the mudstone bedrock.

The Technical area slopes downhill in a south westerly direction. Perched groundwater within perched deposits range between 109.43 m AOD and 92.2 m AOD and the indicative flow direction is considered to be influenced locally by topography and is generally in a southerly direction.

Groundwater levels in the mudstone bedrock were consistent over the monitoring rounds and levels ranged between 106.44 m AOD and 92.65 m AOD across the site, with an indicative general groundwater flow direction to the east.

Groundwater flow across the Technical Area trends in a south easterly direction.

The 2015 Amec Foster Wheeler targeted groundwater and vapour assessment and recorded groundwater strikes at between 5 mbgl and 6.5 mbgl, with groundwater rising to between 4.2 mbgl and 5.3 mbgl after 20 minutes.

Groundwater levels recorded during the monitoring exercise following the GI were consistent with the previous site investigations and ranged between 97.89 m AOD and 105.45 m AOD.

Ground Hazards

The Site is not located in an area requiring a mining search (information obtained from the Coal Authority online Interactive Map[2]).

The Envirocheck Report identified 'no hazard' across the Site in respect of compressible and ground dissolution. Risks associated with landslide, running sand, shrinking or swelling clay, and collapsible ground were identified as 'very low' with areas of the site featuring 'No hazard'.

The Site is in an area of elevated radon potential with 10-30% of properties above the action level for which installation of basic radon protection measures is recommended in dwellings across parts of the Site.

6.2 Hydrology

Table 6.2 provides a summary of surface water features in the vicinity of the Site.

Water courses Distance / Direction from site	River Quality	Surface Water Abstractions	Potential for Baseflow	Potential to Receive Runoff	Sensitivity Assessment
The Site is constructed on a topographical high within the local area. A number of springs are located around the periphery of the Site, which feed unnamed streams flowing away from each of the site boundaries.	An unnamed stream forms a tributary of the Brandy Brook at a distance of 1.8 km southeast of the Site. The Water Framework Directive River Basin Management Plan records the current chemical status of the Brandy Brook as good and the ecological potential as moderate (overall status moderate). Two springs adjacent to the western site boundary form surface water courses that converge and eventually discharge into St Brides Bay approximately 4 km southwest of the Site. These unnamed	2 within 1 km, closest 428 m to the west	**High** – The surface water courses are likely to be in hydraulic continuity with groundwater beneath the Site. Groundwater was observed to be high during previous ground investigations and the groundwater flow was assessed to be flowing outwards from the centre of the Site owing to its position on an elevated plateau.	**Low-** Predominance of soft surface cover in the airfield will promote water infiltration. Surface water within the technical area likely to be captured within existing site drainage system or will infiltrate through areas of soft landscaping.	**High-** Springs and unnamed surface water steams present in close proximity to the boundaries of the Site. Two surface water abstractions within 1 km of the Site have the potential to be in hydraulic continuity with groundwater beneath the Site.

[2] https://mapapps2.bgs.ac.uk/coalauthority/home.html

	watercourses are not assessed under the Water Framework Directive.				

Table 6.2 – Hydrology

6.3 Flood Risk

Table 6.3 provides a review of data from the Envirocheck Report and the Natural Resources Wales (NRW) Flood Map for Planning and the NRW Flood Risk Assessment Map.

Flood Risk Zone	Flood Defence/ Alleviations	Flood Risk Assessment	Control of Run off	Sensitivity Assessment
The greater majority of the Site lies within Flood Zone 1, indicating a very low risk of flooding from rivers (including small watercourses) of 0.1% annual probability (1 in 1000 year event). There are smaller areas that fall within Flood Zone 2 (0.1% to 1% annual probability), and flood Zone 3 (>1% annual probability). These areas are associated with existing water courses and field drains.	None	None required	Incidental rainfall / drainage from the site will be directed to the ground. The surrounding topography is not steep. Surface water falling on the runways appears to drain towards the north-eastern end of the runway trending northeast-southwest.	**Low**
Areas of the Site are indicated to have potential for groundwater flooding. There is potential for groundwater flooding to occur to property below ground level in the southern area of the airfield and the central area of the Technical Area. The western extent of the Technical Area and parts of the southern area and north-eastern area of the airfield have limited potential for groundwater flooding to occur. There are small areas within the Technical Area and the southern and north-eastern area of the airfield that may be at risk of groundwater flooding at the surface.	None	None required	Incidental rainfall / drainage from the site will be directed to the ground. The surrounding topography is not steep. Surface water falling on the runways appears to drain towards the north-eastern end of the runway trending northeast-southwest.	**Low**

Table 6.3 – Flood Risk

The Sweco site reconnaissance was undertaken during a period of very wet weather. Heavy rainfall occurred during the reconnaissance and likely during the preceding several days. Sweco observed areas of ground adjacent to the runways to be saturated with water and surface water was seen to be collecting at the northern end of the longest runway. Undeveloped ground to the north appeared to be saturated, with surface water pooling evident.

6.4 Ecology & Sensitive Land Use

Table 6.4 provides a summary of ecology and sensitive land uses based on a review of designated habitats or sensitive ecological features recorded within 1 km of the Site.

Ecological Site / Sensitive Land Use	Sensitivity Assessment

Ecological Receptors	**High** The Site is located approximately 650 m northeast of the St David's Peninsula Coast Site of Special Scientific Interest (SSSI), the Ramsey and St David's Peninsula Coast Special Protection Area (SPA) and St David's Special Area of Conservation (SAC). The Site is approximately 750 m northeast of the Pembrokeshire Marine SAC and West Wales Marine Protected Area (MPA)/SAC. The Site is located within the Pembrokeshire Coast National Park. The Site can potentially support a number of protected species of flora and fauna. A population of skylarks are present on site which has been considered the largest in Wales. National Trust manage wild ponies that are left to graze on the undeveloped western areas of the Site.

Table 6.4 – Ecology & Sensitive Land Use

6.5 Archaeological Sensitivity

Table 6.5 provides a review of data from the Historic Wales portal for historic environment information. The assessment of sensitivity in Table 6.5 is specifically with respect to impacts from potential contamination at the Site.

Archaeological Site	Sensitivity Assessment
Brawdy Airfield is included in the National Monuments Record of Wales. The National Monuments Record of Wales includes the following within the Site: •De Havilland Sea Vampire (Air crash site) • Medieval fishpond site- Rickeston Manor (in the location of the former Old OWI (1 of 3). Post-medieval agricultural fields associated with the farm Ty llwyd.	**Moderate–** Moderate potential for damage to archaeologically significant artefacts on the development site. The presence of artifacts on site cannot be discounted.
The Welsh Archaeological Trust lists a number of features located within the Site. Former location of standing stones: • Parc Y Garreg Wen (bronze age standing stone) • Parc Carreg (bronze age standing stone) • Stone (unnamed) Sites of post-Medieval and Medieval buildings: • Rickeston Mediaeval Manor House • Broadway (post-medieval cottage) • Mutton Hill (post-medieval mansion) • Rhwle (Post-medieval cottage) • Cross Wen (post-medieval cottage) • Court Fach medieval settlement/post-medieval settlement • Clawdd Bwi (Post-Medieval cottage)	**Moderate–** Moderate potential for damage to archaeologically significant artefacts on the development site. The presence of artifacts on site cannot be discounted.

Table 6.5 – Archaeological Setting

Summary

- In respect of potential impact from possible sources of contamination (if proven to be present), the Site is considered to be located in a ***High*** sensitivity setting with respect to surface water and ***Low-Moderate*** sensitivity setting with respect to groundwater.

- The Site is in ***Low*** sensitivity setting with respect to flooding.
- The Site is in a ***High*** sensitivity area with respect to potential impacts on ecological receptors from contamination.
- The Site is in a ***Moderate*** sensitivity areas with respect to potential impacts on archaeological receptors.

7 Environmental Risk Assessment

7.1 Introduction

Risk assessment is a process by which the actual or potential risks posed by identified hazards to specific receptors is estimated. In the context of this study, hazards relate to sources, or potential sources of contamination capable of causing harm. Receptors are the entity, which may be at risk of adverse effects from the hazard and include human health, surface waters, groundwater, ecological systems, buildings and services. In order for a hazard to present a risk to a receptor they must be linked by an exposure pathway.

This source-pathway-receptor model is considered best practice methodology to evaluate environmental risks arising from potential land contamination, according to DEFRA[3] and Environment Agency[4] guidance documentation (adopted by Natural Resources Wales in February 2021). Details of the methodology adopted for determining the site specific risks is presented in Appendix I.

In accordance with the adopted methodology, the classification terms of potential risk are used to reflect both the probability of an event occurring and the magnitude of possible effects. The definitions of 'potential consequence' and 'likelihood' are also given in Appendix I.

7.2 Conceptual Site Model

A conceptual 'source-pathway-receptor' model has been developed for the Site based upon evaluation of information described in the preceding chapters. The conceptual model is presented diagrammatically in Drawings 65200861-CAWDOR_LQ_Stg1_LQA_03 and 65201348-CAWDOR_LQ_Stg1_LQA_04 and described below. It has been generated on the proposed new development on site, which is considered as a continuation of the current designation of commercial land use.

7.2.1 Potential Contaminant Sources

Based on the information obtained in this Phase 1 LQA, the following potential contaminant sources have been identified:

Potential Source	Associated Feature	Potential Contaminants
On Site		
Source 1- Old BFI, BFI 1, BFI 2 and NAVFAC BFI (airfield)	*Old BFI* Former bulk fuel storage in six tanks with unspecified capacities. Installation decommissioned in 1993. *BFI 1* Former bulk fuel storage across the Site in ten 54,500 litre above ground tanks and one circular tank (772,000 litres). Tanks removed. *BFI 2* Former bulk fuel storage in two semi-buried tanks with a combined volume of 1.5 million litres. One above ground Plant Dieso tank (8,000 litre), one Slops tank (5,5000 litres) Facility decommissioned in 1997 *NAVFAC BFI* Former bulk fuel storage in six underground tanks (330,000 litre combined capacity). Facility decommissioned in 1997	Hydrocarbons Likely aviation turbine fuel (AVTUR including AVTUR F34 FSii) but may have stored aviation gasoline (AVGAS) containing more volatile hydrocarbons and tetraethyl lead/ tetramethyl lead

[3] DEFRA Guidelines for Environmental Risk Assessment and Management, Revised Departmental Guidance, November 2011.

[4] EA, Land Contamination Risk Management (LCRM), How to Manage the Risks from Land Contamination, October 2020

Potential Source	Associated Feature	Potential Contaminants
Source 2- Former FTA	Brick and concrete 'tank-like' structure. Some associated infrastructure present on site.	Hydrocarbons (fuels and oils), PAHs and perfluoroalkyl and polyfluoroalkyl substances (PFASs)

Potential Source	Associated Feature	Potential Contaminants
On Site		
Source 3- Former Fuel Bowser parking	Eleven fuel bowsers historically parked in this area with a combined capacity of 115,000 litres.	Hydrocarbons AVTUR F34 FSii AVGAS DIESO MT CIVGAS F50
Source 4- Former tip/burning area	Tipping of various inert wastes. Potential burning of wastes may have occurred in this area.	Metals, hydrocarbons, solvents, asbestos, PCBs
Source 5- NAVFAC BFI pipeline	Former fuel pipeline connecting onsite NAVFAC BFI with off-site NAVFAC facility. Potential for 15,700 litres of diesel oil to be retained within the pipeline.	Hydrocarbons Diesel oil
Source 6- Current BFI/ POL Point	Bulk fuel storage and storage of paints, oils and lubricants.	Hydrocarbons Diesel oil solvents
Source 7- Historical POL points and former above and below ground fuel storage tanks, and small former fire training area located within the technical area/barracks area	*Historical POL points* (two Historic NAVFAC (US) POL points, Former building 27/28 POL point, Former POL Point south of Building 5). *Former above and below ground storage tanks* Storage of fuel, including at the former cinema, former engine (ardour house), site boiler house	Hydrocarbons
Source 8- Known asbestos contaminated area	Areas of known asbestos contamination.	Asbestos
Source 9- Former electricity distribution substations	Former electricity substations within the Technical Area/Barracks and airfield.	Hydrocarbons PCBs
Source 10- Redundant OWIs	Former OWIs in the airfield.	Hydrocarbons Diesel oil
Source 11- Aircraft parking, airfield use and crashes	Historical use of the airfield and associated infrastructure.	Hydrocarbons Aviation fuel Solvents
Source 12- Infilled quarries/gravel pits, linear mound at the end of the runway trending SSW to NNE.	Former quarries and pits within the airfield	Metals, hydrocarbons, asbestos and ground gas
Off Site		

Potential Source	Associated Feature	Potential Contaminants
Sourced 13- Former Brawdy Farm sand pit	Former sand pit.	Ground gases

Table.1 – Potential Contaminant Sources

The areas of potential contamination are shown on Drawing 65200861-CAWDOR_LQ_Stg1_LQA_02.

A number of current explosive and ammunition stores are present on site. Since these materials are stored and managed appropriately, they are not considered to present a source that requires further consideration in this risk assessment.

A number of COSHH stores are present on site. Since these materials are stored in small quantities and well managed appropriately, they are not considered to present a source that requires further consideration in this risk assessment.

Given the size and complexity of the Site, a number of individual sources have been combined (e.g. former BFI within the airfield, and current and former above and below ground fuel storage tanks). In these cases, the likelihood and consequence of exposure are considered to be generally the same resulting in the same potential risks from all sources grouped together.

7.2.2 Potential Pathways

The principal exposure pathways pertinent to the Site are described below:

- diffusion through drinking water pipes;
- direct contact with or ingestion of contaminated soil, soil derived dust or groundwater;
- inhalation of potentially contaminated soil derived dust;
- inhalation of soil and groundwater vapours and ground gases indoors and outdoors;
- inhalation of asbestos fibres;
- leaching and vertical migration of contaminants from the unsaturated made ground to the underlying glaciofluvial deposits (Secondar A Aquifer) and solid geology of the Lingula Flags, Triffleton Group Sandstone and Ramsey Sound Group (Secondary B Aquifer);
- migration of NAPL or contaminated groundwater;
- migration via site drainage;
- migration via surface run-off;
- direct contact of buildings and services with potentially contaminated soil, and;
- build up of potentially hazardous ground gas in confined spaces and explosion;

7.2.3 Potential Receptors

Receptors may include humans, animal or plant population, or natural or economic resources within the range of the contaminant source which are connected to the source by a known pathway, as discussed below.

Receptor	Description
Onsite personnel	Operational staff
Onsite residents (with gardens)	Married quarters used by site personnel and their families.

Onsite (and offsite) farmers	Farmers access the airfield to cut the grass to produce silage for livestock. This silage is stored on the airfield. The Site is in a predominantly agricultural setting and therefore surrounding land use can include agricultural fields.
Offsite commercial workers	Workers at the Brawdy Business Park.
Offsite residents	Residents living at the adjacent Rickeston Hall
Offsite amenity users	Offsite users of the adjacent Newgale Lodge holiday lets and Park Hall Village camp site.
Glaciofluvial Deposits: Secondary A Aquifer **Lingula Flags, Triffleton Group Sandstone and Ramsey Sound Group solid geology: Secondary B Aquifer**	Groundwater within the glaciofluvial deposits and solid geology which underlies the Site.
Surface Water (unamed surface water courses adjacent to the Site)	A series of unnamed water courses are located within close proximity to the boundaries of the Site.
On site flora and fauna	Protected species have been identified on the Site.
Buildings and buried services	In addition, sensitive heritage assets have been identified which have the potential to be impacted by contamination.

Table 7.2 – Receptor Description

Construction workers during redevelopment and future maintenance activities have not been considered as a receptor in this risk assessment. It is assumed that any redevelopment works undertaken on the Site will be subject to appropriate risk assessments and use of PPE, therefore potential risks will be mitigated.

7.3 Risk Estimation

The most significant potential environmental risks identified (classified as moderate/low or greater) based on historical use and current site conditions are summarised in Table 7.3. A full assessment of all environmental risk scenarios is presented in Appendix I.

Potential Source	Receptors (Potential) / Consequence of hazard-receptor linkage	Pathways (Potential) / Likelihood of hazard-receptor linkage	Risk Level
Source 1 **Old BFI and former BFI 1, BFI 2, and NAVFAC BFI** **Source 2 Former FTA**	Humans (onsite personnel) – **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors **- Low likelihood**	**Moderate / Low**
	Humans (Onsite farmers)-**Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors **- Low likelihood**	**Moderate / Low**
	Humans (offsite residents) - **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors **- Low likelihood**	**Moderate / Low**
	Humans (off site amenity users) - **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors. Inhalation of vapours migrating in groundwater and accumulating indoors **- Low likelihood**	**Moderate / Low**
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – **Medium**	Leaching / migration via groundwater - **Likely**	**Moderate**

Potential Source	Receptors (Potential) / Consequence of hazard-receptor linkage	Pathways (Potential) / Likelihood of hazard-receptor linkage	Risk Level
	Surface water (Unnamed surface water streams) - **Medium**	Via site drainage and baseflow **– Likely**	**Moderate**
	Flora and fauna- **Medium**	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians- **Low likelihood**	**Moderate / Low**
Source 3 **Former fuel bowser parking**	Humans (onsite personnel) – **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors **- Low likelihood**	**Moderate / Low**
	Humans (Onsite farmers)-**Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors **- Low likelihood**	**Moderate / Low**
	Humans (offsite residents)- **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors **- Low likelihood**	**Moderate / Low**
	Humans (offsite amenity users)- **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors **- Low likelihood**	**Moderate / Low**
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – **Medium**	Leaching / migration via groundwater - **Low likelihood**	**Moderate / Low**
	Surface water (Unnamed surface water streams) - **Medium**	Via site drainage and baseflow **– Low likelihood**	**Moderate / Low**
	Flora and fauna- **Medium**	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians- **Low likelihood**	**Moderate / Low**
Source 4 **Former tip/burning area**	Humans (Onsite personnel)-**Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors **- Low likelihood**	**Moderate / Low**
	Humans (Onsite farmers)- **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors **- Low likelihood**	**Moderate / Low**
	Humans (Offsite amenity users)- **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors	**Moderate / Low**
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)- **Medium**	Leaching/ migration via groundwater-**Low likelihood**	**Moderate / Low**
	Surface water (Unnamed surface water streams) - **Medium**	Via site drainage and baseflow- **Low likelihood**	**Moderate / Low**

Potential Source	Receptors (Potential) / Consequence of hazard-receptor linkage	Pathways (Potential) / Likelihood of hazard-receptor linkage	Risk Level
	Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians- **Low likelihood**	**Moderate / Low**
Source 5 **NAVFAC BFI pipeline**	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – **Medium**	Leaching / migration via groundwater- **Low likelihood**	**Moderate / Low**
	Surface water (Unnamed surface water streams) - **Medium**	Via site drainage and baseflow **– Low likelihood**	**Moderate / Low**
Source 6 **Current BFI/ POL Point (technical area)**	Humans (Onsite personnel)-**Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors **- Low likelihood**	**Moderate / Low**
	Humans (offsite residents)- **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors **- Low likelihood**	**Moderate / Low**
	Humans (Offsite amenity users)- **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors	**Moderate / Low**
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – **Medium**	Leaching / migration via groundwater - **Low likelihood**	**Moderate / Low**
	Surface water (Unnamed surface water streams) - **Medium**	Via site drainage and baseflow **– Low likelihood**	**Moderate / Low**
Source 7 **Historical POL Points and former above and below ground tanks, and small former fire training area** **(technical area/ barracks)**	Humans (onsite personnel) – **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors **- Low likelihood**	**Moderate / Low**
	Humans (onsite residents with gardens)- **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors **- Low likelihood**	**Moderate / Low**
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – **Medium**	Leaching / migration via groundwater - **Low likelihood**	**Moderate / Low**
	Surface water (Unnamed surface water streams) - **Medium**	Via site drainage and baseflow **– Low likelihood**	**Moderate / Low**
Source 10 **Redundant OWIs**	Humans (onsite personnel) – **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors **- Low likelihood**	**Moderate / Low**
	Humans (offsite residents)- **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors **- Low likelihood**	**Moderate / Low**

Potential Source	Receptors (Potential) / Consequence of hazard-receptor linkage	Pathways (Potential) / Likelihood of hazard-receptor linkage	Risk Level
	Humans (Offsite amenity users)- **Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and through accumulation indoors **- Low likelihood**	**Moderate / Low**
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – **Medium**	Leaching / migration via groundwater - **Low likelihood**	**Moderate / Low**
	Surface water (Unnamed surface water streams) - **Medium**	Via site drainage and baseflow **– Low likelihood**	**Moderate / Low**
	Flora and Fauna- **Medium**	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians- **Low likelihood**	**Moderate / Low**
Source 11 **Aircraft parking, airfield use and crashes**	Human (onsite personnel)-**Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors **- Low likelihood**	**Moderate / Low**
	Humans (onsite farmers)-**Medium**	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors **- Low likelihood**	**Moderate / Low**
	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)-**Medium**	Leaching / migration via groundwater - **Low likelihood**	**Moderate / Low**
	Surface water (Unnamed surface water streams)-**Medium**	Via site drainage and baseflow **– Low likelihood**	**Moderate / Low**
Source 12 **Infilled quarries/ gravel pits**	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology) – **Medium**	Leaching / migration via groundwater - **Low likelihood**	**Moderate / Low**
	Surface water (Unnamed surface water streams) - **Medium**	Via site drainage and baseflow **– Low likelihood**	**Moderate / Low**

Table 7.3 – Summary of Risk Assessment – Current and continuation of Commercial Land Use

8 Overall Land Quality & Suitability for Use

The overall land quality assessment based on the available information is summarised below.

Based upon information obtained and reviewed as part of this LQA, it is considered that widespread significant contamination across the Site is ***Unlikely*** to have occurred as a result of historical land use activities undertaken across the wider site area. Localised sources of potential soil and groundwater contamination have been identified to be present which include former bulk fuel installations, former fire training areas, former fuel storage tanks, former burning area and tip, ESA, infilled quarries, a former fuel bowser parking area, and an asbestos contaminated area. Additionally, areas of made ground (including mounds potentially containing demolition materials) are present across the Site. Contaminants of concern include metals, hydrocarbons, inorganic and organic compounds, PCBs, explosive residues, PFASs, and asbestos containing materials (ACM)s.

In view of the above, the risk to current and future site users (assuming continuation of the current commercial land use) and other identified off-site human health receptors under current site conditions from potential ground contamination in respect of all of the identified potential sources of contamination has been assessed as ***moderate/low*** at the highest.

The risk to groundwater and surface water under current and future site conditions (assuming continuation of the current commercial land use) in respect of all the identified potential sources of contamination has been assessed as ***moderate*** at the highest. This reflects the previous targeted groundwater investigation and risk assessment undertaken at the site.

For any redevelopment scenario, disturbance of shallow soils is likely to occur. Soil disturbance may increase risks to human health from exposure to potential contaminated made ground material, including possible hydrocarbons, metals, explosive residues, paints, lubricants and oils, radiological materials and ACMs at the Site. During demolition and construction phases of any redevelopment control measures such as undertaking and adhering to site specific risk assessments and method statements and wearing appropriate PPE will need to be implemented to mitigate the risk to site workers.

Whilst not a contaminated land consideration, part of the southern area of the airfield falls within a Mineral and Quarry Sites Buffer (Brawdy Farm sandpit) which may place restrictions on development within this area and further consultation with the Local Planning Authority is recommended.

9 References

Historical Reports:

1. Entec. February 2011. Cawdor Barracks, Pembrokeshire. Land Quality Assessment. Phase 1: Desk Study Report.
2. Amec. February 2012. Cawdor Barracks, Pembrokeshire. Phase 2: Intrusive Survey Report.
3. Amec Foster Wheeler. July 2015. Cawdor Barracks- Targeted Groundwater and Vapour Assessment LQA Report.

Reference Text:

Guidance documents

- CIRIA. 2001. C552 Contaminated Land Risk Assessment, A Guide to Good Practice.
- Environment Agency. October 2020. Land contamination risk management (LCRM)
- DEFRA. April 2012. Contaminated Land Environmental Protection Act 1990, Part IIA, Contaminated Land Statutory Guidance

Site Setting Information:

- BGS Onshore Geoindex (https://mapapps2.bgs.ac.uk/geoindex/home/html) Accessed January 2023
- BGS Map Sheet 209- St David's
- MAGIC Mapping (https://magic.defra.gov.uk/magicmap.aspx) Accessed January 2023
- Lle A Geo-Portal for Wales (https://lle.gov.wales/home) Accessed January 2023
- Natural Resources Wales. Flood Map for Planning (https://flood-map-for-planning.naturalresources.wales/). Accessed January 2023.
- Natural Resources Wales. Flood Risk Management Map (https://naturalresources.wales/flooding/check-your-flood-risk-on-a-map-flood-risk-assessment-wales-map/?lang=en). Accessed January 2023.
- Welsh Government Historic Aerial Photography Unit (http://aerialphotos.wales.gov.uk/). Accessed January 2023.
- PCC, 2013. Pembrokeshire County Council Local Development Plan

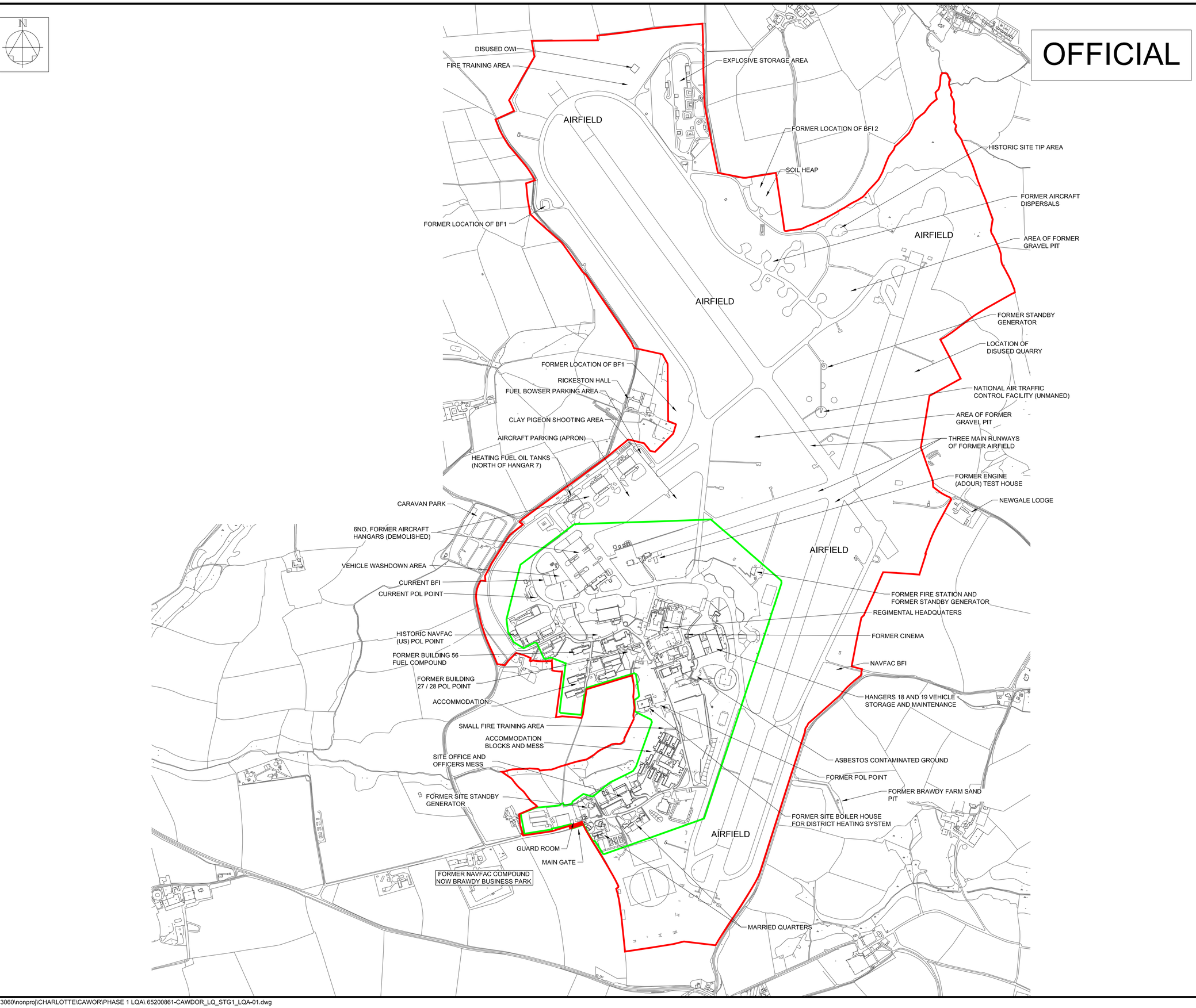
Site Information Sources:

- Major LG Tosh (Quartermaster 14 Signal Regiment), Sgt J Godden
- Summary of UXO Estate Intelligence. July 2019.
- Dstl. July 2020. Radiological Records Search: Cawdor Barracks, Pembrokeshire.

Historical OS Maps and Environmental Information:

- Landmark Envirocheck Report (Reference 305022956_1_1)

Drawings



OFFICIAL

Notes

LEGEND

- CAWDOR BARRACKS SITE
- TECHNICAL AREA AND BARRACKS

Rev.	Date	Amendment Details	Orig	Chk'd	App'd

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Drawing Status

PHASE 1 LQA

Project Title

DARC - CAWDOR BARRACKS

Drawing Title

SITE LAYOUT PLAN

Scale	Originator	Drawn	Checked	Approved
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Original Size	Date	Date	Date	Date
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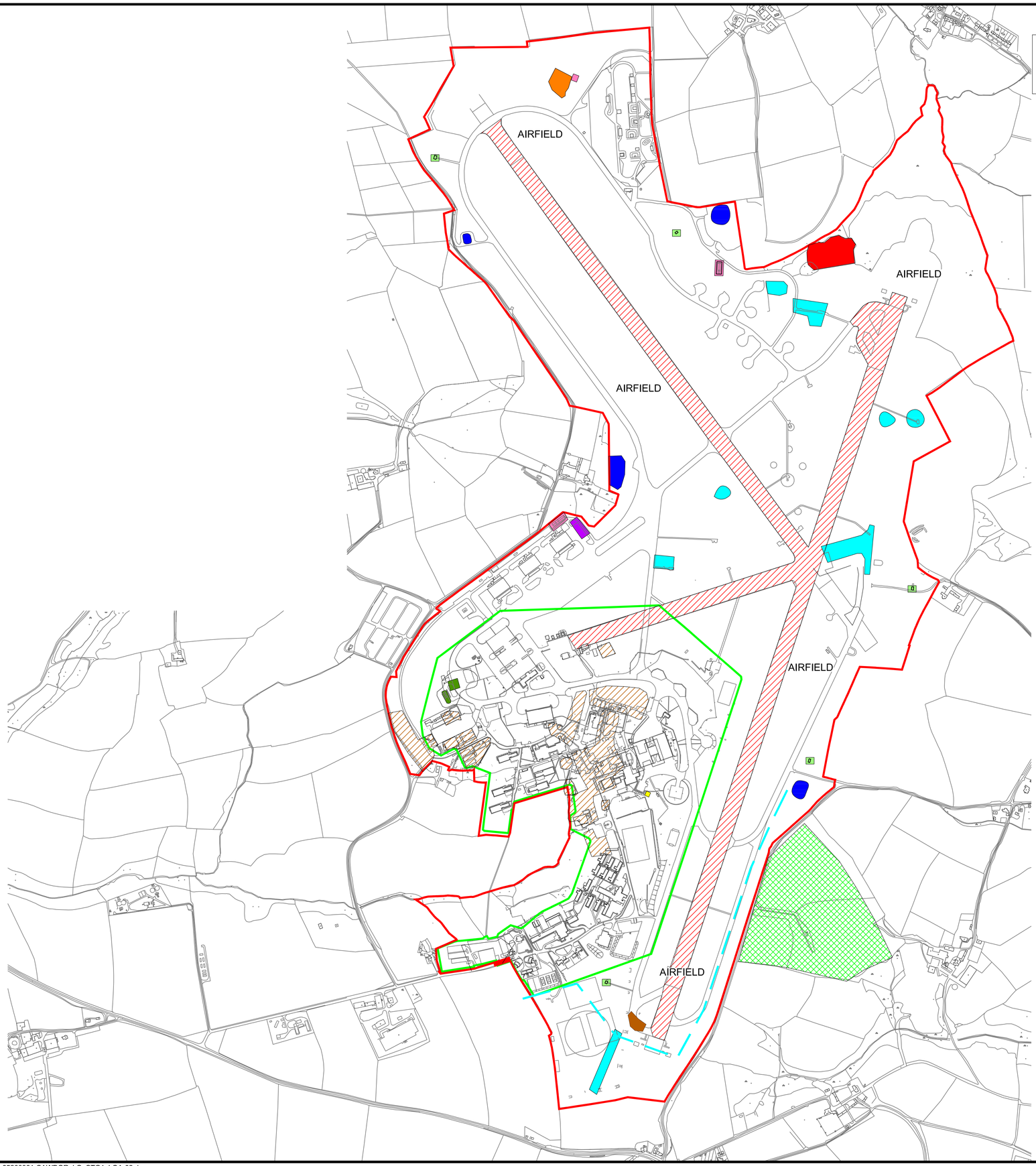
Drawing Number

65200861-CAWDOR_LQ_STG1_LQA-01

Rev

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Notes

LEGEND

- CAWDOR BARRACKS SITE
- TECHNICAL AREA AND BARRACKS

SOURCES

- SOURCE 1 — OLD BFI, BFI 1, BFI 2 AND NAVFAC BFI
- SOURCE 2 — FORMER FIRE TRAINING AREA
- SOURCE 3 — FORMER FUEL BOWSER PARKING
- SOURCE 4 — FORMER TIP / BURNING AREA
- SOURCE 5 — FORMER NAVFAC BFI PIPELINE
- SOURCE 6 — CURRENT BFI/ POL POINT
- SOURCE 7 — HISTORICAL POL POINTS AND FORMER ABOVE AND BELOW GROUND FUEL STORAGE TANKS, AND SMALL FORMER FIRE TRAINING AREA LOCATED WITHIN THE TECHNICAL AREA/BARRACKS AREA
- SOURCE 8 — KNOWN ASBESTOS CONTAMINATES AREA
- SOURCE 9 — FORMER ELECTRICITY DISTRIBUTION SUBSTATIONS
- SOURCE 10 — REDUNDANT OWIs
- SOURCE 11 — AIRCRAFT PARKING, AIRFIELD USE AND CRASHES
- SOURCE 12 — INFILLED QUARRIES / GRAVEL PITS, LINEAR MOUND AT THE END OF THE RUNWAY TRENDING SSW TO NNE

SOURCES OFF SITE

- SOURCE 13 — FORMER BRAWDY FARM SAND PIT

Rev.	Date	Amendment Details	Orig	Chk'd	App'd

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Project Title

DARC - CAWDOR BARRACKS

Drawing Title

AREAS OF POTENTIAL CONTAMINATION

Scale	Originator	Drawn	Checked	Approved
1:8000	CP	RE	CP	SL
Original Size	Date	Date	Date	Date
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Drawing Number: 65200861-CAWDOR_LQ_STG1_LQA-02 — Rev

0 10 20 30 40 50 60 70 80 90 100

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NORTH

SOUTH

EXTENT OF SITE

OFF SITE AMENITY USERS

TECHNICAL AREA

BARRACKS ACCOMMODATION

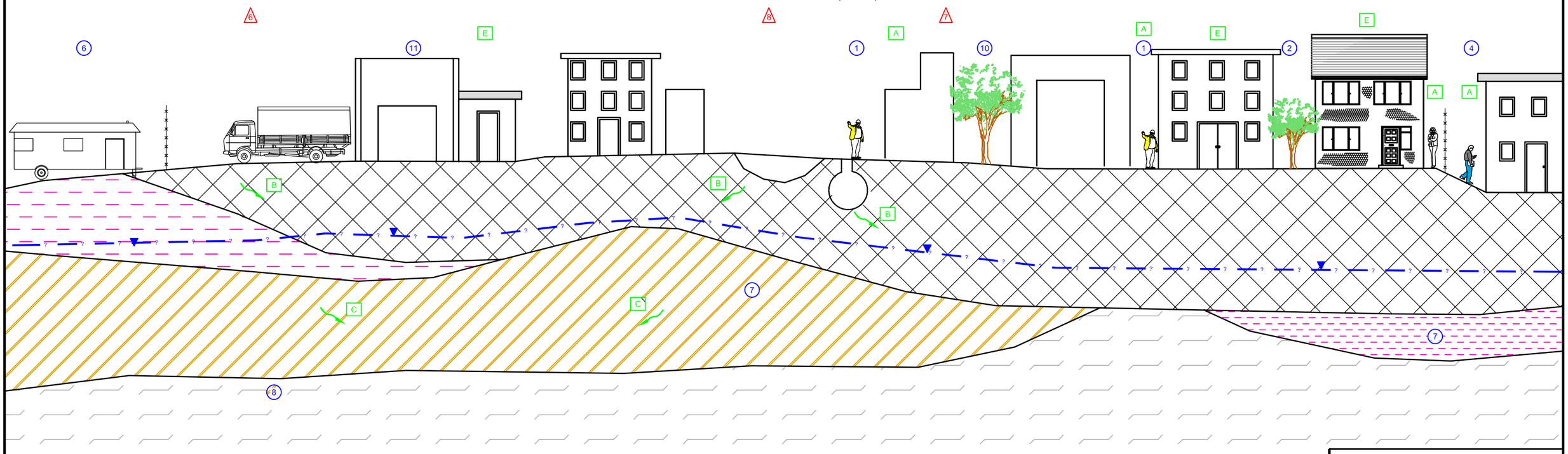
UNDERGROUND TANK

BUILDINGS FORMERLY CONTAINING BELOW AND ABOVE GROUND TANKS

OFFICERS MESS

RESIDENTIAL / GARDEN

BRAWDY BUSINESS PARK



LEGEND

- MADE GROUND
- ALLUVIUM
- CLAY
- SOLID GEOLOGY
- GROUNDWATER (DEPTH IS UNCONFIRMED)
- LEACHING / DISSOLUTION

SOURCES

6 CURRENT BFI/ POL POINT

7 HISTORICAL POL POINTS AND FORMER ABOVE AND BELOW GROUND FUEL STORAGE TANKS, AND SMALL FORMER FIRE TRAINING AREA LOCATED WITHIN THE TECHNICAL AREA/BARRACKS AREA

8 KNOWN ASBESTOS CONTAMINATED AREA

9 FORMER ELECTRICITY DISTRIBUTION SUBSTATIONS

PATHWAYS

A DERMAL CONTACT/ INGESTION/ INHALATION

B LEACHING AND VERTICAL MIGRATION OF CONTAMINANTS

C MIGRATION OF NAPL OR CONTAMINATED GROUNDWATER

D UPTAKE / INGESTION BY FLORA AND FAUNA

E DIRECT CONTACT WITH BUILDINGS AND SERVICES

RECEPTORS

1 ONSITE PERSONNEL

2 ONSITE RESIDENTS (WITH GARDENS)

4 OFFSITE COMMERCIAL WORKERS

6 OFFSITE AMENITY USERS

7 GLACIOFLUVIAL DEPOSITS: SECONDARY A AQUIFER

8 LINGULA FLAGS, TRIFFLETON GROUP SANDSTONE AND RAMSEY SOUND GROUP SOLID GEOLOGY: SECONDARY B AQUIFER

10 ON SITE FLORA AND FAUNA

11 BUILDINGS AND BURIED SERVICES

Rev.	Date	Amendment Details	Orig	Chk'd	App'd

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Drawing Status

PHASE 1 LQA

Project Title

DARC - CAWDOR BARRACKS

Drawing Title

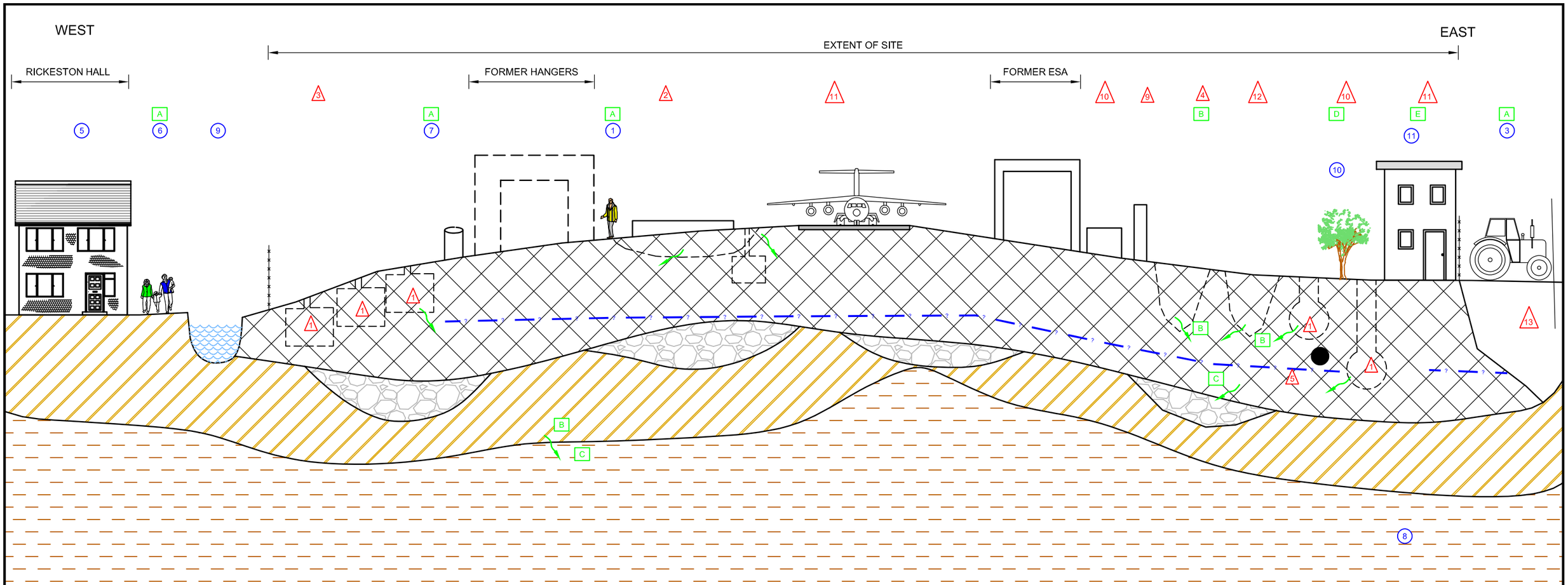
NORTH - SOUTH
CONCEPTUAL SITE MODEL

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Original Size	Date	Date	Date	Date
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Drawing Number: 65200864-CAWDOR_LQ_STG1_LQA-03

Revision:

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LEGEND

- HARDSTANDING
- MADE GROUND
- SAND AND GRAVEL
- CLAY
- MUDSTONE
- GROUNDWATER (DEPTH IS UNCONFIRMED)
- LEACHING / DISSOLUTION

SOURCES

1. OLD BFI, BFI 1, BFI 2 AND NAVFAC BFI
2. FORMER FIRE TRAINING AREA
3. FORMER FUEL BOWSER PARKING
4. FORMER TIP / BURNING AREA
5. FORMER NAVFAC BFI PIPELINE
9. FORMER ELECTRICITY DISTRIBUTION SUBSTATIONS
10. REDUNDANT OWIs
11. AIRCRAFT PARKING, AIRFIELD USE AND CRASHES
12. INFILLED QUARRIES / GRAVEL PITS, LINEAR MOUND AT THE END OF THE RUNWAY TRENDING SSW TO NNE

SOURCE OFF SITE

13. FORMER BRAWDY FARM SAND PIT

PATHWAYS

- A DERMAL CONTACT/ INGESTION/ INHALATION
- B LEACHING AND VERTICAL MIGRATION OF CONTAMINANTS
- C MIGRATION OF NAPL OR CONTAMINATED GROUNDWATER
- D UPTAKE / INGESTION BY FLORA AND FAUNA
- E DIRECT CONTACT WITH BUILDINGS AND SERVICES

RECEPTORS

1. ONSITE PERSONNEL
3. ONSITE (AND OFFSITE) FARMERS
5. OFFSITE RESIDENTS
6. OFFSITE AMENITY USERS
7. GLACIOFLUVIAL DEPOSITS: SECONDARY A AQUIFER
8. LINGULA FLAGS, TRIFFLETON GROUP SANDSTONE AND RAMSEY SOUND GROUP SOLID GEOLOGY: SECONDARY B AQUIFER
9. SURFACE WATER (UNNAMED SURFACE WATER COURSES ADJACENT TO THE SITE)
10. ON SITE FLORA AND FAUNA
11. BUILDINGS AND BURIED SERVICES

Rev.	Date	Amendment Details	Orig	Chk'd	App'd

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Drawing Status
PHASE 1 LQA

Project Title
DARC - CAWDOR BARRACKS

Drawing Title
WEST - EAST
CONCEPTUAL SITE MODEL

Scale	Originator	Drawn	Checked	Approved
N.T.S.	CP	RE	CP	SL
Original Size	Date	Date	Date	Date
A3	FEB 2023	FEB 2023	FEB 2023	FEB 2023

Drawing Number
65200864-CAWDOR_LQ_STG1_LQA-04

Revision

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Appendix A – Phase 1LQA Methodology

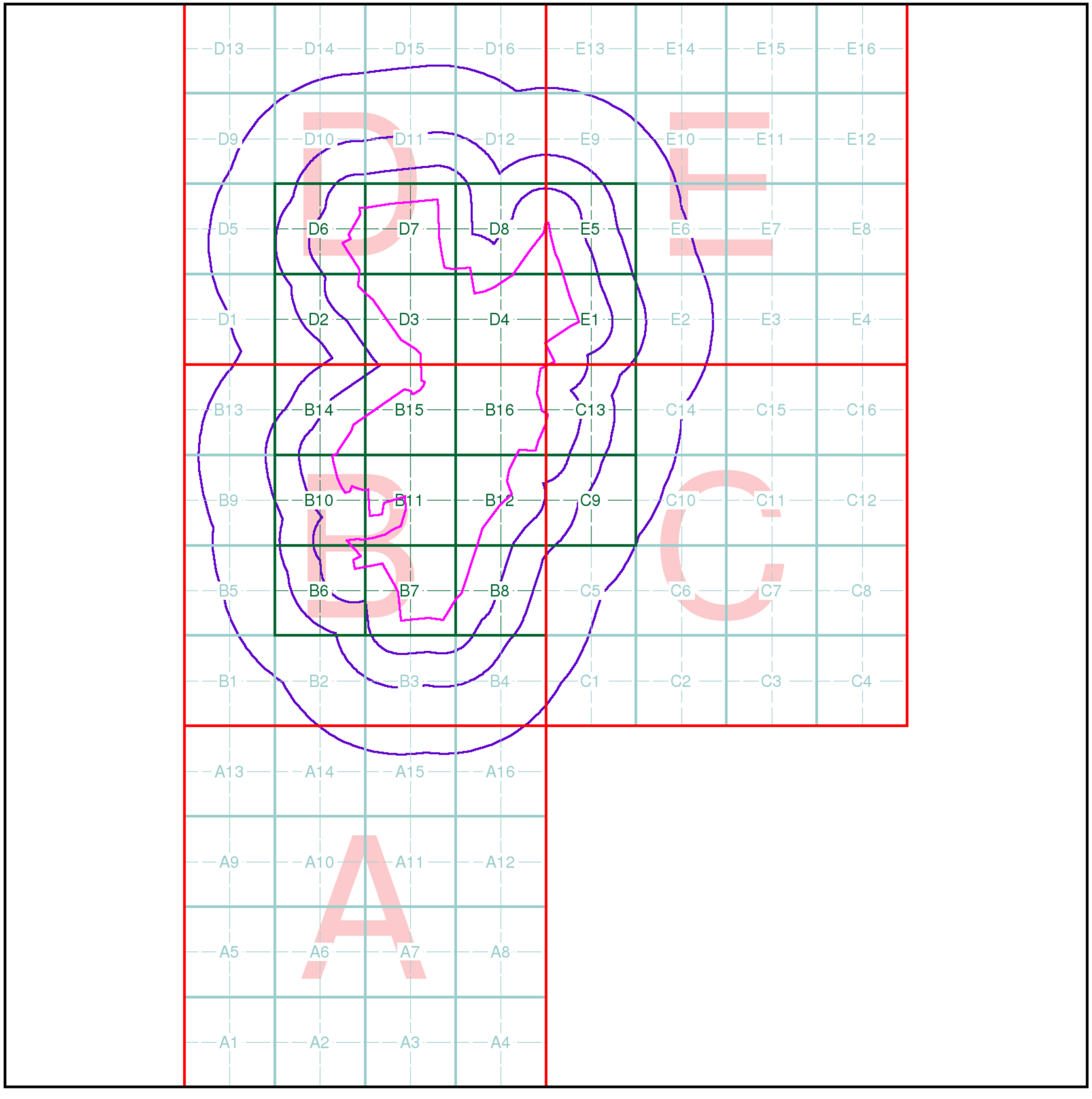
APPENDIX A – METHODOLOGY AND APPROACH

1.1 Methodology

In order to achieve the objectives of the study the following tasks have been completed as summarised below:

- Information requests to ***facility representatives*** identified as being available personnel most familiar with current/former site operations, in order to obtain background information;
- Undertaking a ***site reconnaissance*** encompassing adjoining and nearby properties;
- Researching ***local geological records*** (soil conditions), and available hydrogeological studies from published sources;
- Obtaining available environmental data from ***environmental regulators*** via third party data providers;
- Obtaining relevant information from MOD's ***Defence Science Technical Laboratories*** (***DSTL)*** regarding any radiological materials held at the site;
- Reviewing the ***history of site use*** to identify possible previous activities/site layouts that might have led to the presence of contamination;
- Preparing ***LQA reports*** summarising our observations and relating to the apparent environmental conditions at the site;
- Producing a ***Conceptual Site Model (CSM)*** describing potential sources, pathways and receptors relevant to the site and
- Completing a ***qualitative risk assessment*** to determine the potential land quality risks associated with the identified pollutant linkages.

Appendix B – Landmark Envirocheck Report



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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

Sweco Services UK Ltd, Grove House,
Mansion Gate Drive, Leeds, LS7 4DN

Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184960, 225220
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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

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Fax: 0844 844 9951
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Groundwater Vulnerability

General

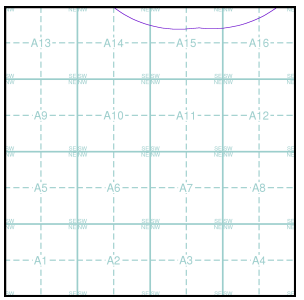
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

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

Unproductive Aquifer
Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184770, 222680
Slice:	A
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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Bedrock Aquifer Designation

General

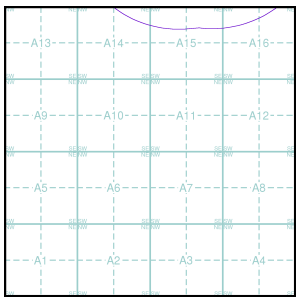
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



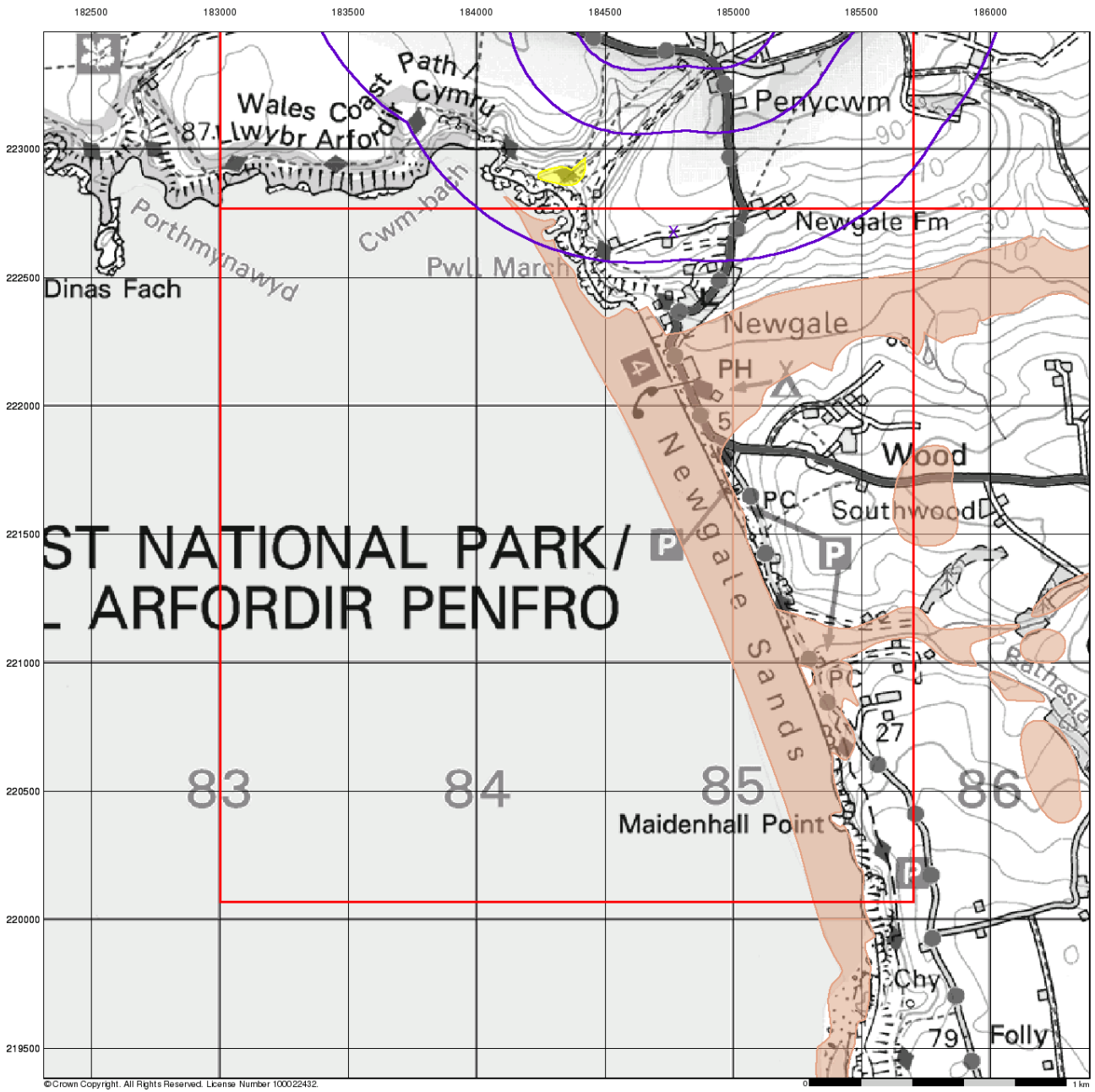
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National Grid Reference:	184770, 222680
Slice:	A
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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



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Superficial Aquifer Designation

General

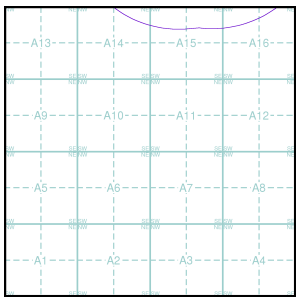
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



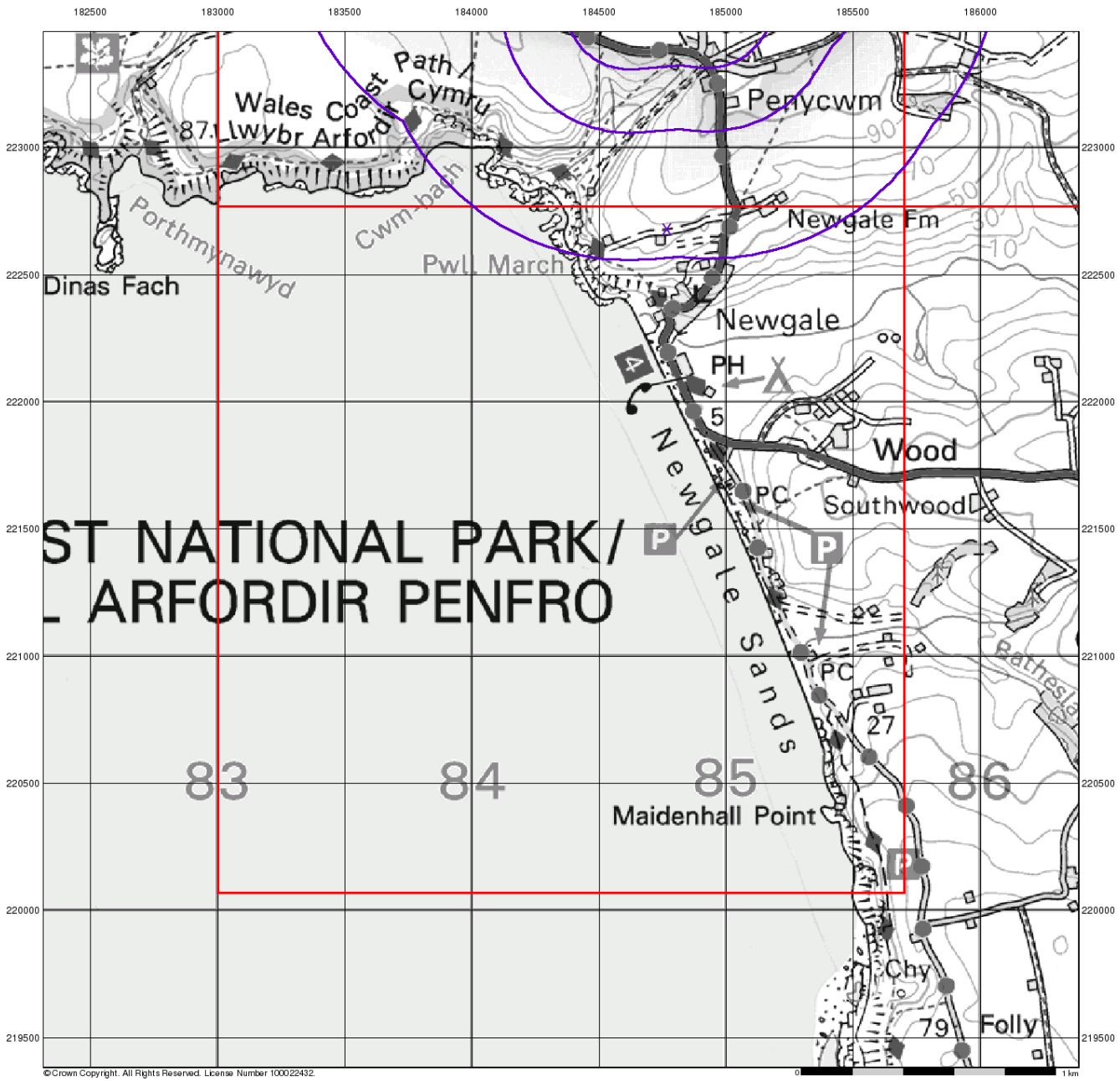
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184770, 222680
Slice:	A
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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



SWECO

Source Protection Zones

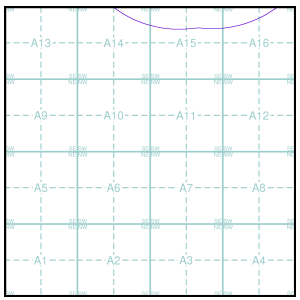
General

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



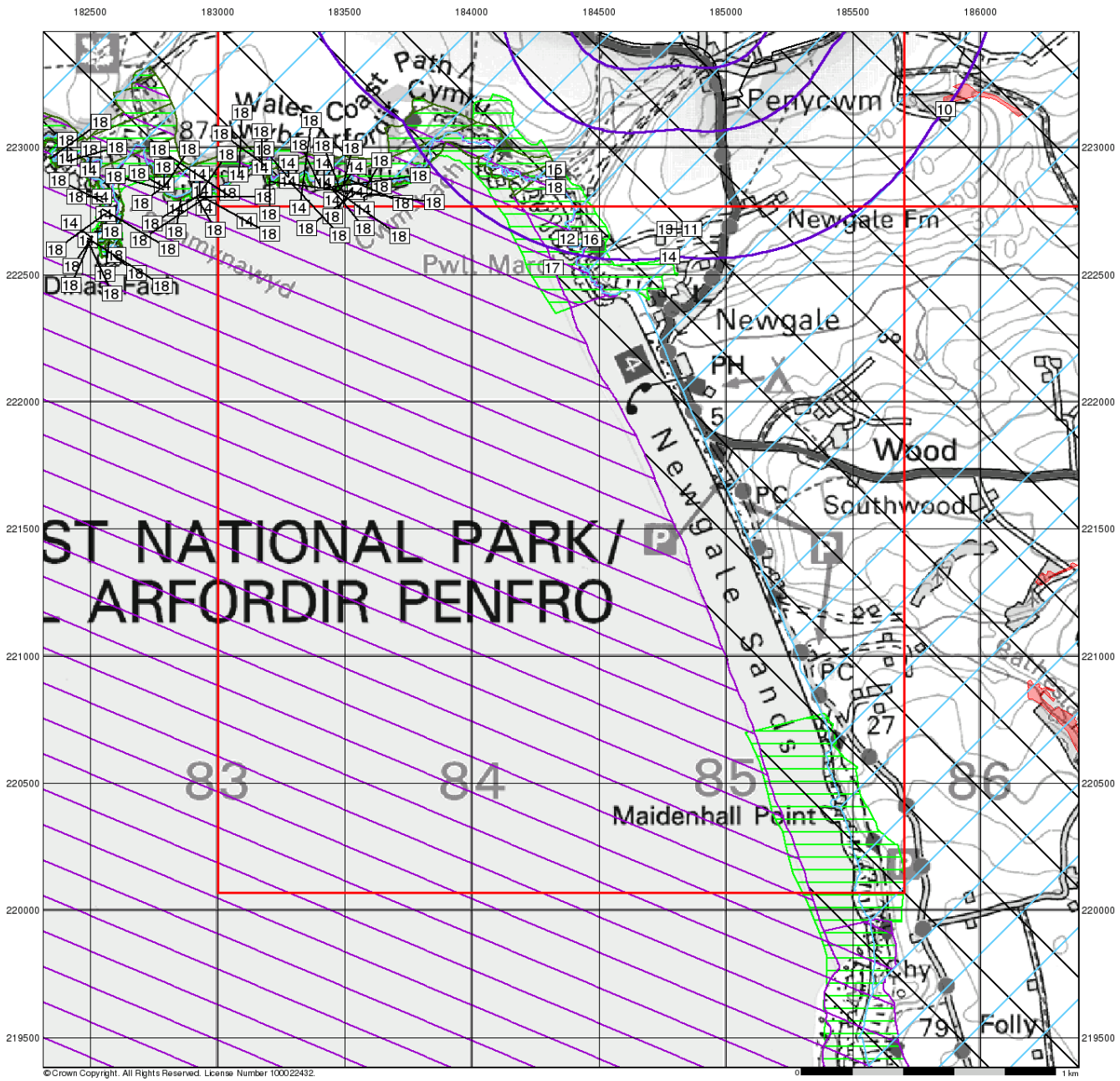
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184770, 222680
Slice:	A
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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Web: www.envirocheck.co.uk



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Sensitive Land Uses

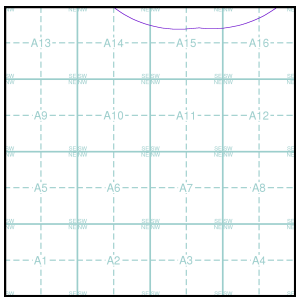
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



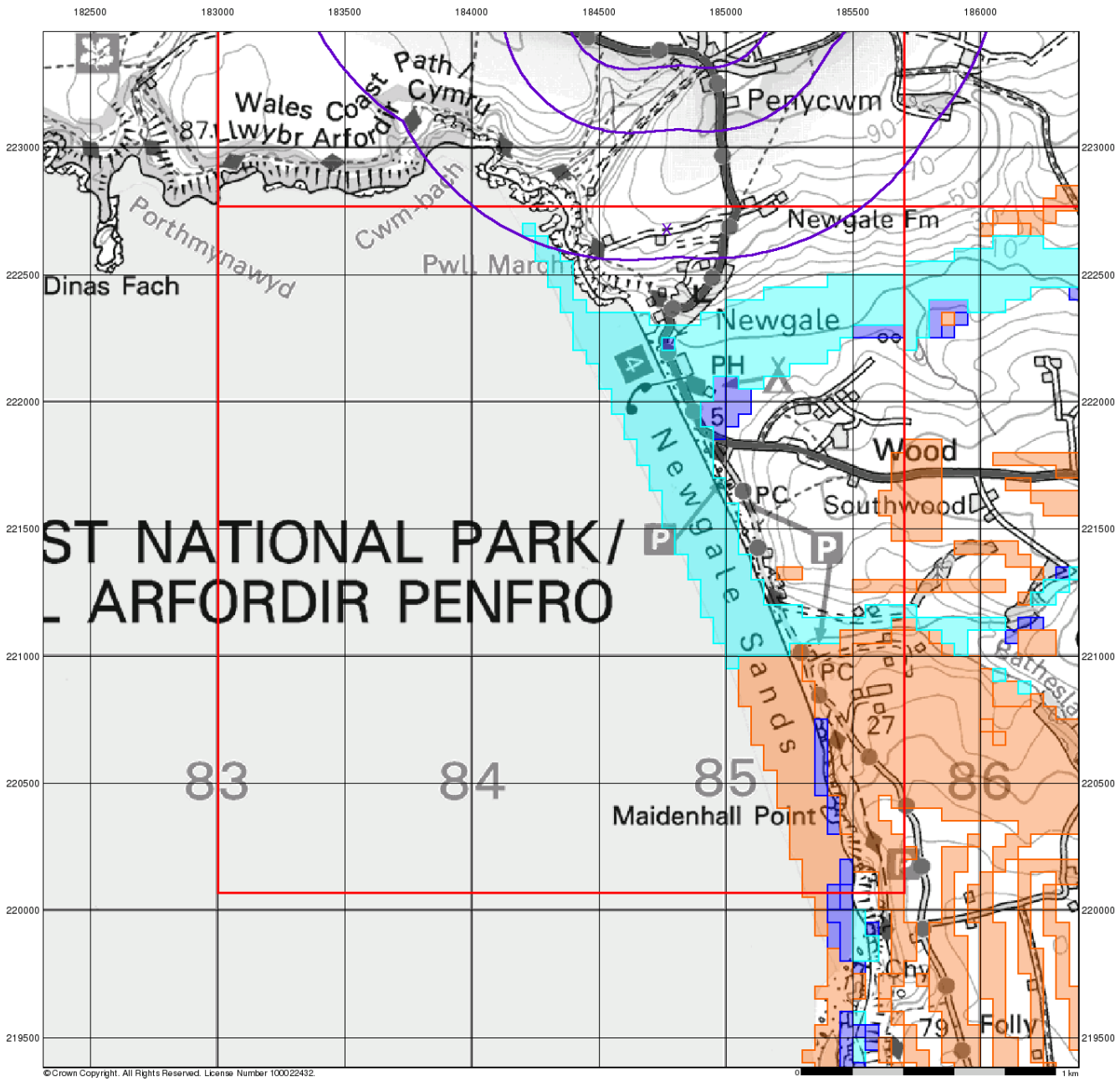
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184770, 222680
Slice:	A
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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



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BGS Flood GFS Data

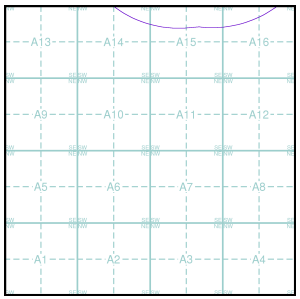
General

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



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184770, 222680
Slice:	A
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
305022956_1_1

Customer Reference:
65208061

National Grid Reference:
184770, 222680

Slice:
A

Site Area (Ha):
308.46

Search Buffer (m):
1000

Site Details:

Cawdor site

Client Details:

Sweco Services UK Ltd
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

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Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	5
Hazardous Substances	-
Geological	6
Industrial Land Use	-
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Data Suppliers	13
Useful Contacts	14

Introduction

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

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Report Version v53.0

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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					n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1				1
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1				Yes
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 1				(*7)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 3	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				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 3				7

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 5	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 6	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 6				1
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	pg 6	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 6	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 6	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				n/a	n/a
Radon Potential - Radon Affected Areas	pg 6	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

SWECO

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries					
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 8				1
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 8	1			1
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks	pg 8		1		
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 8				1
Special Areas of Conservation	pg 8				3
Special Protection Areas	pg 8				1
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: The Occupier Property Type: Undefined Or Other Location: Chalet Frena Newgale Hill Hfdwest, Newgale Hill, Haverfordwest Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bn0005901 Permit Version: 1 Effective Date: 18th October 1967 Issued Date: 18th October 1967 Revocation Date: 2nd July 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Underground Strata **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A15NE (E)	967	2	185000 222600
	Nearest Surface Water Feature	A15NW (W)	771	-	184405 222737
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage 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 April Authorised End: 31 October Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1843	2	186590 222720
	Water Abstractions Operator: P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): 12000 Details: Crow Cwm Stream At Lower Llethr; Penycwm Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1843	3	186590 222720
	Water Abstractions Operator: Mr & Mrs P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Land At Brawdy Farm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage 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: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1843	2	186590 222720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr & Mrs P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Land At Brawdy Farm Authority: Natural Resources Wales Abstraction: Mineral Products: General use relating to Secondary Category (High Loss) 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: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1843	2	186590 222720
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Apr to 31-Oct Authorised Start: 04 January Authorised End: 10 July Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	(E)	1845	2	186590 222715
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: Mineral Products: General Use(High Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Apr to 31-Oct Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	(E)	1850	2	186595 222715
	Water Abstractions Operator: Mr G D Lovegrove Licence Number: 22/61/2/0036 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 100 Yearly Rate (m3): 7201 Details: Brandy Brook Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1869	3	186400 222410

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: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(N)	0	2	184767 223000
	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: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NE)	0	2	185000 223000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A15NE (E)	0	2	185000 222680
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A15NE (W)	0	2	184767 222680
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
2	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 134.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	(E)	773	4	185313 222822
3	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 280.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	A16NW (E)	853	4	185089 222723

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	A16NW (E)	894	4	185329 222764
5	**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: St Davids Head and St Brides North Primacy: 1	A16NW (E)	896	4	185329 222762
6	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 19.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	A16NE (E)	959	4	185367 222711
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 227.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	A16NW (E)	960	4	185166 222633
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 113.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	A16NW (E)	978	4	185320 222657

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Pembrokeshire County Council - Has supplied landfill data		0	5	184767 222680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Cambrian Rocks (Undifferentiated)	(N)	0	1	184683 222891
9	**BGS Recorded Mineral Sites** Site Name: Penduffryn Location: Newgale, St Davids, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 188810 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Menevian Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A15NE (E)	863	1	184935 222701
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	185000 222680
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	185000 222680
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	185000 222680
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	185000 222680
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (E)	0	1	185000 222680
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (W)	0	1	184767 222680
	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	A15NE (E)	0	1	184850 222680
	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	A15NE (E)	0	1	185000 222680
	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	A15NE (E)	0	1	184850 222680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A15NE (E)	0	1	185000 222680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Ancient Woodland** Name: Not Supplied Reference: 4710 Area(m²): 8906.03 Type: Ancient and Semi-Natural Woodland	(NE)	967	2	185866 223151
11	**Environmentally Sensitive Areas** Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 1187932672 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	A15NE (W)	0	7	184767 222680
12	**Environmentally Sensitive Areas** Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 484.375 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	A15NW (W)	931	7	184381 222643
13	**National Parks** Name: Pembrokeshire Coast Multiple Area: Y Area (m2): 187013417.05 Source: Natural Resources Wales **Status: Fully Designated - designated as a National Park** Designation Date: 31st December 1951	A15NE (W)	140	2	184767 222680
14	**Sites of Special Scientific Interest** Name: St. Davids Peninsula Coast Multiple Areas: Y Total Area (m2): 6858510.94 Source: Natural Resources Wales Reference: 108832wtj Designation Details: Mixed Biological And Geological Designation Date: 1st January 1954 Date Type: Notified	A15NE (S)	597	2	184780 222569
15	**Special Areas of Conservation** Name: St Davids / Ty Ddewi Multiple Areas: Y Total Area (m2): 9398841.84 Source: Natural Resources Wales Reference: UK0013045 **Status: Designated**	(NW)	674	2	184332 222914
16	**Special Areas of Conservation** Name: Pembrokeshire Marine / Sir Benfro Forol Multiple Areas: Y Total Area (m2): 1380663657.51 Source: Natural Resources Wales Reference: Uk0013116 **Status: Designated**	A15NW (W)	746	2	184473 222637
17	**Special Areas of Conservation** Name: West Wales Marine / Gorllewin Cymru Forol Multiple Areas: Y Total Area (m2): 7377173853.81 Source: Natural Resources Wales Reference: UK0030397 **Status: Designated**	A14NE (W)	832	2	184322 222527
18	**Special Protection Areas** Name: Ramsey And St Davids Peninsula Coast Multiple Areas: Y Total Area (m2): 8462392.96 Source: Natural Resources Wales Reference: Uk9014062 Designation Date: 24th July 1996	(NW)	674	2	184332 222914

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	June 2020	Annually
Pembrokeshire County Council - Public Protection Division	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	October 2022	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	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Local Authority Pollution Prevention and Controls		
Pembrokeshire County Council - Environmental Health Department	November 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Nearest Surface Water Feature		
Ordnance Survey	October 2022	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
Substantiated Pollution Incident Register		
Environment Agency Wales - South West Area	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Abstractions		
Environment Agency - Welsh Region	October 2022	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	Quarterly
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences		
Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas		
Natural Resources Wales	August 2019	Quarterly
Flood Defences		
Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines		
Ordnance Survey	October 2022	Quarterly
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	As notified
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	July 2019	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Natural Resources Wales	October 2021	Quarterly
Environment Agency Wales - South West Area	October 2022	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency Wales - South West Area	July 2021	Quarterly
Natural Resources Wales	July 2022	Quarterly
Local Authority Landfill Coverage		
Pembrokeshire County Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Pembrokeshire County Council - Environmental Health Department	October 2018	
Registered Landfill Sites		
Environment Agency Wales - South West Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - South West Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - South West Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Variable
Pembrokeshire County Council - Planning Department	October 2015	Variable
Planning Hazardous Substance Consents		
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Variable
Pembrokeshire County Council - Planning Department	October 2015	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	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	March 2014	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	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt		
Pembrokeshire Coast National Park Authority - Development Control	July 2022	Quarterly
Pembrokeshire County Council	July 2022	Quarterly
Areas of Unadopted Green Belt		
Pembrokeshire Coast National Park Authority - Development Control	July 2022	Quarterly
Pembrokeshire County Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Pembrokeshire County Council	August 2018	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves		
Natural Resources Wales	February 2022	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	July 2019	Bi-Annually
Ramsar Sites		
Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2018	Bi-Annually

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	

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**Pembrokeshire County Council - Environmental Health Department** Public Protection Division, Pembrokeshire County Council, County Hall, Haverfordwest, Pembrokeshire, SA61 1TP	Telephone: 01437 764551 Fax: 01437 775838 Website: www.pembrokeshire.gov.uk
6	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	**The National Assembly for Wales - GI Services (Department of Planning & Countryside)** Yr Hen Ysgol Gymraeg, Alexandria Road, Aberystwyth, Ceredigion, SY23 1LD	Telephone: 02920 825111 Website: www.wales.gov.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

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

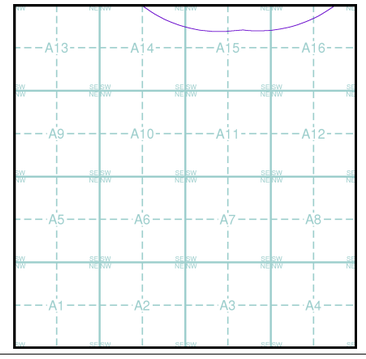
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community 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
Pembrokeshire	1:10,560	1888	2
Pembrokeshire	1:10,560	1908	3
Pembrokeshire	1:10,560	1953	4
Ordnance Survey Plan	1:10,000	1964	5
Ordnance Survey Plan	1:10,000	1979	6
10K Raster Mapping	1:10,000	2000	7
Street View	Variable		8

Historical Map - Slice A



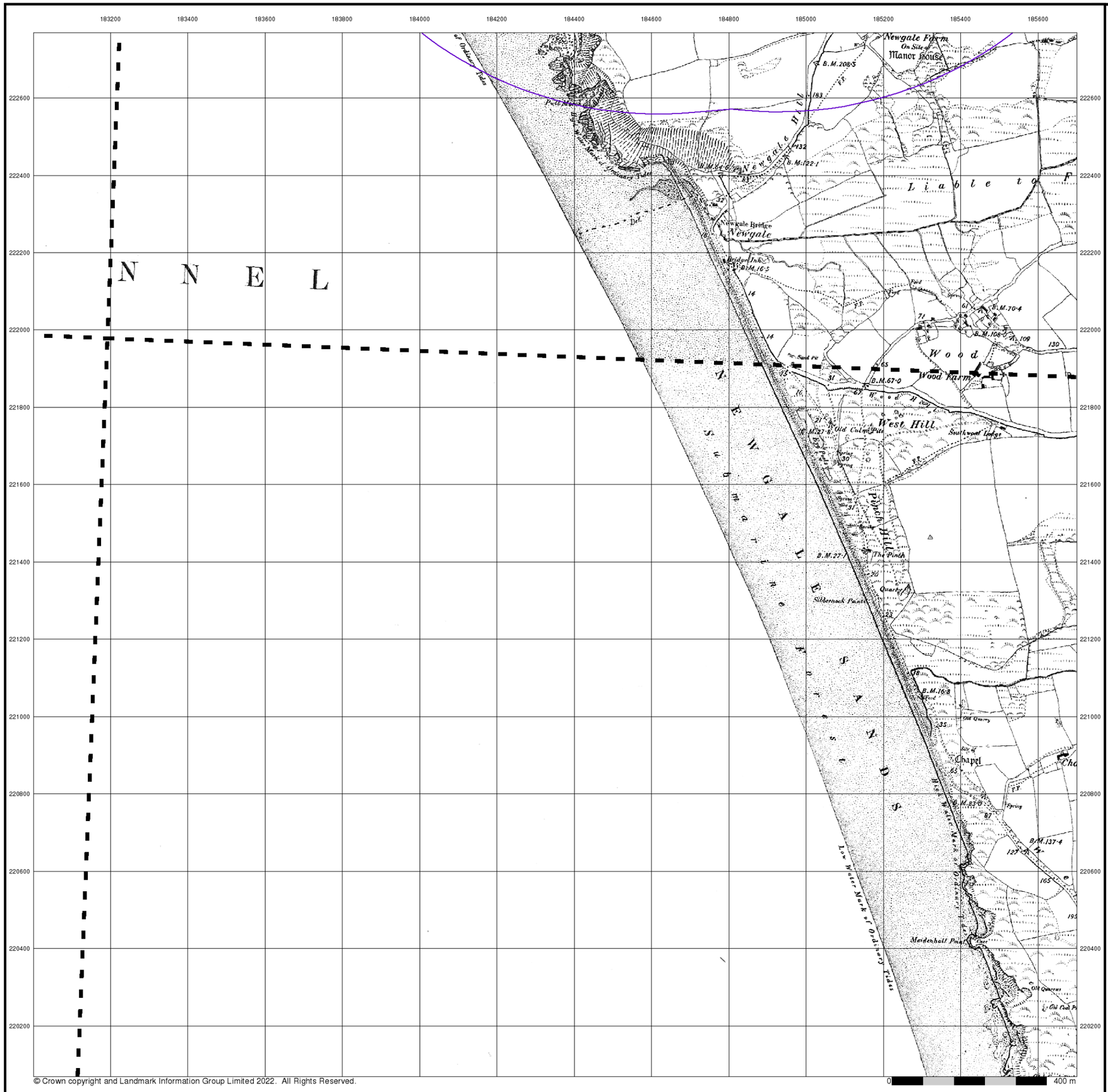
Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184770, 222680
Slice: A
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

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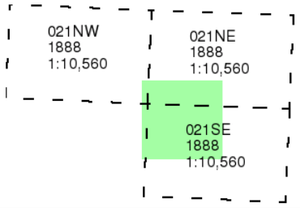
Pembrokeshire

Published 1888

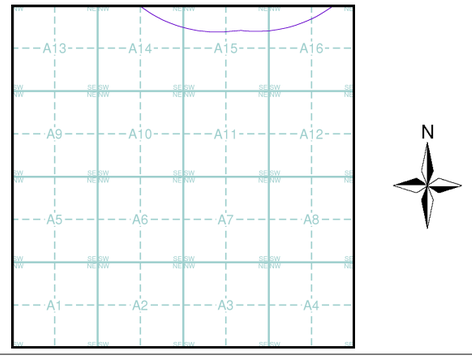
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



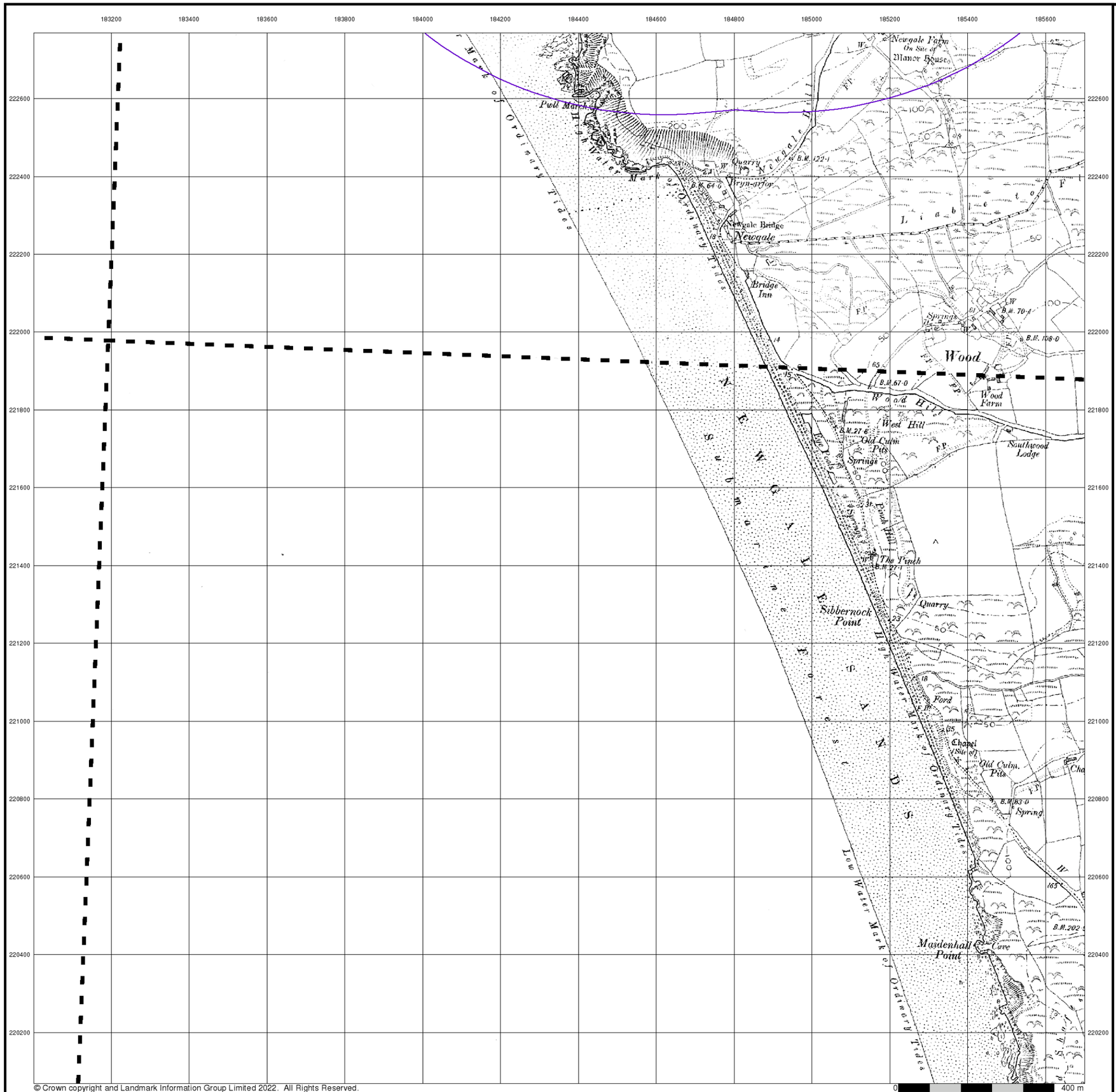
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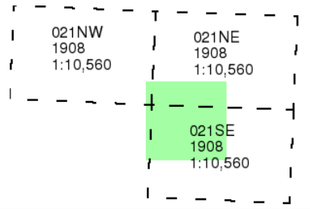
Pembrokeshire

Published 1908

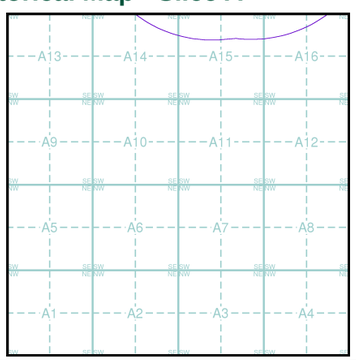
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Map Name(s) and Date(s)



Historical Map - Slice A



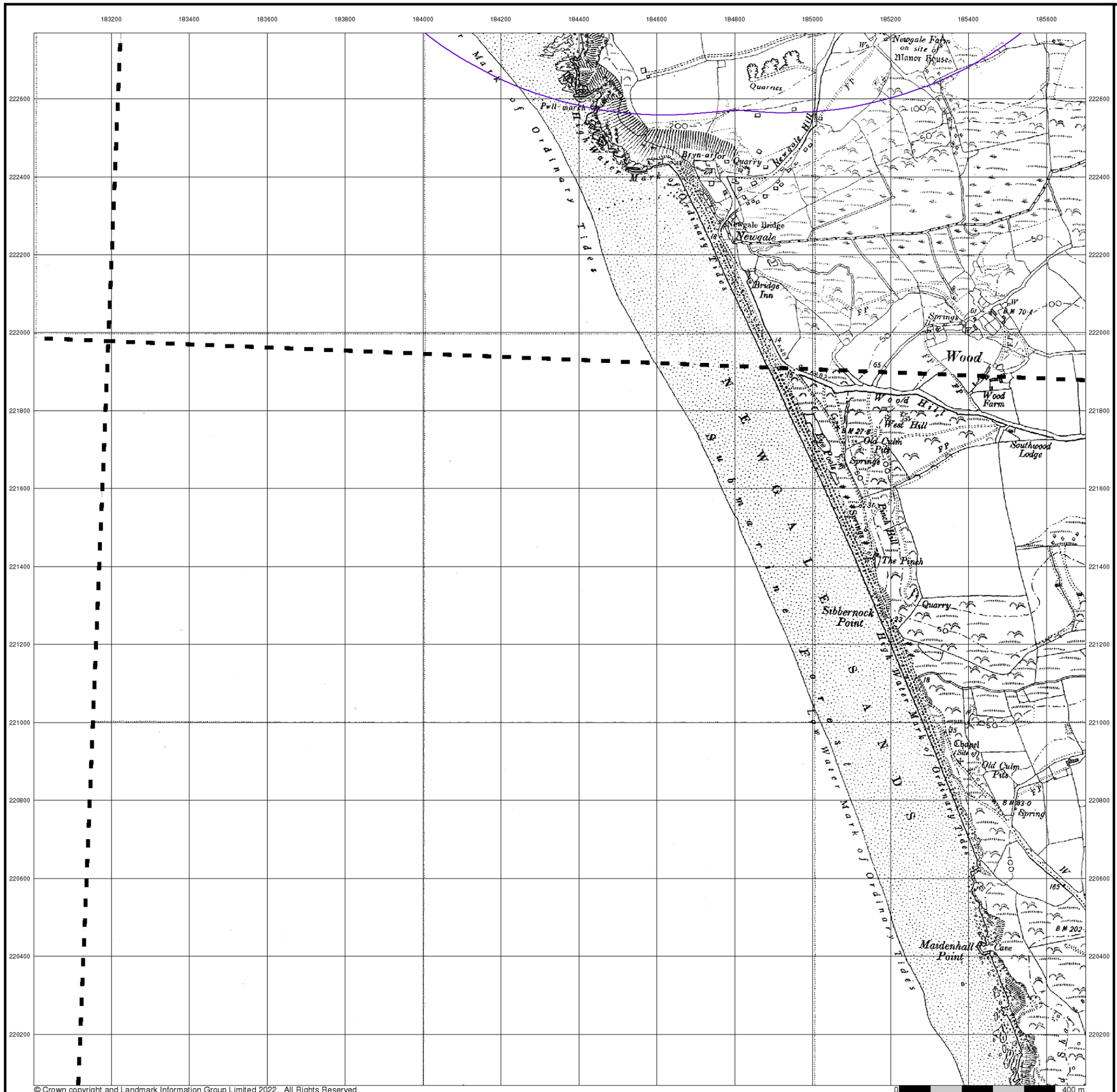
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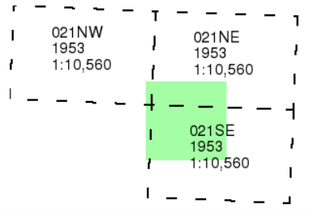
Pembrokeshire

Published 1953

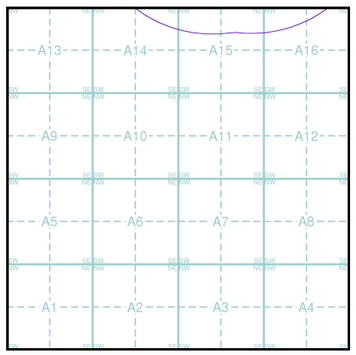
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Map Name(s) and Date(s)



Historical Map - Slice A



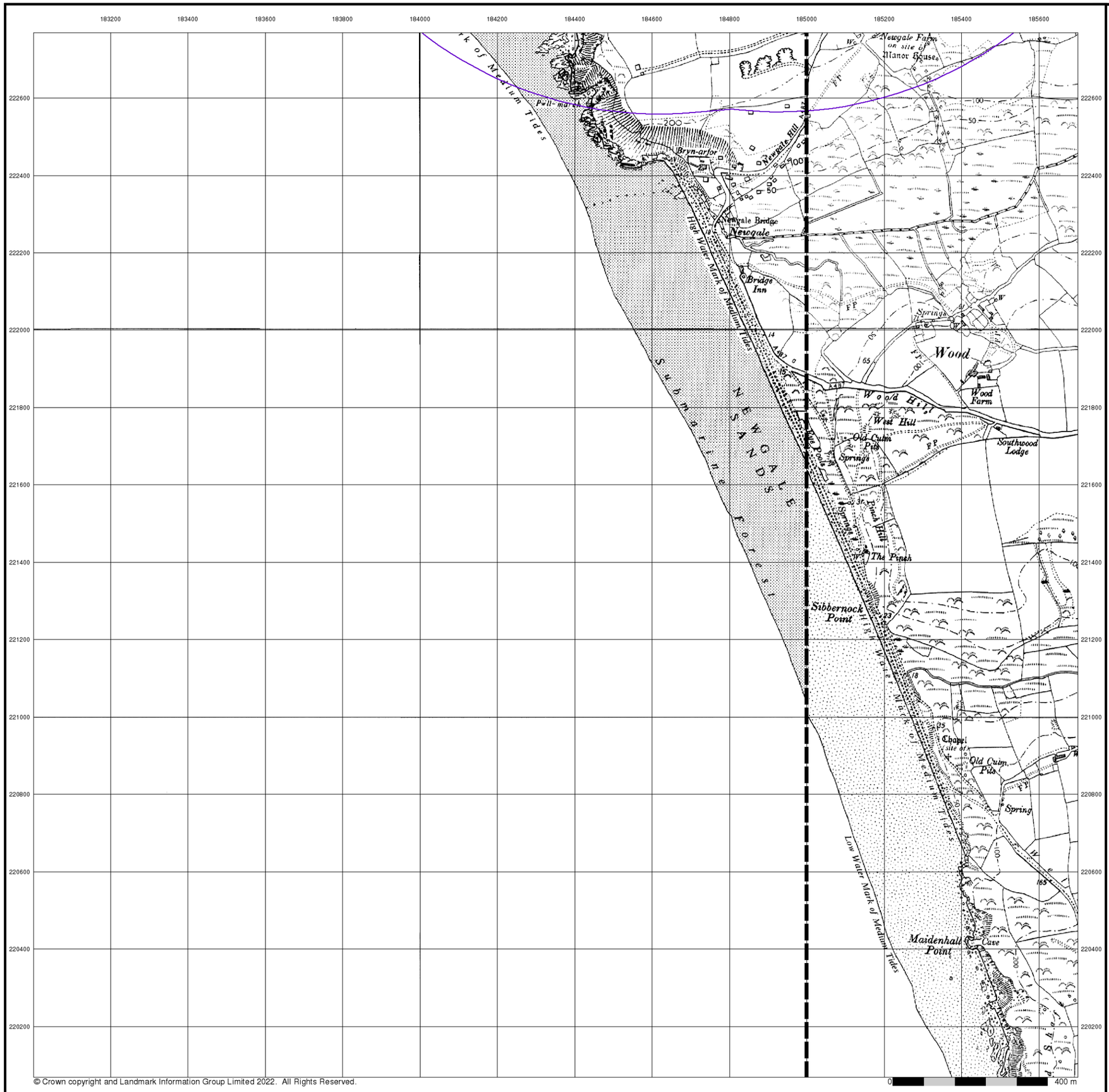
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Customer Ref:	65208061
National Grid Reference:	184770, 222680
Slice:	A
Site Area (Ha):	308.46
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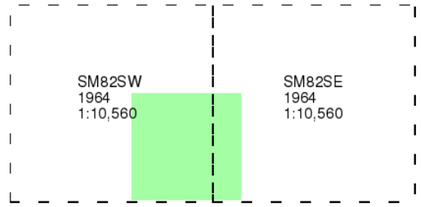
Ordnance Survey Plan

Published 1964

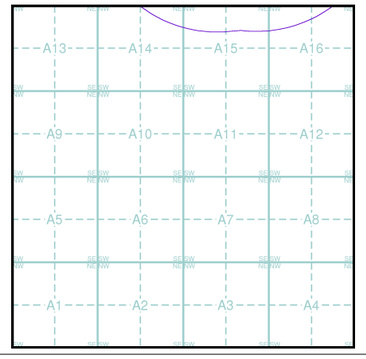
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



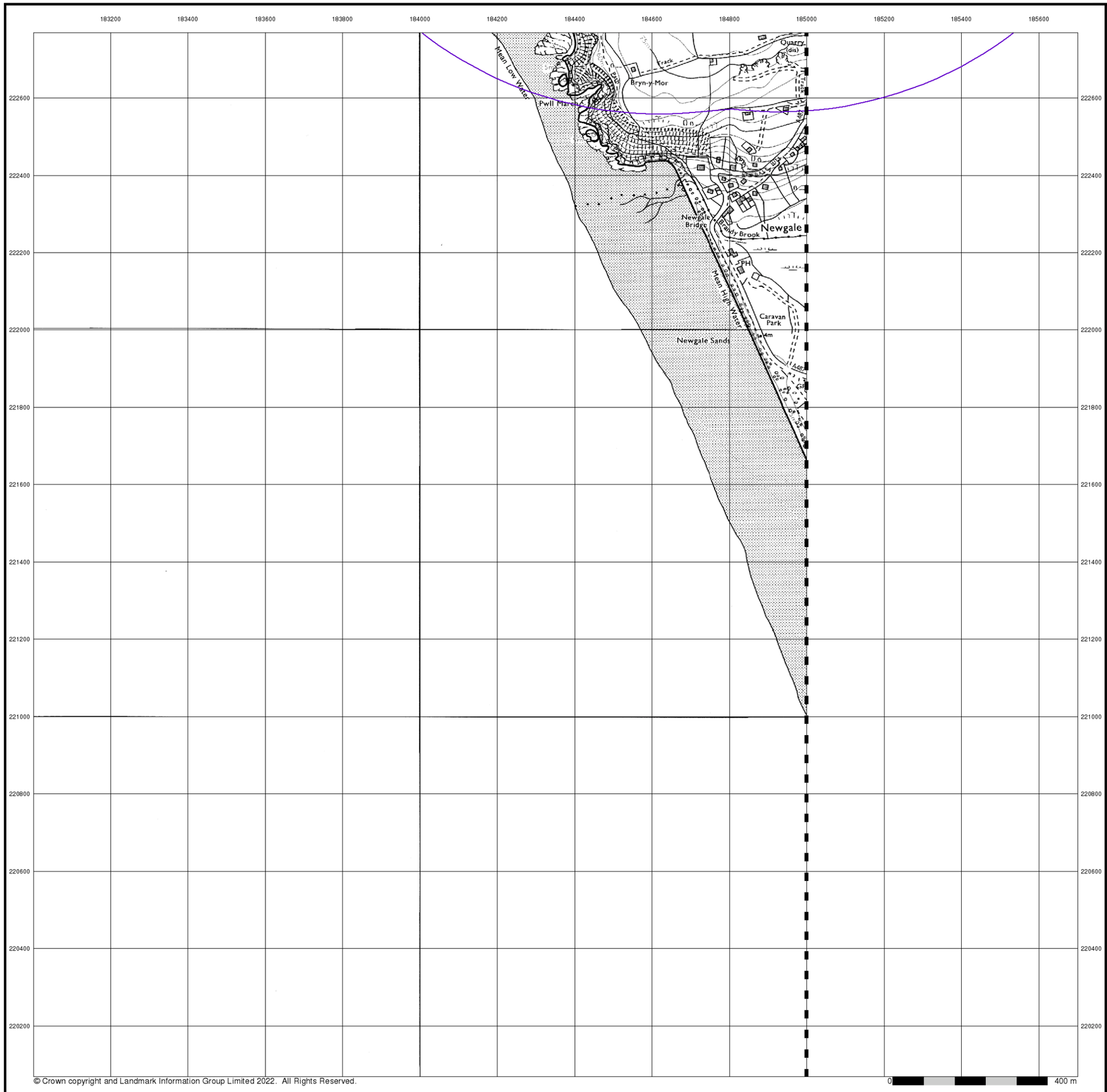
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Cawdor site

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SWECO

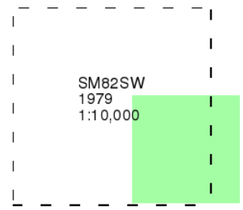
Ordnance Survey Plan

Published 1979

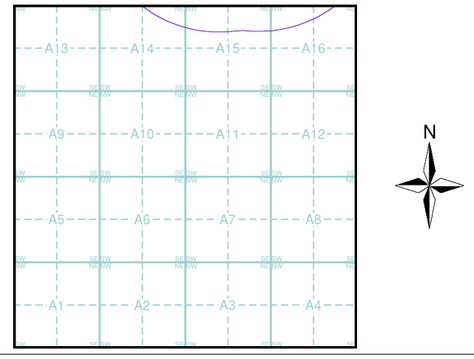
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

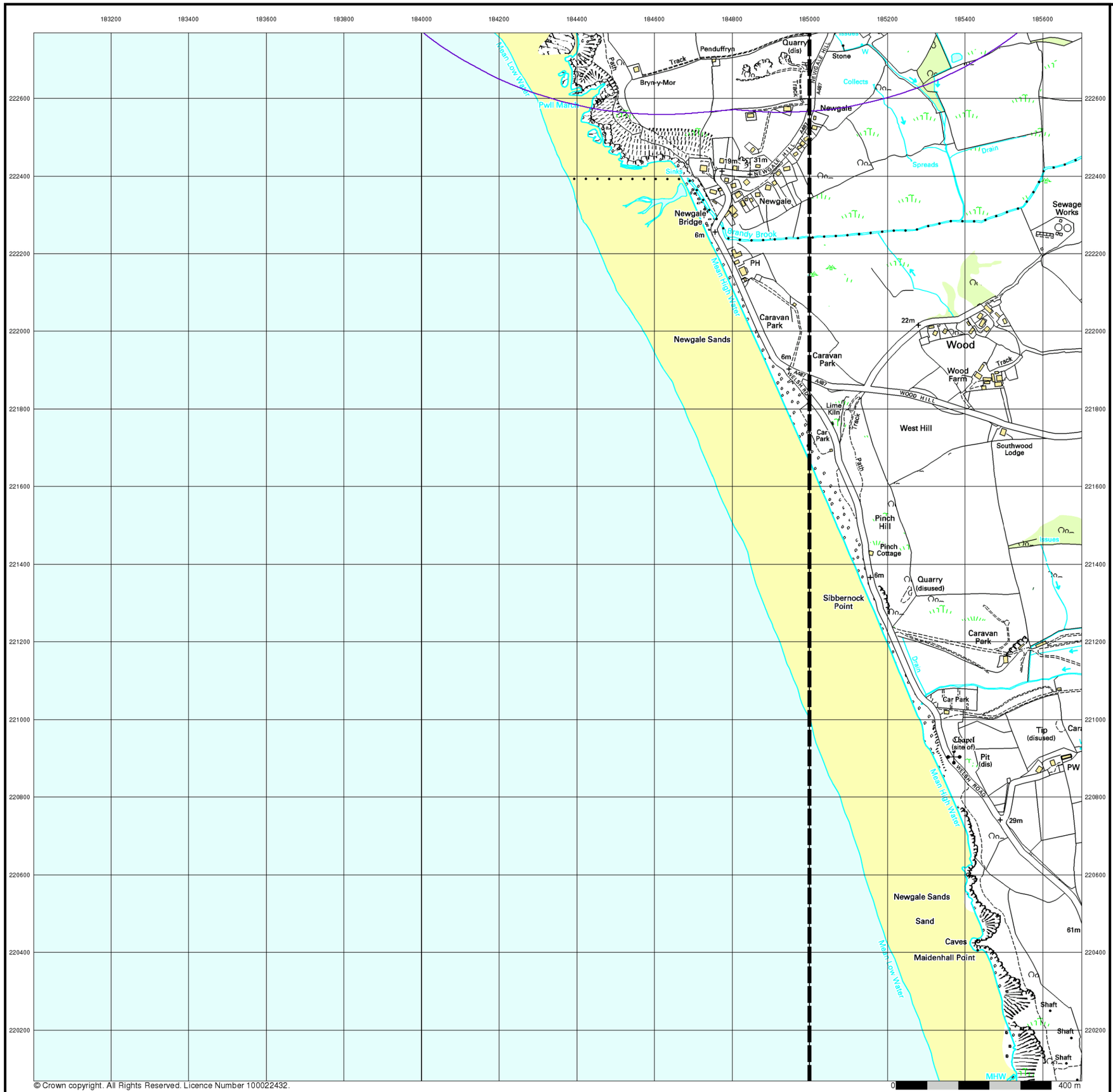
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184770, 222680
Slice:	A
Site Area (Ha):	308.46
Search Buffer (m):	1000

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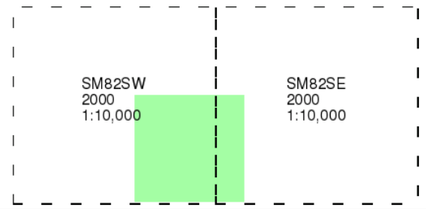
10k Raster Mapping

Published 2000

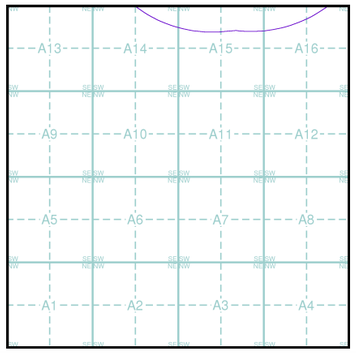
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



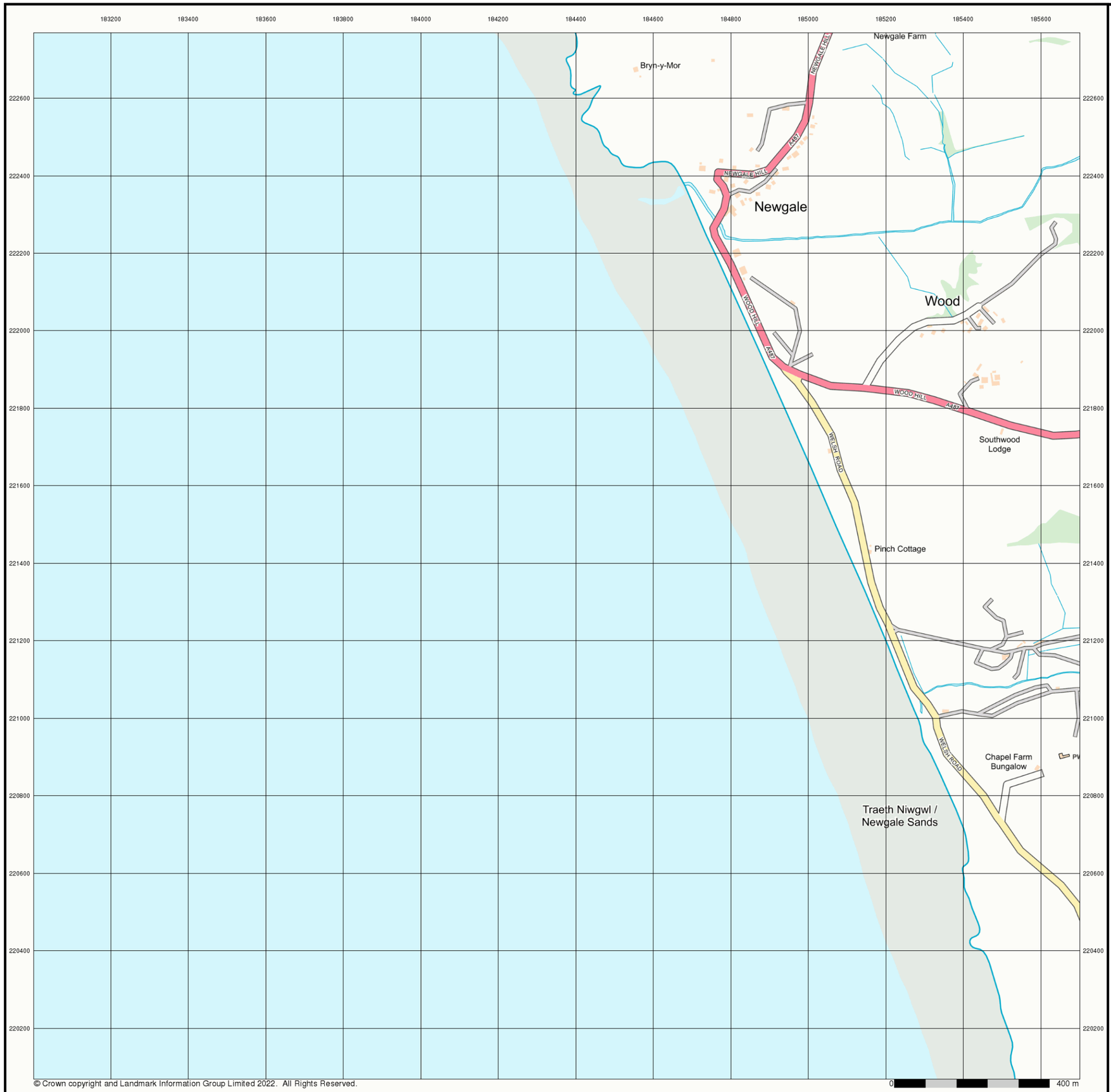
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Street View

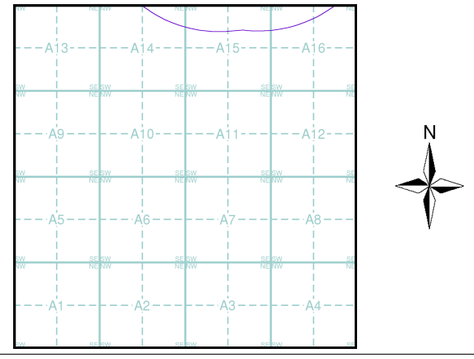
Published 2022

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice A



Order Details

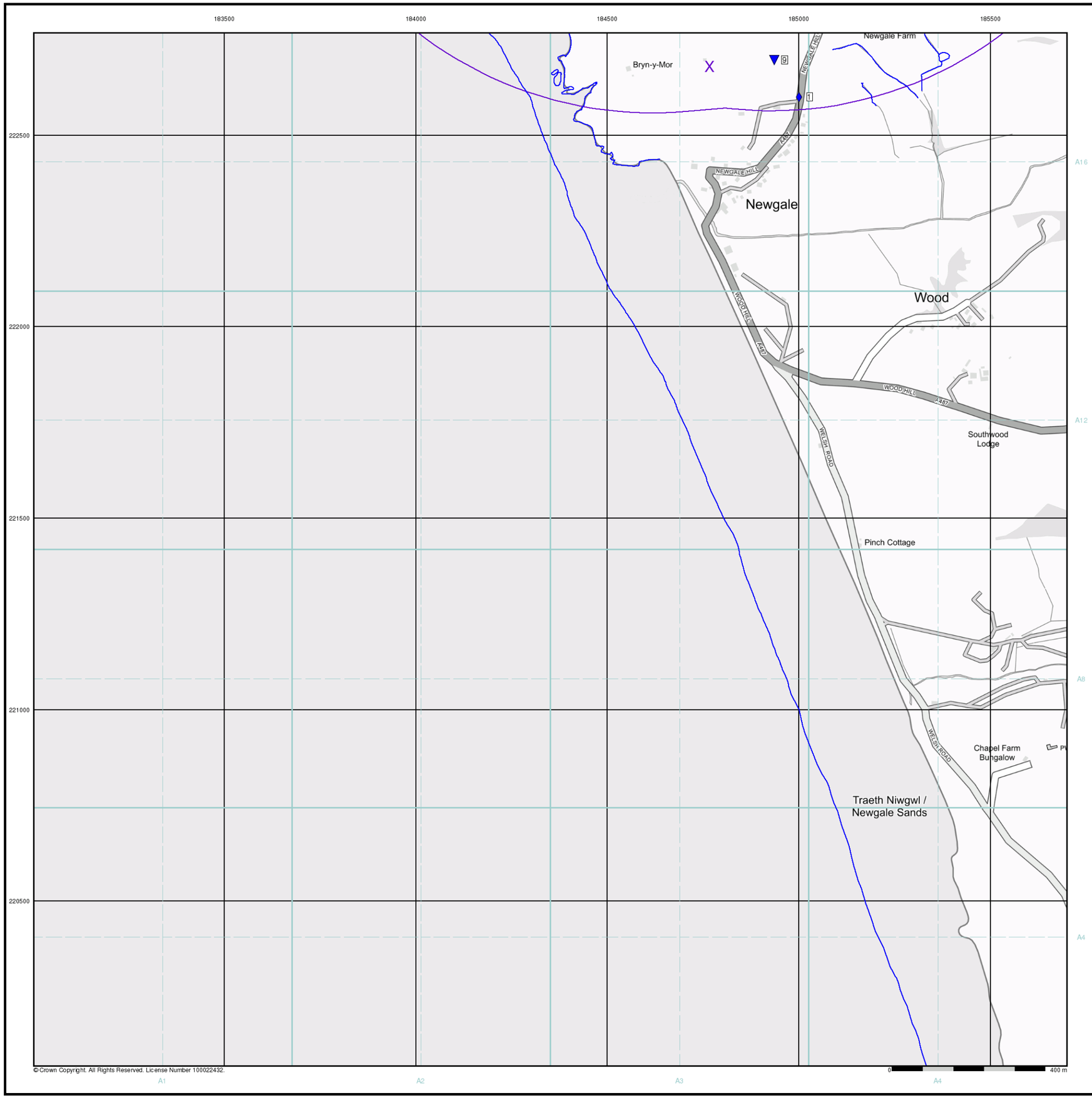
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General

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

Agency and Hydrological

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

Geological

BGS Recorded Mineral Site

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry

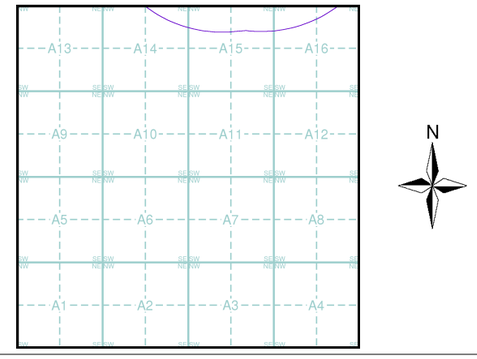
Waste

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
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

Site Sensitivity Map - Slice A



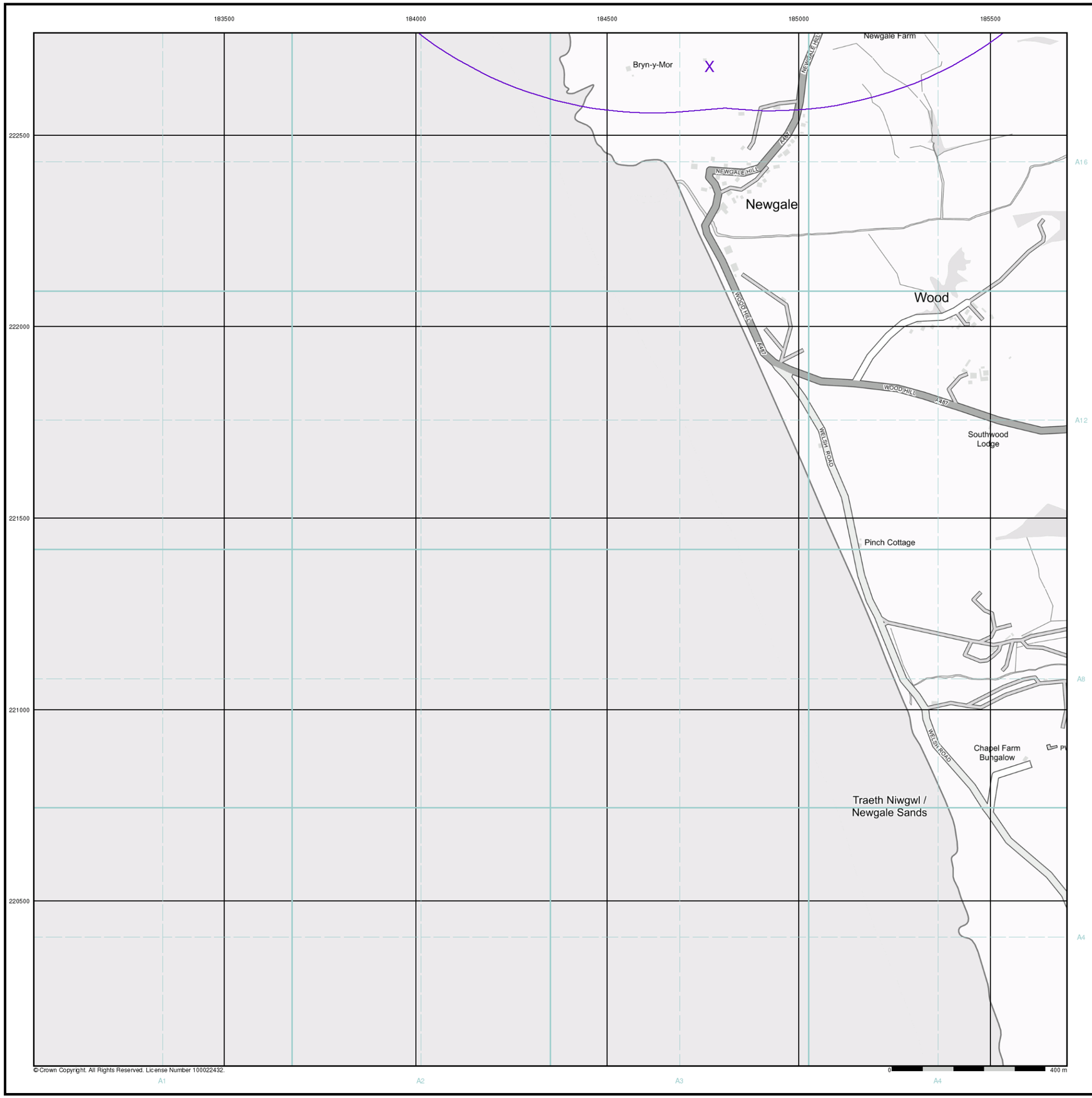
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Industrial Land Use Map

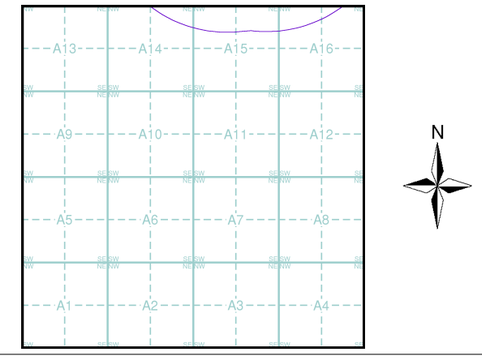
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice A



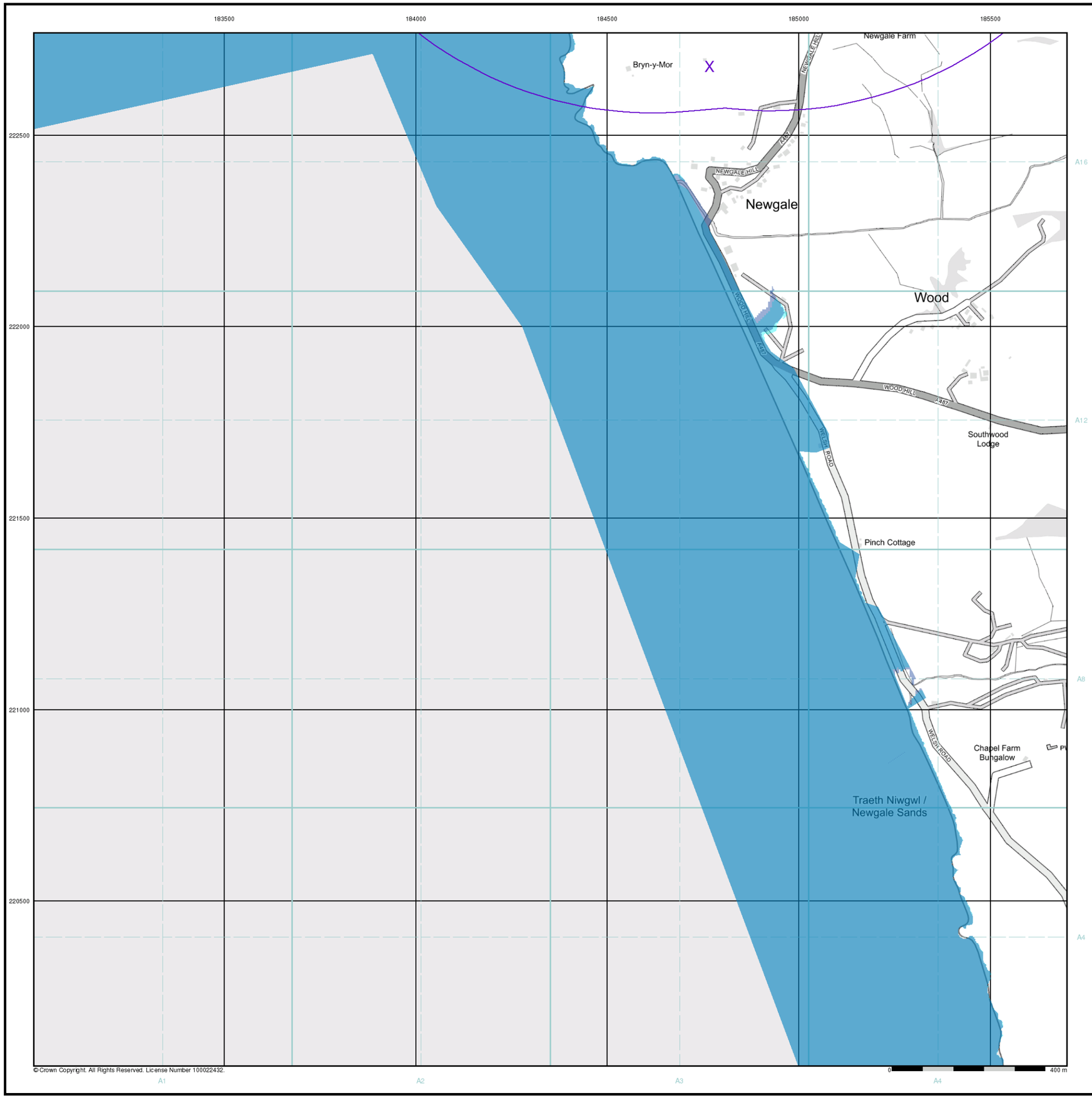
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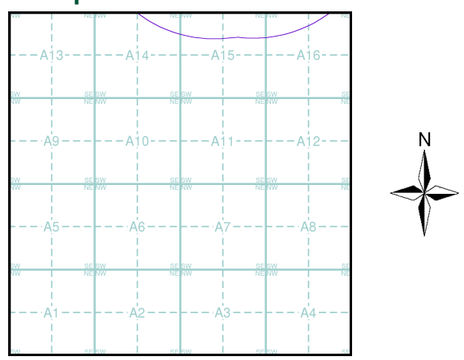
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



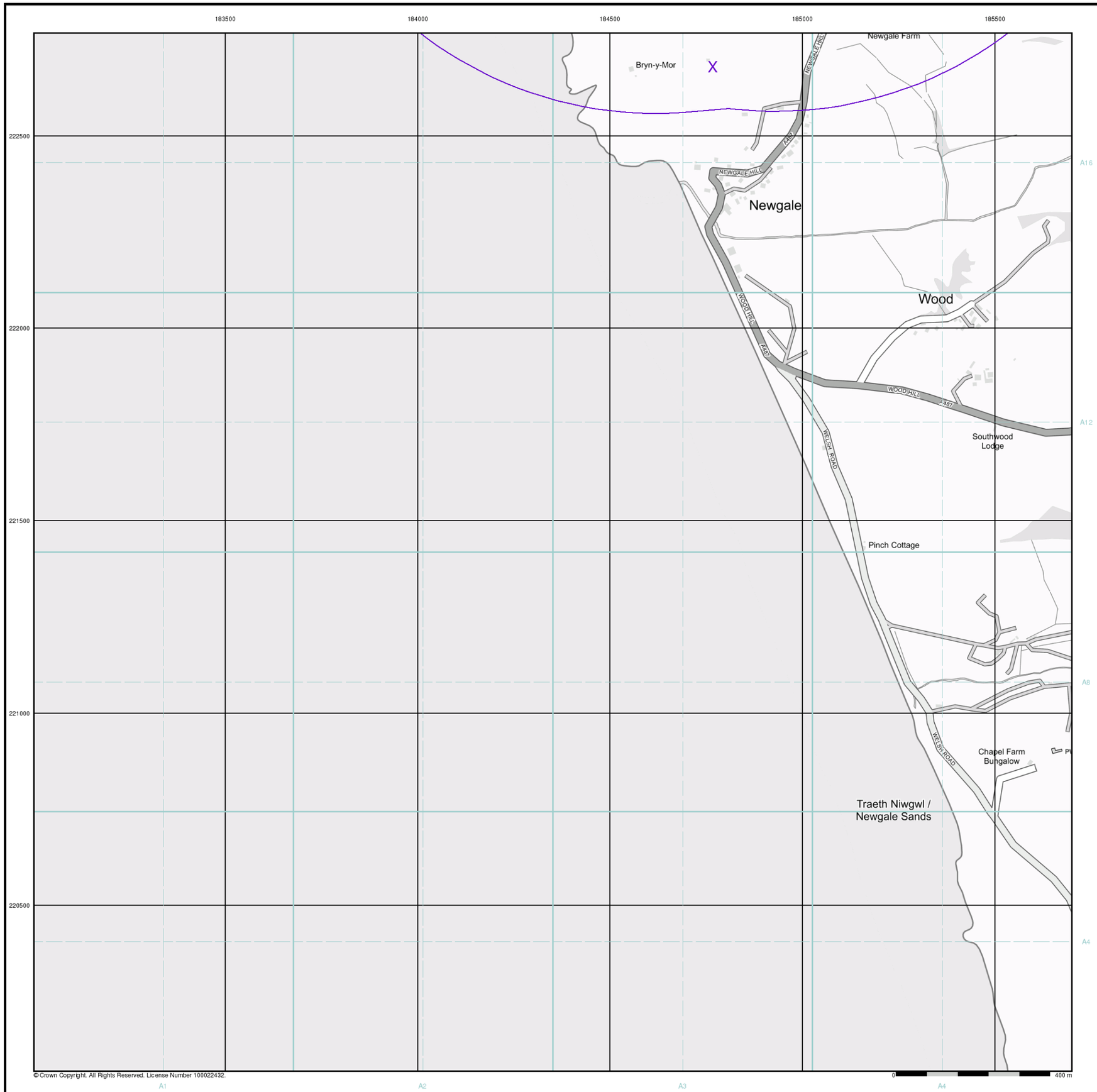
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General

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

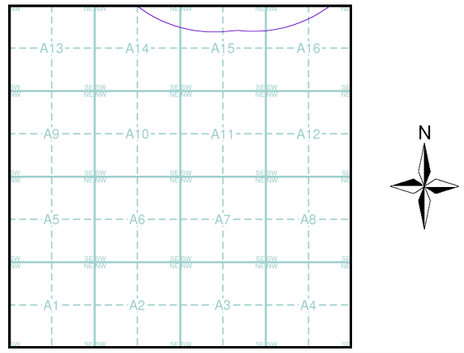
Agency and Hydrological (Boreholes)

- 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



Order Details

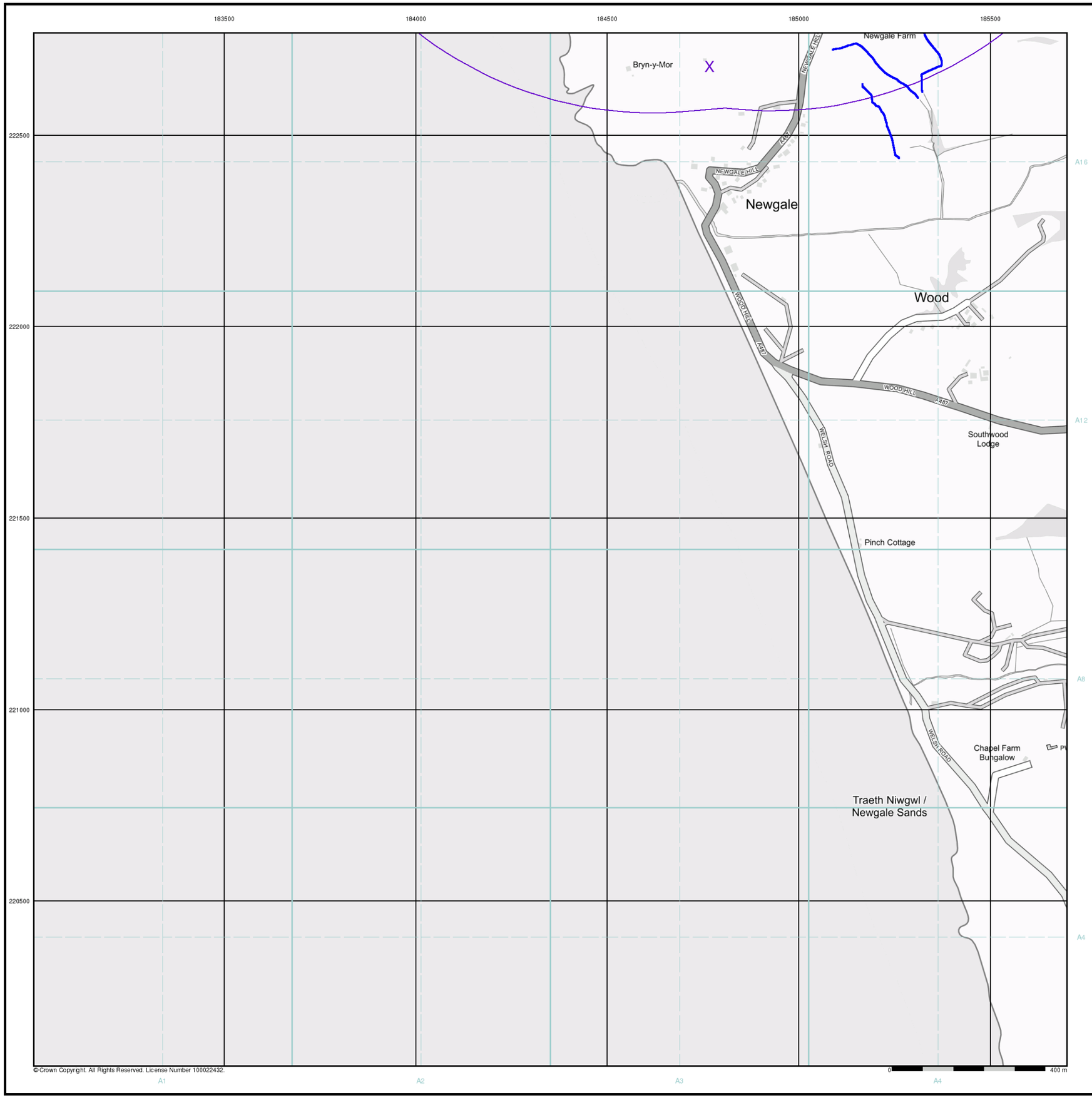
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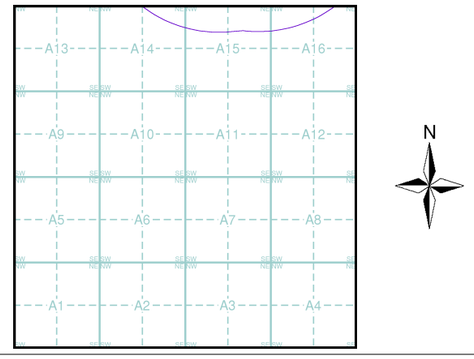
General

- Specified Site
- Specified Buffer(s)
- X 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

OS Water Network Map - Slice A



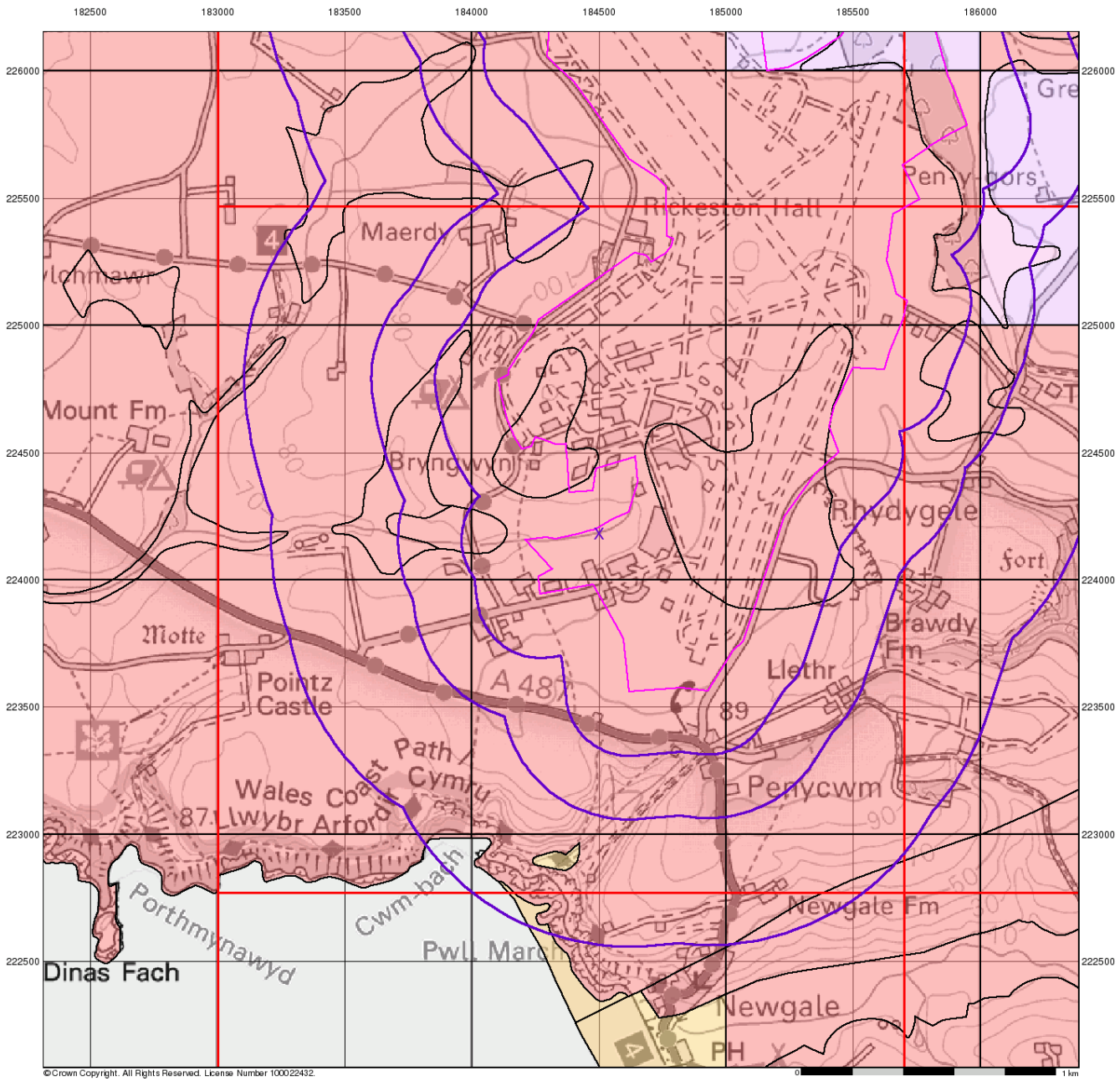
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Groundwater Vulnerability

General

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

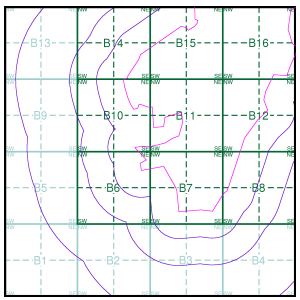
Agency and Hydrological

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 B



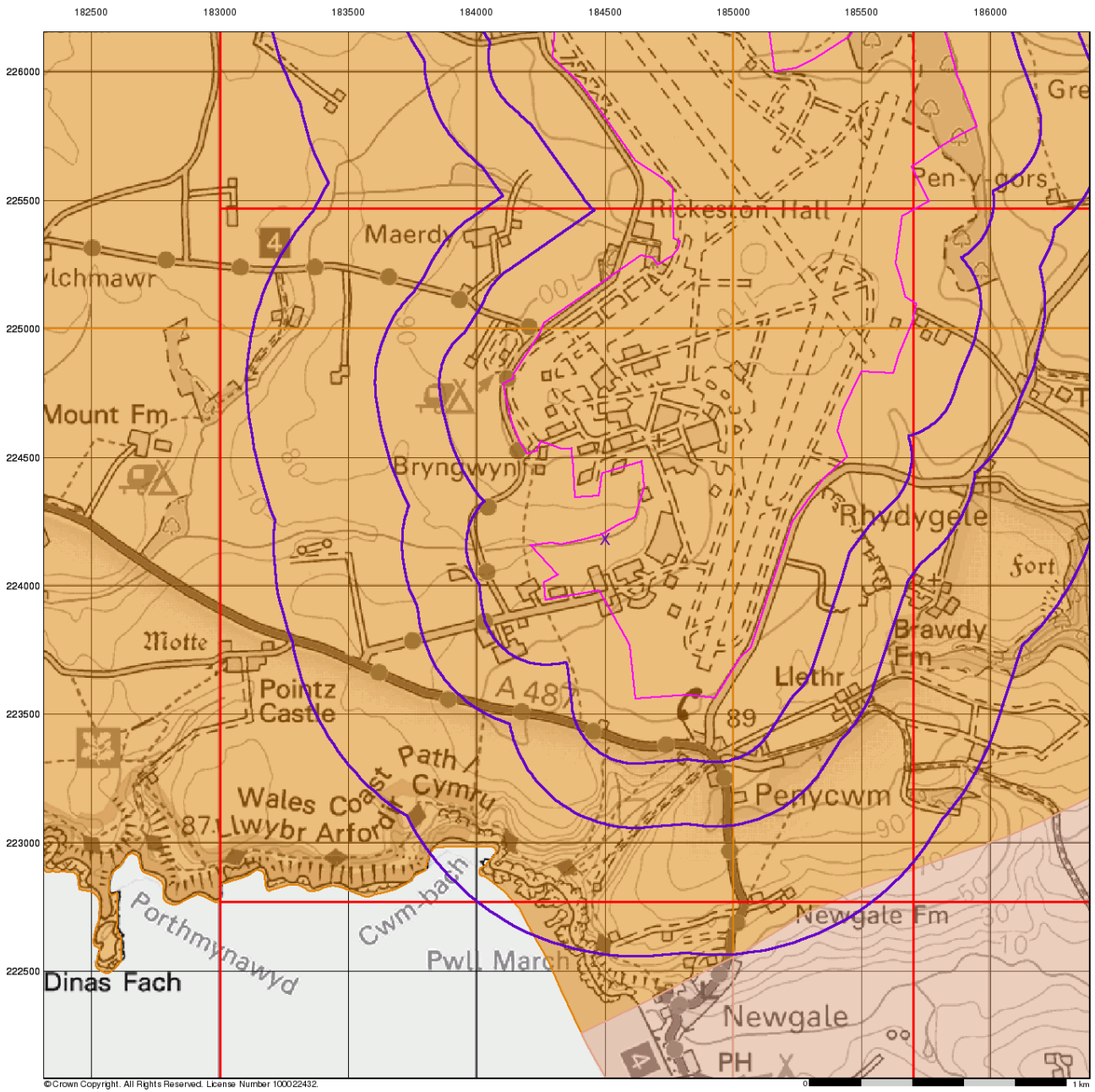
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

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Bedrock Aquifer Designation

General

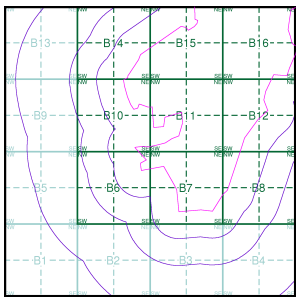
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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 B



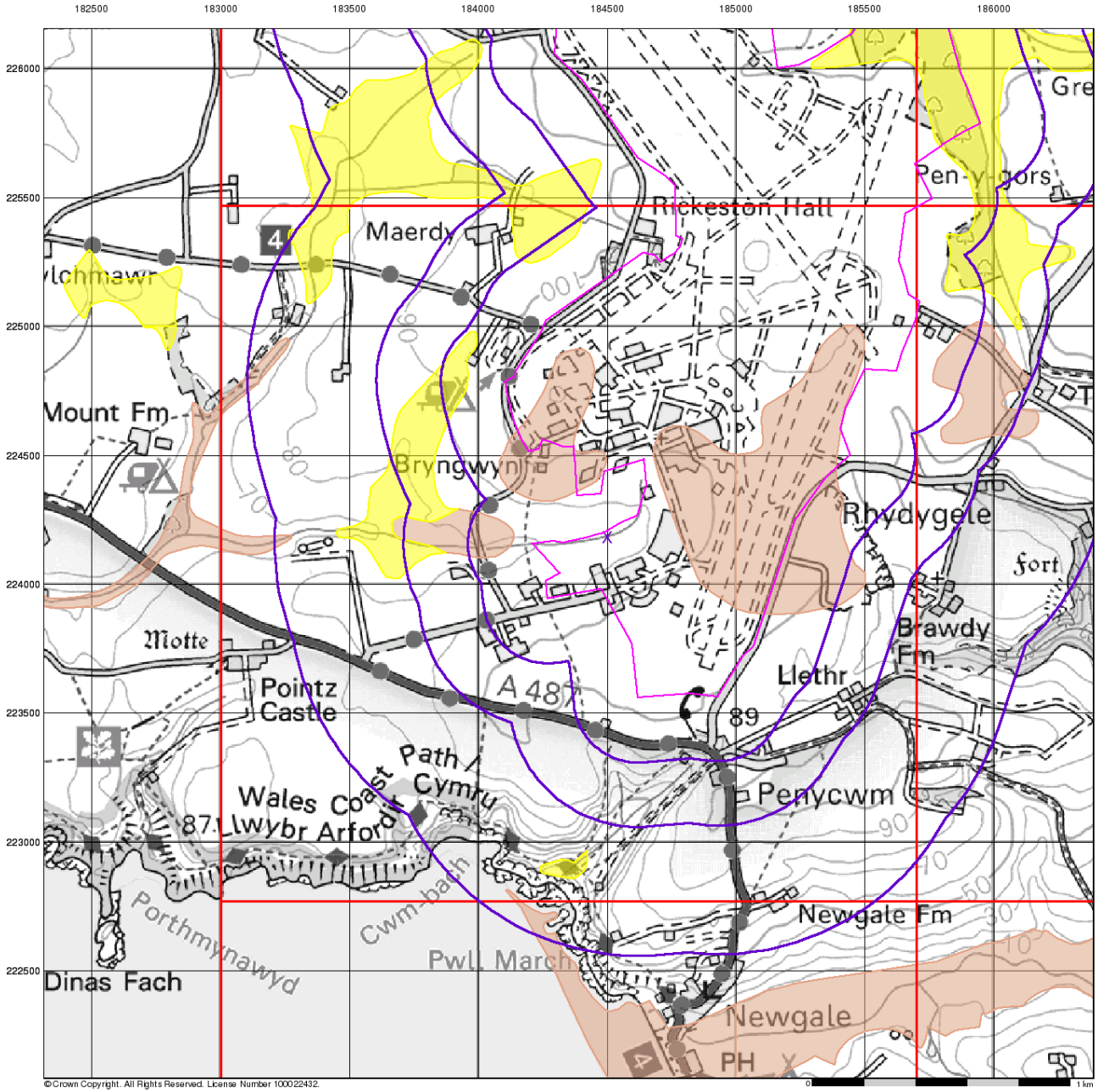
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Superficial Aquifer Designation

General

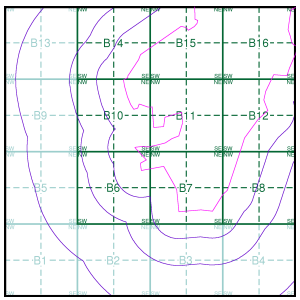
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice B



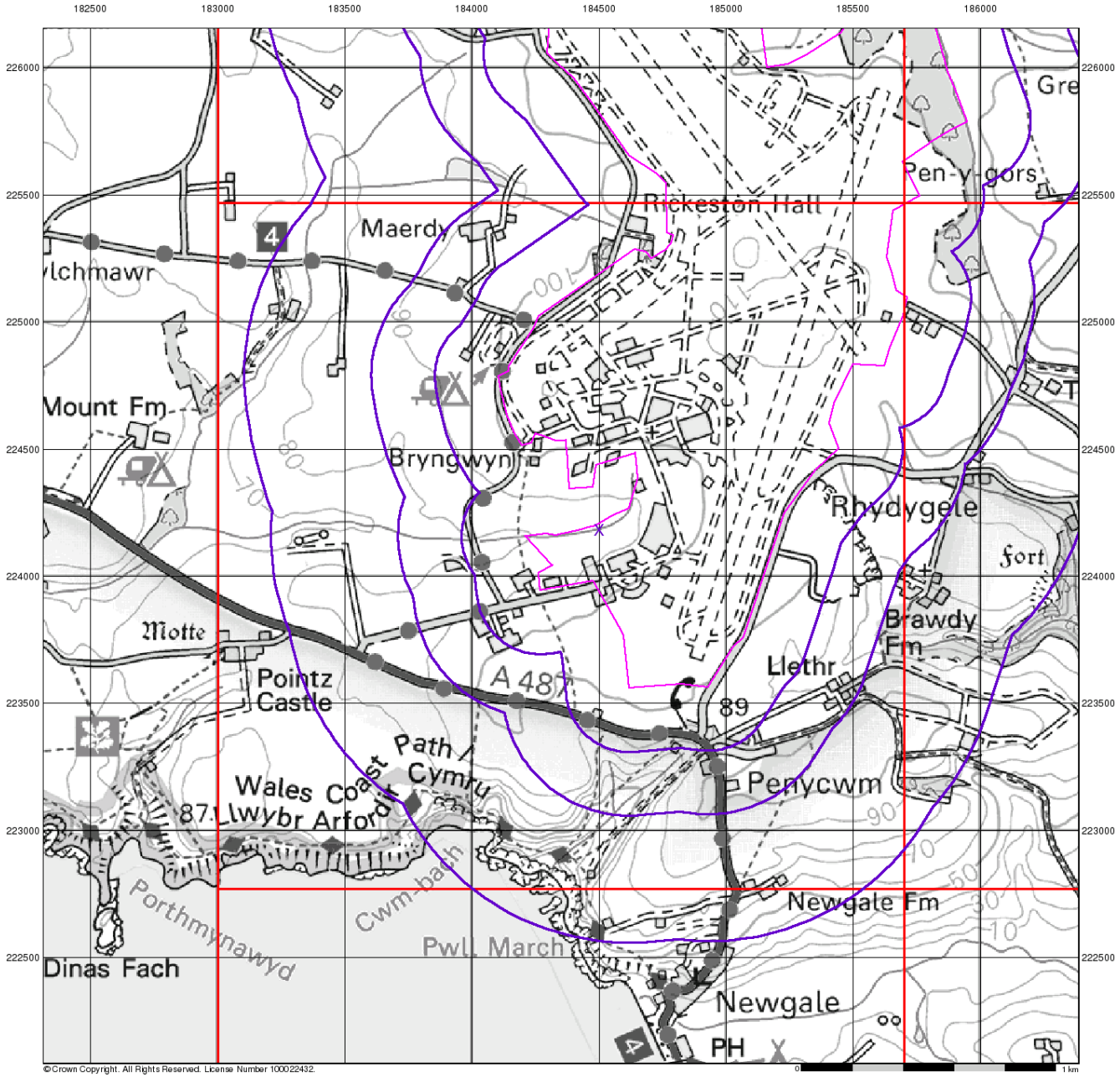
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Source Protection Zones

General

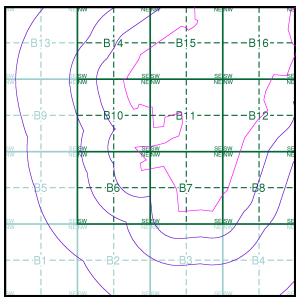
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Agency and Hydrological

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

Site Sensitivity Context Map - Slice B



Order Details

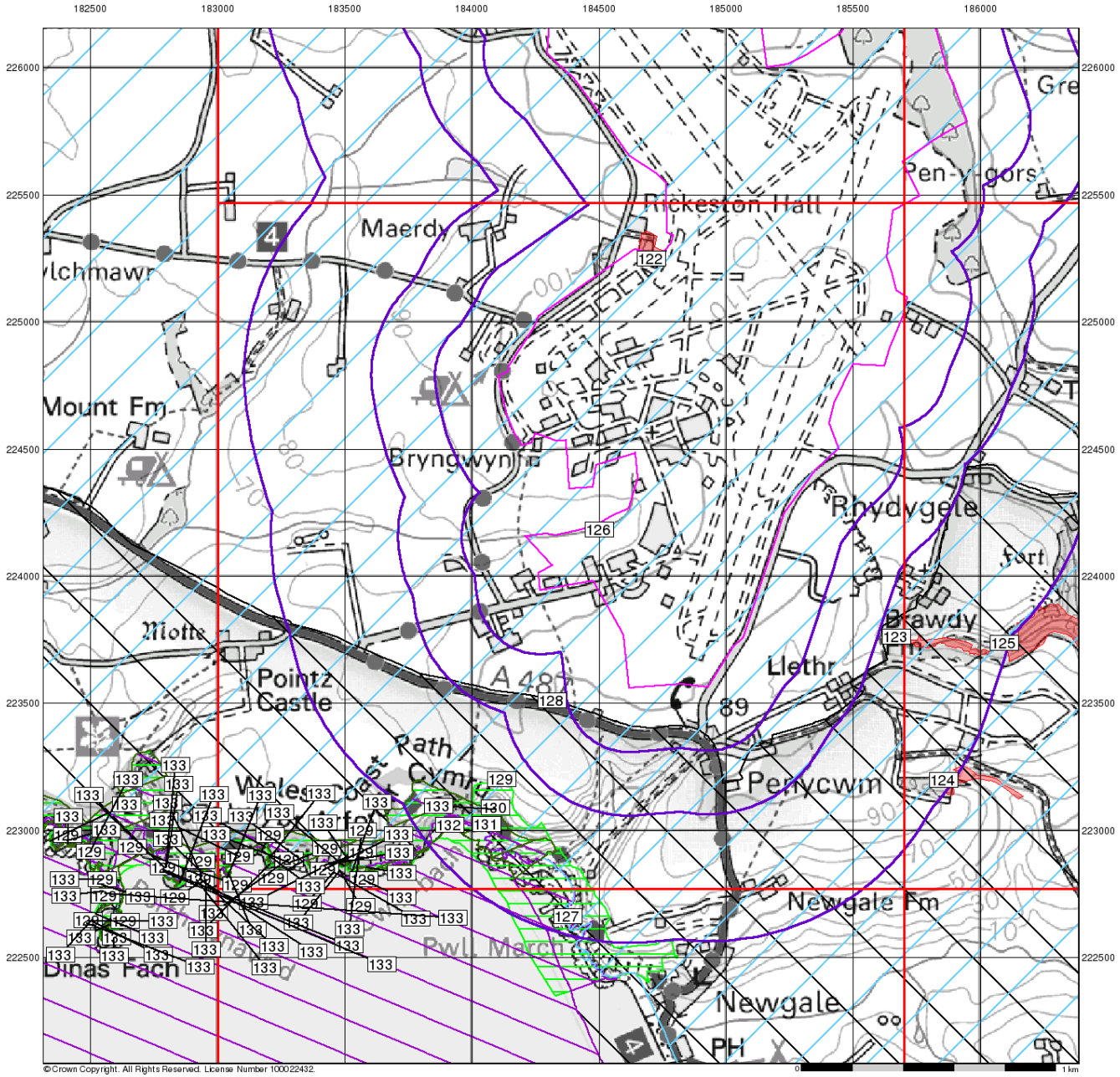
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Sensitive Land Uses

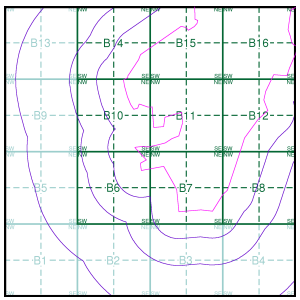
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice B



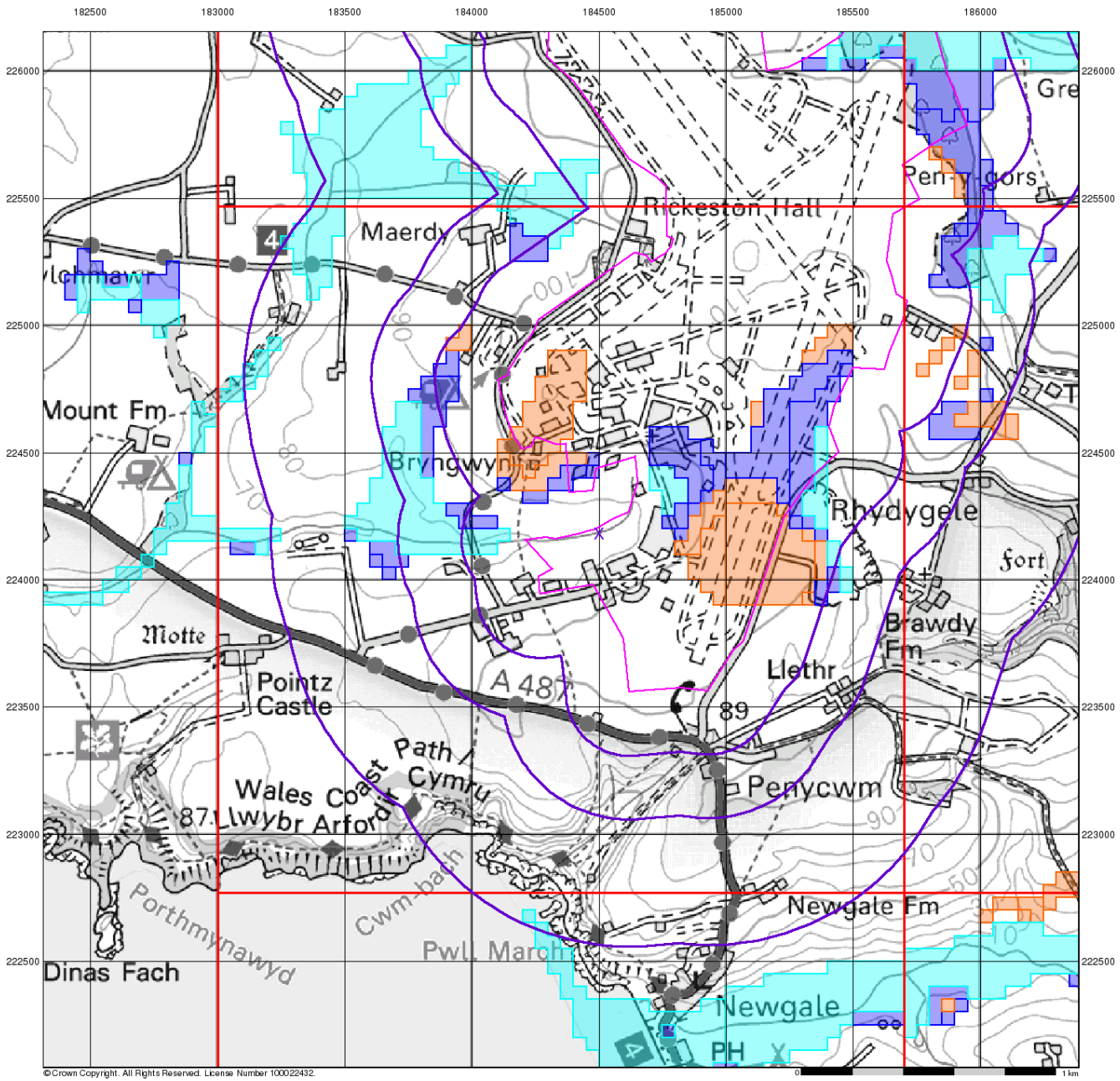
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BGS Flood GFS Data

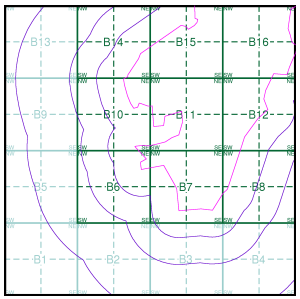
General

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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Envirocheck® Report:

Datasheet

Order Details:

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305022956_1_1

Customer Reference:
65208061

National Grid Reference:
184500, 224180

Slice:
B

Site Area (Ha):
308.46

Search Buffer (m):
1000

Site Details:

Cawdor site

Client Details:

Sweco Services UK Ltd
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

SWECO

Contents

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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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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		3	3	17
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9	Yes			
Pollution Incidents to Controlled Waters	pg 9		11	1	2
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 12	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 16	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 16	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				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 17	11	27	21	36

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 28	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 29	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 29	1	1	2	5
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	pg 30			1	
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 30	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 31	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 31	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 32	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 32		Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 33	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 33	Yes	n/a	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)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 34		5		
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 35	1			3
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 35	1			1
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks	pg 35		1		
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 35				1
Special Areas of Conservation	pg 35				3
Special Protection Areas	pg 36				1
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	B11SE (E)	0	1	184800 224184
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	185600 226050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B16SE (NE)	0	1	185450 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B7NE (E)	0	1	184850 224100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B11SE (E)	0	1	185000 224184
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (E)	0	1	184950 224350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B11SE (E)	0	1	184750 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (E)	0	1	184850 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B12SW (E)	0	1	185200 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B12SW (E)	0	1	185250 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (NE)	0	1	184700 224450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (E)	0	1	184900 224300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B10SE (NW)	0	1	184250 224400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SW (N)	0	1	184500 224400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SW (N)	0	1	184500 224450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	185750 225850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	185950 225400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B11SE (E)	0	1	184800 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B11SE (E)	0	1	185000 224300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B16SW (NE)	0	1	185300 224850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	185300 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	185450 226000

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	(NE)	0	1	185400 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (E)	0	1	184750 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B12NW (NE)	0	1	185100 224600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B10SE (NW)	0	1	184300 224350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B12SW (E)	0	1	185300 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SE (NE)	0	1	185000 224400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B11SW (NW)	0	1	184400 224350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	3	1	185800 225650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B12SW (E)	16	1	185250 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B12SW (E)	57	1	185300 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B10SE (W)	60	1	184150 224184
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	72	1	185850 225600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B12SW (E)	83	1	185300 224184
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B10SE (NW)	84	1	184300 224300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B14NE (N)	99	1	184350 225300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	103	1	185800 225150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	115	1	185750 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B10SE (W)	118	1	184100 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B10SE (NW)	123	1	184150 224350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B12SW (E)	126	1	185350 224184
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	138	1	185900 225500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	143	1	185800 224850

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	B12SW (E)	146	1	185350 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	148	1	186000 225550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B10SW (W)	154	1	183850 224400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B14SW (NW)	154	1	184000 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B14SW (NW)	155	1	183950 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B8NW (E)	160	1	185300 223950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B14NE (N)	166	1	184300 225250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	167	1	185900 225350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	169	1	185850 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	170	1	186050 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B8NW (E)	192	1	185350 224000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B12SE (E)	194	1	185400 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	203	1	185900 224950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	B8NE (E)	224	1	185400 224050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NE)	244	1	185950 225150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	251	1	185800 224550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	B8NE (E)	272	1	185450 224050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	274	1	185900 224750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NE)	281	1	185950 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	311	1	186000 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	330	1	185900 224600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	384	1	186000 224700

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	B6NW (W)	463	1	183750 224100
1	**Discharge Consents** Operator: William E L Harries Property Type: HOLIDAY ACCOM/CAMP SITE/CARAVAN SITE/HOTEL/HOSTEL Location: Septic Tanks @ Park Hill Van Park, Pen Y Cwm, Haverfordwest, Pembrokeshire, Sa62 6ls Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Yb3790hg Permit Version: 2 Effective Date: 1st April 2017 Issued Date: 26th January 2018 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	B14SW (NW)	198	2	183936 224890
1	**Discharge Consents** Operator: Mr William E L Harries Property Type: Other Tourist/Short Stay Accommadation Location: Septic Tanks @ Park Hill Van Park, Pen Y Cwm, Haverfordwest, Pembrokeshire, Sa62 6ls Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Epryb3790hg Permit Version: 1 Effective Date: 1st June 2016 Issued Date: 1st June 2016 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Not Supplied **Status:** **New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	B14SW (NW)	198	2	183936 224890
1	**Discharge Consents** Operator: William E L Harries Property Type: HOLIDAY ACCOM/CAMP SITE/CARAVAN SITE/HOTEL/HOSTEL Location: Septic Tanks @ Park Hill Van Park, Pen Y Cwm, Haverfordwest, Pembrokeshire, Sa62 6ls Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Yb3790hg Permit Version: 1 Effective Date: 1st June 2016 Issued Date: 1st June 2016 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Not Supplied **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	B14SW (NW)	198	2	183936 224890
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Penycwm Ps Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: BH0057004 Permit Version: 1 Effective Date: 29th October 1976 Issued Date: 29th October 1976 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Of Cwm Mawr Strea **Status:** **Effective** Positional Accuracy: Located by supplier to within 100m	B3NE (S)	273	2	184800 223300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Penycwm Ps Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bh0057004 Permit Version: 1 Effective Date: 29th October 1976 Issued Date: 29th October 1976 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Of Cwm Mawr Strea **Status: Effective** Positional Accuracy: Located by supplier to within 100m	B3NE (S)	273	2	184800 223300
3	**Discharge Consents** Operator: Carter D M & H M Property Type: Undefined Or Other Location: Old Barn Lwr. Llethr Penycwm Haverf, Penycwm Haverfordwest Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bn0192101 Permit Version: 1 Effective Date: 2nd May 1978 Issued Date: 2nd May 1978 Revocation Date: 16th January 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: To Land Nr. Brandy Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	B8SE (SE)	368	2	185400 223600
4	**Discharge Consents** Operator: 14th Signal Regiment (Ew) Property Type: Sewage Disposal Works - Water Company Location: Cawdor Barracks Brawdy Haverfordwe, Brawdy Haverfordwest Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP0239501 Permit Version: 2 Effective Date: 15th April 1998 Issued Date: 15th April 1998 Revocation Date: 1st February 2002 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Not Supplied Receiving Water: Brawdy Stream **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	B9SE (W)	773	2	183440 224230
4	**Discharge Consents** Operator: 14th Signal Regiment (Ew) Property Type: Sewage Disposal Works - Water Company Location: Cawdor Barracks Brawdy Haverfordwe, Brawdy Haverfordwest Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0239501 Permit Version: 1 Effective Date: 28th March 1995 Issued Date: 28th March 1995 Revocation Date: 14th April 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Not Supplied Receiving Water: Brawdy Stream **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	773	2	183440 224230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: 14th Signal Regiment (Ew) Property Type: Undefined Or Other Location: Cawdor Barracks Brawdy Haverfordwe, Brawdy Haverfordwest Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP026980101 Permit Version: 1 Effective Date: 18th May 1998 Issued Date: 18th May 1998 Revocation Date: 18th February 2002 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Brawdy Stream **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	B9SE (W)	802	2	183410 224220
4	**Discharge Consents** Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 5 Effective Date: 29th March 2022 Issued Date: 6th September 2022 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	**Discharge Consents** Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 5 Effective Date: 29th March 2022 Issued Date: 6th September 2022 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	**Discharge Consents** Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 4 Effective Date: 28th March 2022 Issued Date: 4th April 2022 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 4 Effective Date: 28th March 2022 Issued Date: 4th April 2022 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	**Discharge Consents** Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 3 Effective Date: 23rd March 2018 Issued Date: 23rd March 2018 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	**Discharge Consents** Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 3 Effective Date: 23rd March 2018 Issued Date: 23rd March 2018 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	**Discharge Consents** Operator: Kelda Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 2 Effective Date: 2nd February 2002 Issued Date: 1st February 2002 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Kelda Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0269801 Permit Version: 2 Effective Date: 2nd February 2002 Issued Date: 1st February 2002 Revocation Date: Not Supplied Discharge Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - NOT WATER COMPANY Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	**Discharge Consents** Operator: Kelda Water Services (Estates) Limited Property Type: Any Mod Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp026980101 Permit Version: 2 Effective Date: 2nd February 2002 Issued Date: 1st February 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Sewage Treatment Works Storm Overflow/Storm Tank - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
4	**Discharge Consents** Operator: Kelda Water Services (Estates) Limited Property Type: Any Mod Establishment Location: Cawdor Barracks Stw Brawdy, Haverfordwest, Pembrokeshire, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp026980101 Permit Version: 2 Effective Date: 2nd February 2002 Issued Date: 1st February 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Sewage Treatment Works Storm Overflow/Storm Tank - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	803	2	183410 224230
5	**Discharge Consents** Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, 14th Signal Regiment, Haverfordwest, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0239501 Permit Version: 7 Effective Date: 1st April 2022 Issued Date: 6th September 2022 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	800	2	183410 224160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, 14th Signal Regiment, Haverfordwest, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0239501 Permit Version: 6 Effective Date: 31st March 2022 Issued Date: 4th April 2022 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	800	2	183410 224160
5	**Discharge Consents** Operator: Ancala Water Services (Estates) Limited Property Type: MOD/Civil Establishment Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0239501 Permit Version: 5 Effective Date: 5th April 2018 Issued Date: 5th April 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	800	2	183410 224160
5	**Discharge Consents** Operator: Kelda Water Services (Estates) Limited Property Type: Not Supplied Location: Cawdor Barracks Stw, Brawdy, Haverfordwest, Sa62 6nn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0239501 Permit Version: 3 Effective Date: 2nd February 2002 Issued Date: 1st February 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Brawdy Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	B9SE (W)	800	2	183410 224160
	Nearest Surface Water Feature	B11SW (S)	0	-	184515 224151
6	**Pollution Incidents to Controlled Waters** Property Type: Airports/Aircraft Location: Garden Centre Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Accidental Spillage/Leakage Incident Date: 19th November 1991 Incident Reference: 2372 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	B11SW (NE)	39	3	184600 224345

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Pollution Incidents to Controlled Waters** Property Type: Airports/Aircraft Location: Airfield Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Accidental Spillage/Leakage Incident Date: 19th November 1991 Incident Reference: 2372 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	B11SW (NE)	40	3	184600 224350
7	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 9th February 1996 Incident Reference: 27317 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	B15NE (N)	67	3	184700 225400
7	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Diesel Tank Leaking Incident Date: 9th February 1996 Incident Reference: 27317 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	B15NE (N)	67	3	184700 225395
8	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Rickeston Mill Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 11th February 1996 Incident Reference: 27334 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	B15NW (N)	117	3	184600 225395
8	**Pollution Incidents to Controlled Waters** Property Type: Road Location: Rickeston Mill Authority: Environment Agency, Welsh Region Pollutant: Sewage Fungus Note: Not Supplied Incident Date: 11th February 1996 Incident Reference: 27334 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	B15NW (N)	121	3	184600 225400
9	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Other Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Blocked Sewer Incident Date: 5th November 1991 Incident Reference: 2354 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	B10SE (W)	118	3	184100 224200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Pollution Incidents to Controlled Waters** Property Type: Building Sites Location: Broady, Aerodrome Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 12th April 1996 Incident Reference: 28049 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	B15NW (N)	156	3	184610 225450
10	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Adjacent To The River, Near Pandy, Brawdy Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 12th April 1996 Incident Reference: 28049 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	B15NW (N)	156	3	184610 225445
11	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Pond Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 5th June 1996 Incident Reference: 28614 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	B3NE (S)	169	3	184750 223400
11	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: In Pond, Near Riverside Vet Surgery, Top Of Newgale Beach Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 5th June 1996 Incident Reference: 28614 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	B3NE (S)	174	3	184750 223395
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Penycwm, Harp Lane, ST DAVID'S Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 12th August 1996 Incident Reference: 29667 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	B3NE (S)	278	3	184800 223295
13	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: North End, Newgale, PENYCWM Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 17th December 1996 Incident Reference: 30669 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	B3SW (S)	559	3	184600 223000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Pollution Incidents to Controlled Waters** Property Type: Private Sewage (Non-PLC): Other Location: Below Brawdy Stream Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Emergency Overflow Incident Date: 28th October 1994 Incident Reference: 21557 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	B9SE (W)	811	3	183400 224200
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(N)	0	2	184501 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NE)	0	2	185309 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(N)	0	2	185000 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B15SW (N)	0	2	184501 225000

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: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B15SE (NE)	0	2	185000 225000
	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: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B7NW (S)	0	2	184501 224000
	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: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B7NE (SE)	0	2	185000 223908
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B11SW (W)	0	2	184501 224184

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: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B11NE (NE)	0	2	185000 224501
	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: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B12SE (E)	0	2	185405 224246
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B11SW (NW)	0	2	184409 224372
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B11SE (E)	0	2	184753 224272

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, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B11SE (E)	0	2	185000 224184
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B7NE (SE)	0	2	184870 224000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B7NE (E)	0	2	185000 224000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NE)	0	2	185298 226002

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, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NE)	0	2	185816 225140
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	B16SE (NE)	0	2	185421 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	B15SE (NE)	0	2	185000 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	B15SW (N)	0	2	184501 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	B11SE (E)	0	2	185000 224184
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	B11SW (W)	0	2	184501 224184
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(NE)	0	2	185816 225140
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B16SE (NE)	0	2	185421 225000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B11SE (E)	0	2	185000 224184
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B11SW (NW)	0	2	184409 224372
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B11SE (E)	0	2	184753 224272
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**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: St Davids Head and St Brides North Primacy: 1	B11SW (S)	0	4	184515 224151
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (SW)	0	4	184459 224143
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 218.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (W)	0	4	184413 224177
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (W)	0	4	184417 224178
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (W)	0	4	184421 224179
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 457.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (NW)	0	4	184495 224199
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11NW (NE)	0	4	184642 224489
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11NW (NE)	0	4	184641 224494
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11NW (NE)	0	4	184640 224504

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11NW (NE)	0	4	184642 224509
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B11SW (SW)	0	4	184463 224140
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 173.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B10SE (W)	9	4	184200 224158
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 170.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B10SE (W)	9	4	184200 224158
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 117.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B15NE (N)	32	4	184724 225297
29	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 49.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B15NW (N)	67	4	184667 225348
30	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 16.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B15NW (N)	74	4	184604 225350
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B15NW (N)	74	4	184604 225350
32	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 13.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B15NW (N)	75	4	184619 225357

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**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: St Davids Head and St Brides North Primacy: 2	B15NW (N)	89	4	184612 225370
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 403.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B15NW (N)	98	4	184598 225374
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B7SE (SE)	111	4	184945 223455
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 358.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B14SW (NW)	120	4	183992 224850
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 102.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	136	4	185206 223740
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 148.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NE (SE)	156	4	184934 223409
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B10SE (W)	172	4	184039 224134
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B10SE (W)	174	4	184037 224133
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 59.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	186	4	185263 223757

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 497.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B10SE (W)	187	4	184025 224126
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 95.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	204	4	185263 223697
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	222	4	185166 223524
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 69.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	225	4	185234 223607
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 108.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	227	4	185250 223623
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	227	4	185250 223623
48	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 21.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	236	4	185209 223562
49	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	237	4	185210 223567
50	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 10.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	238	4	185209 223562

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B8SW (SE)	246	4	185284 223640
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	246	4	185284 223640
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 59.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NE (S)	263	4	184797 223310
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NE (S)	268	4	184828 223306
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	284	4	185326 223639
56	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 39.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SW (SE)	295	4	185337 223637
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 288.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NE (S)	309	4	184781 223263
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	321	4	184524 223252
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 115.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	331	4	184531 223239

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	331	4	184515 223241
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 284.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SE (SE)	334	4	185376 223629
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 108.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	334	4	184546 223233
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 271.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B10NW (W)	401	4	183703 224498
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 271.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B10NW (W)	405	4	183697 224497
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	421	4	184544 223144
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	430	4	184573 223131
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	433	4	184557 223130
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 191.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8NE (E)	440	4	185597 223959

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 183.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3NW (S)	441	4	184554 223122
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 176.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B3NW (S)	441	4	184554 223122
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1002.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	(N)	448	4	184151 225539
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 238.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3SW (S)	473	4	184568 223088
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 279.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B9SE (W)	489	4	183673 224447
74	**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: St Davids Head and St Brides North Primacy: 1	B8SE (E)	501	4	185601 223775
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 950.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B8SE (E)	503	4	185604 223776
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 857.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B8SE (E)	503	4	185604 223776
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3SW (S)	593	4	184448 222991

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3SW (S)	597	4	184442 222988
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3SW (S)	613	4	184435 222974
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B9SE (W)	630	4	183584 224231
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B9SE (W)	635	4	183579 224231
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 707.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B9SE (W)	656	4	183557 224223
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B3SW (S)	660	4	184406 222934
84	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	671	4	185163 222935
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	673	4	185170 222935
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 96.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	678	4	185180 222934

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 17.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	724	4	185274 222927
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13SE (NW)	728	4	183460 225125
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 80.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	734	4	183469 225154
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	740	4	185286 222915
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 99.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	743	4	183449 225138
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	744	4	185289 222913
93	**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: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	767	4	185295 222890
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 134.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B4SW (SE)	773	4	185301 222886
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 95.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13SE (NW)	794	4	183351 225042

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 175.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13SE (NW)	798	4	183370 225099
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13SW (NW)	809	4	183328 225029
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 612.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13SW (NW)	811	4	183318 225004
99	**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: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	884	4	183362 225267
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	884	4	183362 225267
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	885	4	183361 225268
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	888	4	183358 225267
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 93.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	893	4	183357 225274
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 175.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B2NW (SW)	894	4	183798 223177

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 7.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	932	4	183373 225365
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 200.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B13NE (NW)	936	4	183374 225372
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B2SW (SW)	966	4	183834 222996
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 231.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	B1SE (SW)	991	4	183664 223105
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 190.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	B13NW (NW)	999	4	183316 225399

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Pembrokeshire County Council - Has supplied landfill data		0	5	184501 224184

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Cambrian Rocks (Undifferentiated)	B7NW (SE)	0	1	184609 223932
	BGS 1:625,000 Solid Geology Description: Unnamed Extrusive Rocks, Neoproterozoic	B7NW (SE)	0	1	184672 223958
	BGS 1:625,000 Solid Geology Description: Upper Cambrian, Including Tremadoc	B11SW (W)	0	1	184501 224184
110	**BGS Recorded Mineral Sites** Site Name: Rickeston Location: Llandeloy, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89683 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Ordovician Geology: Unnamed Igneous Intrusion, Ordovician Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	B16NW (NE)	0	1	185137 225330
111	**BGS Recorded Mineral Sites** Site Name: Brawdy Farm Sandpit Location: Penycwm, Brawdy, Haverfordwest, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 3748 Type: Opencast **Status: Ceased** Operator: Mason Brothers Quarry Products Ltd. Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	B12SE (E)	177	1	185395 224175
112	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Cwm Location: Penycwm, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89867 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: St Non'S Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B3NE (S)	305	1	184718 223261
113	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Cwm Sand Pit Location: Penycwm, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89868 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: St Non'S Sandstone Formation Commodity: Sand Positional Accuracy: Located by supplier to within 10m	B6SE (S)	330	1	184308 223449
114	**BGS Recorded Mineral Sites** Site Name: Newgale Farm Location: Newgale, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89870 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Menevian Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	B4SW (SE)	788	1	185203 222825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	**BGS Recorded Mineral Sites** Site Name: Tal-Y-Bont Location: Bryngwyn, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89857 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B13SE (NW)	791	1	183350 225024
116	**BGS Recorded Mineral Sites** Site Name: Tal-Y-Bont Location: Bryngwyn, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89858 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B13SW (NW)	838	1	183318 225077
117	**BGS Recorded Mineral Sites** Site Name: Ffynnon Ddewi-Fach Location: Bryngwyn, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89695 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B13NW (NW)	915	1	183309 225238
118	**BGS Recorded Mineral Sites** Site Name: Cwm Bach Location: Penycwm, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89869 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Neoproterozoic 3 (Late Precambrian) Geology: Ramsey Sound Group Commodity: Igneous and Metamorphic Rock Positional Accuracy: Located by supplier to within 10m	B2SW (SW)	978	1	183757 223097
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Man-Made Mining Cavities Easting: 184800 Northing: 223100 Distance: 473 Quadrant Reference: B3 Quadrant Reference: SE Bearing Ref: S Cavity Type: Shaft (Copper) Commodity: Copper Solid Geology Detail: No Details Superficial Geology Detail: No Details	B3SE (S)	473	7	184800 223100
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7SW (S)	0	1	184561 223557
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B16NW (NE)	0	1	185268 225457
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15NE (NE)	0	1	185000 225297
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15NE (NE)	0	1	185004 225288

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7SE (SE)	18	1	185000 223644
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B12SE (E)	79	1	185405 224246
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SW (NW)	0	1	184409 224372
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B16SE (NE)	0	1	185421 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	184753 224272
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7NE (SE)	0	1	185000 223908
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11NE (NE)	0	1	185000 224501
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B10SE (W)	73	1	184140 224196
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B14NE (N)	129	1	184221 225249
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SW (N)	0	1	184501 225000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SE (E)	0	1	185000 224184
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B15SE (NE)	0	1	185000 225000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B11SW (W)	0	1	184501 224184
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B14NE (N)	129	1	184221 225249
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B10SW (W)	143	1	183922 224290
	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	B7NW (SE)	0	1	184600 223950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	B7NE (E)	0	1	185000 224100
	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	B11SW (W)	0	1	184501 224184
	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	B11SE (E)	0	1	185000 224184
	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	B15SW (N)	0	1	184501 225000
	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	B15SE (NE)	0	1	185000 225000
	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	B7NW (SE)	0	1	184600 223950
	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	B7NE (E)	0	1	185000 224100
	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	B11SW (W)	0	1	184501 224184
	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	B11SE (E)	0	1	185000 224184
	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	B15SW (N)	0	1	184501 225000
	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	B15SE (NE)	0	1	185000 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	**Contemporary Trade Directory Entries** Name: Cambrian Bears Ltd Location: Roch House, Brawdy Business Park, Brawdy, Haverfordwest, Dyfed, SA62 6NP Classification: Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B6NE (SW)	165	-	184128 223861
119	**Contemporary Trade Directory Entries** Name: Gengard Location: Newgale House, Brawdy Business Park, Brawdy, Haverfordwest, Dyfed, SA62 6NP Classification: Lawnmowers & Garden Machinery - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B6NE (SW)	199	-	184093 223854
119	**Contemporary Trade Directory Entries** Name: Blindings Ltd Location: 1, Solva House, Brawdy Business Park, Brawdy, Haverfordwest, Dyfed, SA62 6NP Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B6NE (SW)	230	-	184059 223852
120	**Contemporary Trade Directory Entries** Name: Concept Foods Location: 3,Brawdy Business Pk, Brawdy, Haverfordwest, Dyfed, SA62 6NP Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	B6NE (SW)	167	-	184150 223827
121	**Contemporary Trade Directory Entries** Name: Period Oakdoors Ltd Location: 3, Maritime House, Brawdy Business Park, Brawdy, Haverfordwest, Dyfed, SA62 6NP Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B6NE (SW)	229	-	184098 223793

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	**Ancient Woodland** Name: Not Supplied Reference: 4751 Area(m²): 6110.46 Type: Restored Ancient Woodland Site	B15NE (N)	0	2	184706 225249
123	**Ancient Woodland** Name: Not Supplied Reference: 4712 Area(m²): 8596.98 Type: Ancient and Semi-Natural Woodland	B8SE (E)	570	2	185669 223762
124	**Ancient Woodland** Name: Not Supplied Reference: 4710 Area(m²): 8906.03 Type: Ancient and Semi-Natural Woodland	(SE)	967	2	185854 223196
125	**Ancient Woodland** Name: Not Supplied Reference: 4713 Area(m²): 119967.99 Type: Ancient and Semi-Natural Woodland	(E)	979	2	186095 223736
126	**Environmentally Sensitive Areas** Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 1187932672 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	B11SW (W)	0	8	184501 224184
127	**Environmentally Sensitive Areas** Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 484.375 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	(S)	931	8	184376 222660
128	**National Parks** Name: Pembrokeshire Coast Multiple Area: Y Area (m2): 187013417.05 Source: Natural Resources Wales **Status: Fully Designated - designated as a National Park** Designation Date: 31st December 1951	B6SE (S)	140	2	184315 223510
129	**Sites of Special Scientific Interest** Name: St. Davids Peninsula Coast Multiple Areas: Y Total Area (m2): 6858510.94 Source: Natural Resources Wales Reference: 108832wtj Designation Details: Mixed Biological And Geological Designation Date: 1st January 1954 Date Type: Notified	B2NE (S)	597	2	184116 223201
130	**Special Areas of Conservation** Name: St Davids / Ty Ddewi Multiple Areas: Y Total Area (m2): 9398841.84 Source: Natural Resources Wales Reference: UK0013045 **Status: Designated**	B2SE (S)	674	2	184091 223083
131	**Special Areas of Conservation** Name: Pembrokeshire Marine / Sir Benfro Forol Multiple Areas: Y Total Area (m2): 1380663657.51 Source: Natural Resources Wales Reference: Uk0013116 **Status: Designated**	B2SE (S)	746	2	184057 223024
132	**Special Areas of Conservation** Name: West Wales Marine / Gorllewin Cymru Forol Multiple Areas: Y Total Area (m2): 7377173853.81 Source: Natural Resources Wales Reference: UK0030397 **Status: Designated**	B2SW (SW)	832	2	183912 223019

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	**Special Protection Areas** Name: Ramsey And St Davids Peninsula Coast Multiple Areas: Y Total Area (m2): 8462392.96 Source: Natural Resources Wales Reference: Uk9014062 Designation Date: 24th July 1996	B2SE (S)	674	2	184091 223083

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	June 2020	Annually
Pembrokeshire County Council - Public Protection Division	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	October 2022	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	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Local Authority Pollution Prevention and Controls		
Pembrokeshire County Council - Environmental Health Department	November 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Nearest Surface Water Feature		
Ordnance Survey	October 2022	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
Substantiated Pollution Incident Register		
Environment Agency Wales - South West Area	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Abstractions		
Environment Agency - Welsh Region	October 2022	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	Quarterly
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences		
Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas		
Natural Resources Wales	August 2019	Quarterly
Flood Defences		
Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines		
Ordnance Survey	October 2022	Quarterly
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	As notified
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	July 2019	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Natural Resources Wales	October 2021	Quarterly
Environment Agency Wales - South West Area	October 2022	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency Wales - South West Area	July 2021	Quarterly
Natural Resources Wales	July 2022	Quarterly
Local Authority Landfill Coverage		
Pembrokeshire County Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Pembrokeshire County Council - Environmental Health Department	October 2018	
Registered Landfill Sites		
Environment Agency Wales - South West Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - South West Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - South West Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Variable
Pembrokeshire County Council - Planning Department	October 2015	Variable
Planning Hazardous Substance Consents		
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Variable
Pembrokeshire County Council - Planning Department	October 2015	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	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	March 2014	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	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt		
Pembrokeshire Coast National Park Authority - Development Control	July 2022	Quarterly
Pembrokeshire County Council	July 2022	Quarterly
Areas of Unadopted Green Belt		
Pembrokeshire Coast National Park Authority - Development Control	July 2022	Quarterly
Pembrokeshire County Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Pembrokeshire County Council	August 2018	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves		
Natural Resources Wales	February 2022	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	July 2019	Bi-Annually
Ramsar Sites		
Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2018	Bi-Annually

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	

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**Pembrokeshire County Council - Environmental Health Department** Public Protection Division, Pembrokeshire County Council, County Hall, Haverfordwest, Pembrokeshire, SA61 1TP	Telephone: 01437 764551 Fax: 01437 775838 Website: www.pembrokeshire.gov.uk
6	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	**Stantec UK Ltd** Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
8	**The National Assembly for Wales - GI Services (Department of Planning & Countryside)** Yr Hen Ysgol Gymraeg, Alexandria Road, Aberystwyth, Ceredigion, SY23 1LD	Telephone: 02920 825111 Website: www.wales.gov.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

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

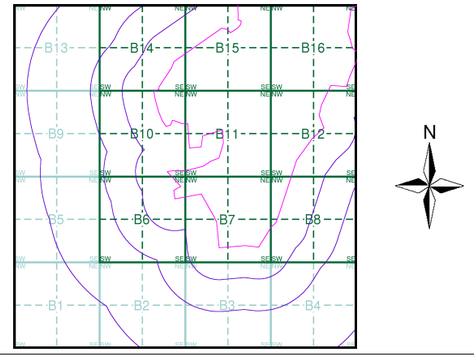
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1888	2
Pembrokeshire	1:10,560	1908	3
Pembrokeshire	1:10,560	1953	4
Ordnance Survey Plan	1:10,000	1964	5
Ordnance Survey Plan	1:10,000	1979	6
Ordnance Survey Plan	1:10,000	1980	7
10K Raster Mapping	1:10,000	2000	8
Street View	Variable		9

Historical Map - Slice B



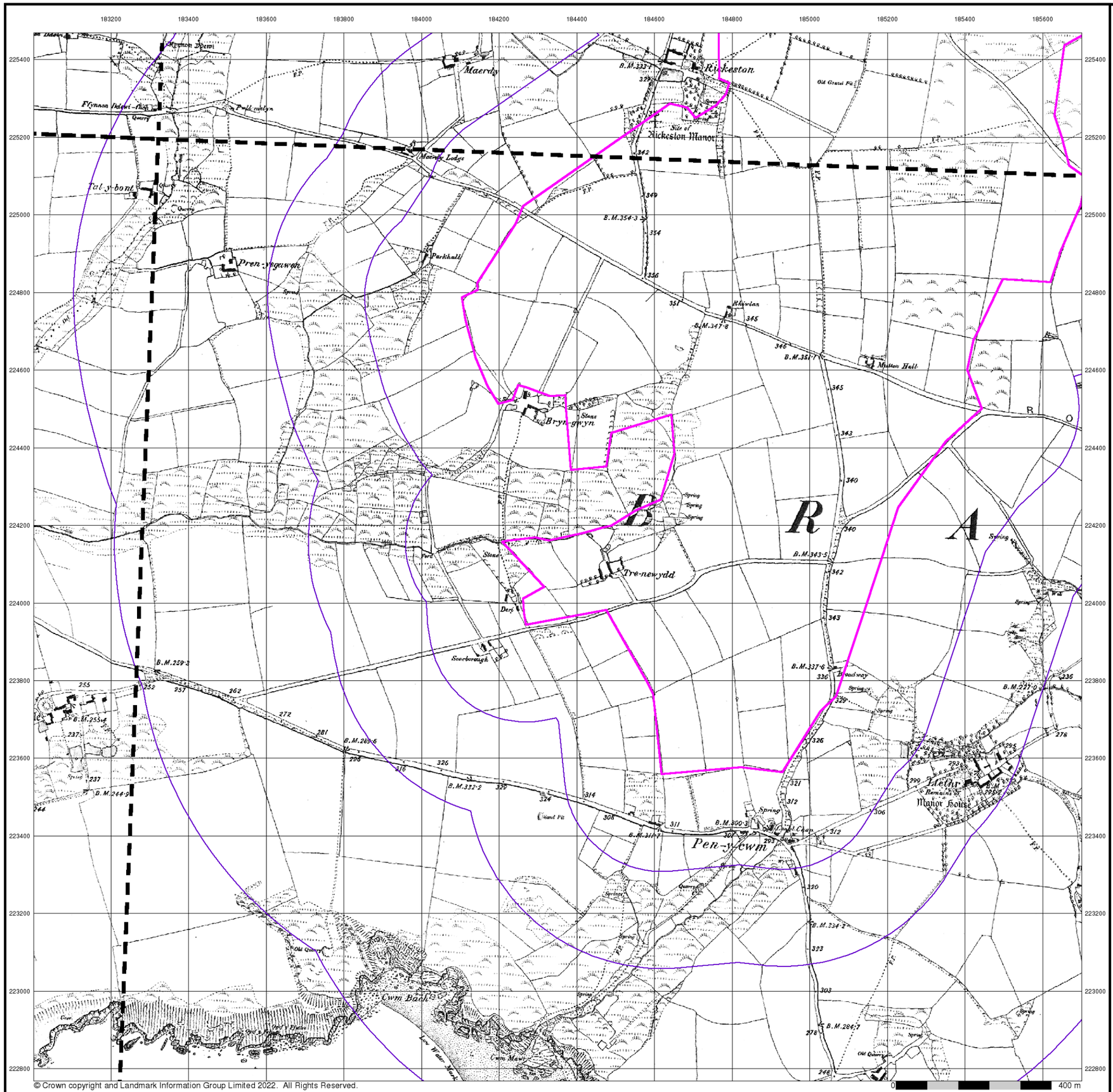
Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site

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SWECO

Pembrokeshire

Published 1888

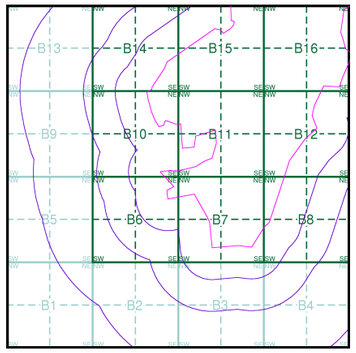
Source map scale - 1:10,560

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)

015SW 1888 1:10,560	015SE 1888 1:10,560
021NW 1888 1:10,560	021NE 1888 1:10,560

Historical Map - Slice B



Order Details

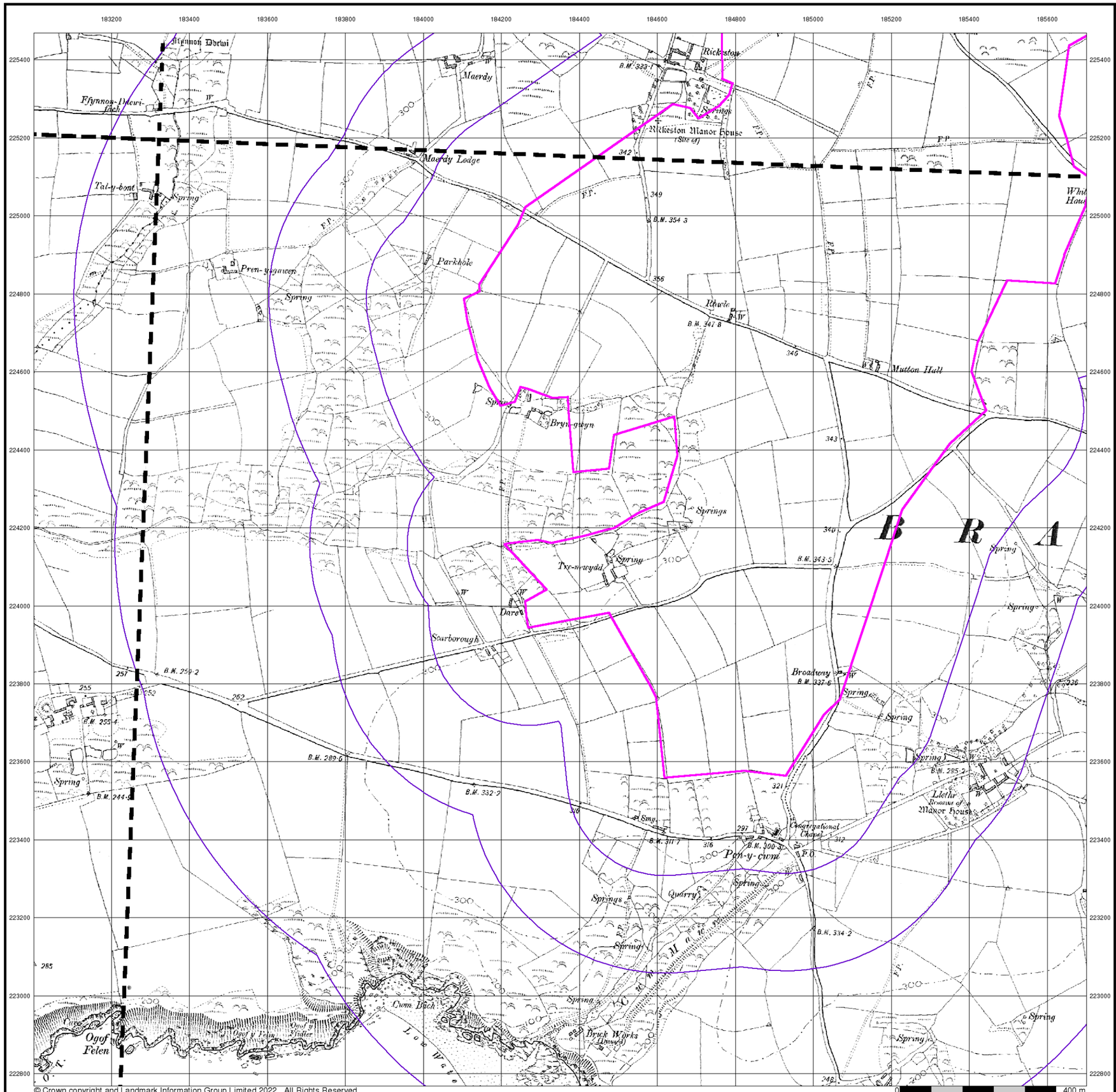
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

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Pembrokeshire

Published 1908

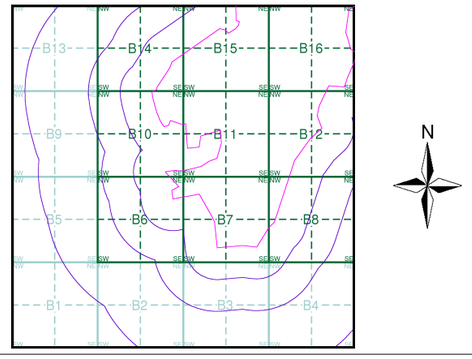
Source map scale - 1:10,560

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)

015SW 1908 1:10,560	015SE 1908 1:10,560
021NW 1908 1:10,560	021NE 1908 1:10,560

Historical Map - Slice B



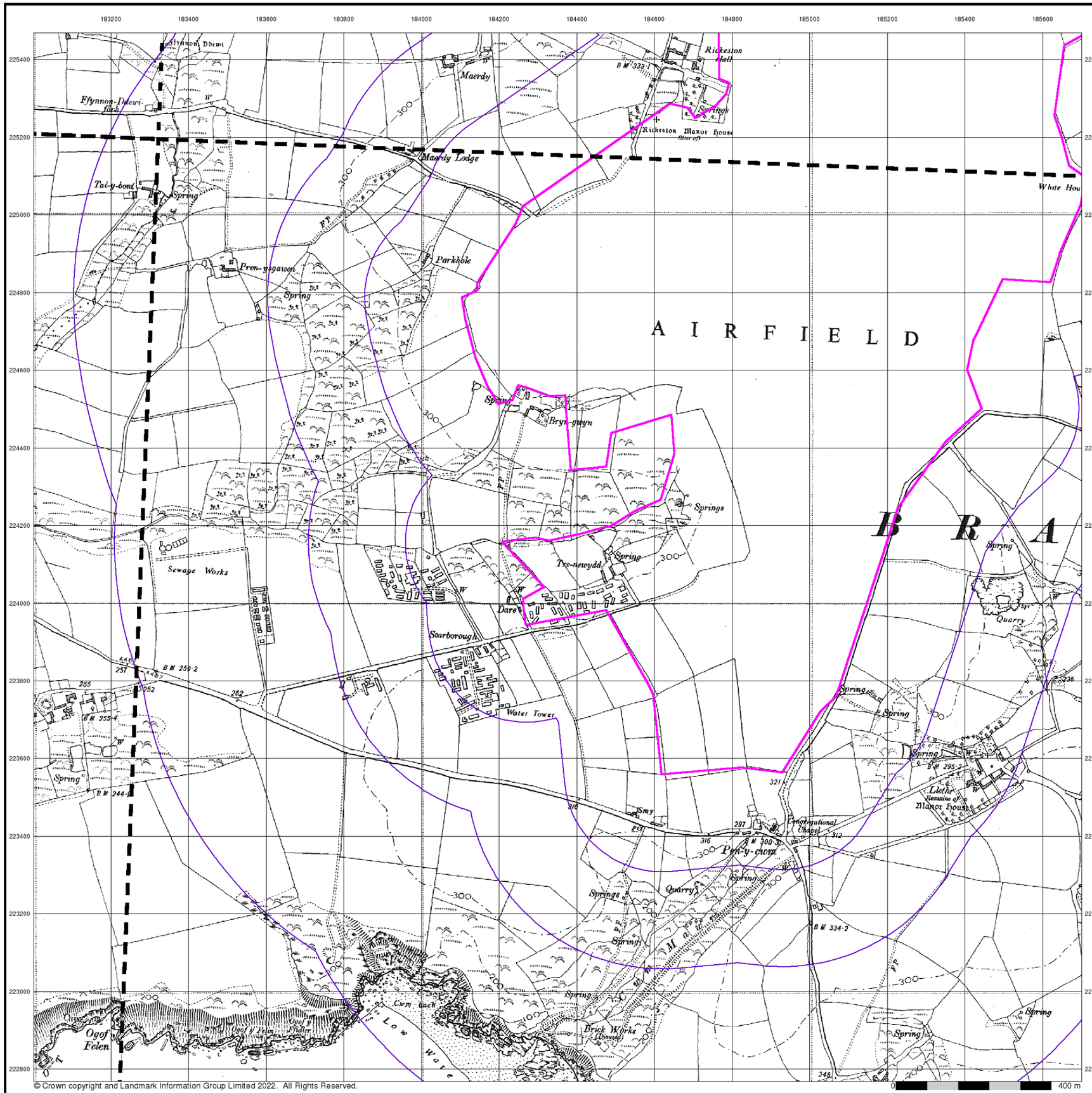
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

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SWECO

Pembrokeshire

Published 1953

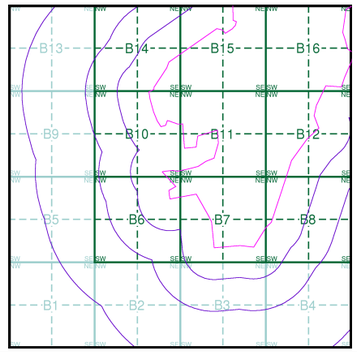
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

015SW 1953 1:10,560	015SE 1953 1:10,560
021NW 1953 1:10,560	021NE 1953 1:10,560

Historical Map - Slice B



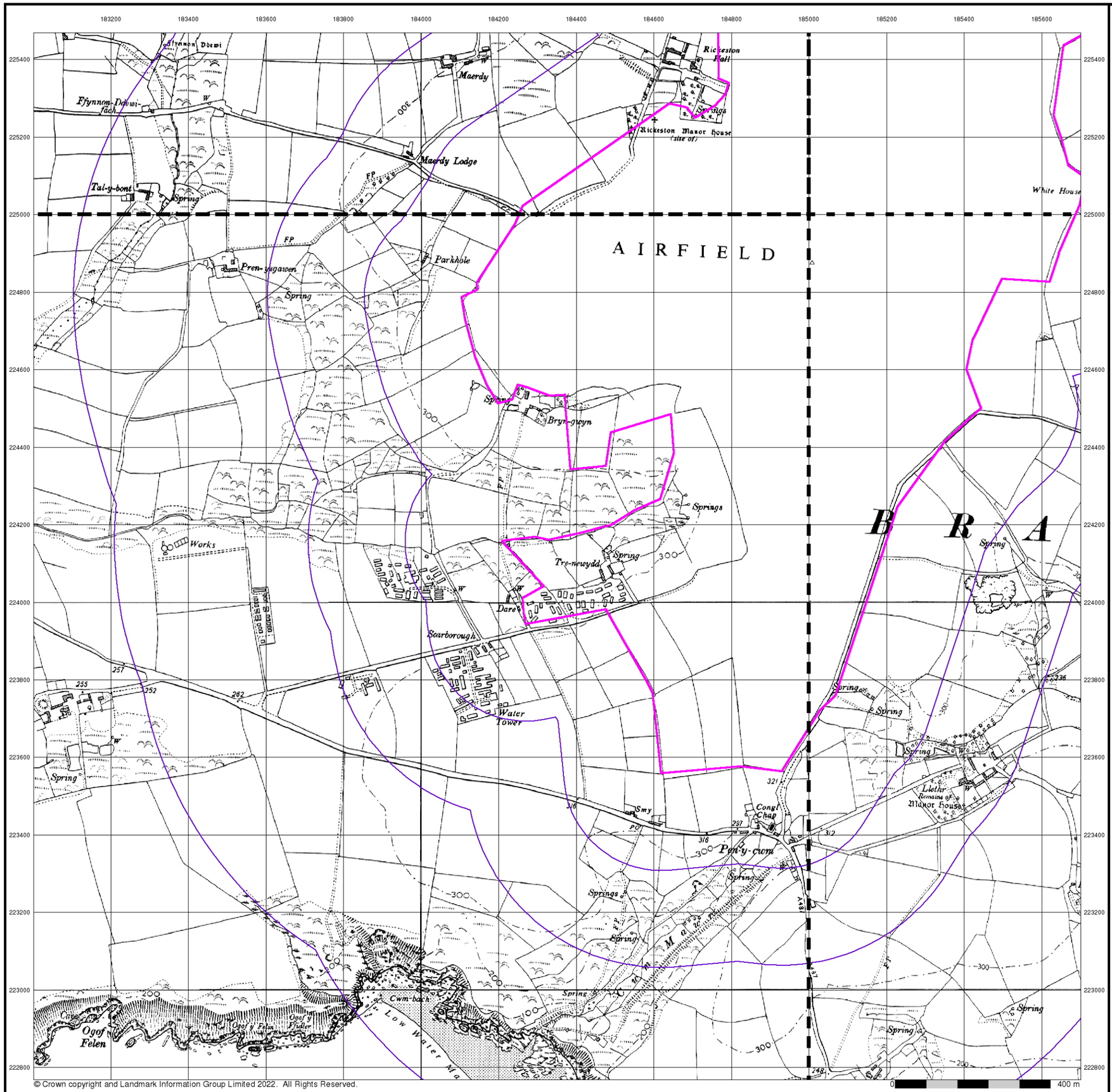
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

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0 400 m

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Ordnance Survey Plan

Published 1964

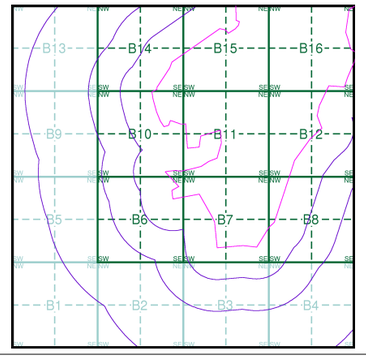
Source map scale - 1:10,000

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)

SM82NW 1964 1:10,560	SM82NE 1964 1:10,560
SM82SW 1964 1:10,560	SM82SE 1964 1:10,560

Historical Map - Slice B



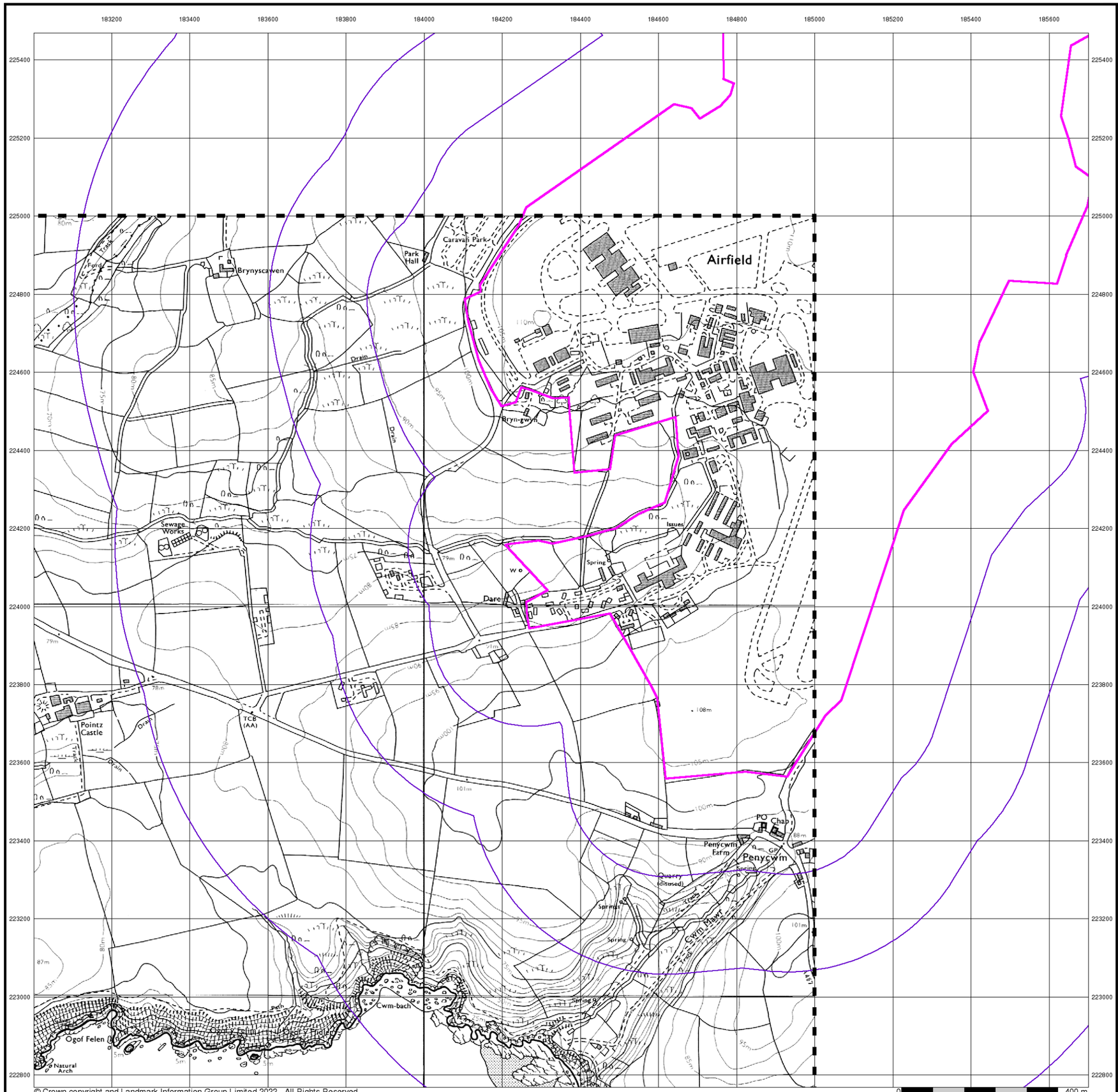
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

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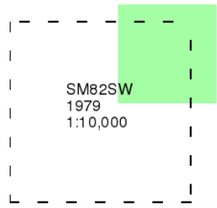
Ordnance Survey Plan

Published 1979

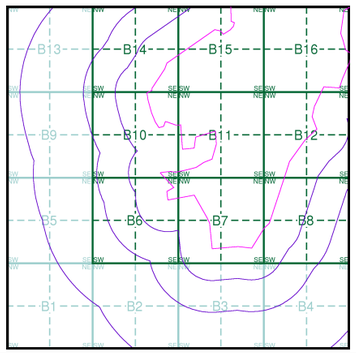
Source map scale - 1:10,000

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:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

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SWECO

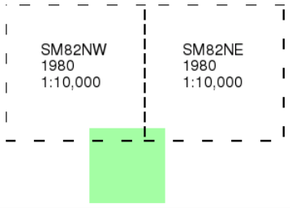
Ordnance Survey Plan

Published 1980

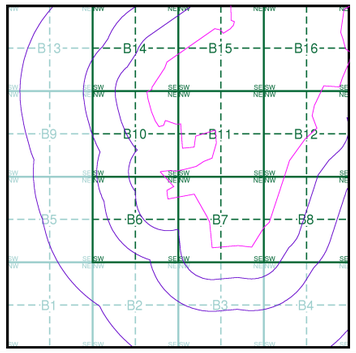
Source map scale - 1:10,000

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



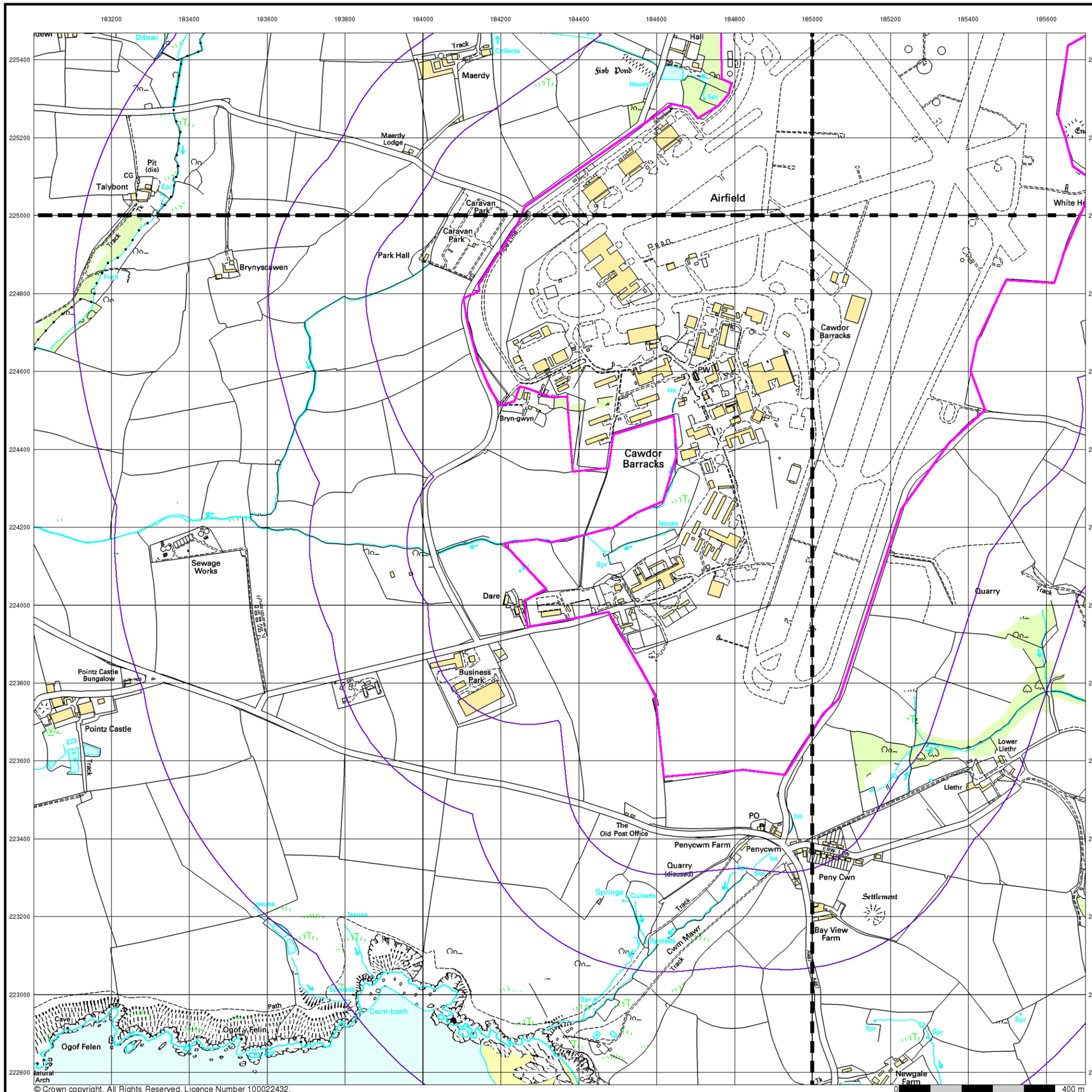
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

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10k Raster Mapping

Published 2000

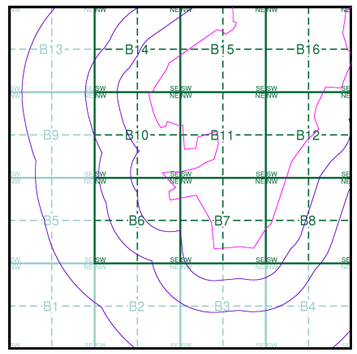
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SM82NW 2000 1:10,000	SM82NE 2000 1:10,000
SM82SW 2000 1:10,000	SM82SE 2000 1:10,000

Historical Map - Slice B



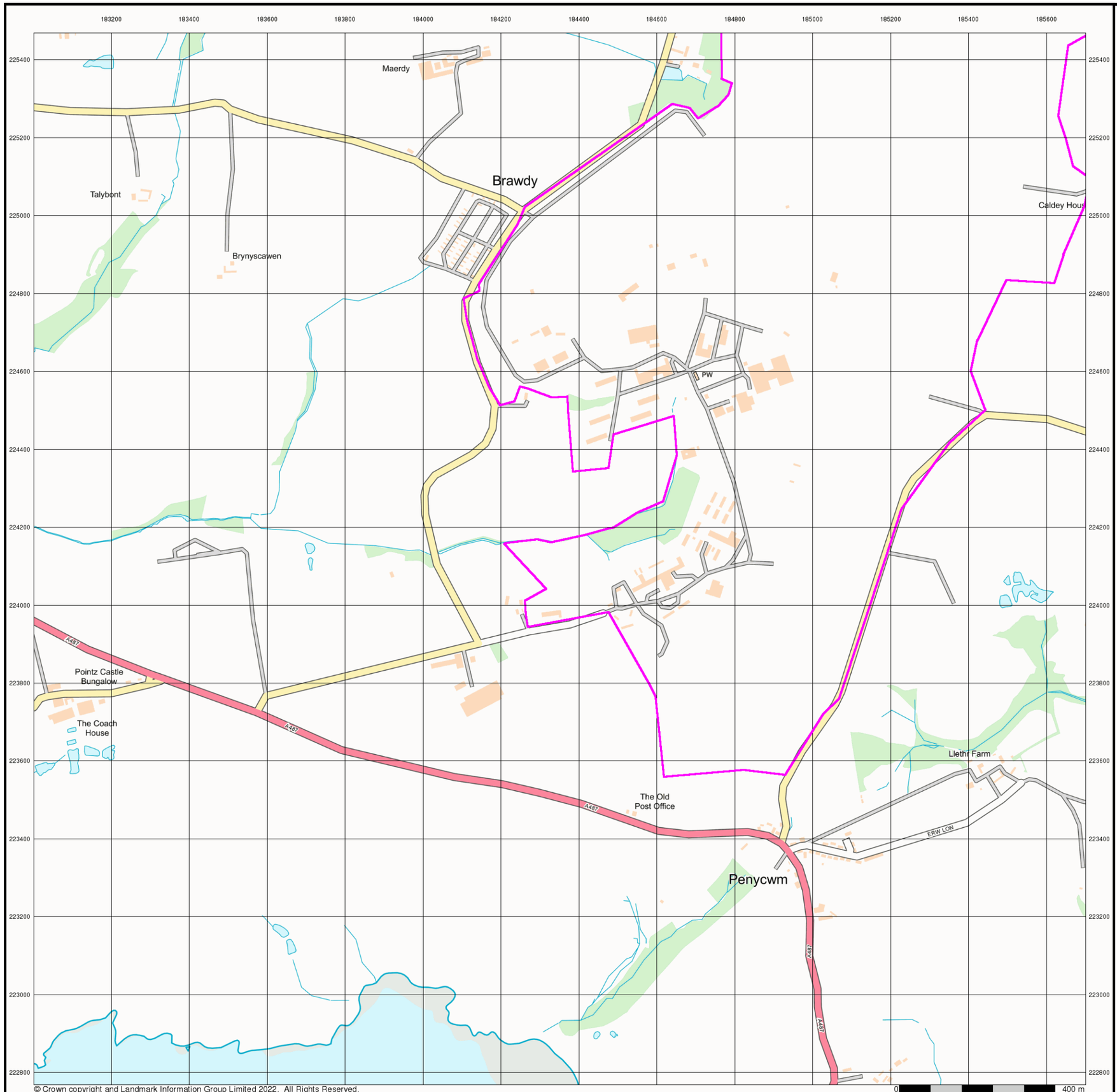
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

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Street View

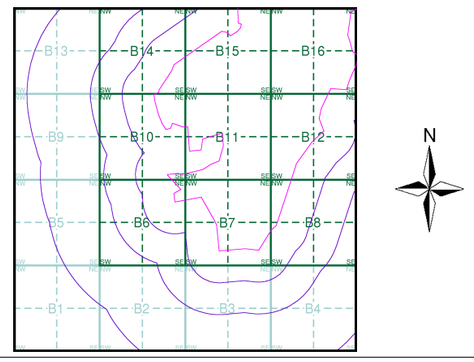
Published 2022

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice B



Order Details

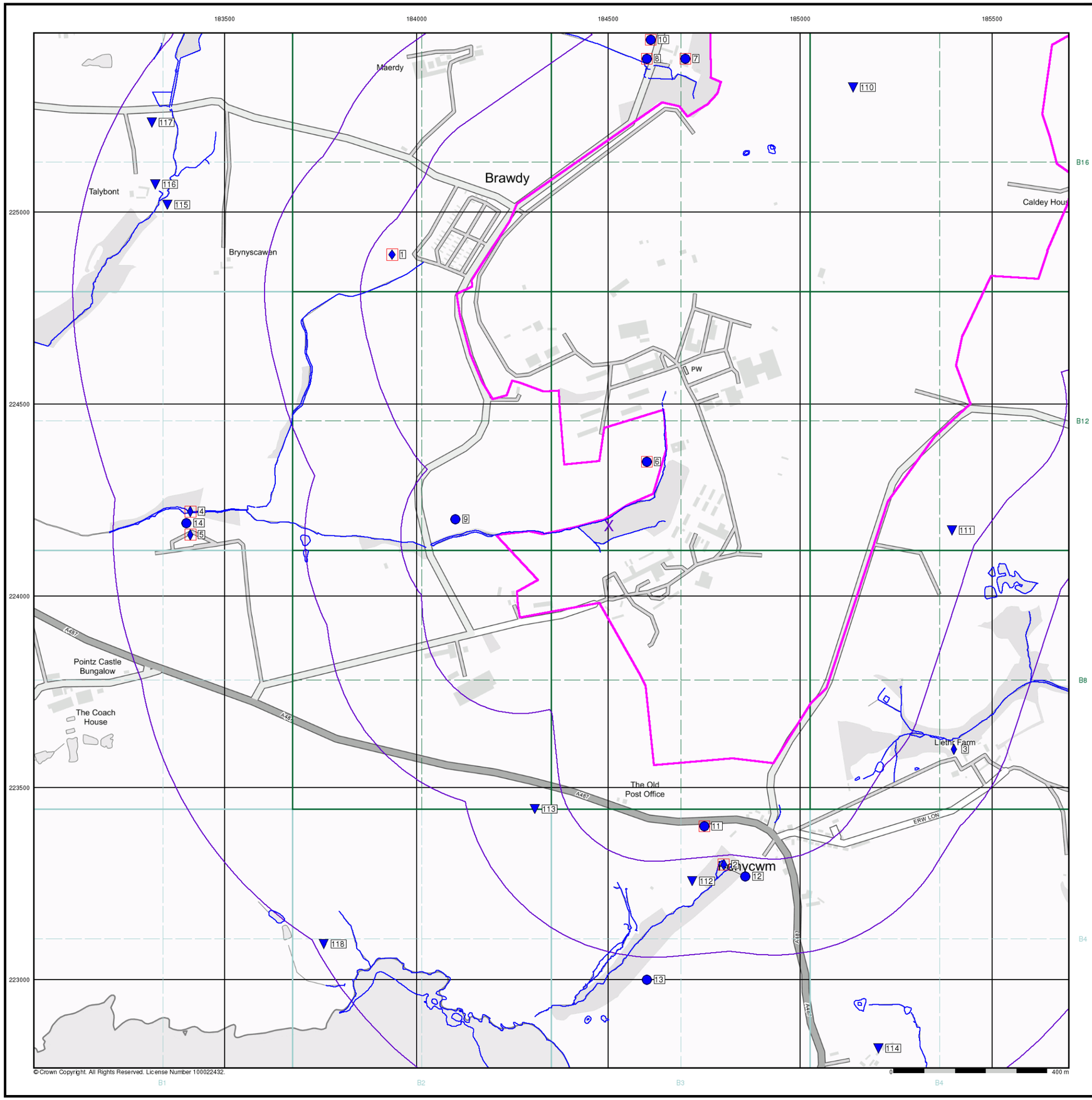
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

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SWECO

General

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

Agency and Hydrological

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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

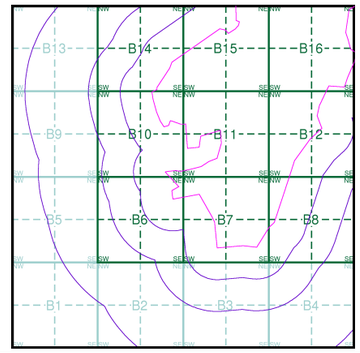
Waste

- 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
- 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

Site Sensitivity Map - Slice B



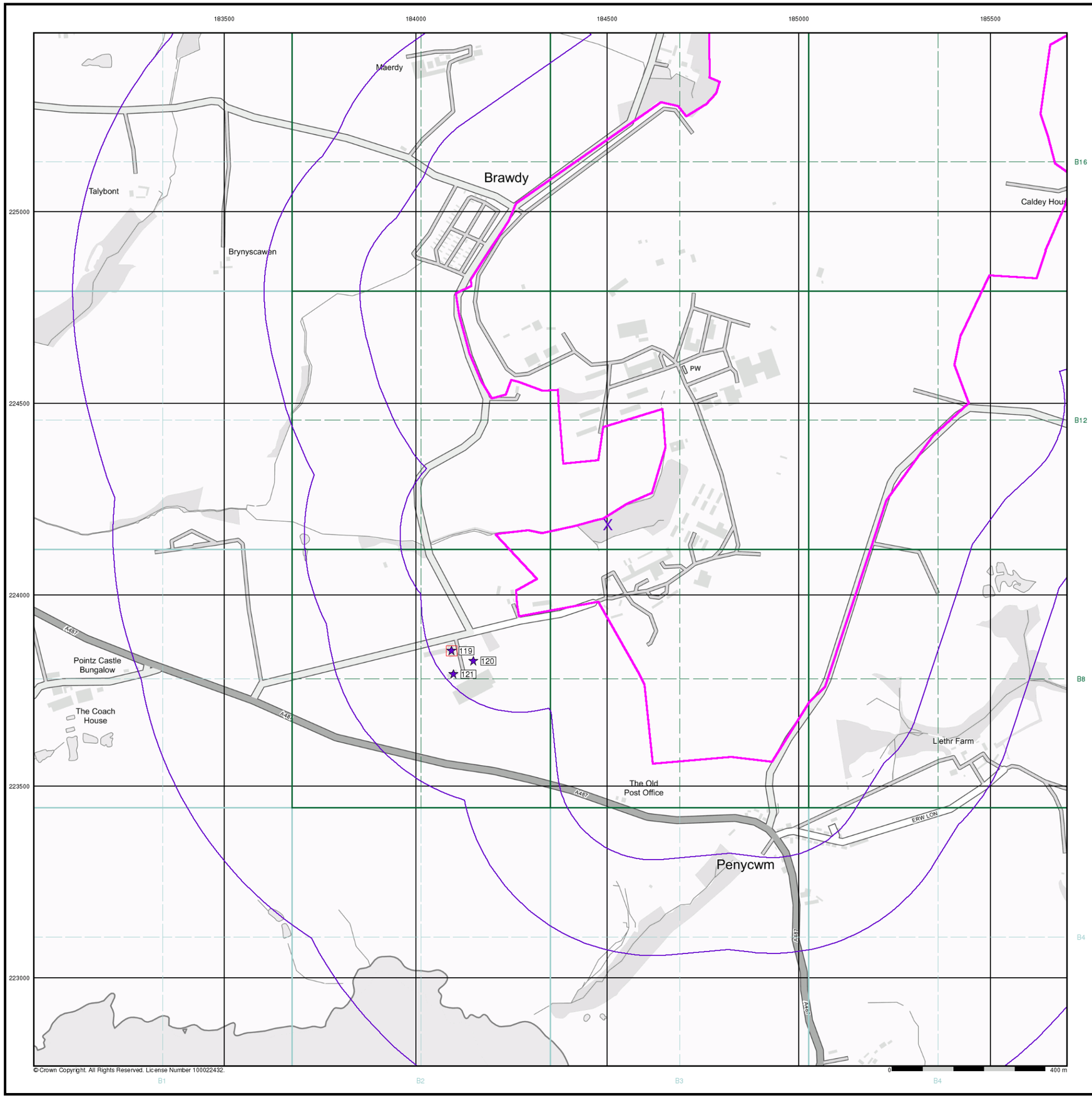
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

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SWECO

Industrial Land Use Map

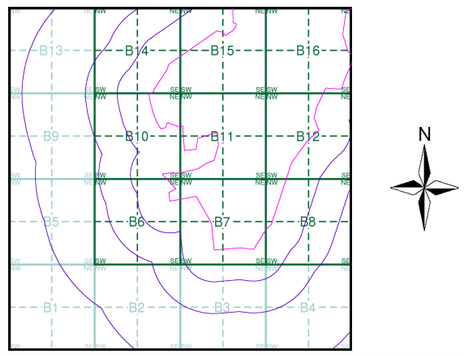
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice B



Order Details

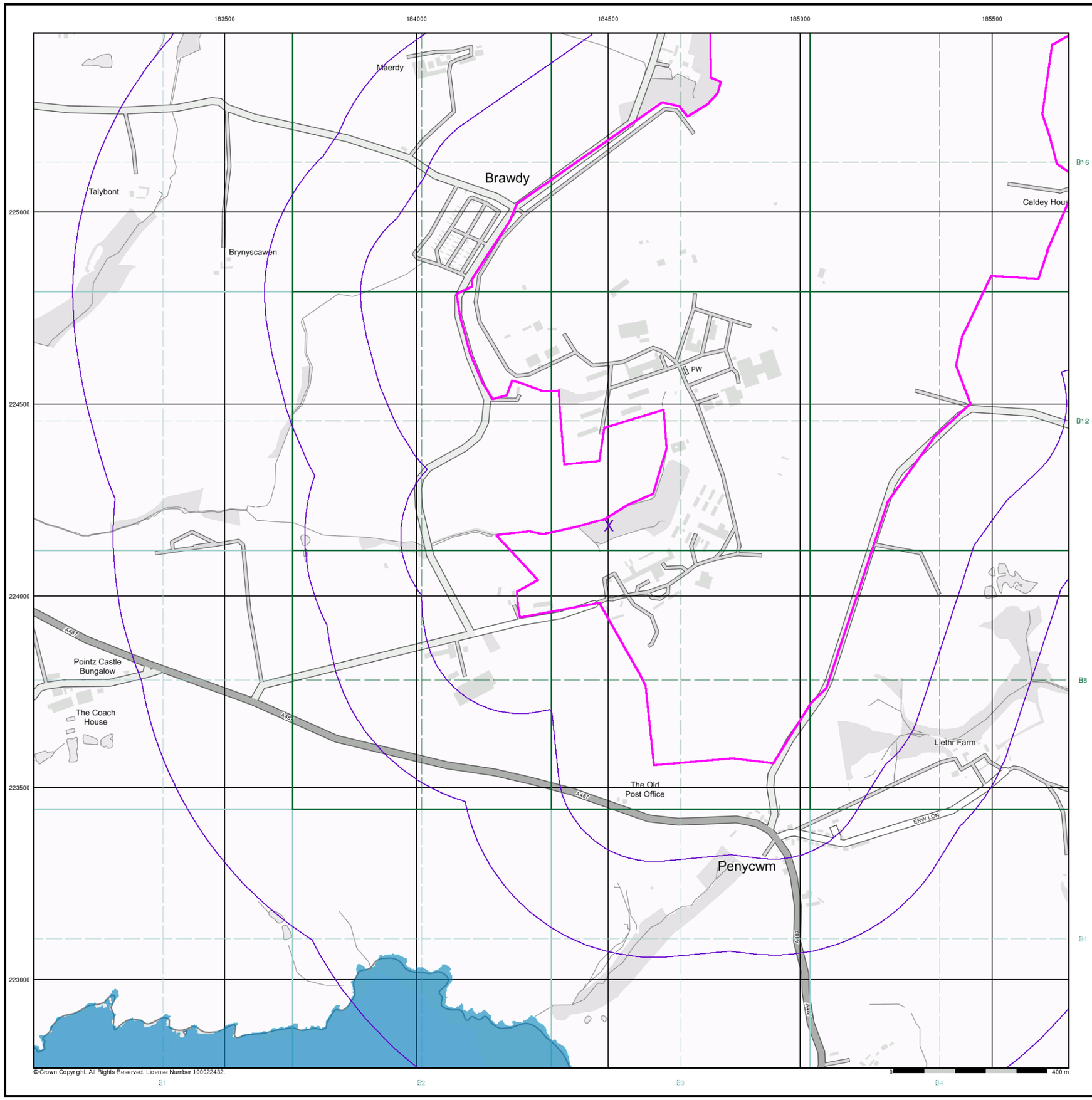
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

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SWECO

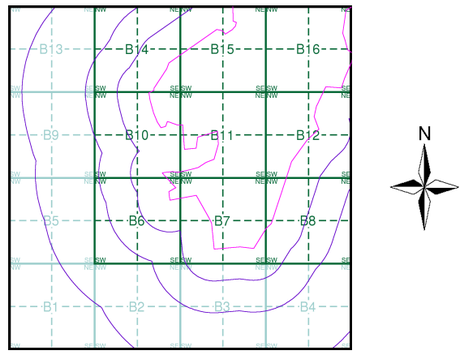
General

- 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 B



Order Details

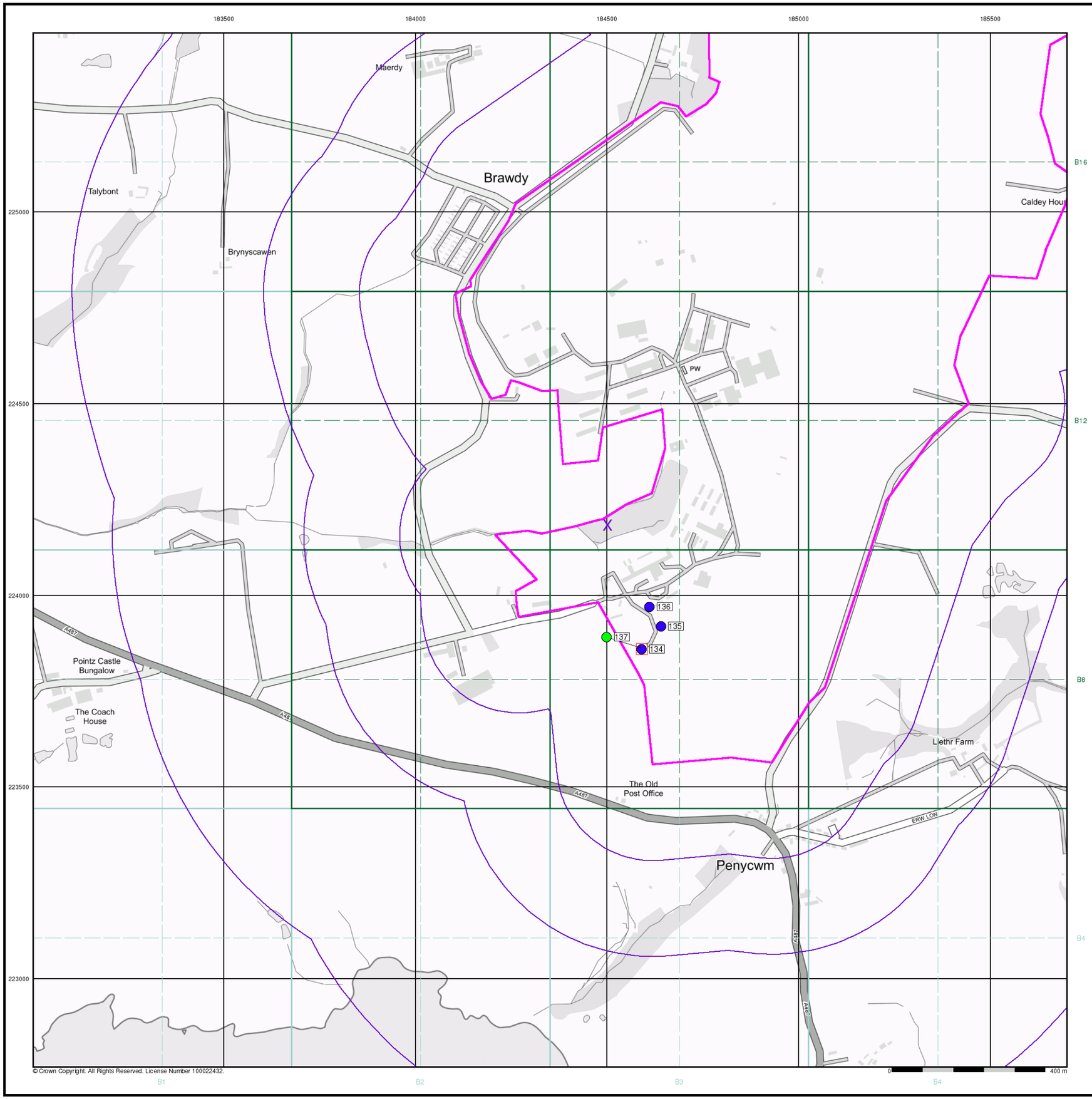
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

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SWECO

General

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

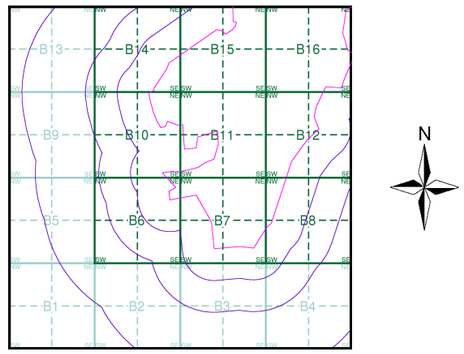
Agency and Hydrological (Boreholes)

- 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



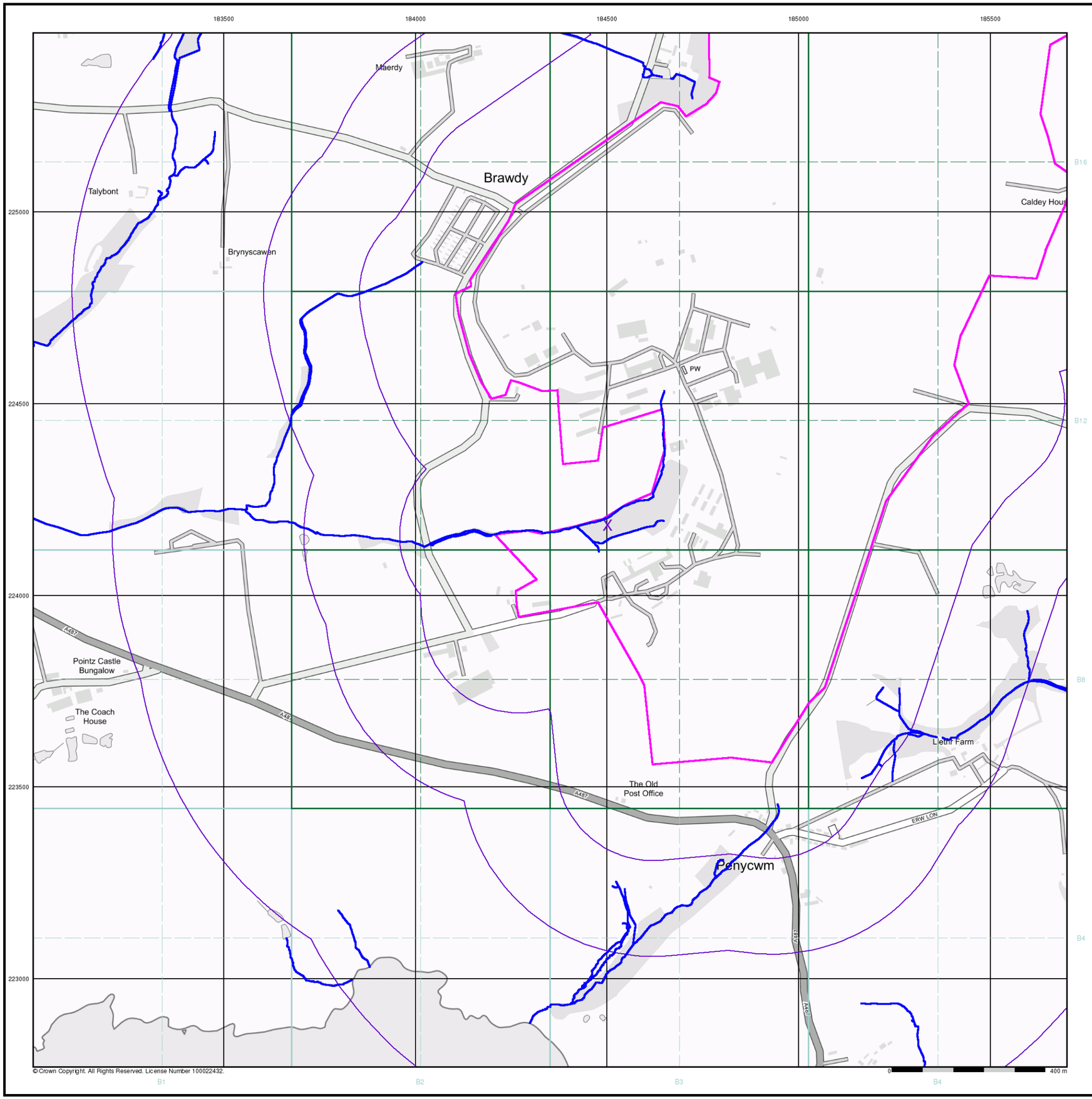
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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



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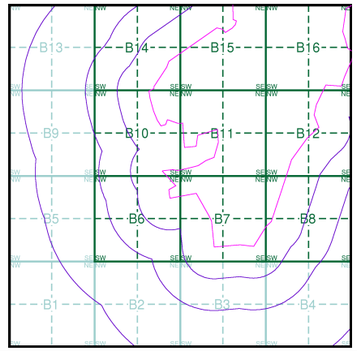
General

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

OS Water Network Data

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

OS Water Network Map - Slice B



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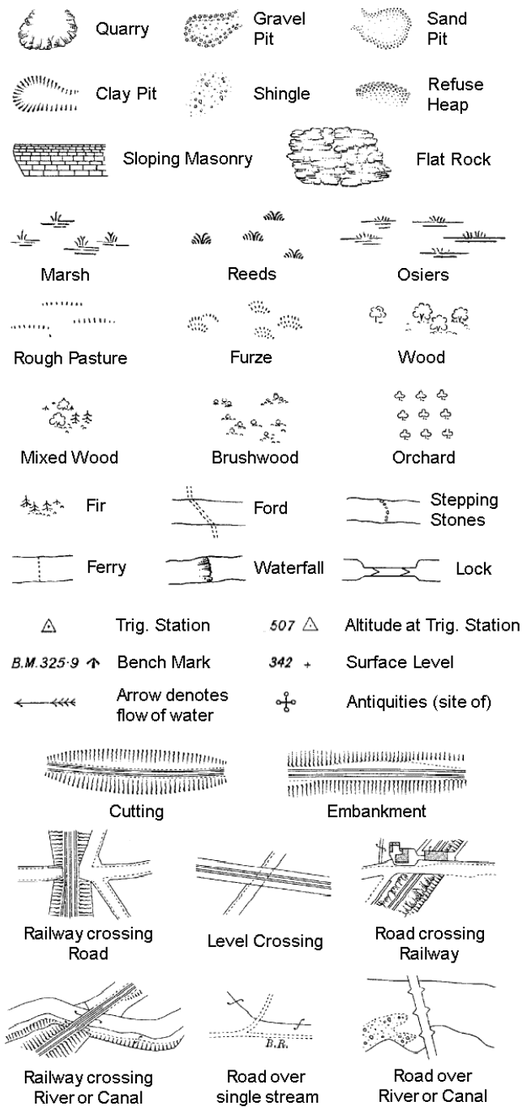
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

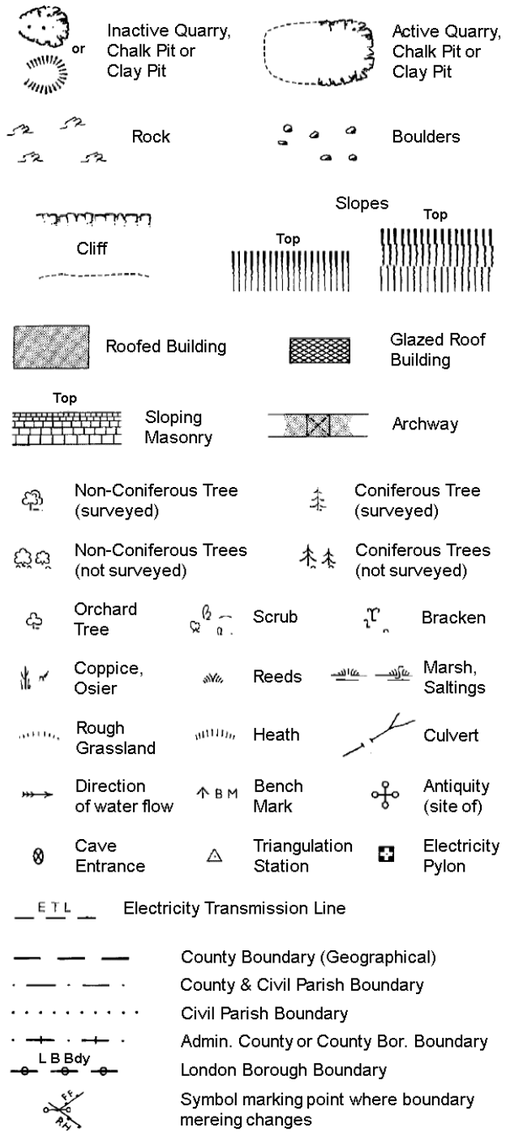
Administrative County & Civil Parish Boundary

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

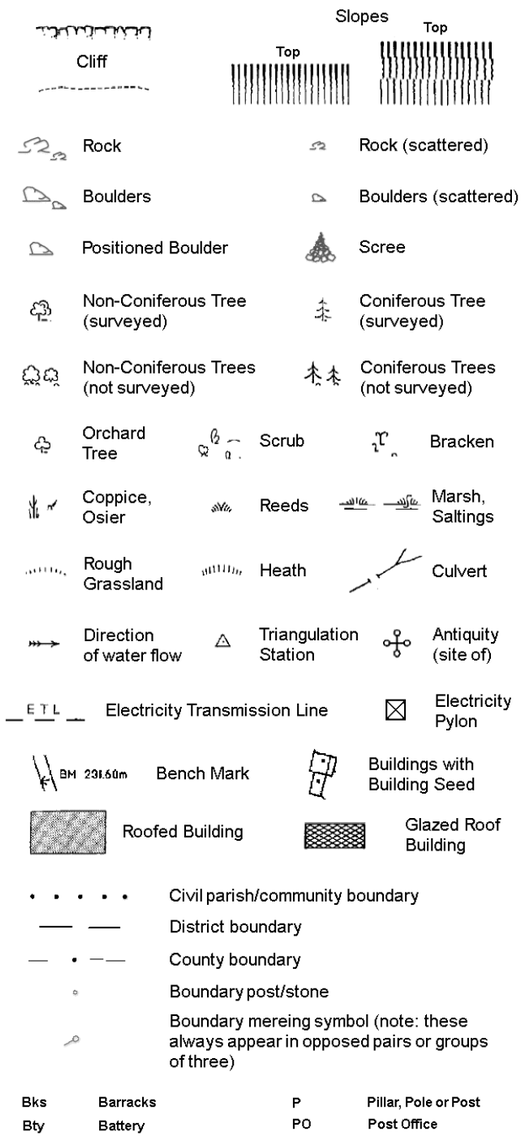
Admin. County or County Bor. Boundary

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
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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)

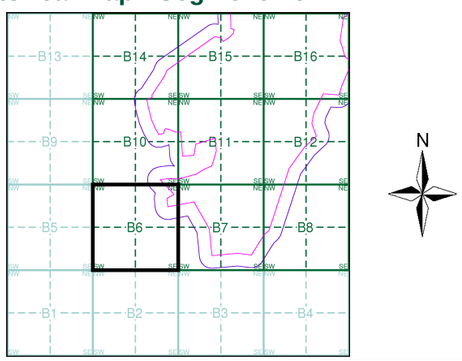
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment B6



Order Details

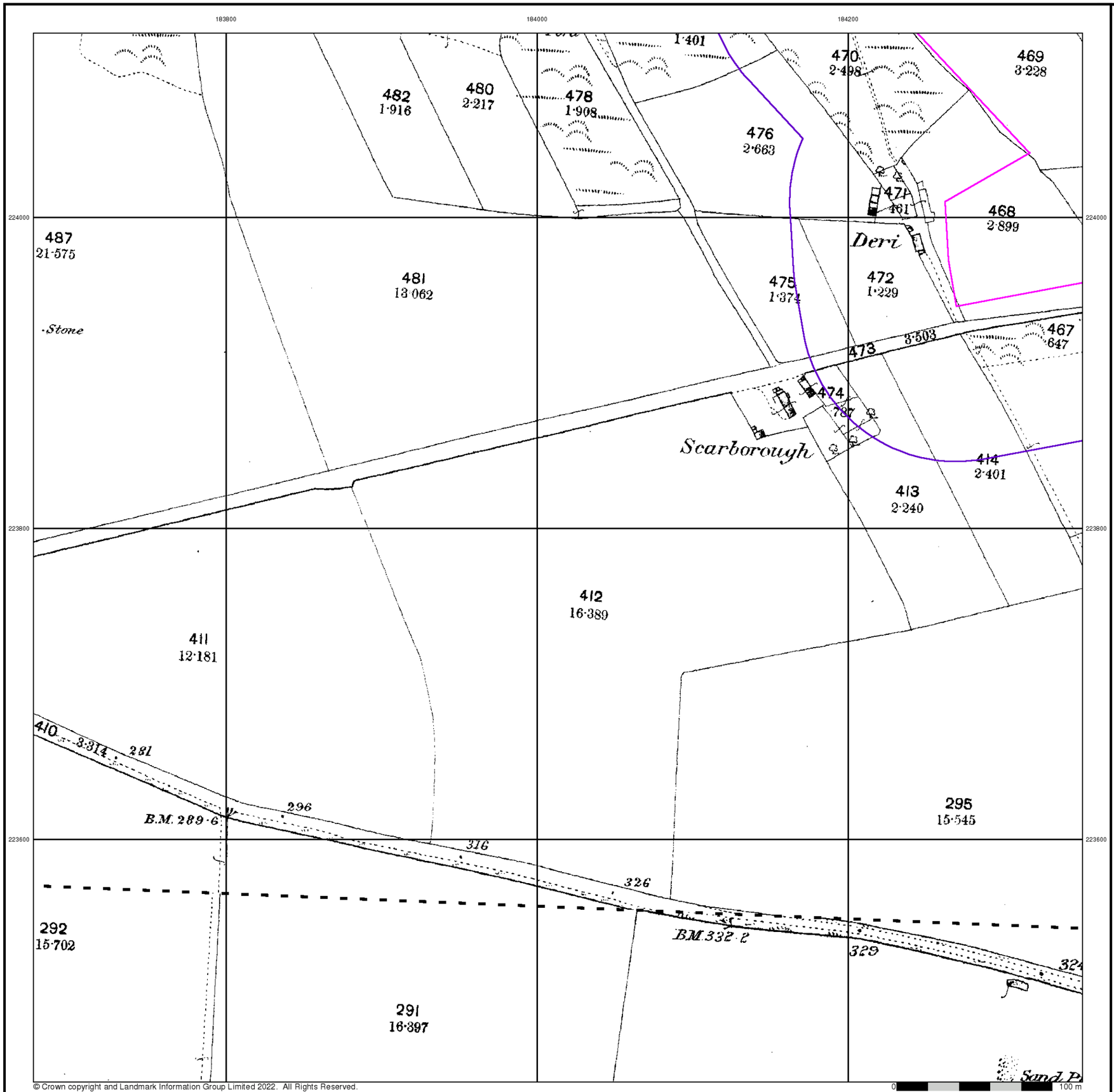
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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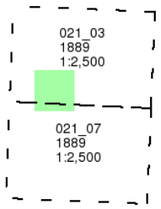
Pembrokeshire

Published 1889

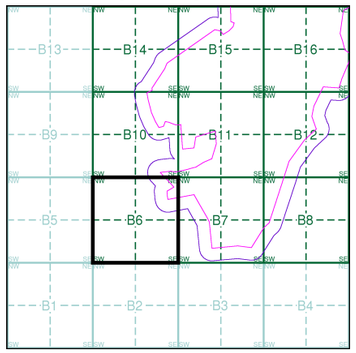
Source map scale - 1:2,500

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 B6



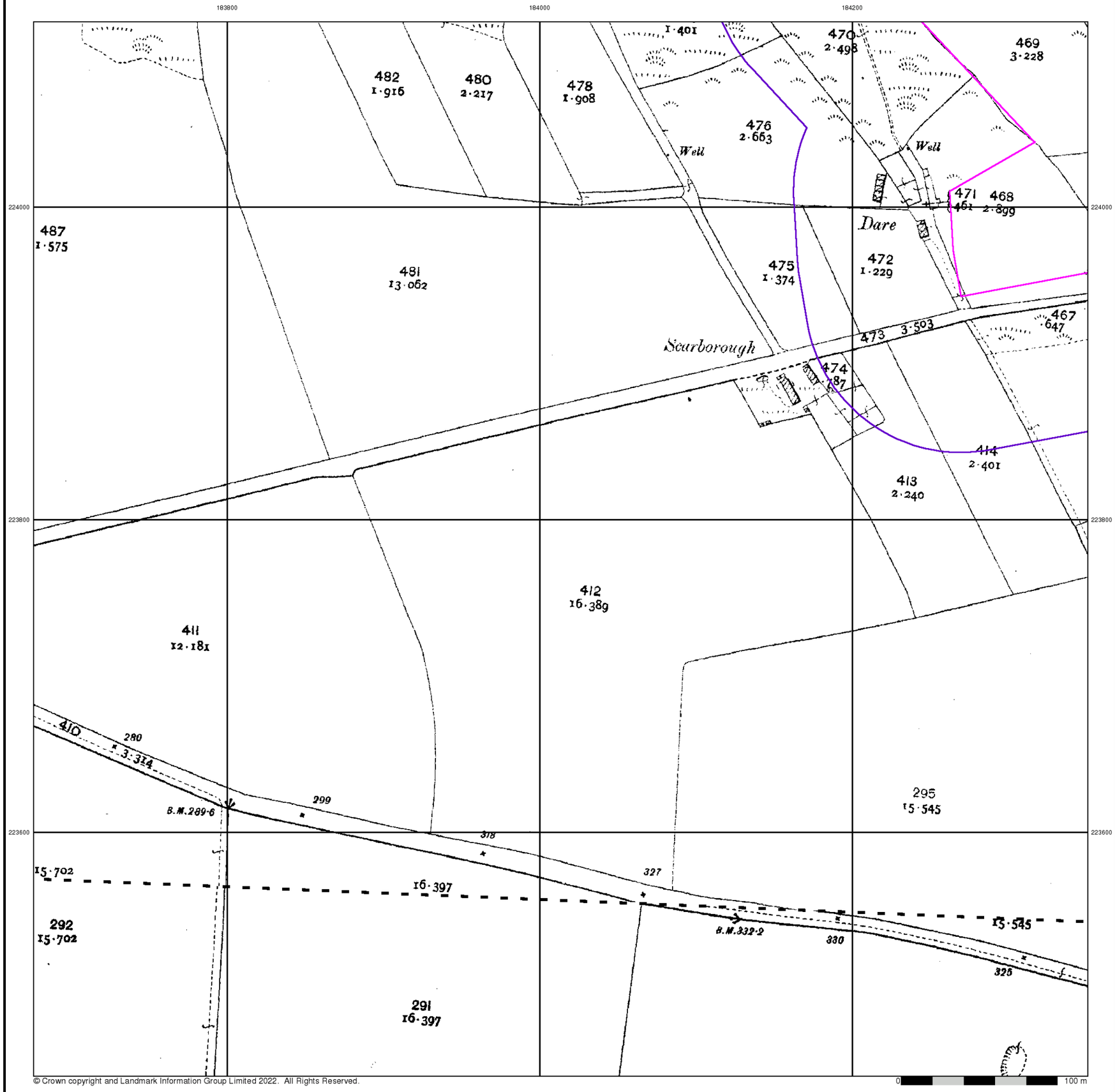
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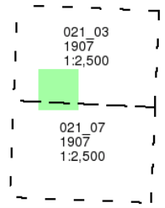
Pembrokeshire

Published 1907

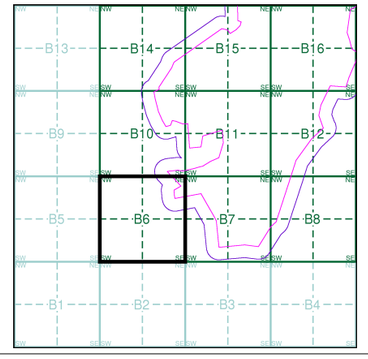
Source map scale - 1:2,500

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Historical Map - Segment B6



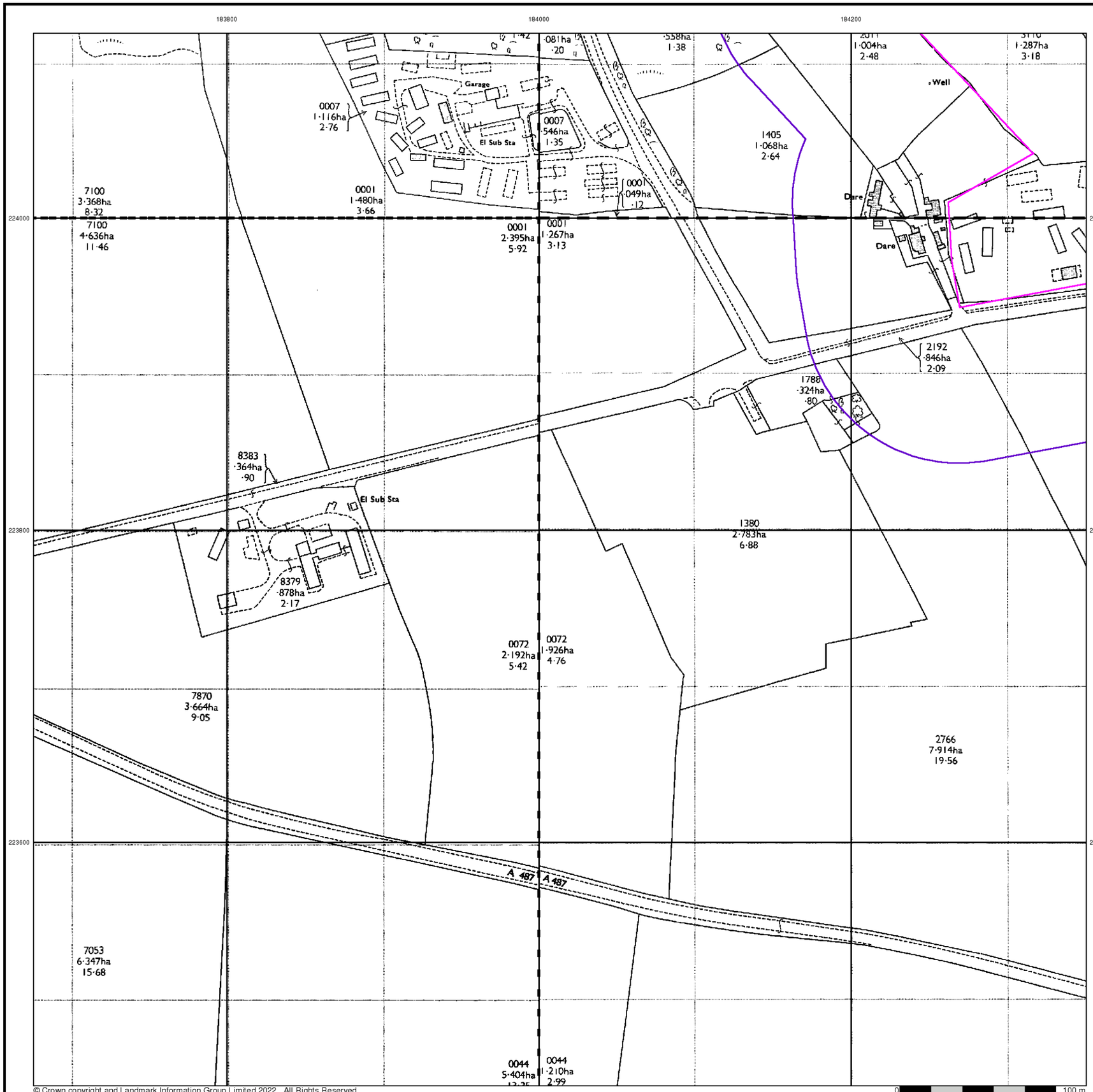
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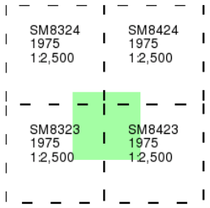
Ordnance Survey Plan

Published 1975

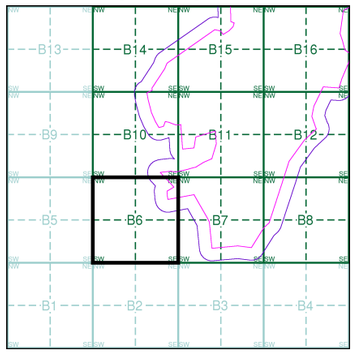
Source map scale - 1:2,500

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Historical Map - Segment B6



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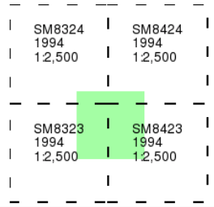
Large-Scale National Grid Data

Published 1994

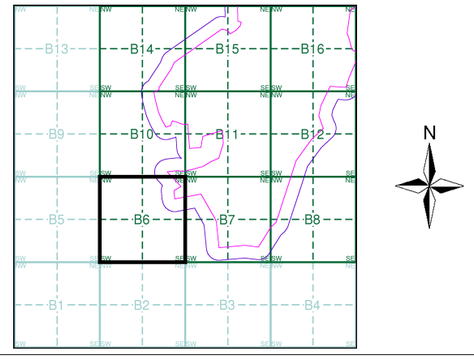
Source map scale - 1:2,500

'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 B6



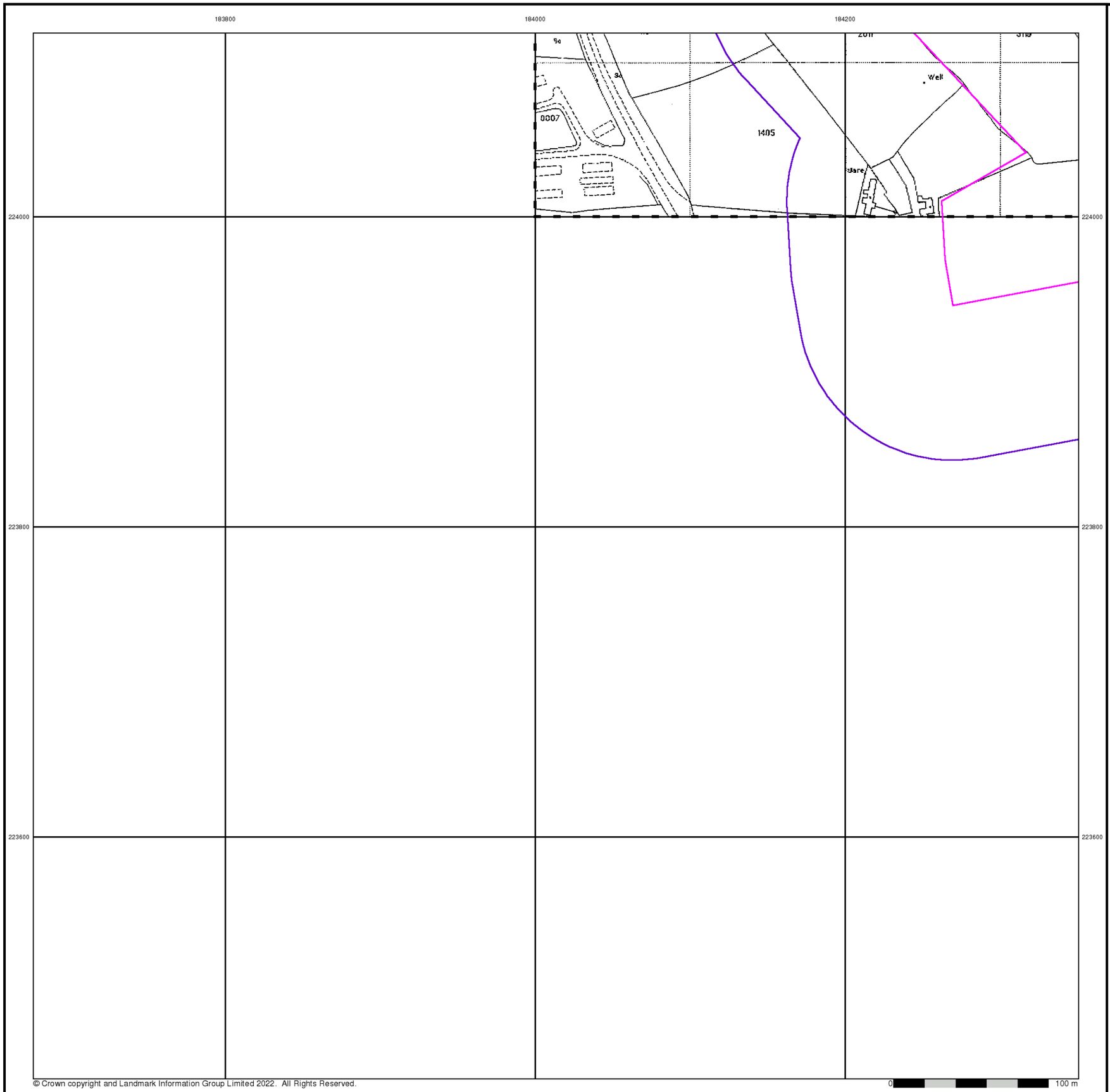
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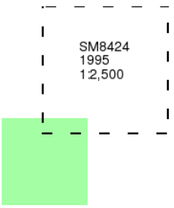
Large-Scale National Grid Data

Published 1995

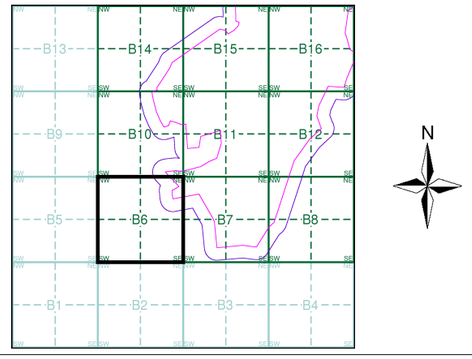
Source map scale - 1:2,500

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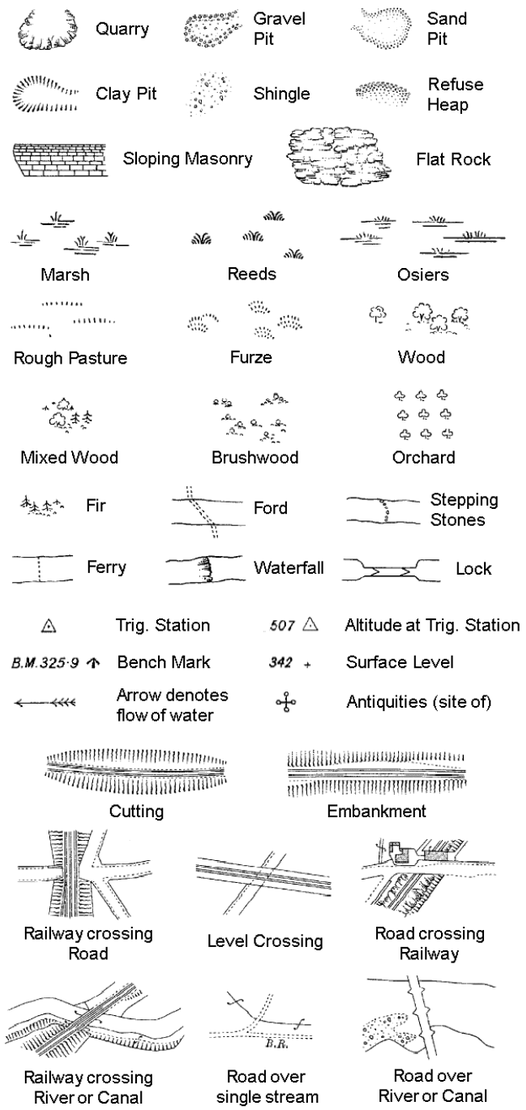
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

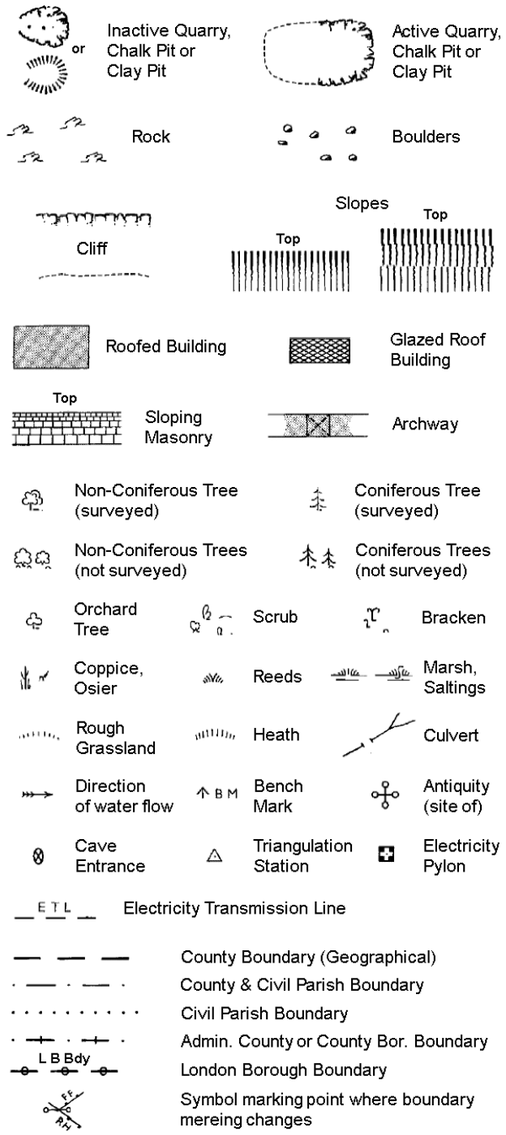
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Co. Boro. Bdy. County Borough Boundary (England)

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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

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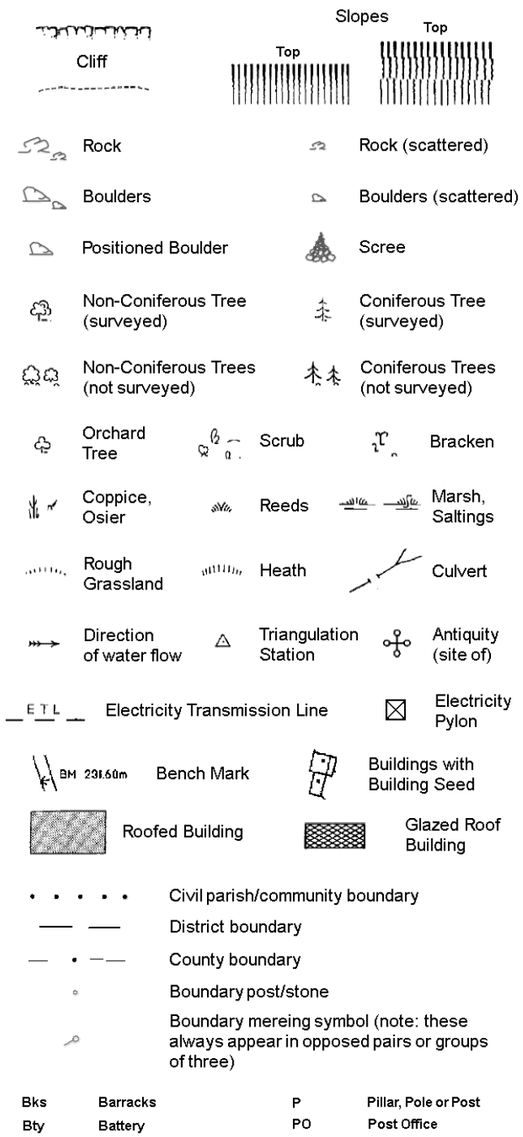
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

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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)

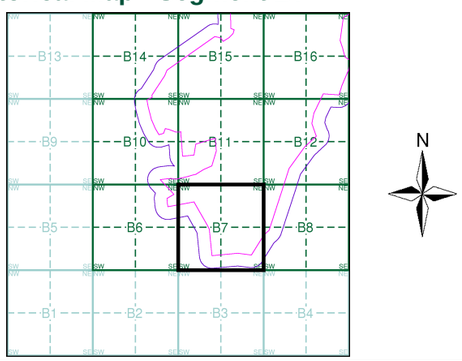
Bks	Barracks	P	Pillar, Pole or Post
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Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
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MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
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Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment B7



Order Details

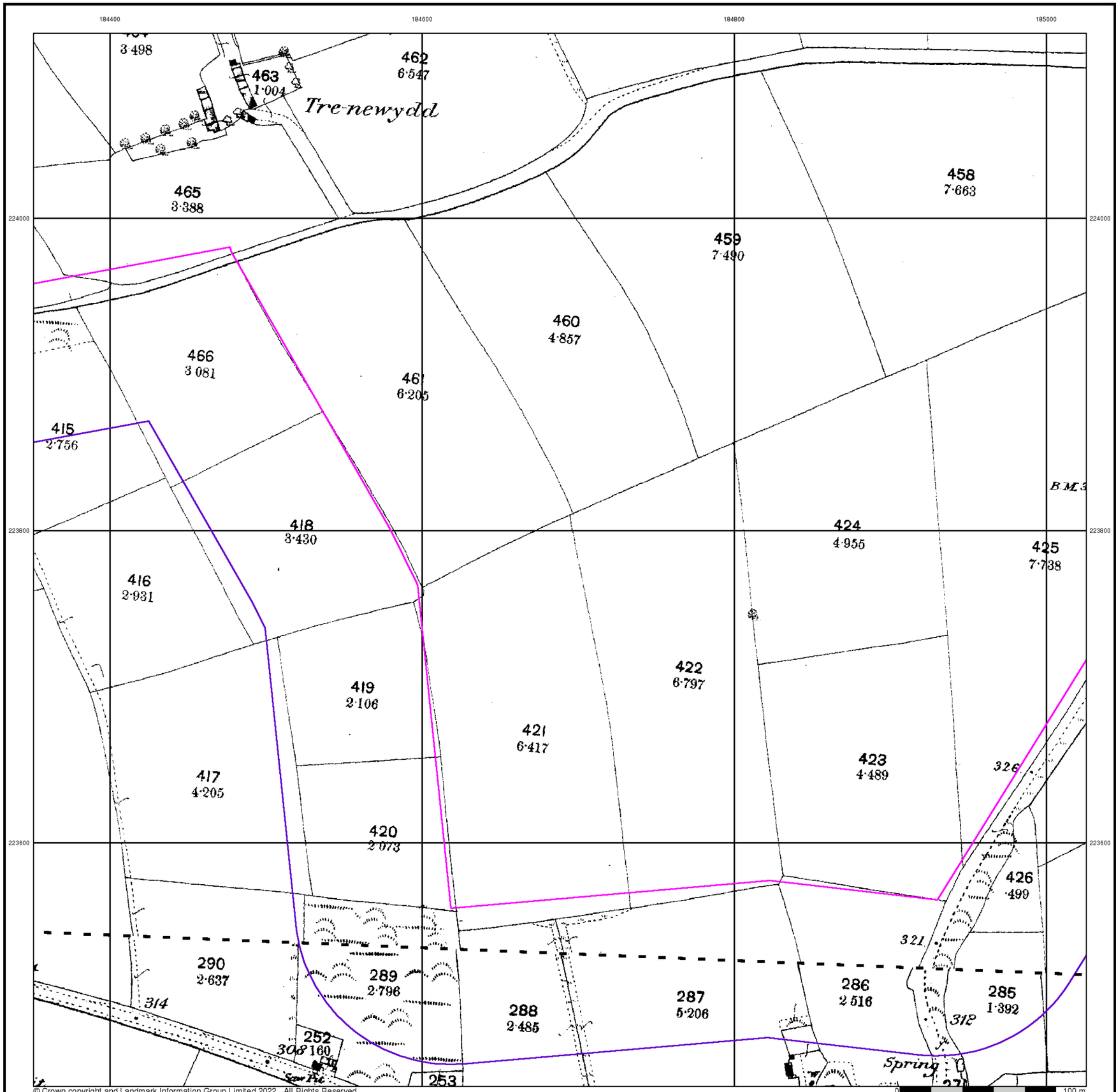
Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

Cawdor site

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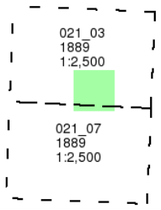
Pembrokeshire

Published 1889

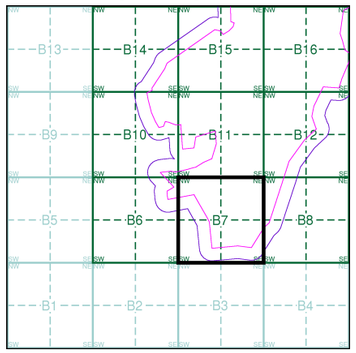
Source map scale - 1:2,500

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 B7



Order Details

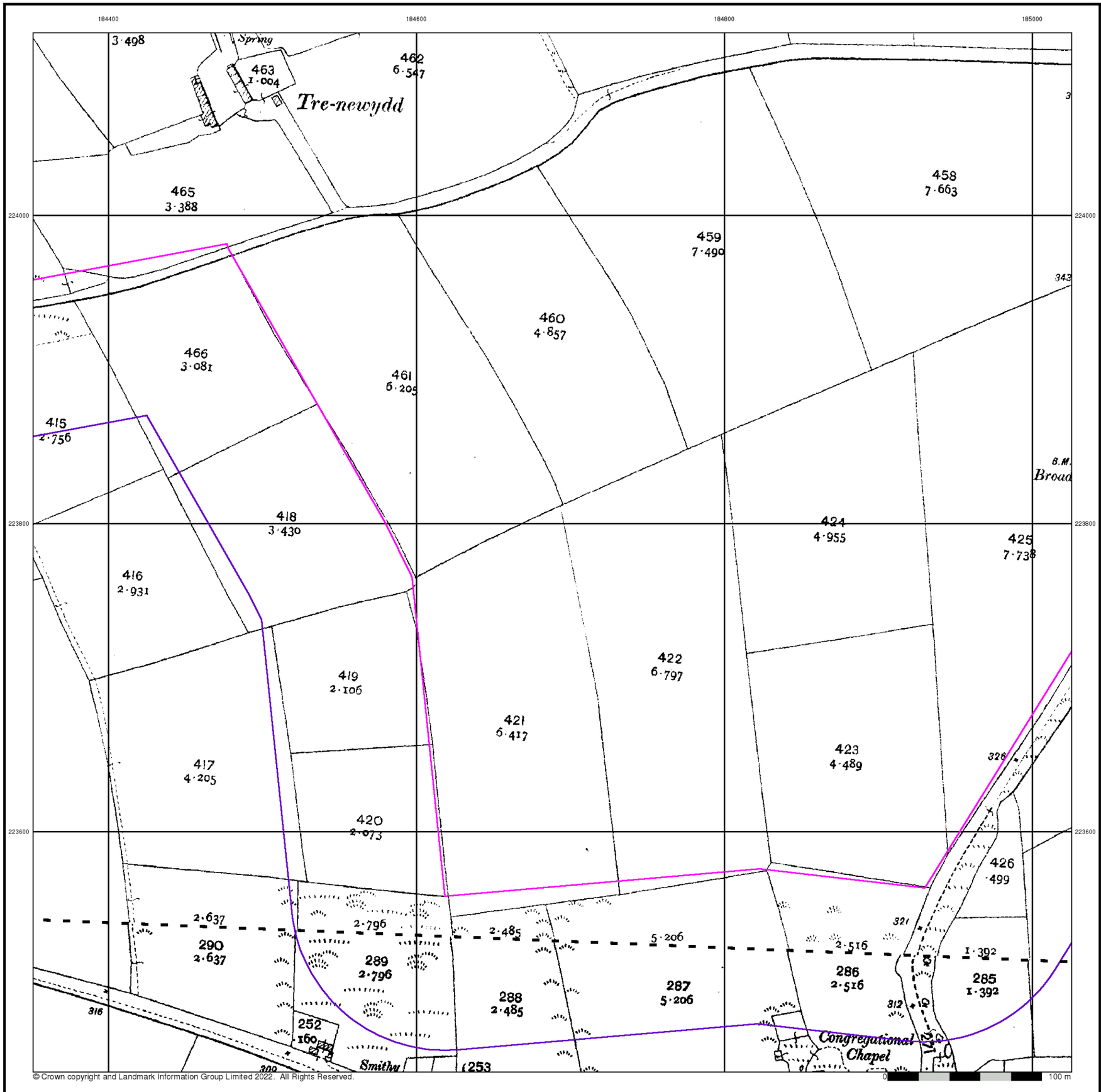
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Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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SWECO

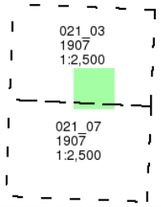
Pembrokeshire

Published 1907

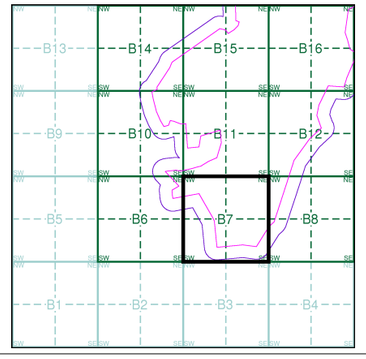
Source map scale - 1:2,500

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 B7



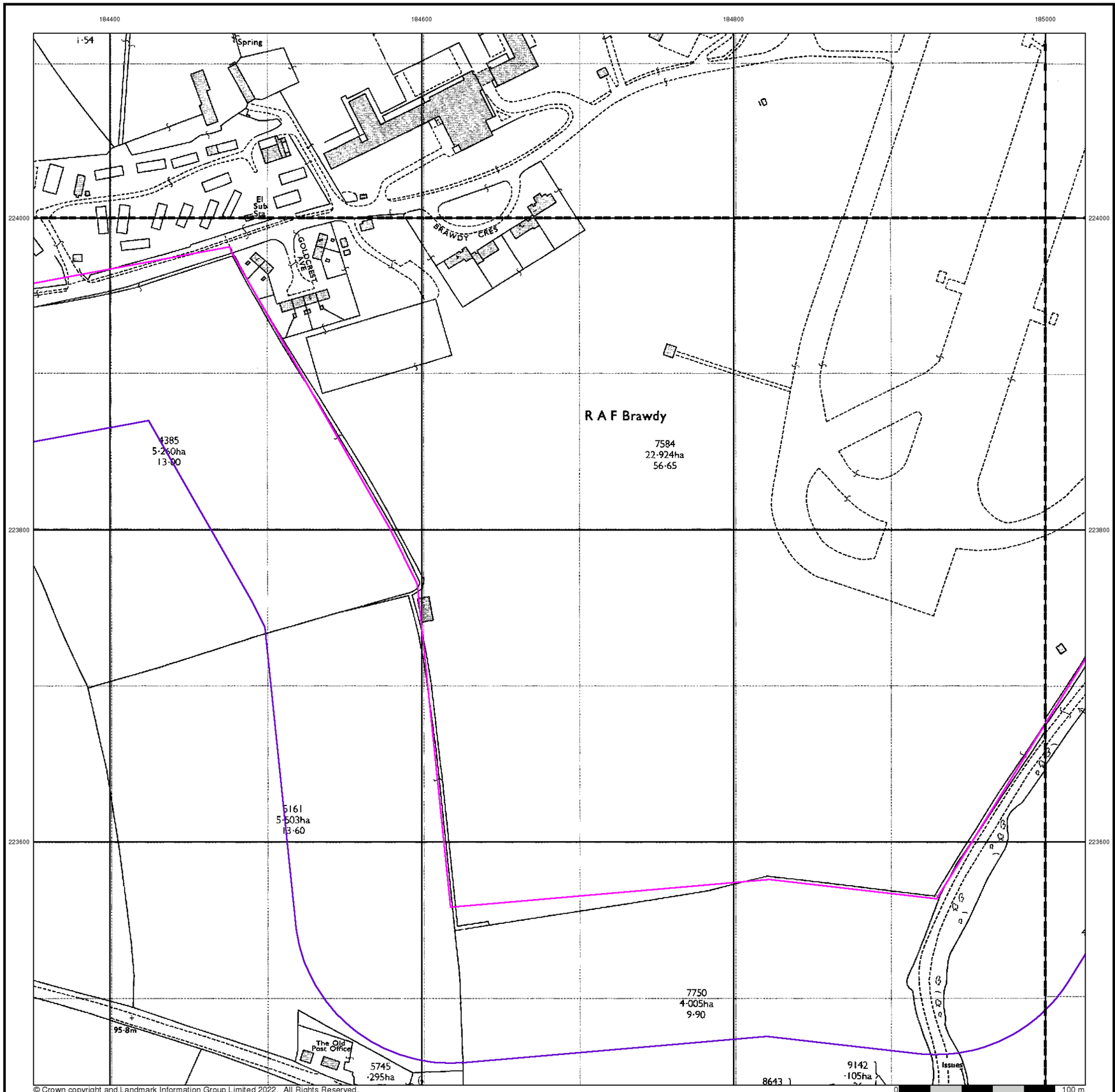
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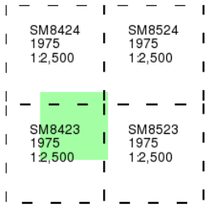
Ordnance Survey Plan

Published 1975

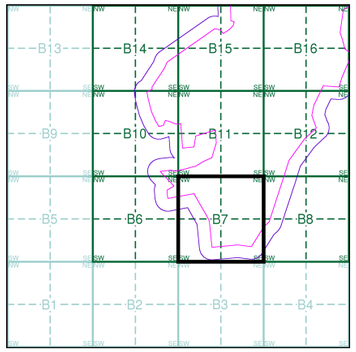
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment B7



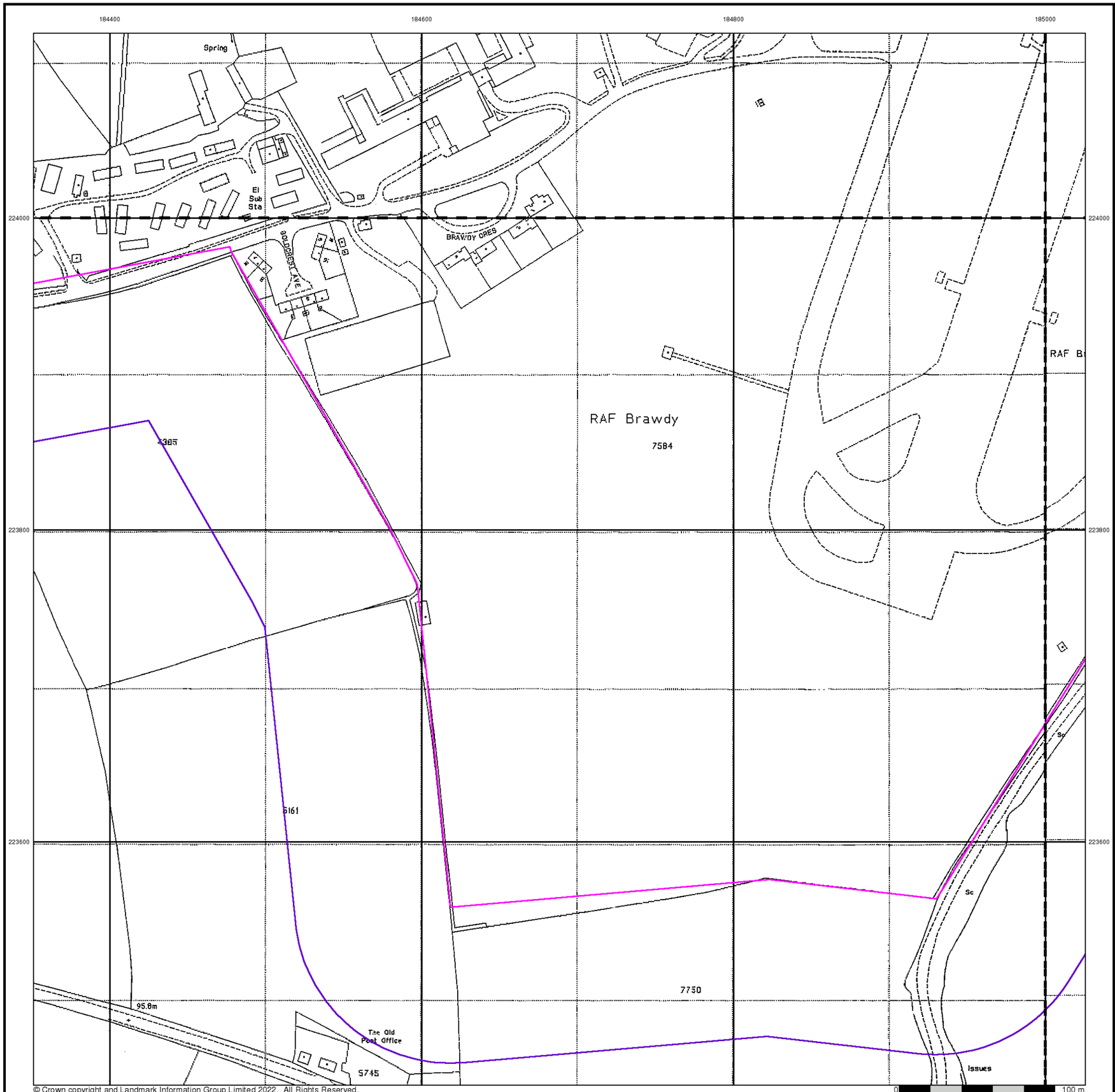
Order Details

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Large-Scale National Grid Data

Published 1994

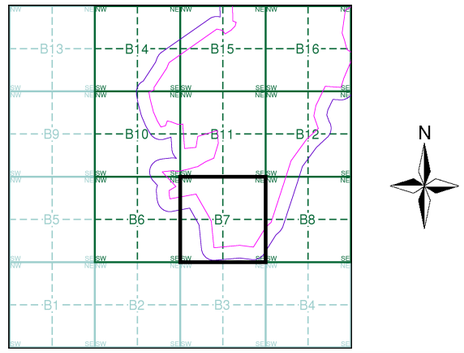
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SM8424 1994 1:2,500	SM8524 1994 1:2,500
SM8423 1994 1:2,500	SM8523 1994 1:2,500

Historical Map - Segment B7



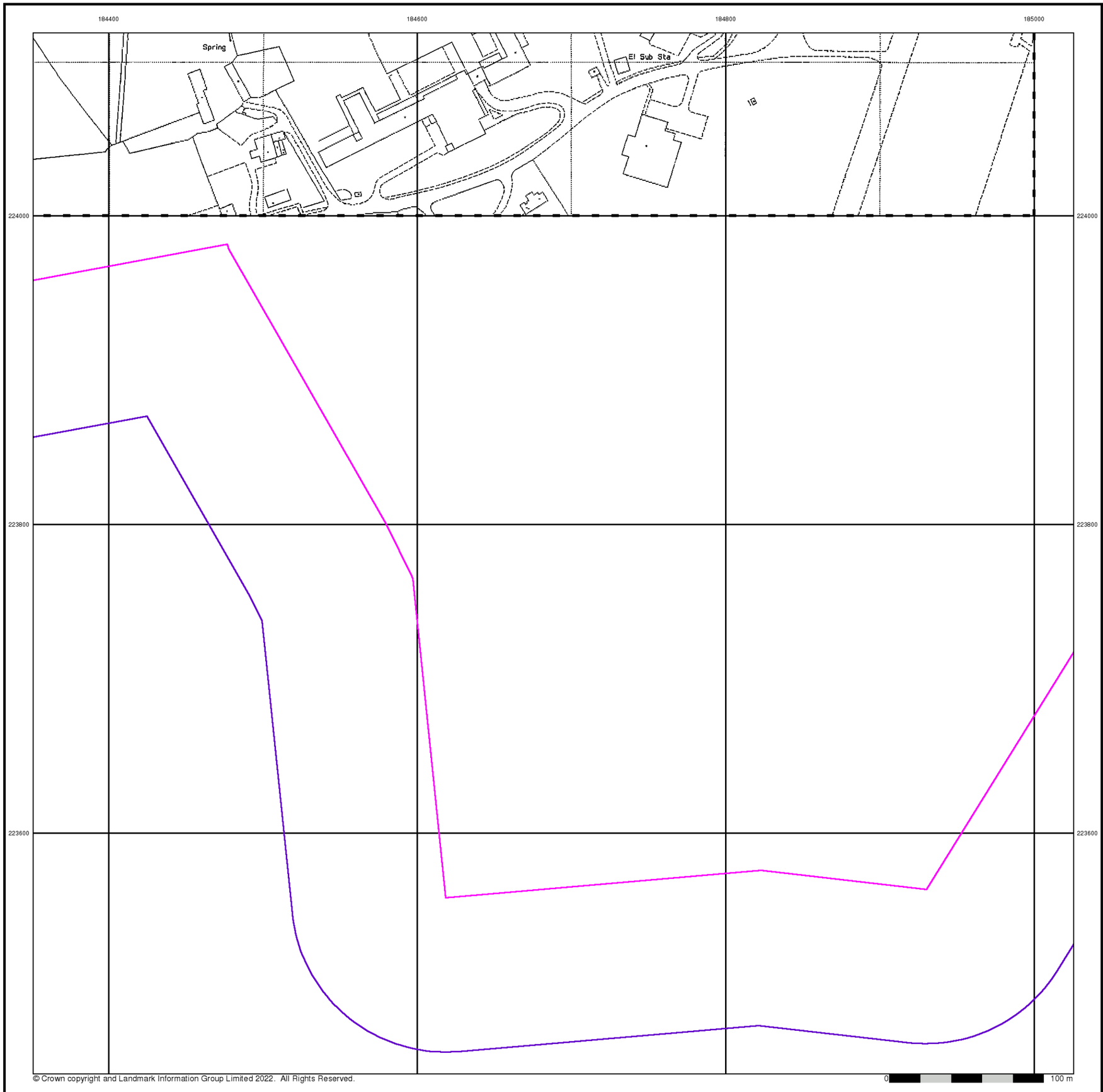
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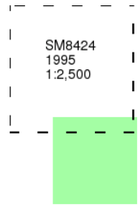
Large-Scale National Grid Data

Published 1995

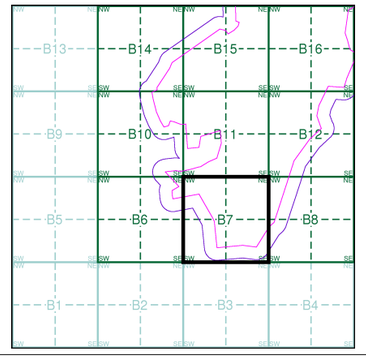
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment B7



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
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Site Area (Ha):	308.46
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Site Details

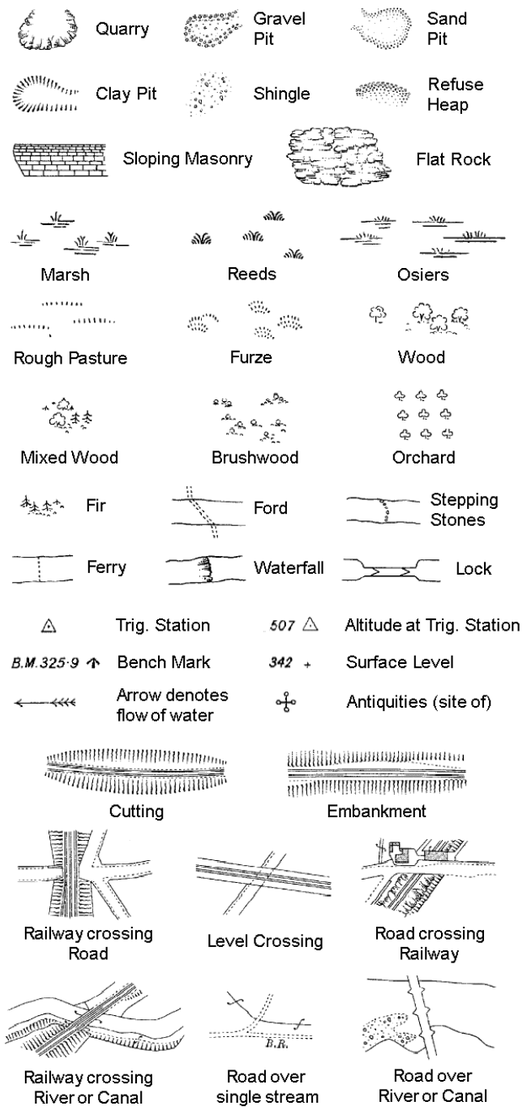
Cawdor site

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Historical Mapping Legends

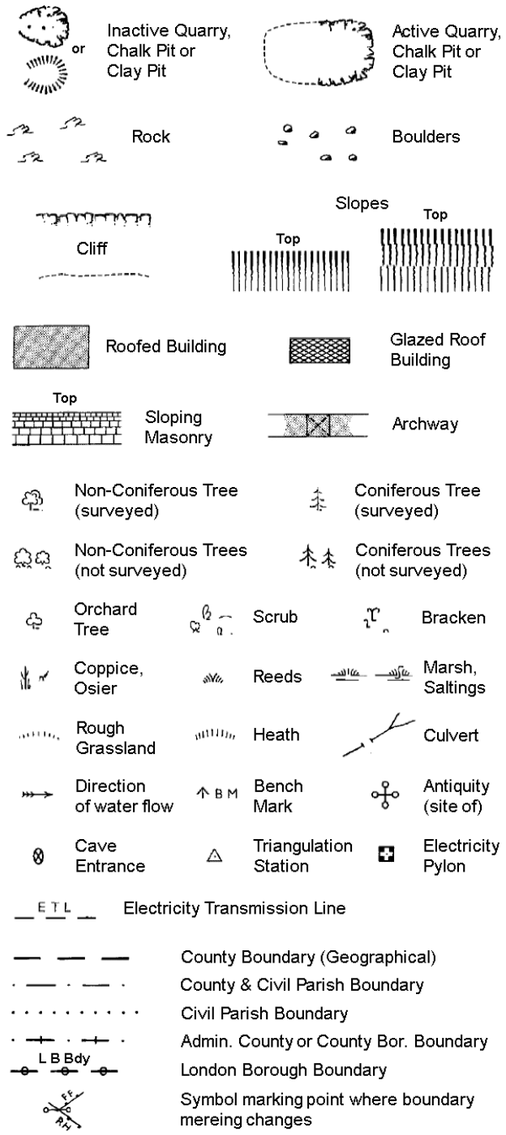
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

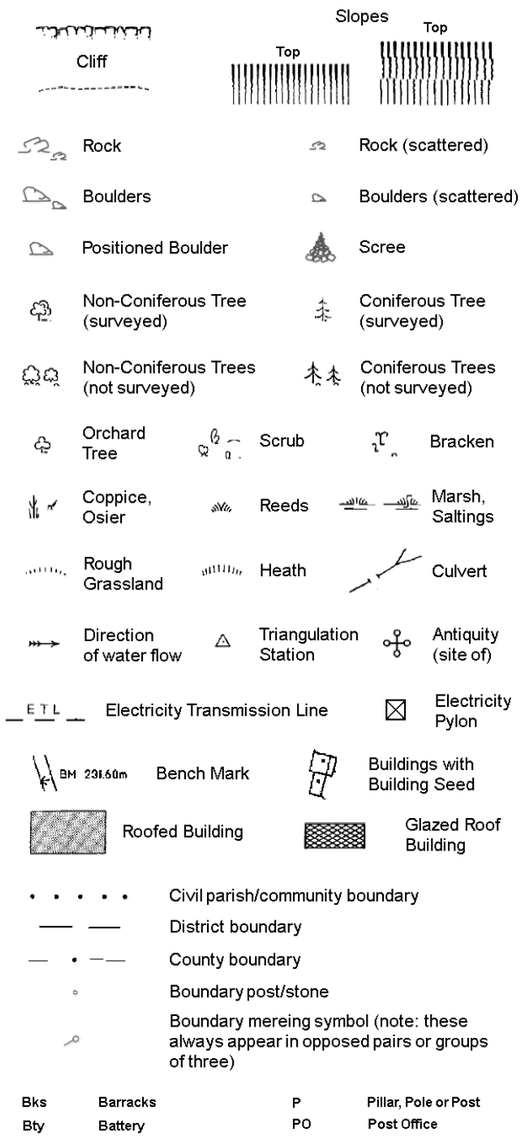
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

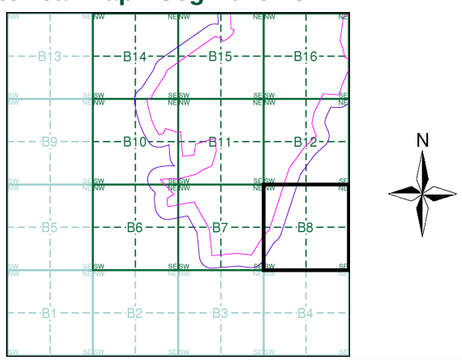
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment B8



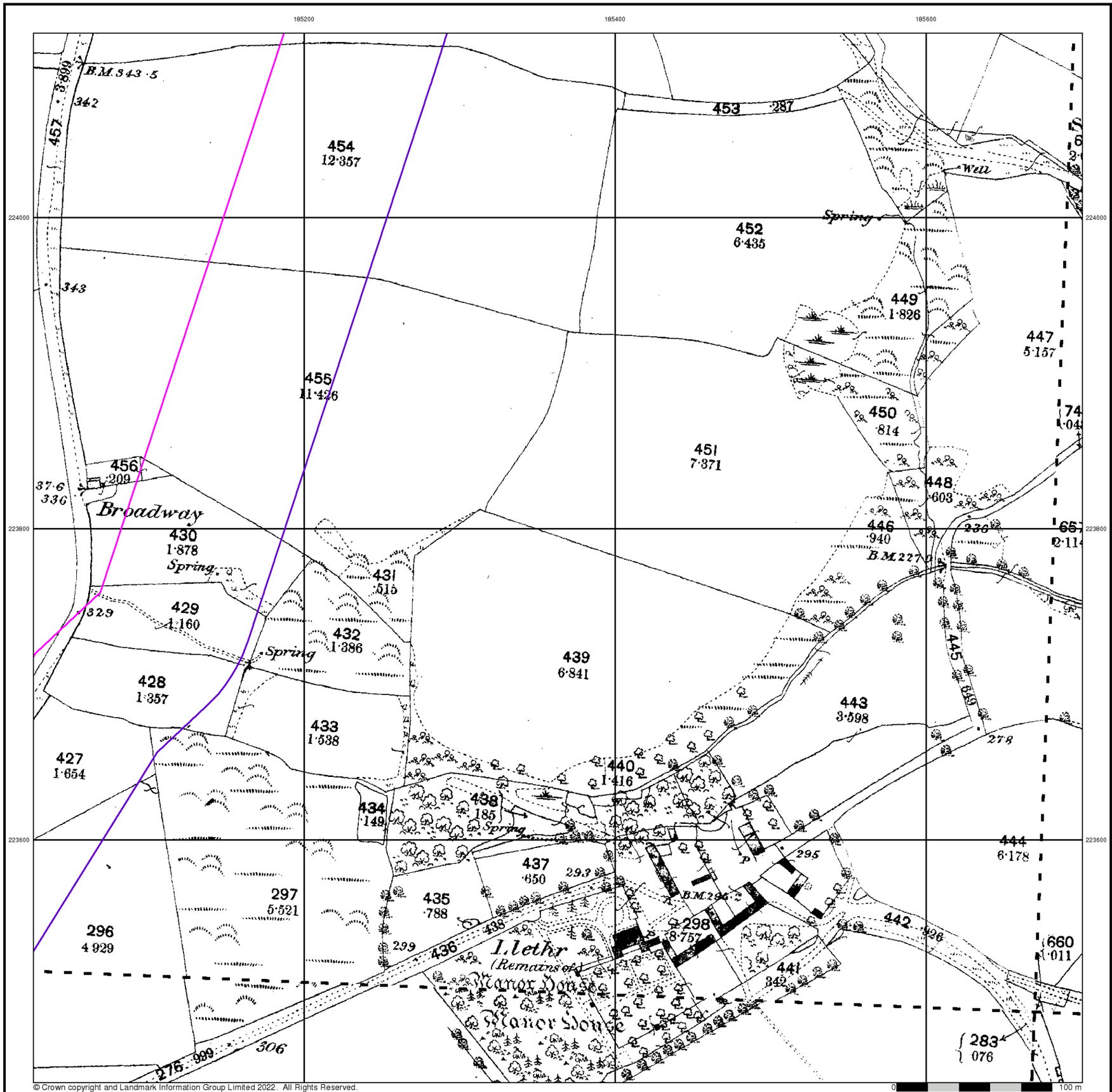
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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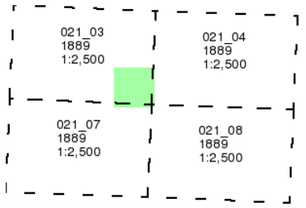
Pembrokeshire

Published 1889

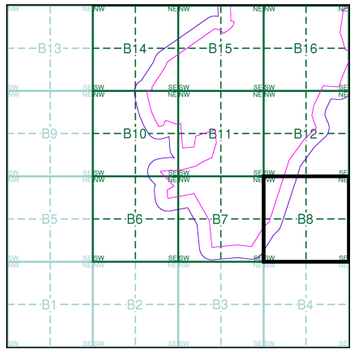
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment B8



Order Details

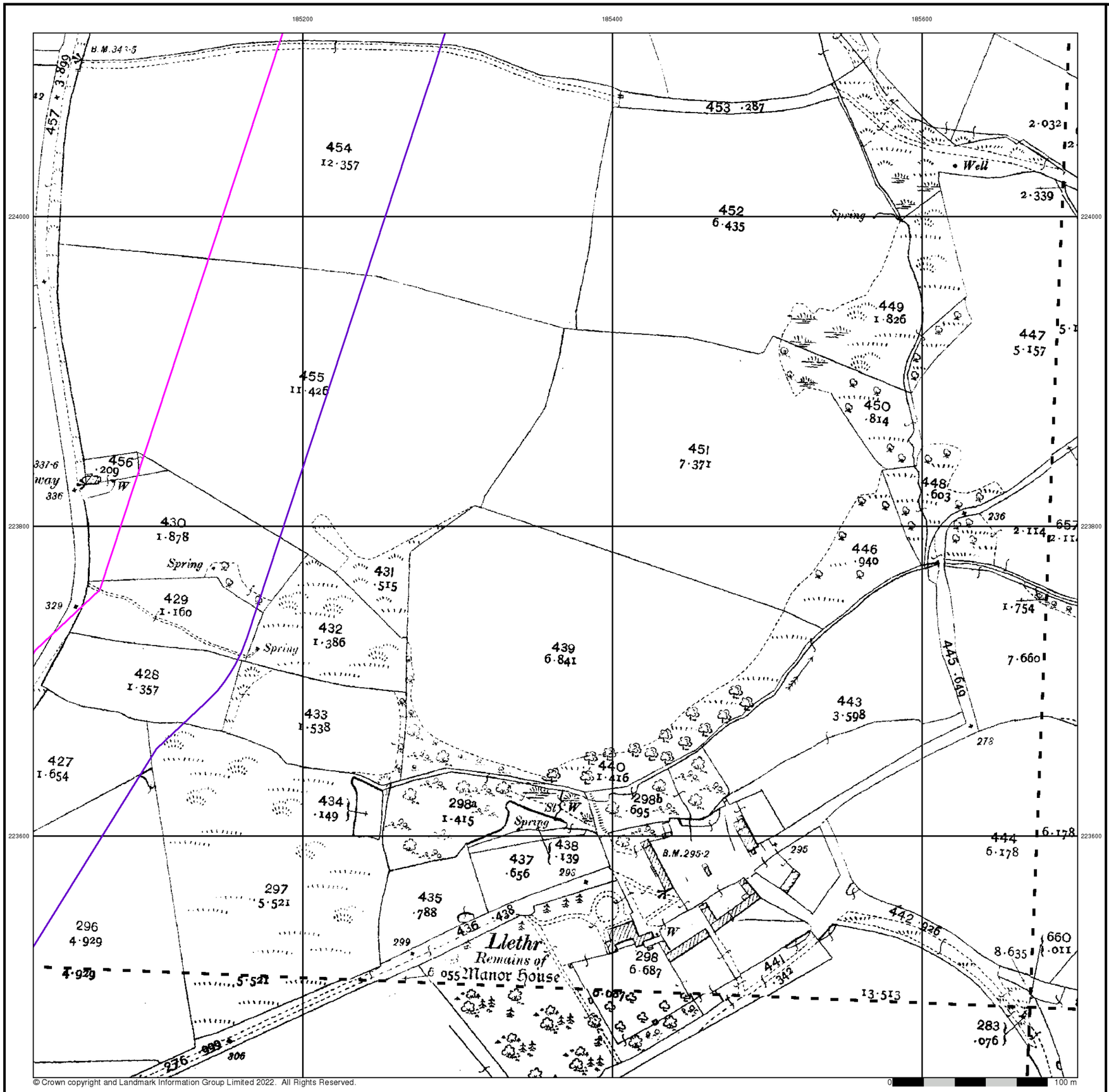
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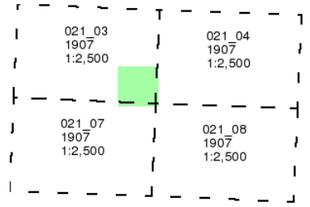
Pembrokeshire

Published 1907

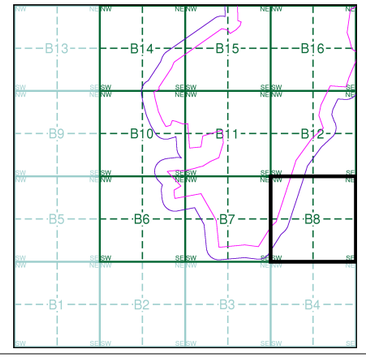
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment B8



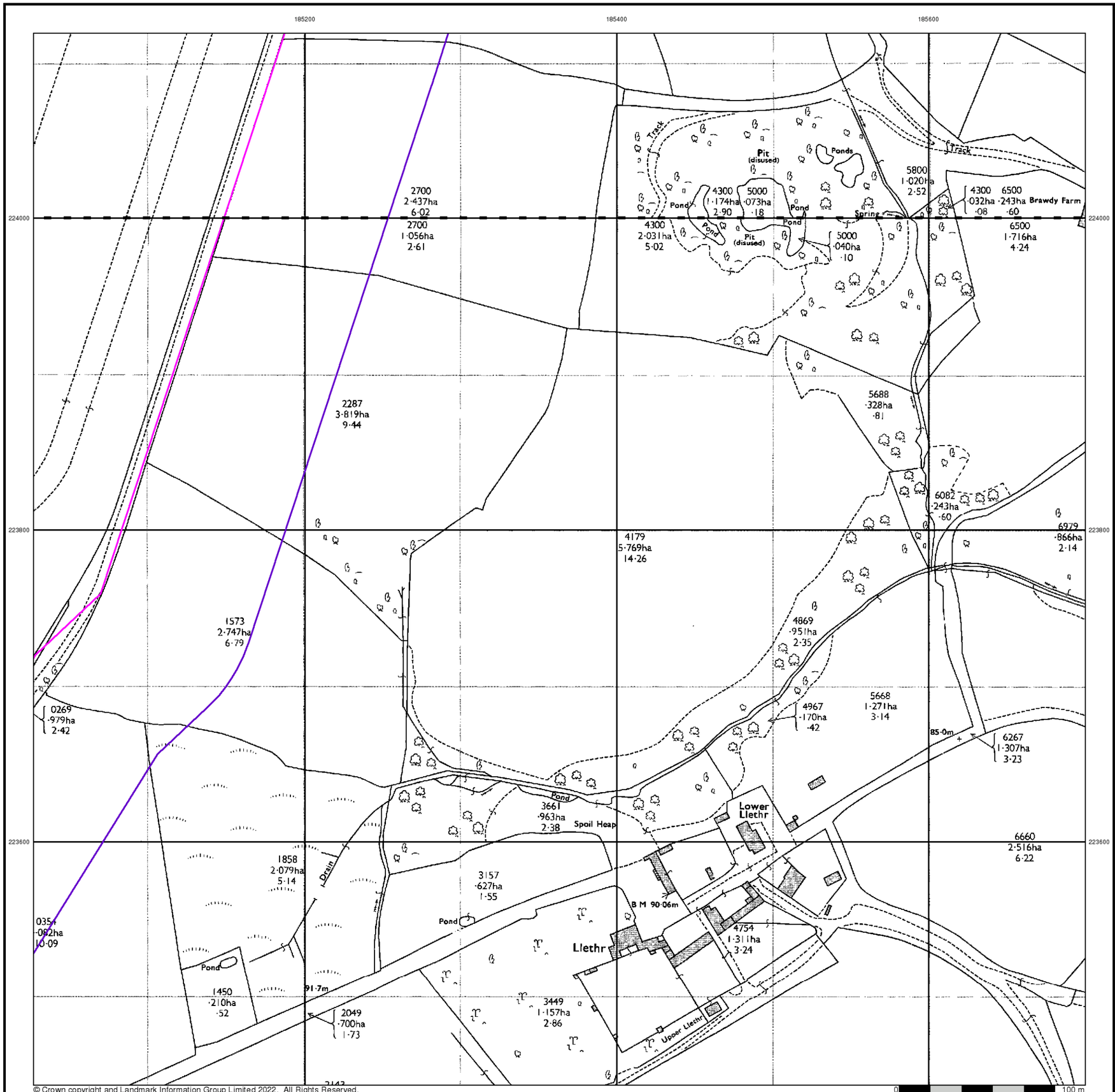
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Ordnance Survey Plan

Published 1975

Source map scale - 1:2,500

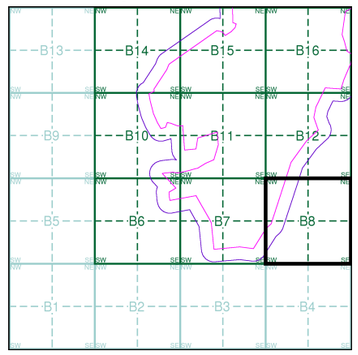
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Map Name(s) and Date(s)

SM8524
1975
1:2,500

SM8523
1975
1:2,500

Historical Map - Segment B8



Order Details

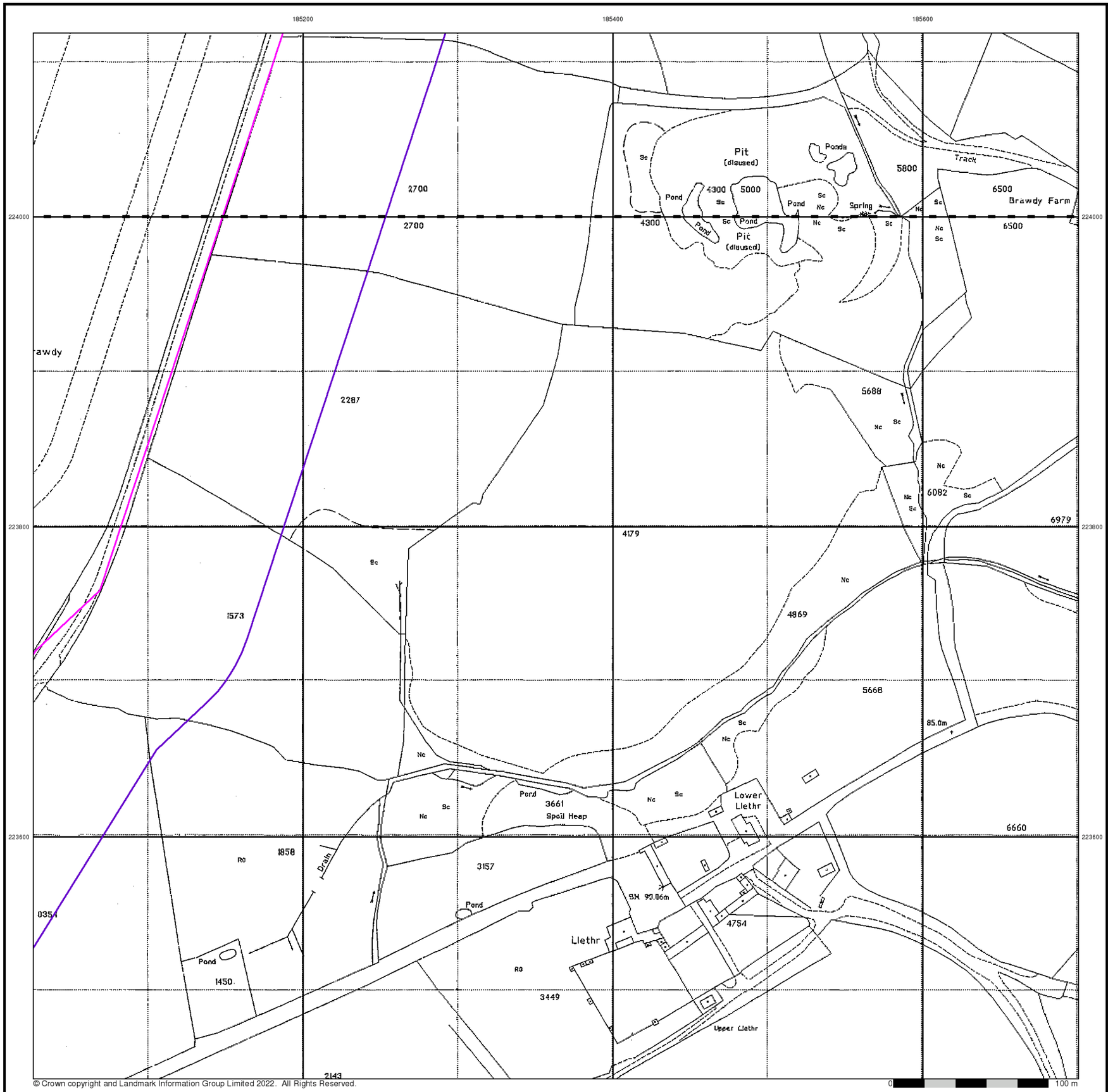
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Large-Scale National Grid Data

Published 1994

Source map scale - 1:2,500

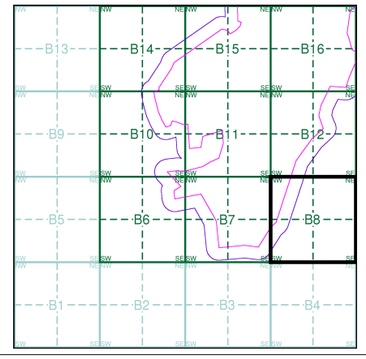
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Map Name(s) and Date(s)

SM8524
1994
1:2,500

SM8523
1994
1:2,500

Historical Map - Segment B8



Order Details

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Site Area (Ha):	308.46
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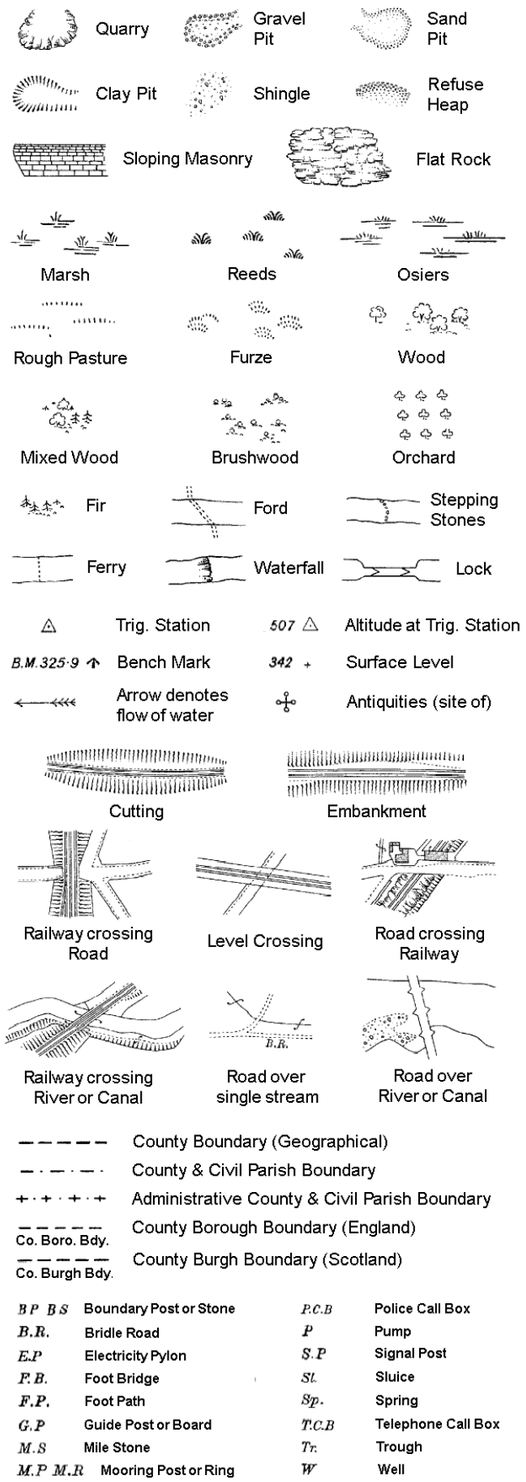
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Historical Mapping Legends

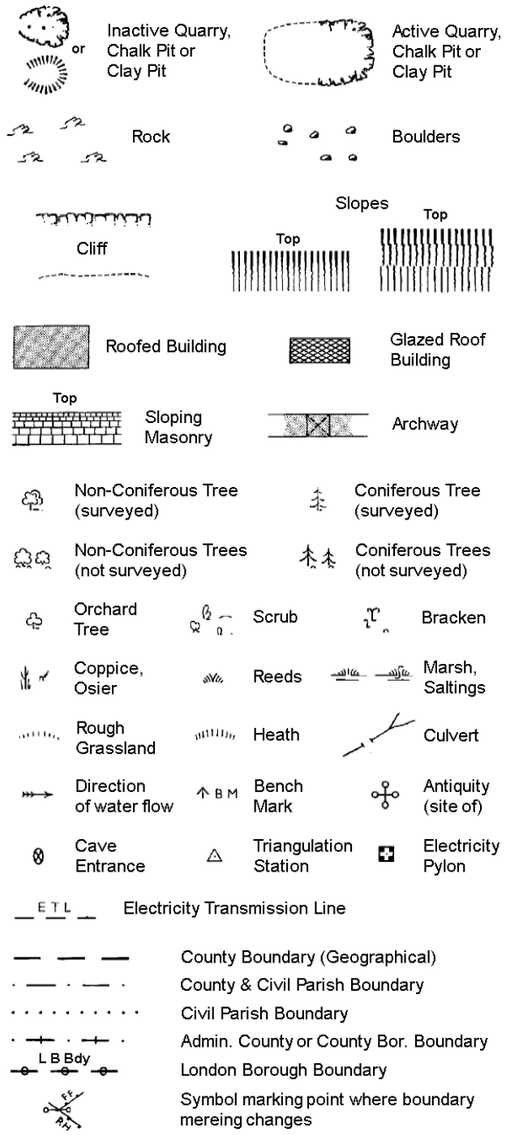
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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
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M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

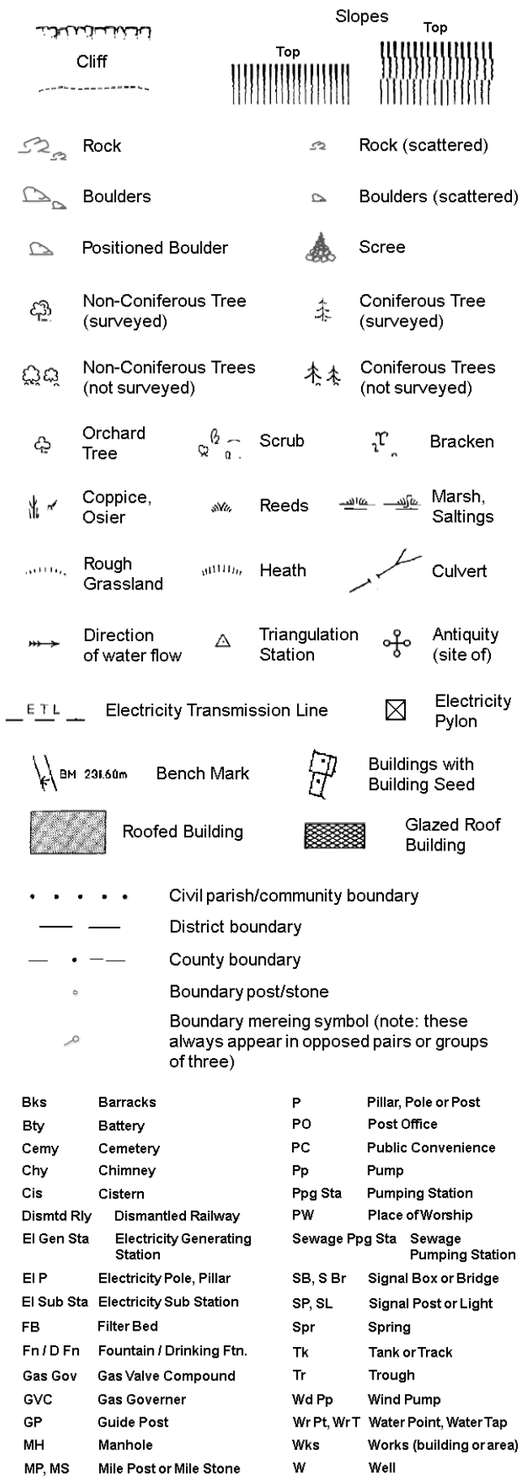
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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
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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)

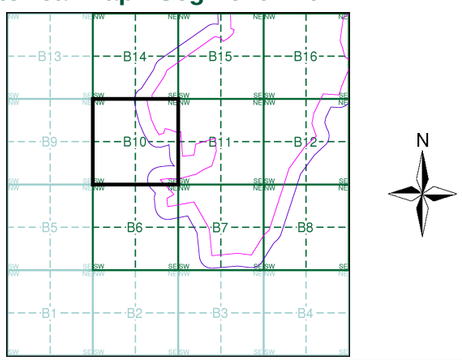
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment B10



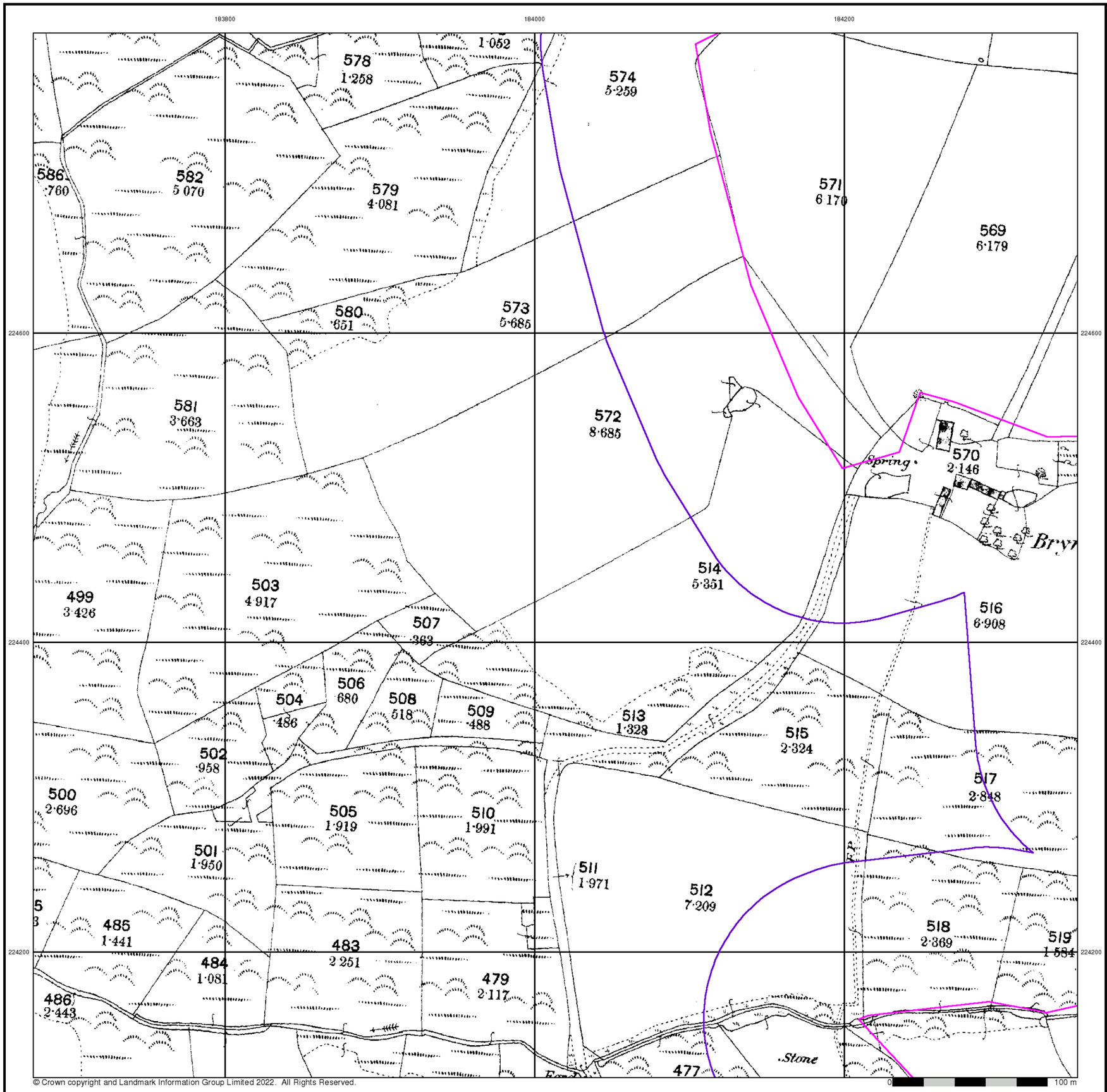
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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0 100 m

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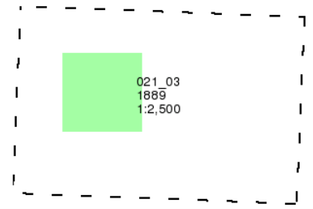
Pembrokeshire

Published 1889

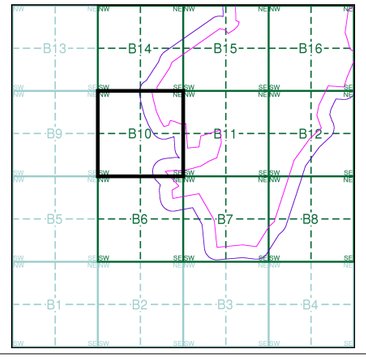
Source map scale - 1:2,500

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 B10



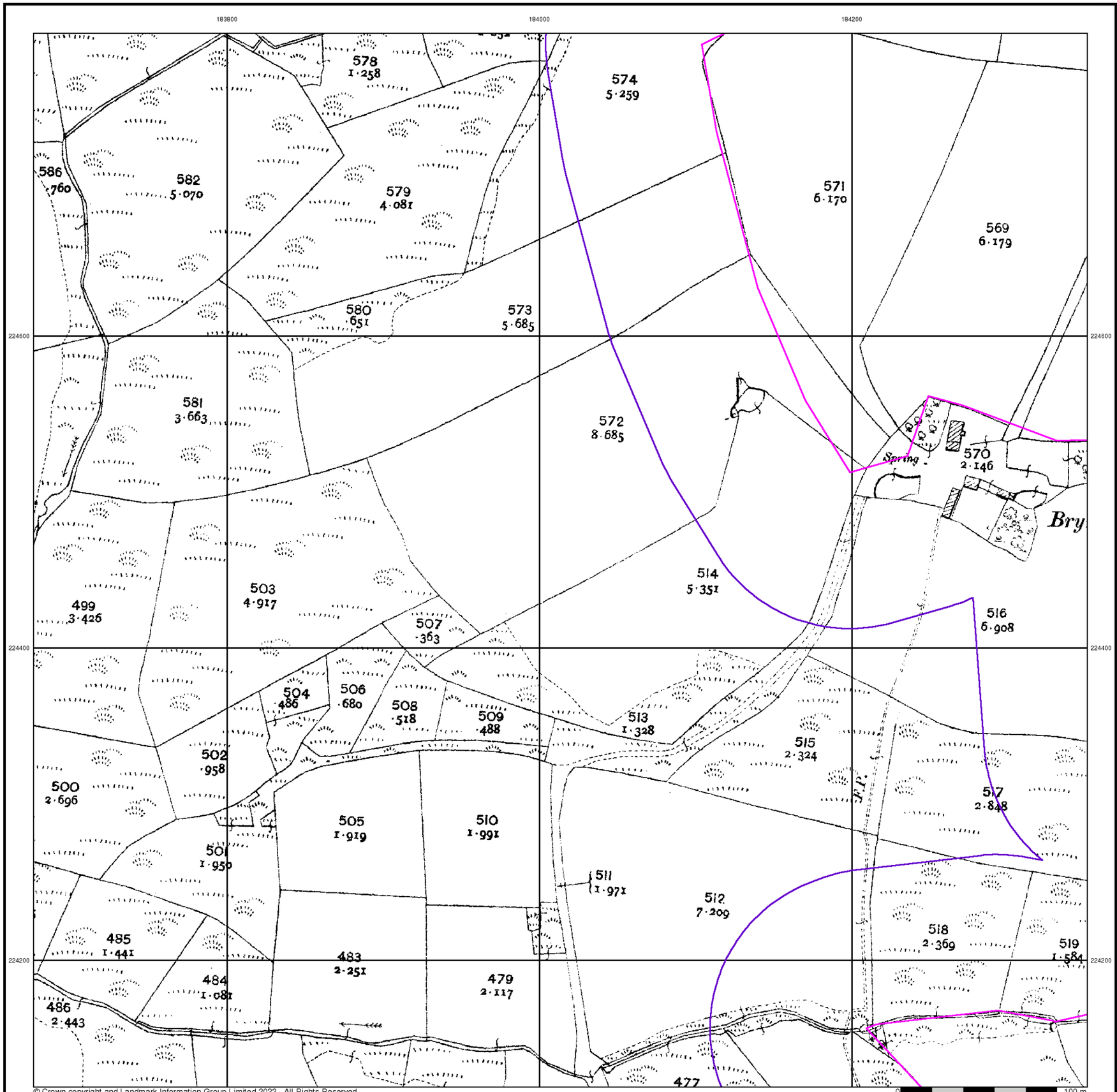
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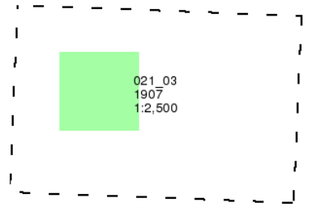
Pembrokeshire

Published 1907

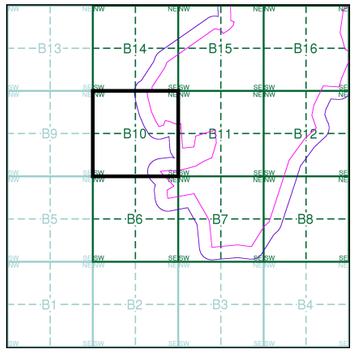
Source map scale - 1:2,500

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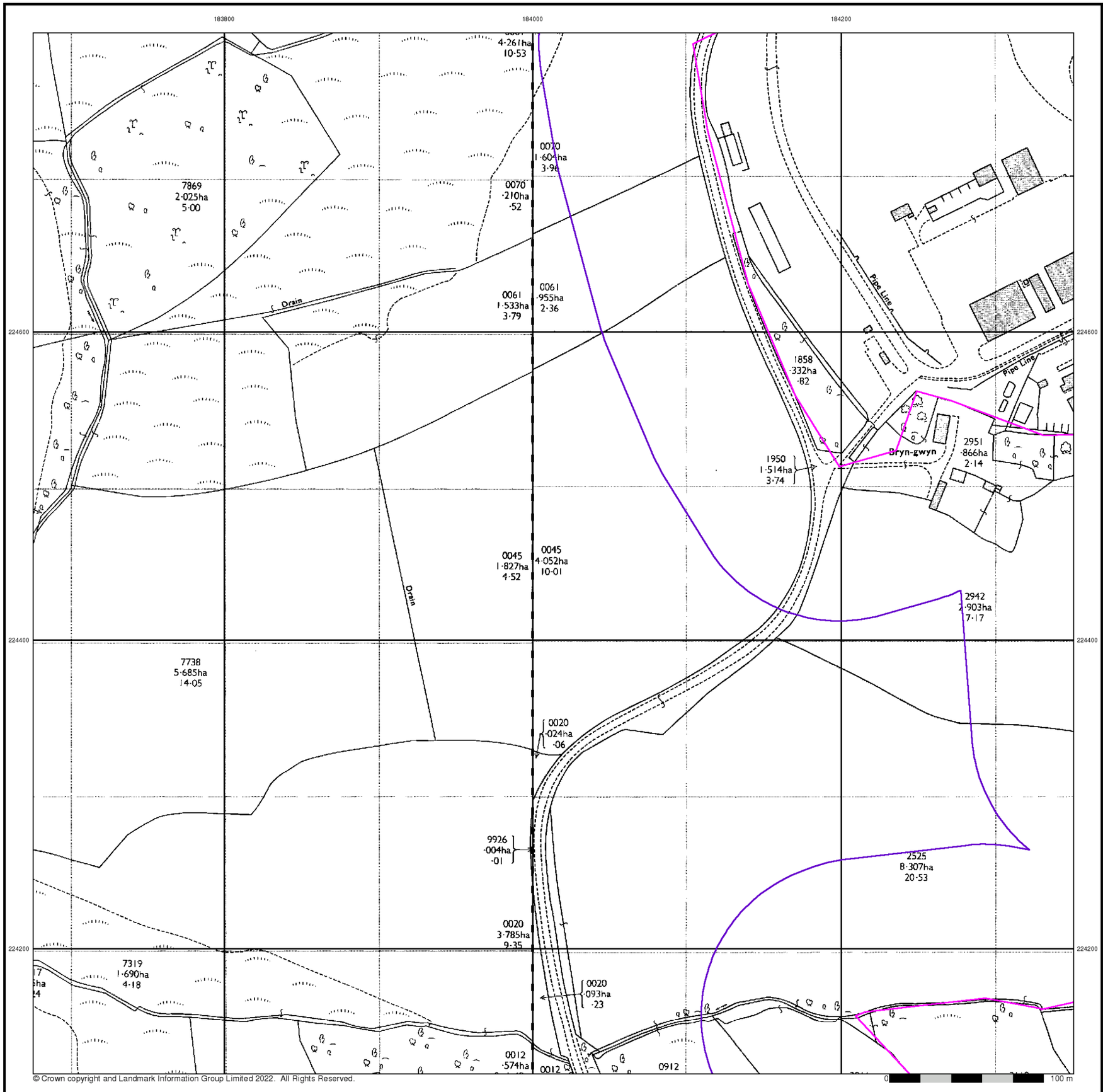
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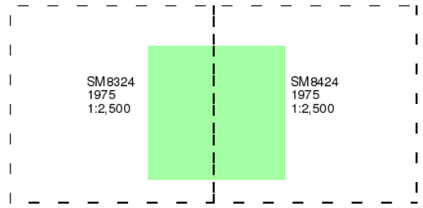
Ordnance Survey Plan

Published 1975

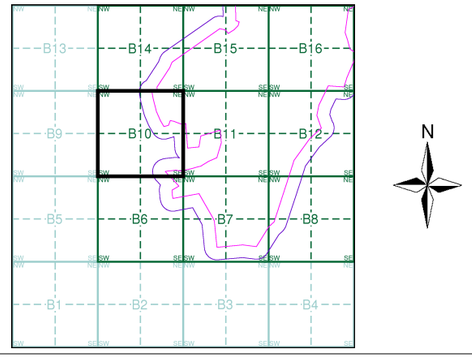
Source map scale - 1:2,500

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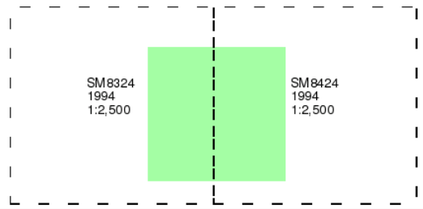
Large-Scale National Grid Data

Published 1994

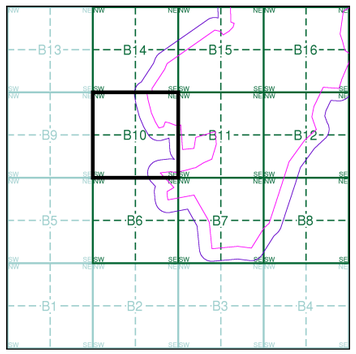
Source map scale - 1:2,500

'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 B10



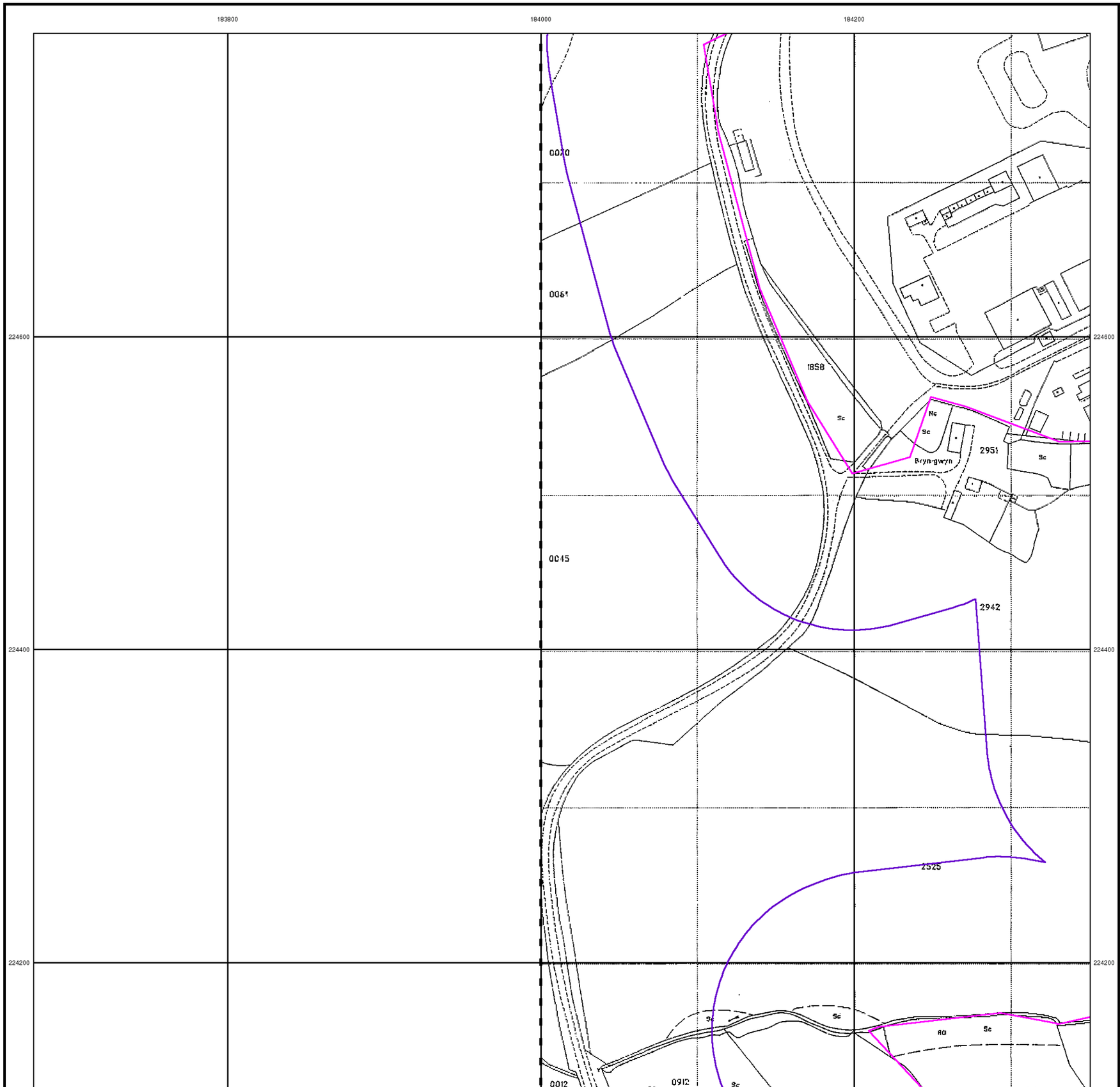
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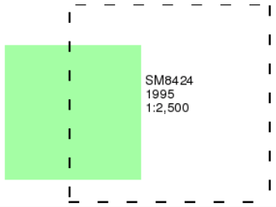
Large-Scale National Grid Data

Published 1995

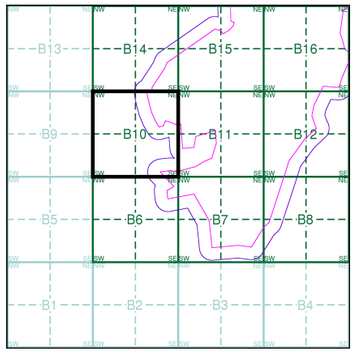
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment B10



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Slice:	B
Site Area (Ha):	308.46
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Site Details

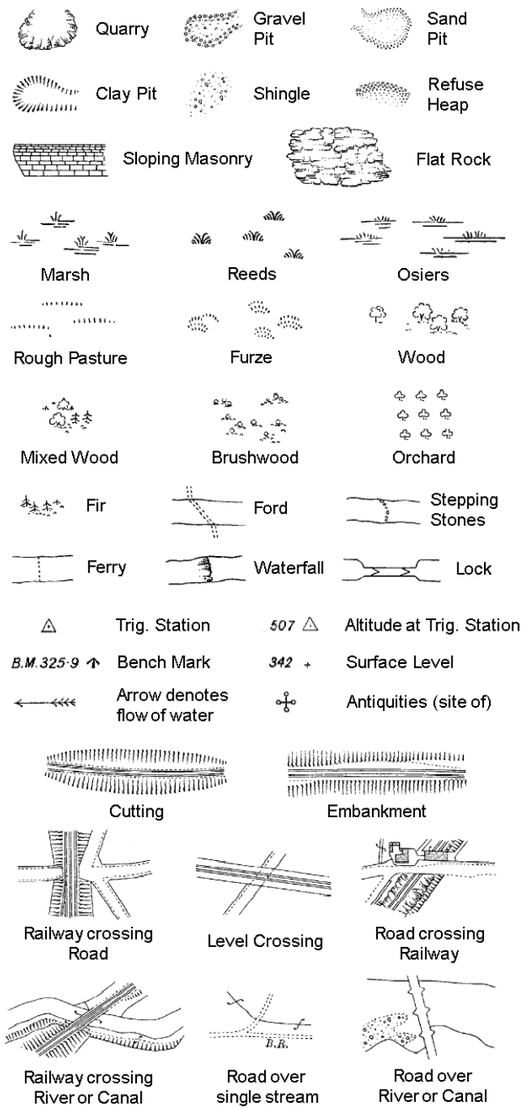
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Historical Mapping Legends

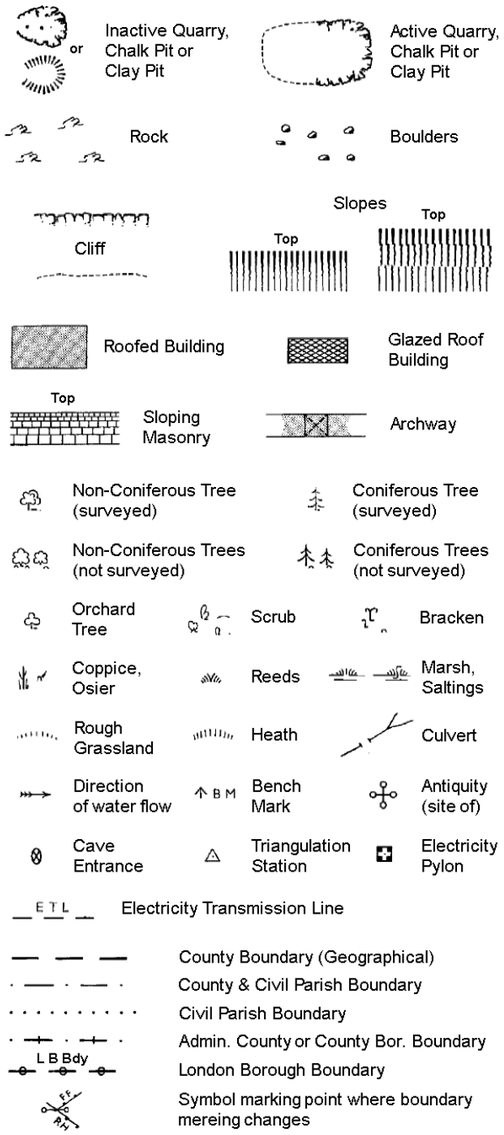
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

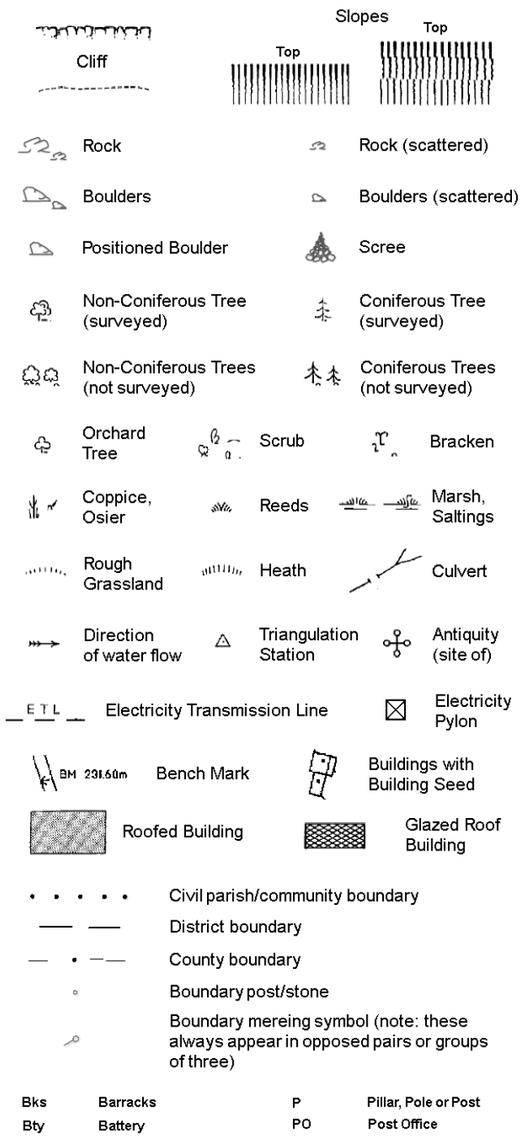
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

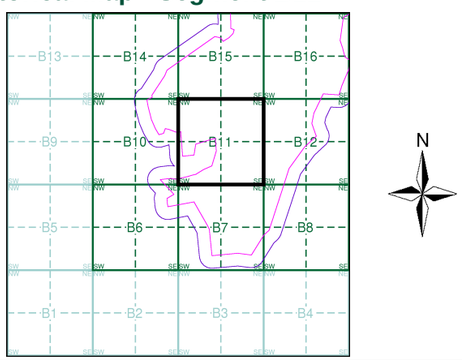
Bks	Barracks	P	Pillar, Pole or Post
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Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
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Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
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
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Large-Scale National Grid Data	1:2,500	1994	5
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Historical Map - Segment B11



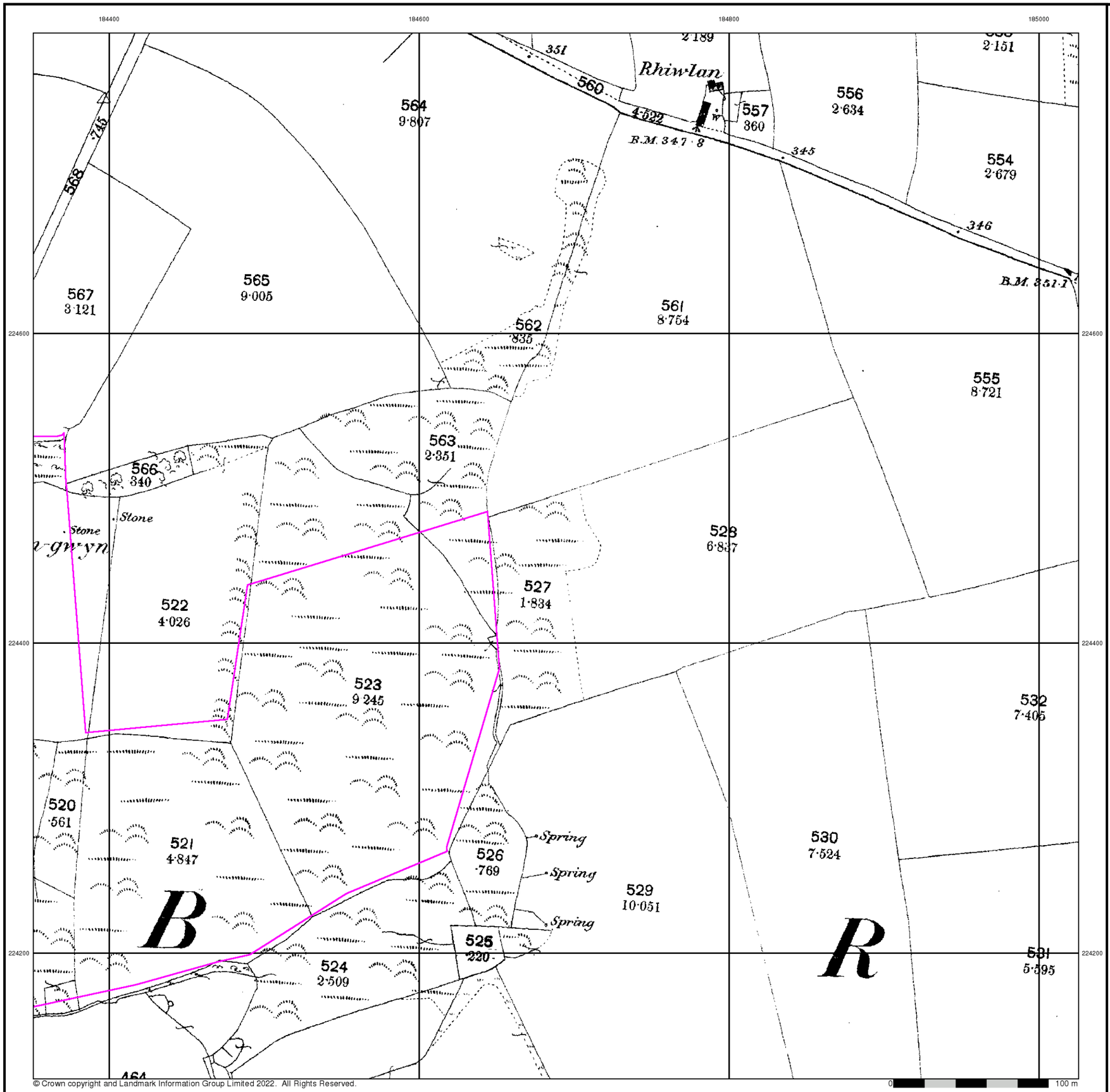
Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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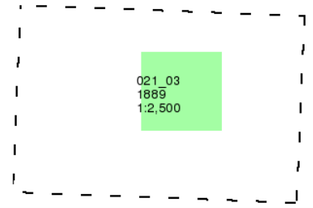
Pembrokeshire

Published 1889

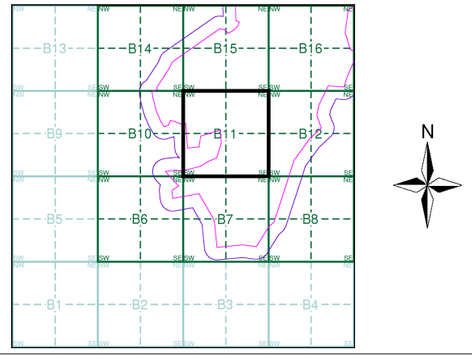
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment B11



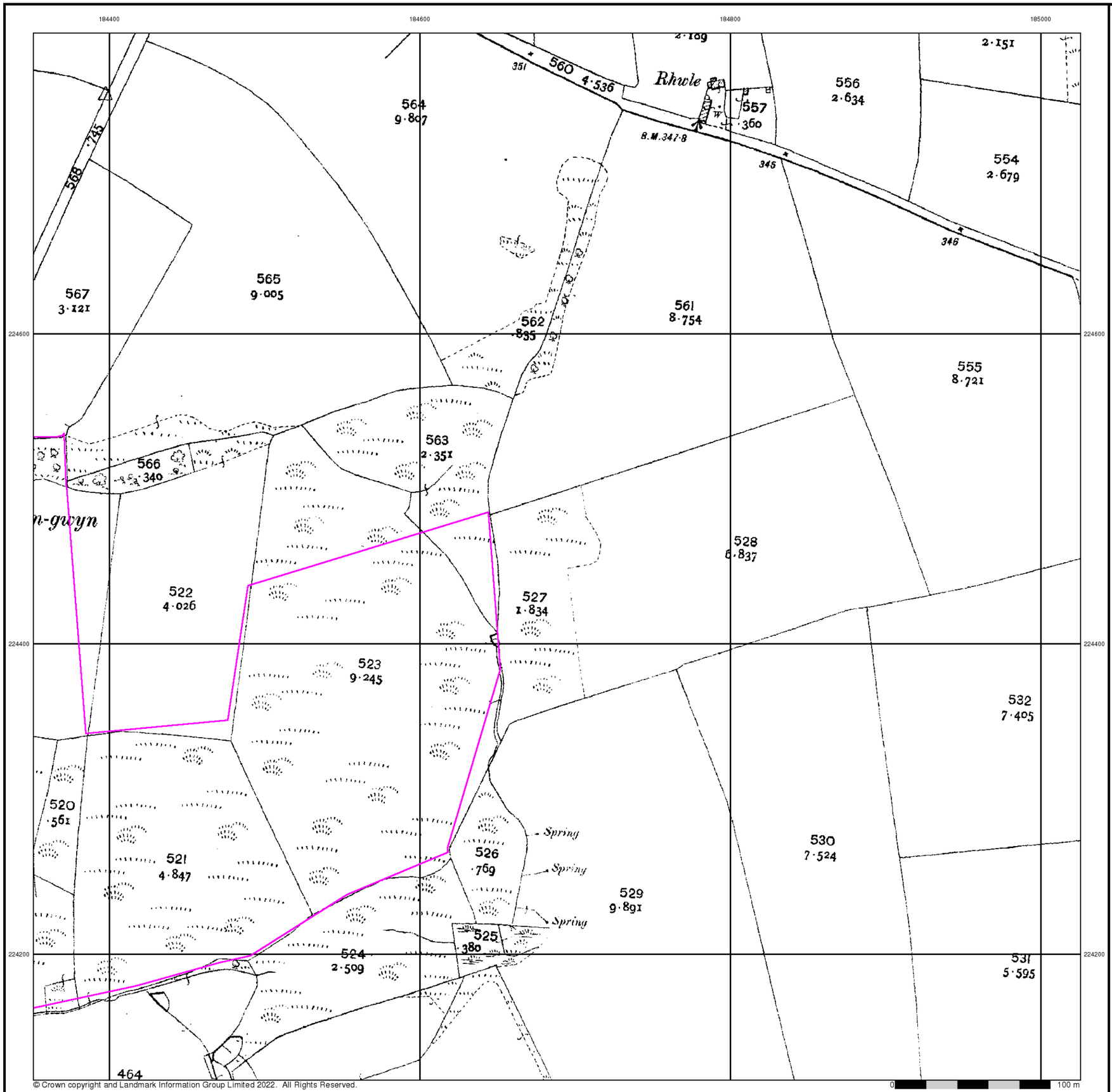
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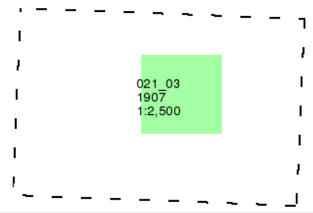
Pembrokeshire

Published 1907

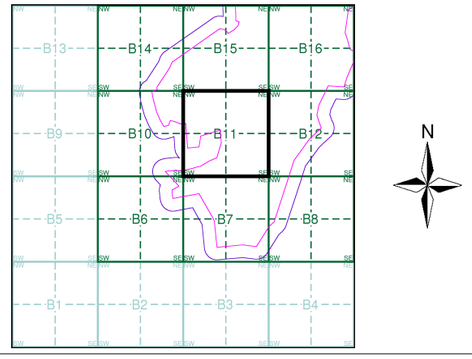
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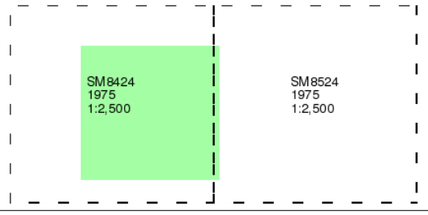
Ordnance Survey Plan

Published 1975

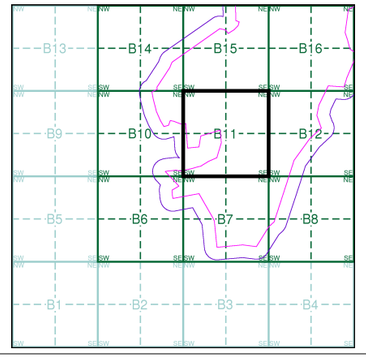
Source map scale - 1:2,500

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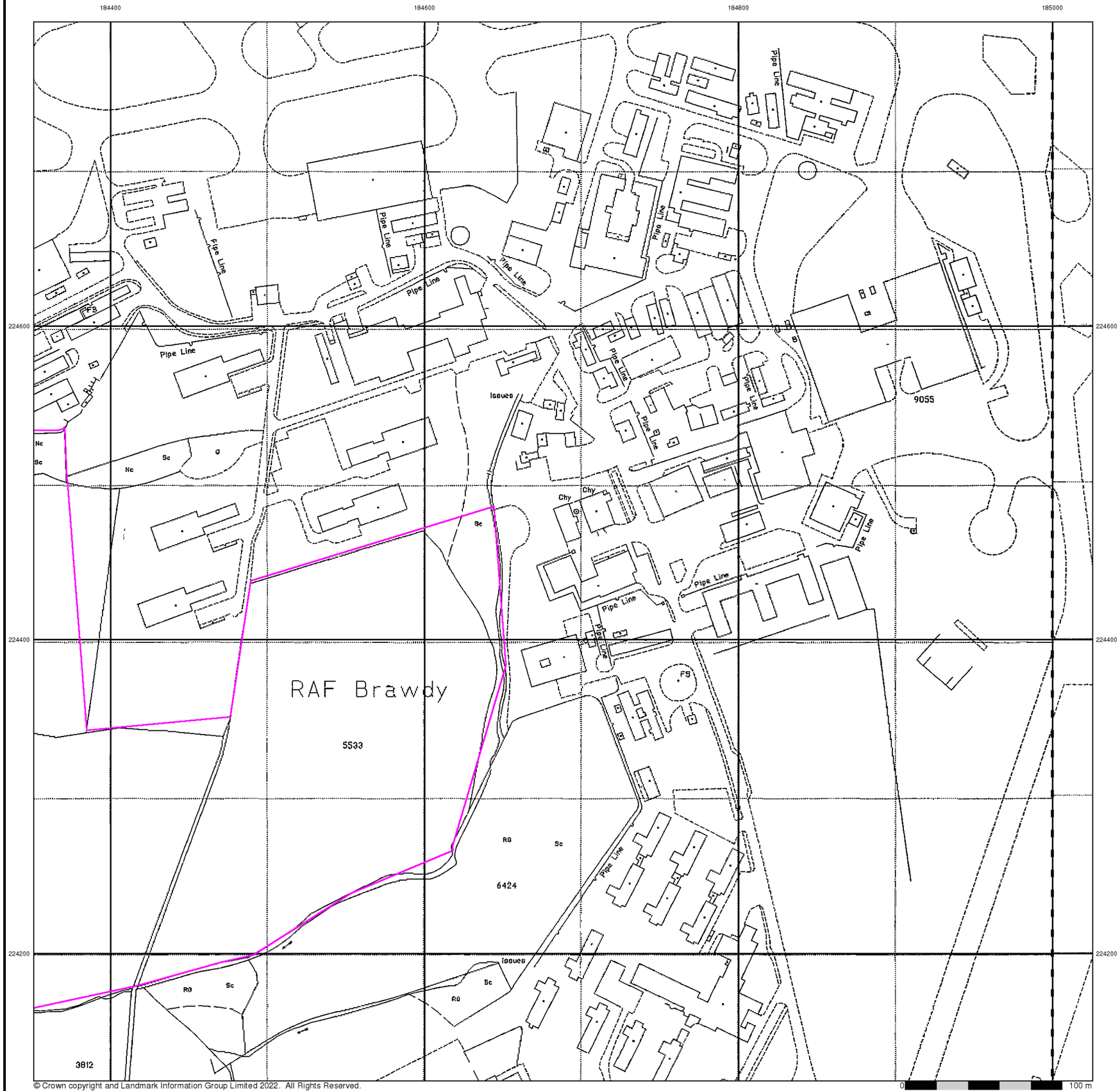
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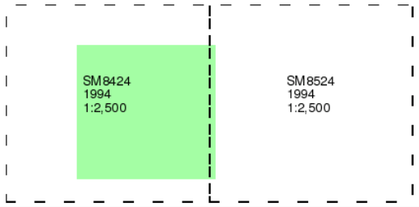
Large-Scale National Grid Data

Published 1994

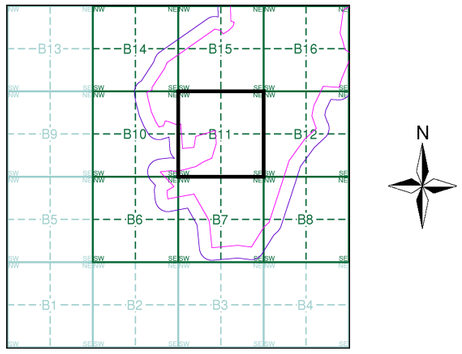
Source map scale - 1:2,500

'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 B11



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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Web: www.envirocheck.co.uk



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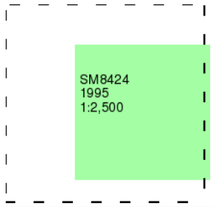
Large-Scale National Grid Data

Published 1995

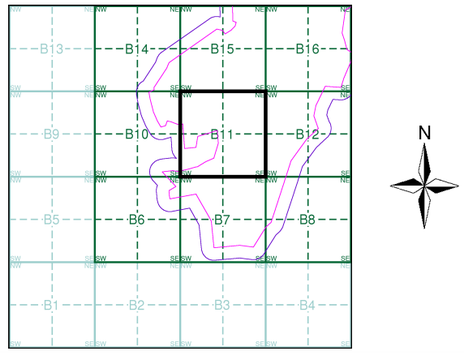
Source map scale - 1:2,500

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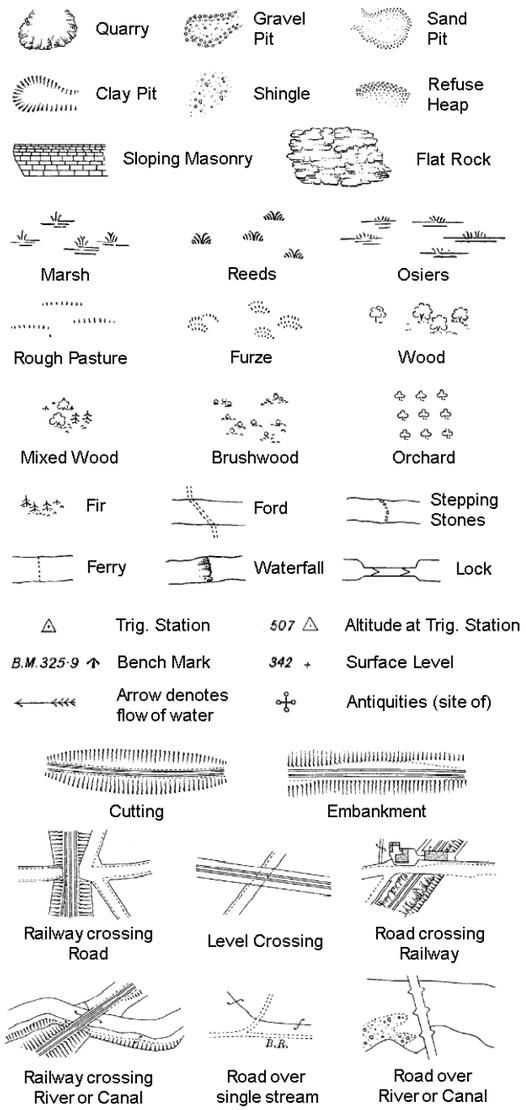
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

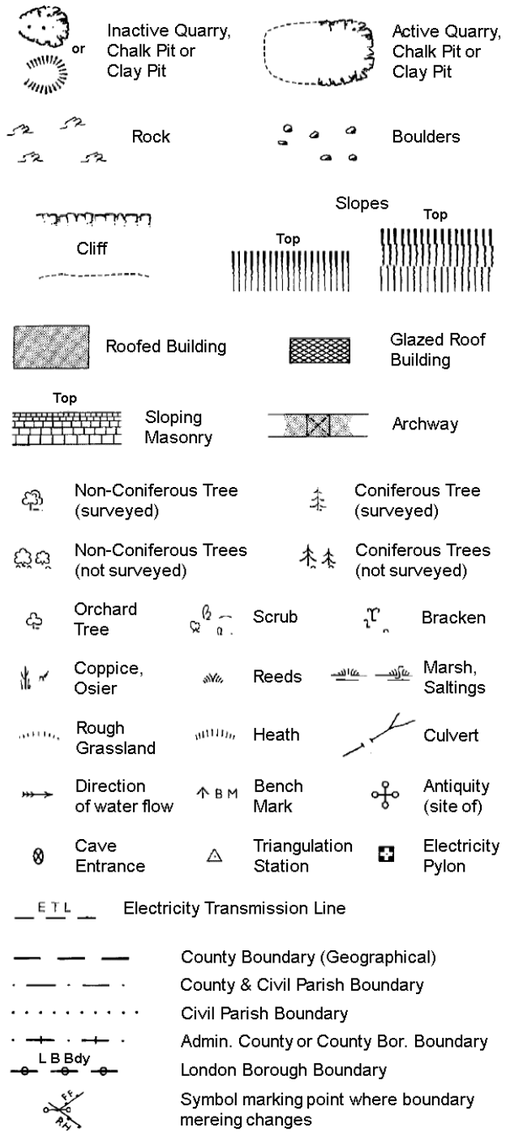
Administrative County & Civil Parish Boundary

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

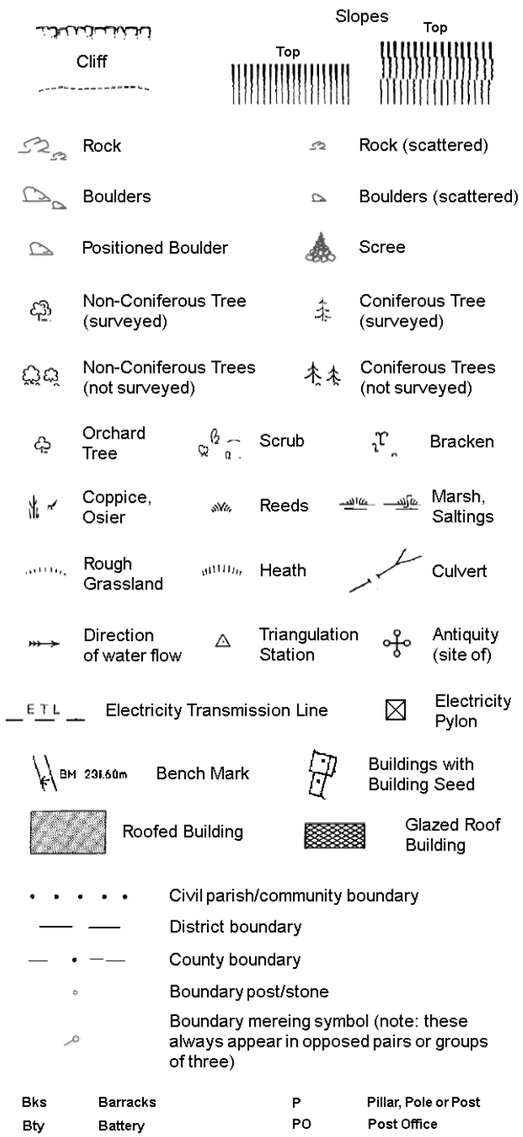
Admin. County or County Bor. Boundary

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)

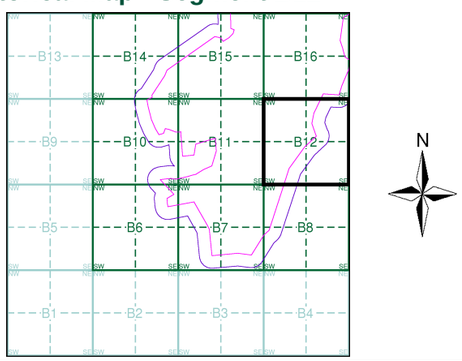
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment B12



Order Details

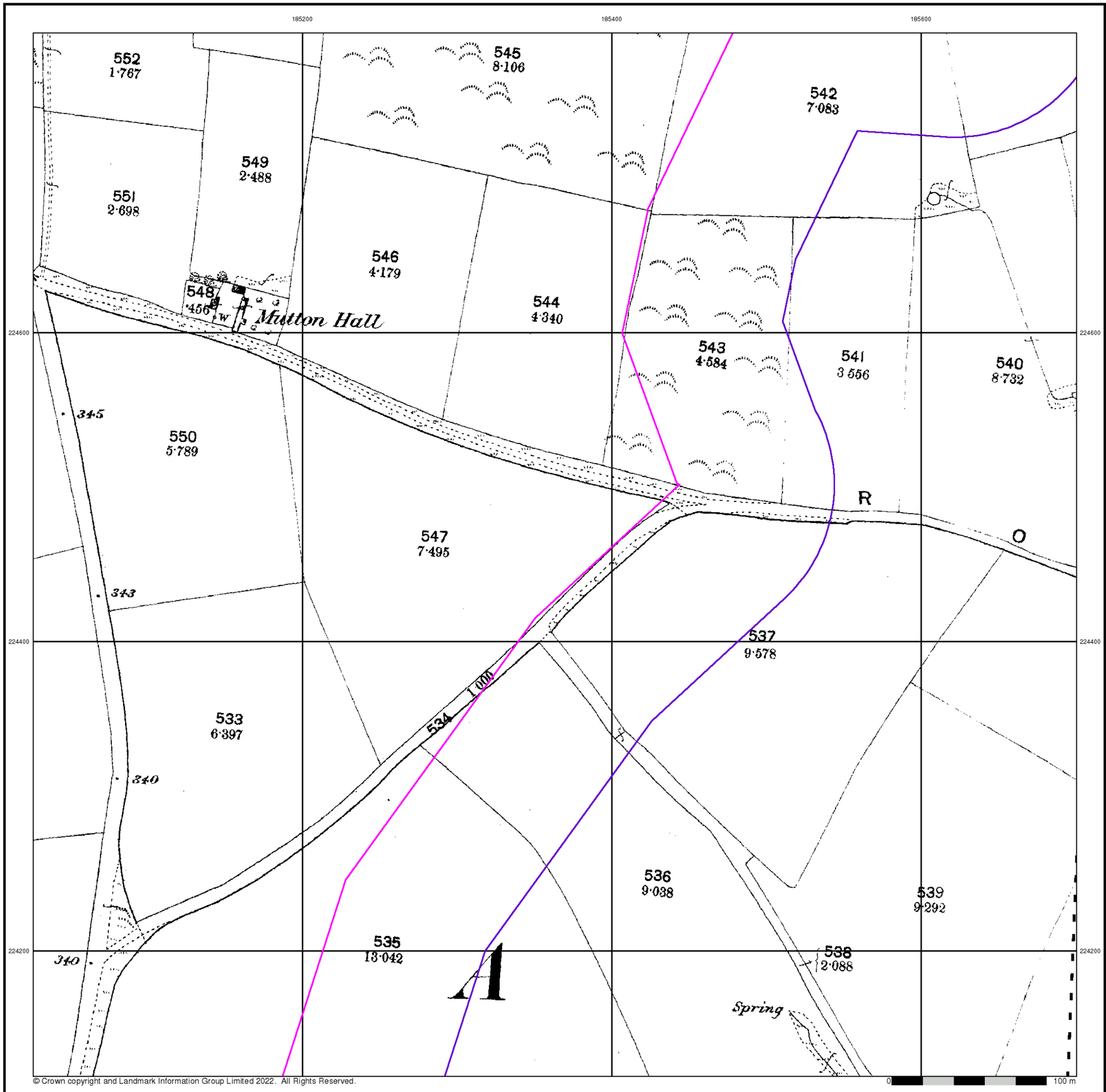
Order Number:	305022956_1_1
Customer Ref:	65208061
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Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	100

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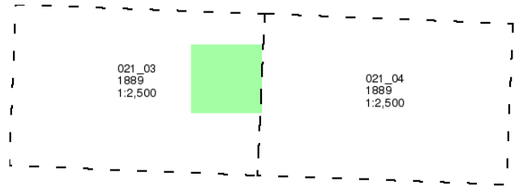
Pembrokeshire

Published 1889

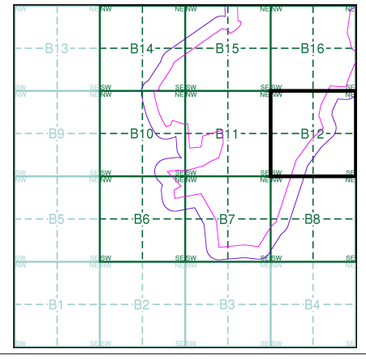
Source map scale - 1:2,500

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 B12



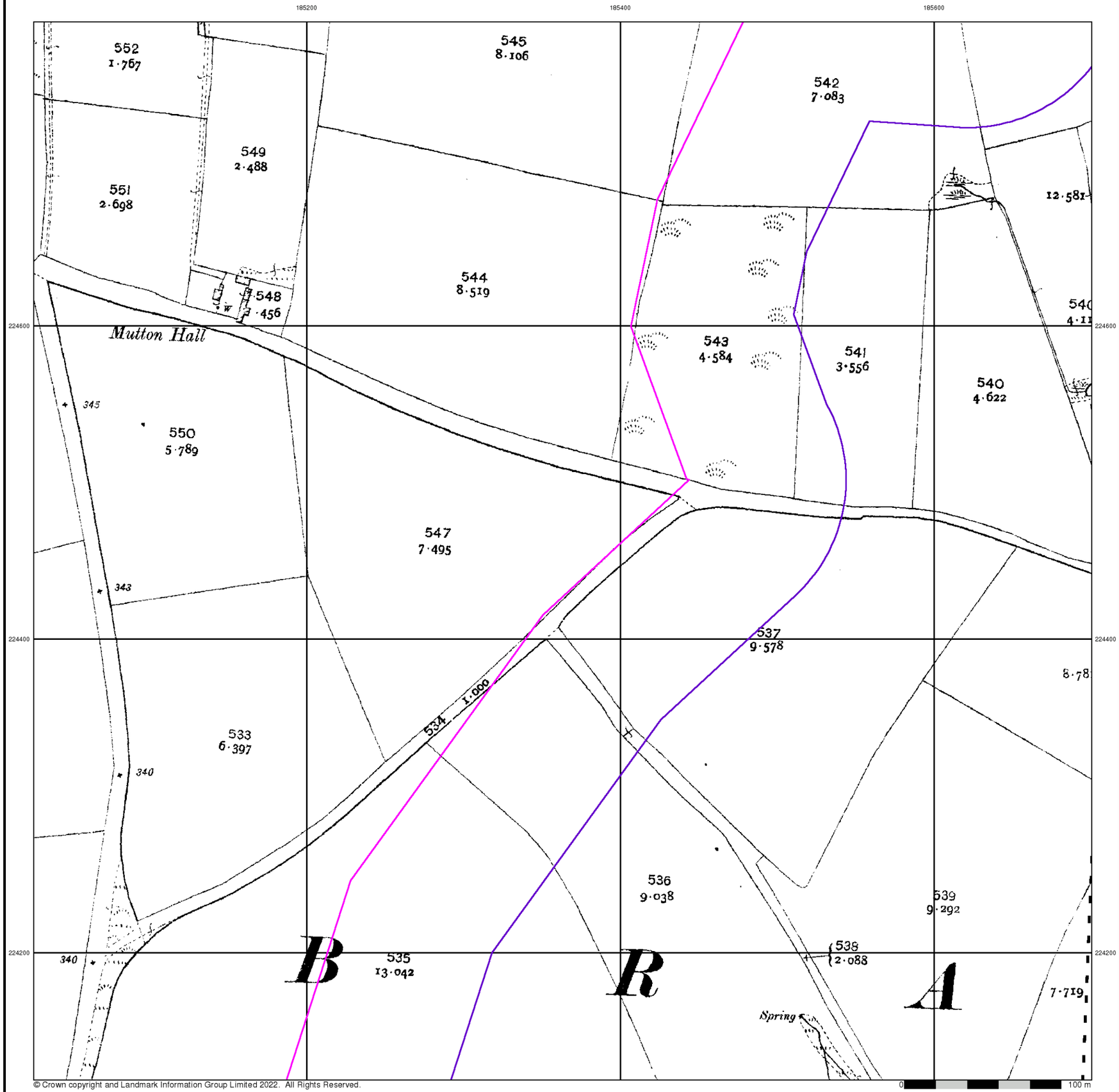
Order Details

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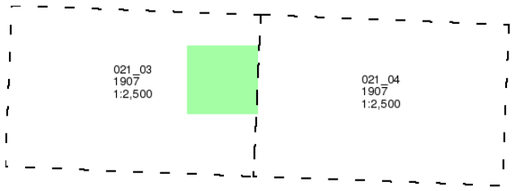
Pembrokeshire

Published 1907

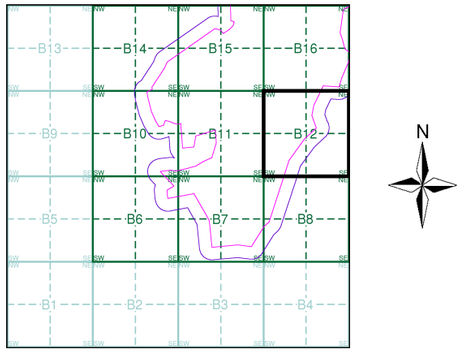
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment B12



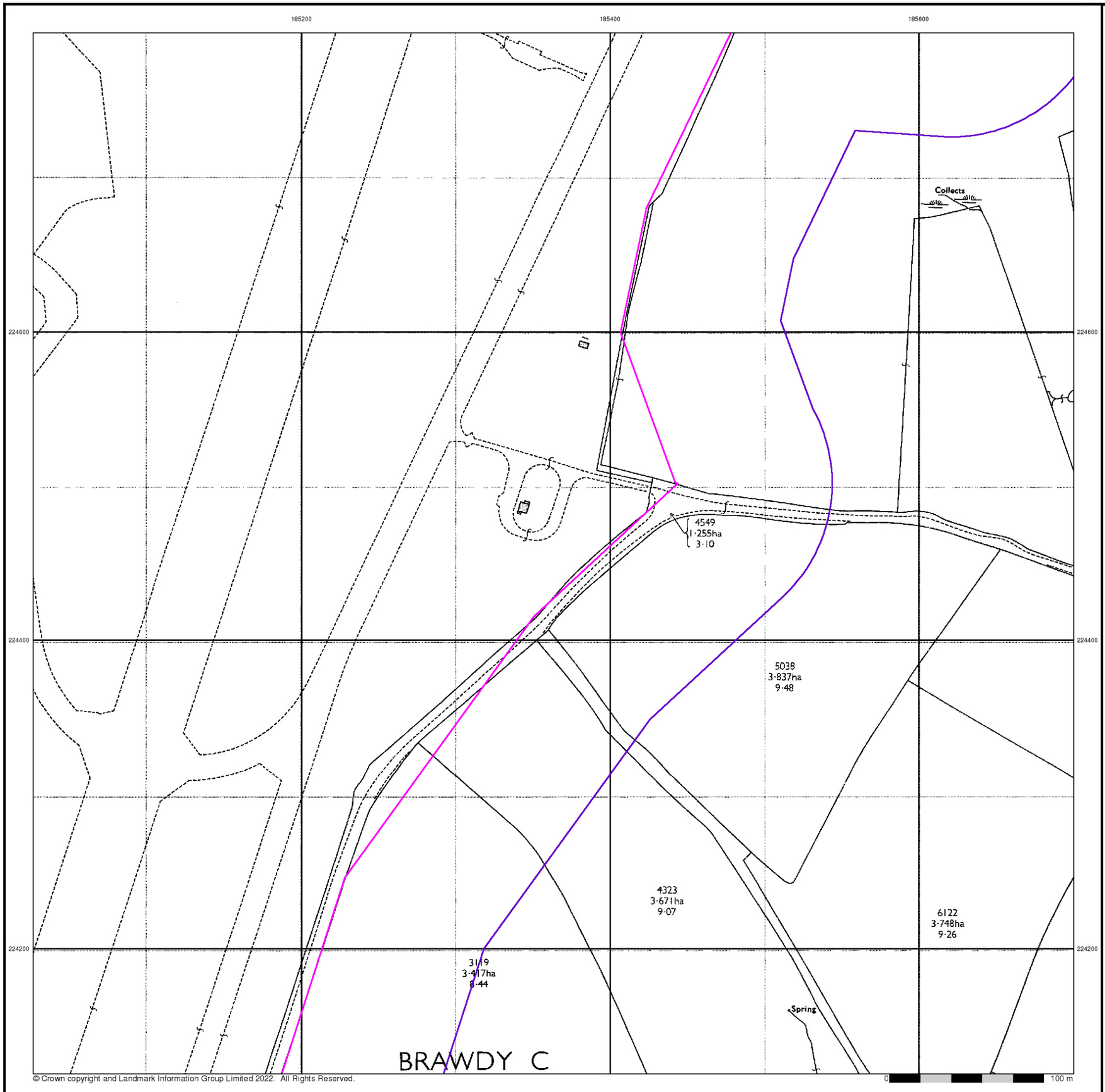
Order Details

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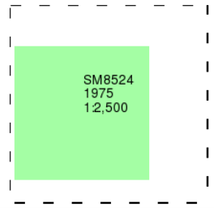
Ordnance Survey Plan

Published 1975

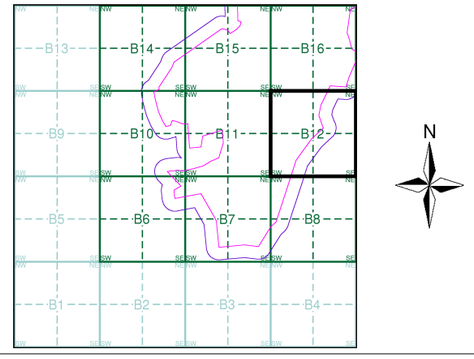
Source map scale - 1:2,500

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Historical Map - Segment B12



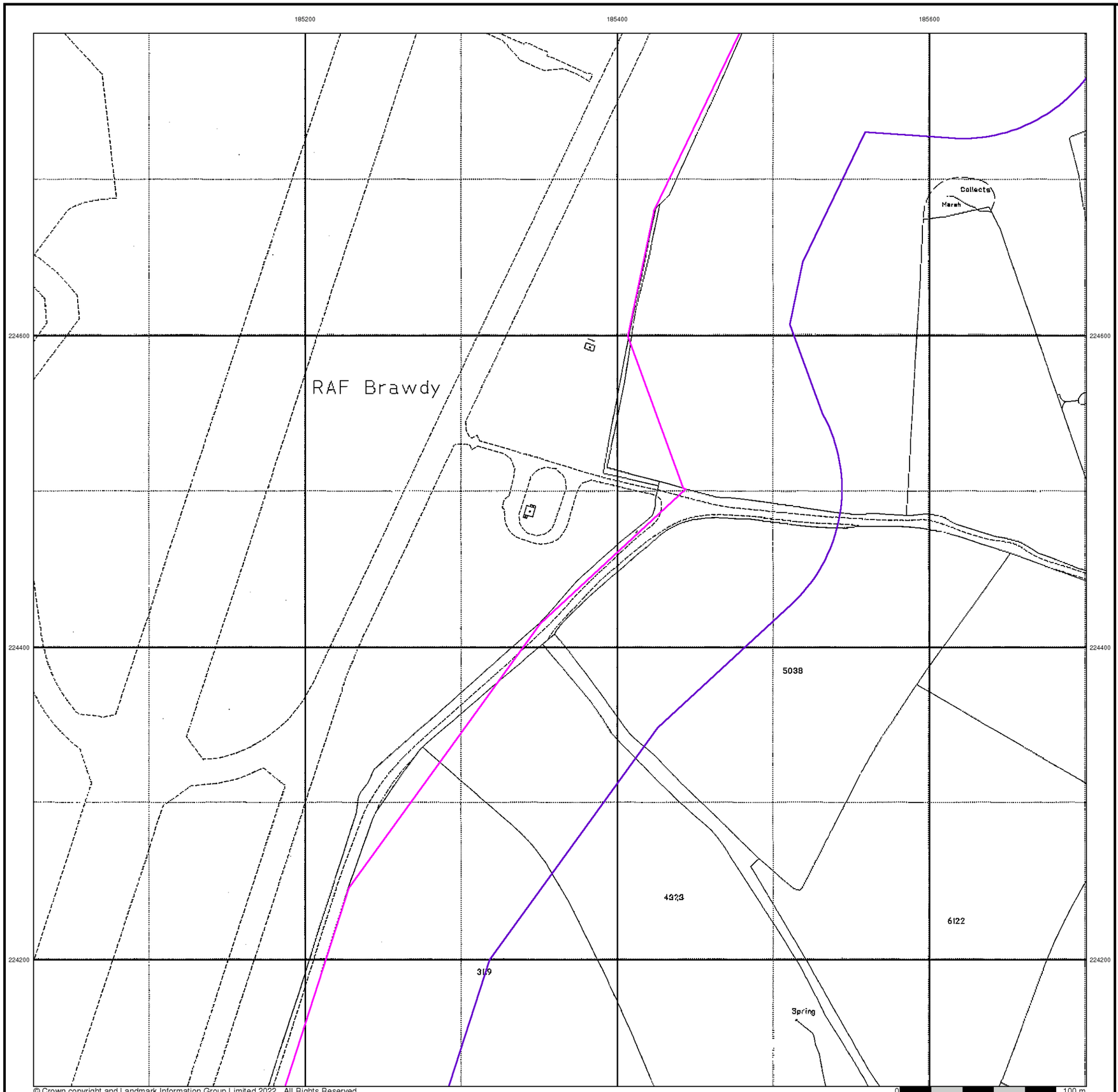
Order Details

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Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
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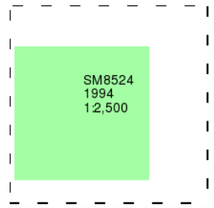
Large-Scale National Grid Data

Published 1994

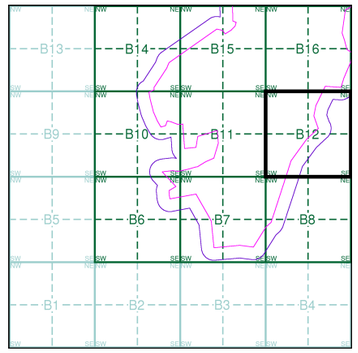
Source map scale - 1:2,500

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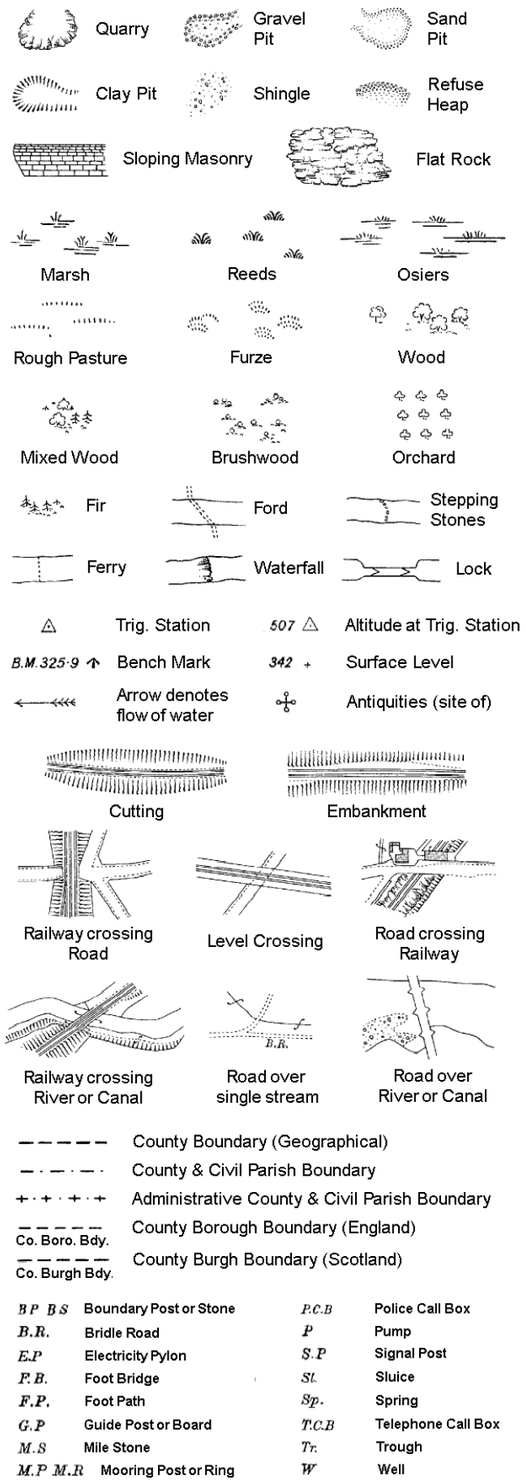
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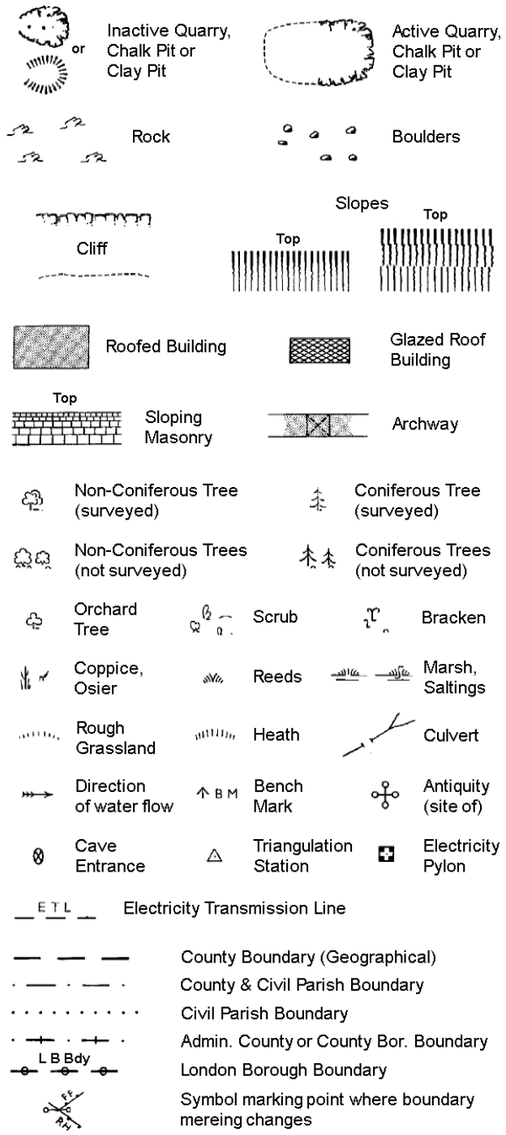
Historical Mapping Legends

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



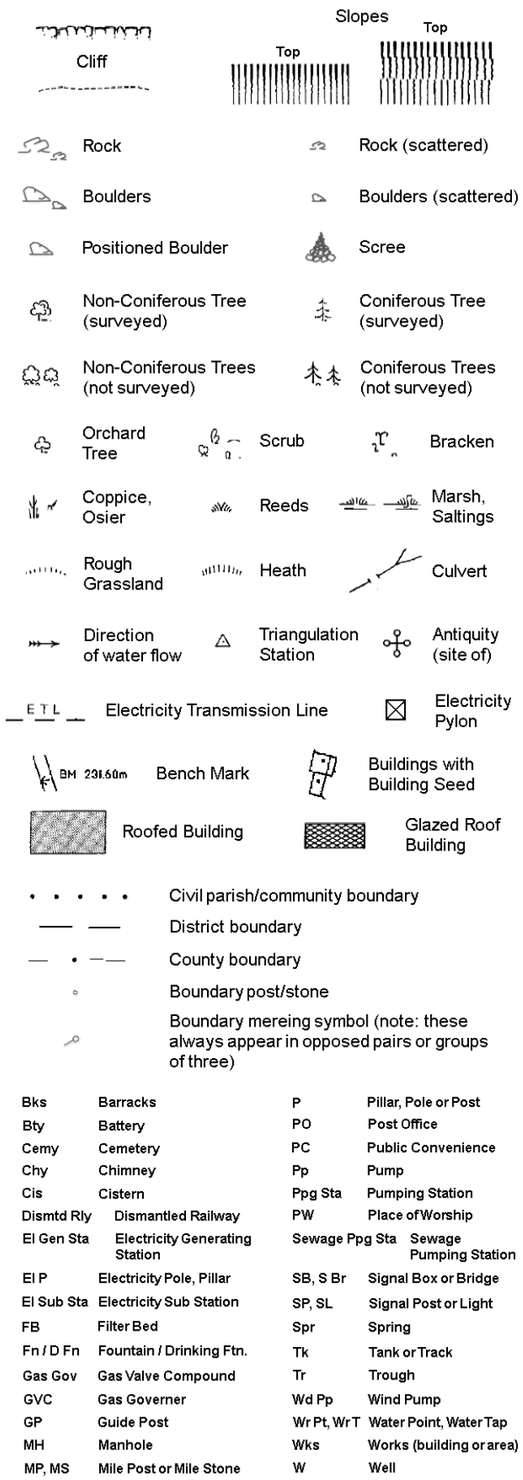
B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



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
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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



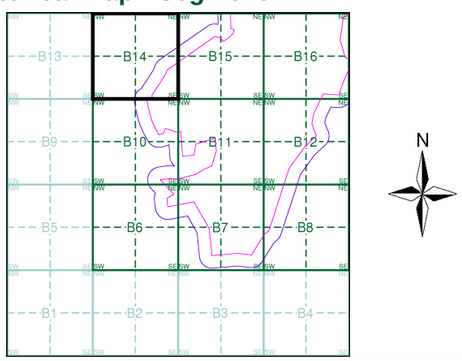
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment B14



Order Details

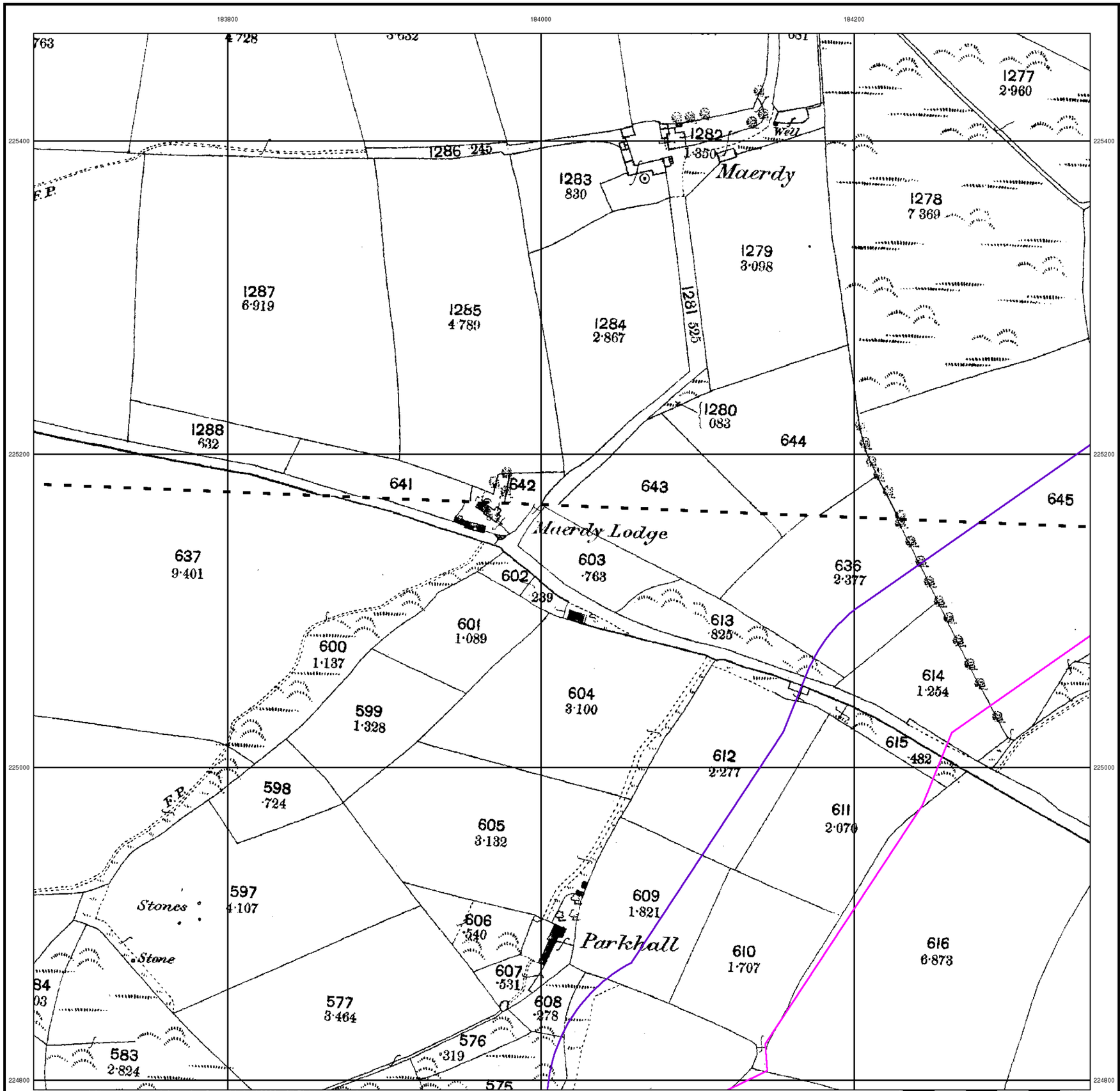
Order Number:	305022956_1_1
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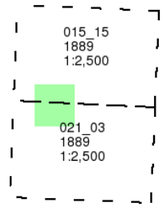
Pembrokeshire

Published 1889

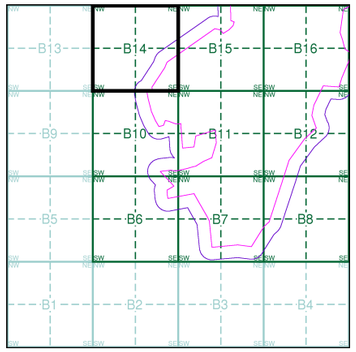
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment B14



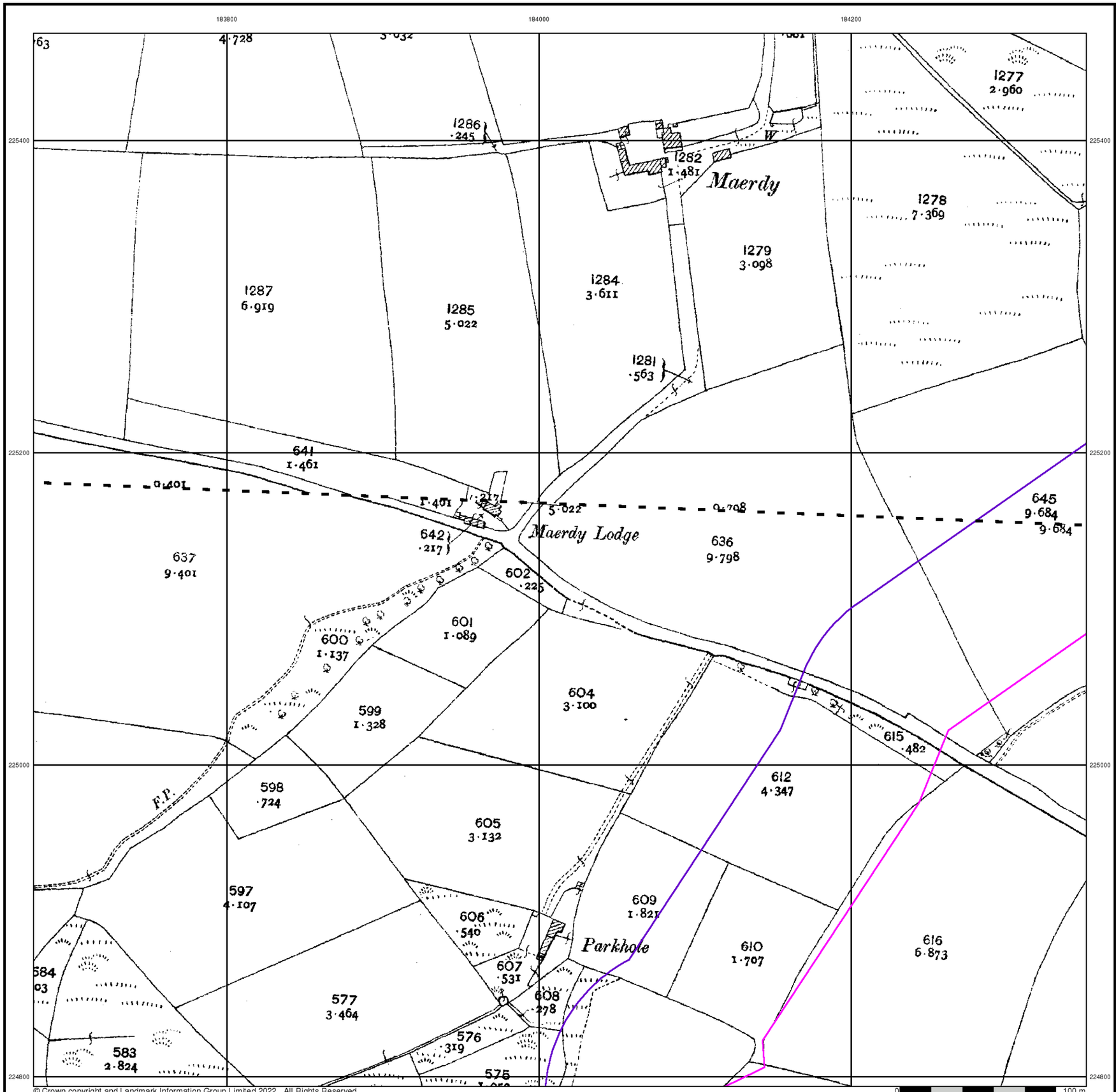
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0 100 m

SWECO

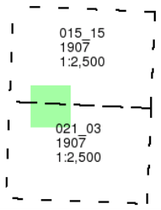
Pembrokeshire

Published 1907

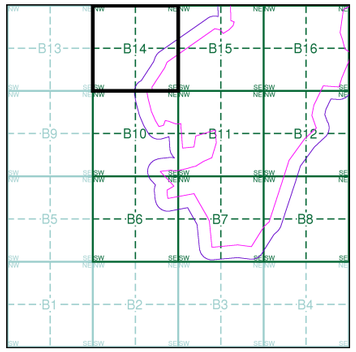
Source map scale - 1:2,500

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 B14



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184500, 224180
Slice:	B
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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



SWECO

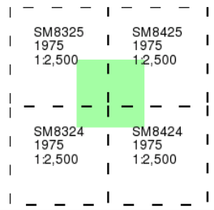
Ordnance Survey Plan

Published 1975

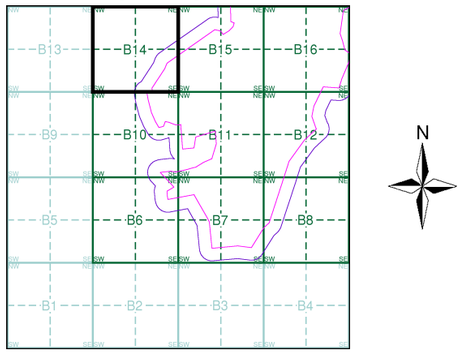
Source map scale - 1:2,500

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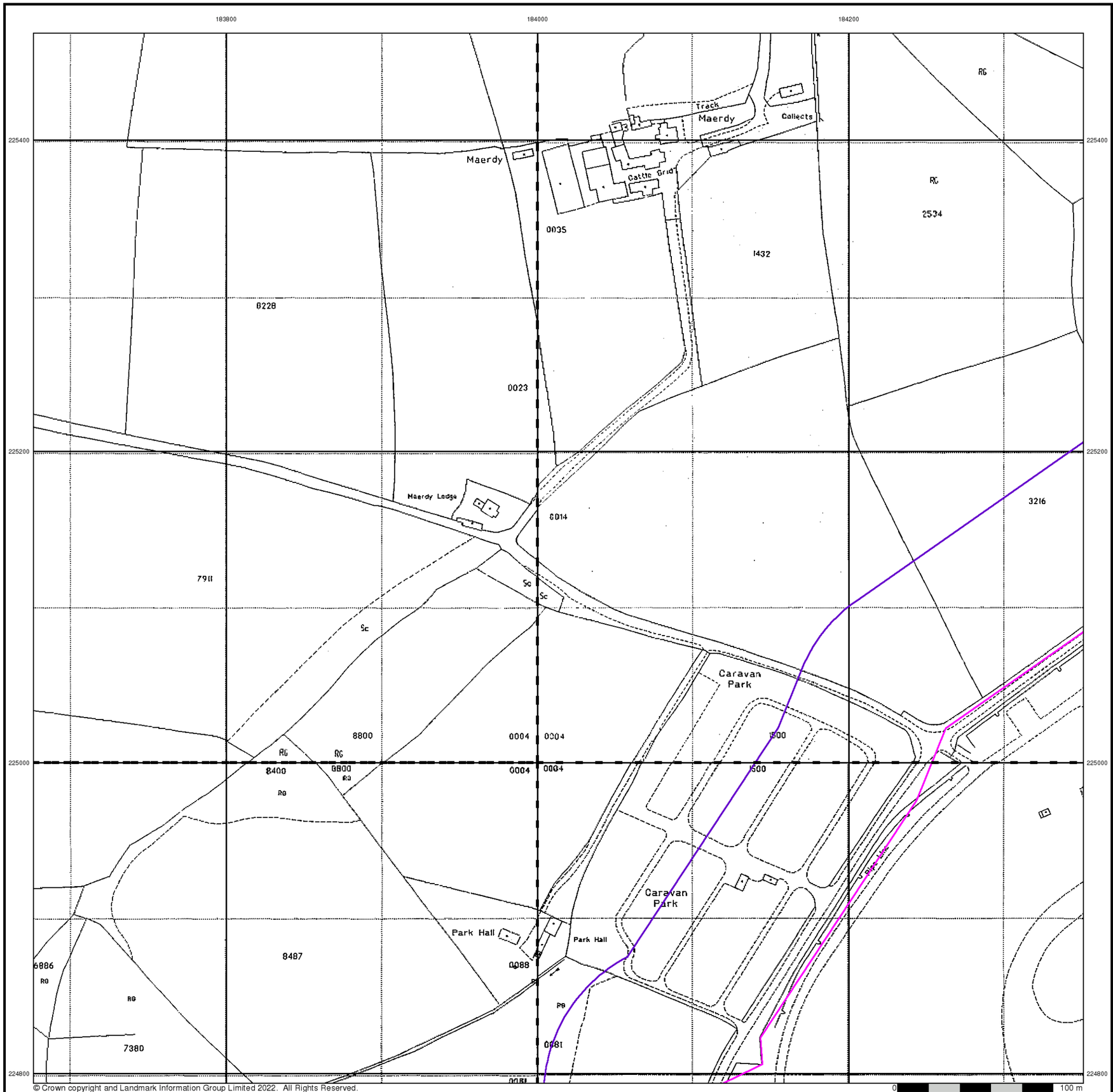
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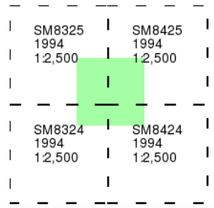
Large-Scale National Grid Data

Published 1994

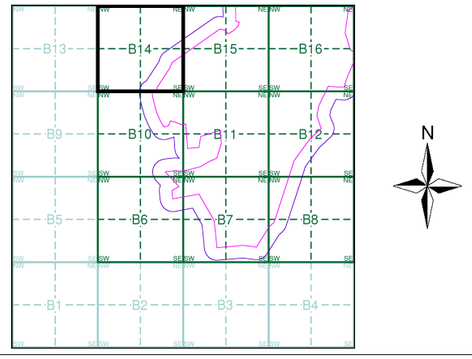
Source map scale - 1:2,500

'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 B14



Order Details

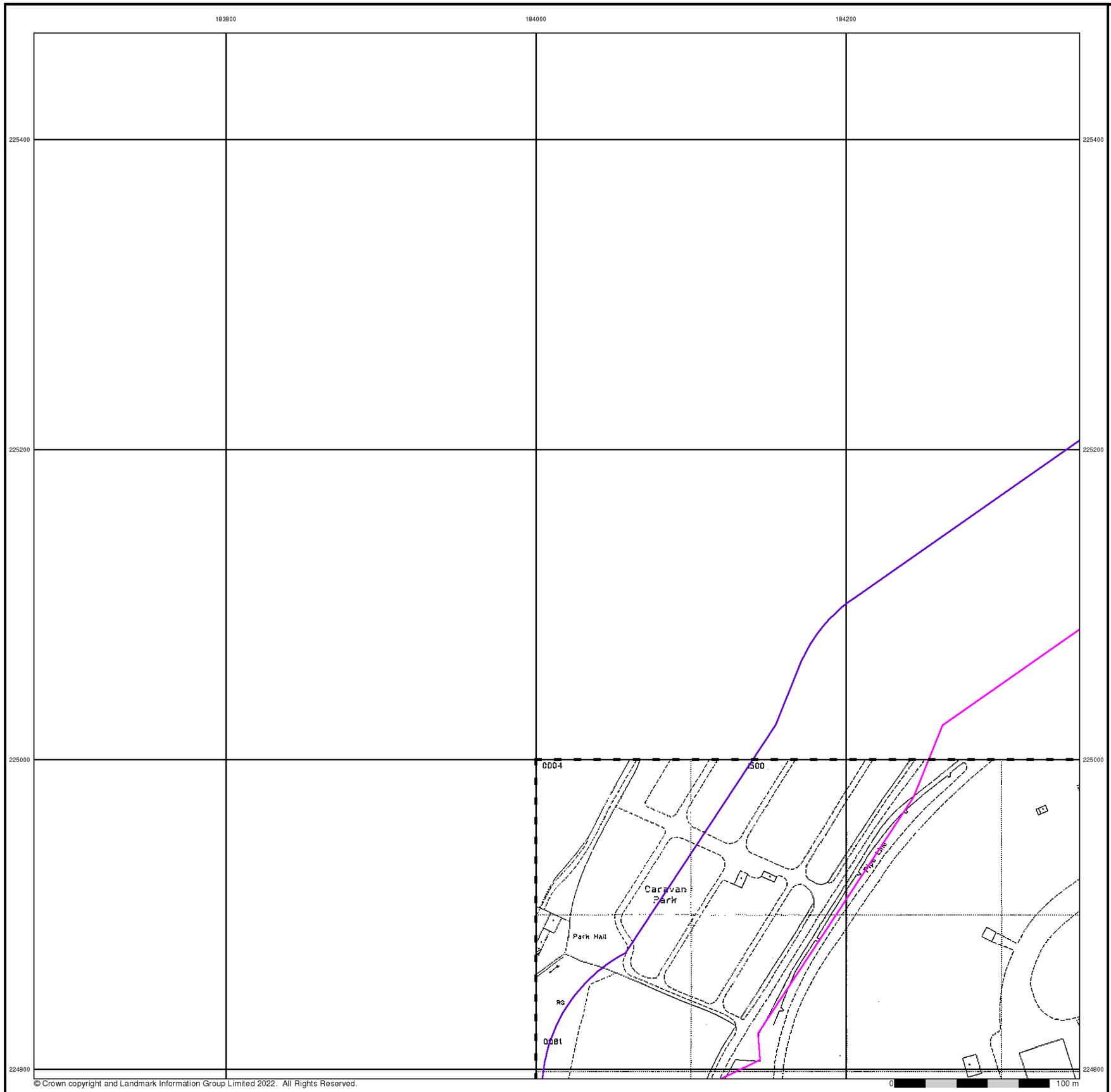
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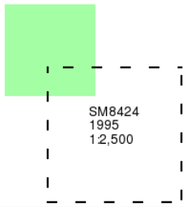
Large-Scale National Grid Data

Published 1995

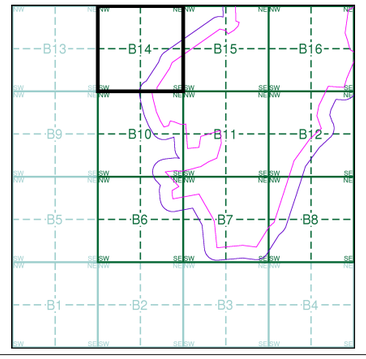
Source map scale - 1:2,500

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Map Name(s) and Date(s)



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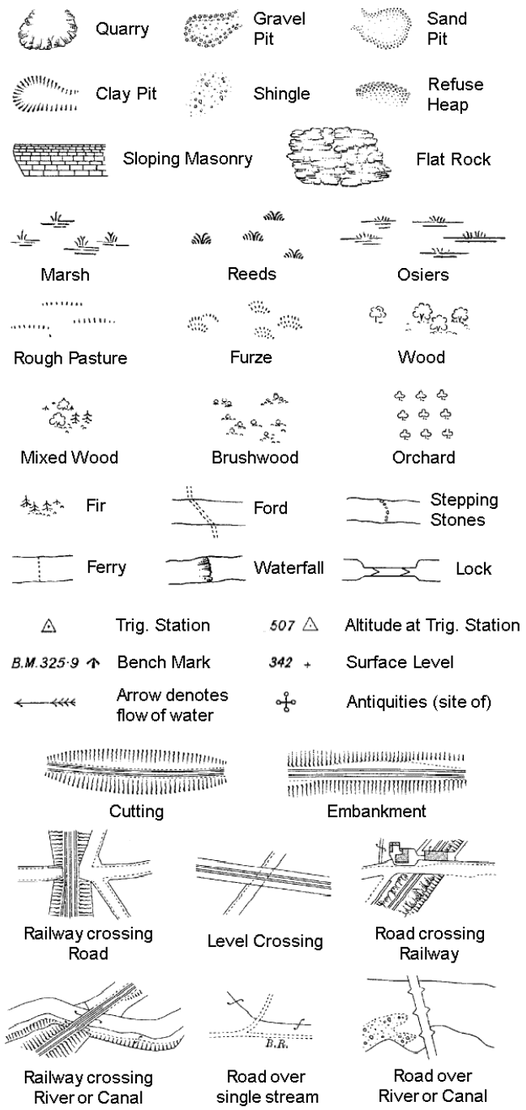
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Historical Mapping Legends

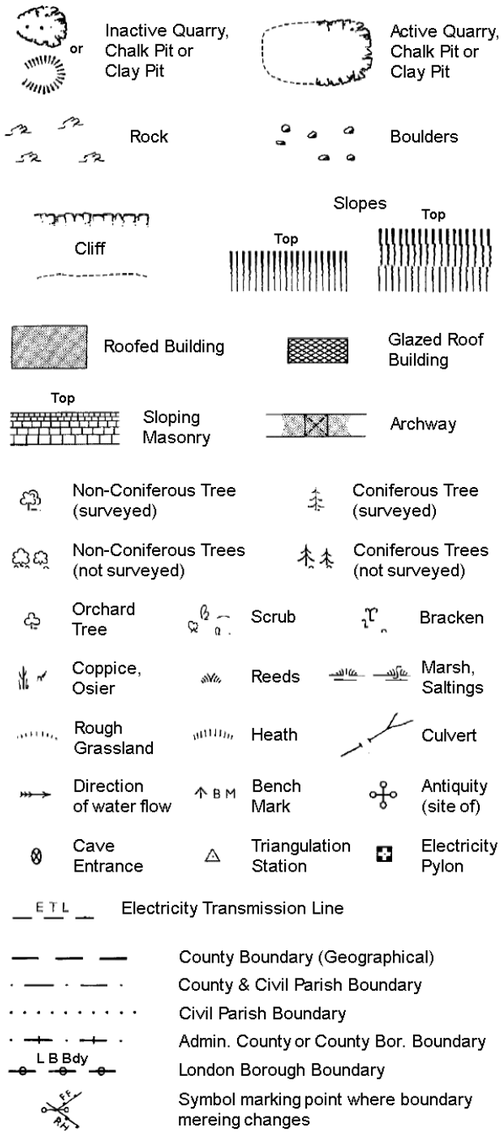
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

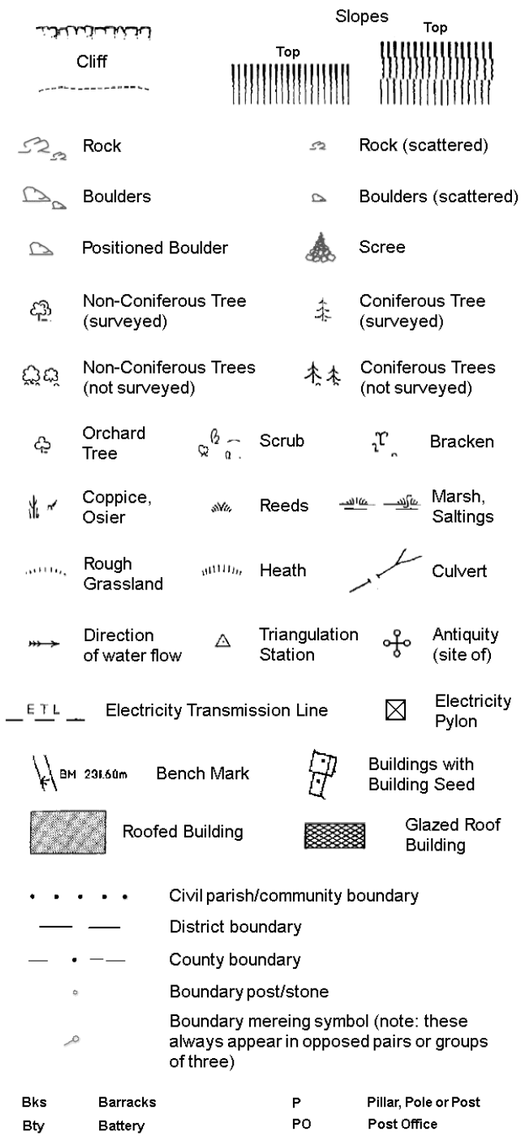
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

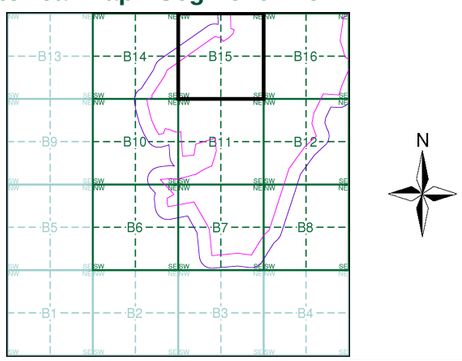
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment B15



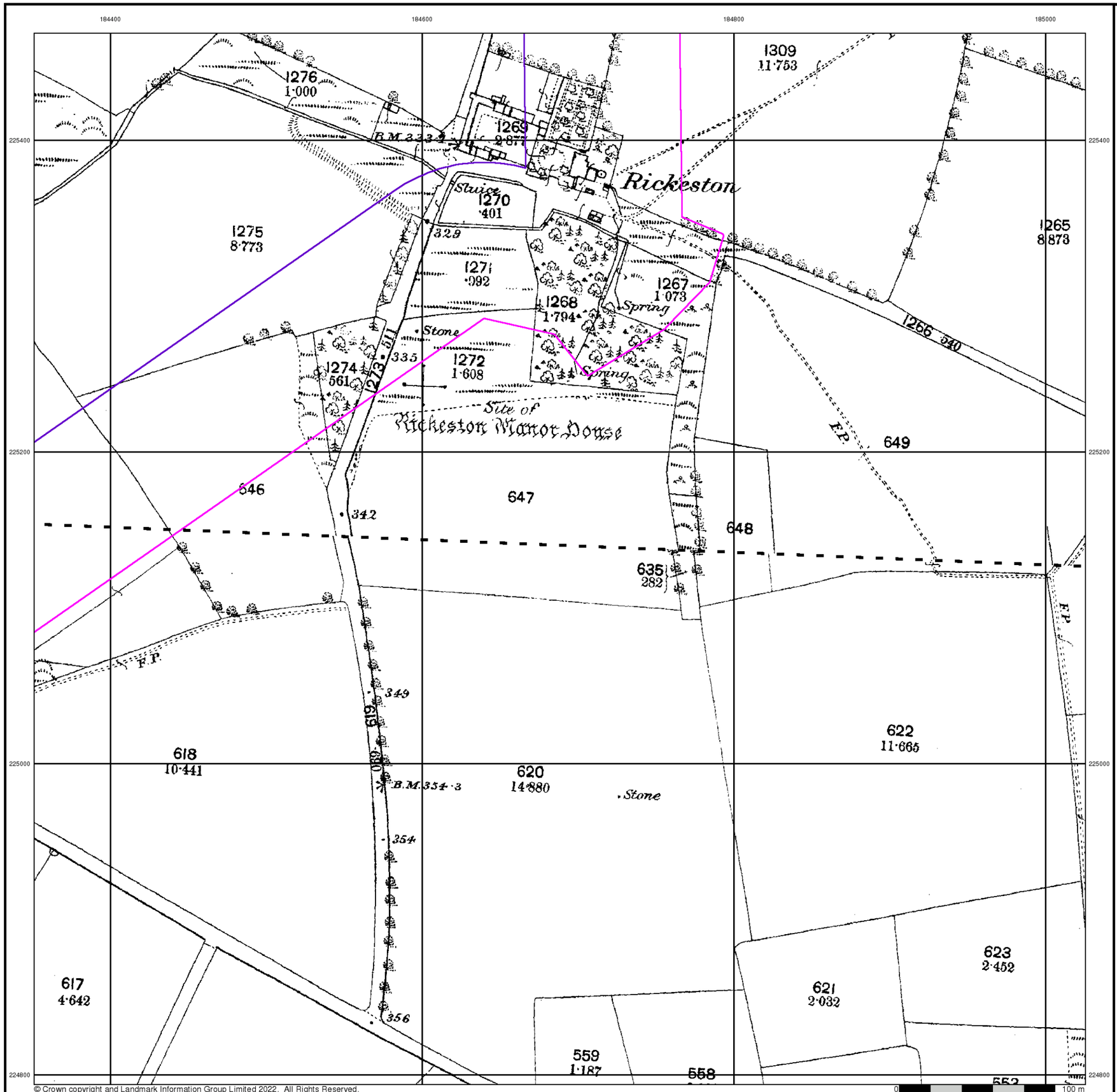
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
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Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

Landmark INFORMATION GROUP
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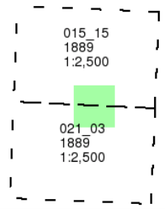
Pembrokeshire

Published 1889

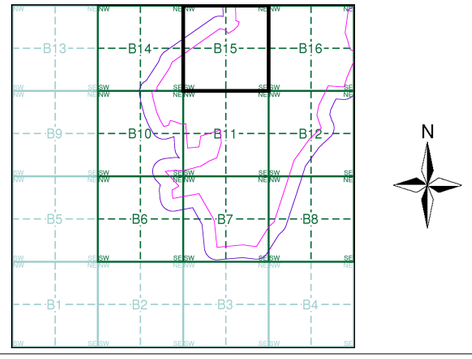
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment B15



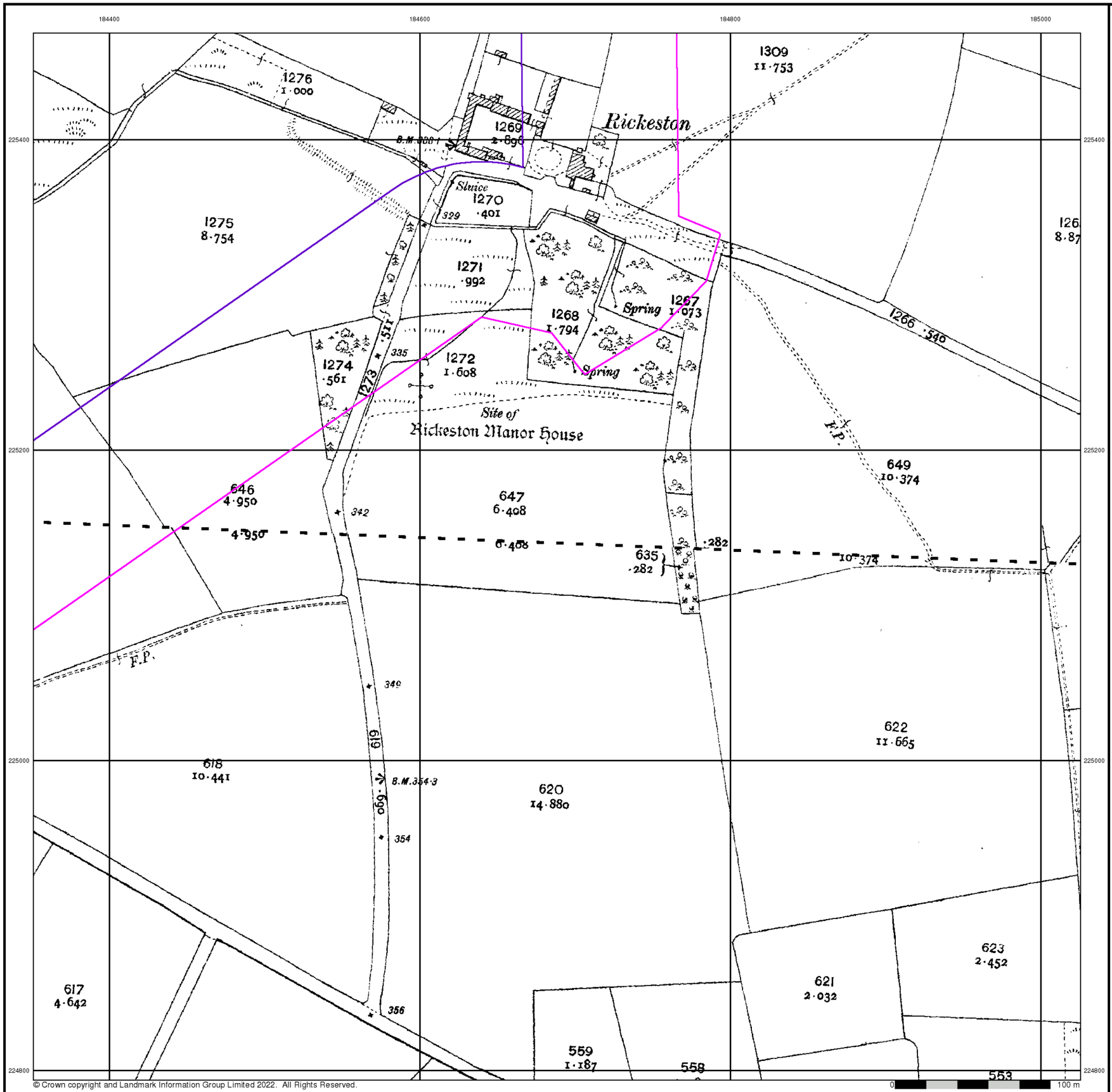
Order Details

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Customer Ref:	65208061
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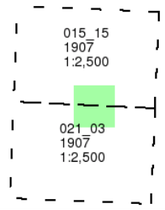
Pembrokeshire

Published 1907

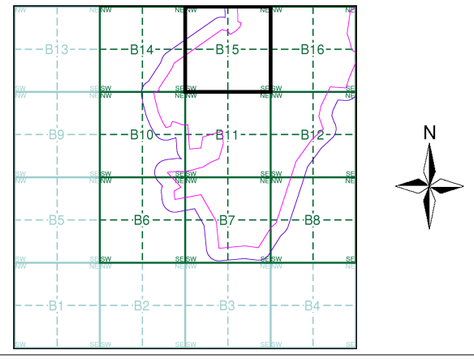
Source map scale - 1:2,500

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Historical Map - Segment B15



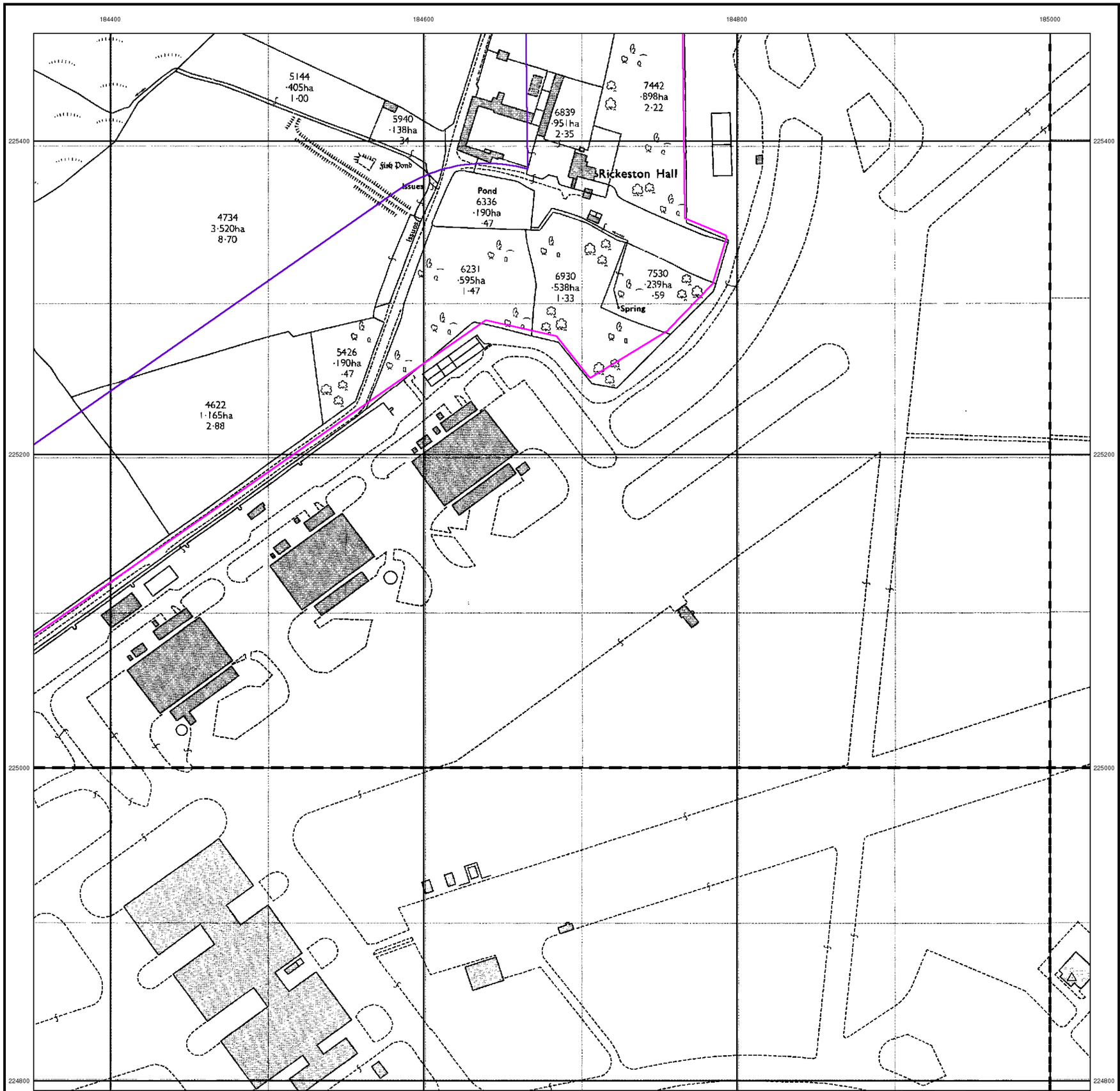
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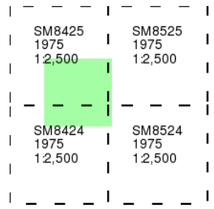
Ordnance Survey Plan

Published 1975

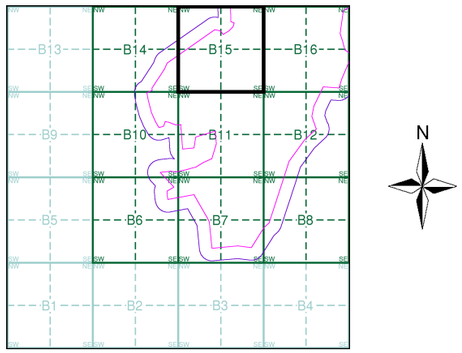
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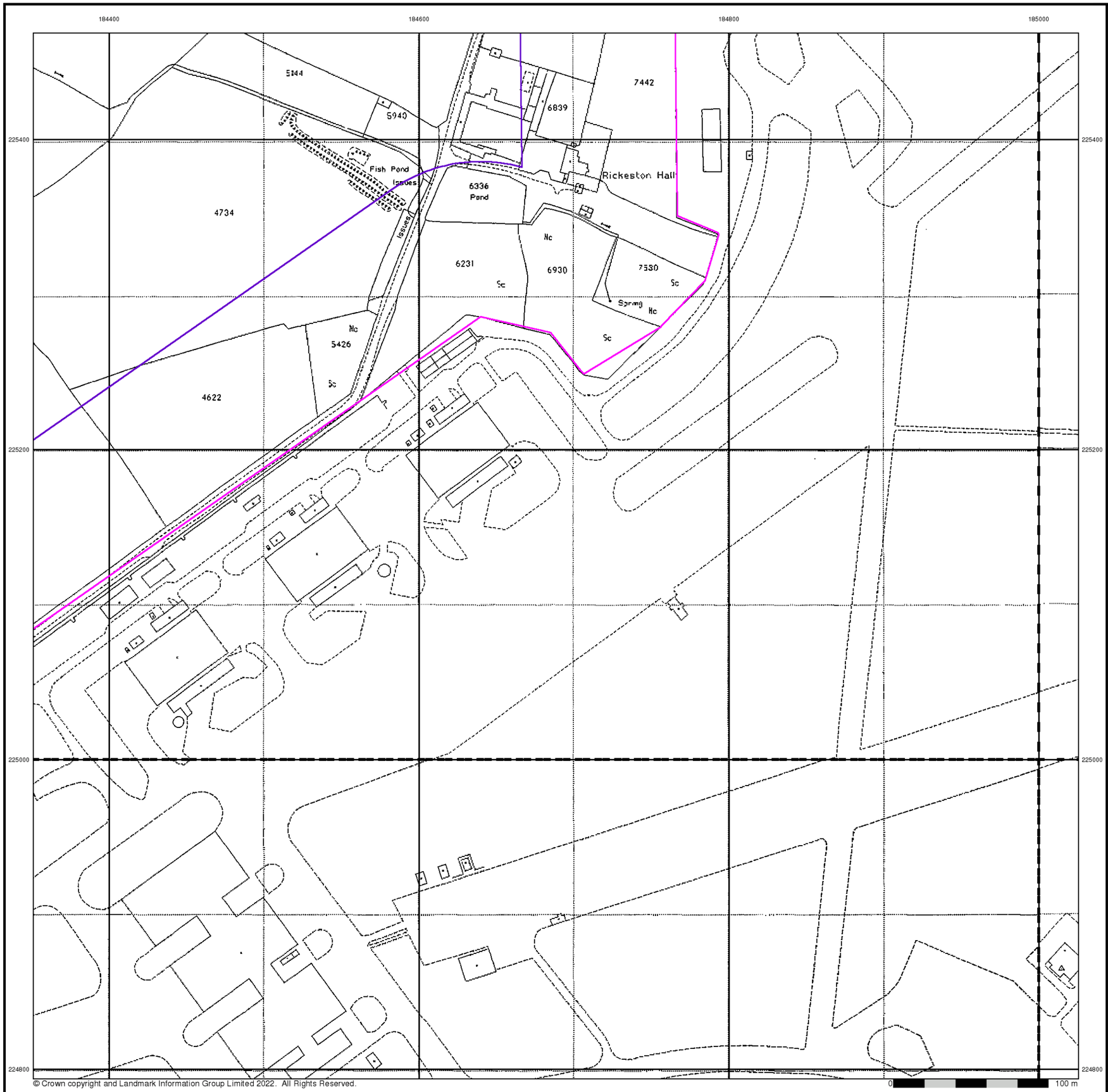
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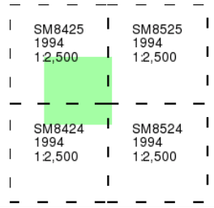
Large-Scale National Grid Data

Published 1994

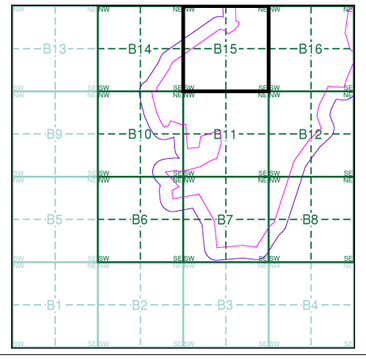
Source map scale - 1:2,500

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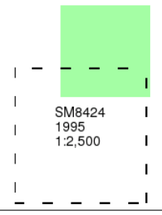
Large-Scale National Grid Data

Published 1995

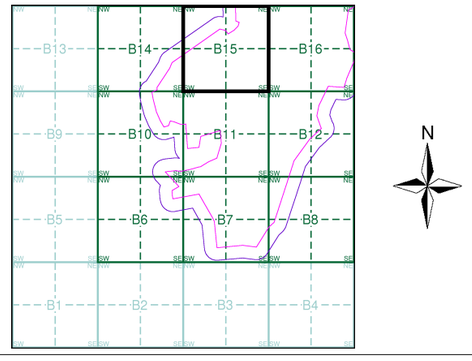
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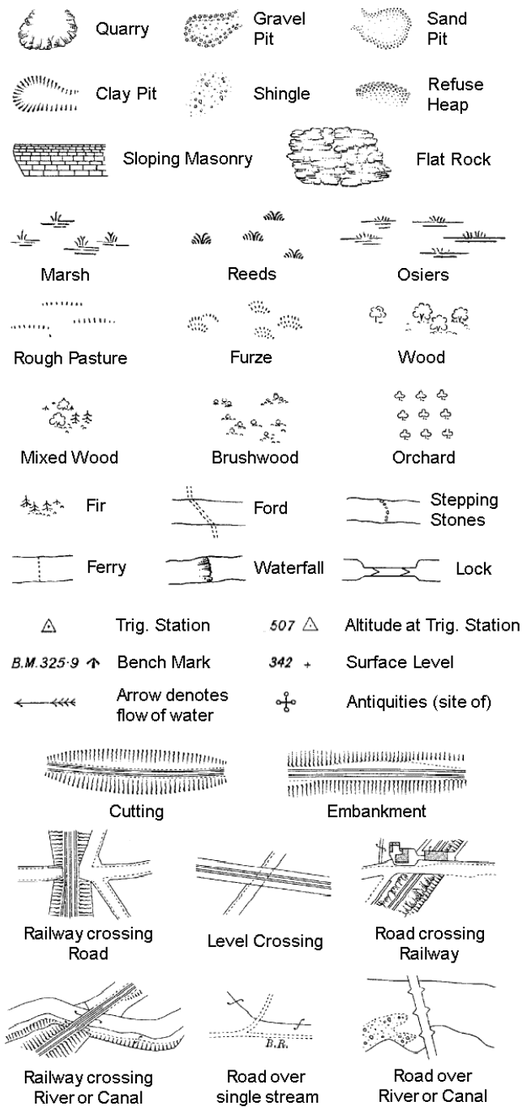
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

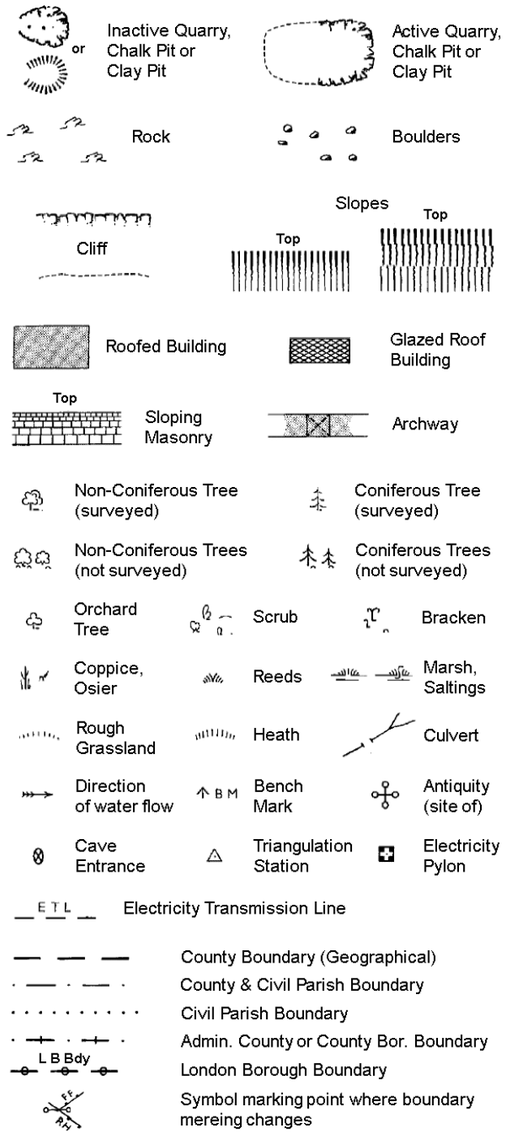
Administrative County & Civil Parish Boundary

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
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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

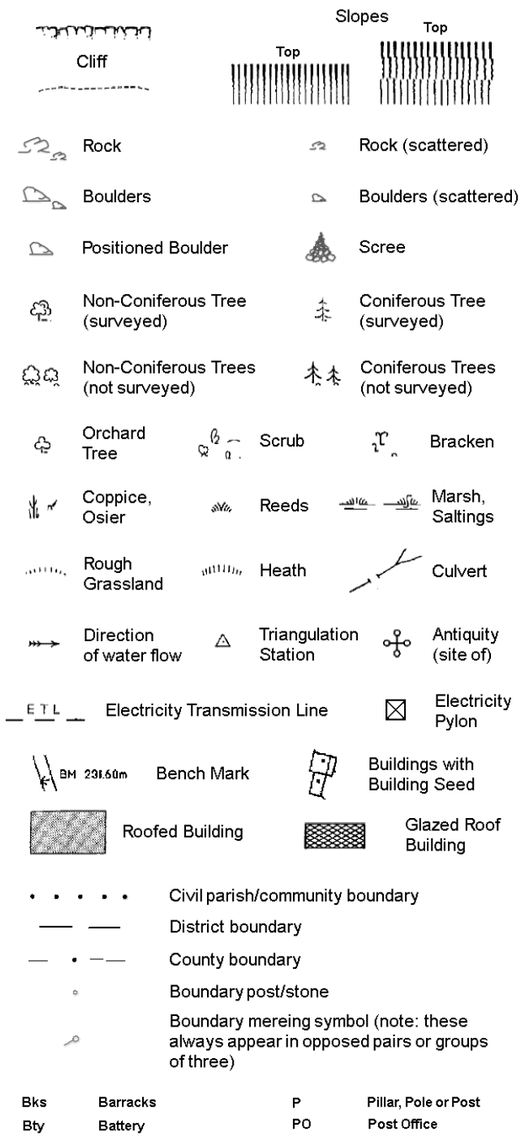
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

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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)

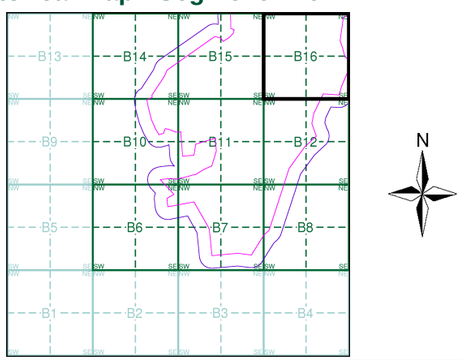
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment B16



Order Details

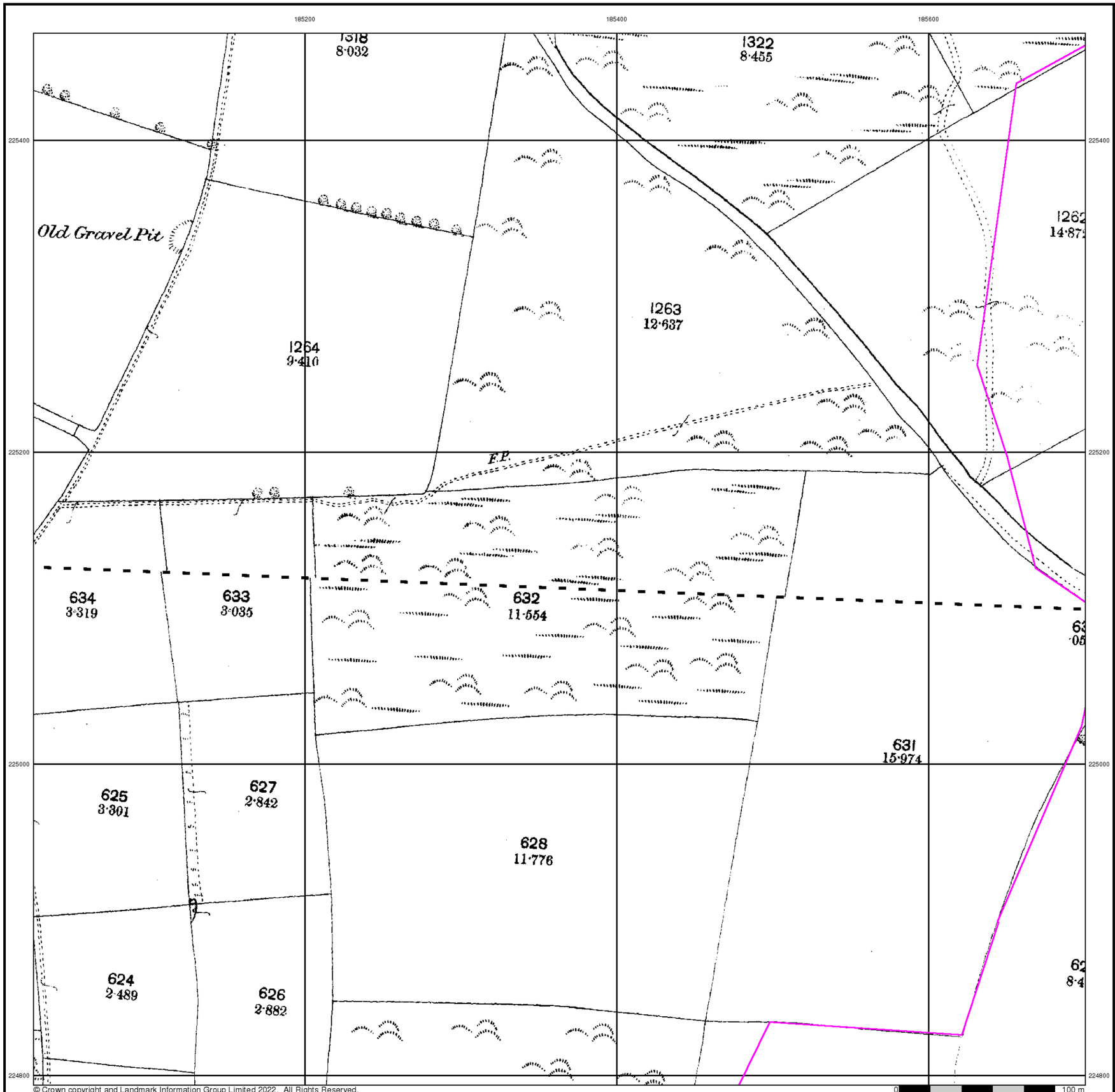
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Customer Ref: 65208061
National Grid Reference: 184500, 224180
Slice: B
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

Cawdor site

Landmark INFORMATION GROUP

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Web: www.envirocheck.co.uk



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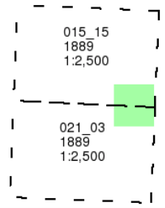
Pembrokeshire

Published 1889

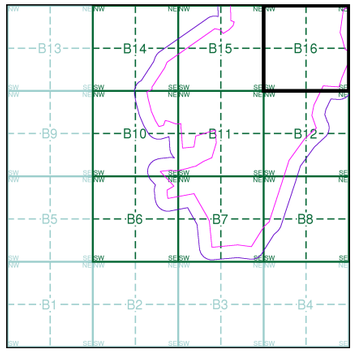
Source map scale - 1:2,500

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 B16



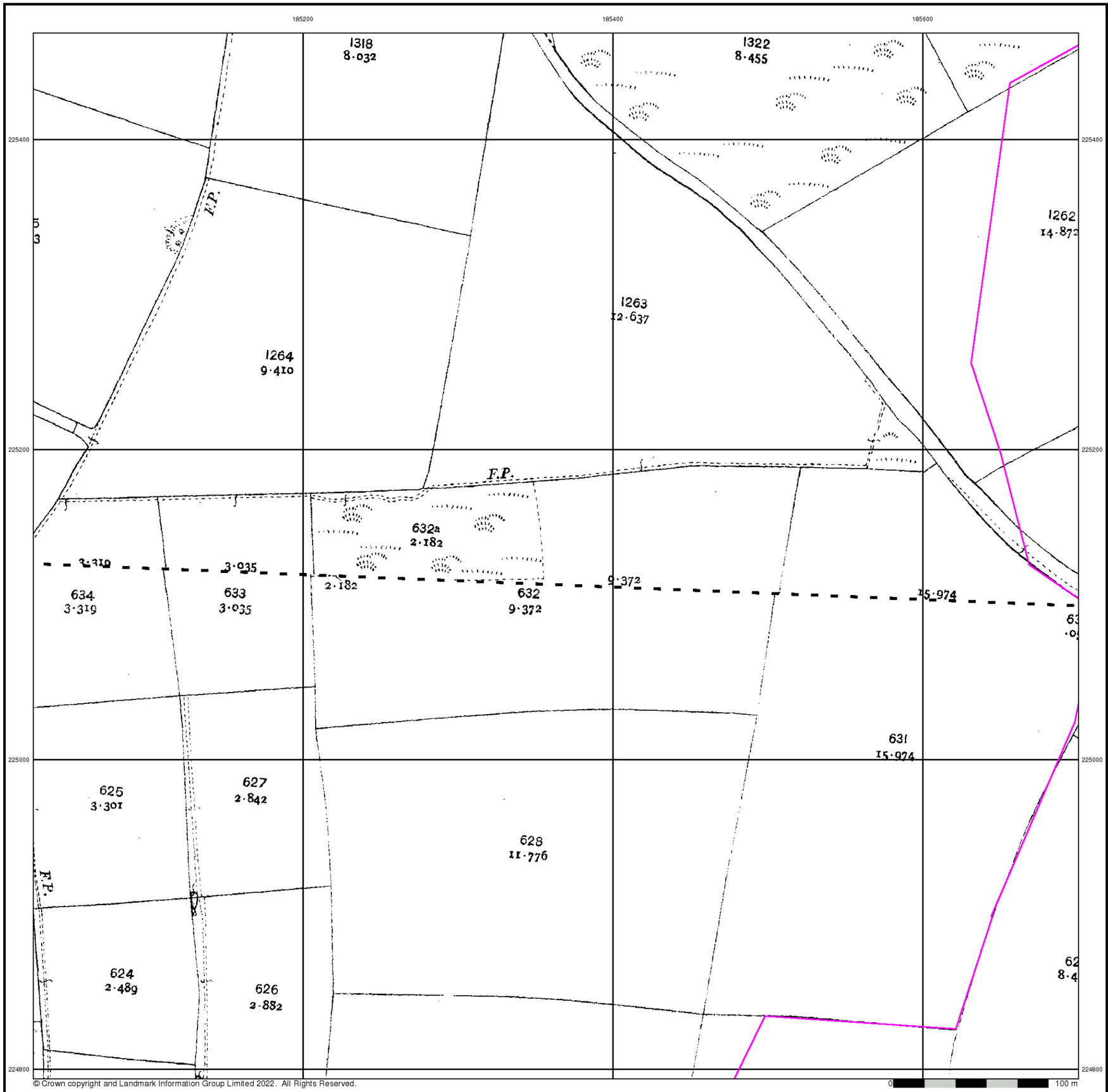
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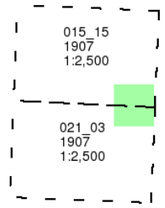
Pembrokeshire

Published 1907

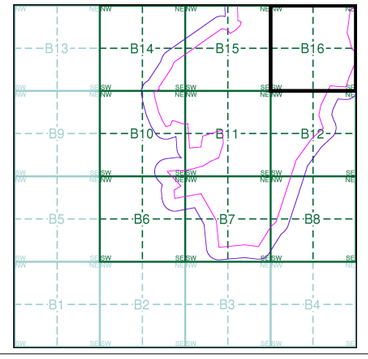
Source map scale - 1:2,500

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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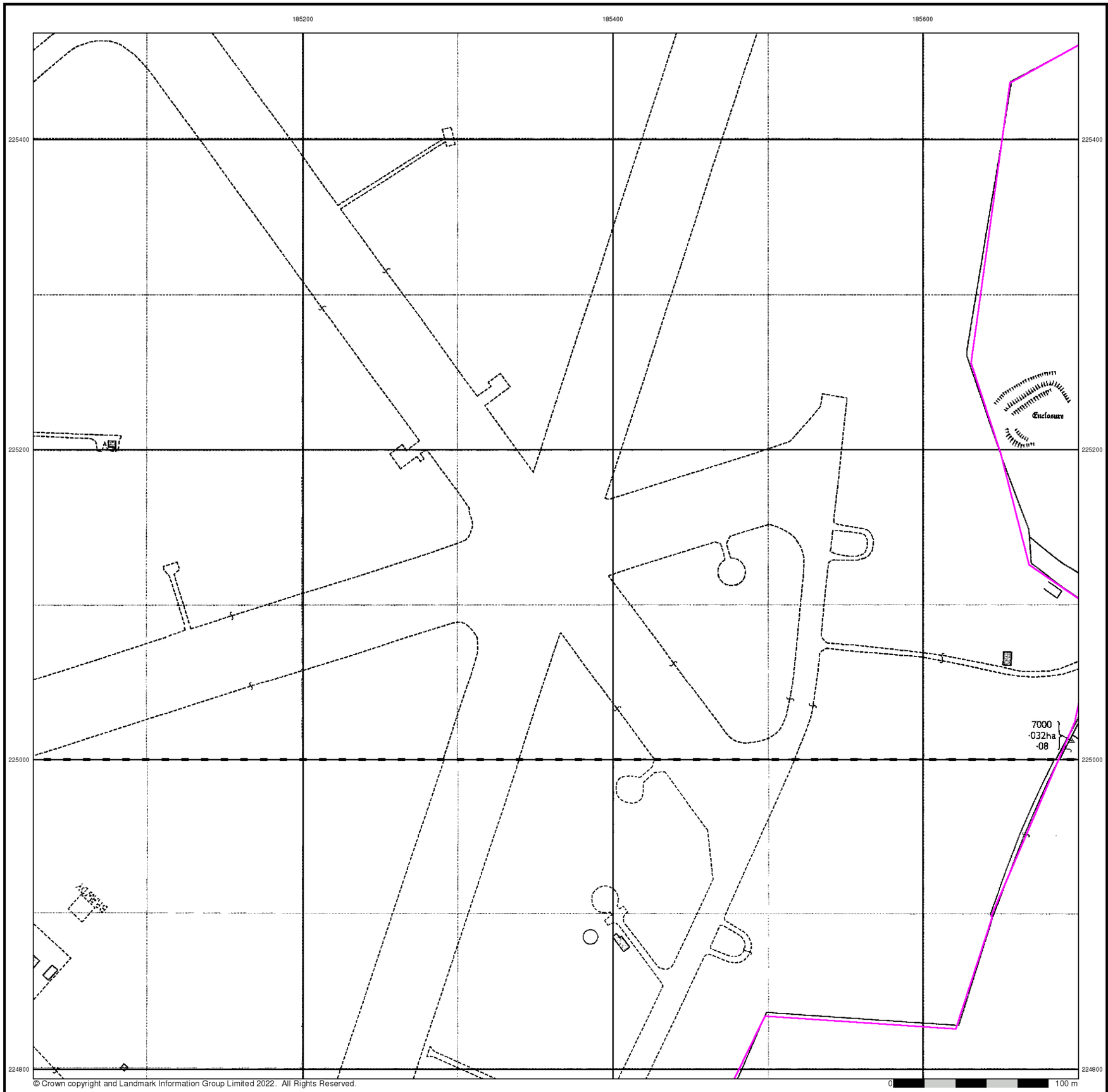
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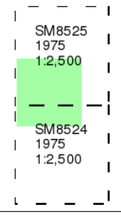
Ordnance Survey Plan

Published 1975

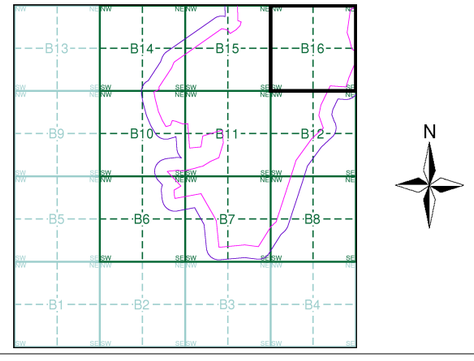
Source map scale - 1:2,500

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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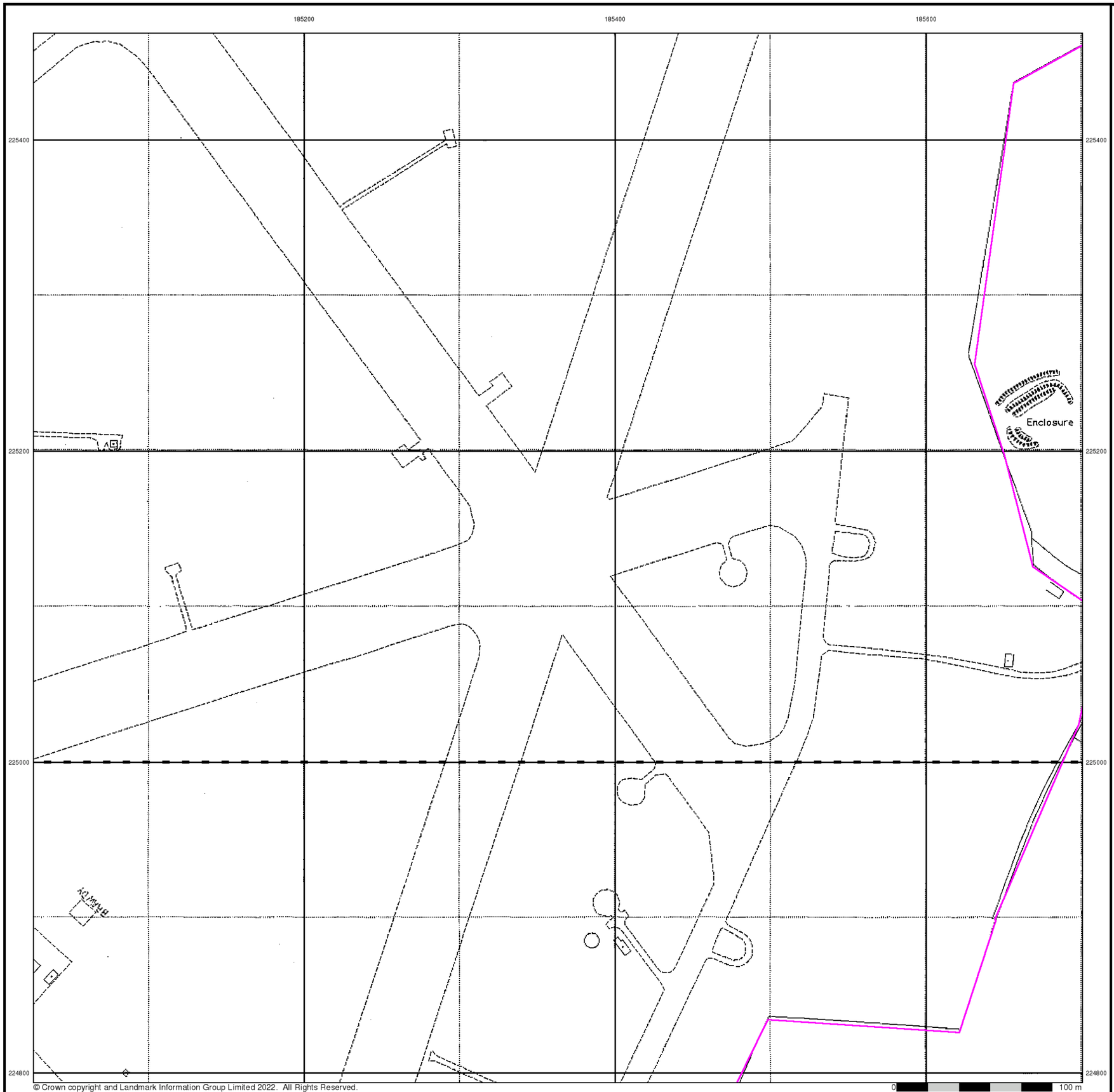
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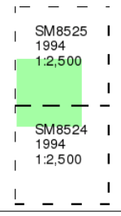
Large-Scale National Grid Data

Published 1994

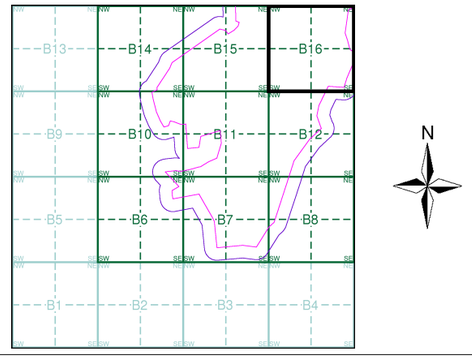
Source map scale - 1:2,500

'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 B16



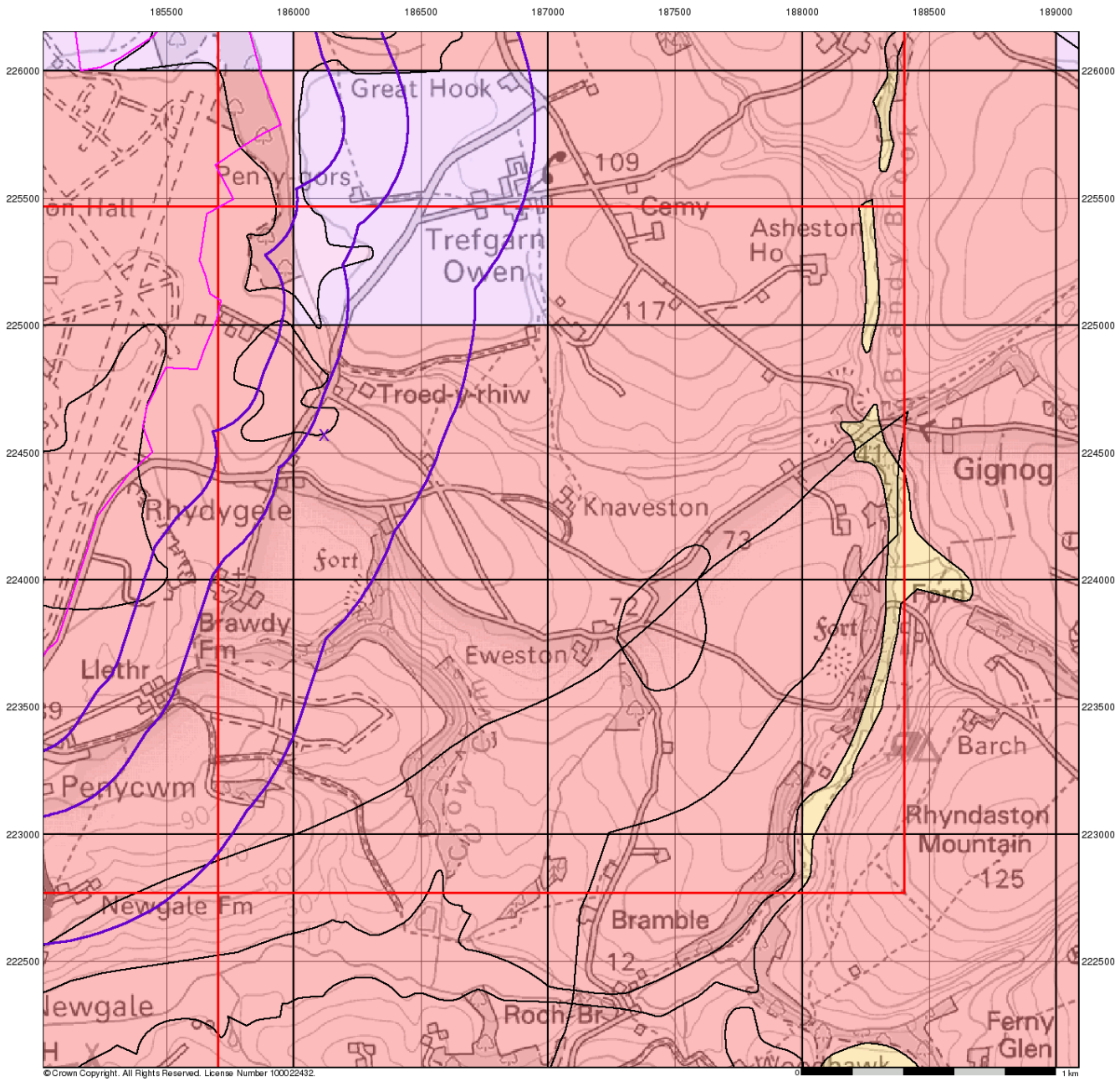
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Slice:	B
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Search Buffer (m):	100

Site Details

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Groundwater Vulnerability

General

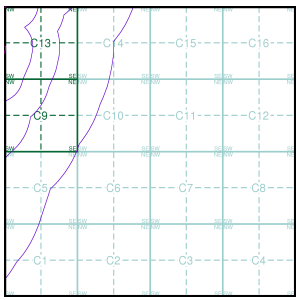
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

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



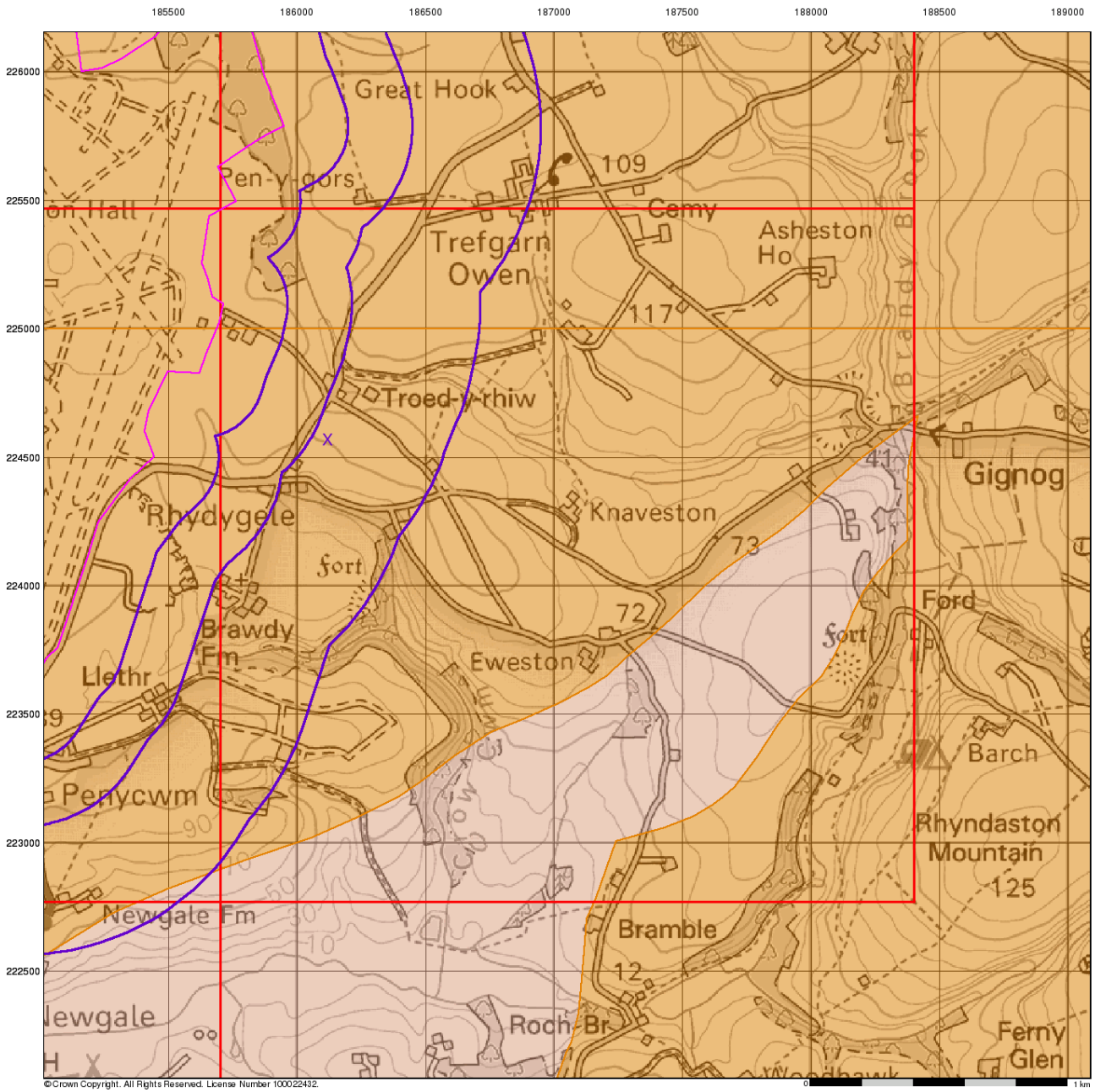
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
Search Buffer (m):	1000

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Bedrock Aquifer Designation

General

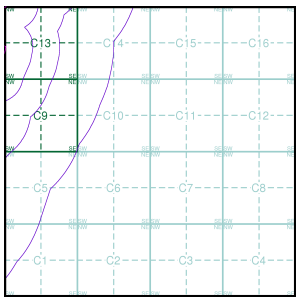
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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



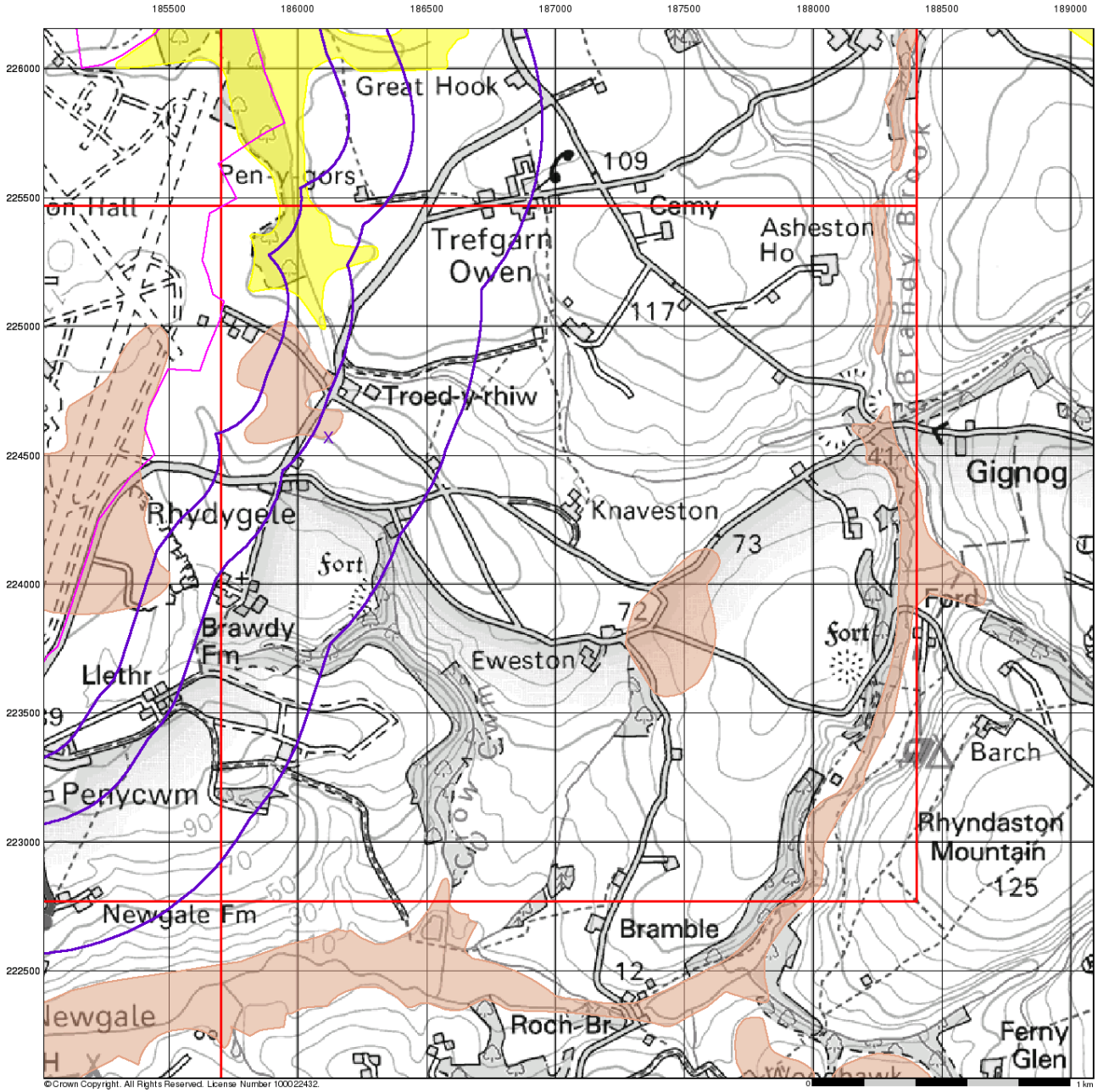
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Slice:	C
Site Area (Ha):	308.46
Search Buffer (m):	1000

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Superficial Aquifer Designation

General

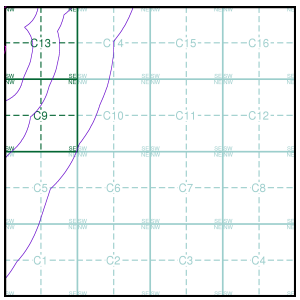
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice C



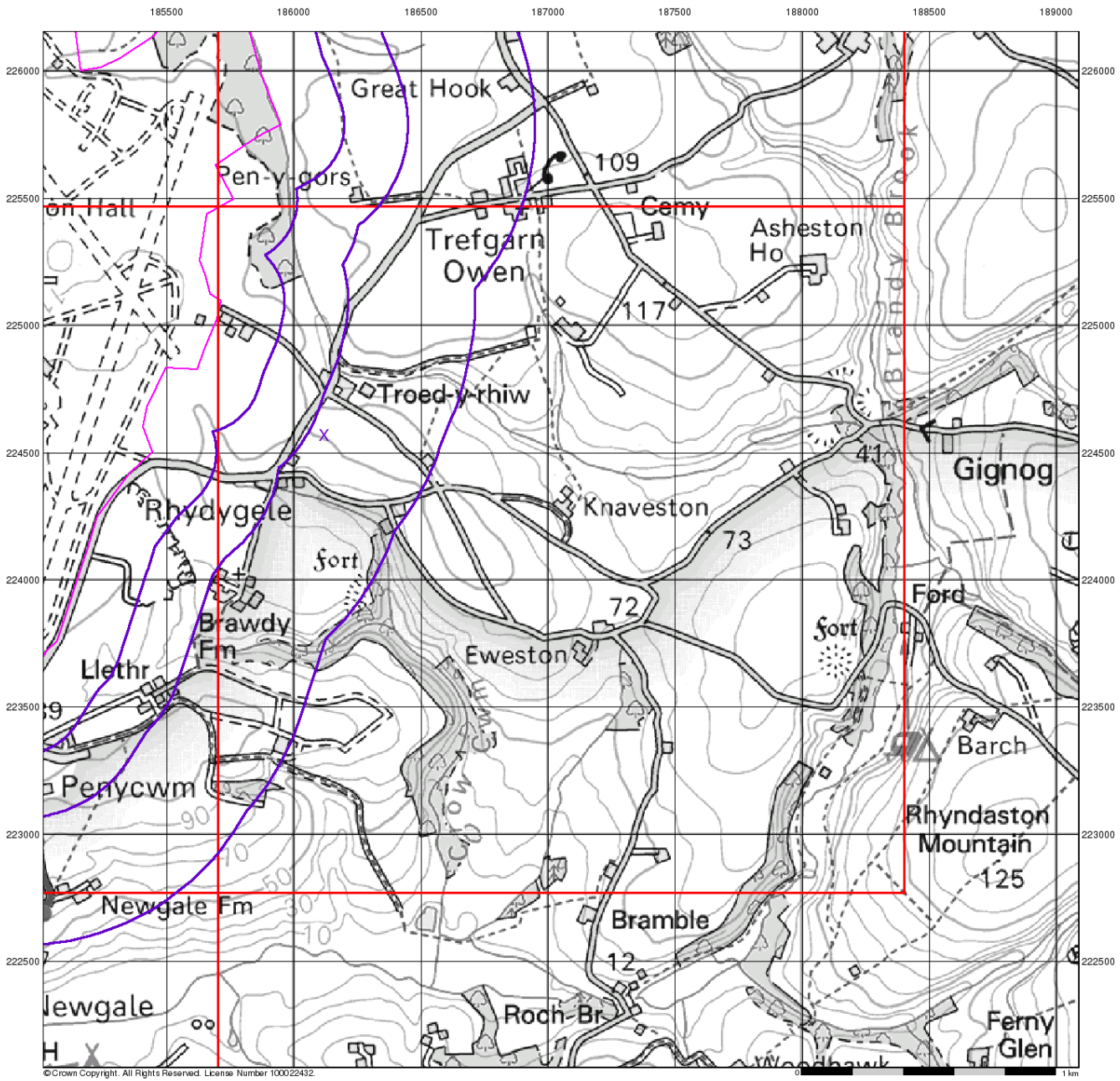
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National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
Search Buffer (m):	1000

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Source Protection Zones

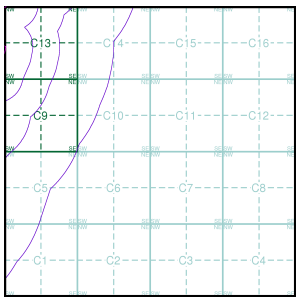
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice C



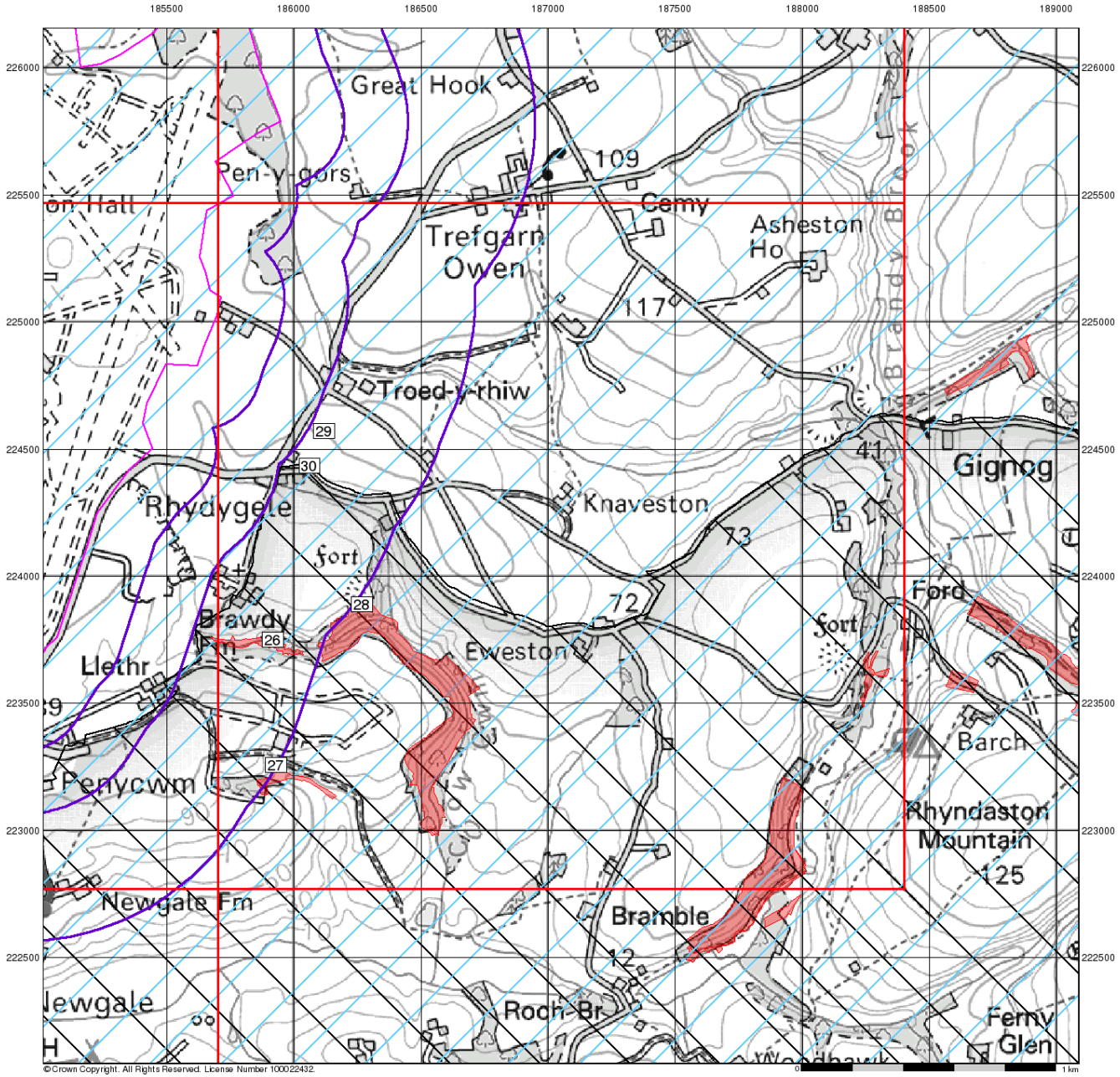
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Sensitive Land Uses

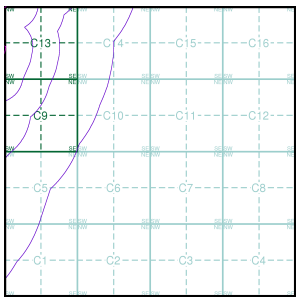
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice C



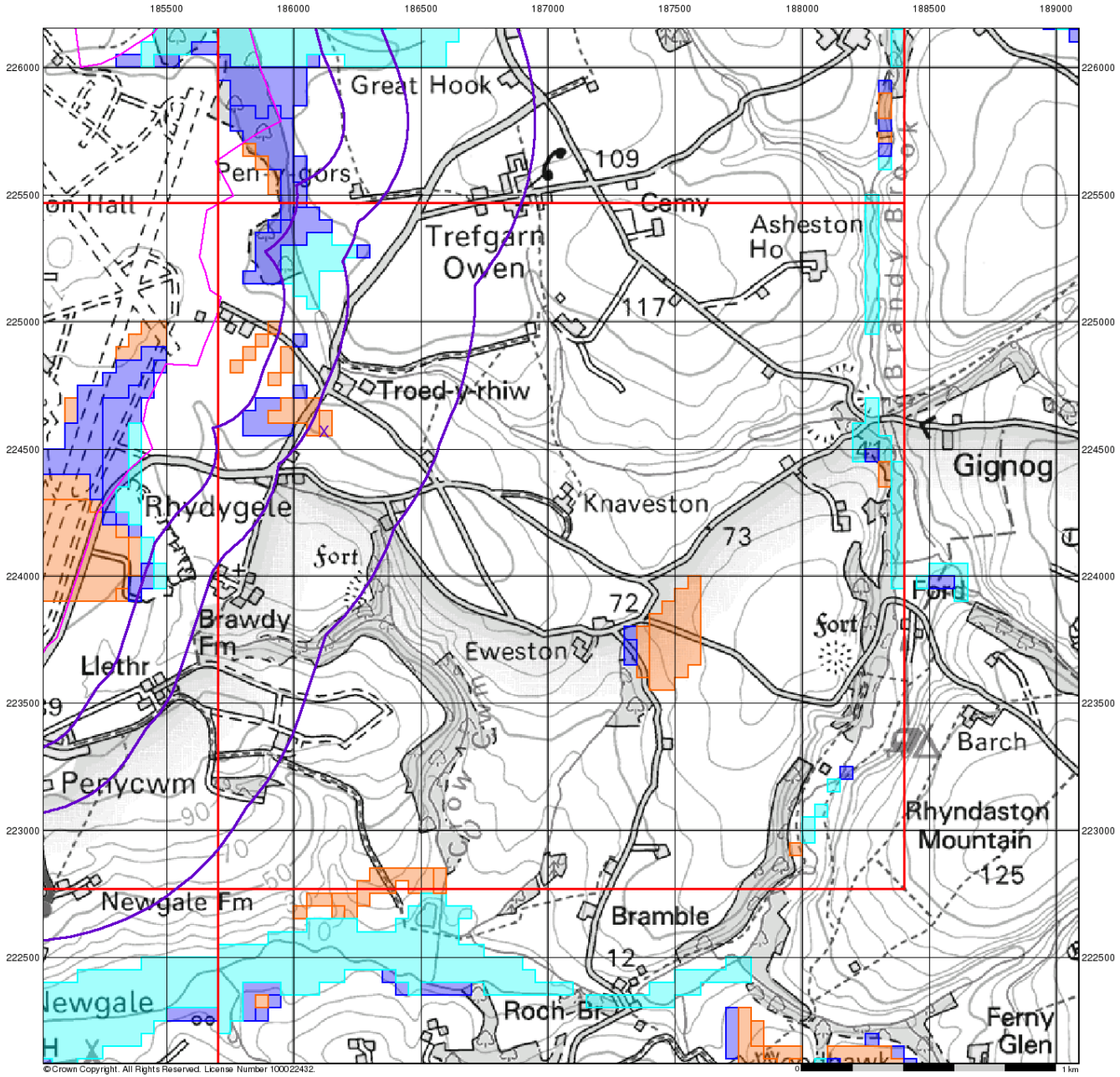
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BGS Flood GFS Data

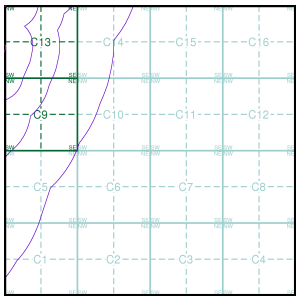
General

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



Order Details

Order Number:	305022956_1_1
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Slice:	C
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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
305022956_1_1

Customer Reference:
65208061

National Grid Reference:
186120, 224570

Slice:
C

Site Area (Ha):
308.46

Search Buffer (m):
1000

Site Details:

Cawdor site

Client Details:

Sweco Services UK Ltd
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

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Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	11
Hazardous Substances	-
Geological	12
Industrial Land Use	15
Sensitive Land Use	16
Data Currency	17
Data Suppliers	21
Useful Contacts	22

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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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3			1	1
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters	pg 3		1		
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 3				(*7)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 5	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				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 8		8	5	5

SWECO

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 11	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 12	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 12				3
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	pg 12				1
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 12	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 13	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 13	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 13	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 14	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 14	Yes	n/a	n/a	n/a

SWECO

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 15				1
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 16				3
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 16	1			
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks	pg 16		1		
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	(N)	0	1	185700 226050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	185500 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	185350 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	185250 224300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	185450 224700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	0	1	186000 225800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C13NW (N)	0	1	186000 225400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	185200 224400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	0	1	185500 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	0	1	185400 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	0	1	185550 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(N)	0	1	186050 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	185150 224600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(W)	0	1	185400 224571
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	0	1	185500 224850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(N)	3	1	185850 225650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	16	1	185300 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	57	1	185350 224250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(N)	72	1	185900 225600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	83	1	185350 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C13NW (N)	103	1	185950 225150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C13SW (NW)	115	1	185800 224800

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)	126	1	185400 224200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(N)	138	1	185950 225500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C13SW (NW)	143	1	185850 224850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	146	1	185400 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	148	1	186050 225550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	160	1	185350 223950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C13NW (N)	167	1	185950 225350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C13SW (NW)	169	1	185900 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(N)	170	1	186100 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	192	1	185400 224000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	194	1	185450 224150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C13SW (NW)	203	1	185950 224950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	224	1	185450 224050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	C13SE (N)	244	1	186100 225050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C9NW (W)	251	1	186000 224571
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	272	1	185500 224050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C9NW (NW)	274	1	185950 224750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C13SW (NW)	281	1	186000 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C13SE (N)	311	1	186050 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C9NE (W)	330	1	186100 224571
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C9NE (NW)	384	1	186050 224700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Osborne-Dowle P F W Property Type: Undefined Or Other Location: Dwelling Plot 752 Rhyd Y Gele Penyc, Penycwm H/West Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bn0097501 Permit Version: 1 Effective Date: 19th November 1973 Issued Date: 19th November 1973 Revocation Date: 7th July 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: To Land Near Crwo Cwm Brook, R **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	C9SW (SW)	468	2	185900 224400
2	**Discharge Consents** Operator: Davies Bros Property Type: Undefined Or Other Location: Troedyrhiw Penycwm Haverfordwest. Authority: Natural Resources Wales Catchment Area: Brandy Brook Reference: Bj0090101 Permit Version: 1 Effective Date: 13th August 1970 Issued Date: 13th August 1970 Revocation Date: 26th October 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Pipe Nr. Brandy Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	C13SE (N)	550	2	186200 224800
	Nearest Surface Water Feature	C13NW (NW)	106	-	185808 225142
3	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Druidstone Beach, NEWGALE Authority: Environment Agency, Welsh Region Pollutant: Sewage Fungus Note: Not Supplied Incident Date: 20th December 1994 Incident Reference: 21922 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	C13SW (NW)	204	3	185901 225001
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage 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 April Authorised End: 31 October Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1843	2	186590 222720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): 12000 Details: Crow Cwm Stream At Lower Llethr; Penycwm Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1843	3	186590 222720
	Water Abstractions Operator: Mr & Mrs P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Land At Brawdy Farm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage 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: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1843	2	186590 222720
	Water Abstractions Operator: Mr & Mrs P.T & M Gwyther Licence Number: 22/61/2/0060 Permit Version: Not Supplied Location: Land At Brawdy Farm Authority: Natural Resources Wales Abstraction: Mineral Products: General use relating to Secondary Category (High Loss) 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: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1843	2	186590 222720
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Apr to 31-Oct Authorised Start: 04 January Authorised End: 10 July Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	(S)	1845	2	186590 222715

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr & Mrs P Gwyther Licence Number: 22/61/2/0060 Permit Version: 100 Location: Crow Cwm Stream At Lower Llethr, Penycwm Authority: Natural Resources Wales Abstraction: Mineral Products: General Use(High Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Apr to 31-Oct Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	(S)	1850	2	186595 222715
	Water Abstractions Operator: Mr G D Lovegrove Licence Number: 22/61/2/0036 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 100 Yearly Rate (m3): 7201 Details: Brandy Brook Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1869	3	186400 222410
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(N)	0	2	185705 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NW)	0	2	185309 226000

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: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	C13SW (N)	0	2	186000 225000
	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: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	C5NW (S)	0	2	186000 224000
	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: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NW)	0	2	185421 225000
	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: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	C9NW (W)	0	2	186000 224571

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, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(W)	0	2	185469 224802
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SW)	0	2	185499 224000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(N)	0	2	186000 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	C13SW (N)	0	2	186000 225118

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, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(NW)	0	2	185458 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	C13SE (N)	0	2	186119 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	C9NE (S)	0	2	186119 224571
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	C13SE (N)	0	2	186107 225000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(NW)	0	2	185458 225000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(W)	0	2	185469 224802
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
4	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (NW)	106	4	185808 225142
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	C13NW (NW)	170	4	185853 225192
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (NW)	170	4	185853 225192

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	192	4	185873 225216
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	202	4	185873 225216
9	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 242.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	239	4	186032 225274
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	247	4	185945 225245
11	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	249	4	185922 225228
12	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 92.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13NW (N)	277	4	185945 225245
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 175.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C9SW (SW)	293	4	185885 224387
14	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 626.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13SE (NE)	349	4	186236 224816
15	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C9SW (SW)	456	4	185902 224384

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 853.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C9SE (S)	474	4	186060 224344
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 950.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	C5NE (S)	503	4	186281 223823
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 857.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C5NE (S)	503	4	186264 223824
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13SE (NE)	680	4	186338 224795
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 912.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C13SE (NE)	683	4	186341 224795
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 517.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	C9SE (S)	809	4	186227 224291

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Pembrokeshire County Council - Has supplied landfill data		0	5	186119 224571

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Cambrian Rocks (Undifferentiated)	C9SE (S)	0	1	186175 224155
	BGS 1:625,000 Solid Geology Description: Upper Cambrian, Including Tremadoc	C13SW (NW)	0	1	185892 224855
22	**BGS Recorded Mineral Sites** Site Name: Troed-Y-Rhiw Location: Hayscastle, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89859 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Caerbwdy Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	C13SE (N)	510	1	186199 224930
23	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Gors Location: Llandeloy, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89682 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	C13NE (N)	527	1	186294 225393
24	**BGS Recorded Mineral Sites** Site Name: Brawdy Location: Penycwm, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89866 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: St Non'S Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	C5NW (SW)	680	1	185794 223789
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Man-Made Mining Cavities Easting: 186400 Northing: 224300 Distance: 940 Quadrant Reference: C10 Quadrant Reference: SW Bearing Ref: SE Cavity Type: Not supplied Commodity: Lead Solid Geology Detail: No Details Superficial Geology Detail: No Details	C10SW (SE)	940	7	186400 224300
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186119 225000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186119 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186119 225000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186119 225000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186119 225000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C9NE (N)	0	1	186119 224572
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	79	1	186119 224571
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186107 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186084 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	49	1	186119 225000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C9NE (N)	139	1	186119 224572
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C13SW (N)	209	1	185991 225000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NE (S)	0	1	186119 224571
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186084 225000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	0	1	186107 225000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C13SE (N)	49	1	186119 225000
	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	C9NW (NW)	0	1	186025 224750
	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	C13SW (NW)	0	1	185825 224800
	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	C13SE (N)	0	1	186050 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	C9NW (NW)	0	1	186025 224750
	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	C13SW (NW)	0	1	185825 224800
	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	C13SE (N)	0	1	186050 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	**Contemporary Trade Directory Entries** Name: Techtronics Location: Silver Hill, Pen y Cwm, Haverfordwest, Dyfed, SA62 6JZ Classification: Radio Communication Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C10SW (SE)	988	-	186407 224228

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Ancient Woodland** Name: Not Supplied Reference: 4712 Area(m²): 8596.98 Type: Ancient and Semi-Natural Woodland	C5SW (S)	570	2	185919 223748
27	**Ancient Woodland** Name: Not Supplied Reference: 4710 Area(m²): 8906.03 Type: Ancient and Semi-Natural Woodland	C1NW (S)	967	2	185930 223257
28	**Ancient Woodland** Name: Not Supplied Reference: 4713 Area(m²): 119967.99 Type: Ancient and Semi-Natural Woodland	C5NE (S)	979	2	186270 223887
29	**Environmentally Sensitive Areas** Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 1187932672 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	C9NE (S)	0	8	186119 224571
30	**National Parks** Name: Pembrokeshire Coast Multiple Area: Y Area (m2): 187013417.05 Source: Natural Resources Wales **Status: Fully Designated - designated as a National Park** Designation Date: 31st December 1951	C9SE (SW)	140	2	186060 224434

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	June 2020	Annually
Pembrokeshire County Council - Public Protection Division	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	October 2022	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	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Local Authority Pollution Prevention and Controls		
Pembrokeshire County Council - Environmental Health Department	November 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Nearest Surface Water Feature		
Ordnance Survey	October 2022	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
Substantiated Pollution Incident Register		
Environment Agency Wales - South West Area	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Abstractions		
Environment Agency - Welsh Region	October 2022	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	Quarterly
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences		
Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas		
Natural Resources Wales	August 2019	Quarterly
Flood Defences		
Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines		
Ordnance Survey	October 2022	Quarterly
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	As notified
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	July 2019	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Natural Resources Wales	October 2021	Quarterly
Environment Agency Wales - South West Area	October 2022	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency Wales - South West Area	July 2021	Quarterly
Natural Resources Wales	July 2022	Quarterly
Local Authority Landfill Coverage		
Pembrokeshire County Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Pembrokeshire County Council - Environmental Health Department	October 2018	
Registered Landfill Sites		
Environment Agency Wales - South West Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - South West Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - South West Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Variable
Pembrokeshire County Council - Planning Department	October 2015	Variable
Planning Hazardous Substance Consents		
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Variable
Pembrokeshire County Council - Planning Department	October 2015	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	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	March 2014	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	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt		
Pembrokeshire Coast National Park Authority - Development Control	July 2022	Quarterly
Pembrokeshire County Council	July 2022	Quarterly
Areas of Unadopted Green Belt		
Pembrokeshire Coast National Park Authority - Development Control	July 2022	Quarterly
Pembrokeshire County Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Pembrokeshire County Council	August 2018	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves		
Natural Resources Wales	February 2022	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	July 2019	Bi-Annually
Ramsar Sites		
Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2018	Bi-Annually

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	

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**Pembrokeshire County Council - Environmental Health Department** Public Protection Division, Pembrokeshire County Council, County Hall, Haverfordwest, Pembrokeshire, SA61 1TP	Telephone: 01437 764551 Fax: 01437 775838 Website: www.pembrokeshire.gov.uk
6	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
7	**Stantec UK Ltd** Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
8	**The National Assembly for Wales - GI Services (Department of Planning & Countryside)** Yr Hen Ysgol Gymraeg, Alexandria Road, Aberystwyth, Ceredigion, SY23 1LD	Telephone: 02920 825111 Website: www.wales.gov.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

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
Standard Gauge Single Track
Road Under
Road Over
Level Crossing
Foot Bridge
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

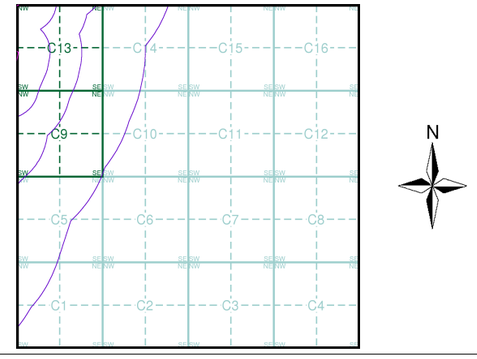
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1888	2
Pembrokeshire	1:10,560	1908	3
Pembrokeshire	1:10,560	1953	4
Ordnance Survey Plan	1:10,000	1964	5
Ordnance Survey Plan	1:10,000	1980	6
10K Raster Mapping	1:10,000	2000	7
Street View	Variable		8

Historical Map - Slice C



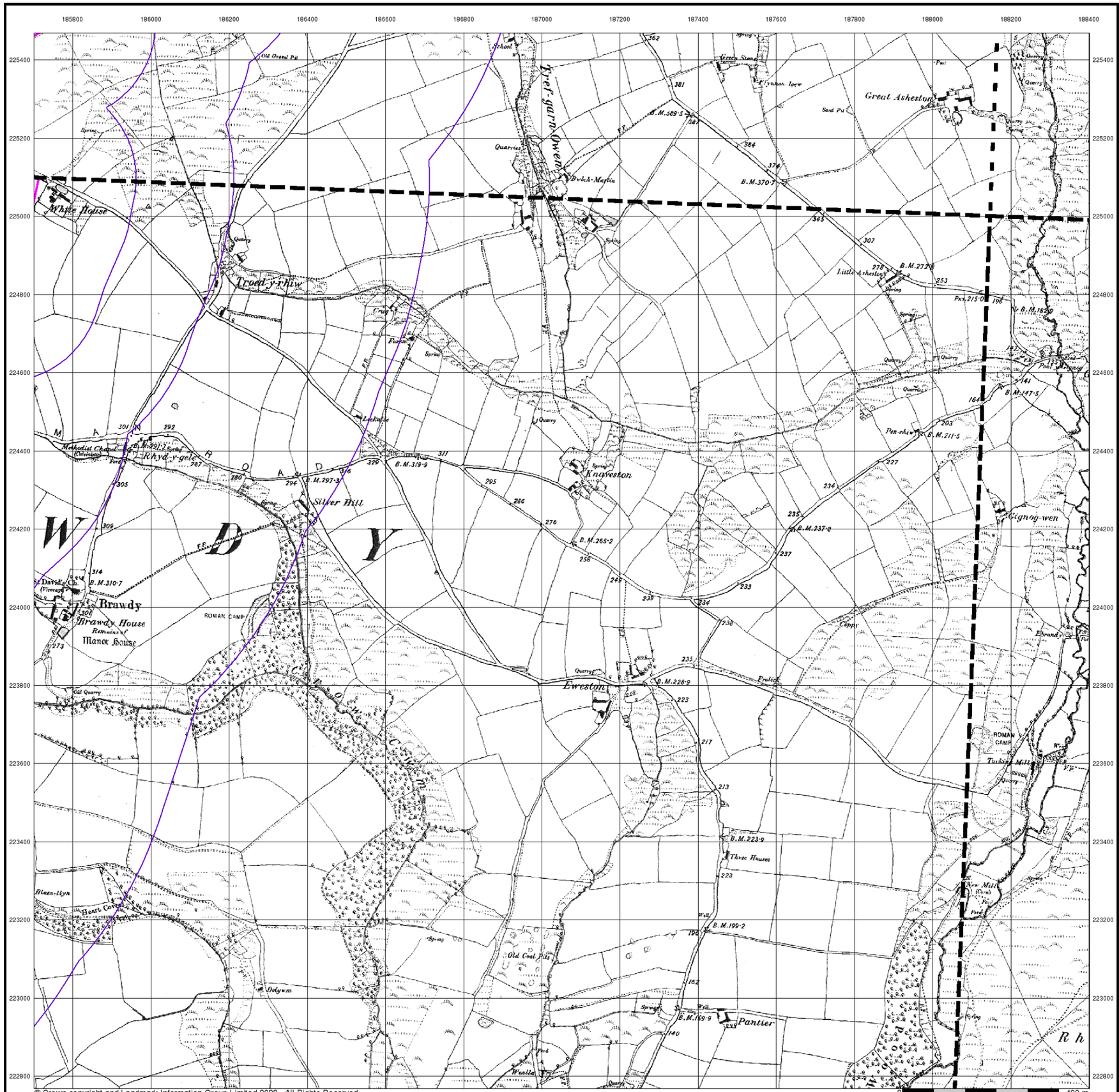
Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 186120, 224570
Slice: C
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site

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



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SWECO

Pembrokeshire

Published 1888

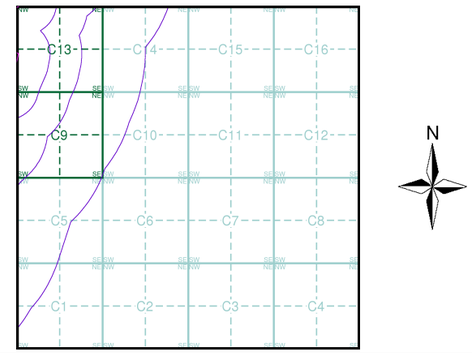
Source map scale - 1:10,560

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)

015SE 1888 1:10,560	016SW 1888 1:10,560
021NE 1888 1:10,560	022NW 1888 1:10,560

Historical Map - Slice C



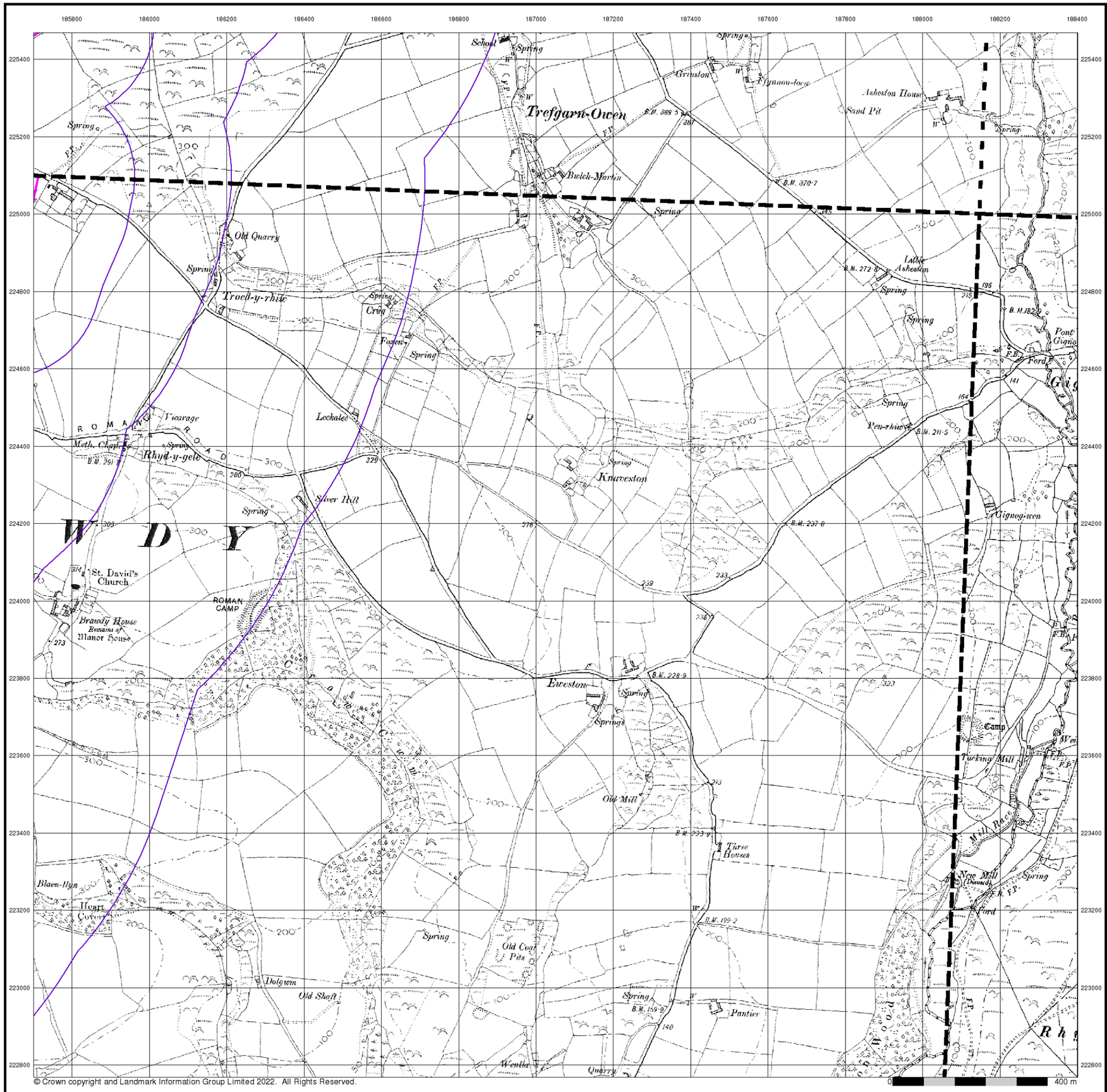
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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Web: www.envirocheck.co.uk



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SWECO

Pembrokeshire

Published 1908

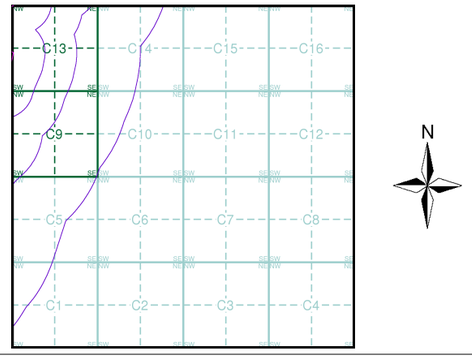
Source map scale - 1:10,560

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)

015SE 1908 1:10,560	016SW 1908 1:10,560
021NE 1908 1:10,560	022NW 1908 1:10,560

Historical Map - Slice C



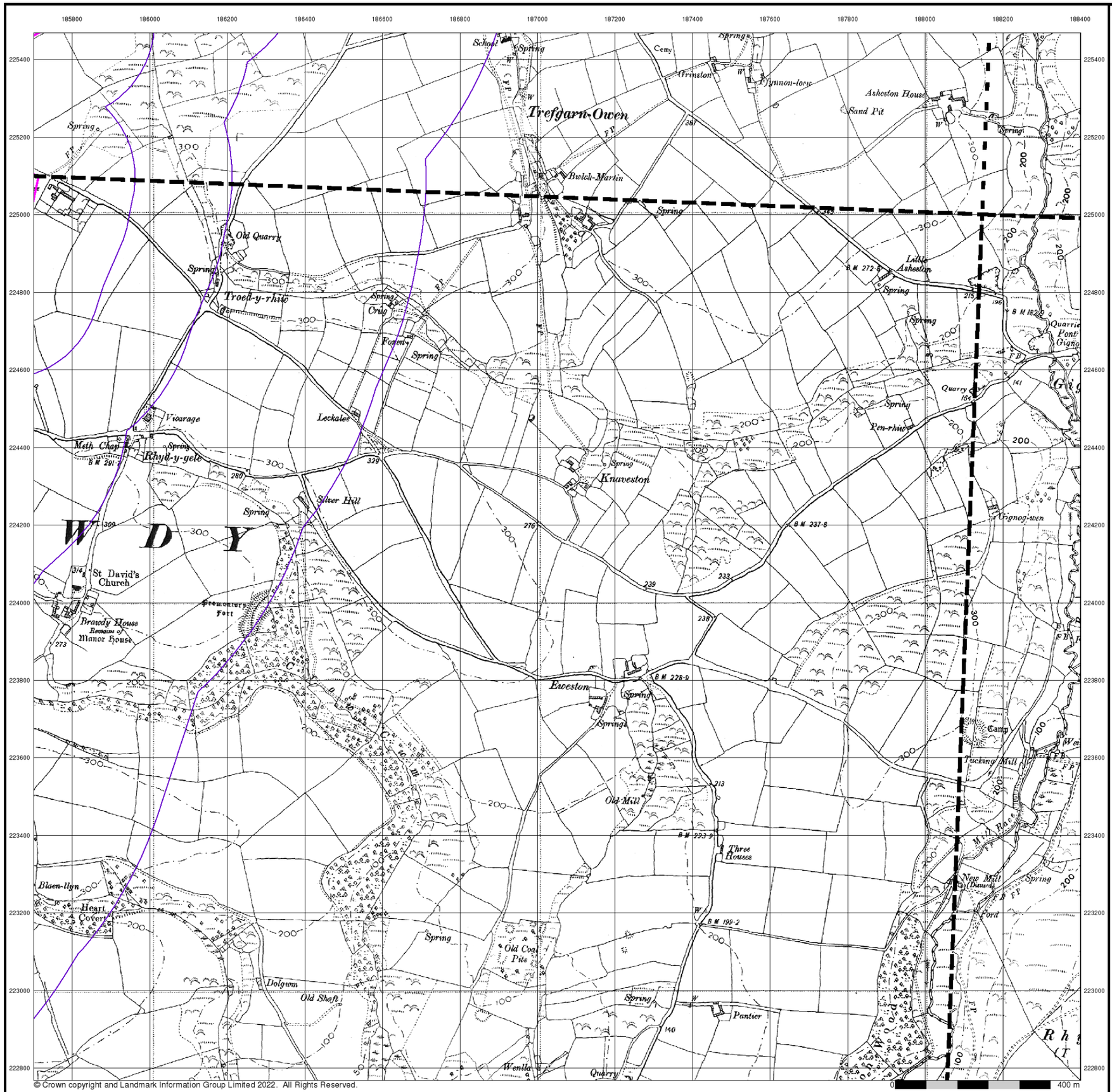
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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SWECO

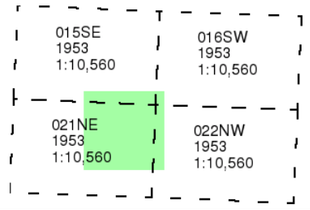
Pembrokeshire

Published 1953

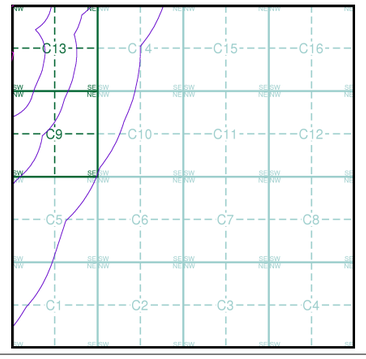
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice C



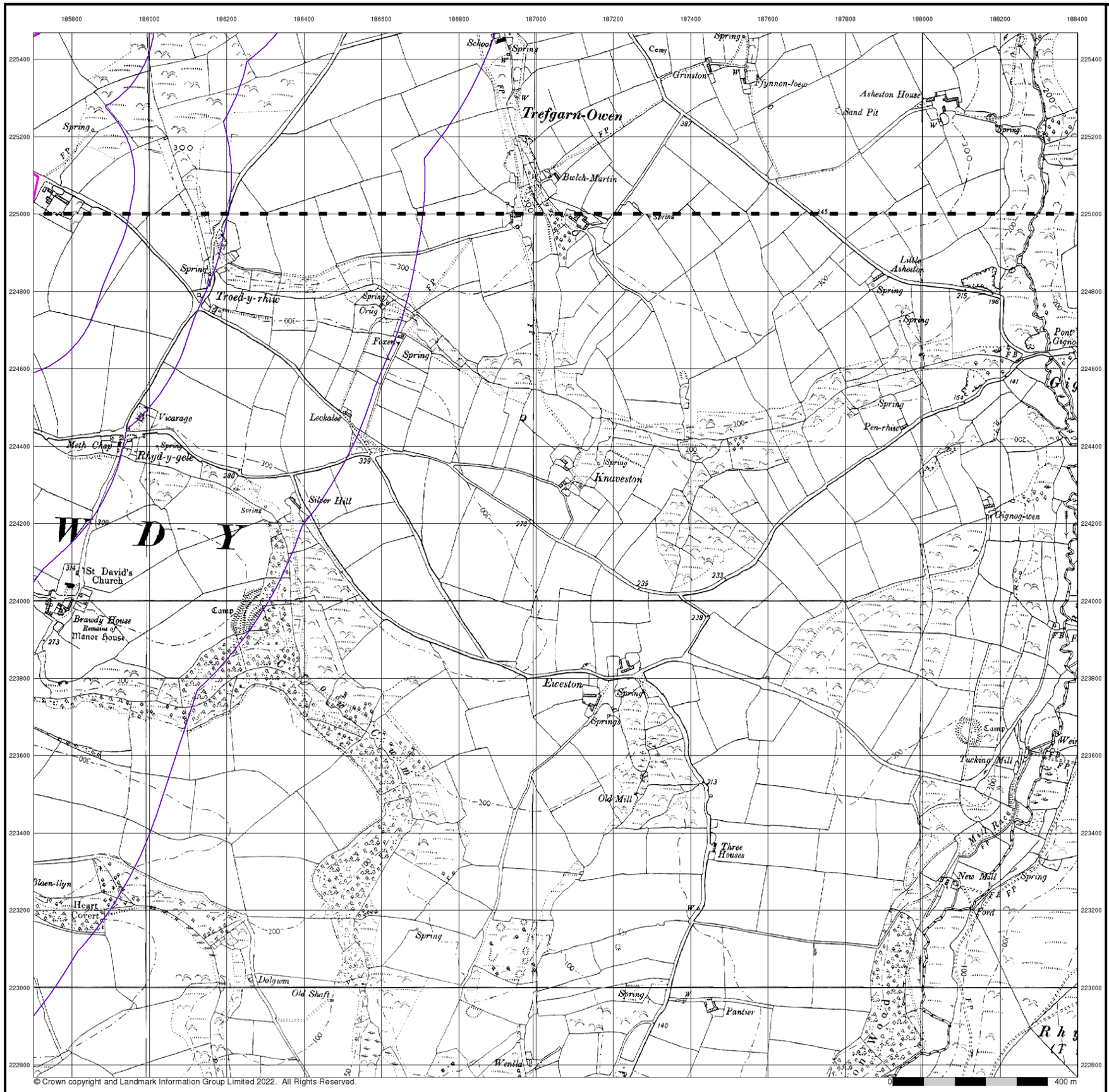
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
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SWECO

Ordnance Survey Plan

Published 1964

Source map scale - 1:10,000

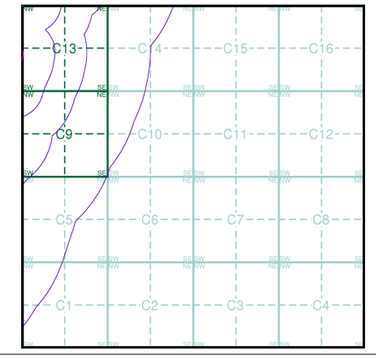
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SM82NE
1964
1:10,560

SM82SE
1964
1:10,560

Historical Map - Slice C



Order Details

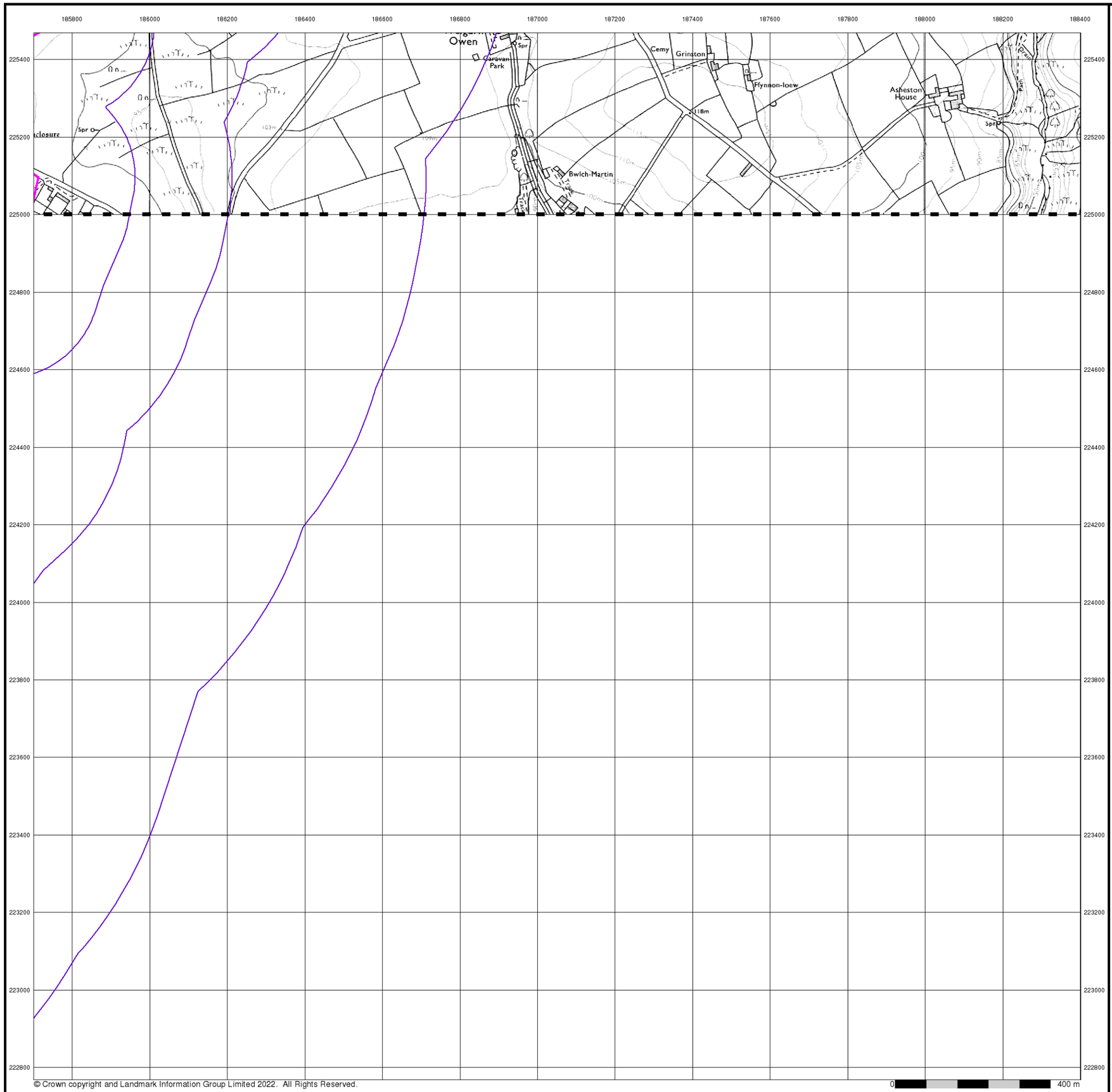
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
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SWECO

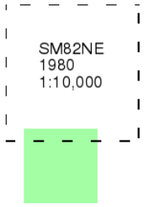
Ordnance Survey Plan

Published 1980

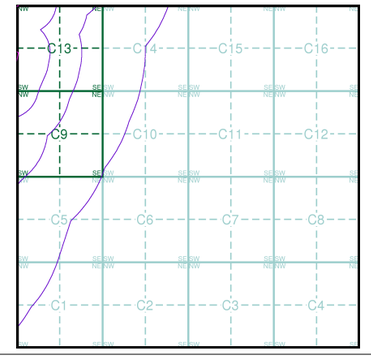
Source map scale - 1:10,000

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 C



Order Details

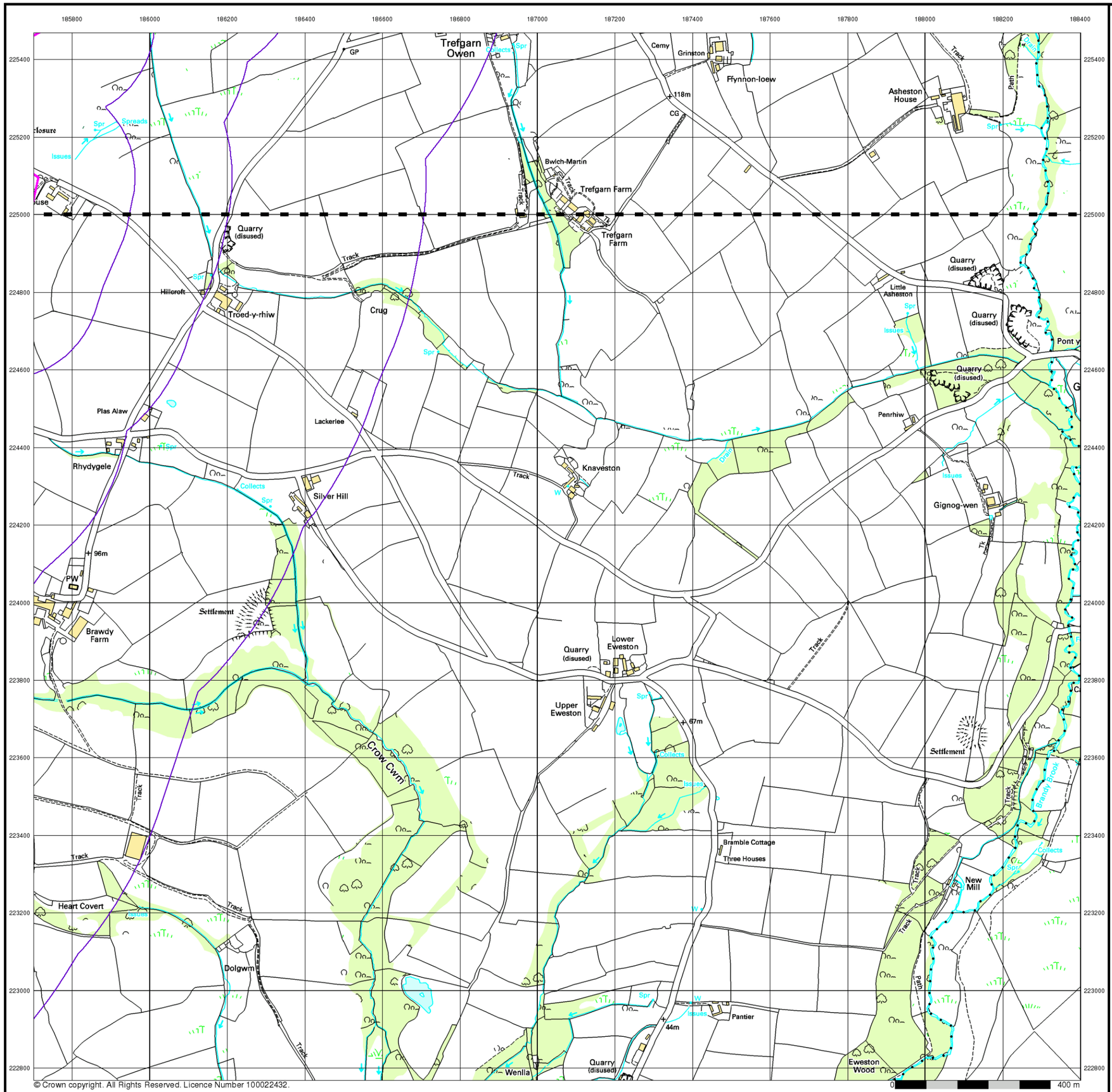
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
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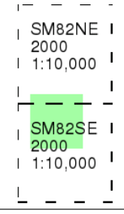
10k Raster Mapping

Published 2000

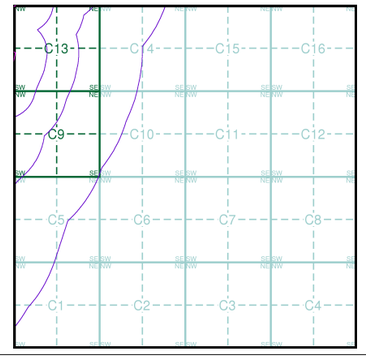
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

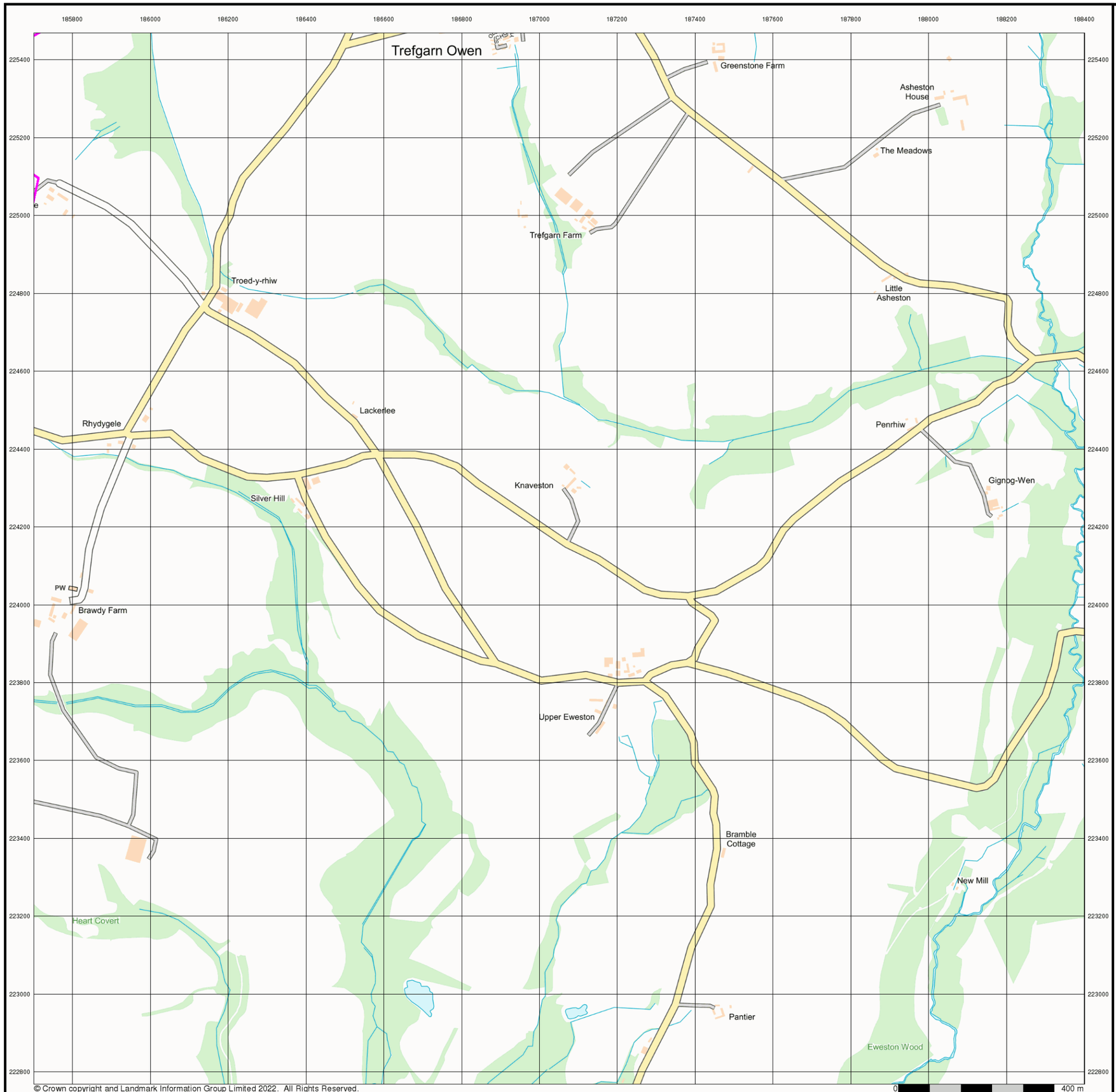
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
Search Buffer (m):	1000

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SWECO

Street View

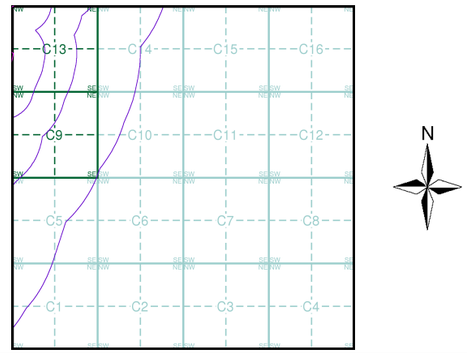
Published 2022

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice C



Order Details

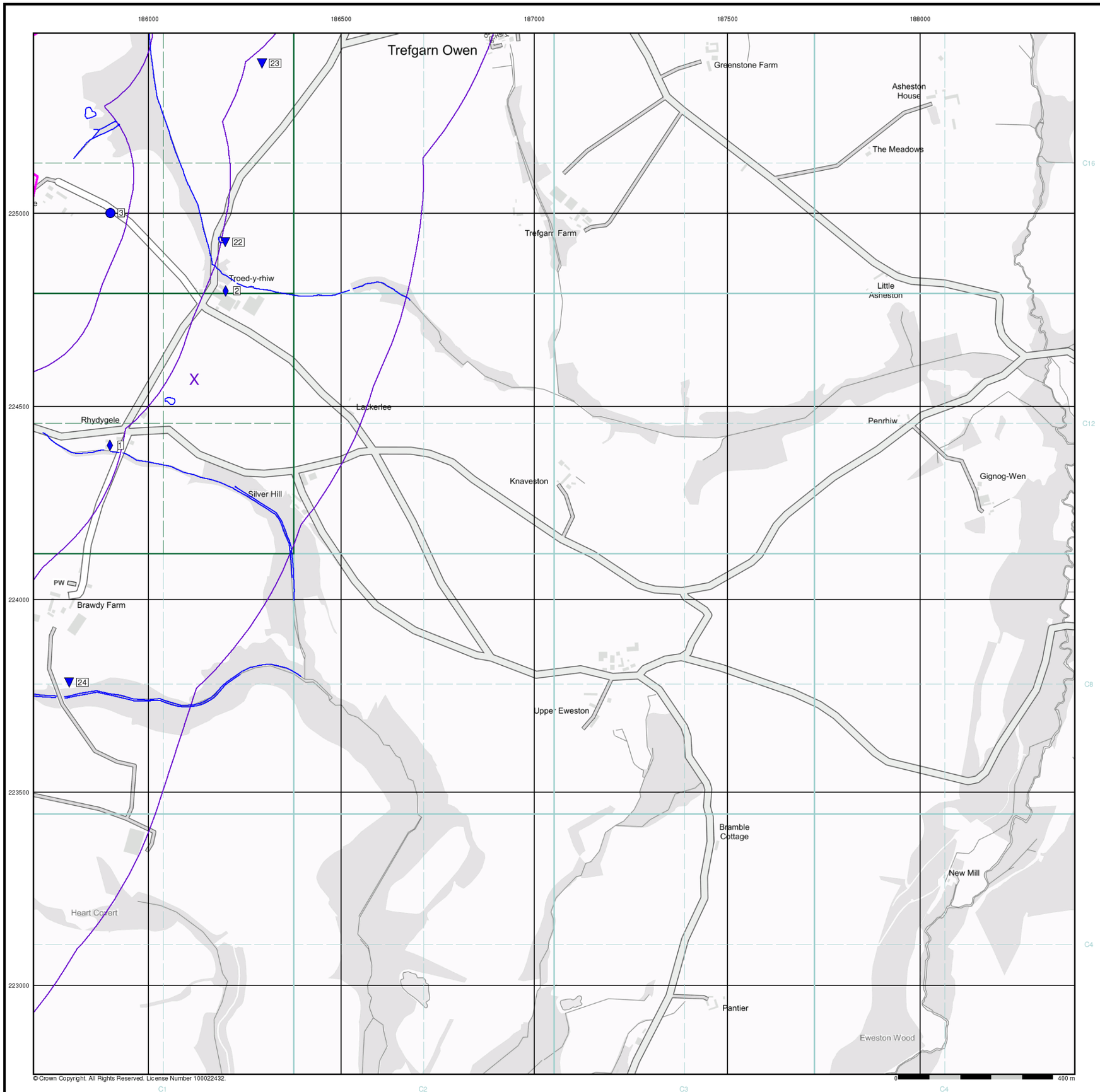
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
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Site Details

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SWECO

General

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

Agency and Hydrological

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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

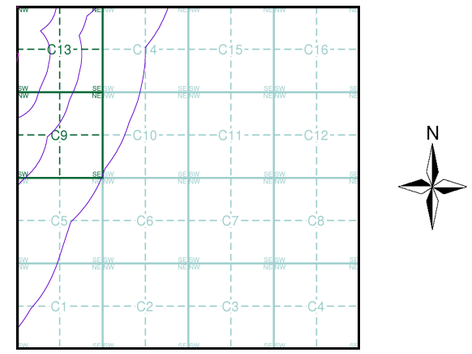
Waste

- 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
- 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

Site Sensitivity Map - Slice C



Order Details

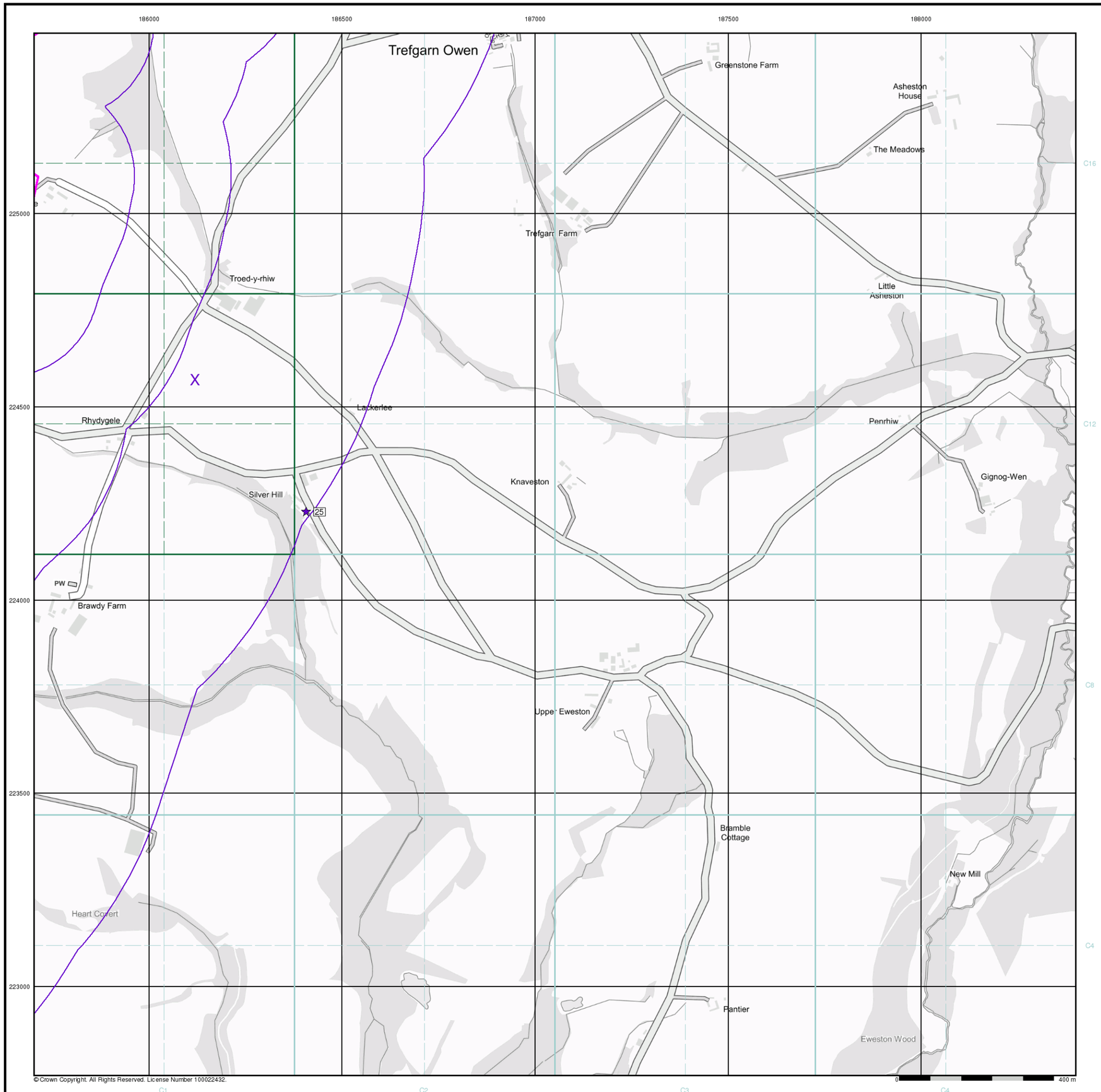
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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SWECO

Industrial Land Use Map

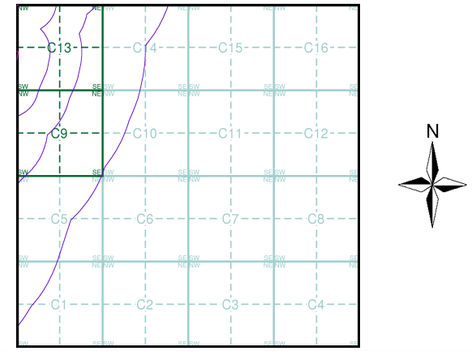
General

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

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry
Gas Pipeline
Underground Electrical Cables

Industrial Land Use Map - Slice C



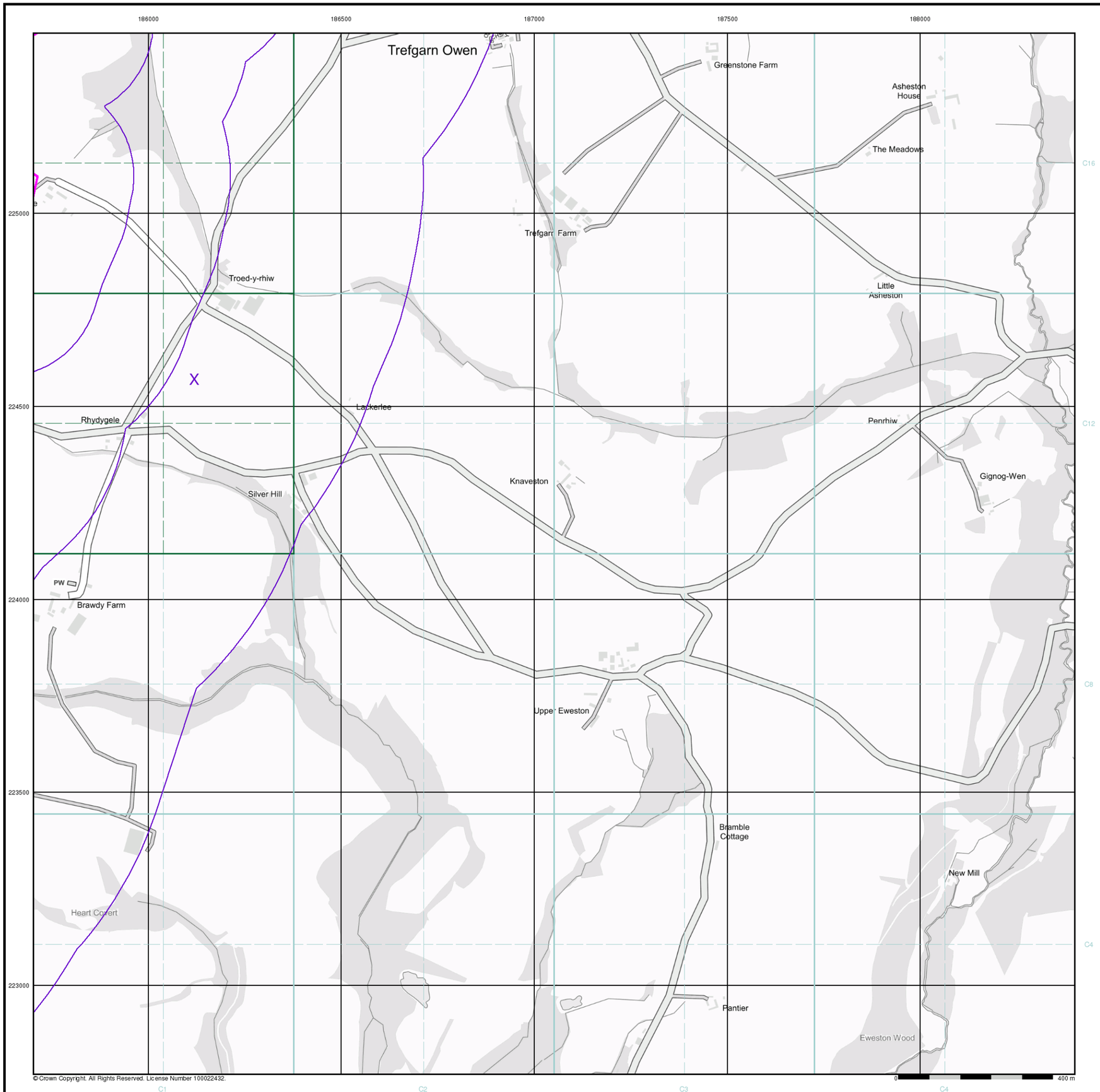
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
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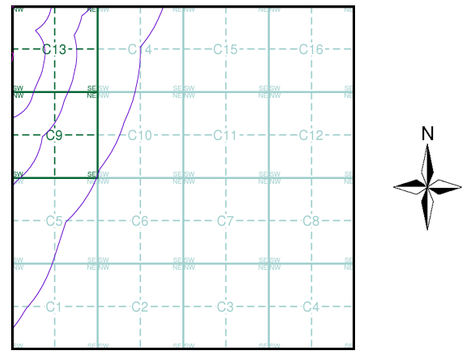
General

- 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 C



Order Details

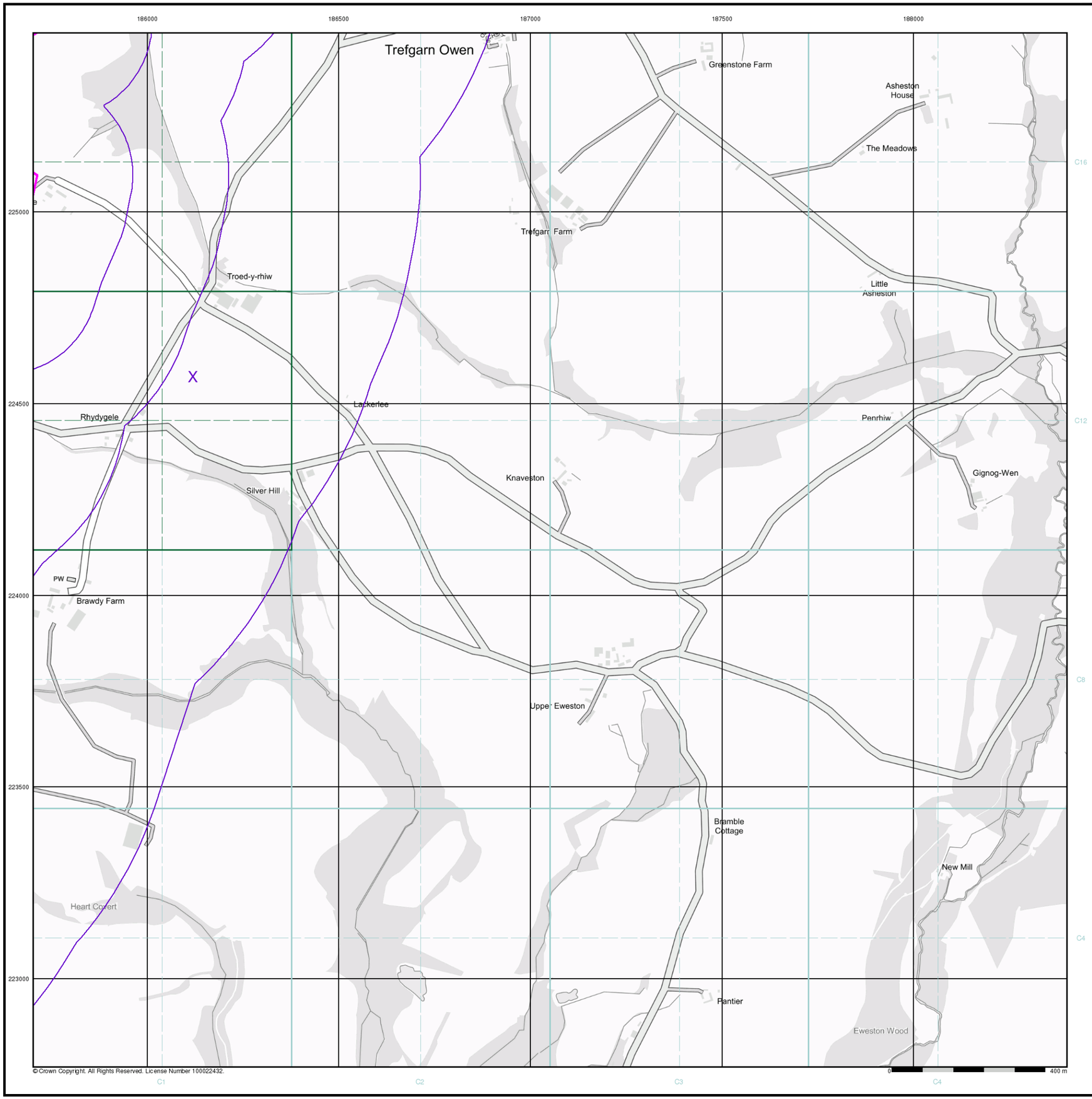
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Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
Search Buffer (m):	1000

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SWECO

General

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

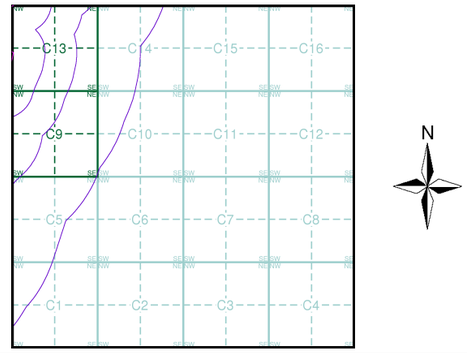
Agency and Hydrological (Boreholes)

- 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



Order Details

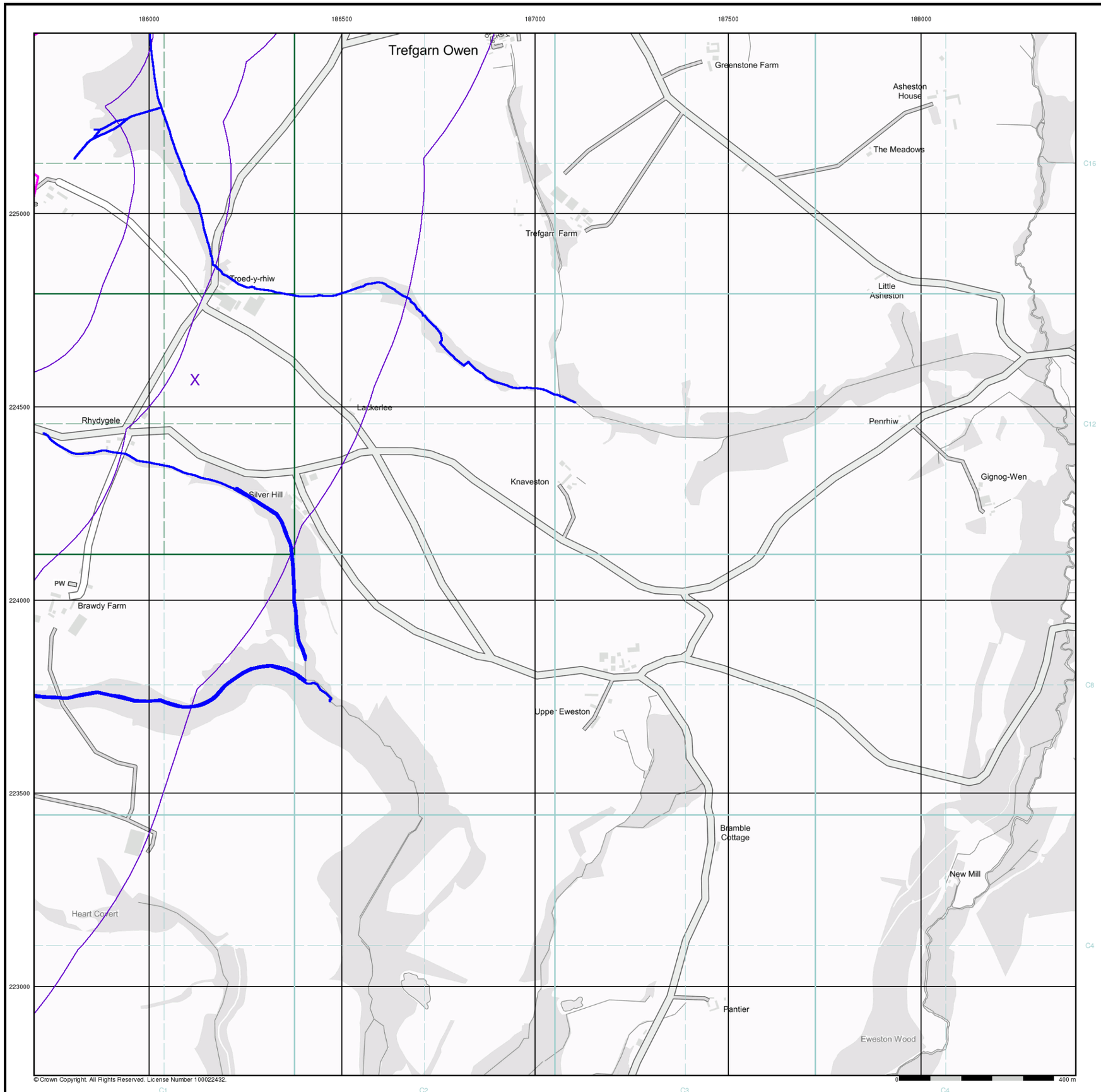
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
Search Buffer (m):	1000

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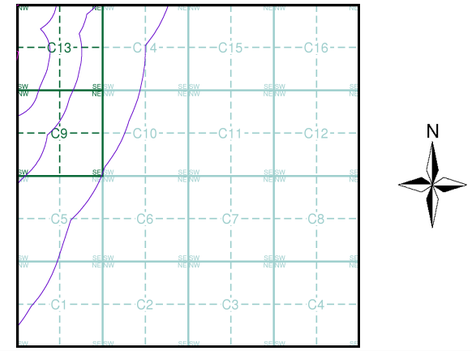
General

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

OS Water Network Data

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

OS Water Network Map - Slice C



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

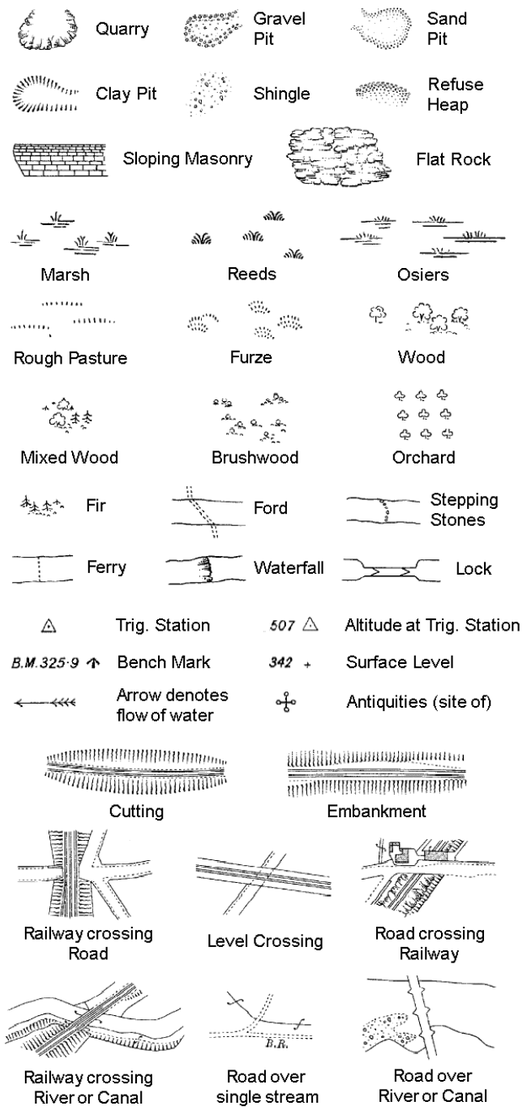
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

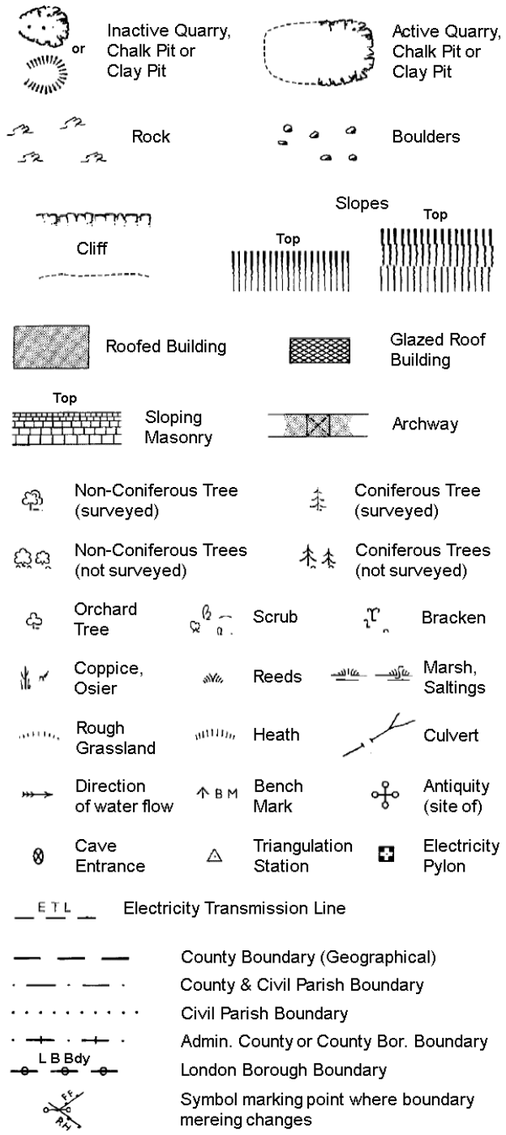
Administrative County & Civil Parish Boundary

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

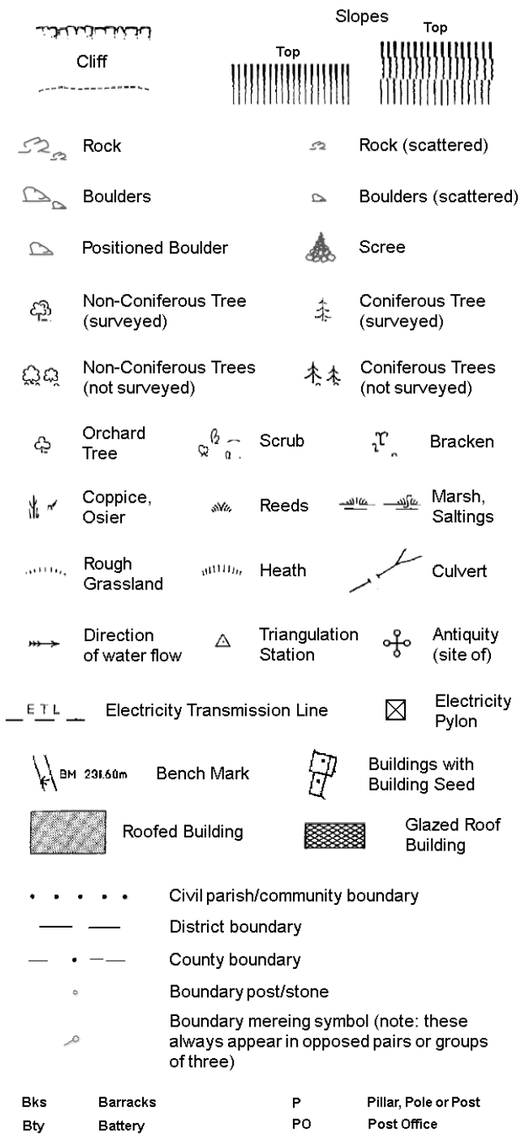
Admin. County or County Bor. Boundary

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)

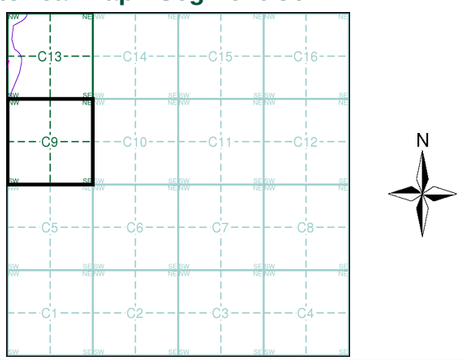
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment C9



Order Details

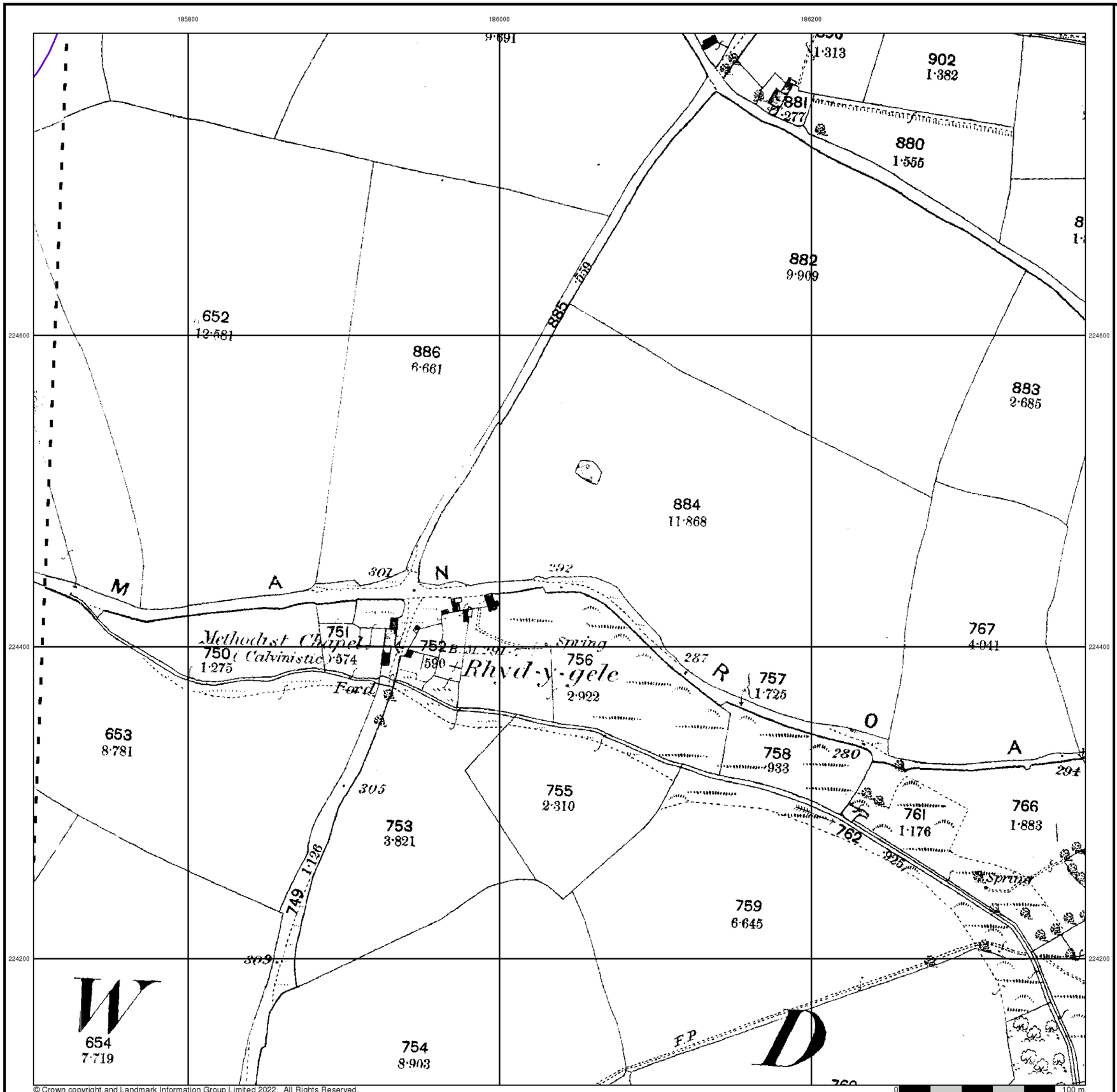
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Customer Ref:	65208061
National Grid Reference:	186120, 224570
Slice:	C
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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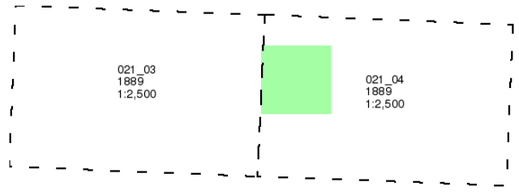
Pembrokeshire

Published 1889

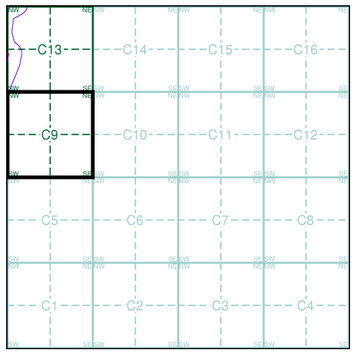
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment C9



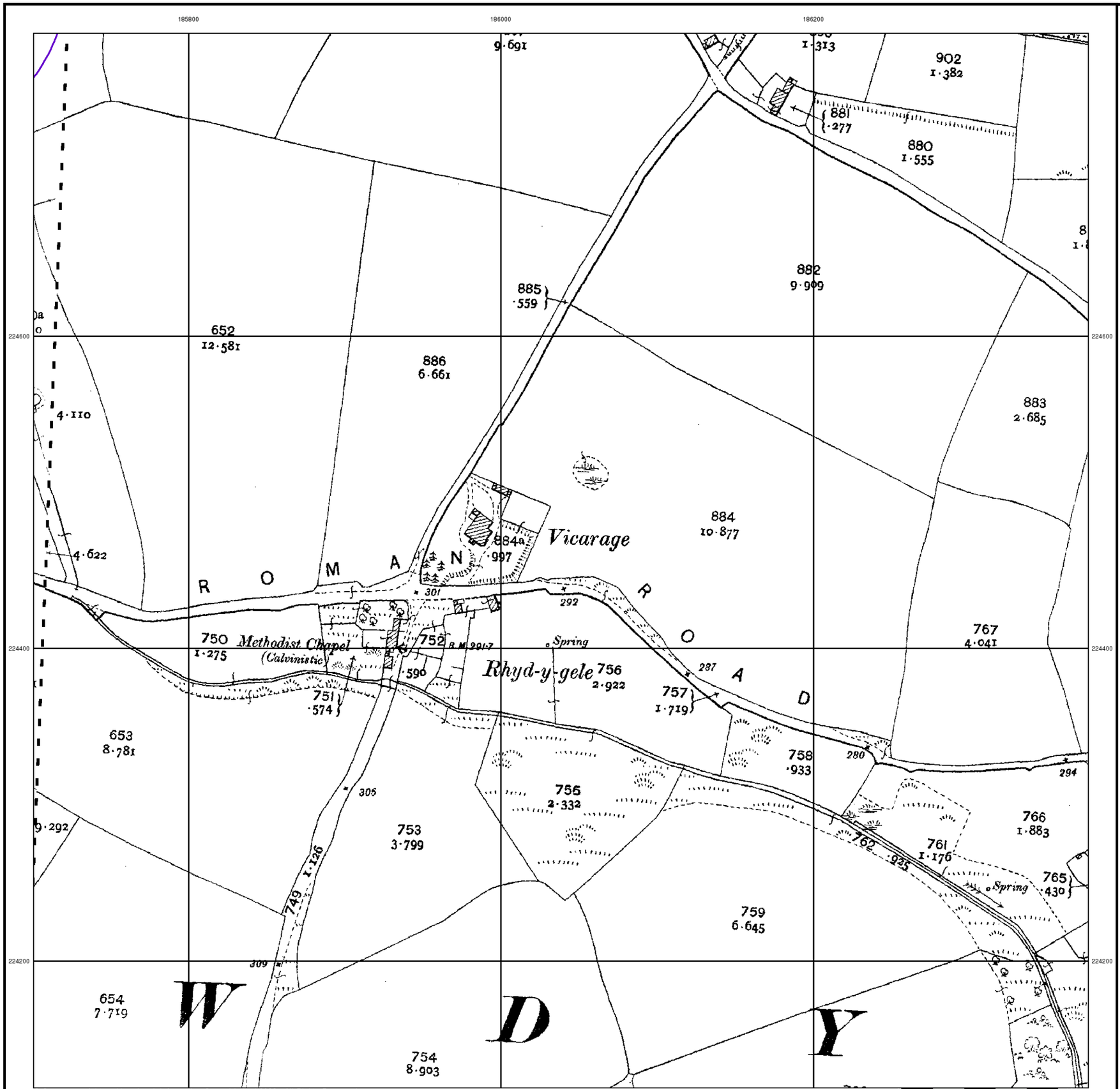
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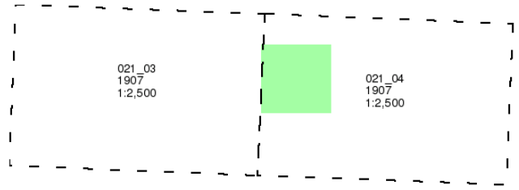
Pembrokeshire

Published 1907

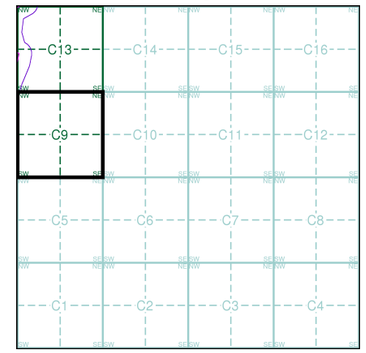
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment C9



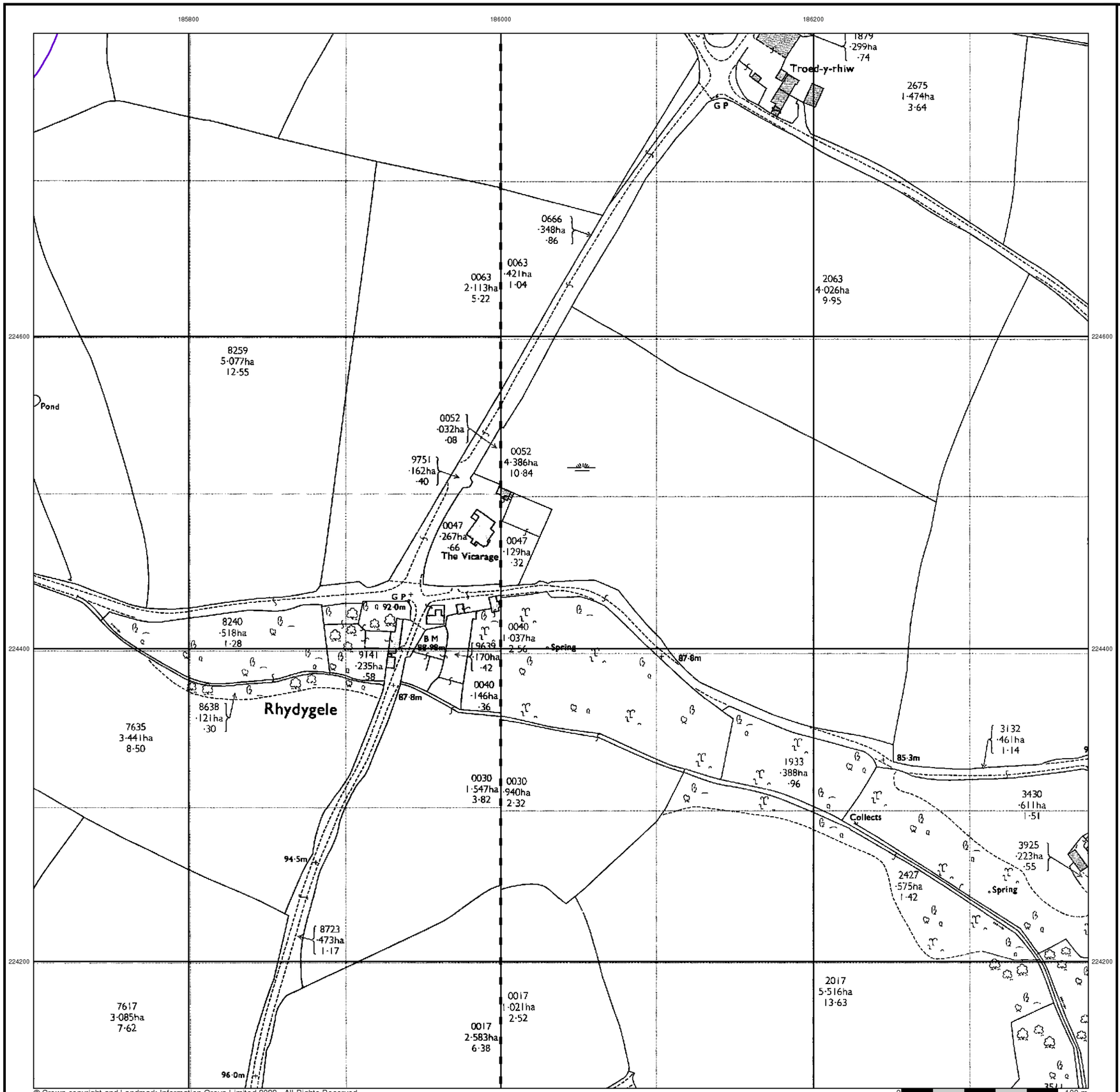
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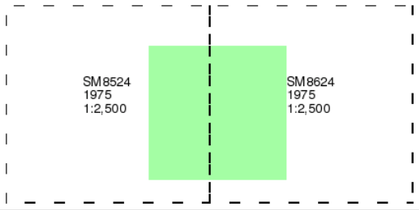
Ordnance Survey Plan

Published 1975

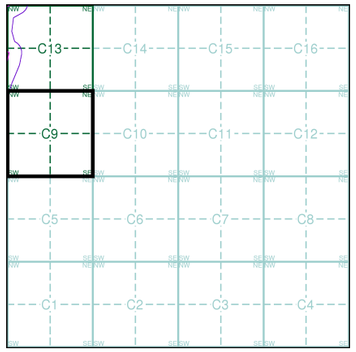
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment C9



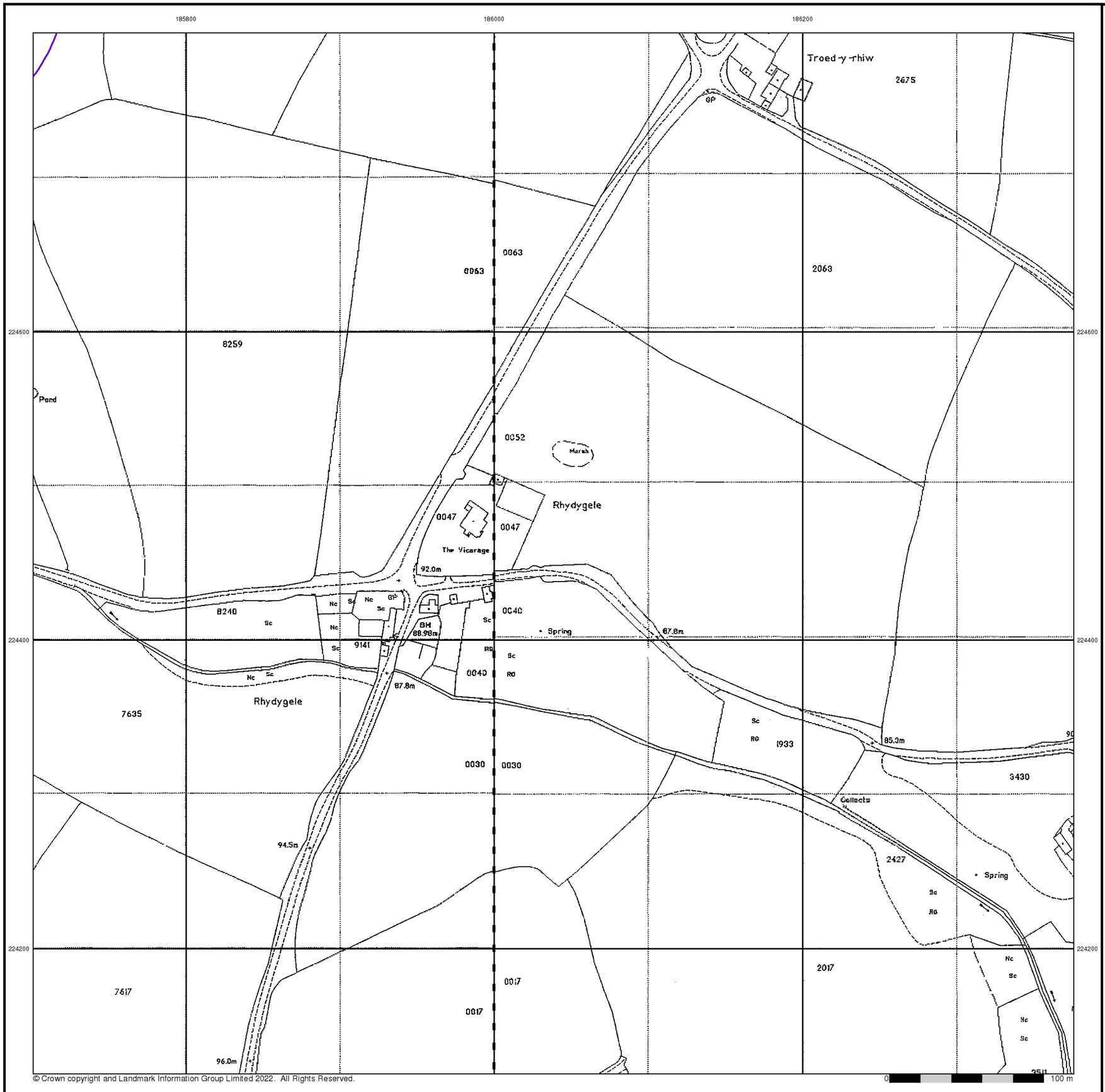
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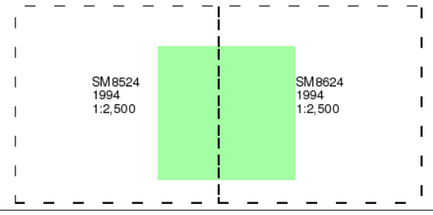
Large-Scale National Grid Data

Published 1994

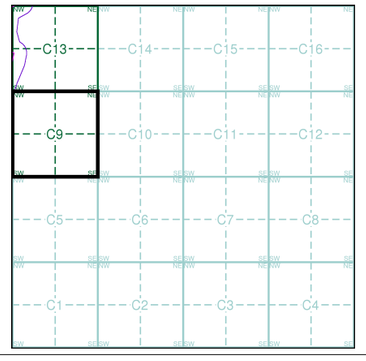
Source map scale - 1:2,500

'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 C9



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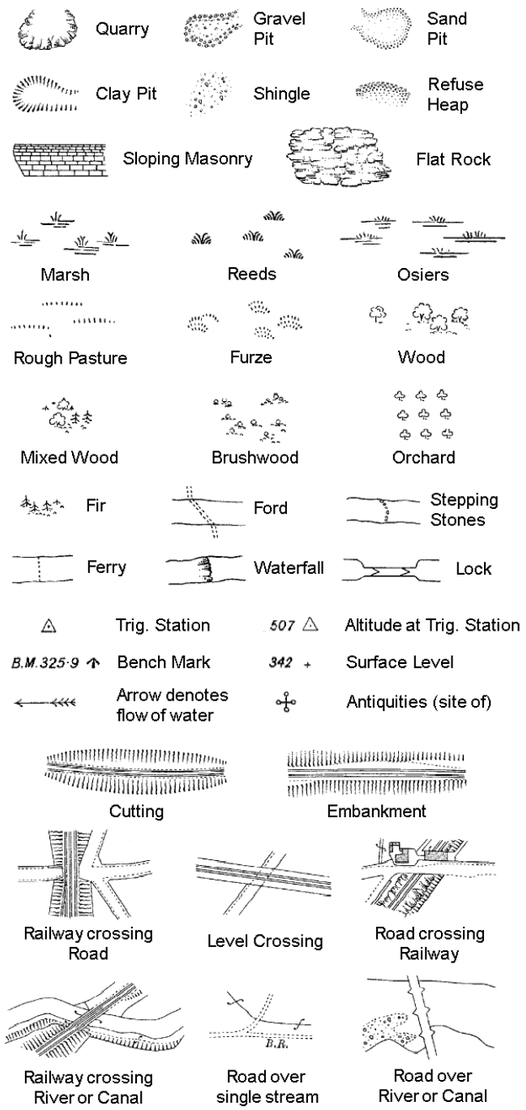
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Historical Mapping Legends

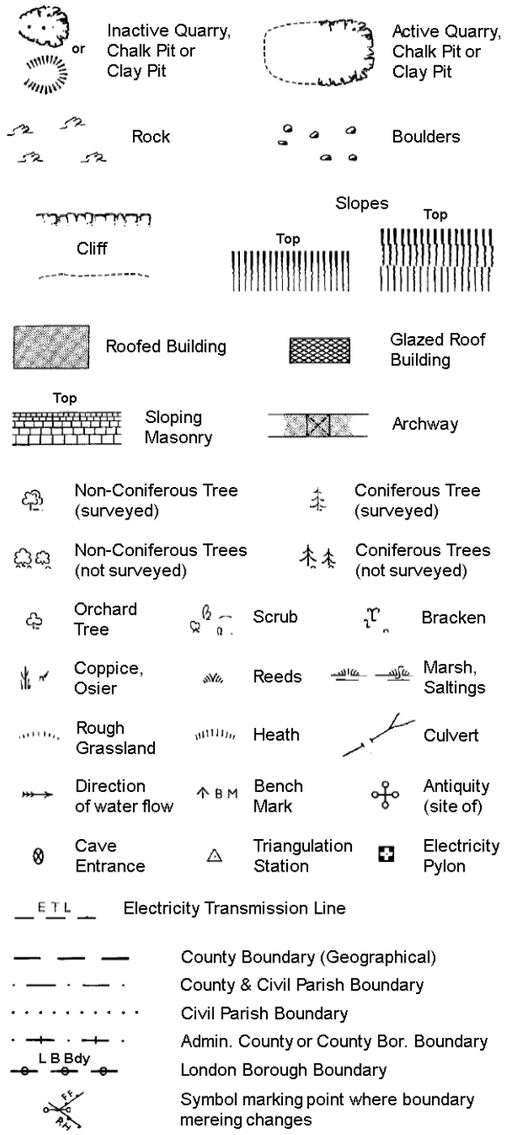
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

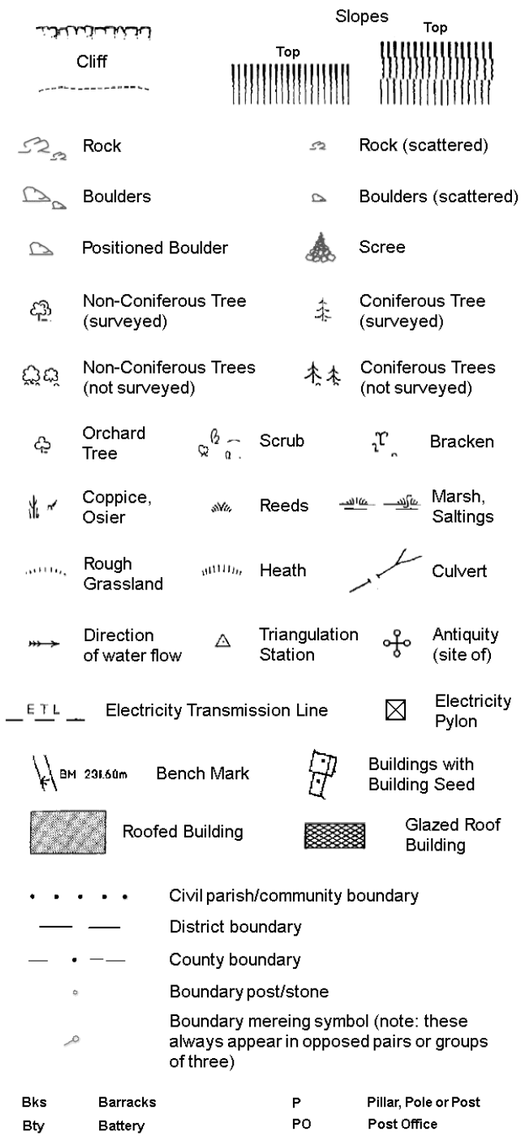
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

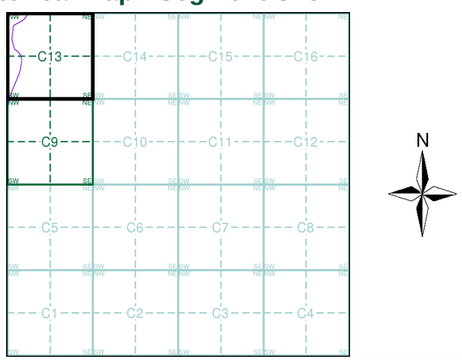
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment C13



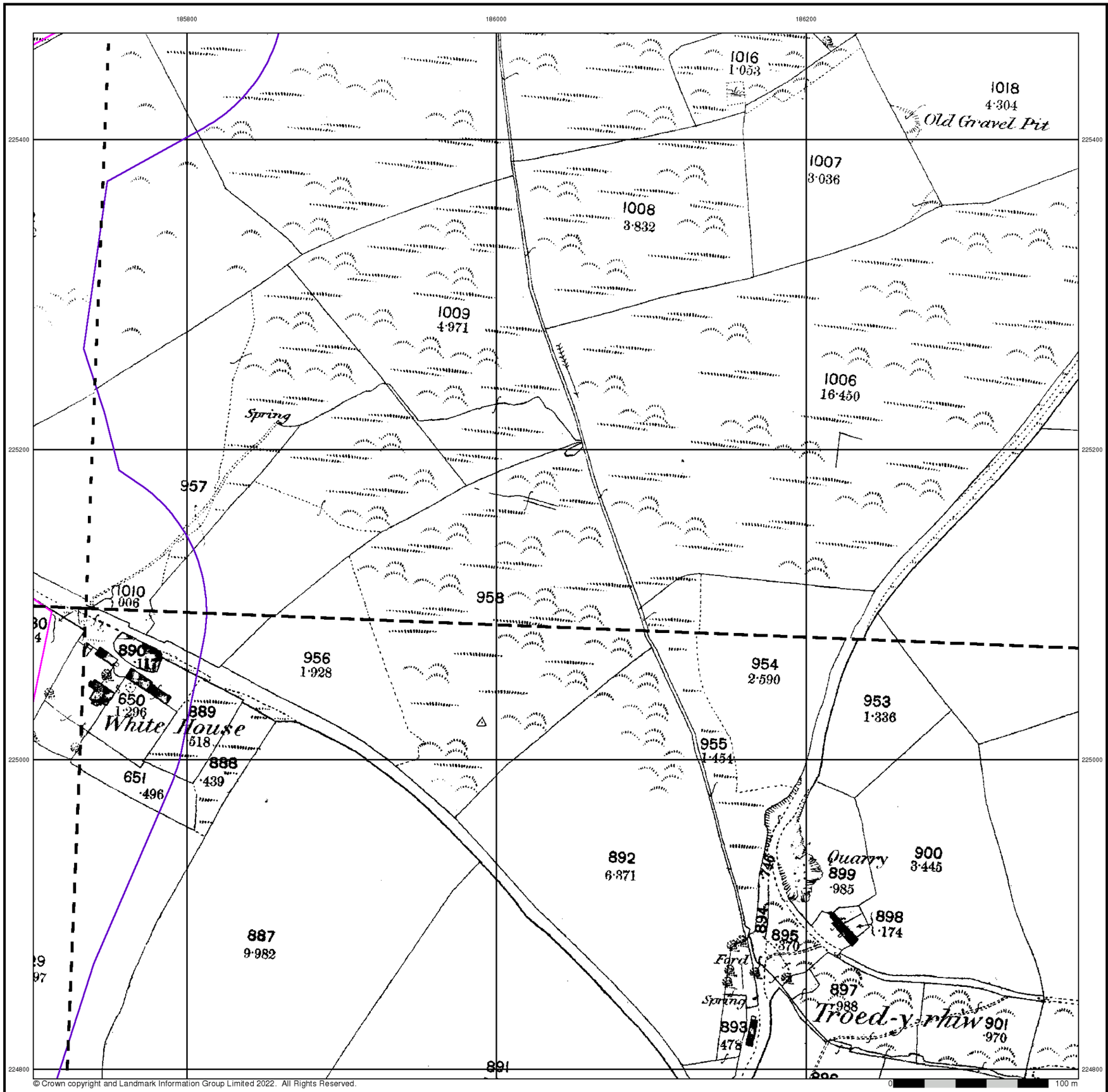
Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 186120, 224570
Slice: C
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

Cawdor site

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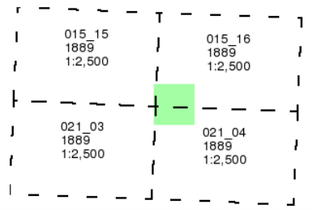
Pembrokeshire

Published 1889

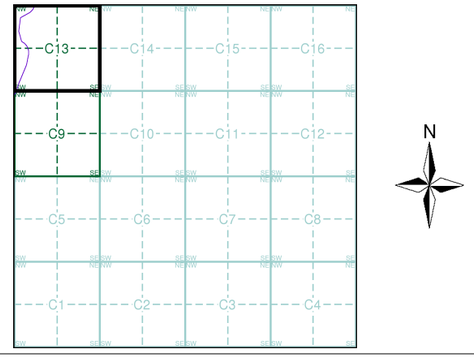
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment C13



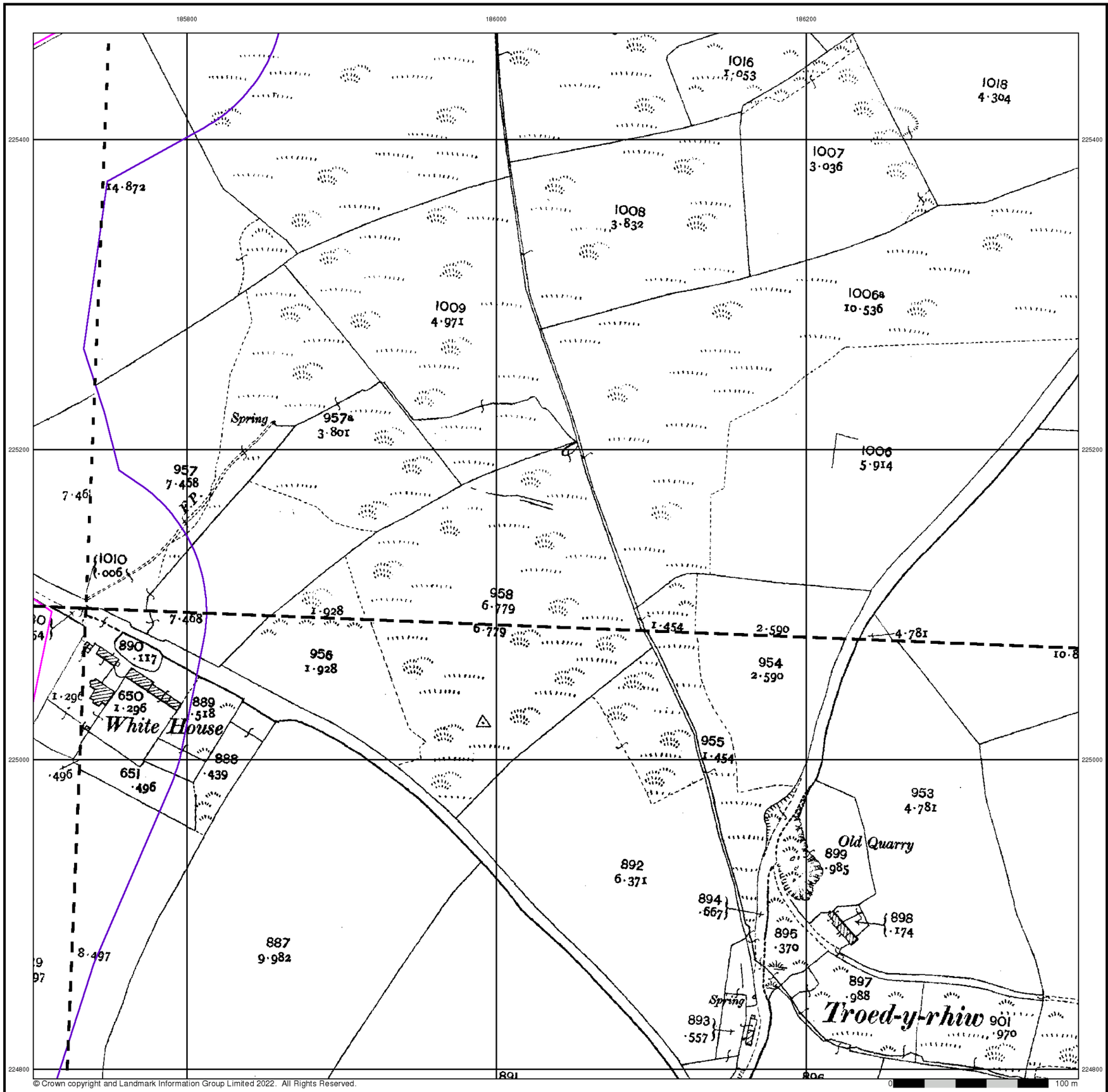
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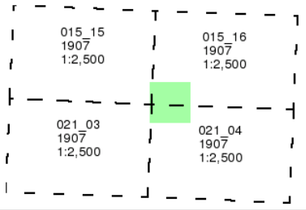
Pembrokeshire

Published 1907

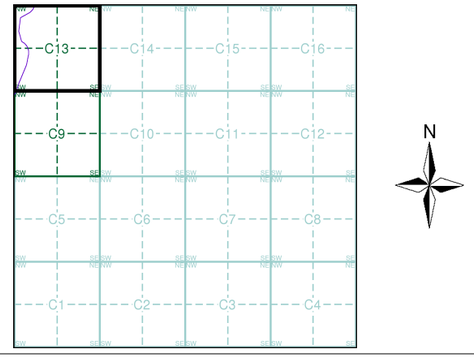
Source map scale - 1:2,500

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Historical Map - Segment C13



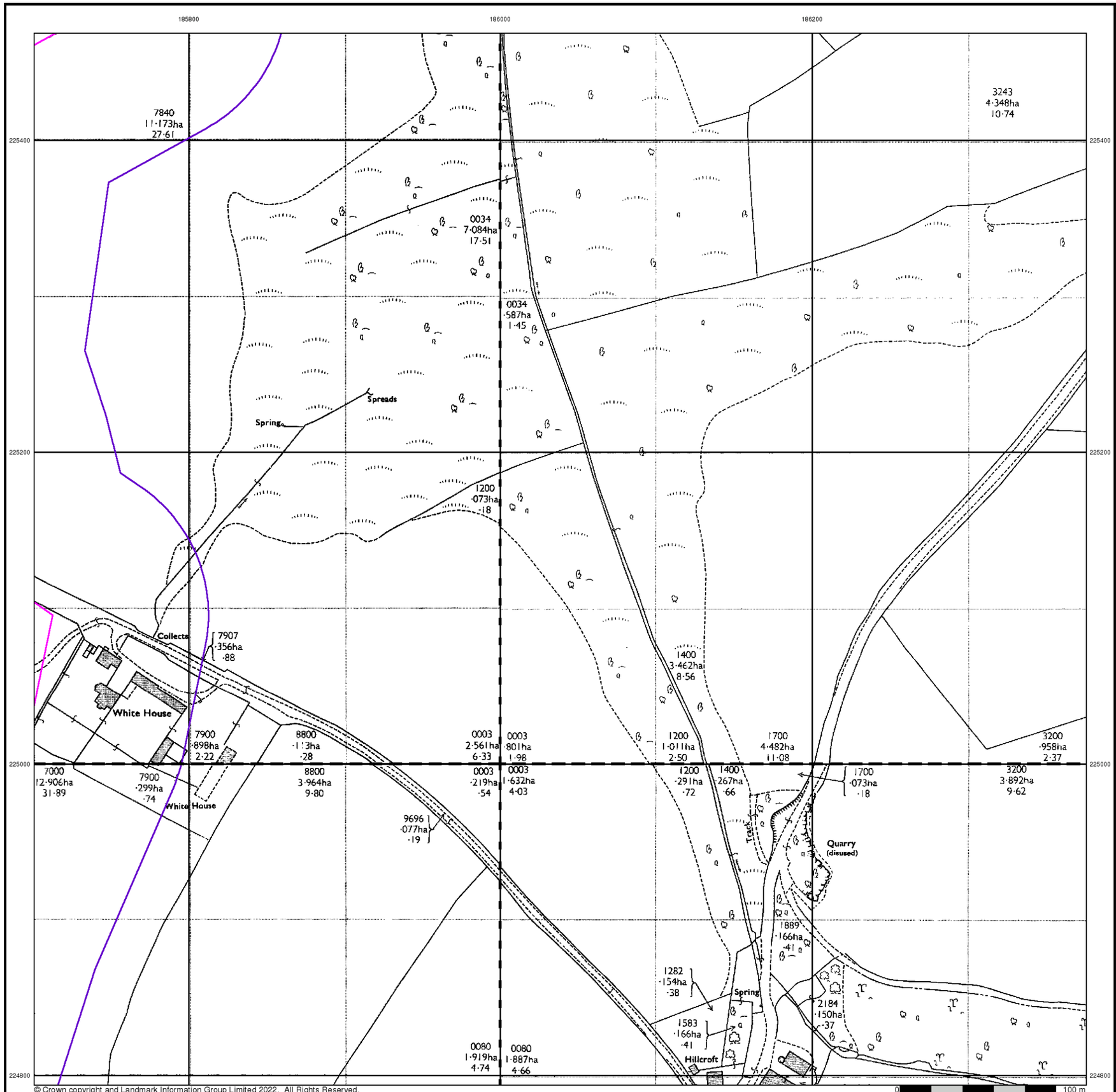
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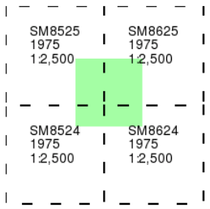
Ordnance Survey Plan

Published 1975

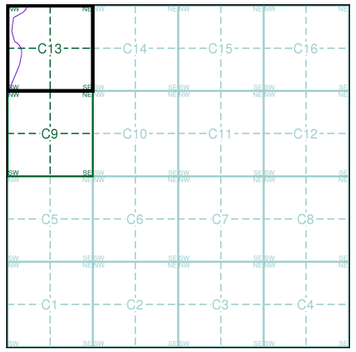
Source map scale - 1:2,500

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Historical Map - Segment C13



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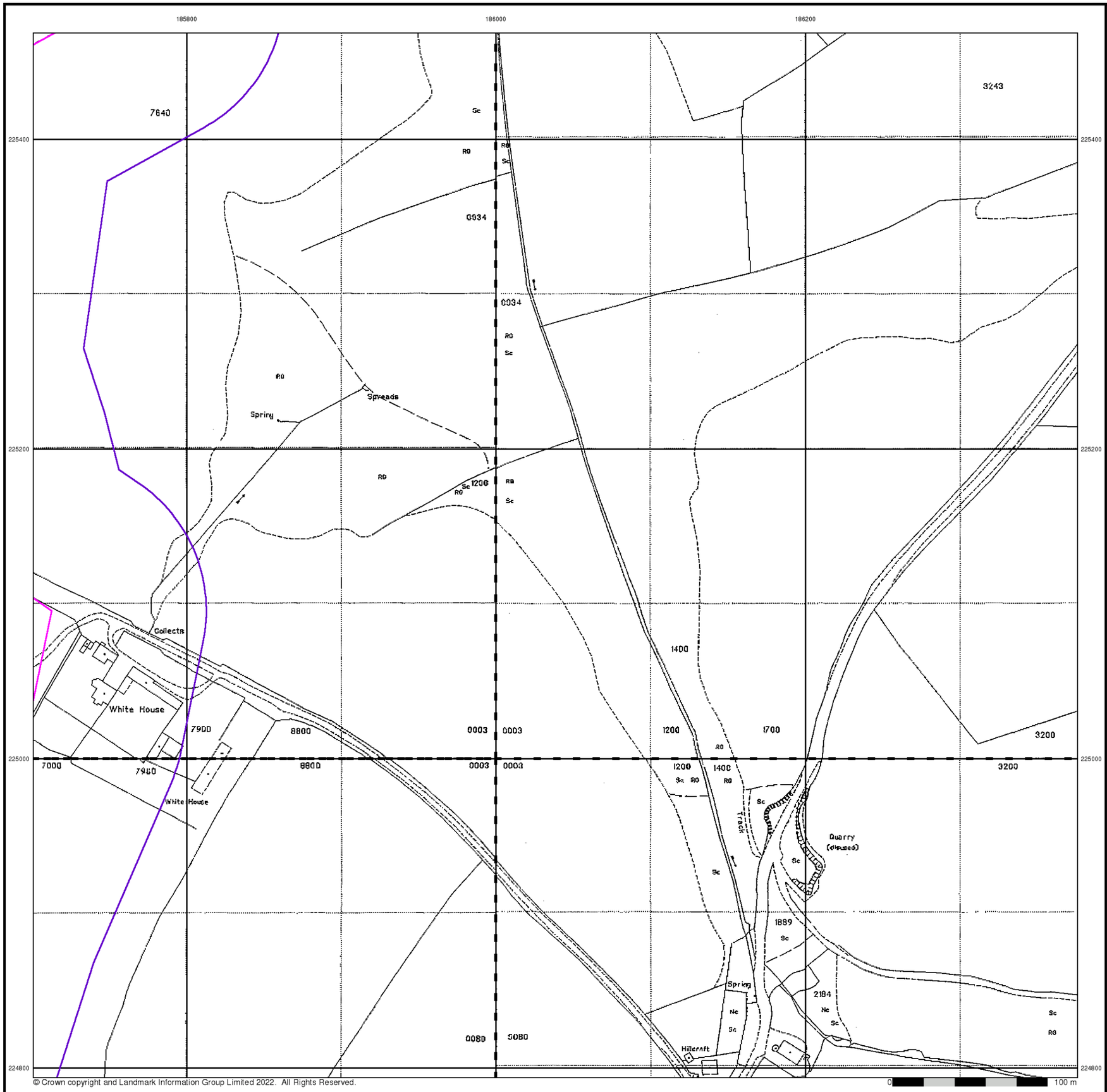
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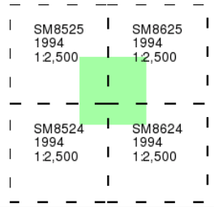
Large-Scale National Grid Data

Published 1994

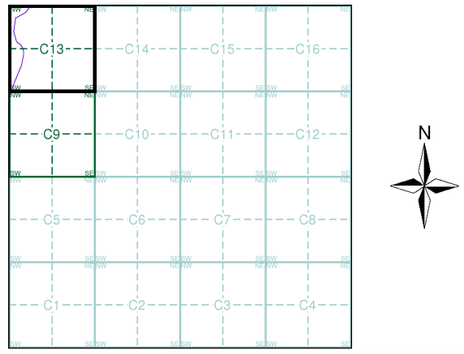
Source map scale - 1:2,500

'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 C13



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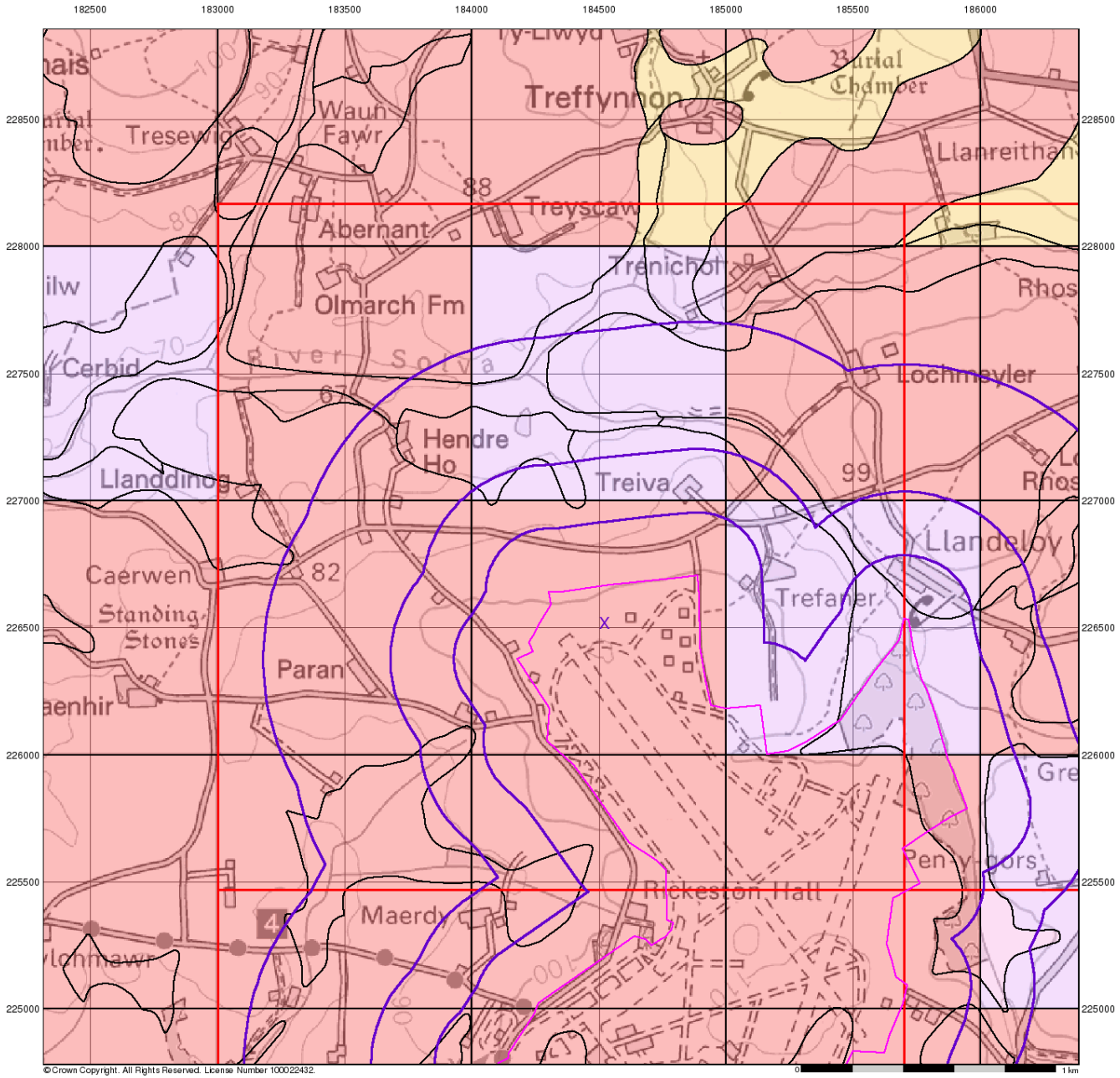
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Groundwater Vulnerability

General

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

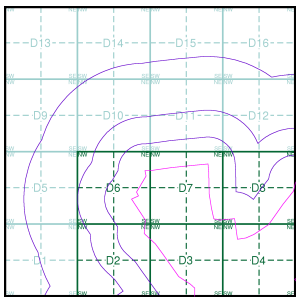
Agency and Hydrological

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

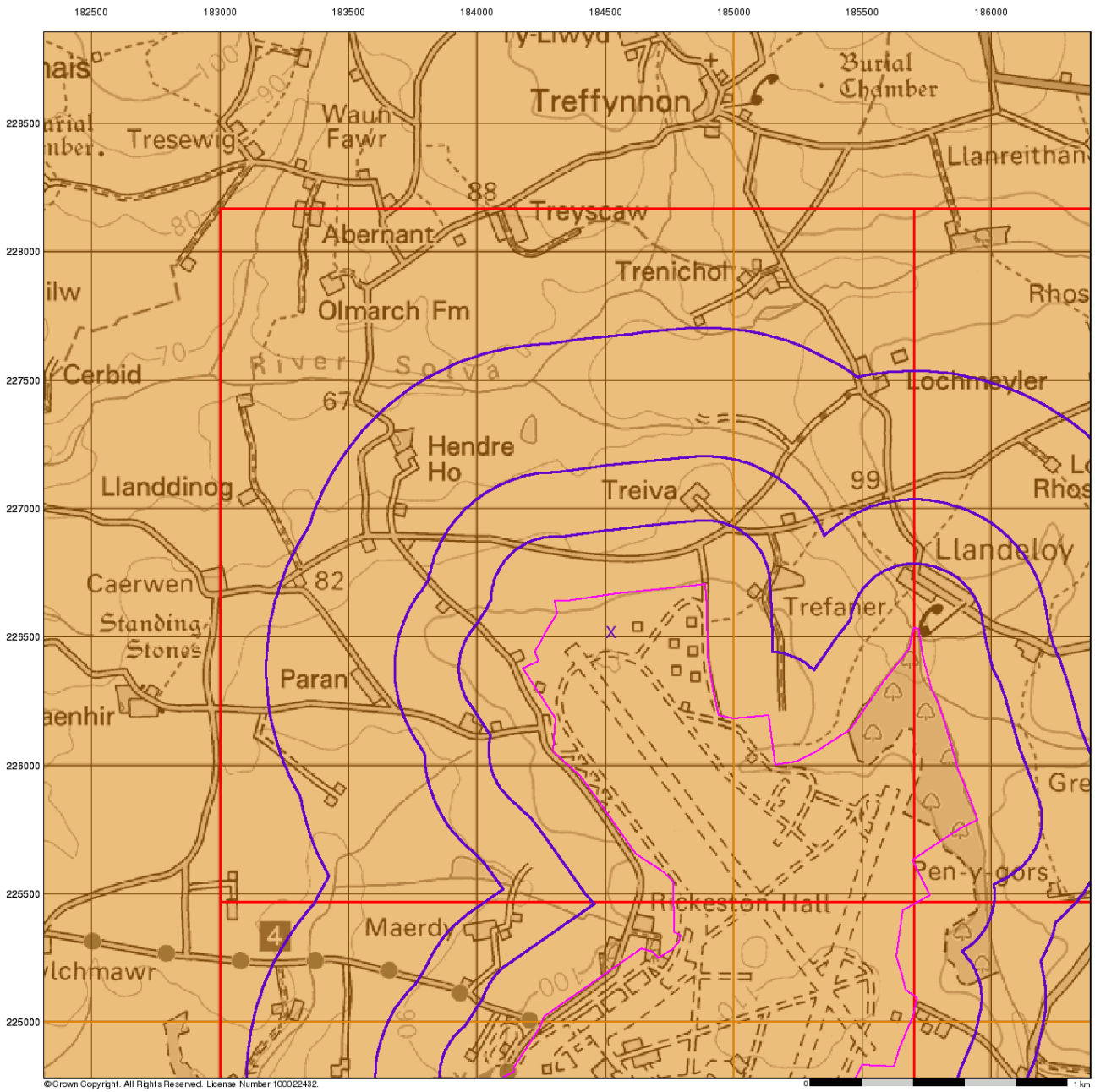
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

Landmark INFORMATION GROUP

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



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Bedrock Aquifer Designation

General

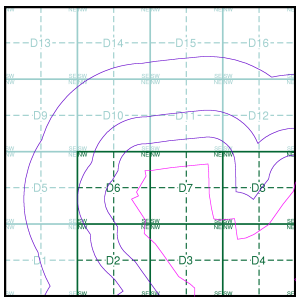
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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 D



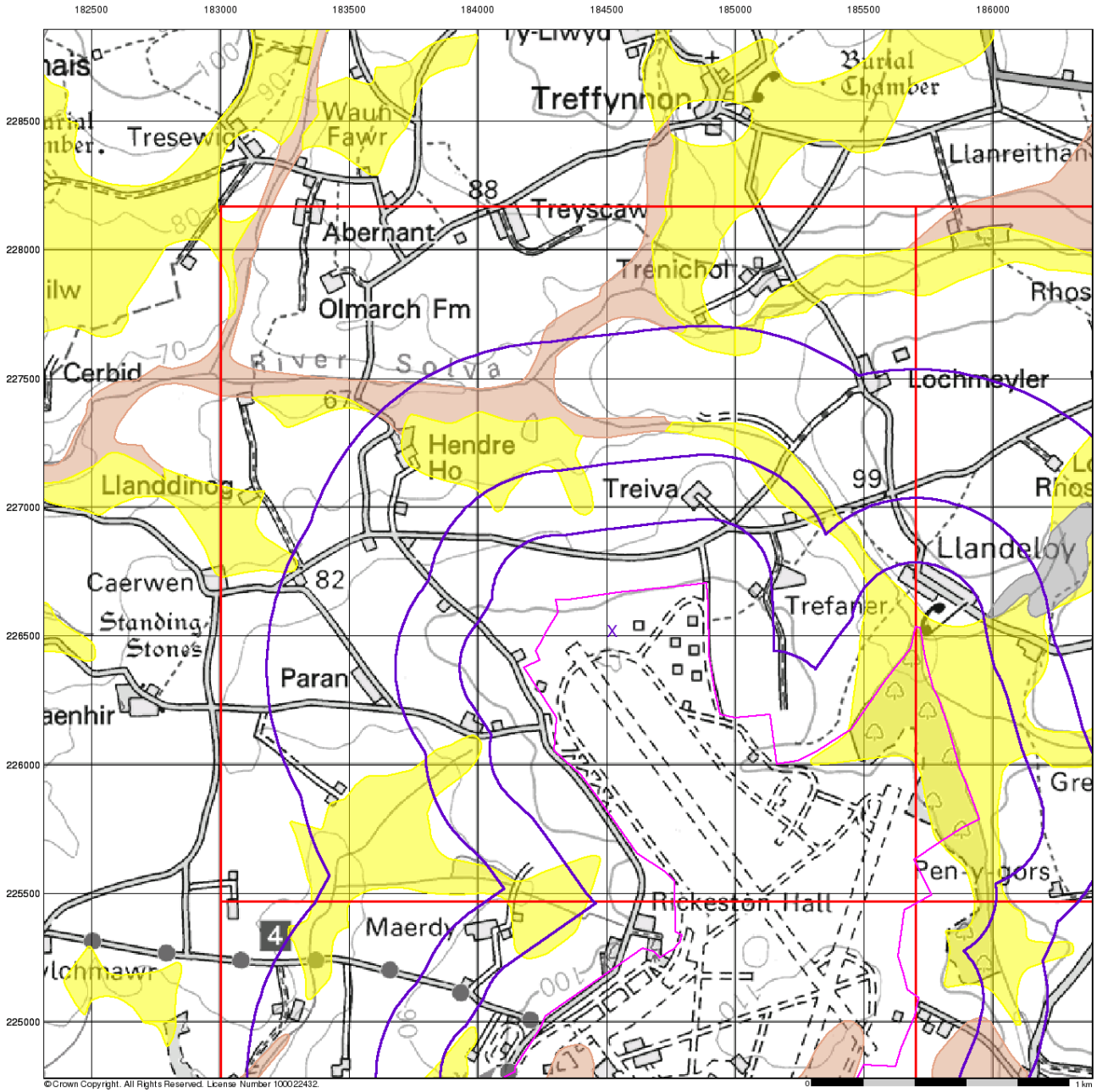
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

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



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Superficial Aquifer Designation

General

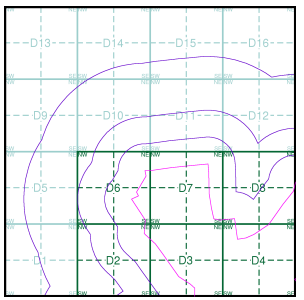
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice D



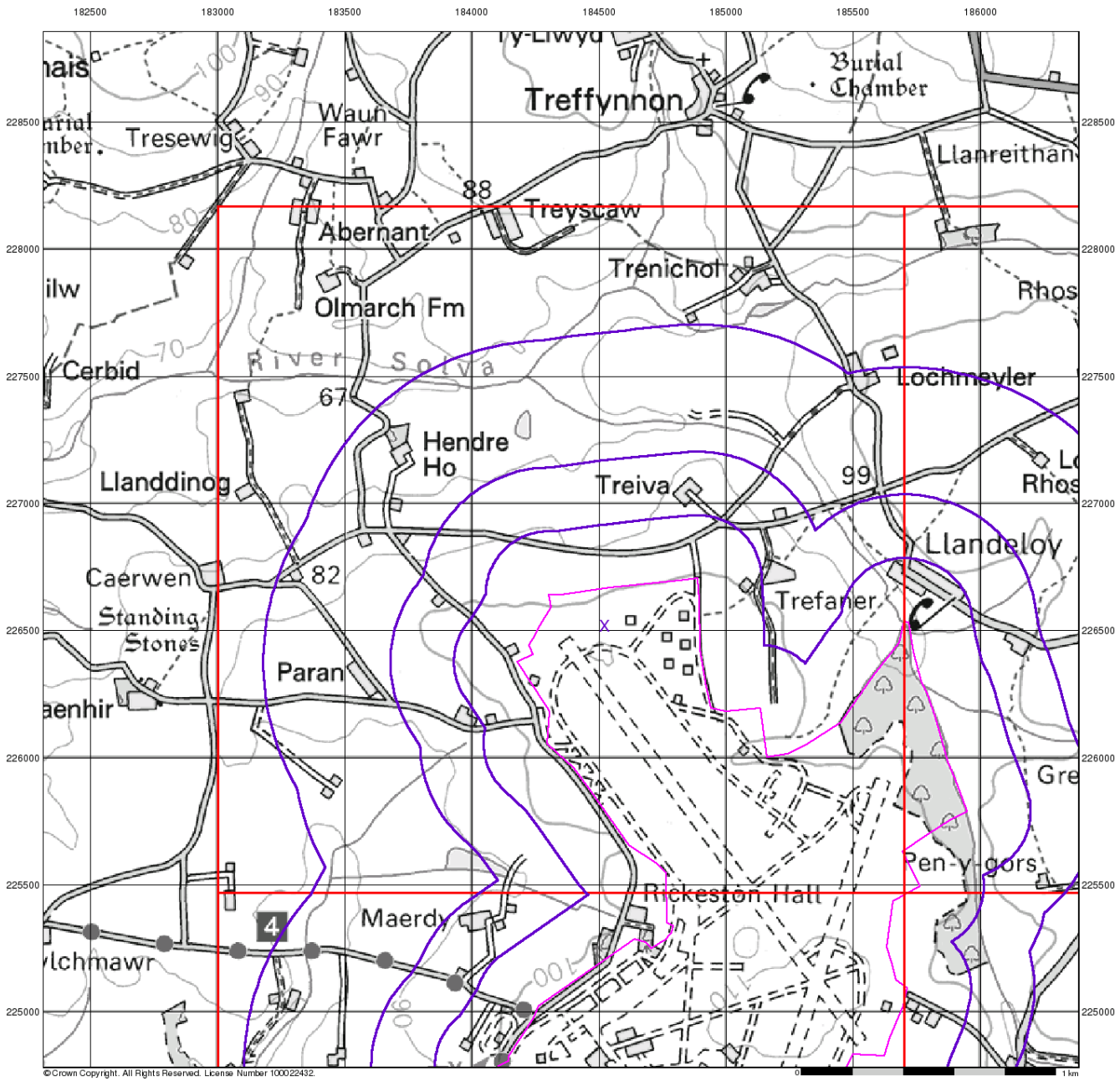
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

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Source Protection Zones

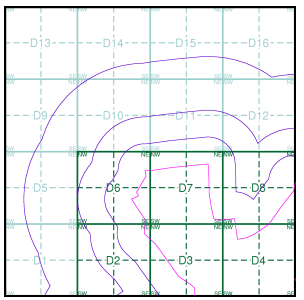
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice D



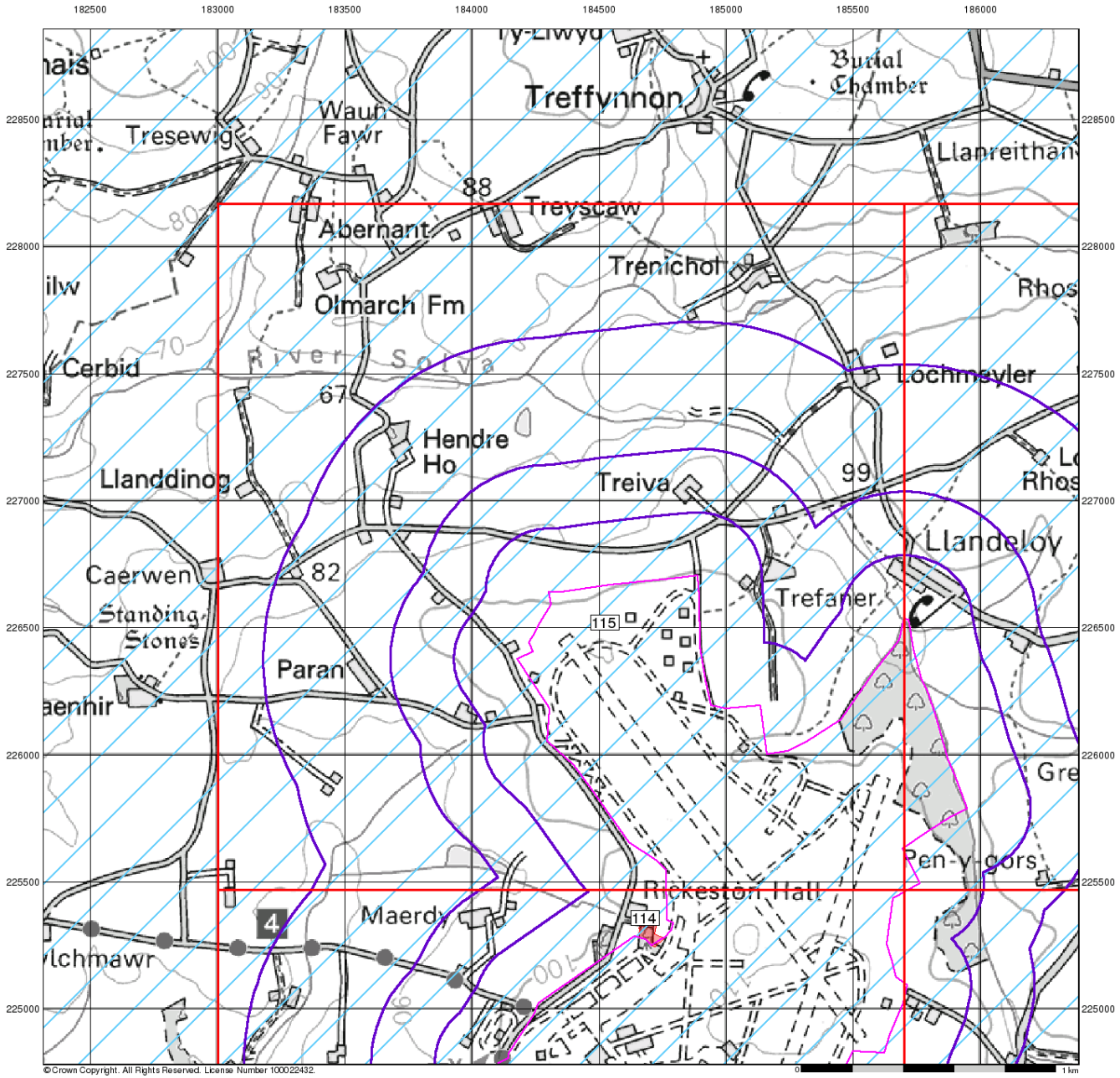
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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Sensitive Land Uses

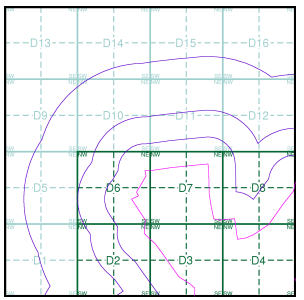
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice D



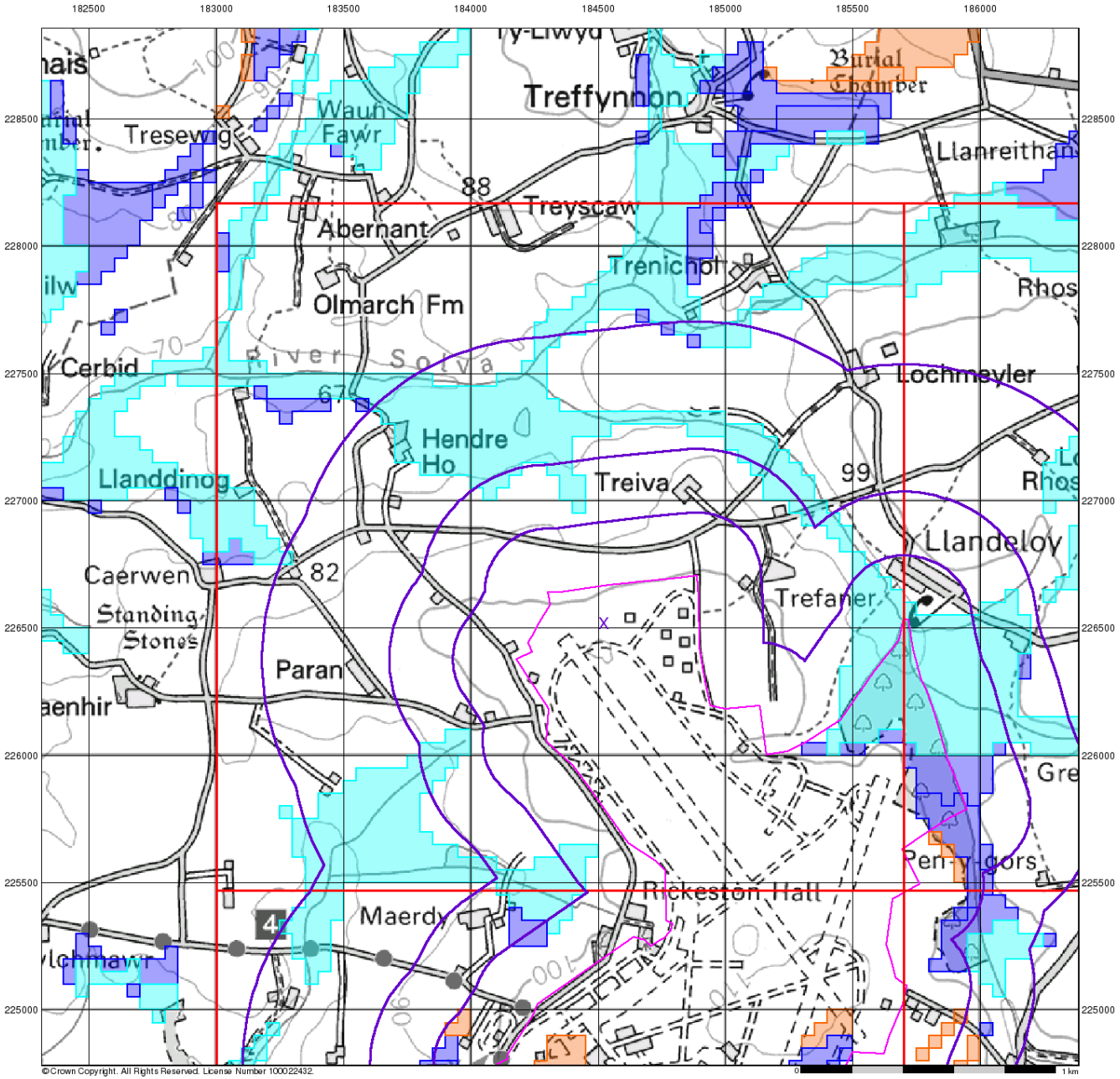
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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Web: www.envirocheck.co.uk



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BGS Flood GFS Data

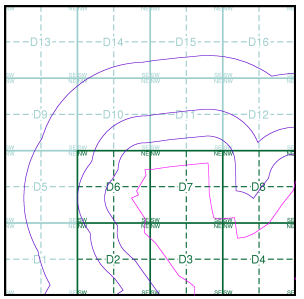
General

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



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
305022956_1_1

Customer Reference:
65208061

National Grid Reference:
184520, 226520

Slice:
D

Site Area (Ha):
308.46

Search Buffer (m):
1000

Site Details:

Cawdor site

Client Details:

Sweco Services UK Ltd
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

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Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	21
Hazardous Substances	-
Geological	22
Industrial Land Use	25
Sensitive Land Use	26
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Data Suppliers	31
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Introduction

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

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Report Version v53.0

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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 2		2		
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature		Yes			
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 3			1	1 (*7)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 5	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 8	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 9	3	22	29	50

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 21	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 22	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 22	2			3
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	pg 23	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 23	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 23	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 23	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 23	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 24	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 24	Yes	n/a	n/a	n/a

SWECO

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 25				1
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 26	1			
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 26	1			
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	D4NE (E)	0	1	185600 226100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	185450 224850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	185400 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	0	1	184450 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D4NE (E)	0	1	185700 226050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	185750 225850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	0	1	185400 225000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D4NW (SE)	0	1	185300 226050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D4NE (SE)	0	1	185450 226050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D8SE (E)	0	1	185450 226350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	0	1	185300 224850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	3	1	185800 225700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	72	1	185850 225650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D2NW (SW)	99	1	184000 226100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	103	1	185850 225350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	115	1	185750 224850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	138	1	185900 225600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	143	1	185800 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	148	1	186000 225650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	154	1	183950 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	154	1	184000 225000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	155	1	183950 224900

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	(S)	166	1	184200 225400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	167	1	185900 225400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	169	1	185850 224950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	170	1	186050 226050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	203	1	185900 225000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SE)	244	1	185950 225300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	274	1	185900 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	281	1	185950 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D11SW (N)	292	1	184450 226950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	311	1	186000 224950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D12SW (NE)	332	1	185150 227000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(E)	353	1	186150 226400
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Llandeloy Ps (Emergency) Authority: Natural Resources Wales Catchment Area: SOLVA - HEADWATERS TO TIDAL LIMIT Reference: BH0057002 Permit Version: 1 Effective Date: 29th October 1976 Issued Date: 29th October 1976 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Of River Solfach **Status: Effective** Positional Accuracy: Located by supplier to within 100m	D8NE (E)	192	2	185600 226700
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Llandeloy Ps (Emergency) Authority: Natural Resources Wales Catchment Area: SOLVA - HEADWATERS TO TIDAL LIMIT Reference: Bh0057002 Permit Version: 1 Effective Date: 29th October 1976 Issued Date: 29th October 1976 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Trib Of River Solfach **Status: Effective** Positional Accuracy: Located by supplier to within 100m	D8NE (E)	192	2	185600 226700
	Nearest Surface Water Feature	D8SE (E)	0	-	185607 226376

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Water Abstractions** Operator: E R Harries Licence Number: 22/61/2/0088 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Impounding Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D2SE (S)	428	2	184200 225500
3	**Water Abstractions** Operator: Mr M Jones Licence Number: 22/61/2/0024 Permit Version: 100 Location: Llandeloy Brook Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Solva Authorised Start: 01 May Authorised End: 30 June Permit Start Date: 1st August 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D12SW (NE)	571	2	185300 227100
	Water Abstractions Operator: M G Jones Licence Number: 22/61/2/0024 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 709 Yearly Rate (m3): 4059.6 Details: Llandeloy Brook Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D15NE (N)	1204	3	184700 227895
	Water Abstractions Operator: Mr M Jones Licence Number: 22/61/2/0024 Permit Version: 100 Location: River Solva Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-May to 30-Jun Authorised Start: 01 May Authorised End: 30 June Permit Start Date: 1st August 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D16NE (NE)	1364	2	185680 227900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: M G Jones Licence Number: 22/61/2/0024 Permit Version: Not Supplied Location: Land At Lochmeyler Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Direct 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: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D16NE (NE)	1364	2	185680 227900
	Water Abstractions Operator: J G Jones Licence Number: 22/61/2/0038 Permit Version: Not Supplied Location: River Solva At, Cerbid Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 144 Yearly Rate (m3): 2091.16 Details: Licenced from 01-Apr to 31-Aug Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NW)	1561	3	183000 227500
	Water Abstractions Operator: W J J Evans Licence Number: 22/61/2/0026 Permit Version: Not Supplied Location: River Solva At, Kerbid Farm, SOLVA Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 216 Yearly Rate (m3): 3136.74 Details: Licenced from 01-Apr to 31-Aug Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NW)	1779	3	182730 227470
	Water Abstractions Operator: Mr J Jones Licence Number: 22/61/2/0038 Permit Version: 100 Location: River Solva At Cerbid Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Solva At Cerbid Authorised Start: 01 April Authorised End: 31 August Permit Start Date: 2nd August 1984 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1917	3	182500 227300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr & Mrs A & N Jones Licence Number: 22/61/2/0038 Permit Version: 101 Location: River Solva Adjacent To Cerbid Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 August Permit Start Date: 29th April 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1935	3	182500 227340
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	D7NW (NE)	0	2	184523 226521
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	D4NW (SE)	0	2	185309 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	D7NE (E)	0	2	185000 226521

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: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	D3NW (S)	0	2	184523 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	D3NE (SE)	0	2	185000 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(S)	0	2	184523 225000
	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: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(S)	0	2	185000 225000

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: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SE)	0	2	185458 225000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(S)	0	2	184403 224912
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SE)	0	2	185421 225000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	D12SW (NE)	0	2	185204 227000

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, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SE)	0	2	185705 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SE)	0	2	185426 225003
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	D7NE (E)	0	2	185000 226521
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	D7NW (NE)	0	2	184523 226521
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	(S)	0	2	185000 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	(S)	0	2	184523 225000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	D12SW (NE)	0	2	185154 227040
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(SE)	0	2	185426 225003
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(SE)	0	2	185421 225000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(S)	0	2	184403 224912
	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	D11NW (N)	0	2	184510 227290
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NE (E)	0	4	185701 226540
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 399.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D4NW (SE)	0	4	185266 226026
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 219.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8SE (E)	0	4	185601 226361
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8SE (E)	2	4	185542 226294
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 172.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NE (E)	4	4	185648 226640
9	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 210.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D8NE (E)	8	4	185560 226567
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 80.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D8SE (E)	15	4	185469 226326
11	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 395.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D4NW (SE)	28	4	185224 226083
12	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D8SE (E)	94	4	185460 226330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 403.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D2SE (S)	98	4	184251 225502
14	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D8SE (E)	103	4	185446 226337
15	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 318.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8SE (E)	119	4	185421 226479
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NE (E)	137	4	185660 226680
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D8NE (E)	144	4	185558 226575
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D8NE (E)	148	4	185555 226591
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NE (E)	150	4	185658 226683
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D8NE (E)	153	4	185626 226722
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 53.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NE (E)	153	4	185626 226722

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**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: St Davids Head and St Brides North Primacy: 1	D8NE (E)	156	4	185536 226688
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 220.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11SW (N)	163	4	184653 226844
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NE (E)	200	4	185608 226741
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NE (E)	225	4	185606 226740
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 160.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D12SE (E)	225	4	185501 226861
27	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 85.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NE (E)	233	4	185536 226700
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NE (E)	233	4	185467 226797
29	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D2NW (SW)	302	4	183997 226094
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 455.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D2NW (SW)	307	4	183991 226087

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 370.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11SW (N)	310	4	184615 226989
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11SW (N)	310	4	184615 226989
33	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 20.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11SW (N)	340	4	184657 227023
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NW (E)	347	4	185226 226787
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NE (E)	349	4	185467 226797
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NW (E)	367	4	185243 226801
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 260.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D8NW (E)	368	4	185243 226804
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D12SE (E)	372	4	185446 226821
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D12SE (E)	372	4	185482 226836

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 349.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D2NW (SW)	376	4	183922 226025
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 147.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D12SE (NE)	382	4	185430 226989
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D2SE (S)	403	4	184229 225507
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D2SE (S)	405	4	184164 225535
44	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 10.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11SW (N)	411	4	184399 227063
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11SW (N)	421	4	184399 227074
46	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 8.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11SW (N)	427	4	184399 227080
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11SW (N)	435	4	184400 227088
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D12SE (NE)	439	4	185454 226933

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D2SE (S)	440	4	184164 225535
50	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 10.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D2SE (S)	447	4	184129 225565
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1002.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D2SE (S)	448	4	184146 225541
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D2SE (SW)	450	4	184121 225569
53	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 129.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D2SE (SW)	455	4	184121 225569
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11SW (N)	457	4	184358 227104
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 95.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D11SW (N)	487	4	184404 227141
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 131.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11SW (N)	487	4	184404 227141
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10SE (NW)	489	4	184164 227109

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	**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: St Davids Head and St Brides North Primacy: 1	D12SE (NE)	523	4	185431 226984
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10SE (NW)	524	4	184175 227149
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D12SE (NE)	528	4	185428 226989
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 349.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D12SE (NE)	529	4	185375 227029
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NE (N)	532	4	184336 227176
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 314.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10SE (NW)	532	4	184147 227149
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 237.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NE (N)	536	4	184329 227180
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NE (N)	536	4	184334 227181
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 239.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D12NW (NE)	540	4	185067 227216

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11NW (N)	562	4	184365 227211
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11NW (N)	580	4	184384 227232
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 170.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D10NE (N)	597	4	184317 227240
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NE (N)	597	4	184317 227240
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 235.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11NE (NE)	611	4	185007 227318
72	**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: St Davids Head and St Brides North Primacy: 1	D11NW (N)	612	4	184382 227264
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11NW (N)	613	4	184388 227266
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 730.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11NW (N)	614	4	184589 227306
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 146.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D11NW (N)	618	4	184391 227271

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 259.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D1SE (SW)	681	4	183668 225792
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 304.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D1NE (SW)	700	4	183606 225891
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NE (N)	747	4	184232 227384
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 171.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NE (N)	757	4	184345 227406
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NE (N)	763	4	184249 227402
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 96.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NE (N)	765	4	184248 227404
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NW (NW)	838	4	183979 227413
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 156.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Solva Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NE (N)	845	4	184188 227480
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Solva Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NE (N)	853	4	184199 227488

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NW (NW)	857	4	183959 227425
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NW (NW)	861	4	183960 227430
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 69.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Solva Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NE (NW)	862	4	184059 227467
88	**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: St Davids Head and St Brides North Primacy: 1	D10NE (NW)	862	4	184059 227467
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 287.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Solva Catchment Name: St Davids Head and St Brides North Primacy: 1	D14SE (N)	866	4	184218 227503
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NW (NW)	870	4	183930 227426
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 275.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D10NW (NW)	877	4	183989 227459
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NW (NW)	877	4	183989 227459
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 883.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Solva Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NW (NW)	881	4	183990 227464

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	**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: St Davids Head and St Brides North Primacy: 1	D1SE (SW)	918	4	183469 225657
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D1SE (SW)	919	4	183469 225655
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 157.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D1SE (SW)	922	4	183471 225646
97	**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: St Davids Head and St Brides North Primacy: 1	D1SE (SW)	923	4	183461 225663
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 149.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D1SE (SW)	929	4	183450 225671
99	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 25.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NW (NW)	932	4	183722 227369
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 200.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D1SE (SW)	936	4	183407 225556
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D10NW (NW)	952	4	183697 227375
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D16SW (NE)	965	4	185027 227659

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 123.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	D1SE (SW)	974	4	183400 225667
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 415.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Solva Catchment Name: St Davids Head and St Brides North Primacy: 1	D15SE (N)	978	4	184919 227683
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 576.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Solva Catchment Name: St Davids Head and St Brides North Primacy: 1	D15SE (N)	978	4	184993 227677
106	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 26.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D10NW (NW)	987	4	183715 227434
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 2	D10NW (NW)	999	4	183689 227429

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Pembrokeshire County Council - Has supplied landfill data		0	5	184523 226521

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Llanvirn Rocks (Undifferentiated)	D7NW (NE)	0	1	184523 226521
	BGS 1:625,000 Solid Geology Description: Unnamed Extrusive Rocks, Ordovician	D7NE (NE)	0	1	184762 226719
	BGS 1:625,000 Solid Geology Description: Upper Cambrian, Including Tremadoc	D3NW (S)	0	1	184557 226101
108	**BGS Recorded Mineral Sites** Site Name: Tre-Gynnydd Location: Llandeloy, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89674 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	D4NE (SE)	0	1	185399 225811
109	**BGS Recorded Mineral Sites** Site Name: Croes-Wen Location: Llandeloy, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89675 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	D4SE (SE)	0	1	185626 225543
110	**BGS Recorded Mineral Sites** Site Name: Tre-Eva Location: Treffynnon, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89671 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cromerian - Ipswichian Geology: Till, Mid Pleistocene Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	D12NW (NE)	518	1	185051 227196
111	**BGS Recorded Mineral Sites** Site Name: Hendre House Location: Treffynnon, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89673 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	D10SW (NW)	578	1	183933 227084
112	**BGS Recorded Mineral Sites** Site Name: Tre-Eva Location: Treffynnon, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89672 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	D11NE (NE)	657	1	184891 227361
	Coal Mining Affected Areas In an area that might not be affected by coal mining				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	D7NE (E)	0	1	185000 226521
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	D7NW (NE)	0	1	184523 226521
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D7NW (NE)	0	1	184523 226521
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D7NE (E)	0	1	185000 226521
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D7NW (NE)	0	1	184523 226521
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D7NE (E)	0	1	185000 226521
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D7NW (NE)	0	1	184523 226521
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D7NE (E)	0	1	185000 226521
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D7NW (NE)	0	1	184523 226521
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D7NE (E)	0	1	185000 226521
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D4SW (SE)	0	1	185259 225489
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D12SW (NE)	0	1	185154 227040
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D7NE (E)	0	1	185000 226521
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D7NW (NE)	0	1	184523 226521
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D11NE (NE)	49	1	185000 227324
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (SW)	129	1	184000 226102
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D7NW (NE)	0	1	184523 226521
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D7NE (E)	0	1	185000 226521
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D12SW (NE)	0	1	185154 227040
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D11NE (NE)	49	1	185000 227324
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (SW)	129	1	184000 226102

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	D7NE (NE)	0	1	184750 226650
	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	D7NW (NE)	0	1	184523 226521
	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	D7NE (E)	0	1	185000 226521
	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	D7SW (S)	0	1	184523 226150
	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	D7SE (SE)	0	1	185000 226200
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D7NE (NE)	0	1	184750 226650
	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	D7NW (NE)	0	1	184523 226521
	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	D7NE (E)	0	1	185000 226521
	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	D7SW (S)	0	1	184523 226150
	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	D7SE (SE)	0	1	185000 226200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	**Contemporary Trade Directory Entries** Name: Biopharmaspec Location: Hendre House, Llandeloy, Haverfordwest, Dyfed, SA62 6LW Classification: Laboratories **Status: Inactive** Positional Accuracy: Automatically positioned to the address	D10NW (NW)	795	-	183735 227196

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	**Ancient Woodland** Name: Not Supplied Reference: 4751 Area(m²): 6110.46 Type: Restored Ancient Woodland Site	(S)	0	2	184682 225357
115	**Environmentally Sensitive Areas** Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 1187932672 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	D7NW (NE)	0	6	184523 226521

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	June 2020	Annually
Pembrokeshire County Council - Public Protection Division	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	October 2022	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	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Local Authority Pollution Prevention and Controls		
Pembrokeshire County Council - Environmental Health Department	November 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Nearest Surface Water Feature		
Ordnance Survey	October 2022	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
Substantiated Pollution Incident Register		
Environment Agency Wales - South West Area	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Abstractions		
Environment Agency - Welsh Region	October 2022	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	Quarterly
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences		
Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas		
Natural Resources Wales	August 2019	Quarterly
Flood Defences		
Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines		
Ordnance Survey	October 2022	Quarterly
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	As notified
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	July 2019	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Natural Resources Wales	October 2021	Quarterly
Environment Agency Wales - South West Area	October 2022	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency Wales - South West Area	July 2021	Quarterly
Natural Resources Wales	July 2022	Quarterly
Local Authority Landfill Coverage		
Pembrokeshire County Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Pembrokeshire County Council - Environmental Health Department	October 2018	
Registered Landfill Sites		
Environment Agency Wales - South West Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - South West Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - South West Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Variable
Pembrokeshire County Council - Planning Department	October 2015	Variable
Planning Hazardous Substance Consents		
Pembrokeshire Coast National Park Authority - Development Control	February 2016	Variable
Pembrokeshire County Council - Planning Department	October 2015	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	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	March 2014	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	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt		
Pembrokeshire Coast National Park Authority - Development Control	July 2022	Quarterly
Pembrokeshire County Council	July 2022	Quarterly
Areas of Unadopted Green Belt		
Pembrokeshire Coast National Park Authority - Development Control	July 2022	Quarterly
Pembrokeshire County Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Pembrokeshire County Council	August 2018	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves		
Natural Resources Wales	February 2022	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	July 2019	Bi-Annually
Ramsar Sites		
Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2018	Bi-Annually

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	

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**Pembrokeshire County Council - Environmental Health Department** Public Protection Division, Pembrokeshire County Council, County Hall, Haverfordwest, Pembrokeshire, SA61 1TP	Telephone: 01437 764551 Fax: 01437 775838 Website: www.pembrokeshire.gov.uk
6	**The National Assembly for Wales - GI Services (Department of Planning & Countryside)** Yr Hen Ysgol Gymraeg, Alexandria Road, Aberystwyth, Ceredigion, SY23 1LD	Telephone: 02920 825111 Website: www.wales.gov.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

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

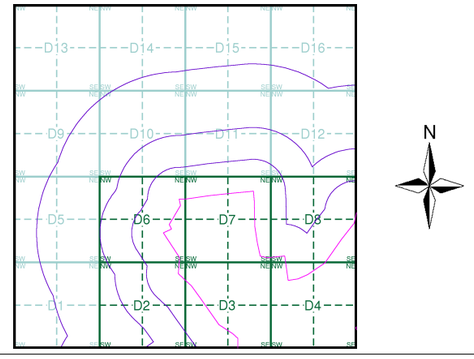
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1888	2
Pembrokeshire	1:10,560	1908	3
Pembrokeshire	1:10,560	1953	4
Ordnance Survey Plan	1:10,000	1964	5
Ordnance Survey Plan	1:10,000	1980	6
10K Raster Mapping	1:10,000	2000	7
Street View	Variable		8

Historical Map - Slice D



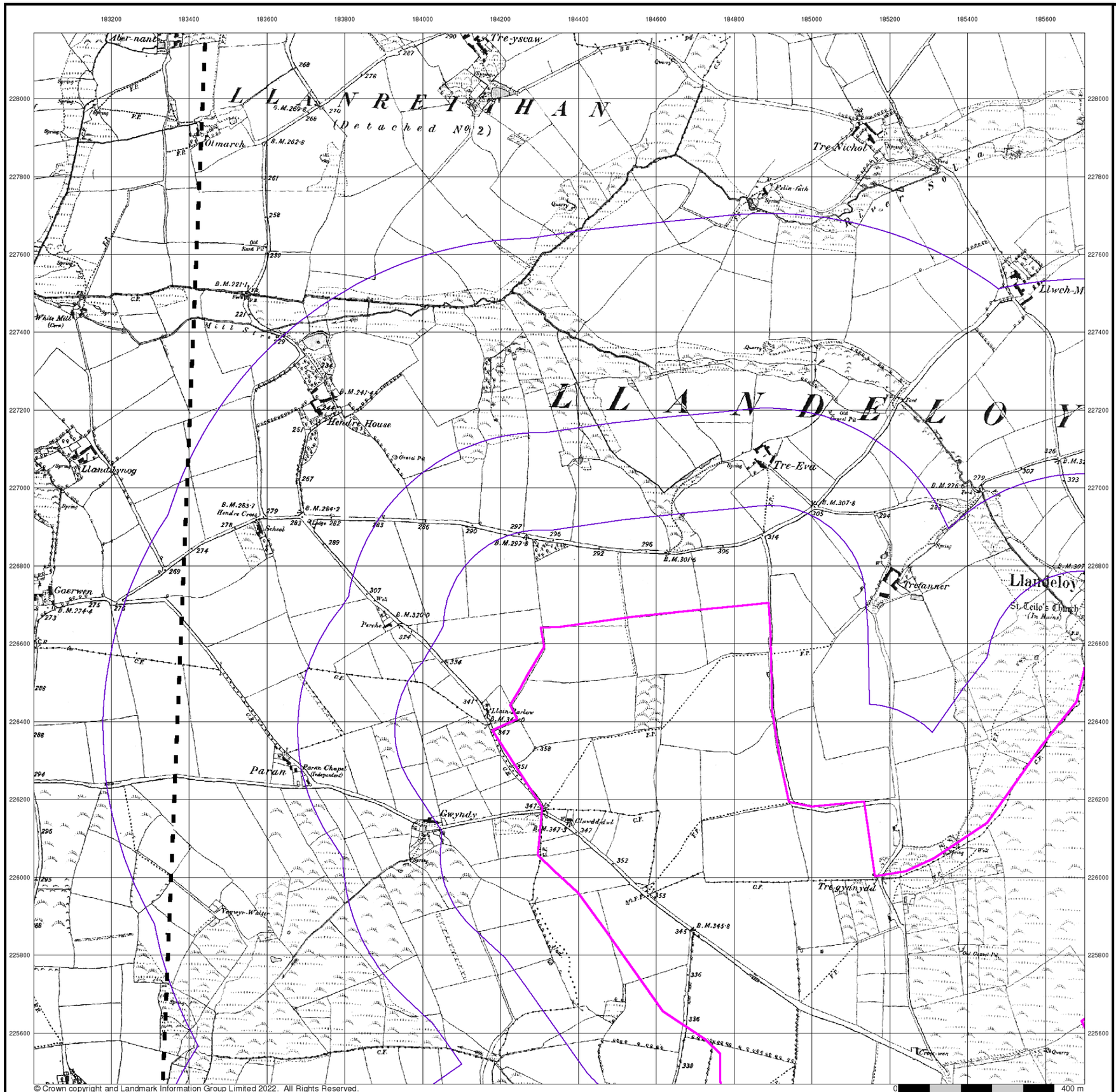
Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 184520, 226520
Slice: D
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site

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Web: www.envirocheck.co.uk



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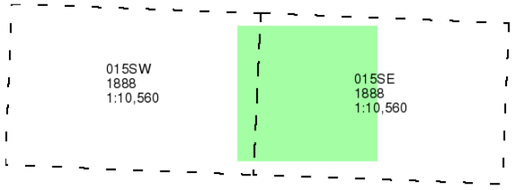
Pembrokeshire

Published 1888

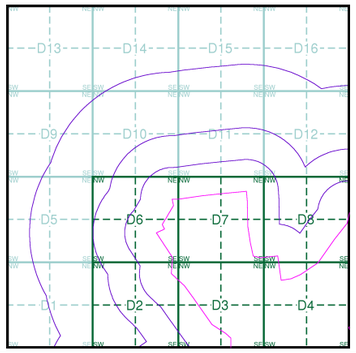
Source map scale - 1:10,560

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 D



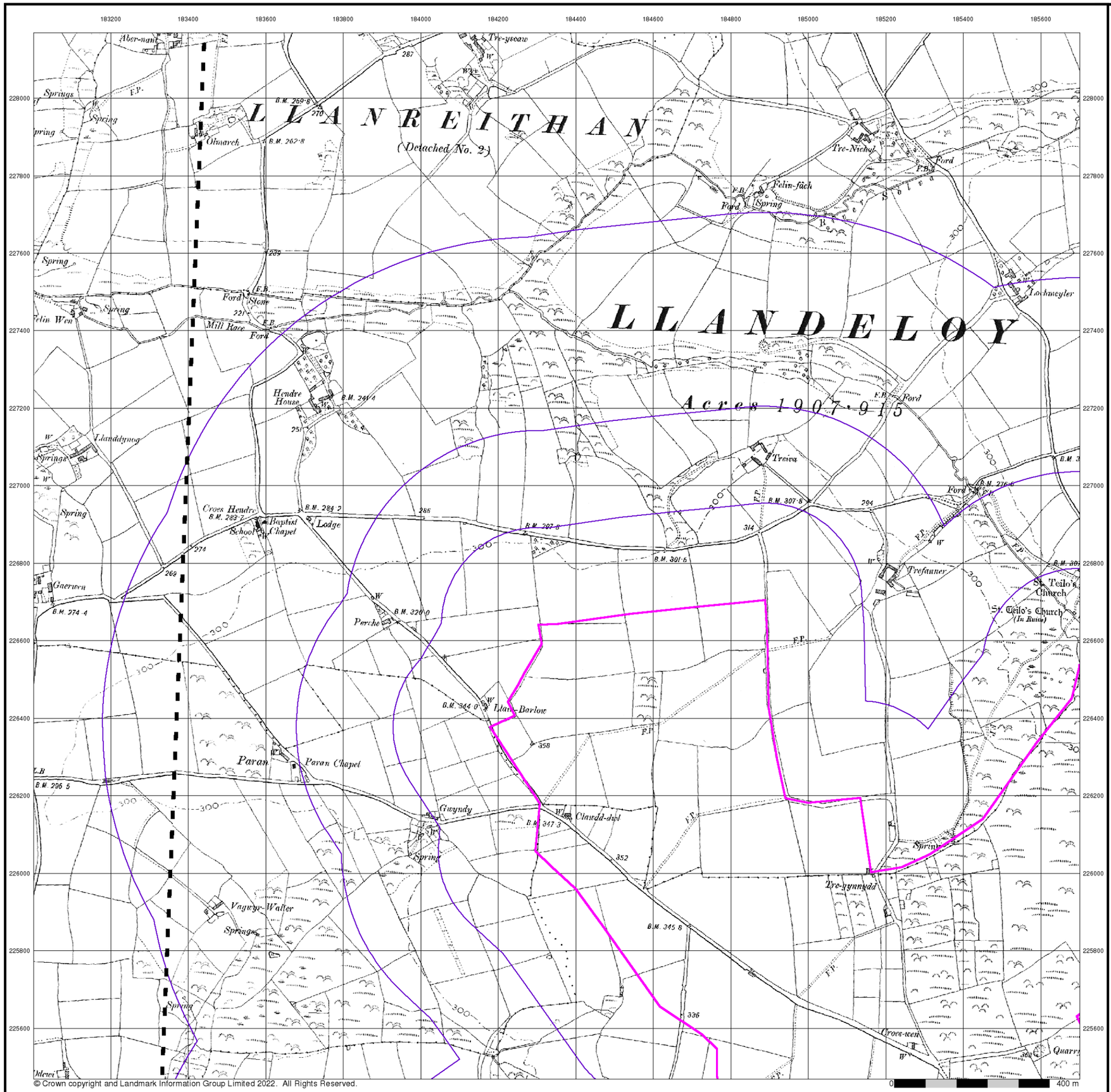
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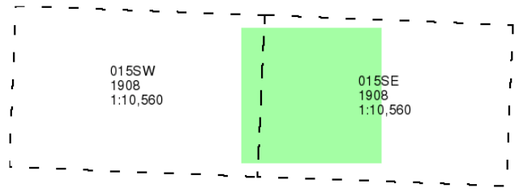
Pembrokeshire

Published 1908

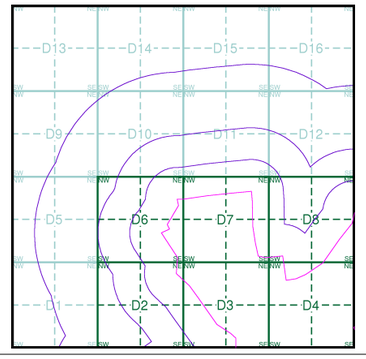
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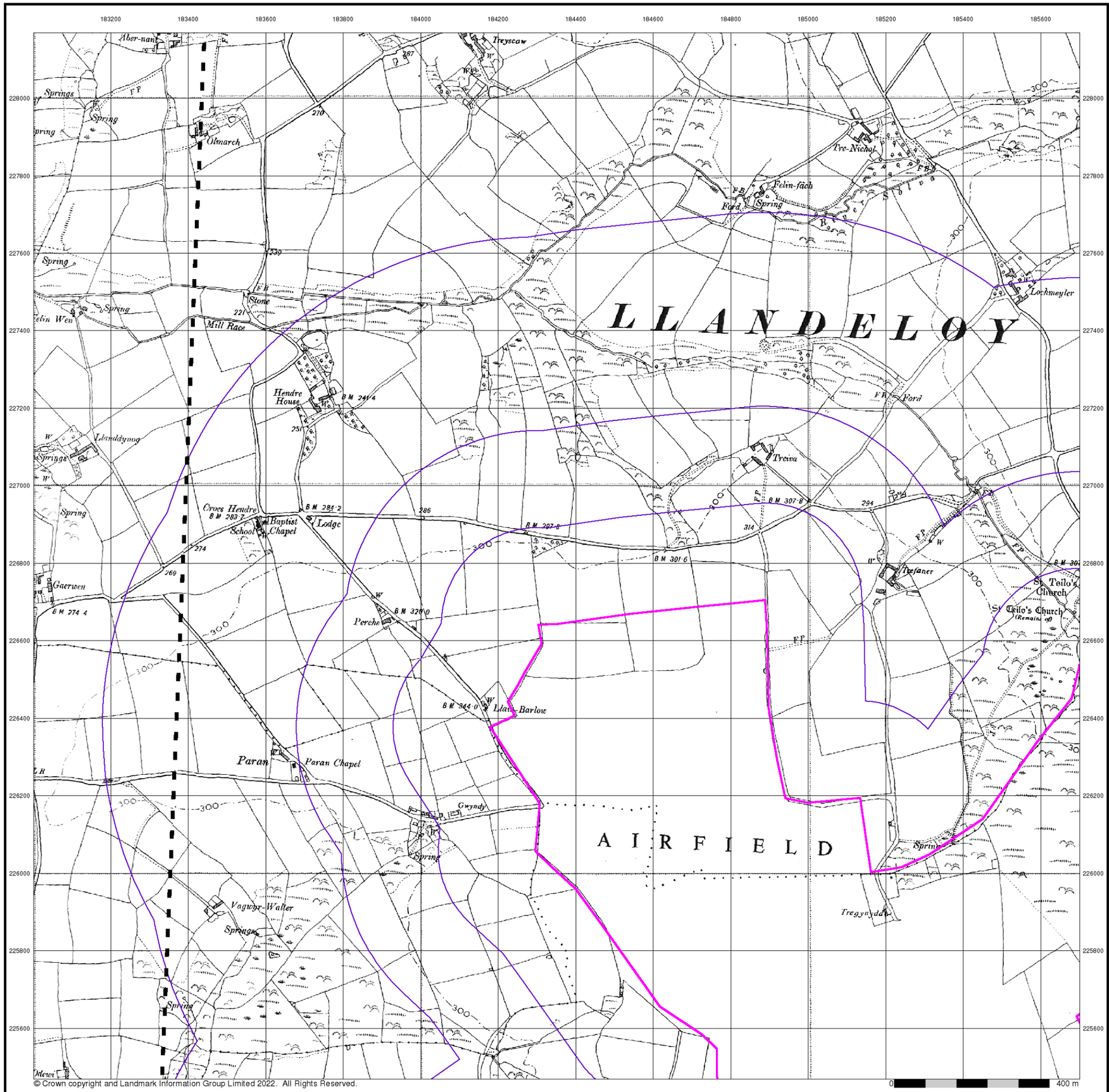
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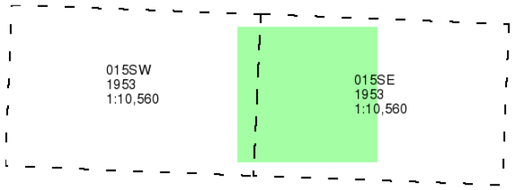
Pembrokeshire

Published 1953

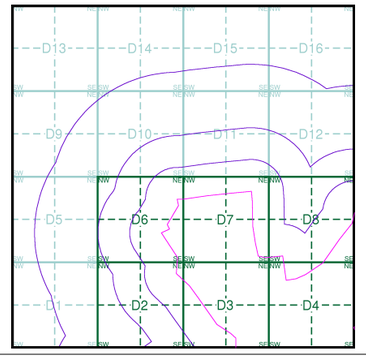
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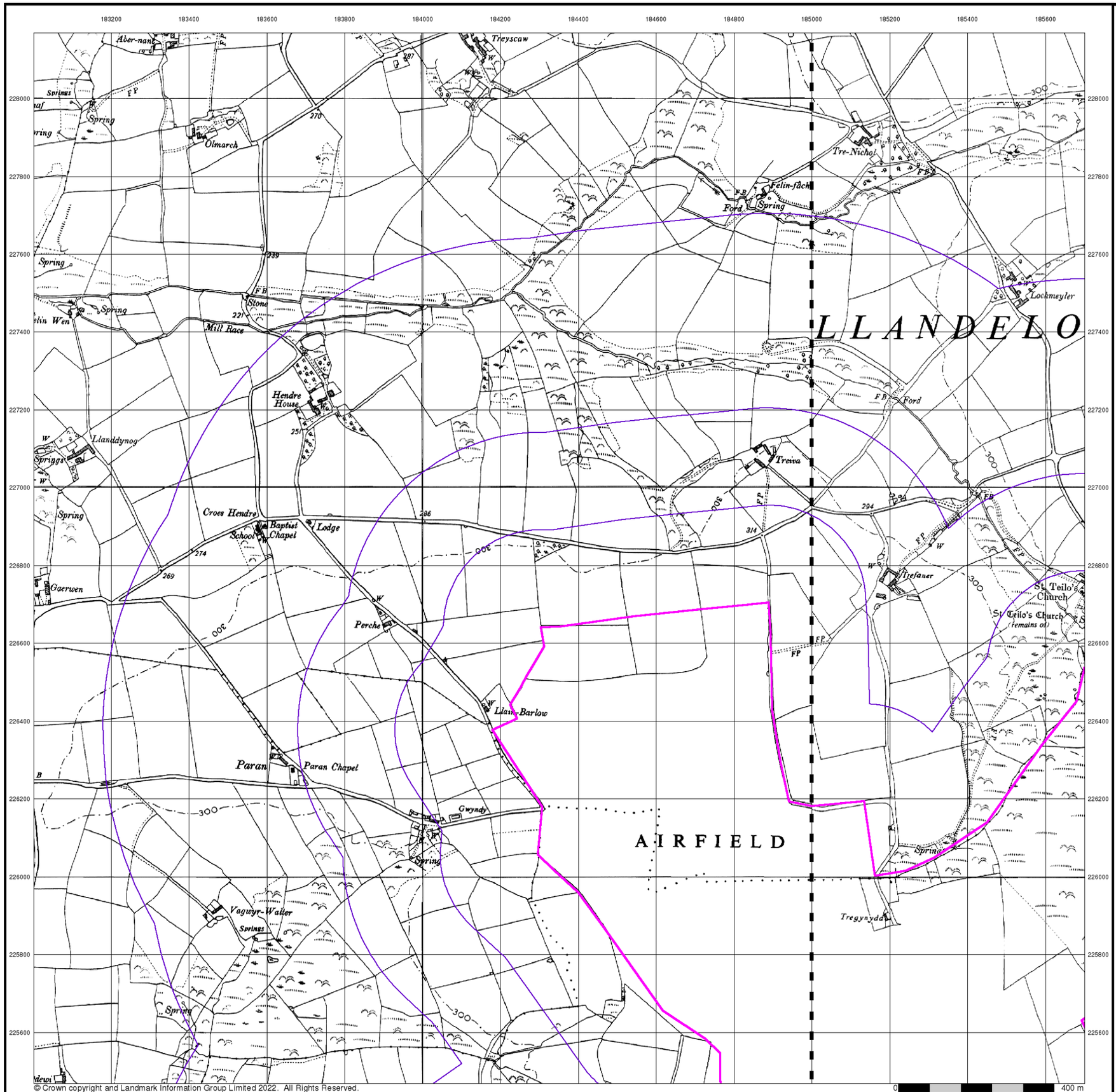
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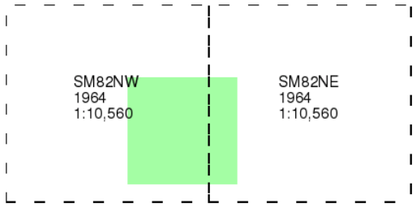
Ordnance Survey Plan

Published 1964

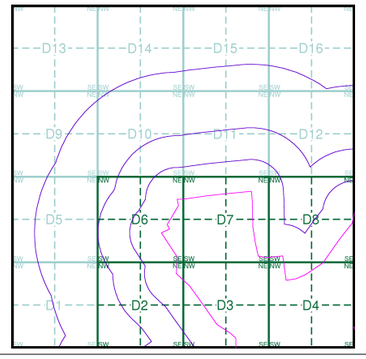
Source map scale - 1:10,000

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



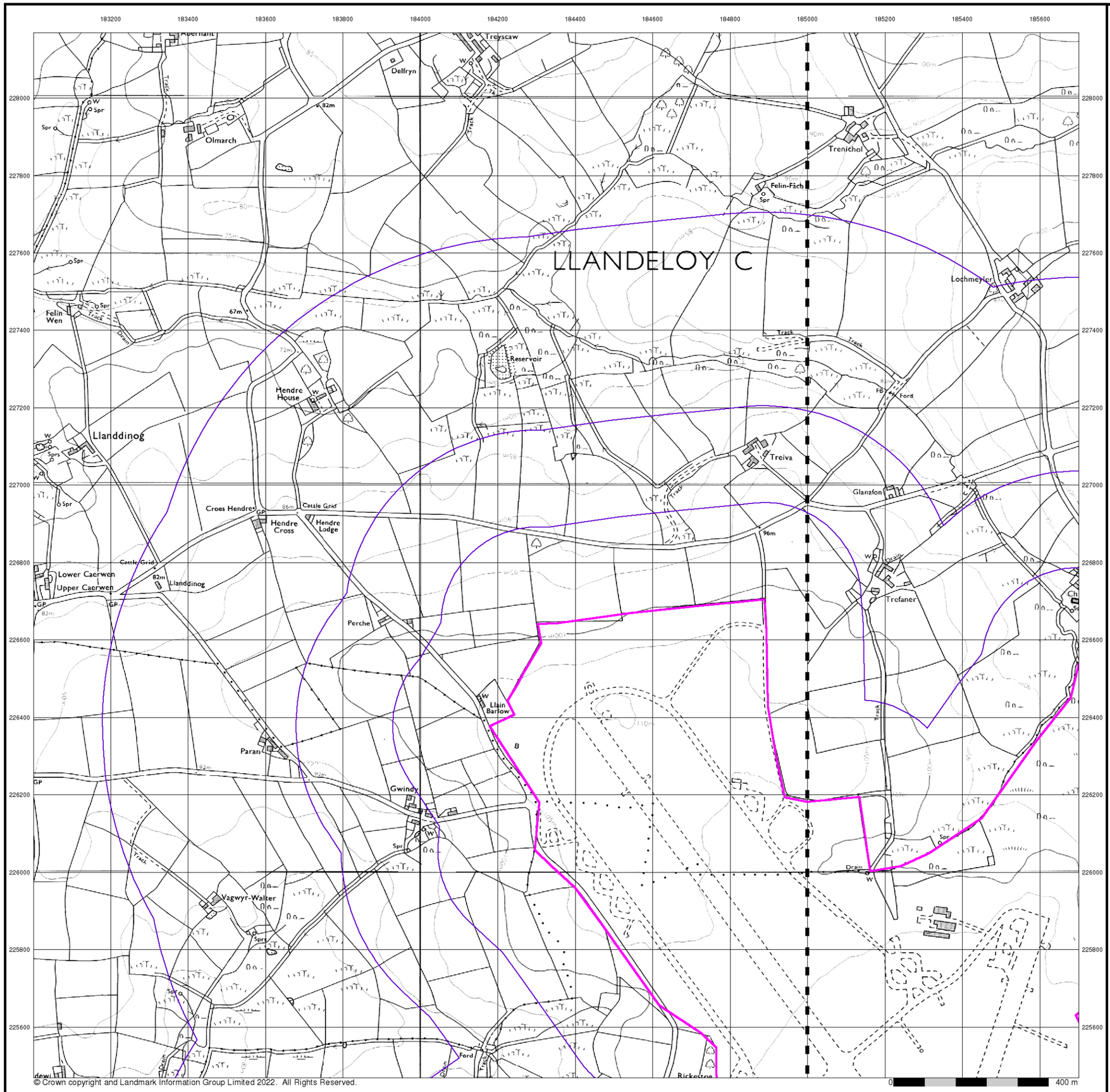
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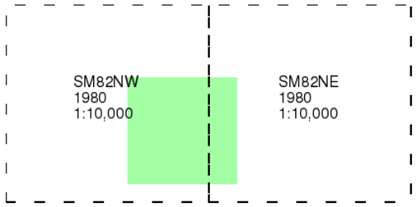
Ordnance Survey Plan

Published 1980

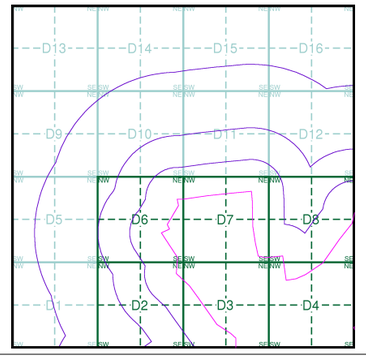
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice D



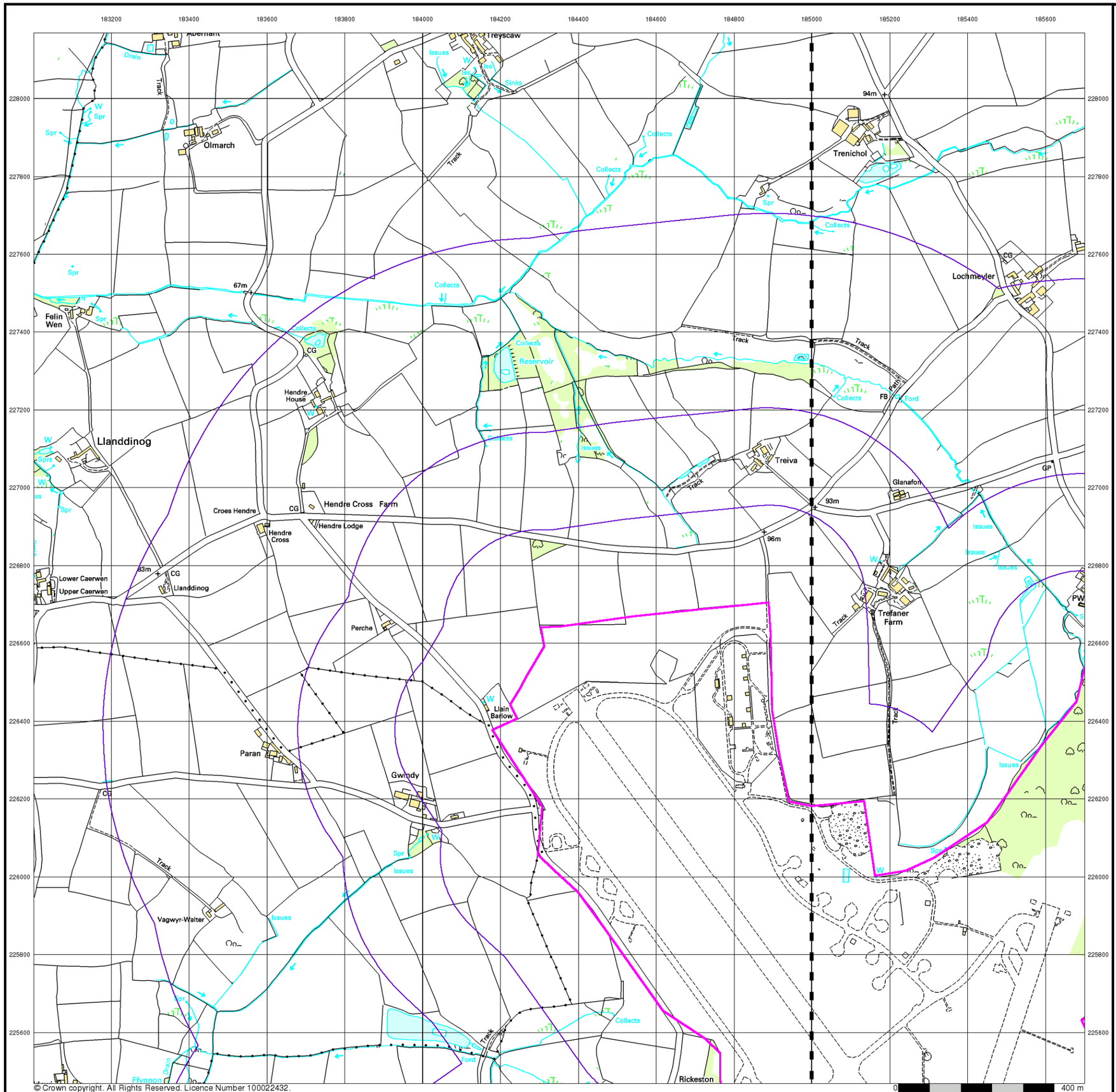
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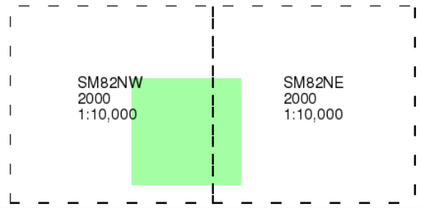
10k Raster Mapping

Published 2000

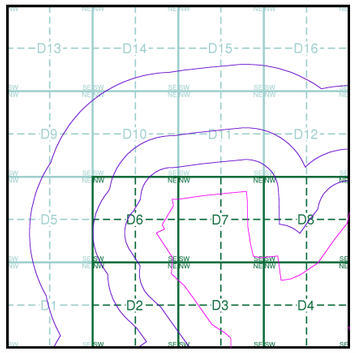
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice D



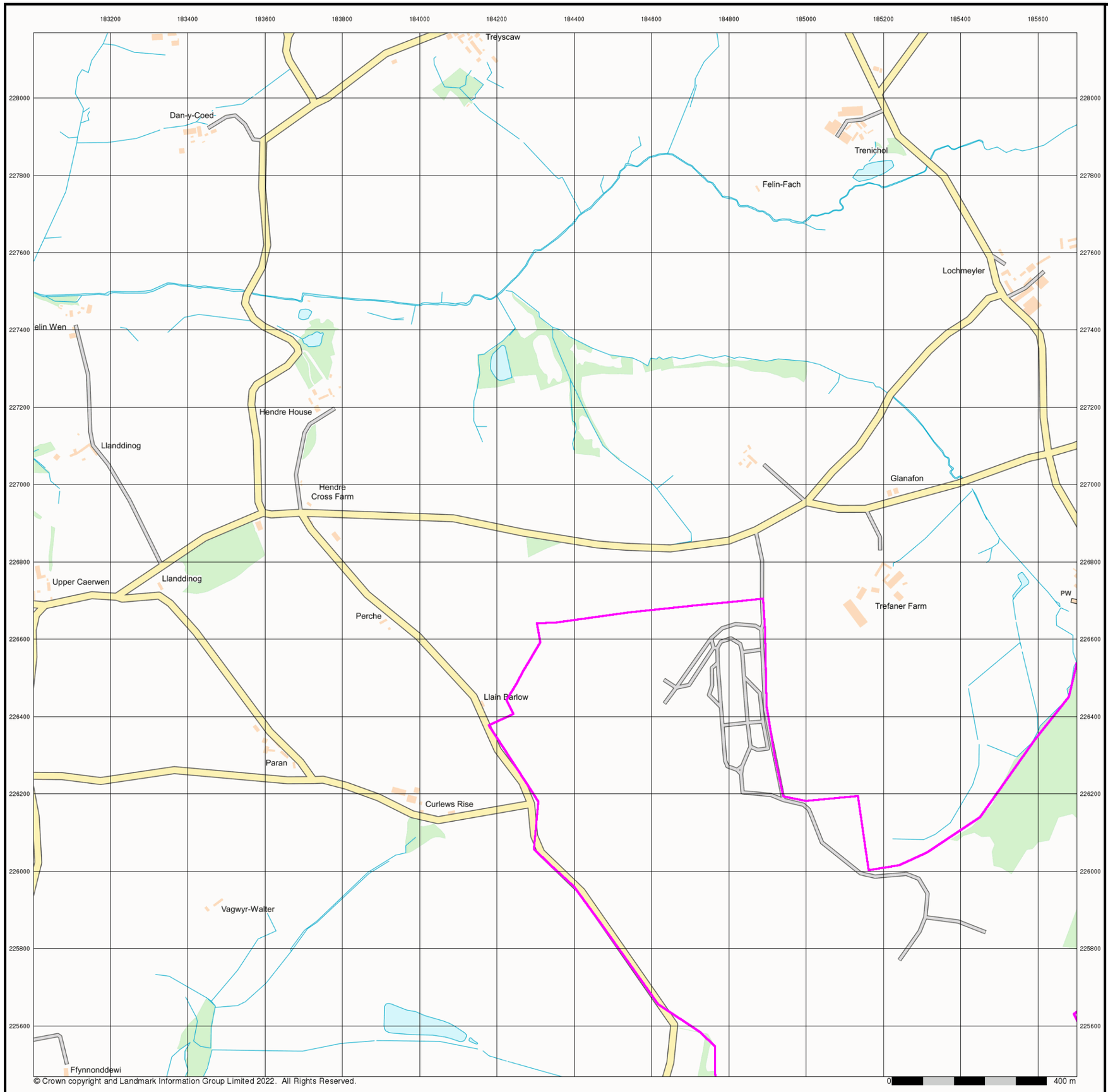
Order Details

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Customer Ref:	65208061
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Slice:	D
Site Area (Ha):	308.46
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Street View

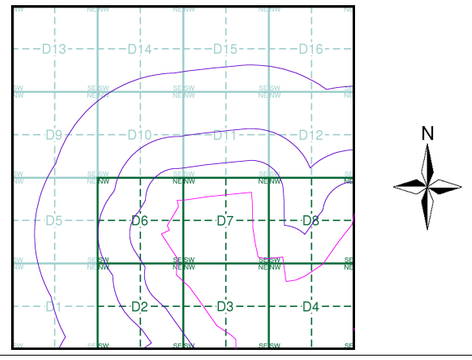
Published 2022

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice D



Order Details

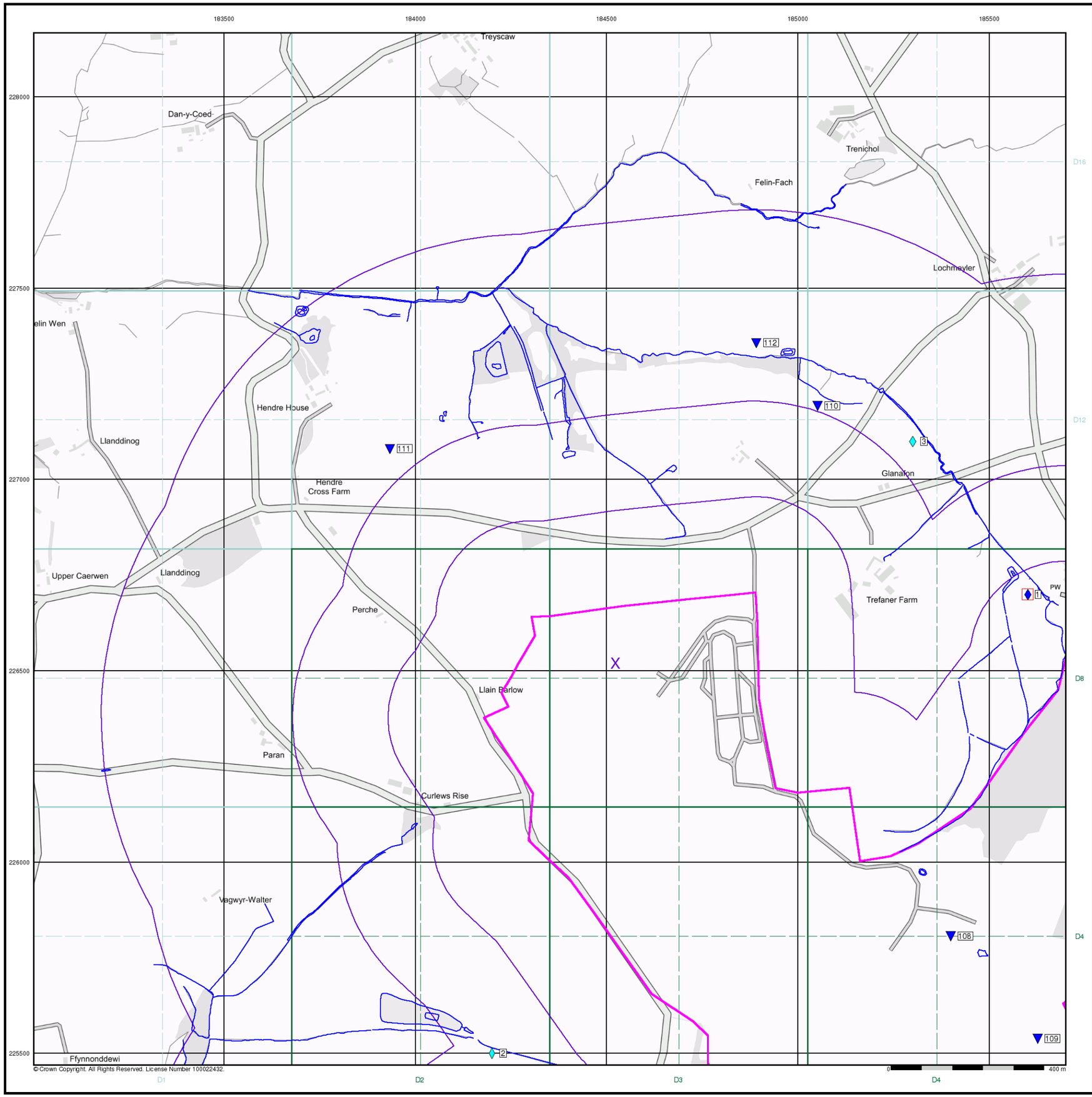
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General

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

Agency and Hydrological

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

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
- 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

Geological

- BGS Recorded Mineral Site

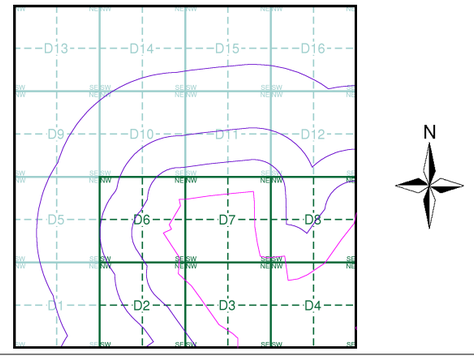
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice D



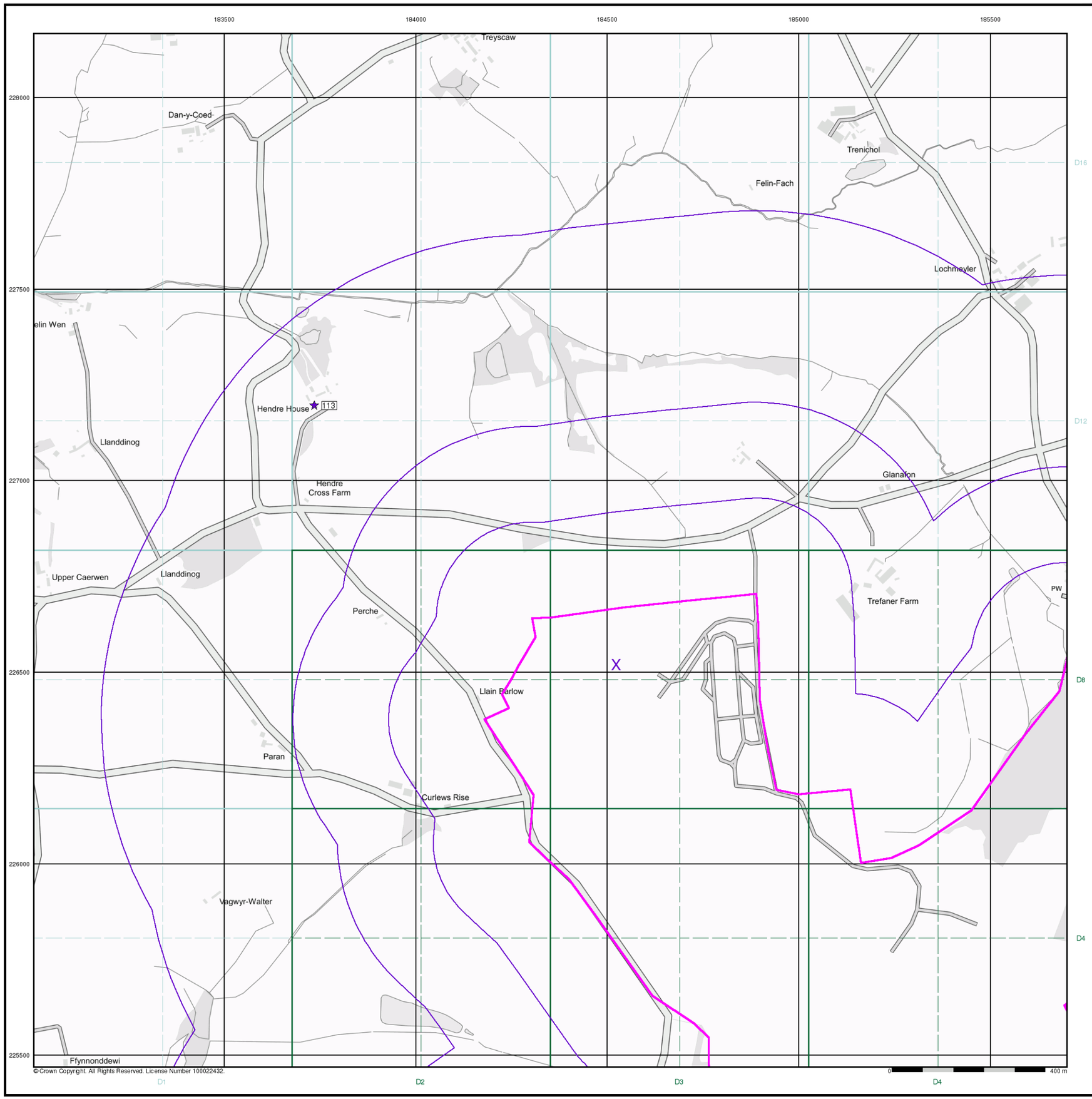
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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



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Industrial Land Use Map

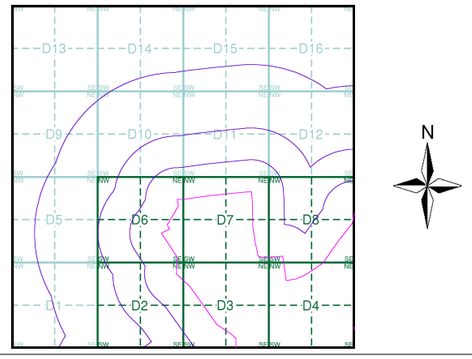
General

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

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry
Gas Pipeline
Underground Electrical Cables

Industrial Land Use Map - Slice D



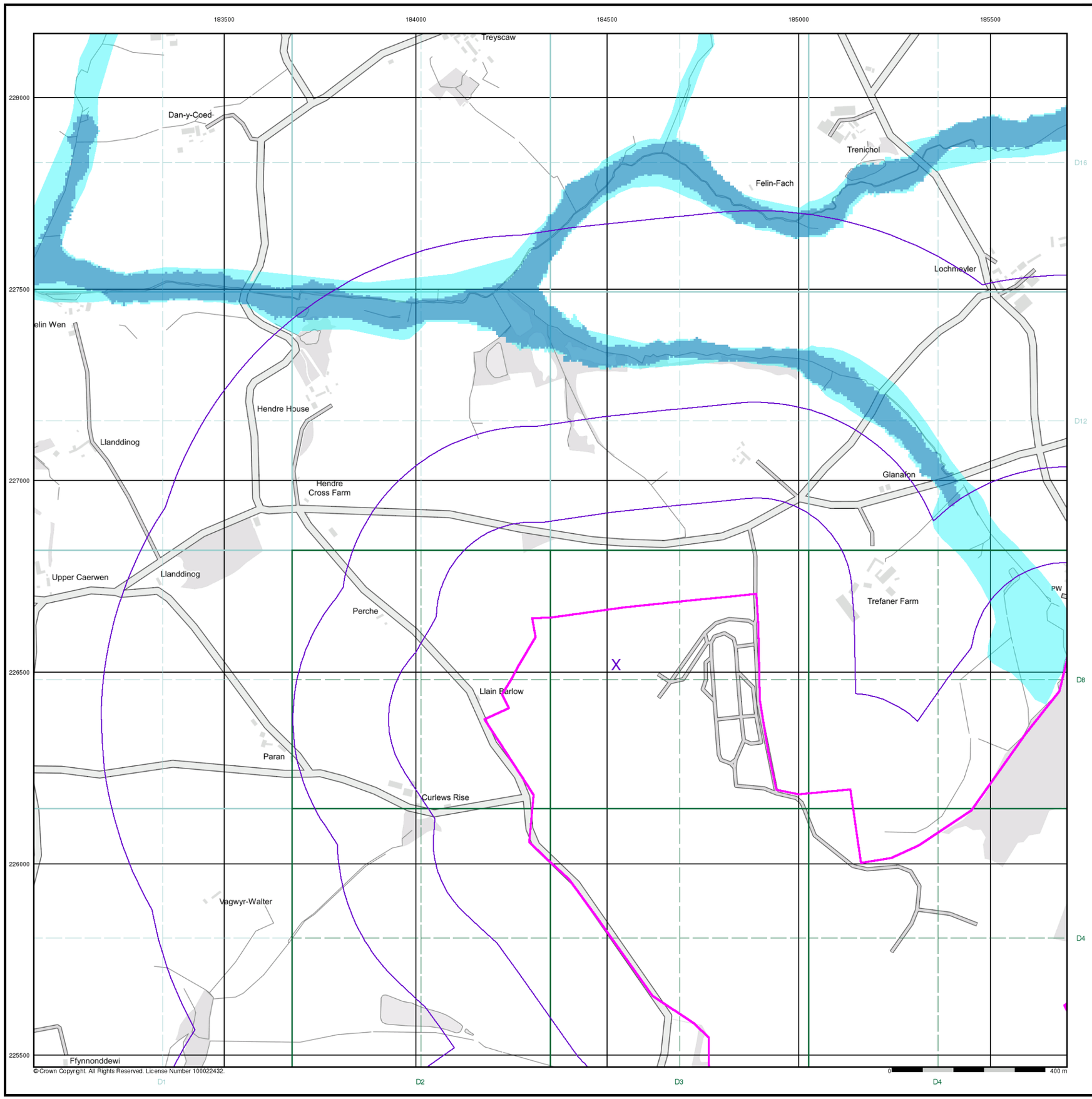
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
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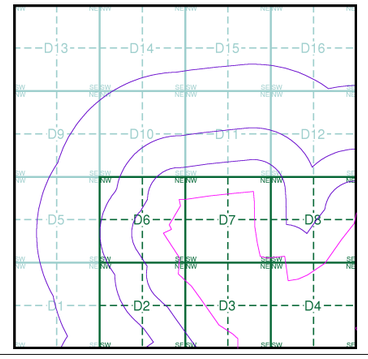
General

- 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



Order Details

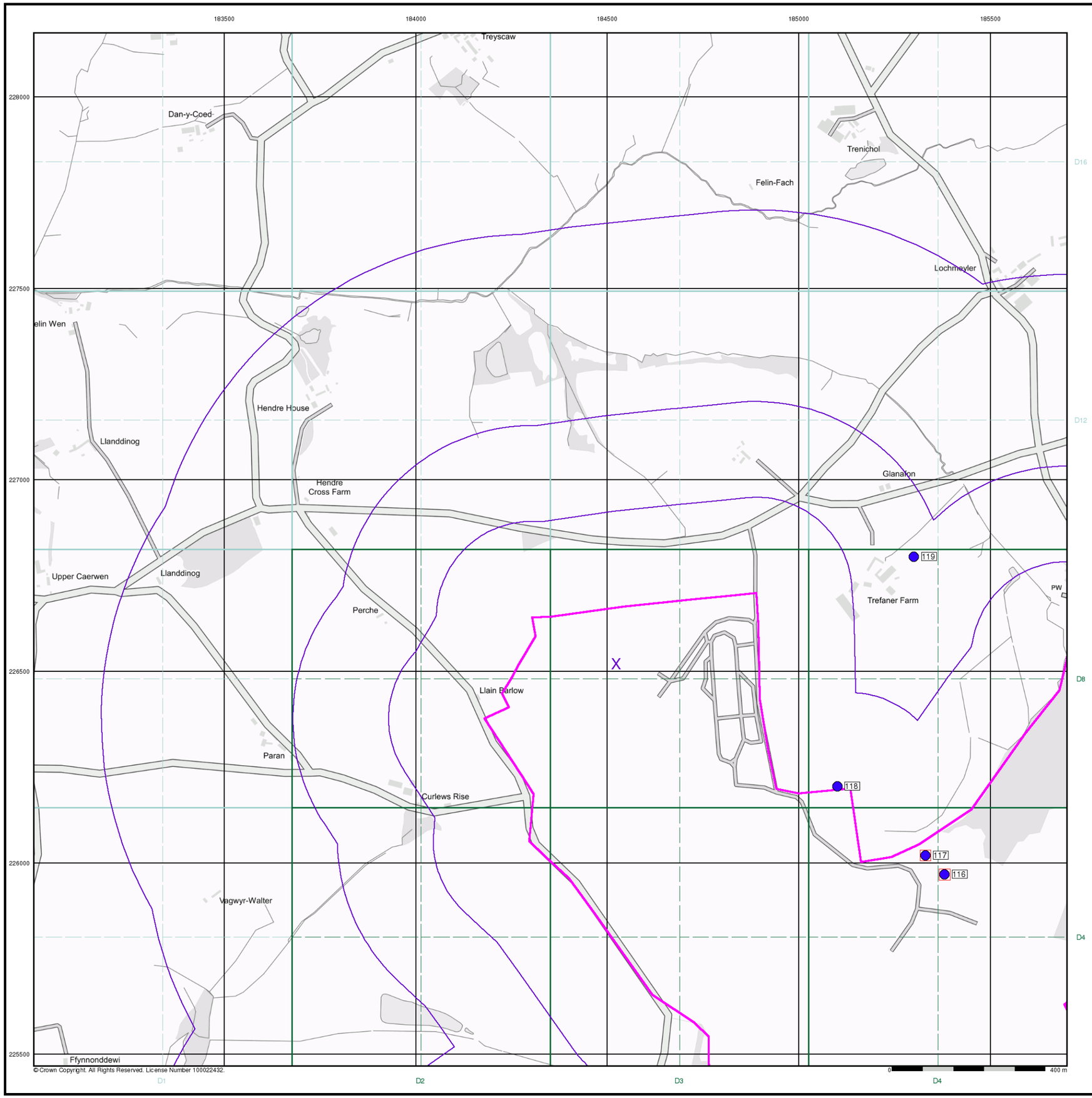
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	1000

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General

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

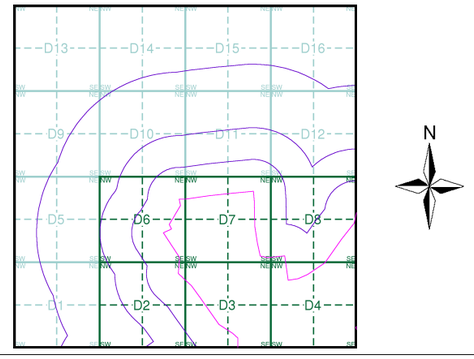
Agency and Hydrological (Boreholes)

- 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 D



Order Details

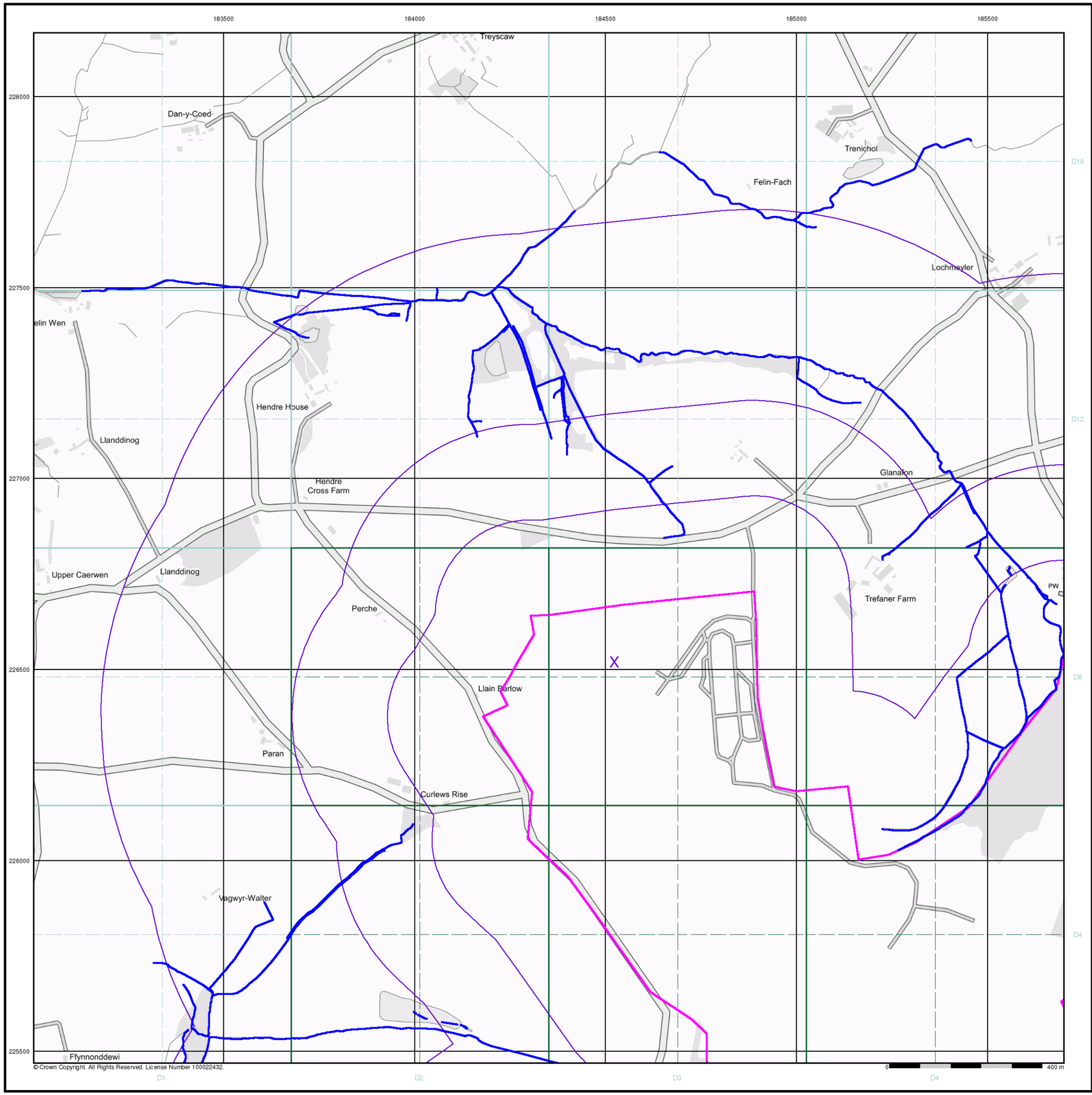
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
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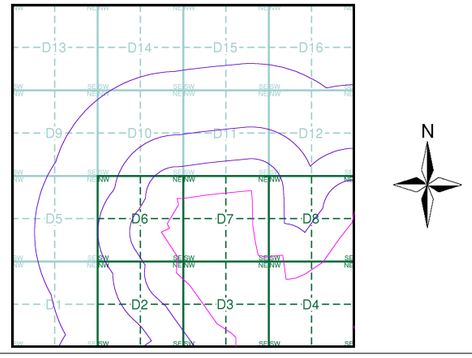
General

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

OS Water Network Data

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

OS Water Network Map - Slice D



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

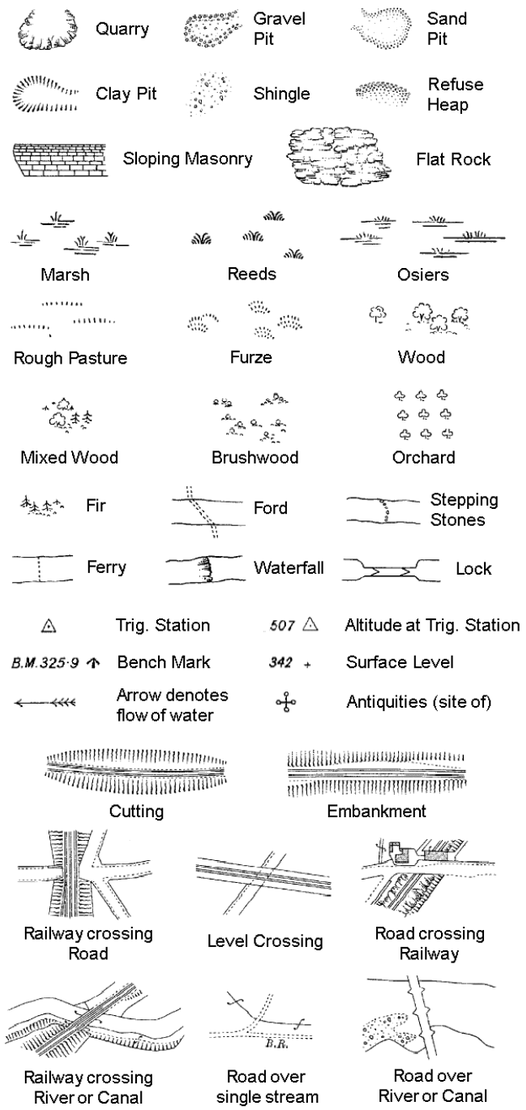
Cawdor site

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Historical Mapping Legends

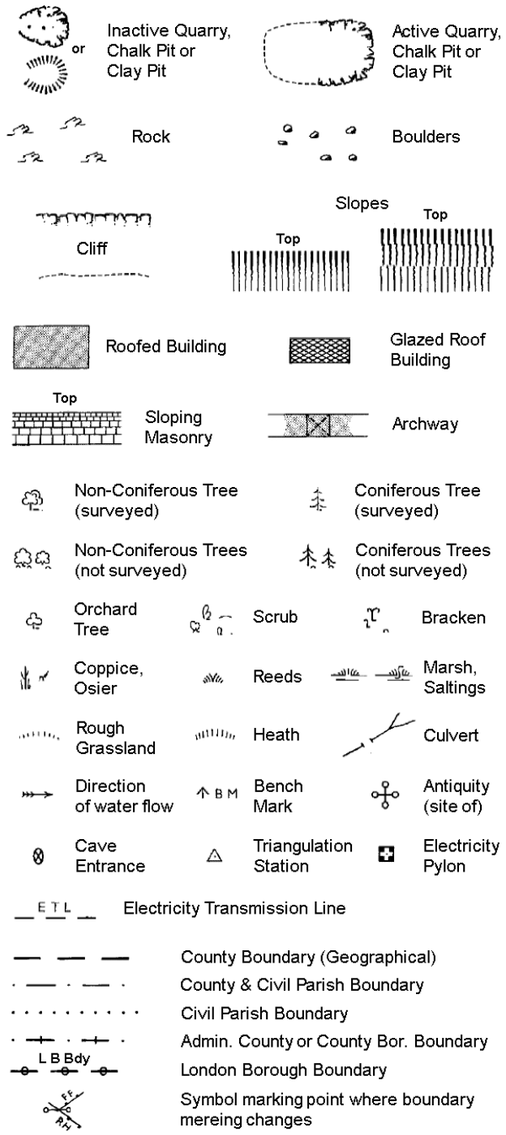
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

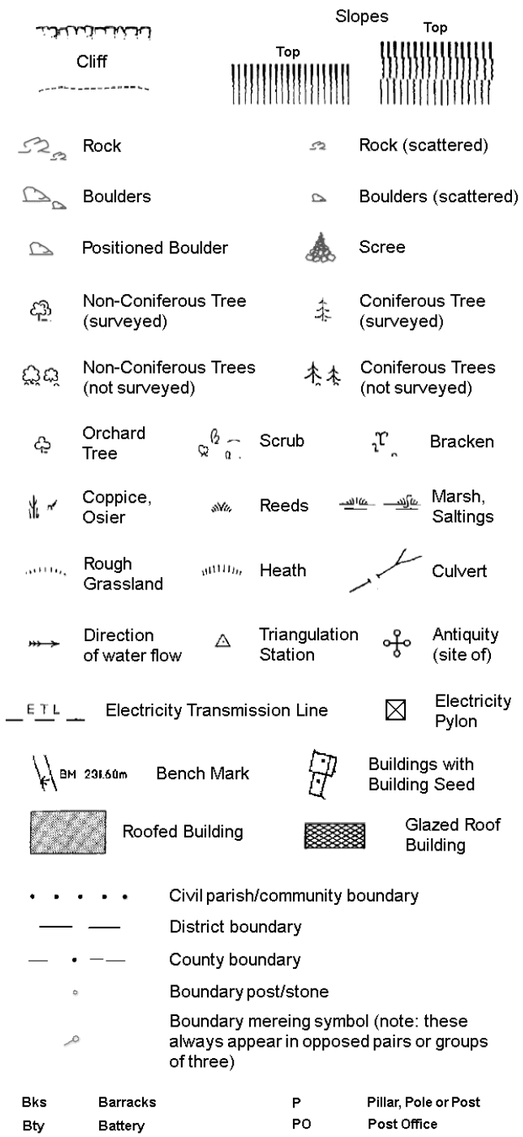
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

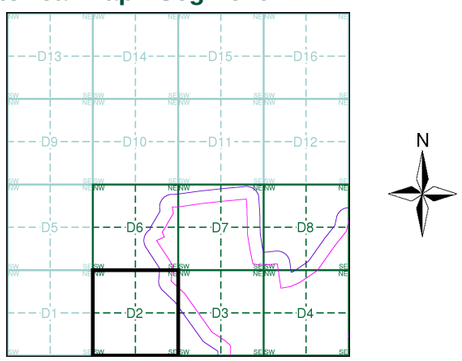
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975 - 1976	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment D2



Order Details

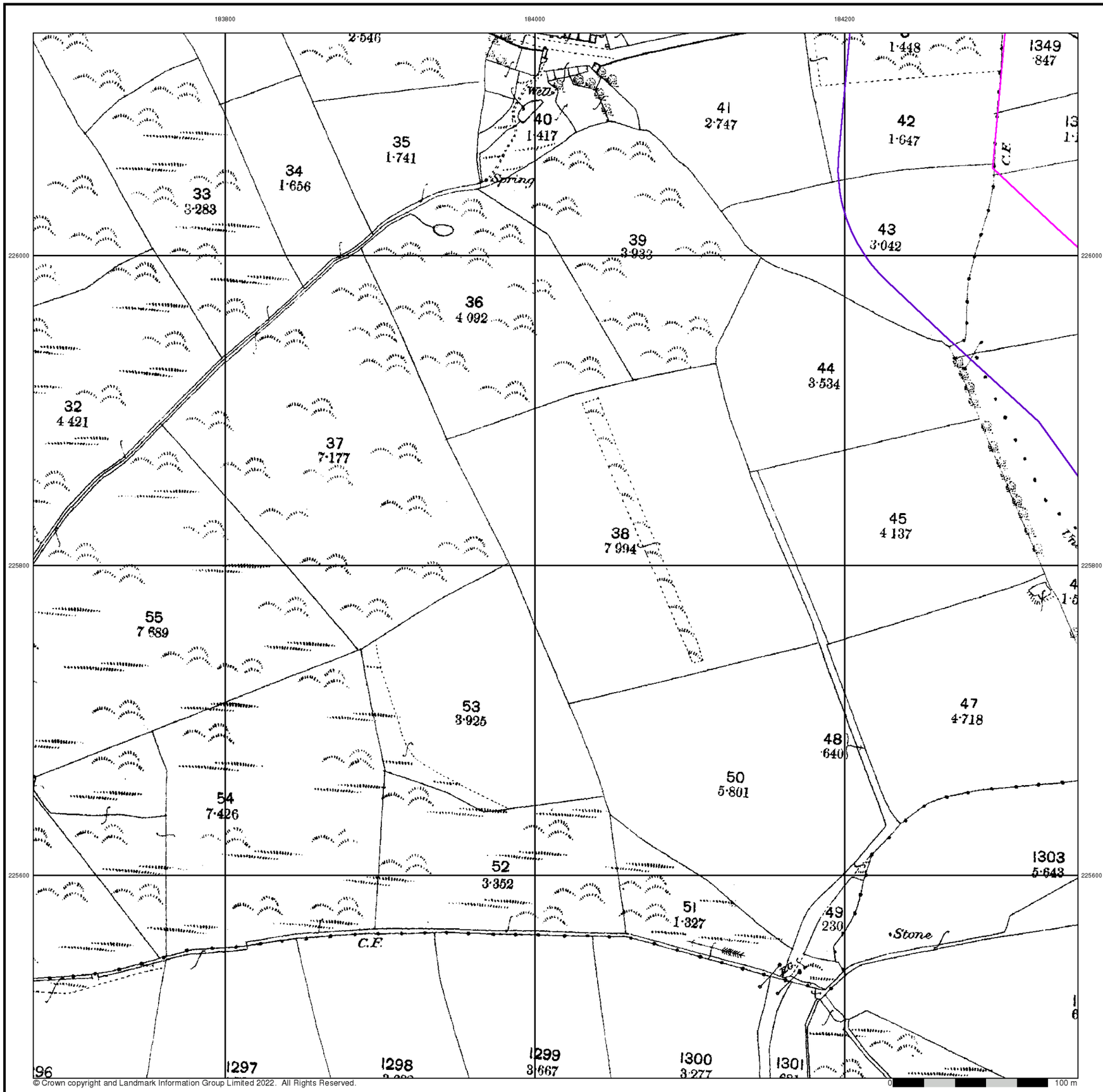
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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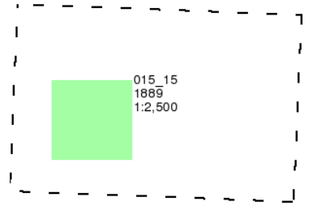
Pembrokeshire

Published 1889

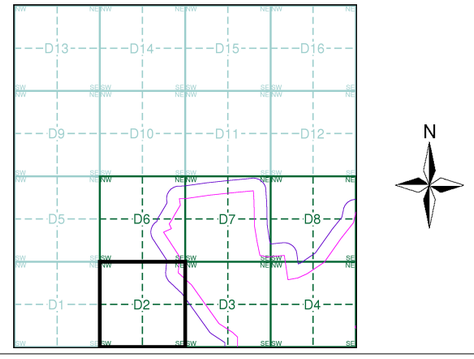
Source map scale - 1:2,500

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 D2



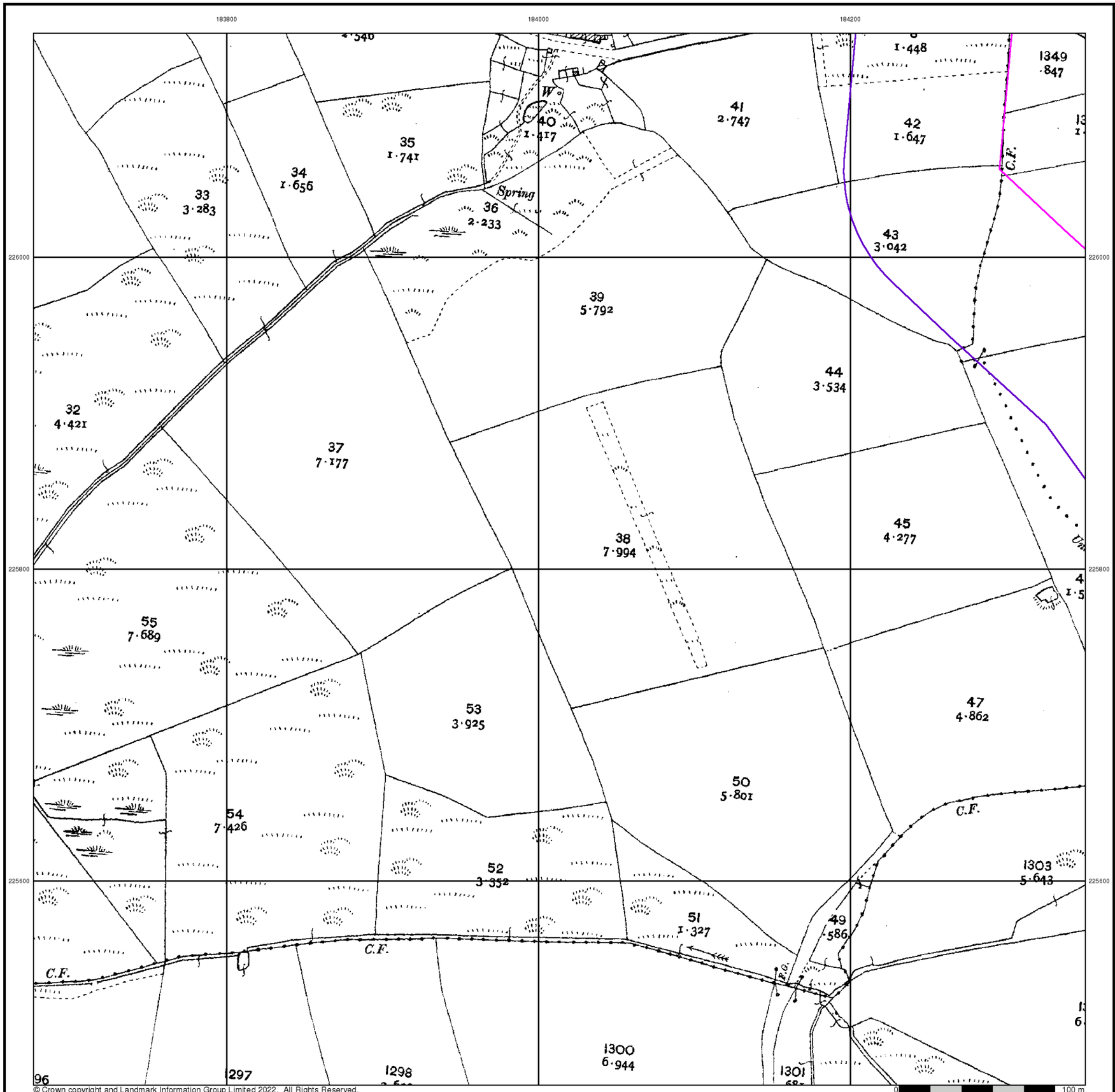
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

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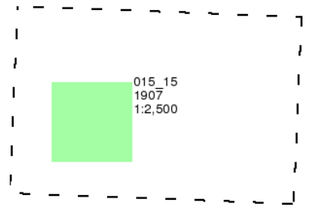
Pembrokeshire

Published 1907

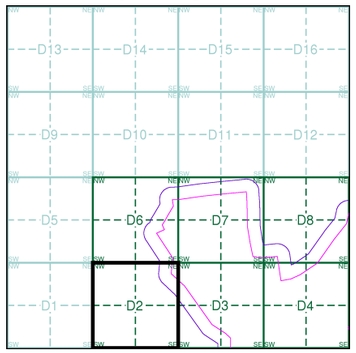
Source map scale - 1:2,500

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 D2



Order Details

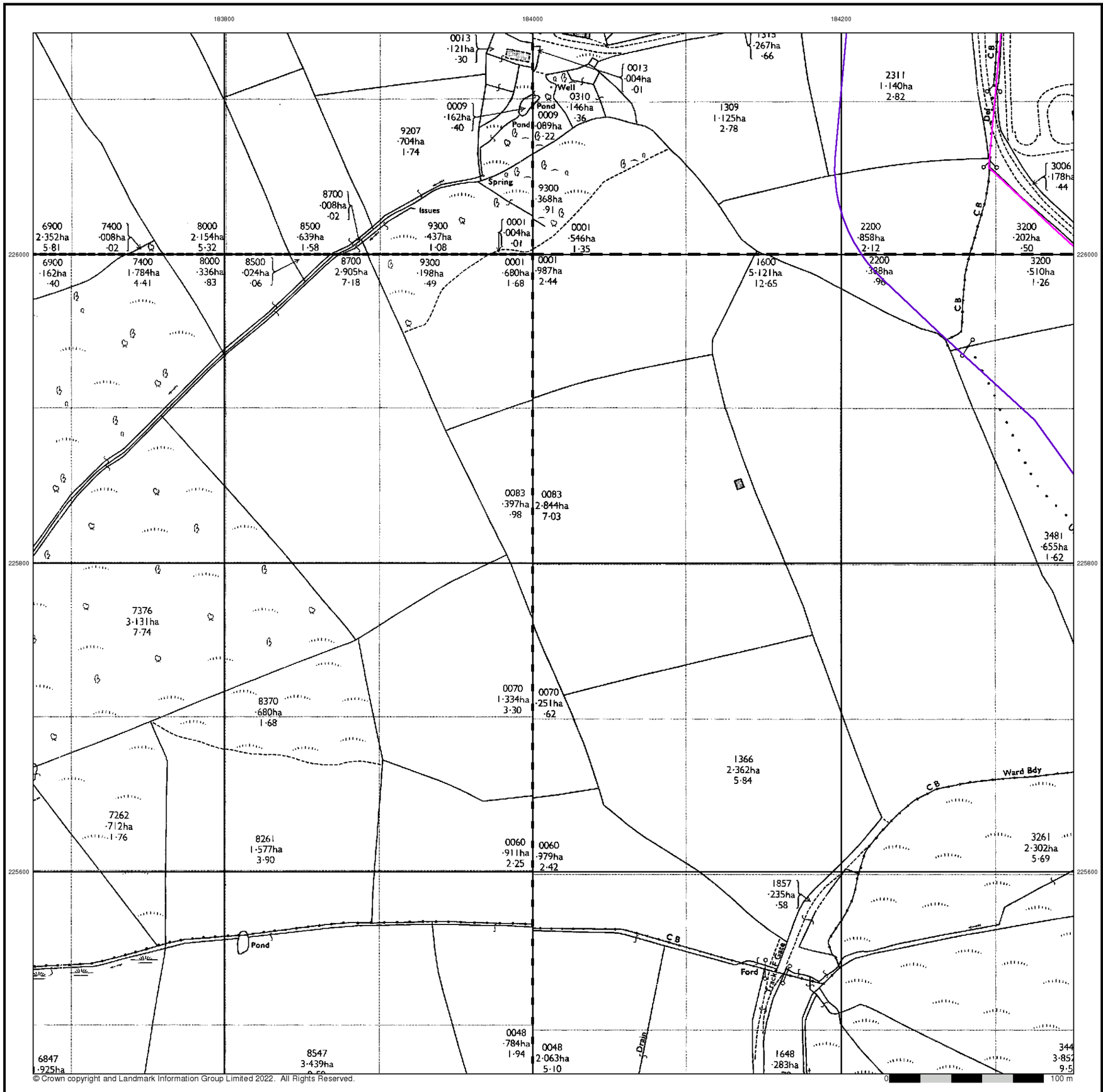
Order Number:	305022956_1_1
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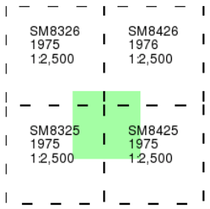
Ordnance Survey Plan

Published 1975 - 1976

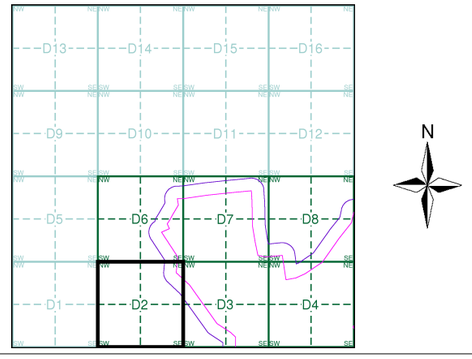
Source map scale - 1:2,500

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 D2



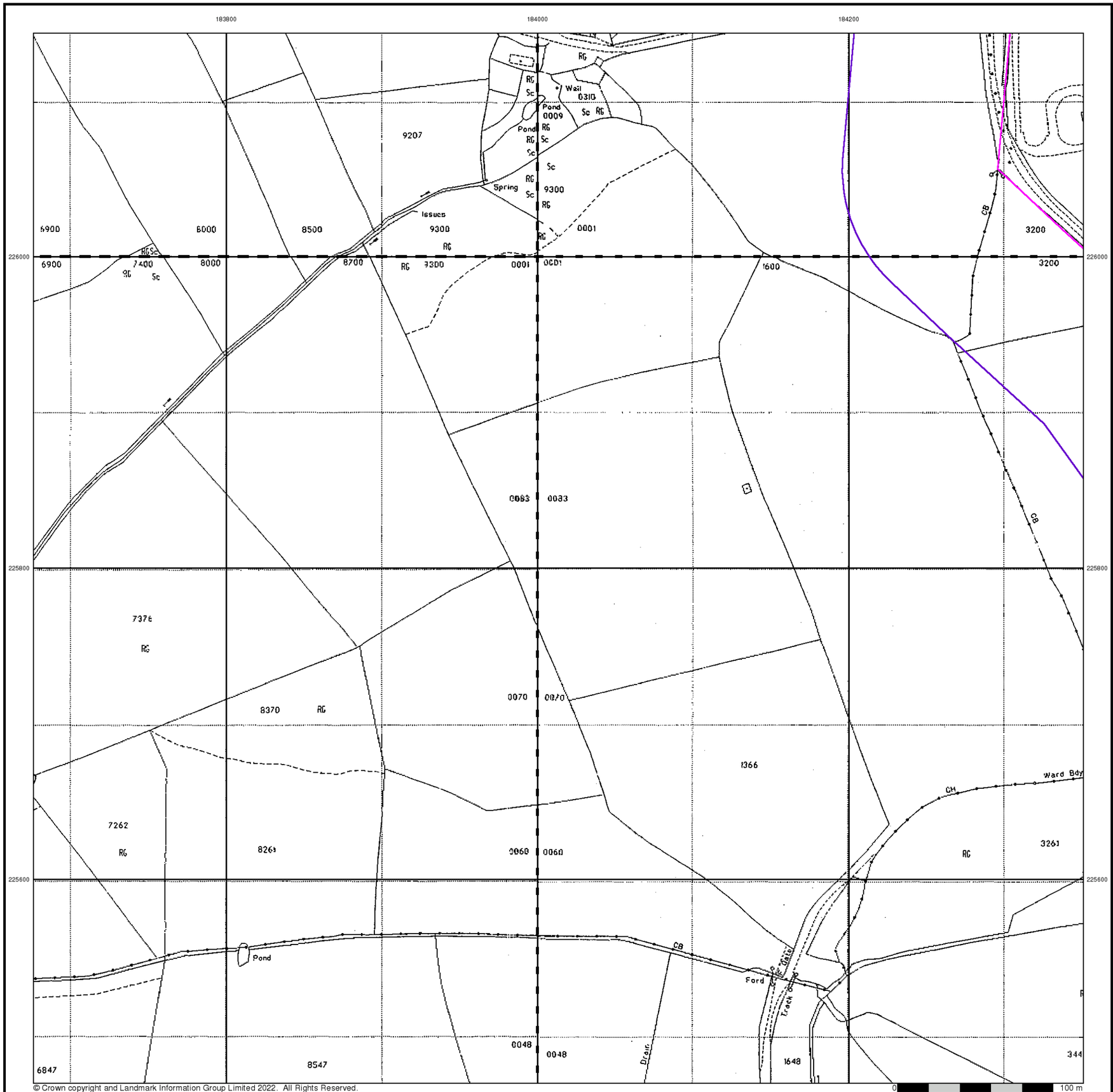
Order Details

Order Number:	305022956_1_1
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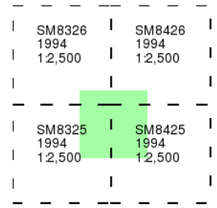
Large-Scale National Grid Data

Published 1994

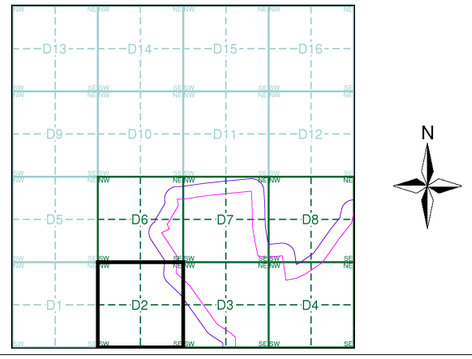
Source map scale - 1:2,500

'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 D2



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	100

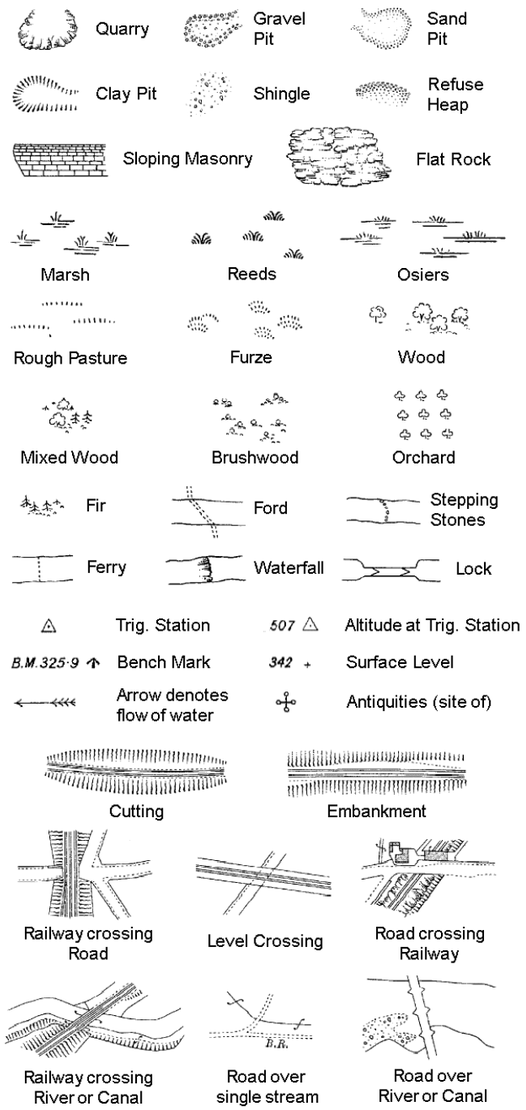
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Historical Mapping Legends

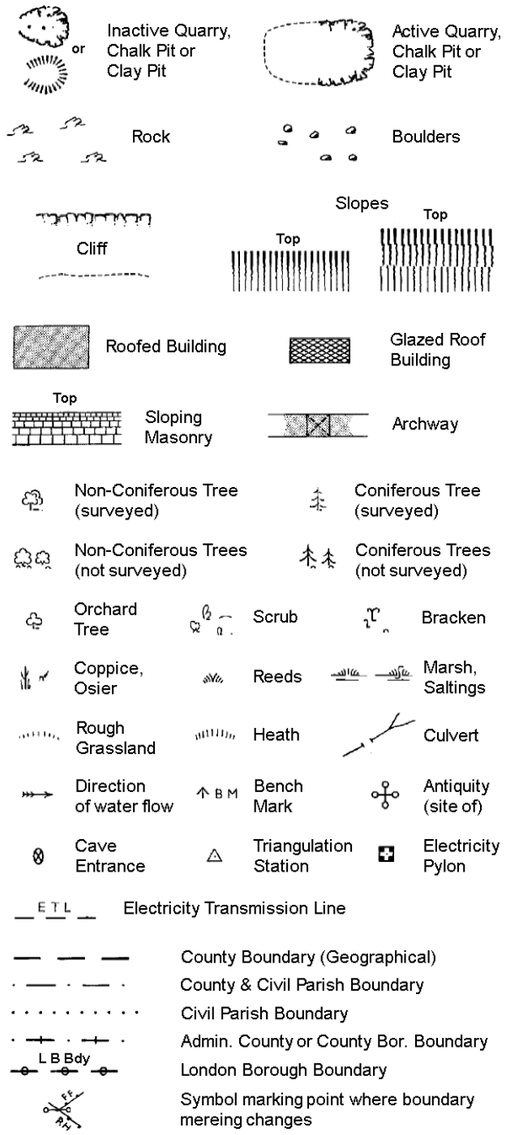
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

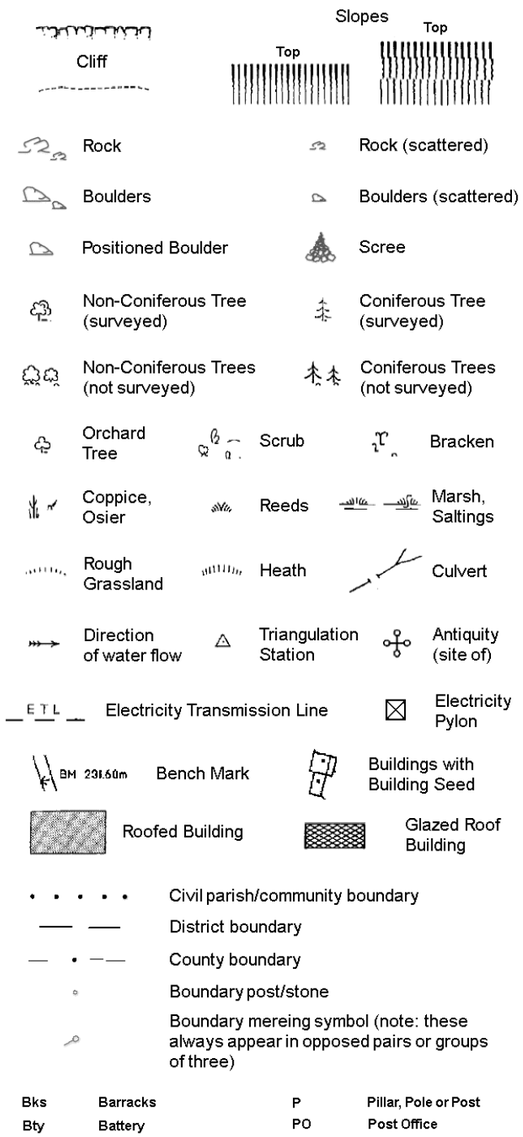
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

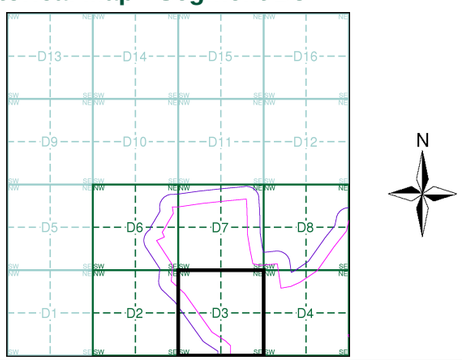
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975 - 1976	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment D3



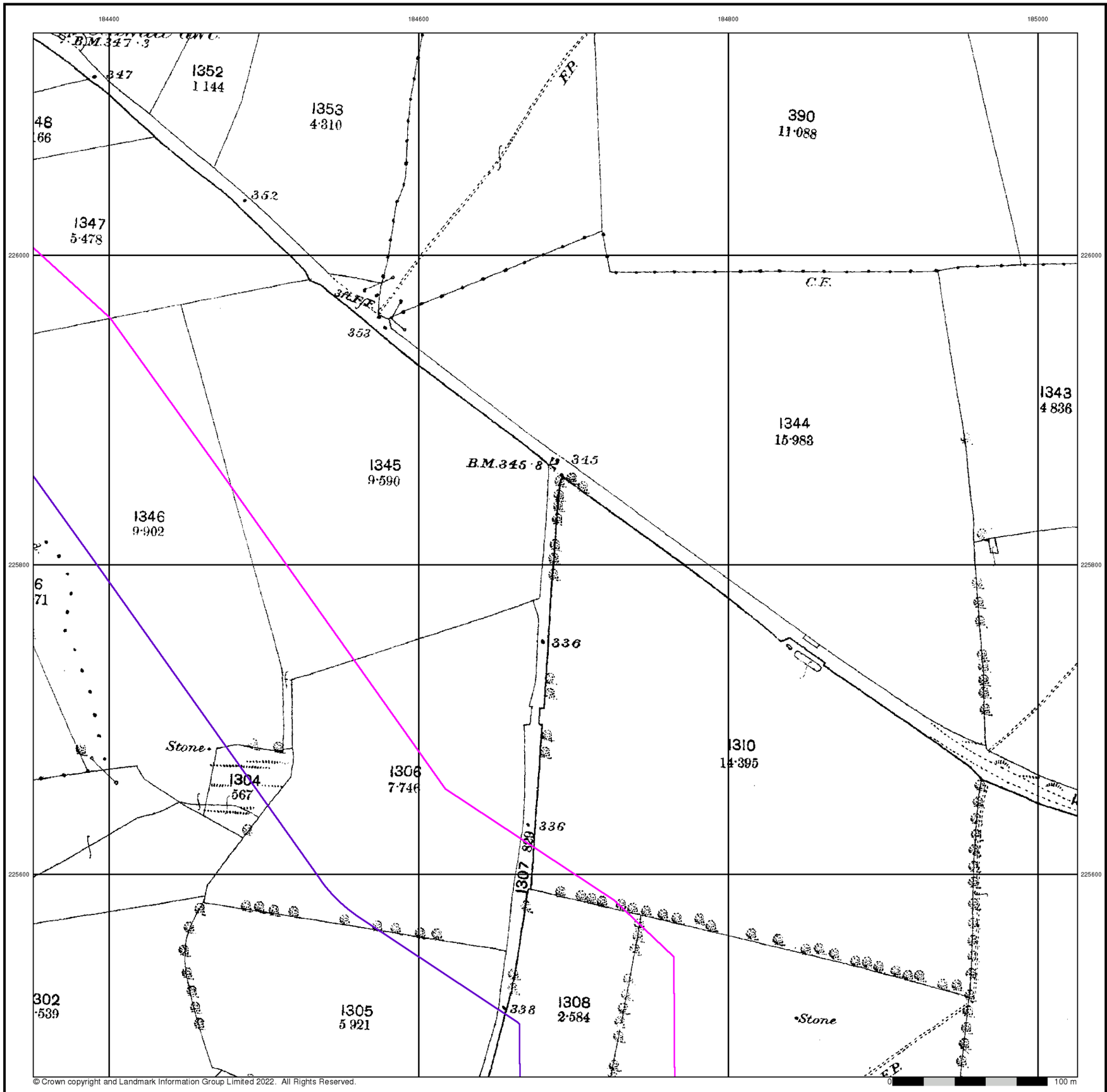
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

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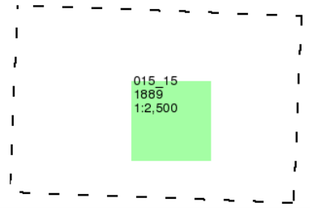
Pembrokeshire

Published 1889

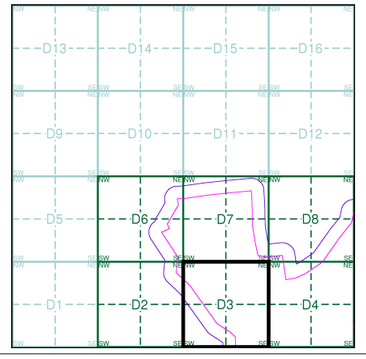
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D3



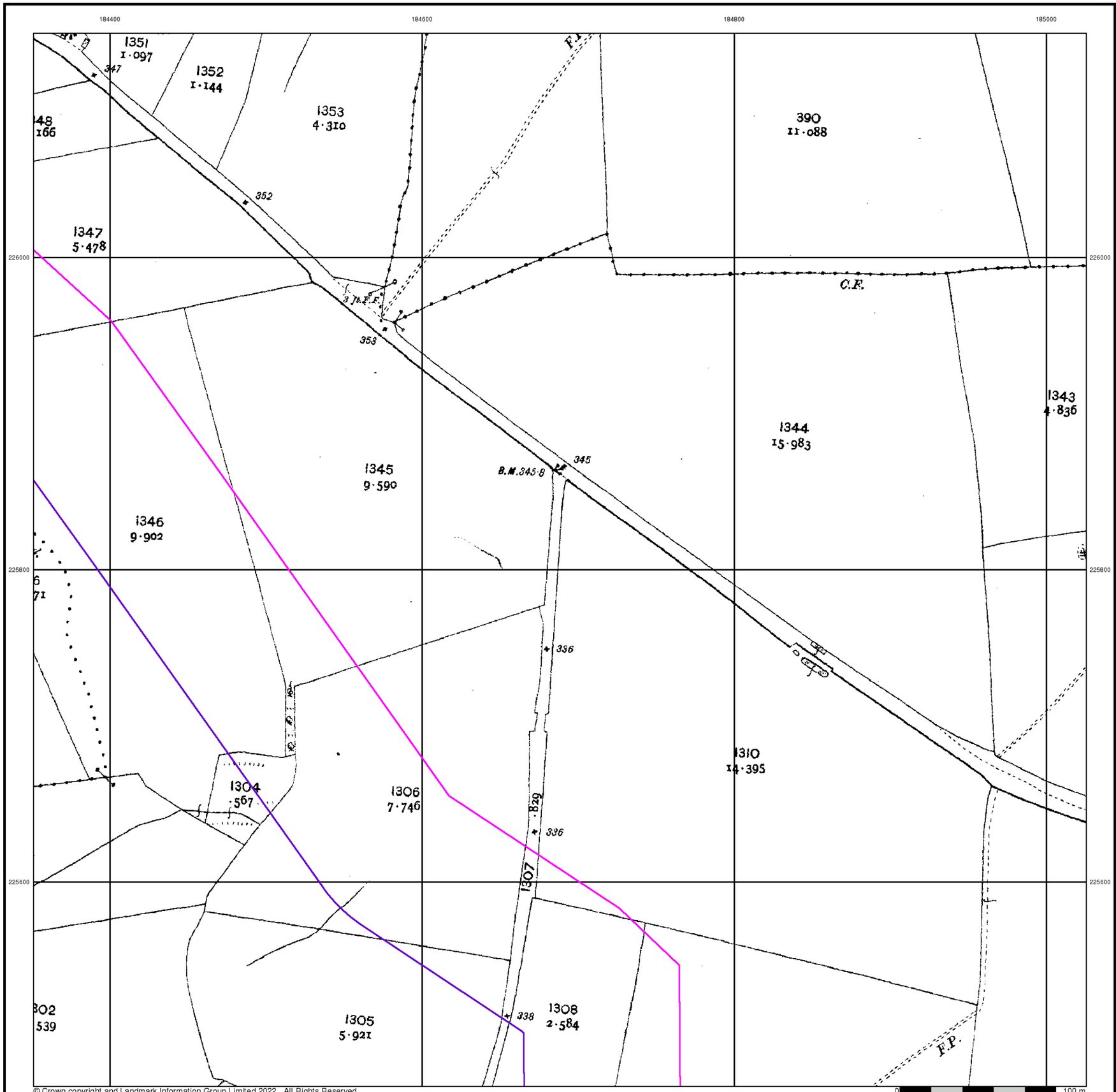
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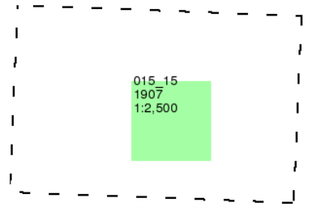
Pembrokeshire

Published 1907

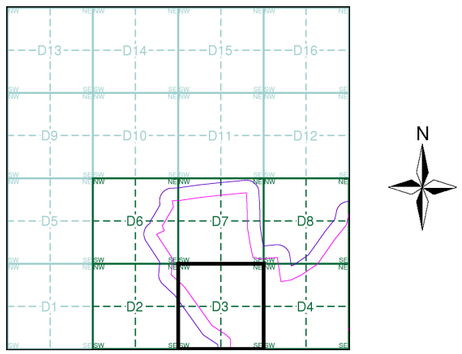
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D3



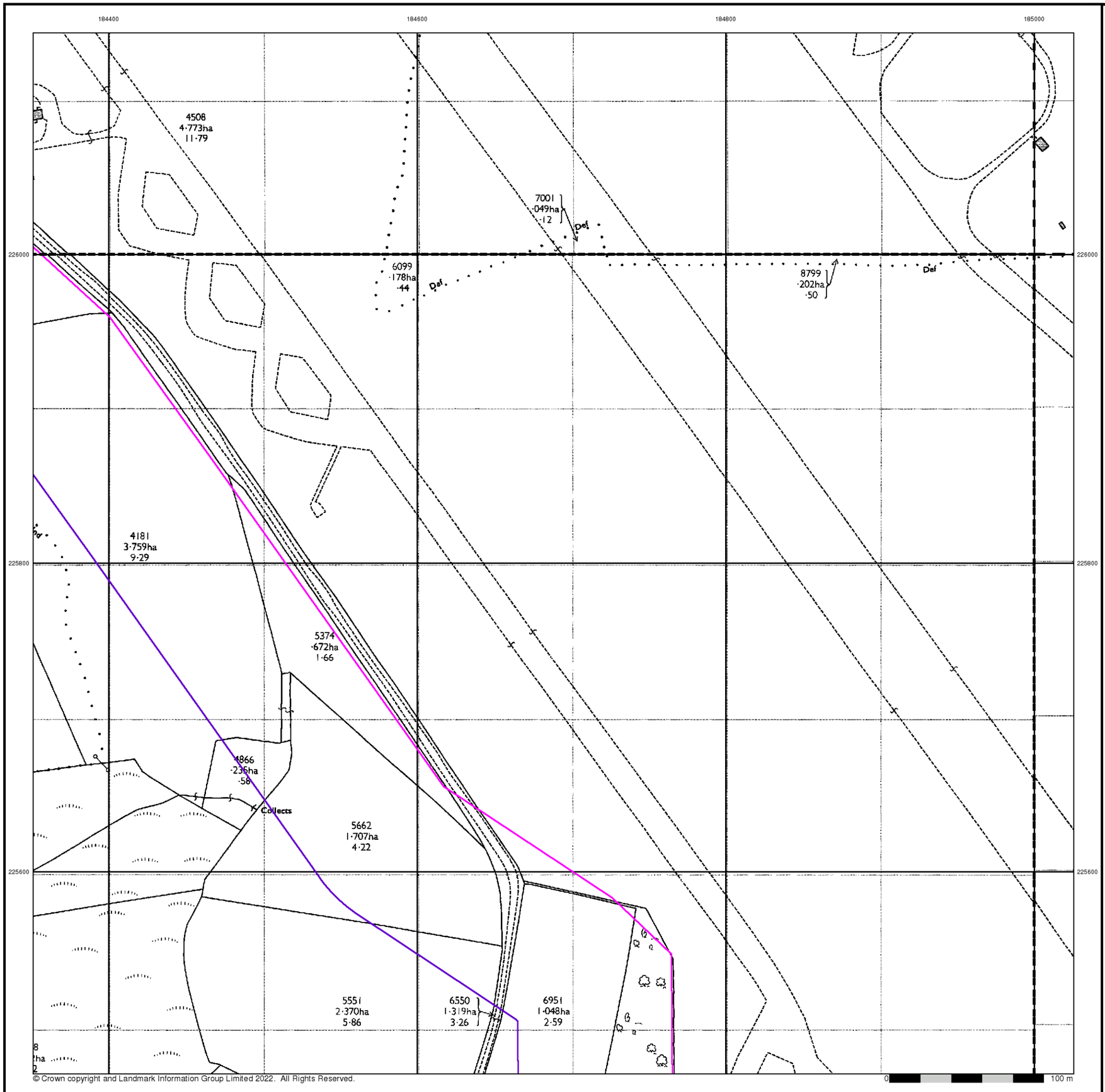
Order Details

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Customer Ref:	65208061
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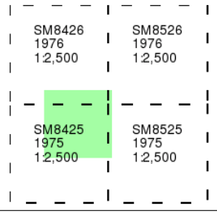
Ordnance Survey Plan

Published 1975 - 1976

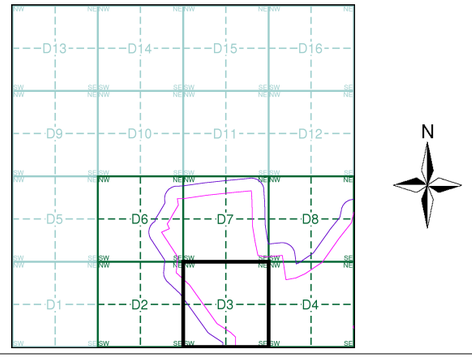
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D3



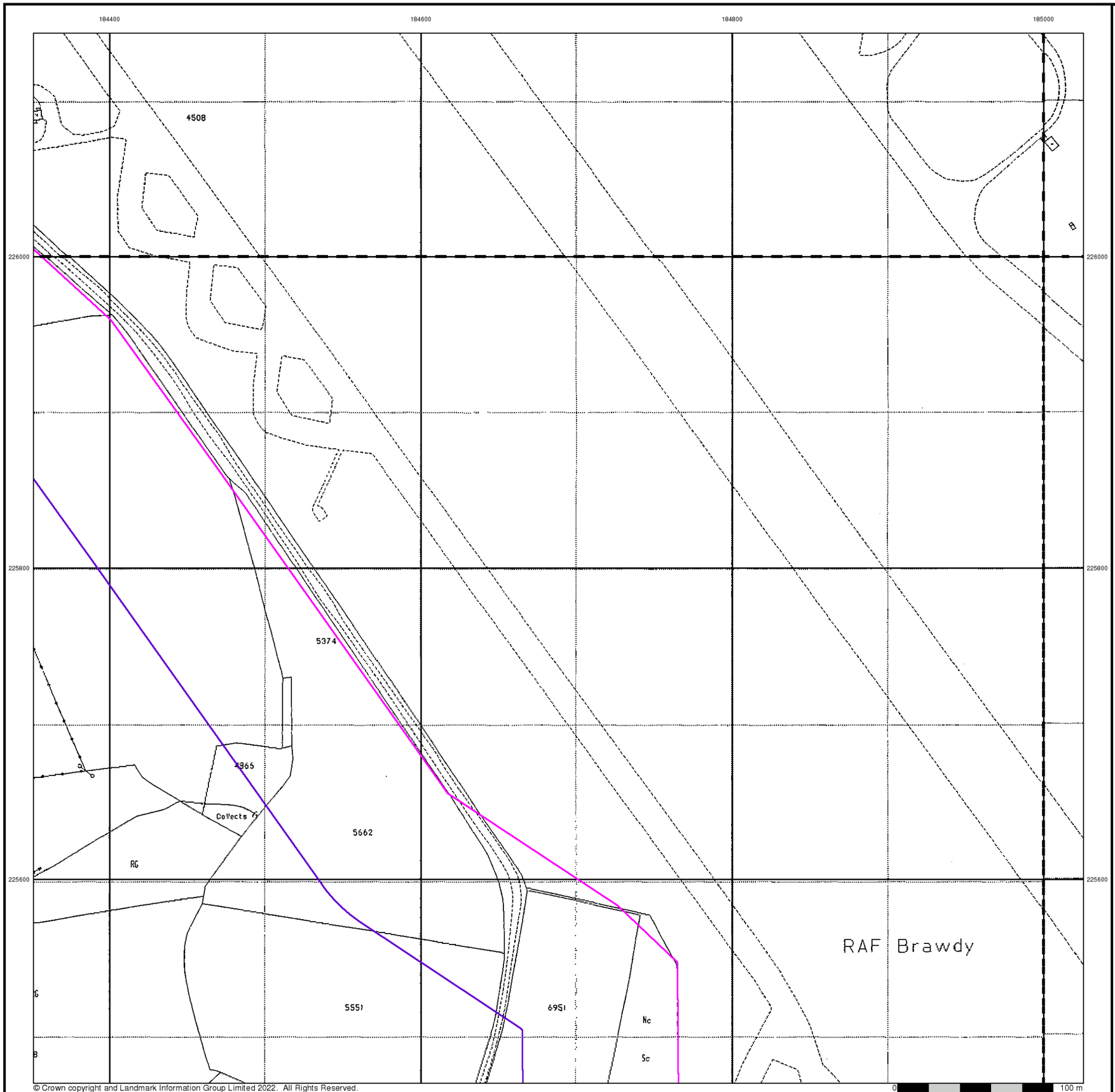
Order Details

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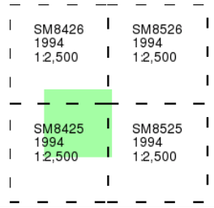
Large-Scale National Grid Data

Published 1994

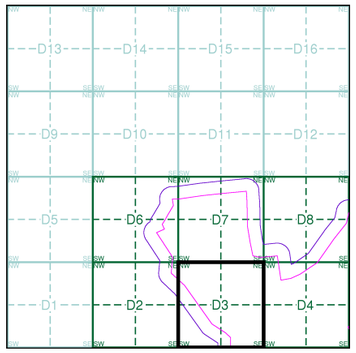
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D3



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	100

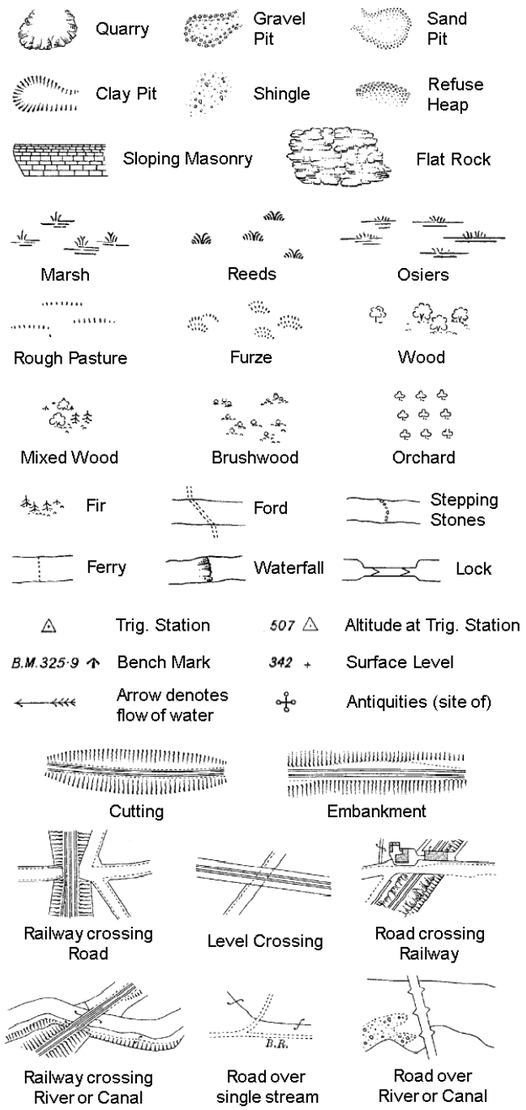
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Historical Mapping Legends

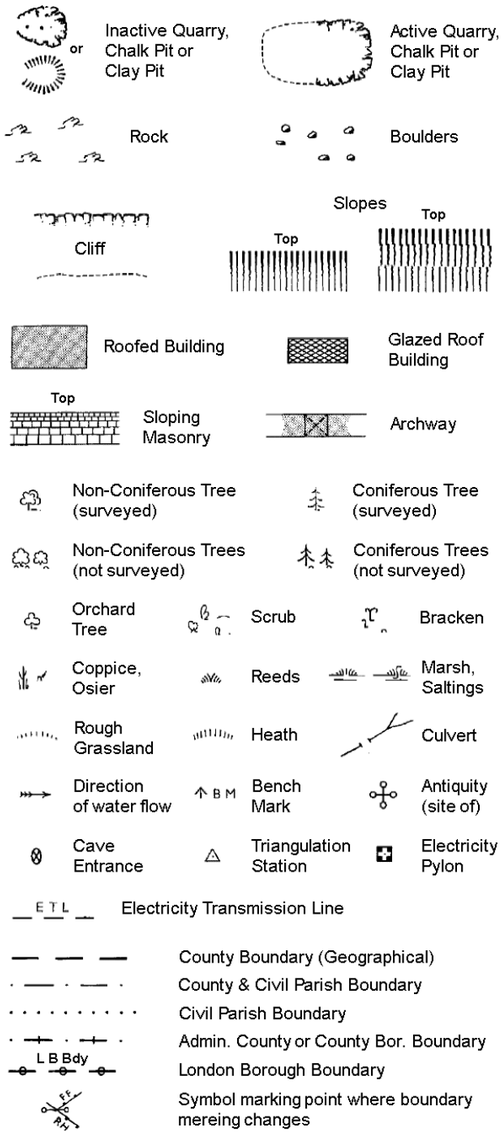
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

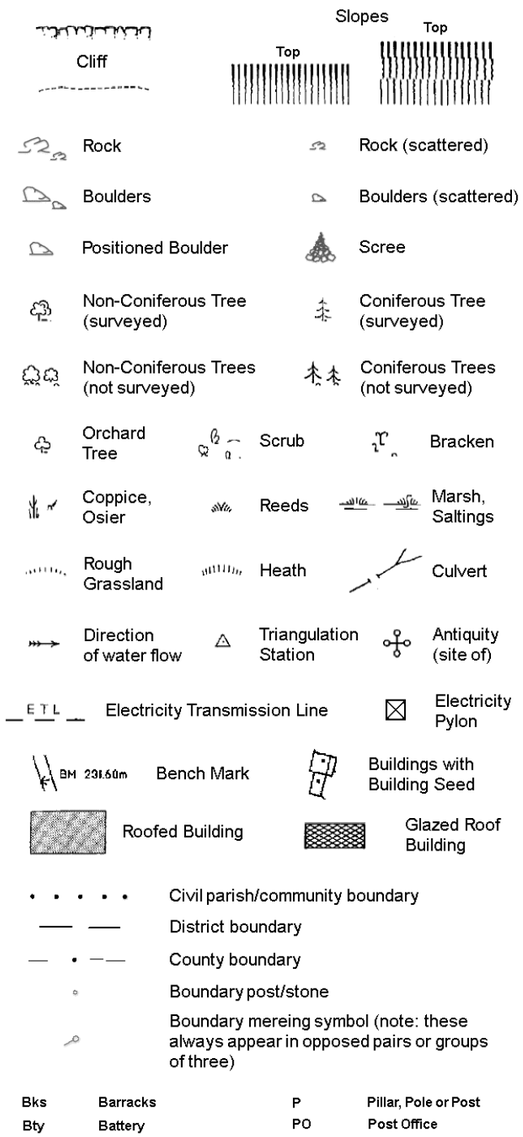
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

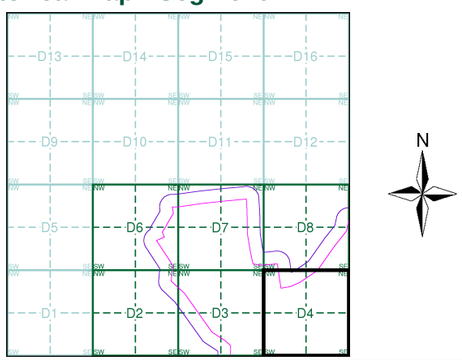
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975 - 1976	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment D4



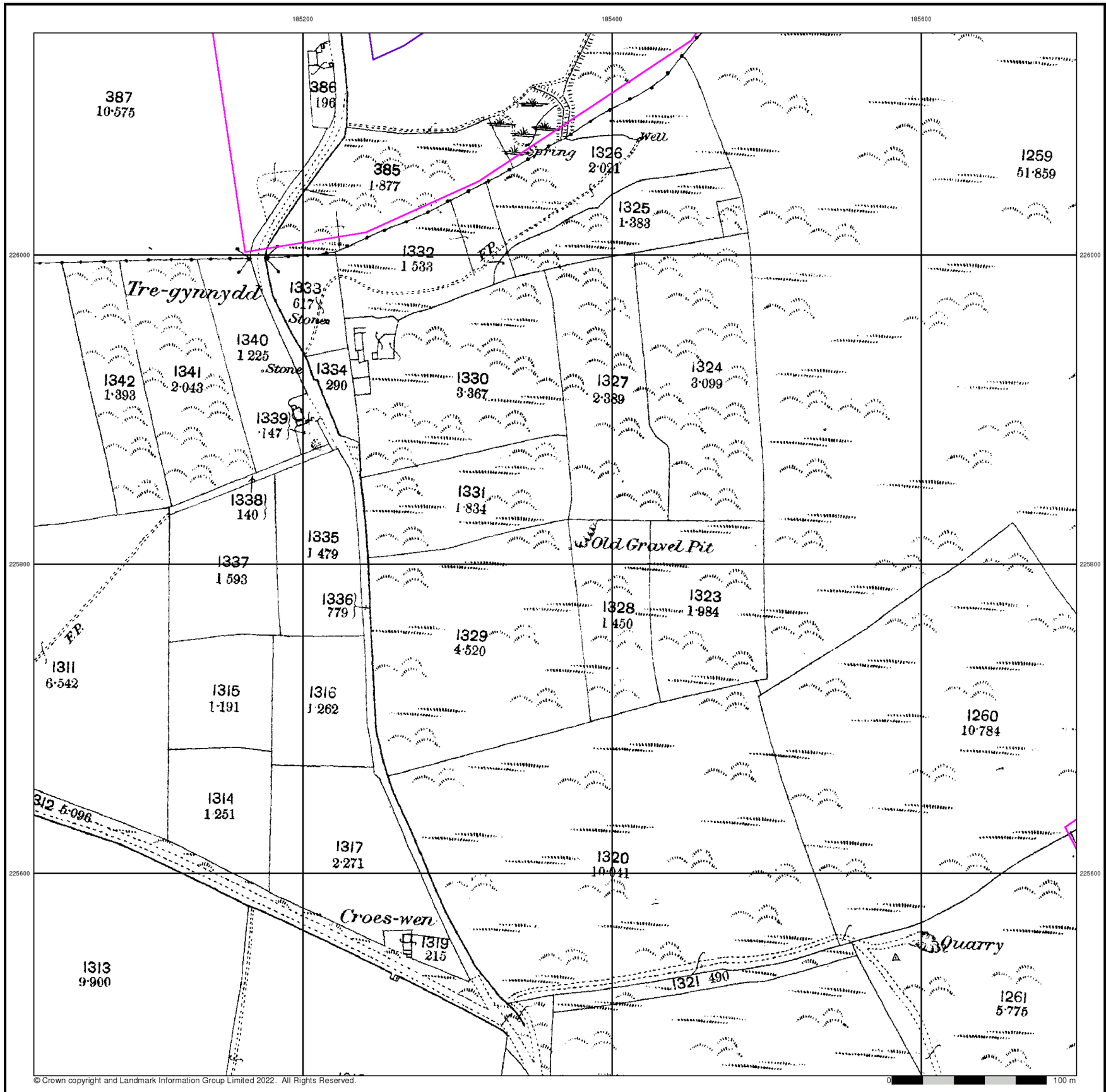
Order Details

Order Number:	305022956_1_1
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Search Buffer (m):	100

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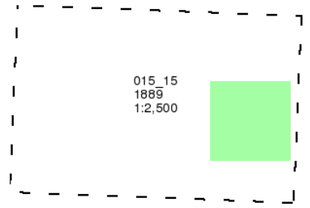
Pembrokeshire

Published 1889

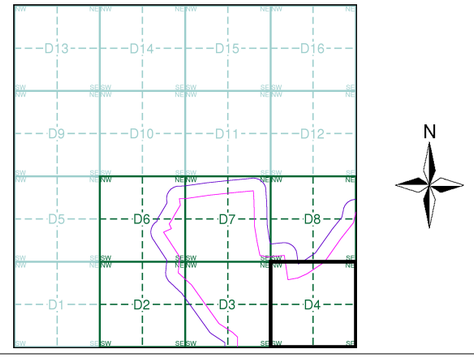
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D4



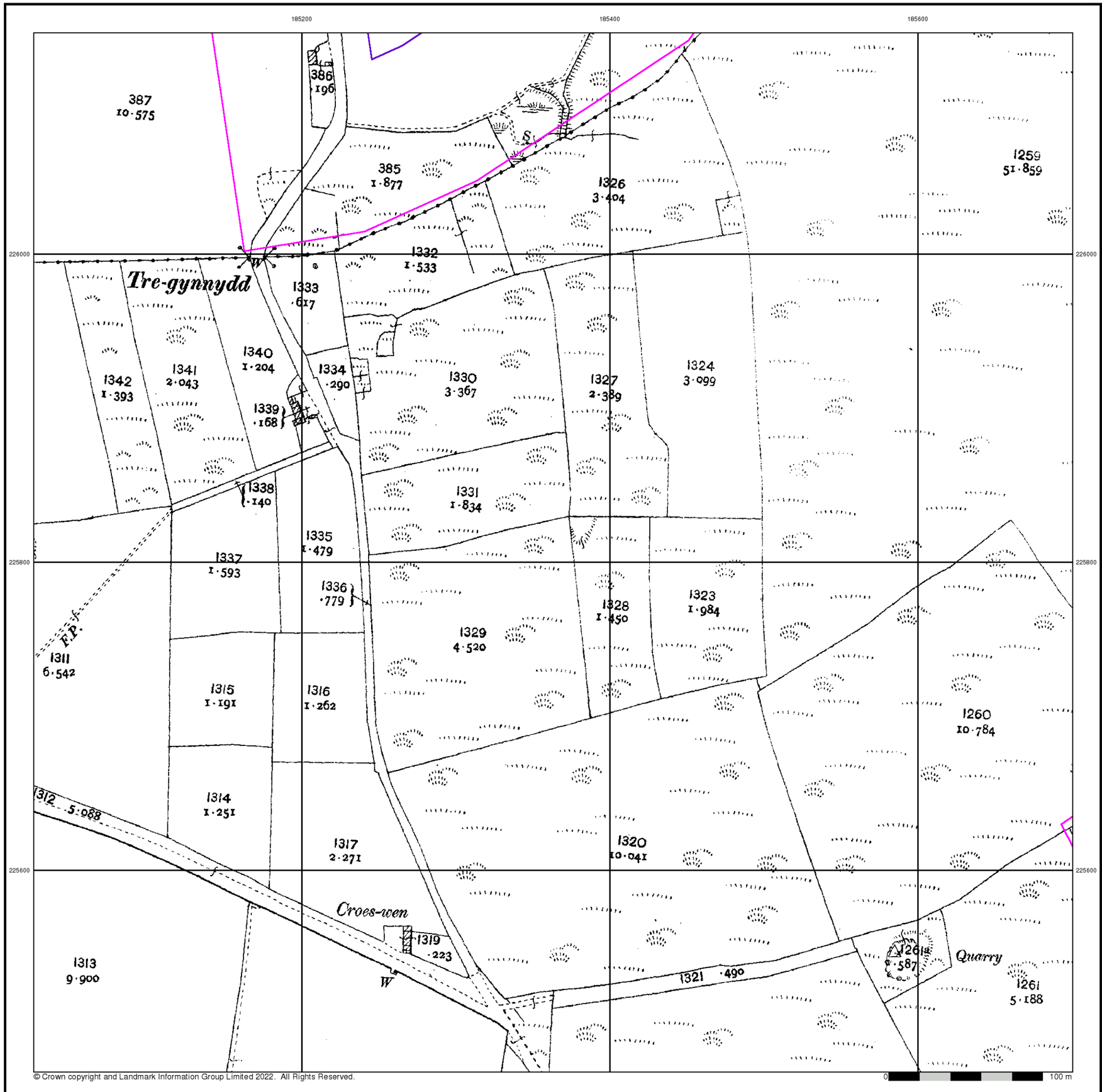
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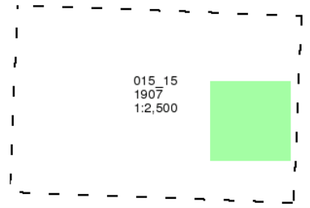
Pembrokeshire

Published 1907

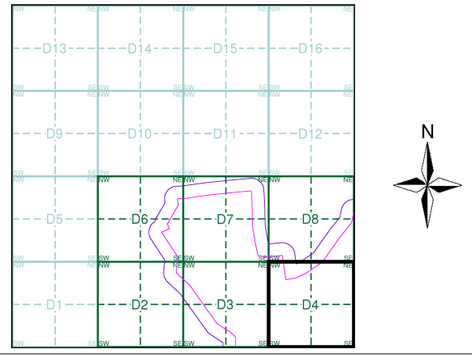
Source map scale - 1:2,500

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Historical Map - Segment D4



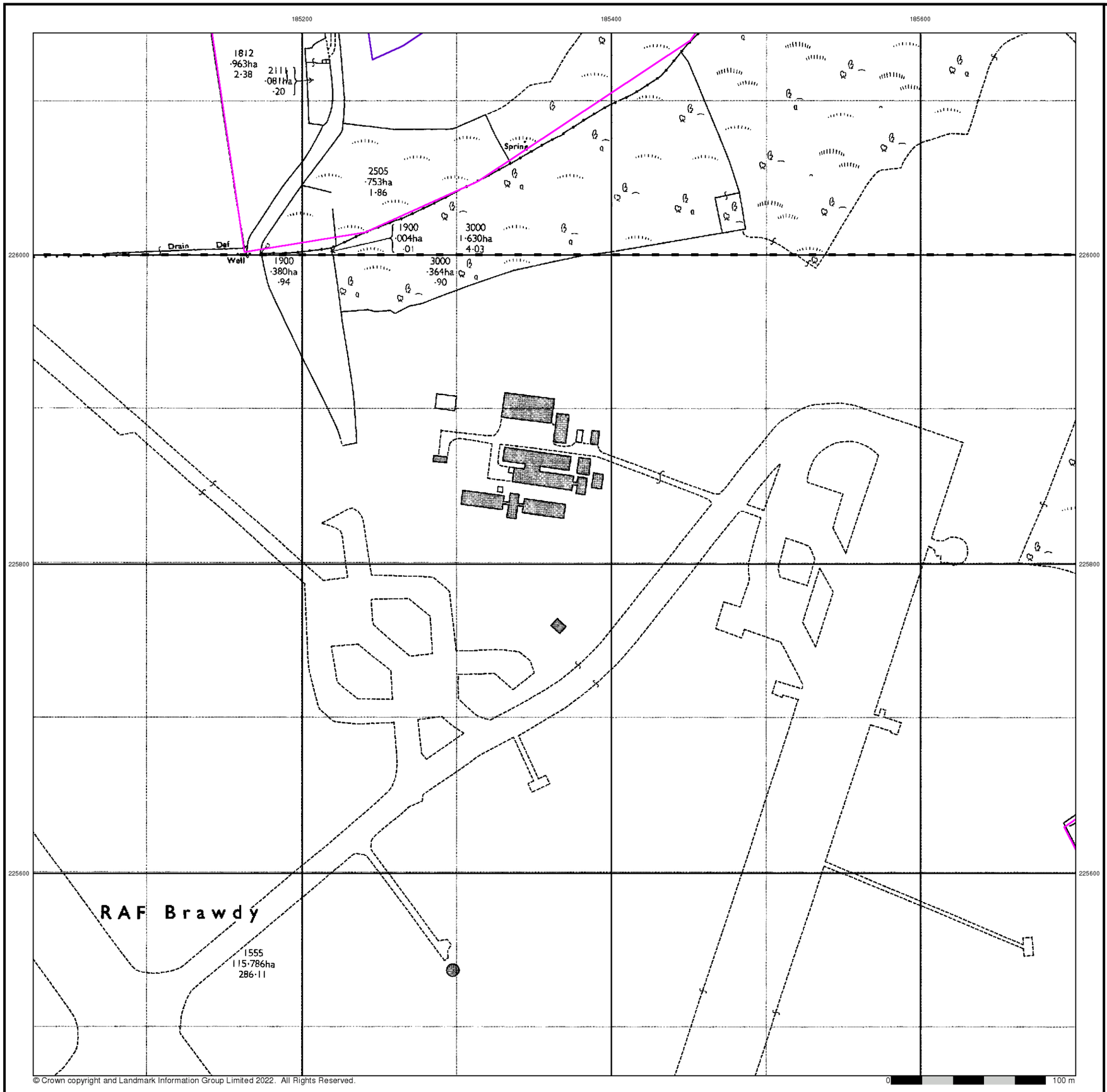
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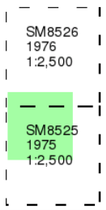
Ordnance Survey Plan

Published 1975 - 1976

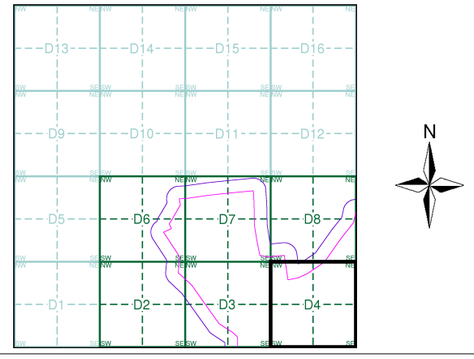
Source map scale - 1:2,500

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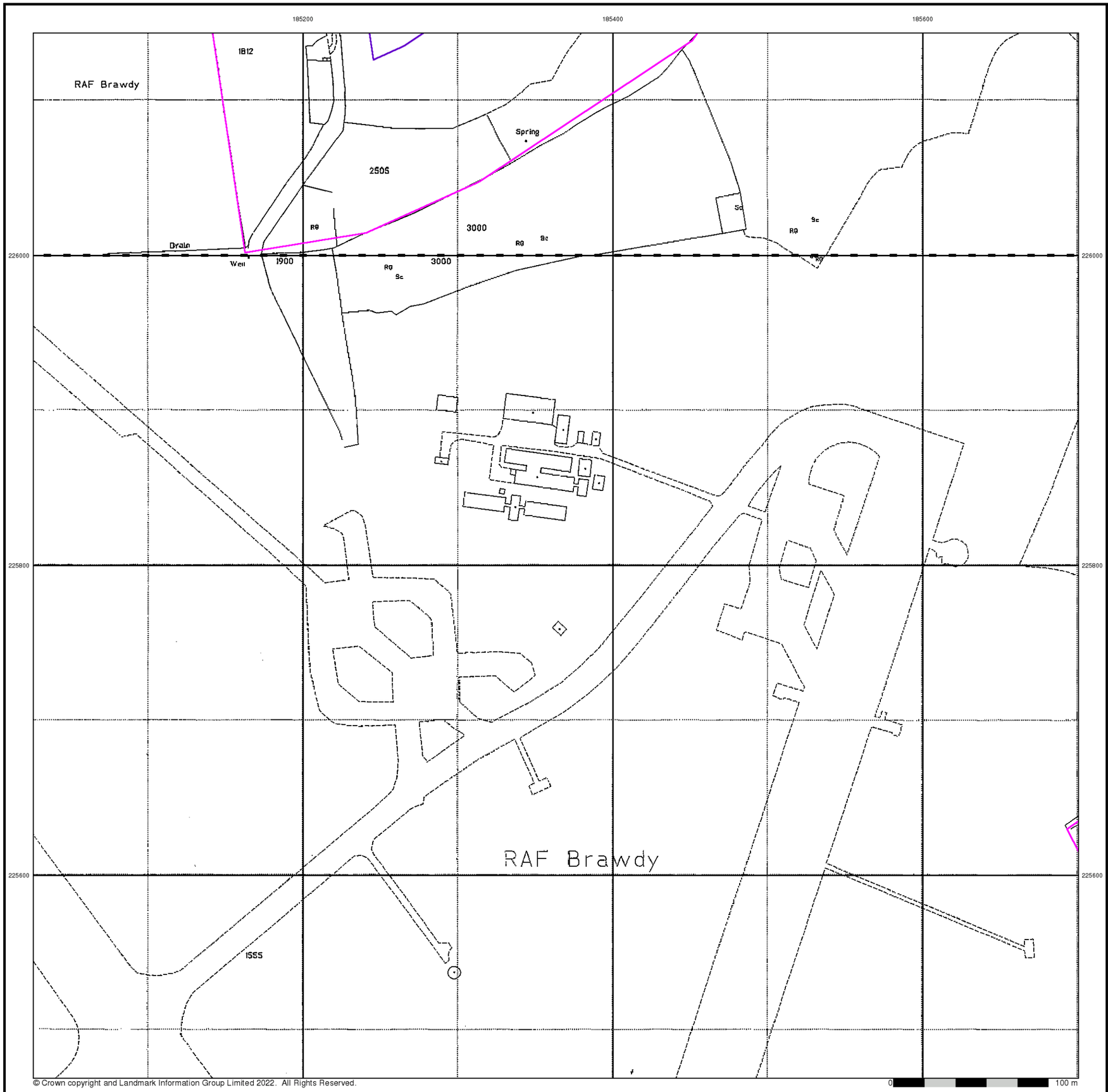
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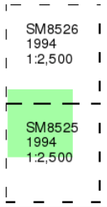
Large-Scale National Grid Data

Published 1994

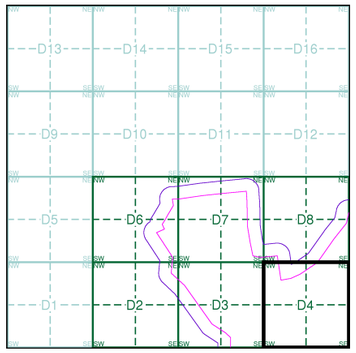
Source map scale - 1:2,500

'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)



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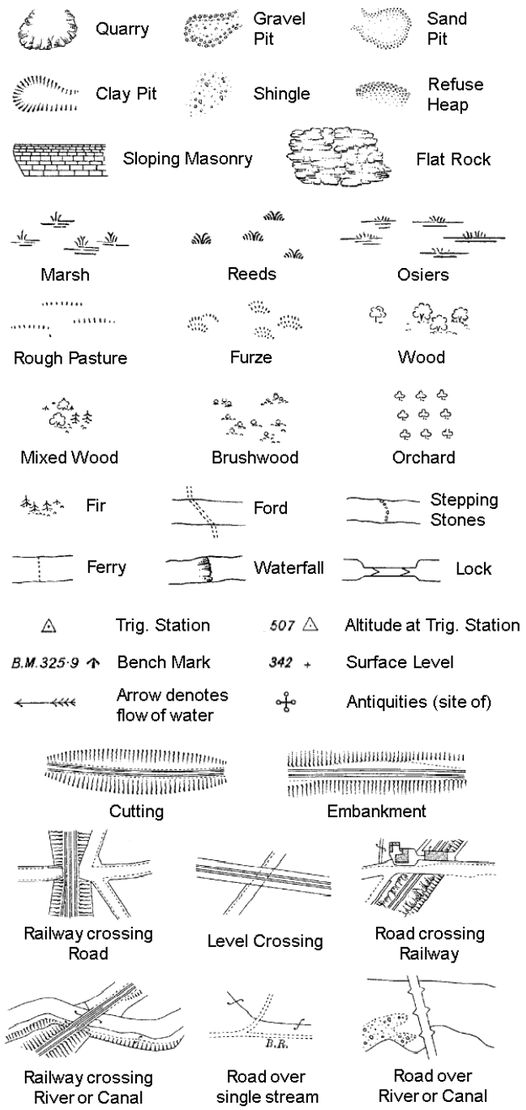
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Historical Mapping Legends

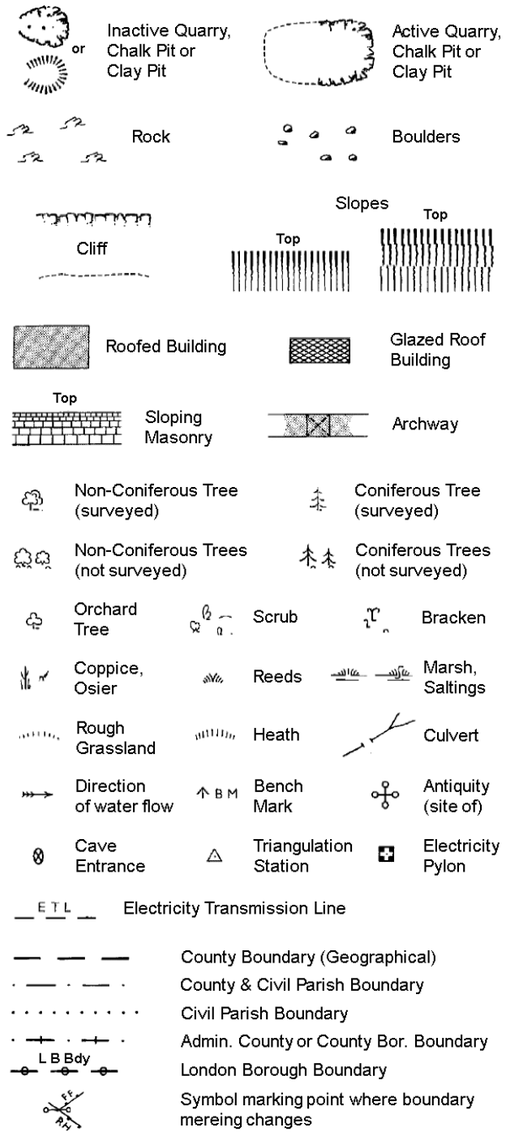
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

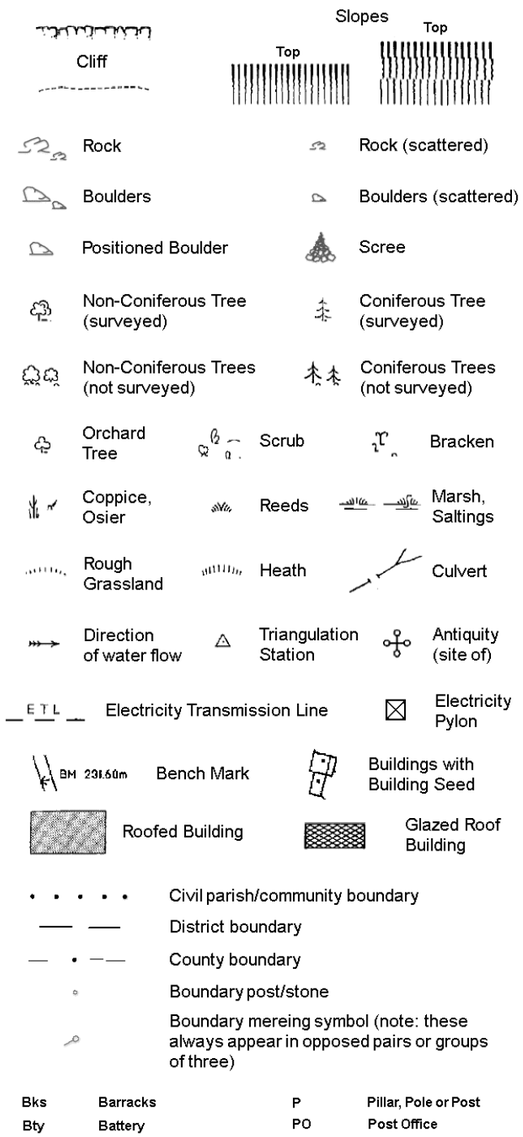
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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
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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)

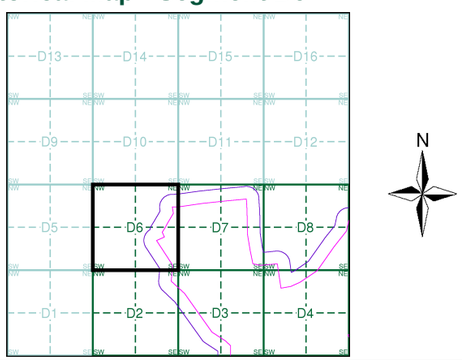
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975 - 1976	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment D6



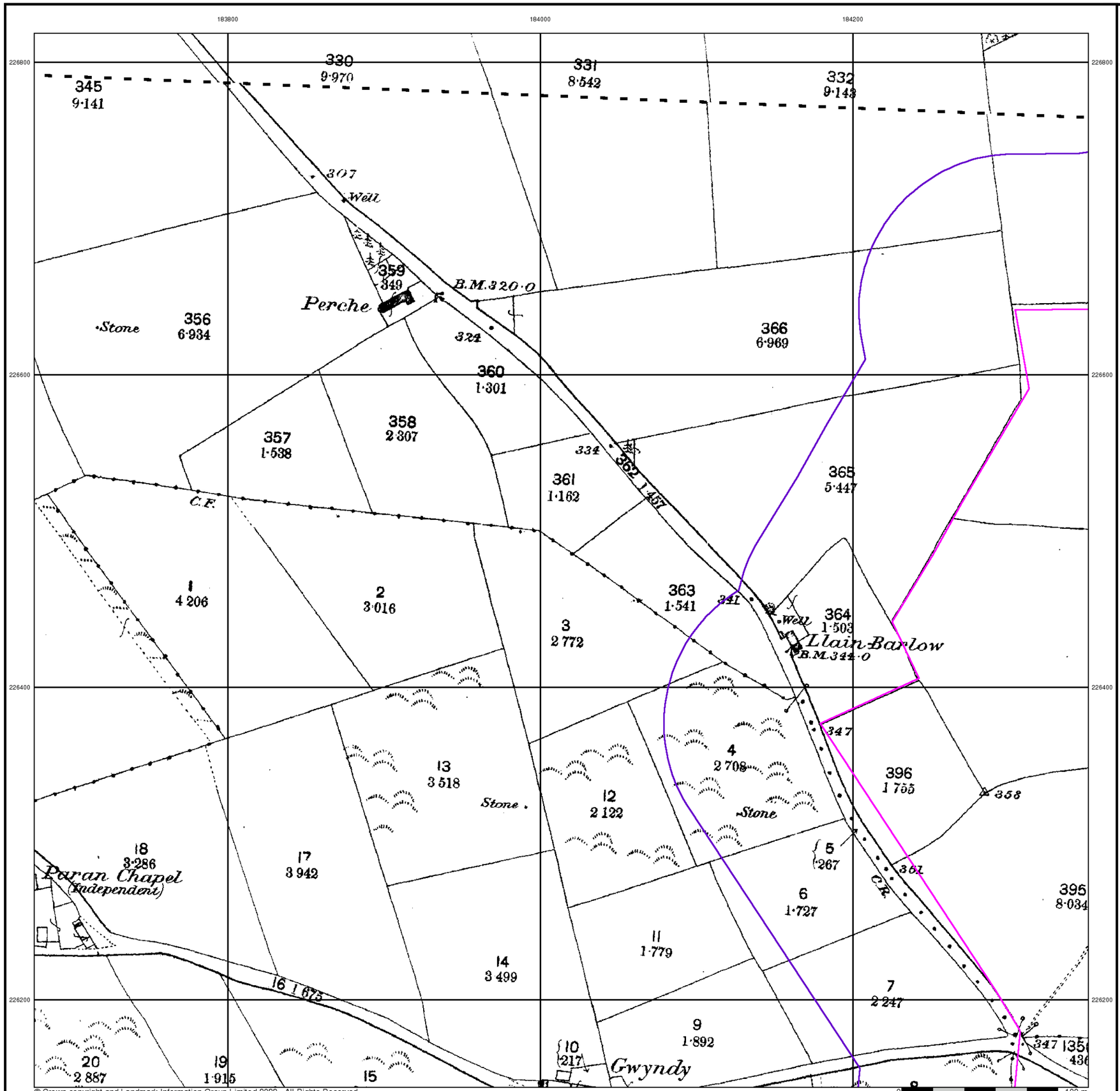
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Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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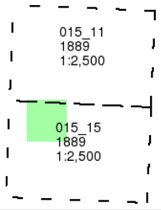
Pembrokeshire

Published 1889

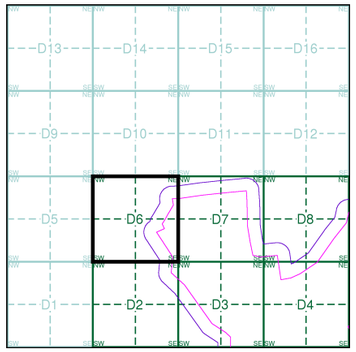
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D6



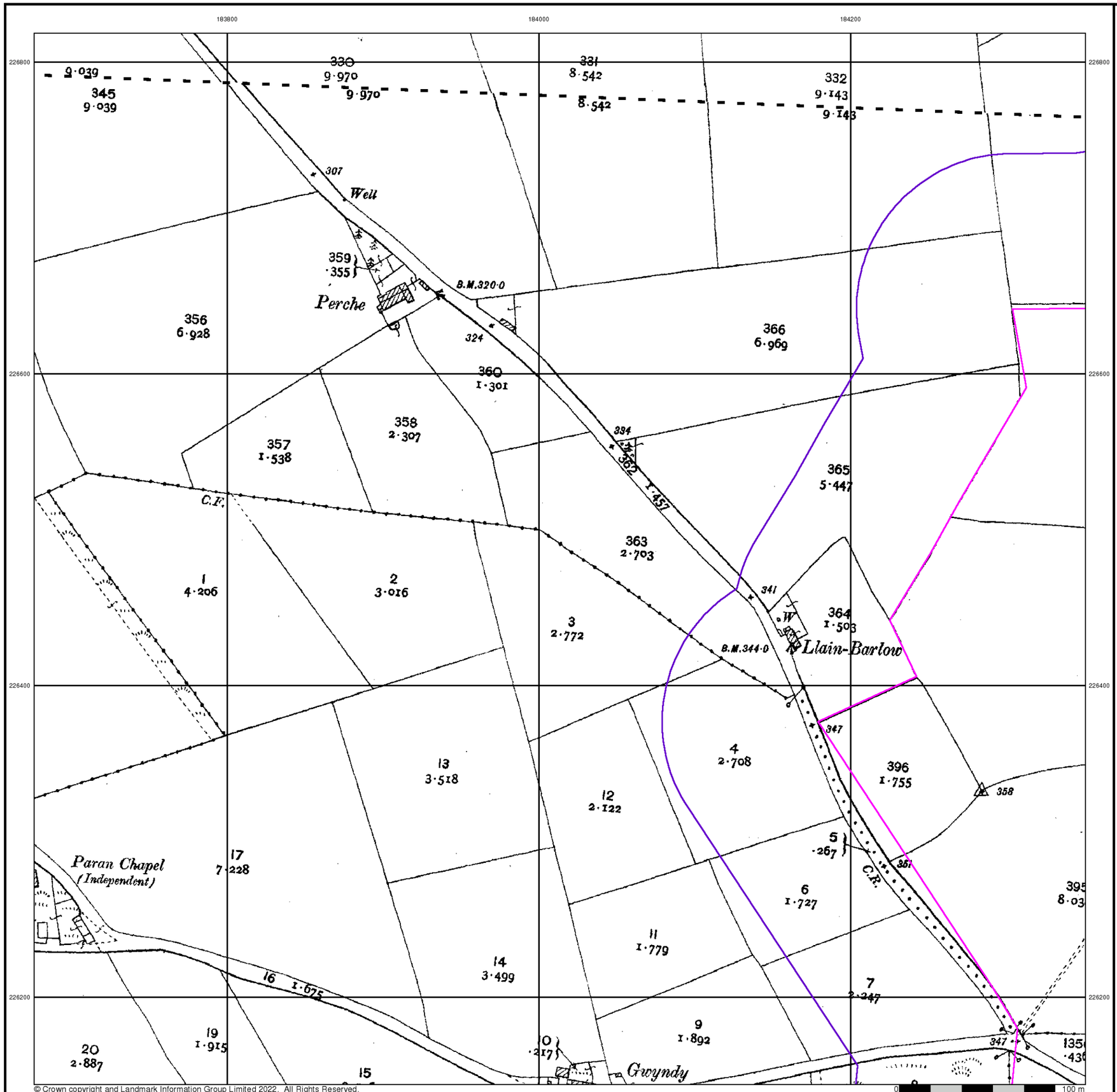
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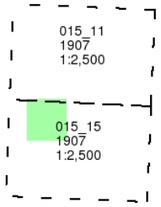
Pembrokeshire

Published 1907

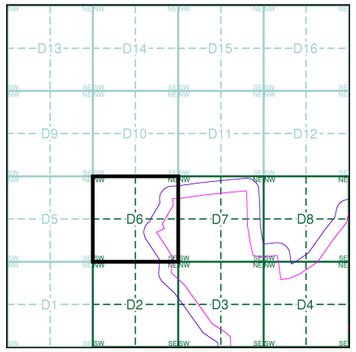
Source map scale - 1:2,500

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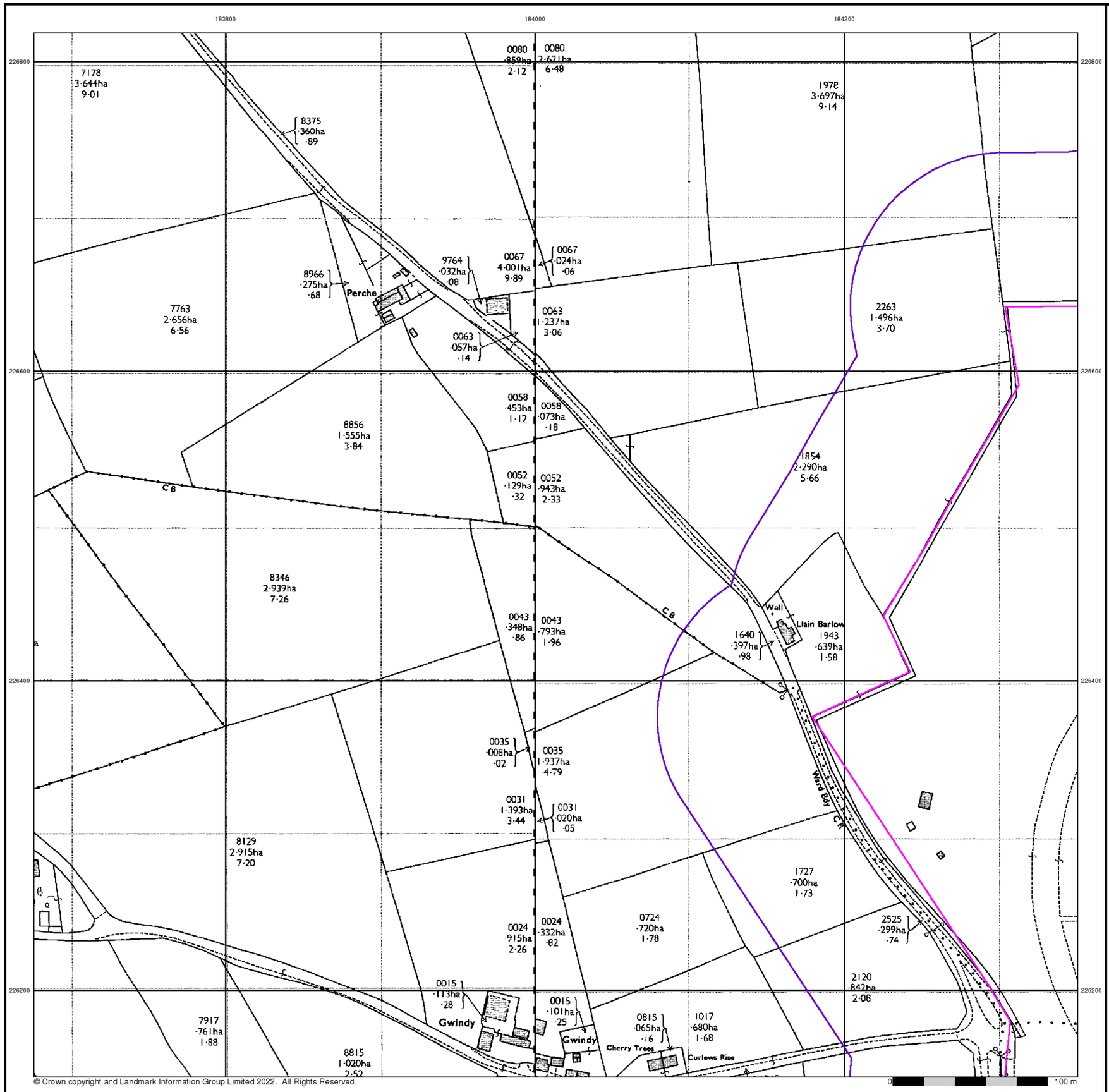
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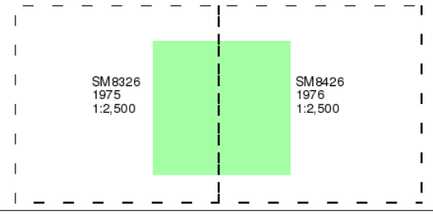
Ordnance Survey Plan

Published 1975 - 1976

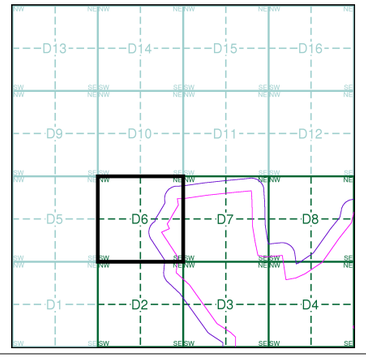
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D6



Order Details

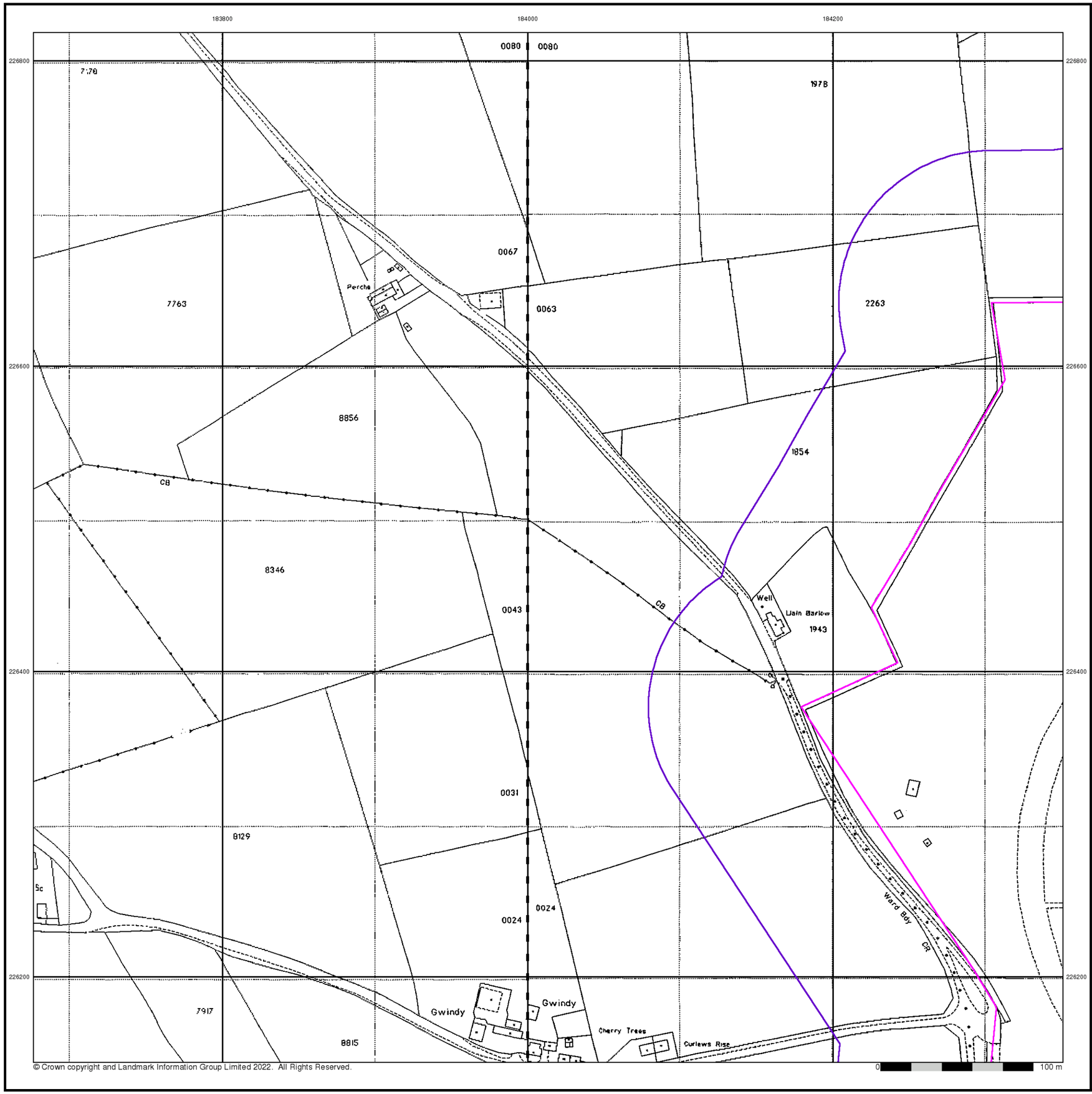
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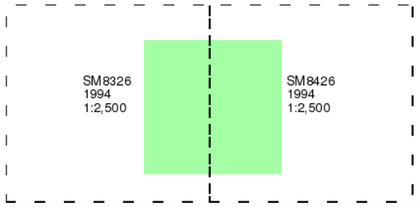
Large-Scale National Grid Data

Published 1994

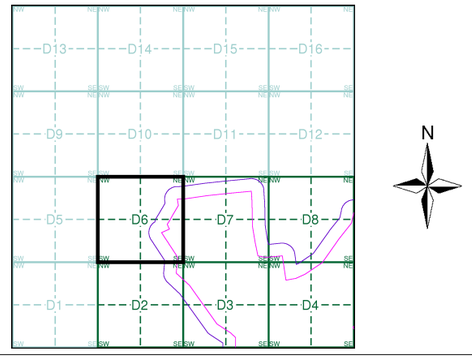
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D6



Order Details

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Site Details

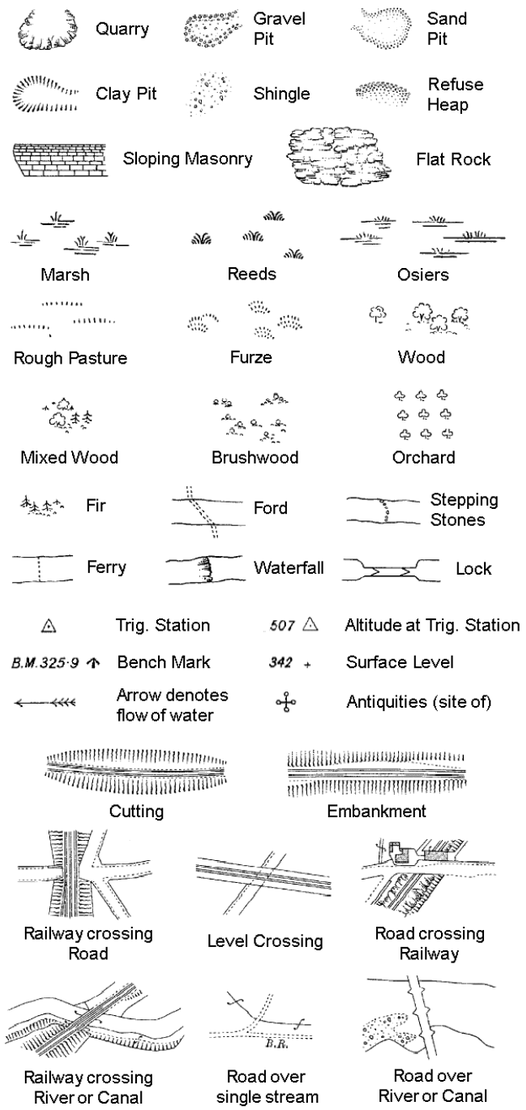
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

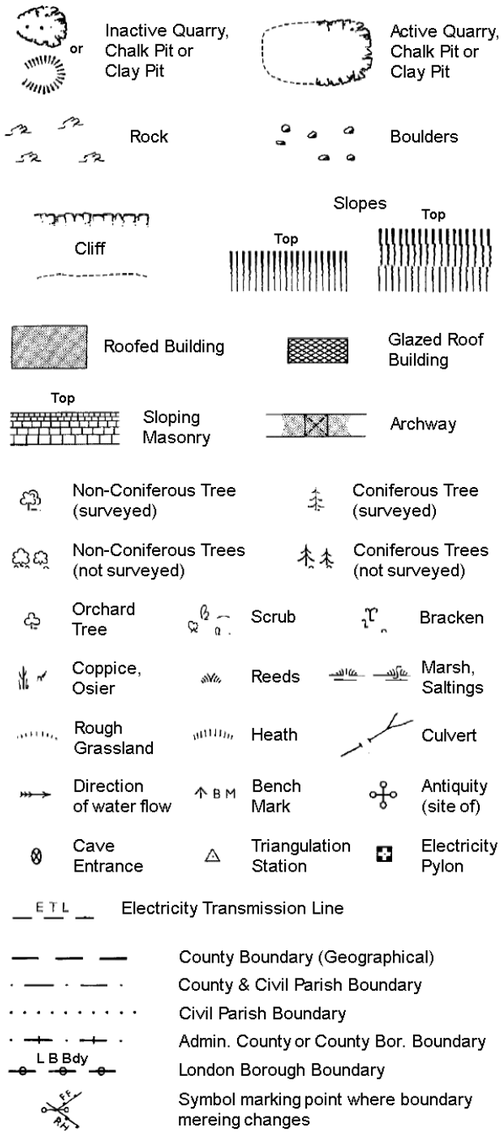
Administrative County & Civil Parish Boundary

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
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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

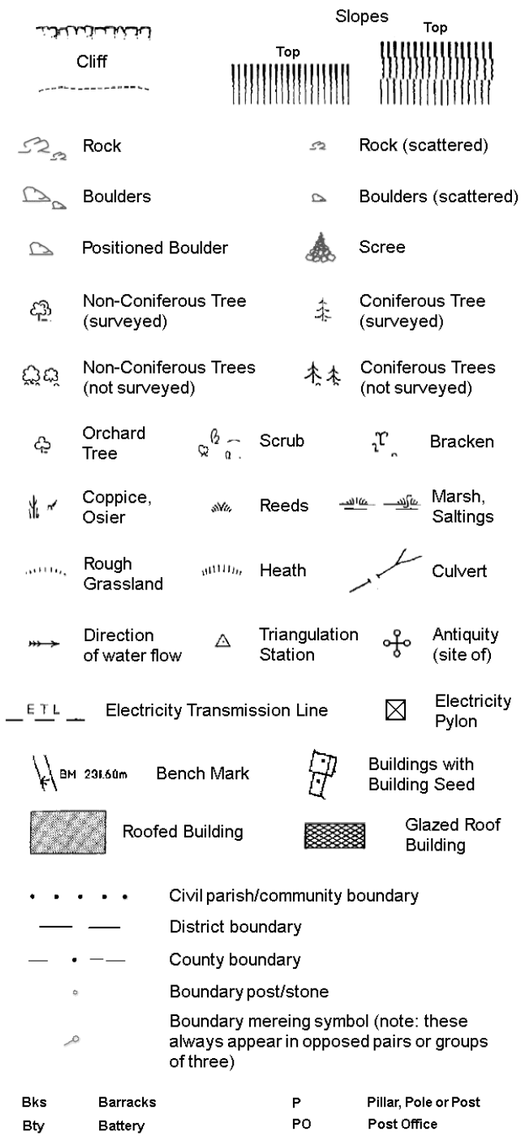
Admin. County or County Bor. Boundary

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
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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)

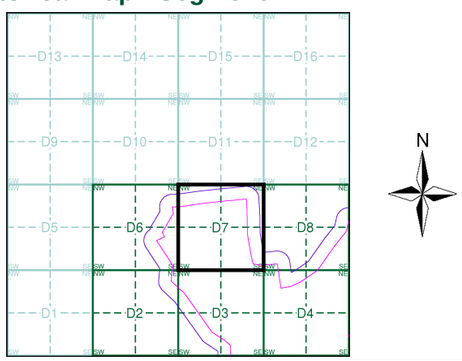
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
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MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1976	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment D7



Order Details

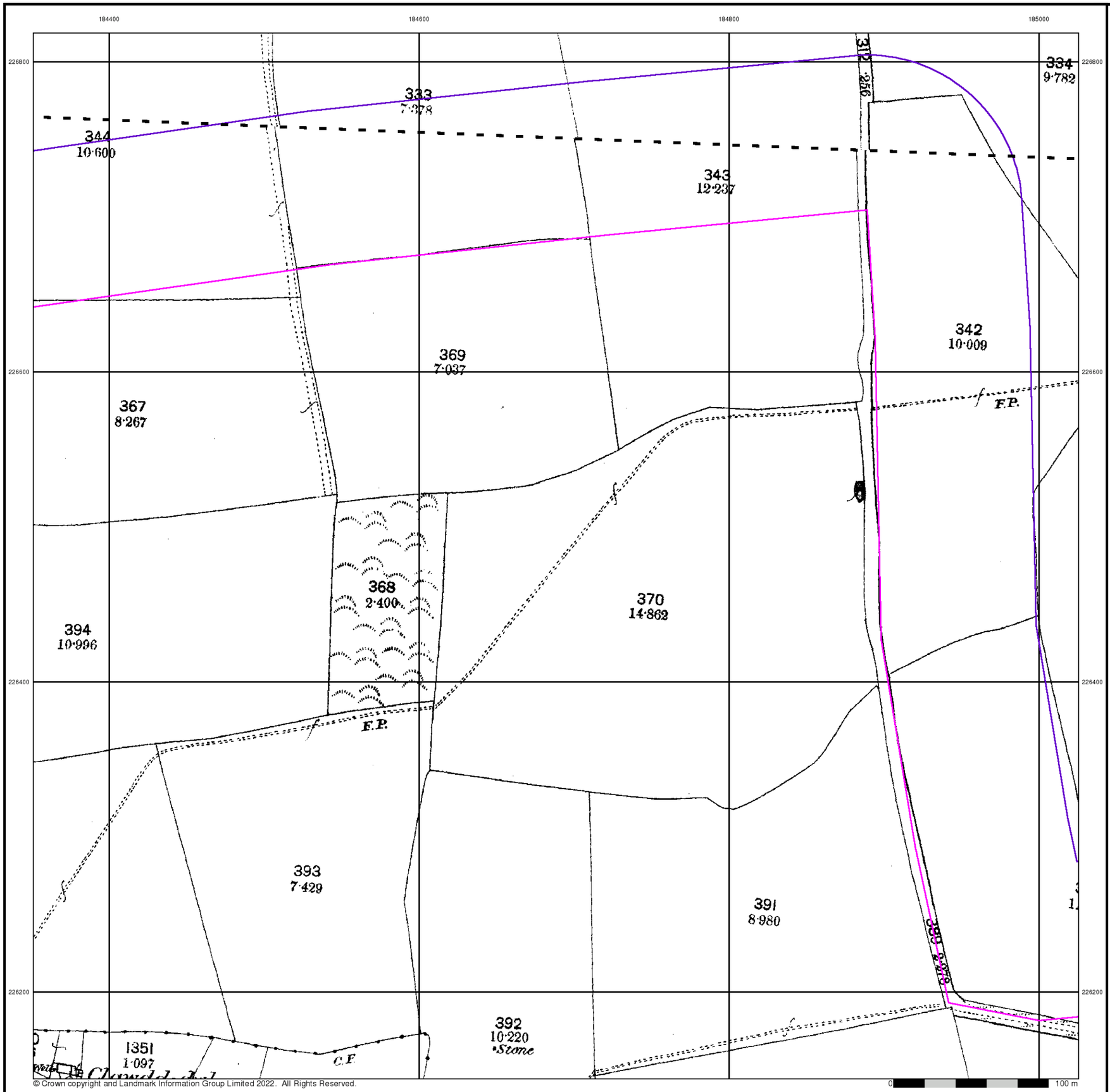
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Customer Ref: 65208061
National Grid Reference: 184520, 226520
Slice: D
Site Area (Ha): 308.46
Search Buffer (m): 100

Site Details

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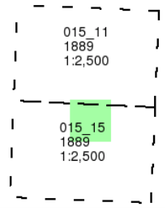
Pembrokeshire

Published 1889

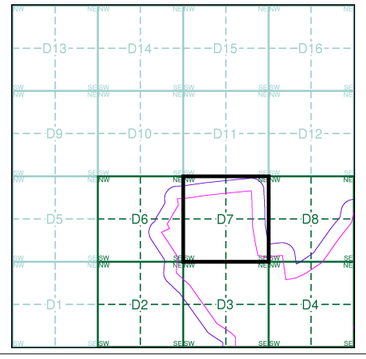
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D7



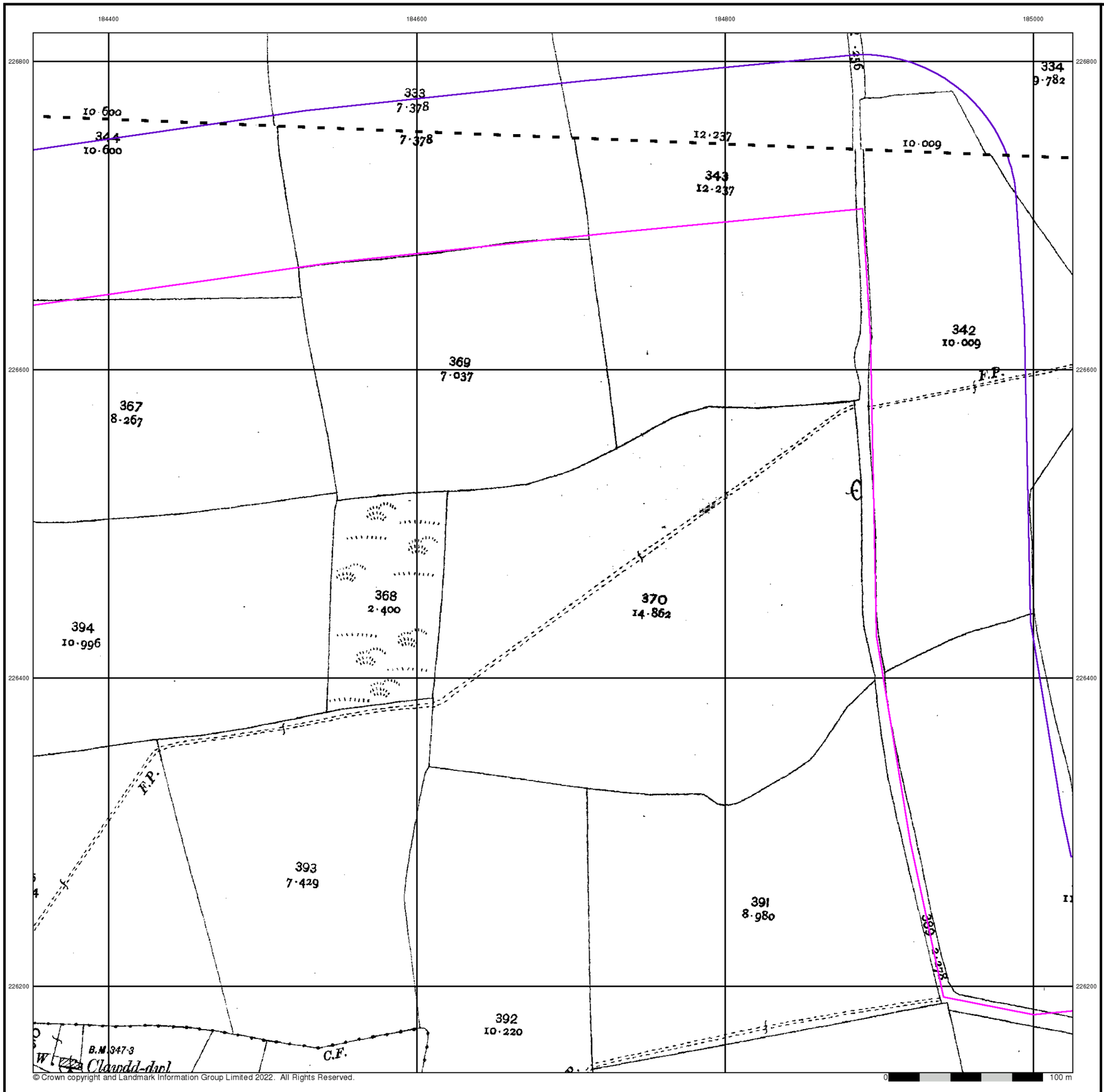
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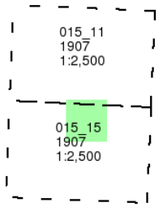
Pembrokeshire

Published 1907

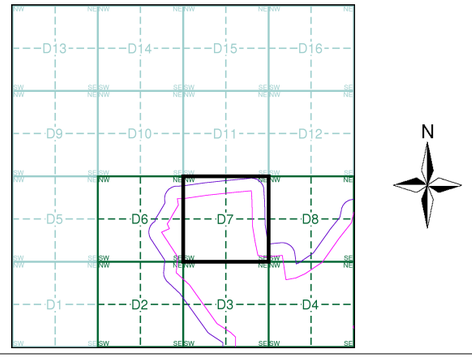
Source map scale - 1:2,500

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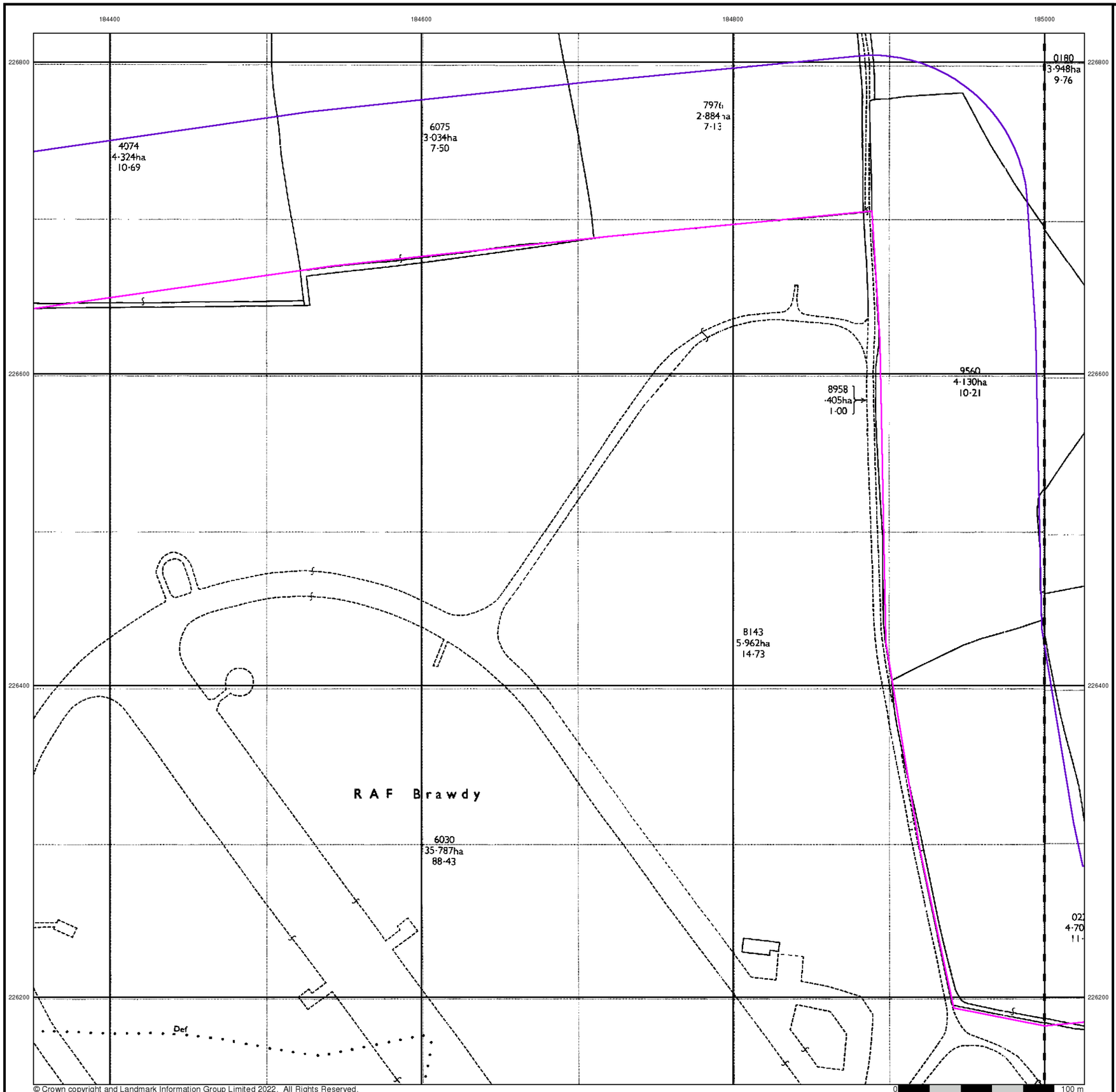
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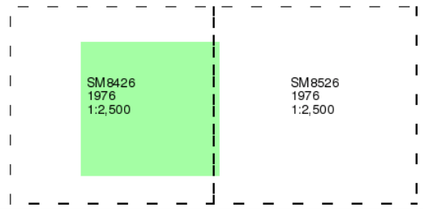
Ordnance Survey Plan

Published 1976

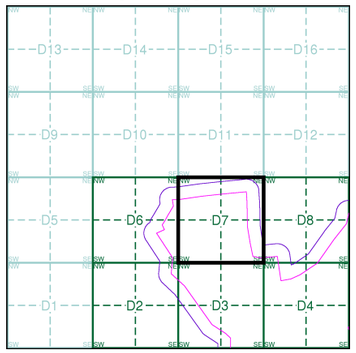
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D7



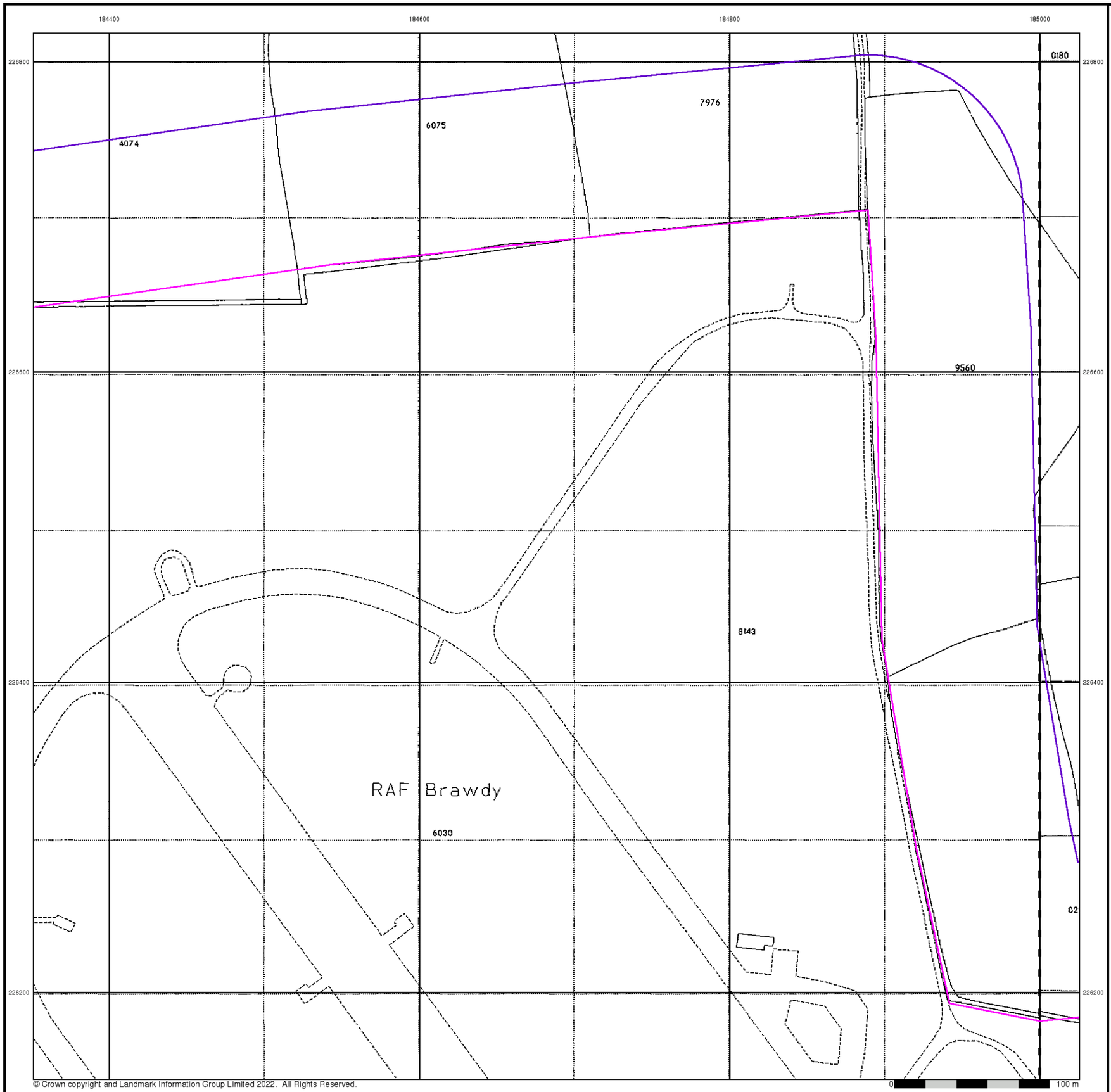
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	184520, 226520
Slice:	D
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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SWECO

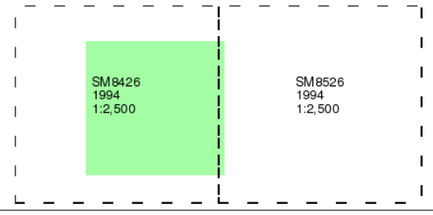
Large-Scale National Grid Data

Published 1994

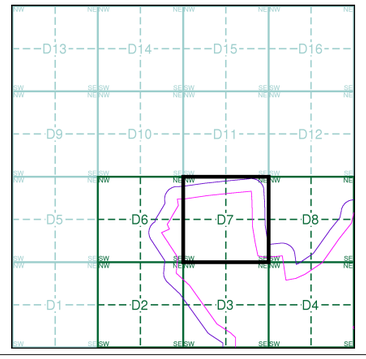
Source map scale - 1:2,500

'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 D7



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Site Details

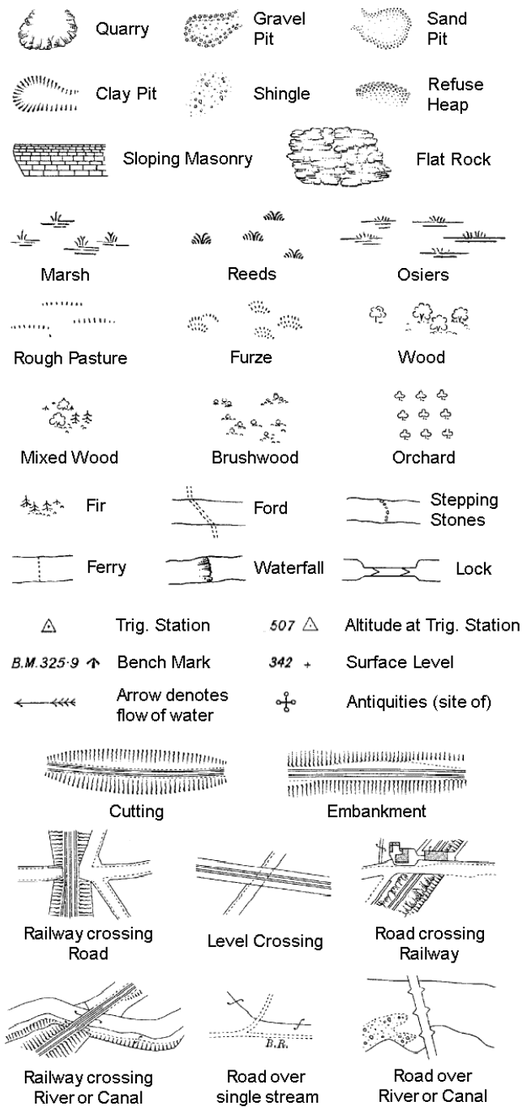
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

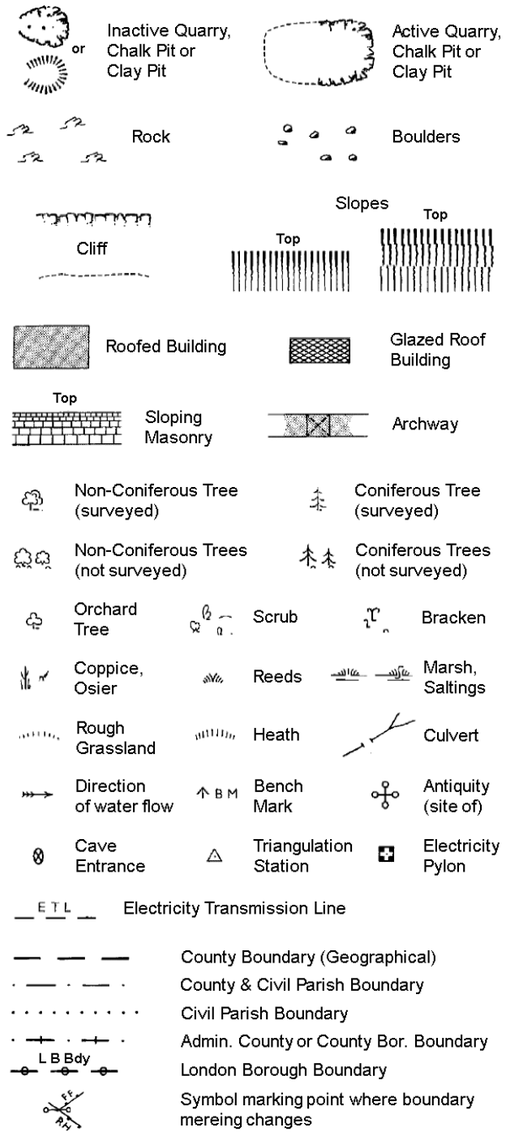
Administrative County & Civil Parish Boundary

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	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

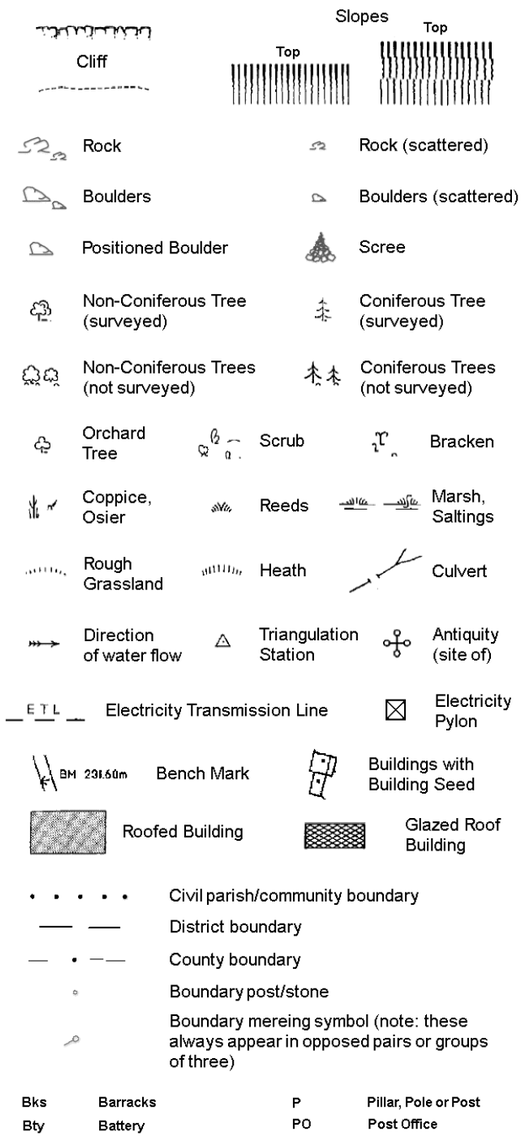
Admin. County or County Bor. Boundary

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)

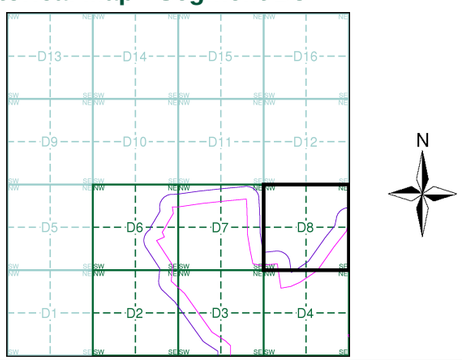
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1976	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment D8



Order Details

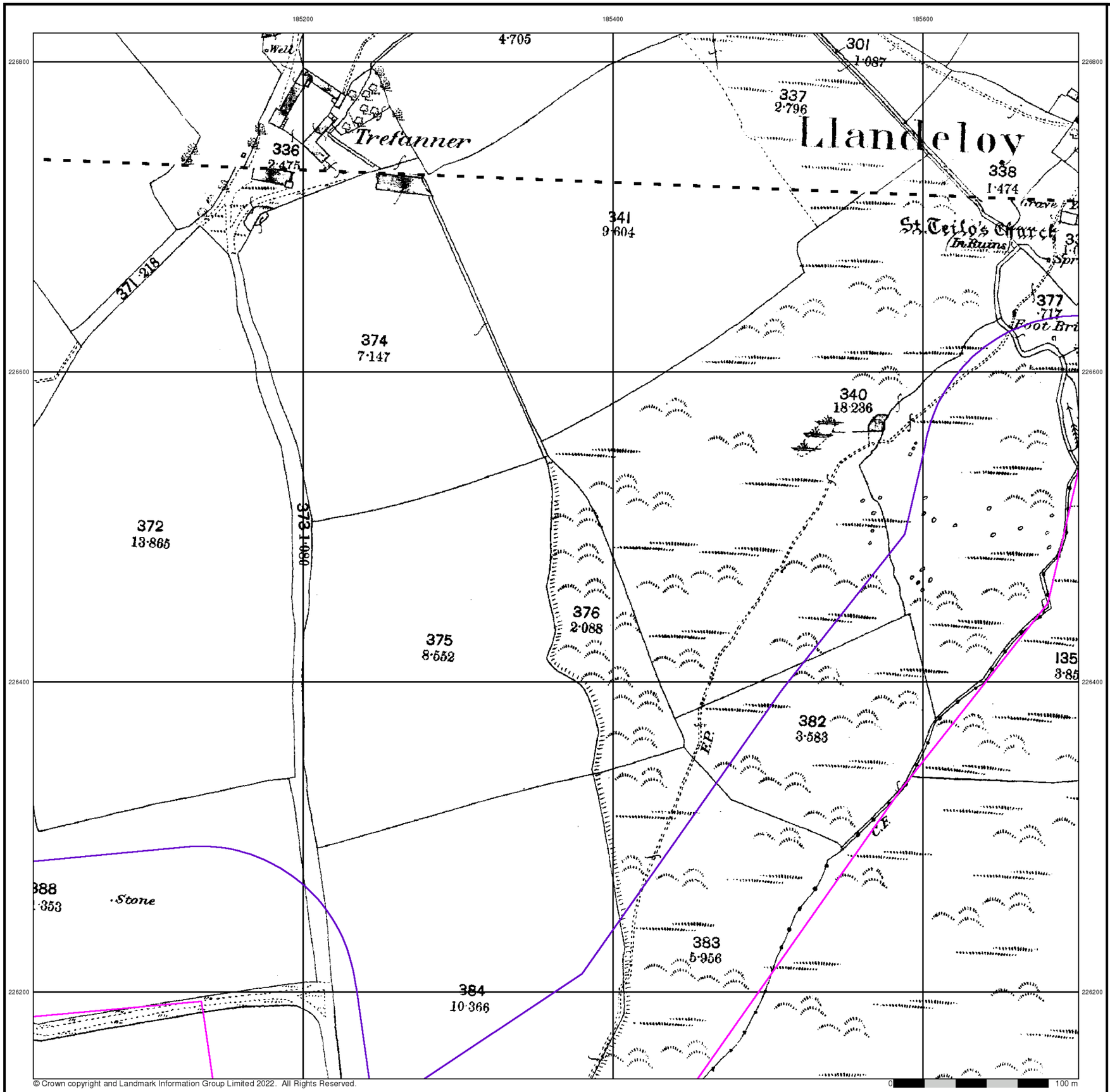
Order Number: 305022956_1_1
Customer Ref: 65208061
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Slice: D
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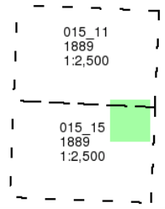
Pembrokeshire

Published 1889

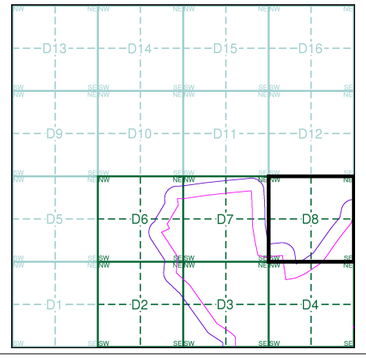
Source map scale - 1:2,500

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 D8



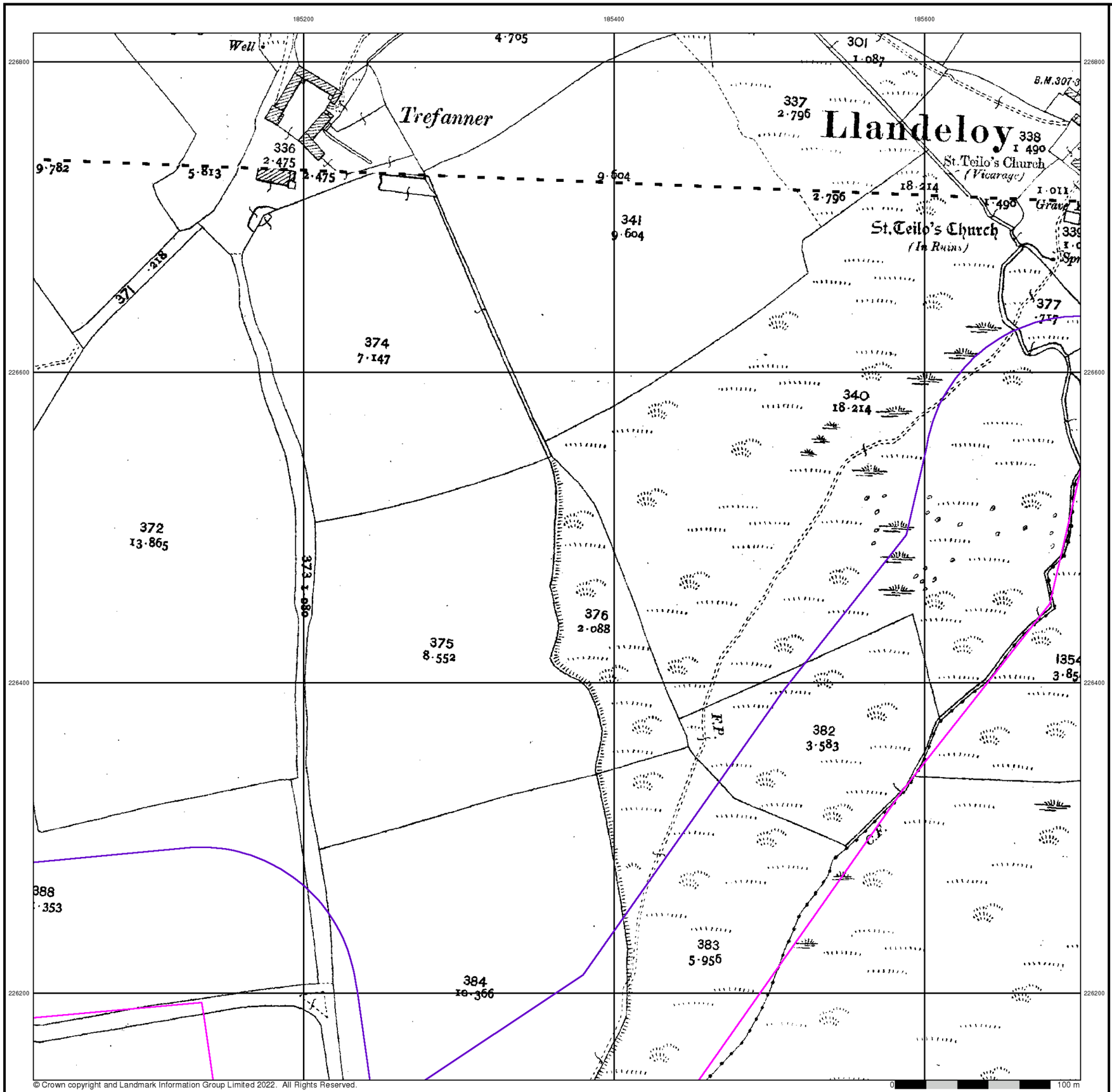
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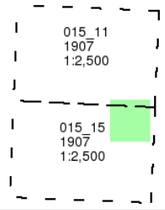
Pembrokeshire

Published 1907

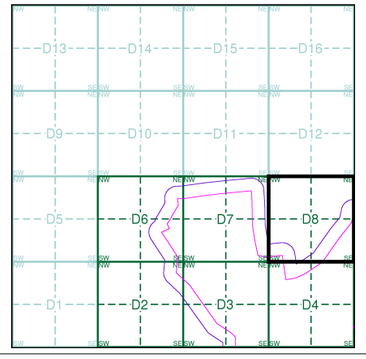
Source map scale - 1:2,500

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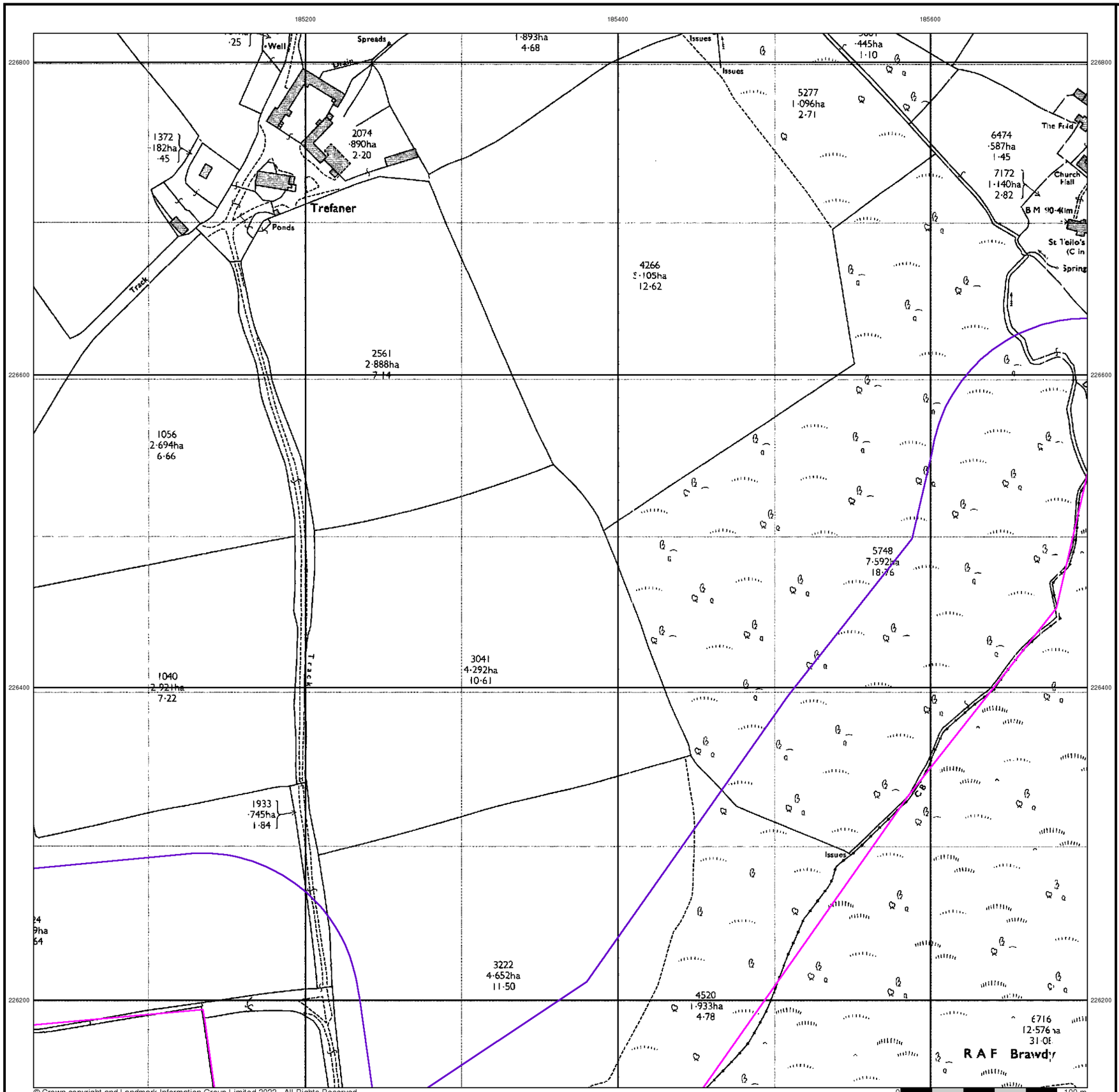
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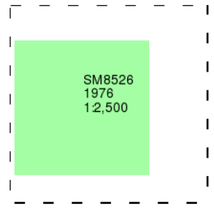
Ordnance Survey Plan

Published 1976

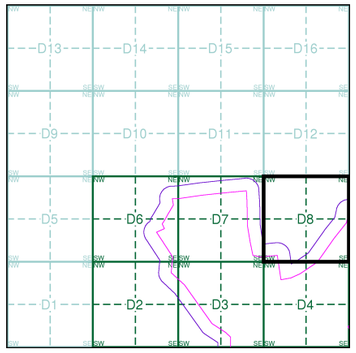
Source map scale - 1:2,500

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Historical Map - Segment D8



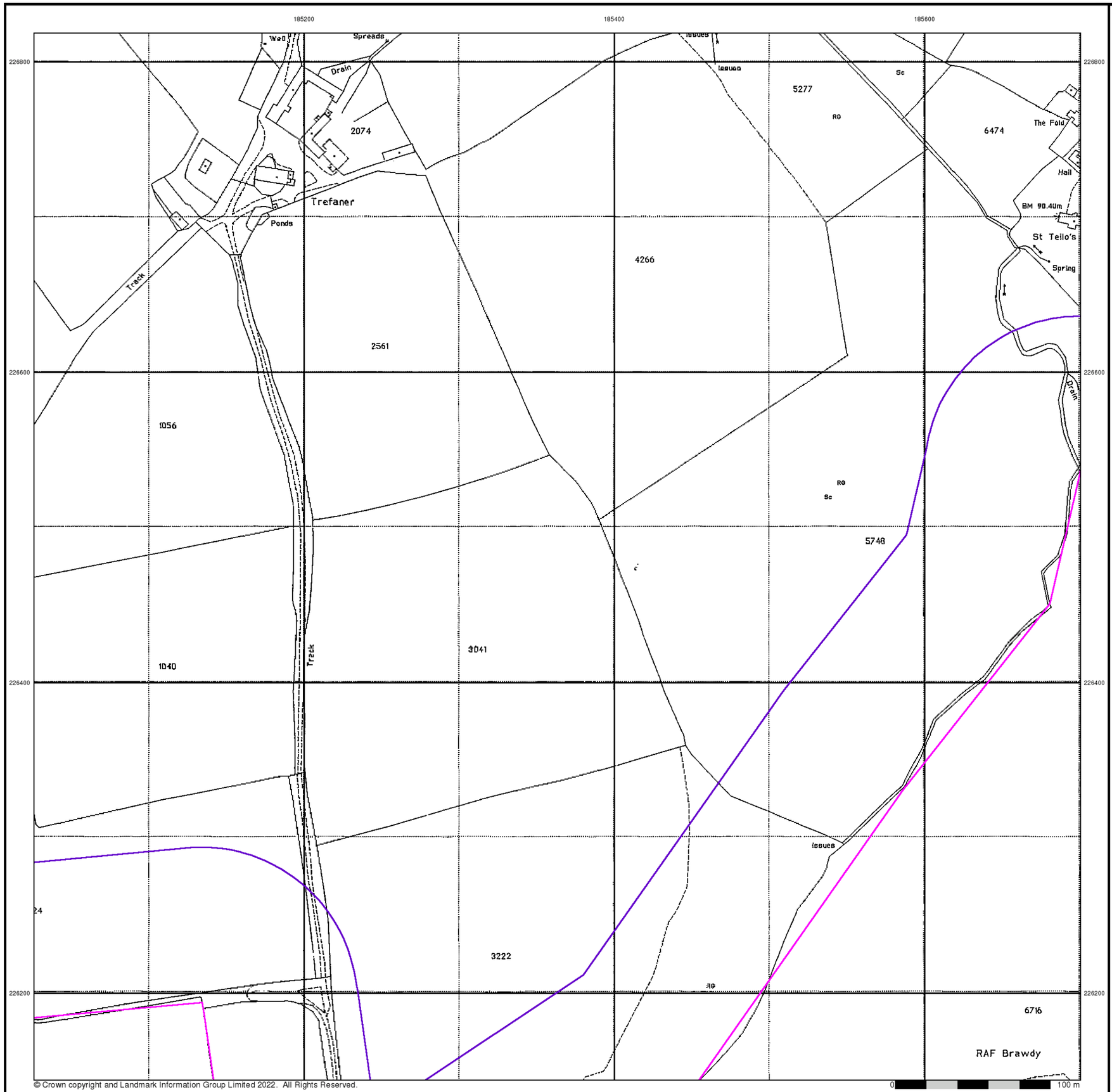
Order Details

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Customer Ref:	65208061
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Slice:	D
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SWECO

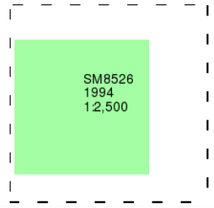
Large-Scale National Grid Data

Published 1994

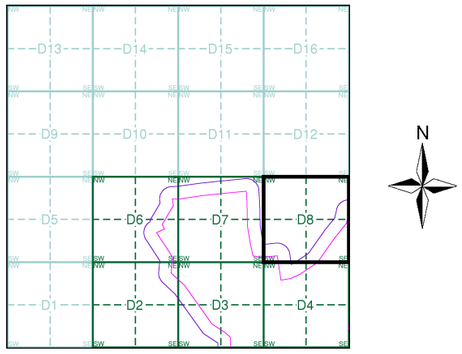
Source map scale - 1:2,500

'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 D8



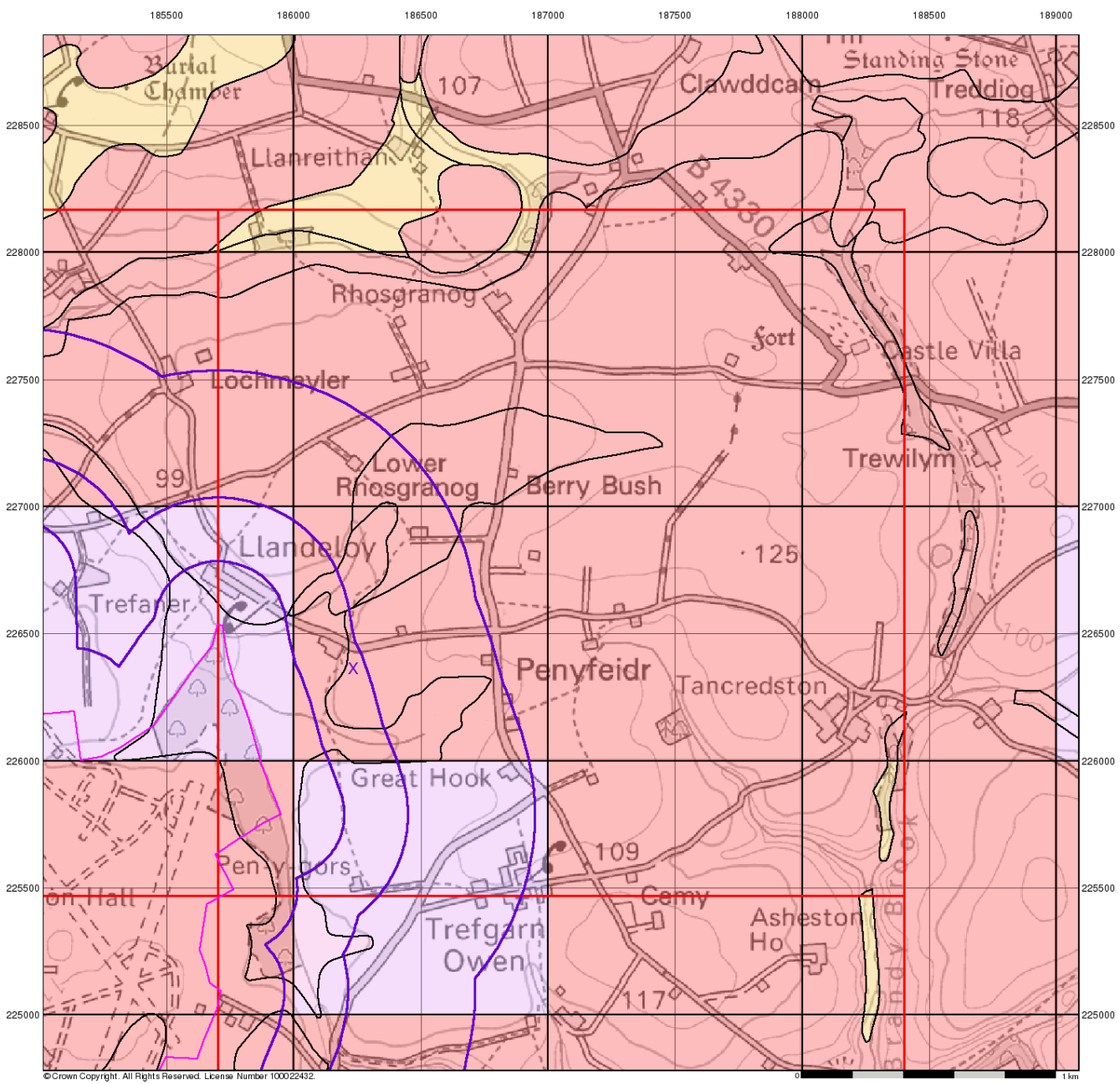
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Groundwater Vulnerability

General

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

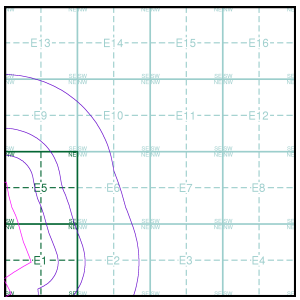
Agency and Hydrological

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 E



Order Details

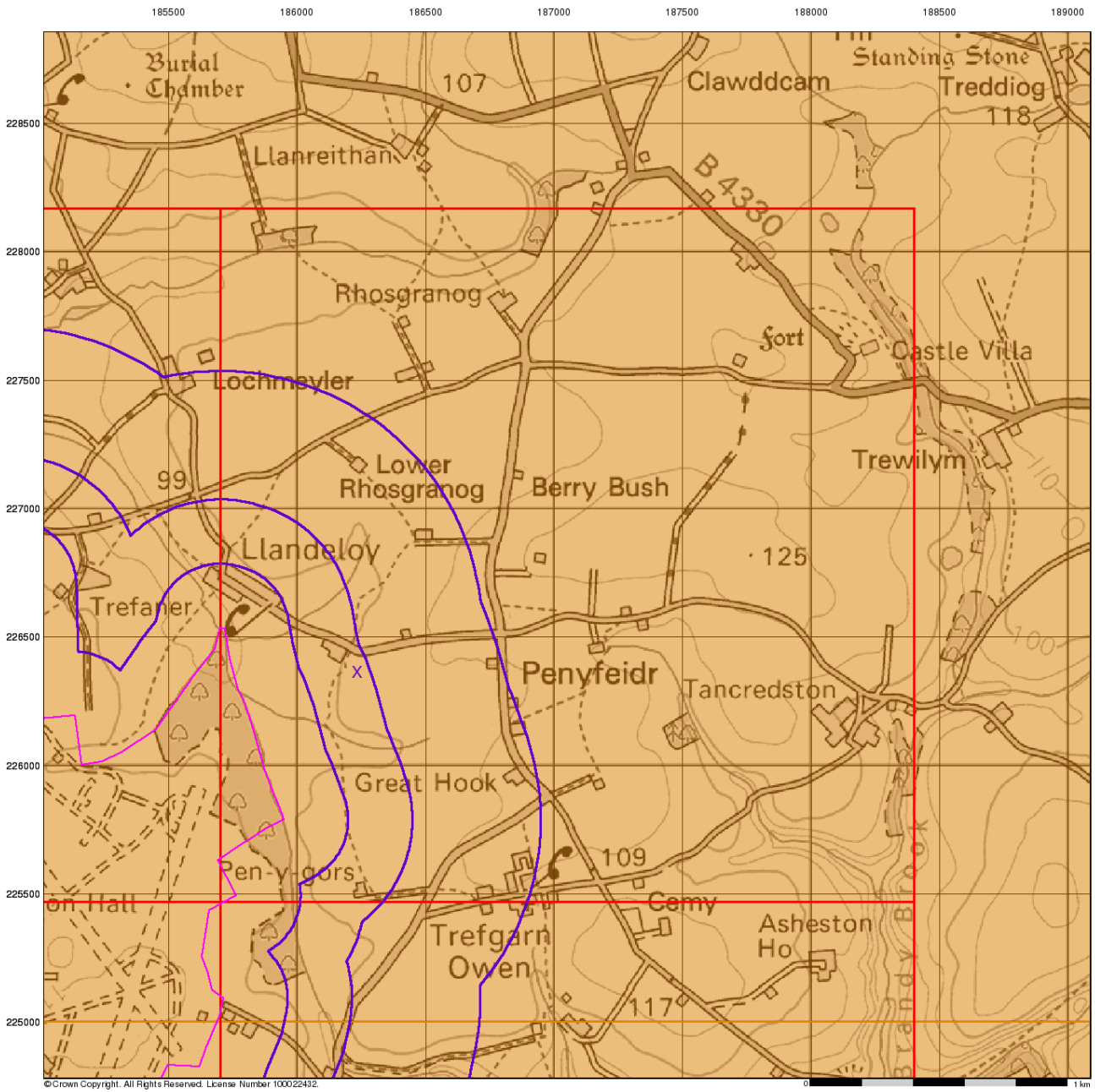
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186230, 226360
Slice:	E
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

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Bedrock Aquifer Designation

General

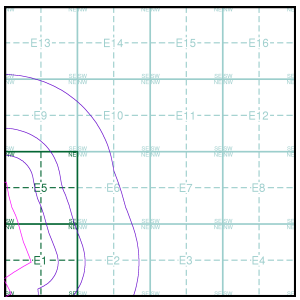
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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 E



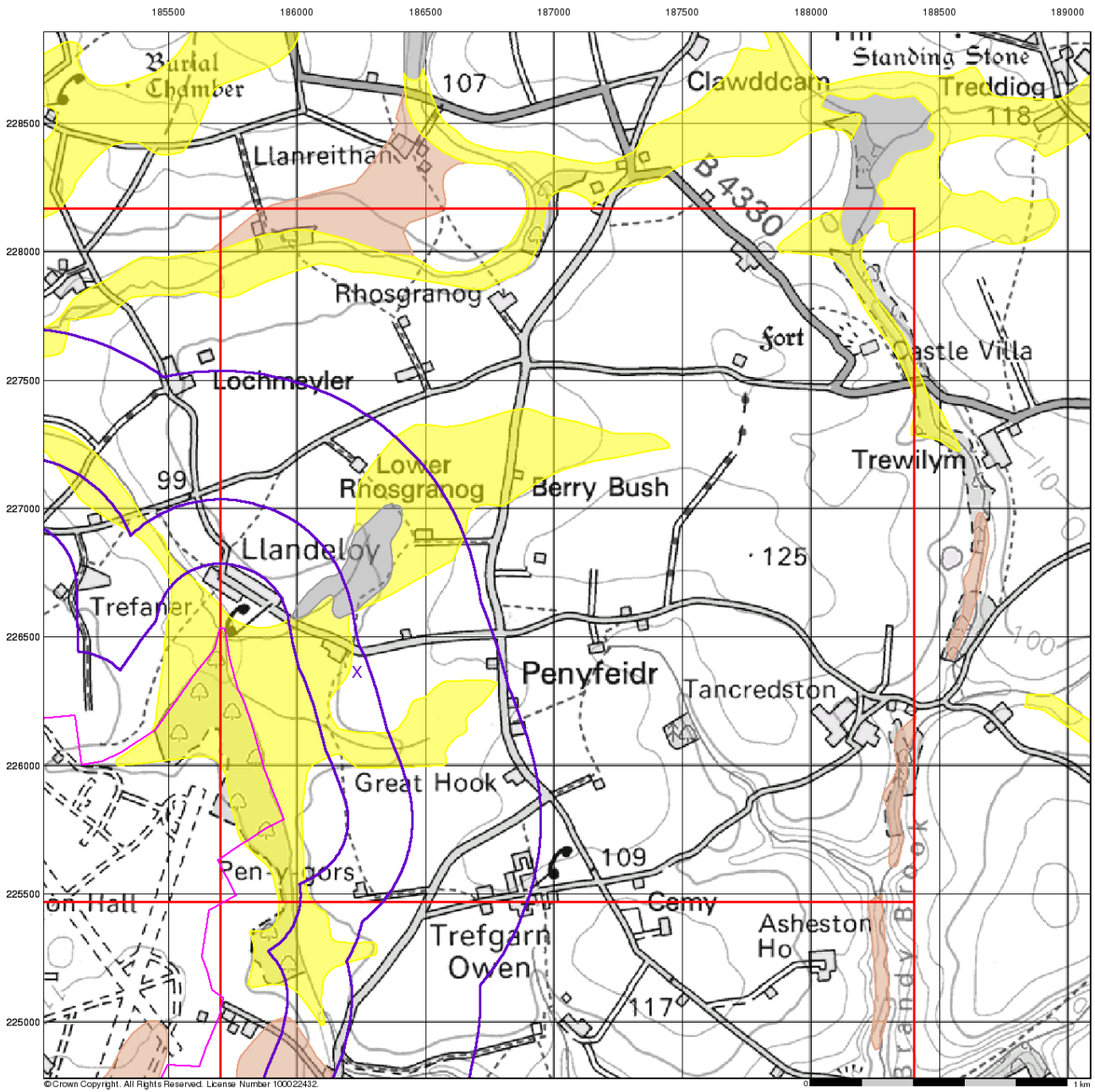
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186230, 226360
Slice:	E
Site Area (Ha):	308.46
Search Buffer (m):	1000

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Superficial Aquifer Designation

General

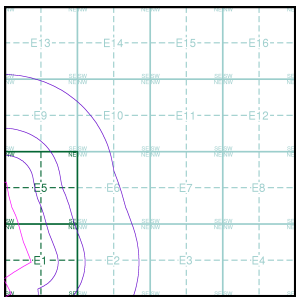
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice E



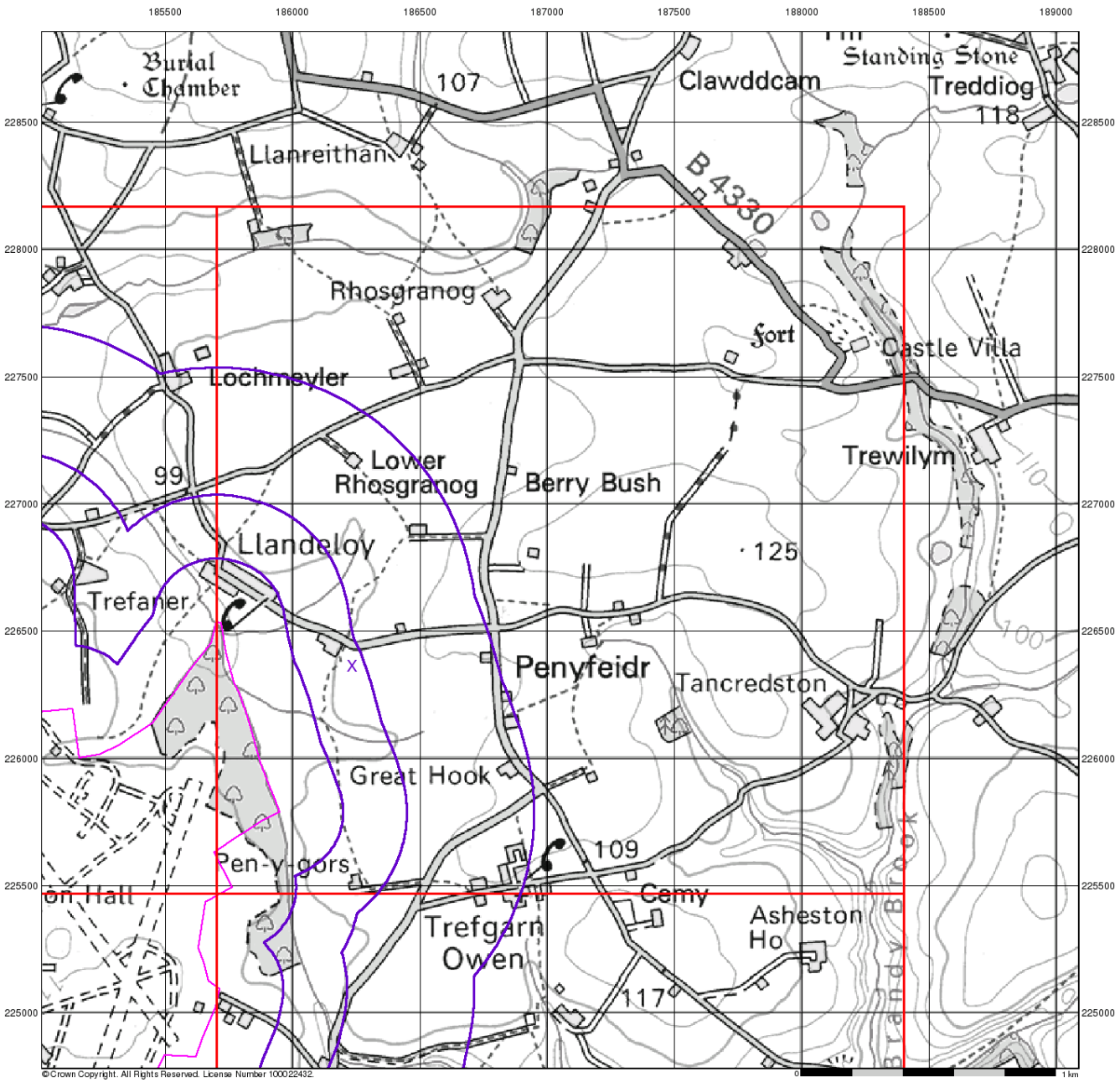
Order Details

Order Number:	305022956_1_1
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Source Protection Zones

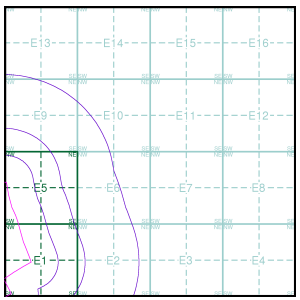
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice E



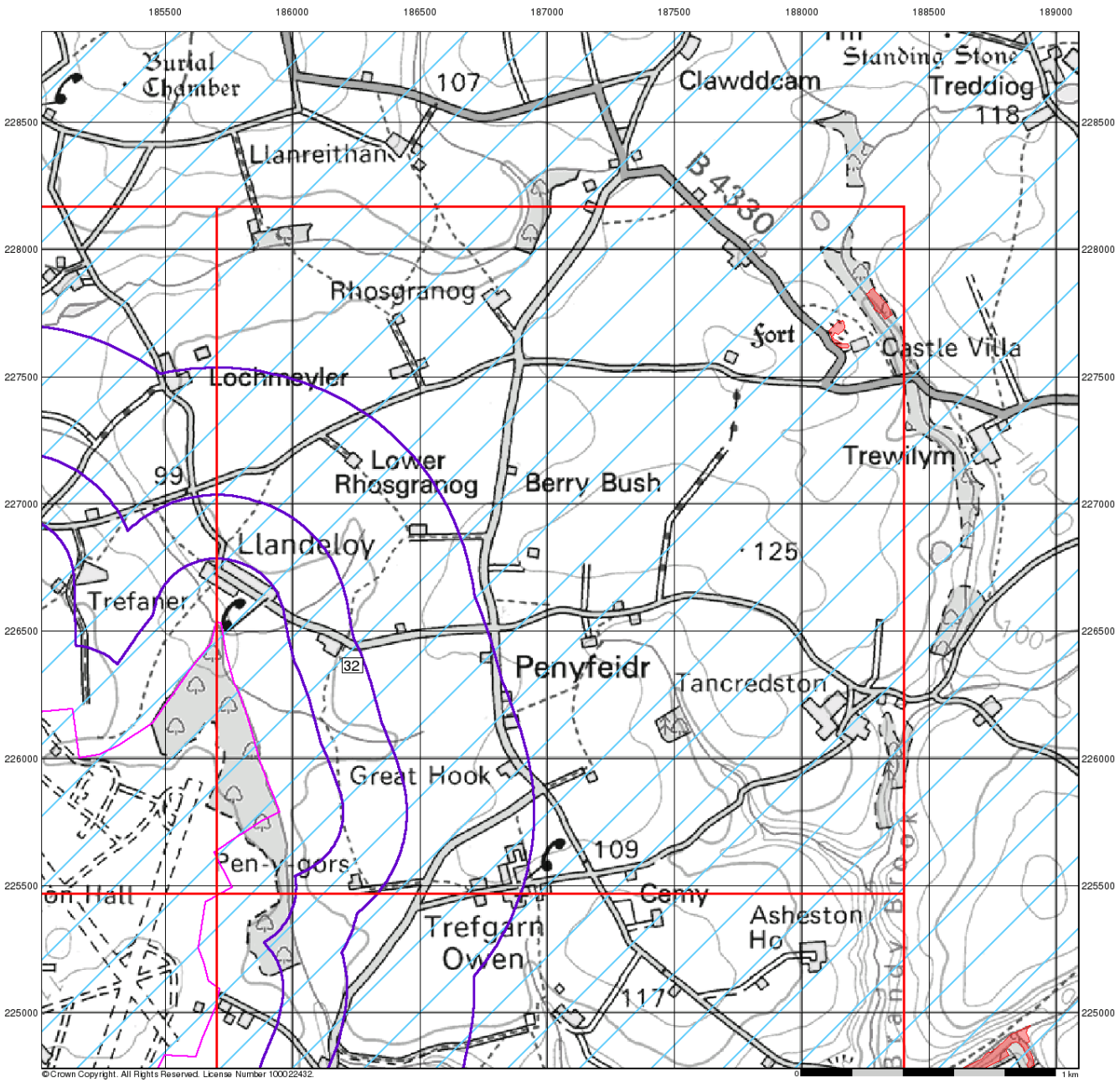
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Sensitive Land Uses

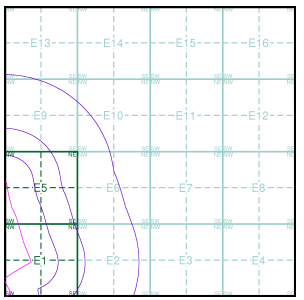
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice E



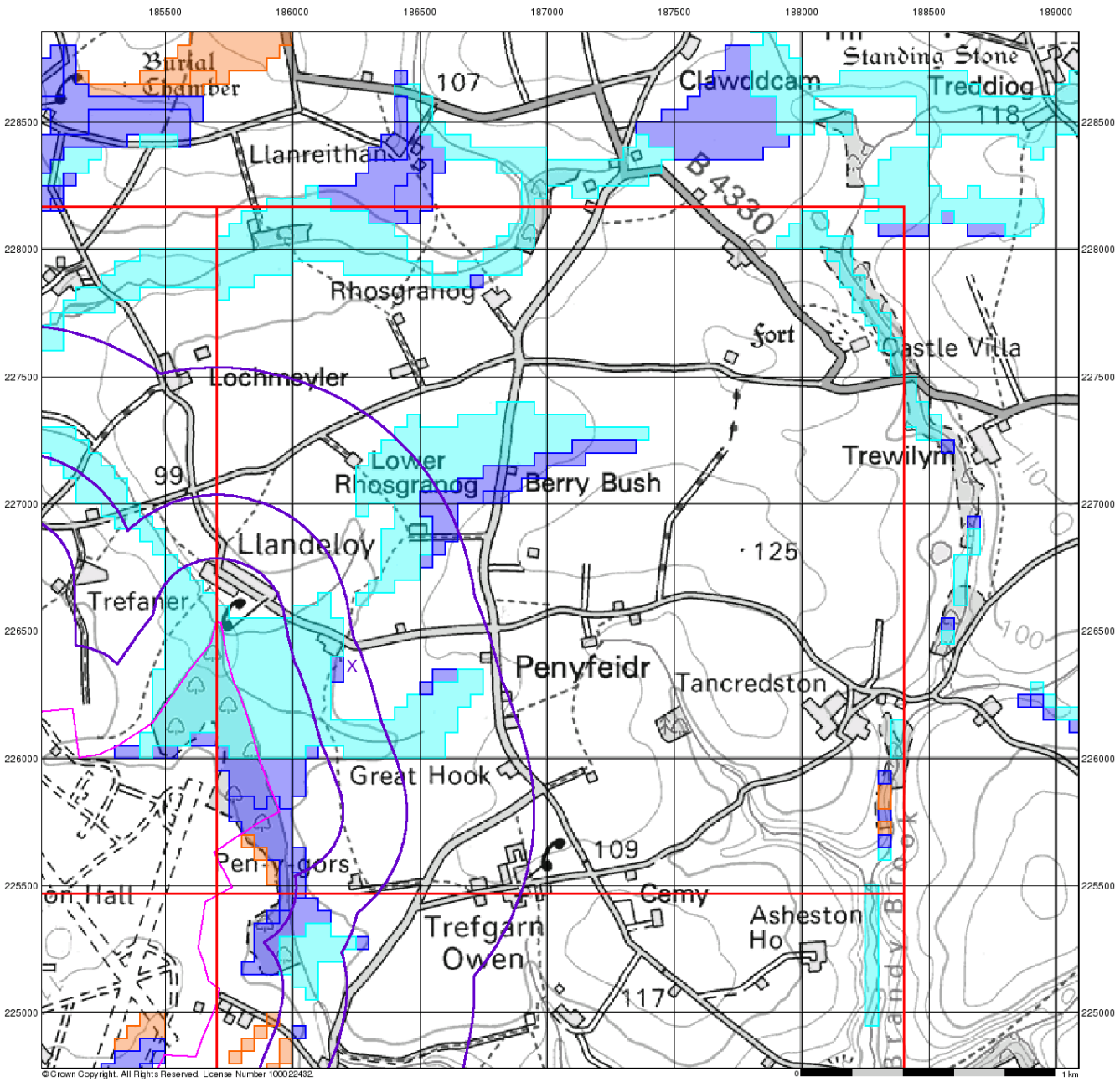
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Search Buffer (m):	1000

Site Details

Cawdor site

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



SWECO

BGS Flood GFS Data

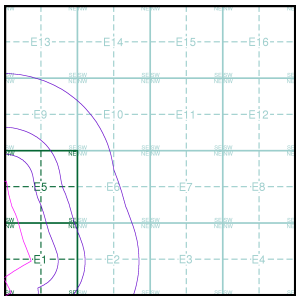
General

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 E



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186230, 226360
Slice:	E
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
305022956_1_1

Customer Reference:
65208061

National Grid Reference:
186230, 226360

Slice:
E

Site Area (Ha):
308.46

Search Buffer (m):
1000

Site Details:

Cawdor site

Client Details:

Sweco Services UK Ltd
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

SWECO

Contents

Report Section	Page Number
Summary	-
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Introduction

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

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Report Version v53.0

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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 2				2
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2	Yes			
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 2	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 5	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences				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 5	5	6	2	13

SWECO

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 9	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 10	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 10			2	
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	pg 10	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 10	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
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
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 10	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 11	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 11	Yes	n/a	n/a	n/a

SWECO

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 12				1
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 13	1			
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	(SW)	0	1	185700 226100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	185500 224850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	185450 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	E1NE (SW)	0	1	186050 226000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	E1NW (SW)	0	1	185950 225850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	0	1	185500 225000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	185400 226050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	185550 226050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	E5SE (NW)	0	1	186200 226400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	0	1	185500 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	E1SW (SW)	3	1	185850 225700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	E1SW (SW)	72	1	185900 225650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	103	1	186100 225450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	115	1	185800 224850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	E1SW (S)	138	1	185950 225600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	143	1	185850 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	E1SE (S)	148	1	186050 225650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	167	1	185950 225400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	169	1	185900 224950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	E1NE (SW)	170	1	186100 226050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	203	1	185950 225000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(S)	244	1	186150 225350

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	(S)	274	1	185950 224800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	281	1	186000 224900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	311	1	186050 224950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(NW)	332	1	185500 226800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	E5SE (W)	353	1	186200 226365
1	**Discharge Consents** Operator: Evans T A N Property Type: Undefined Or Other Location: Parcgwyn Llandeloy Haverfordwest Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bn0030501 Permit Version: 1 Effective Date: 13th February 1970 Issued Date: 13th February 1970 Revocation Date: 22nd April 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: To Land Nr. Selfach **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	E6SE (E)	942	2	186800 226200
2	**Discharge Consents** Operator: Jones B Property Type: Domestic Property (Single) Location: Caeronnen Trefgarn Owen Brawdy Authority: Natural Resources Wales Catchment Area: Brandy Brook Reference: Bp0131801 Permit Version: 1 Effective Date: 21st August 1989 Issued Date: 21st August 1989 Revocation Date: 7th July 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: To Land **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	E2SE (SE)	971	2	186900 225600
	Nearest Surface Water Feature	E5SW (W)	0	-	185768 226304
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	E1NW (SW)	0	2	185705 226000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(W)	0	2	185480 226407
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	E1NW (SW)	0	2	185706 225999
	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: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SW)	0	2	185421 225000
	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: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(S)	0	2	185906 225000

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, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SW)	0	2	185461 224999
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	E5SW (W)	0	2	186000 226365
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	E1NW (SW)	0	2	186000 226000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	(SW)	0	2	185458 225000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	E5SE (E)	0	2	186233 226365
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	(S)	0	2	186233 225000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	E5SE (W)	0	2	186207 226375
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(SW)	0	2	185458 225000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(SW)	0	2	185461 224999
	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	E5NW (W)	0	2	185784 226510
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
3	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 203.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5SW (W)	0	3	185765 226308
4	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5NW (W)	0	3	185730 226511
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 263.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5NW (NW)	0	3	185963 226550
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 558.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5SW (W)	0	3	185809 226215
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5SW (W)	0	3	185844 226274
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 702.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5SE (SW)	58	3	186134 226152
9	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5SW (W)	58	3	185904 226338

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 242.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E1SW (S)	239	3	186001 225513
11	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5NW (NW)	244	3	185990 226570
12	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5NW (NW)	244	3	185991 226575
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 119.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5SE (NW)	246	3	186084 226461
14	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5NW (NW)	277	3	186000 226580
15	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 242.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5NE (NW)	286	3	186067 226628
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 139.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5NE (N)	511	3	186196 226718
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E5NE (N)	511	3	186193 226718
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 253.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E9SE (N)	605	3	186235 226846

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E9SE (N)	605	3	186235 226846
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 193.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E2NW (SE)	633	3	186497 226128
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 206.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E2NW (SE)	633	3	186497 226128
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E9SE (N)	654	3	186262 226893
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E9SE (N)	654	3	186262 226893
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E2NW (SE)	662	3	186588 225957
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E2NW (SE)	664	3	186591 225953
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E2NW (SE)	701	3	186638 225912
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E2NW (SE)	705	3	186642 225911

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 186.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: St Davids Head and St Brides North Primacy: 1	E9SE (N)	866	3	186362 227110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Pembrokeshire County Council - Has supplied landfill data		0	4	186233 226365

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Llanvirn Rocks (Undifferentiated)	E5NE (NW)	0	1	186144 226569
	BGS 1:625,000 Solid Geology Description: Unnamed Extrusive Rocks, Ordovician	E5NW (NW)	0	1	186001 226739
	BGS 1:625,000 Solid Geology Description: Upper Cambrian, Including Tremadoc	E5SE (E)	0	1	186233 226365
29	**BGS Recorded Mineral Sites** Site Name: Vanley Gravel Pit Location: Llandeloy, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89676 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cambrian Geology: Lingula Flags Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	E1NE (S)	279	1	186183 225958
30	**BGS Recorded Mineral Sites** Site Name: Rhos-Graeanog-Isaf Location: Llandeloy, St David'S, Pembrokeshire Source: British Geological Survey, National Geoscience Information Service Reference: 89670 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Ordovician Geology: Ogof Hen Formation Commodity: Igneous and Metamorphic Rock Positional Accuracy: Located by supplier to within 10m	E9SW (NW)	436	1	186009 226855
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	E5SE (E)	0	1	186233 226365
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E5SE (E)	0	1	186233 226365
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E5SE (E)	0	1	186233 226365
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E5SE (E)	0	1	186233 226365
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E5SE (E)	0	1	186233 226365
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E5SE (W)	0	1	186207 226375
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E1NW (SW)	0	1	185706 225999
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E5SE (E)	49	1	186233 226365
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E1NW (SW)	0	1	185706 225999
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E5SE (W)	0	1	186207 226375

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E5SE (E)	49	1	186233 226365
	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	E5NE (N)	0	1	186150 226575
	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	E5SE (E)	0	1	186233 226365
	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	E5NE (N)	0	1	186150 226575
	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	E5SE (E)	0	1	186233 226365

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**Contemporary Trade Directory Entries** Name: M M Carter Location: Cartref, Trefgarn-Owen, Haverfordwest, Dyfed, SA62 6NE Classification: Lawnmowers & Garden Machinery - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	E2SE (SE)	978	-	186884 225508

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	**Environmentally Sensitive Areas** Name: Preseli (decommissioned) Multiple Areas: Y Total Area (m2): 1187932672 Source: The National Assembly for Wales, GI Services (Department of Planning & Countryside)	E5SE (E)	0	5	186233 226365

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	June 2020	Annually
Pembrokeshire County Council - Public Protection Division	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	October 2022	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	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Local Authority Pollution Prevention and Controls		
Pembrokeshire County Council - Environmental Health Department	November 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Pembrokeshire County Council - Environmental Health Department	November 2015	Variable
Nearest Surface Water Feature		
Ordnance Survey	October 2022	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
Substantiated Pollution Incident Register		
Environment Agency Wales - South West Area	January 2021	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Abstractions		
Environment Agency - Welsh Region	October 2022	Quarterly
Natural Resources Wales	October 2022	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	Quarterly
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Source Protection Zones		
Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	September 2020	

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	October 2022	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
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	July 2019	Quarterly
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 West Area	October 2021 October 2022	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South West Area Natural Resources Wales	July 2021 July 2022	Quarterly Quarterly
Local Authority Landfill Coverage Pembrokeshire County Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites Pembrokeshire County Council - Environmental Health Department	October 2018	
Registered Landfill Sites Environment Agency Wales - South West Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South West Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South West Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Pembrokeshire County Council - Planning Department	October 2015	Variable
Planning Hazardous Substance Consents Pembrokeshire County Council - Planning Department	October 2015	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	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	March 2014	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	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt Pembrokeshire County Council	July 2022	Quarterly
Areas of Unadopted Green Belt Pembrokeshire County Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Pembrokeshire County Council	August 2018	Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	February 2022	Bi-Annually
National Parks Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 July 2019	Bi-Annually
Ramsar Sites Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

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	

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.gov.uk
4	**Pembrokeshire County Council - Environmental Health Department** Public Protection Division, Pembrokeshire County Council, County Hall, Haverfordwest, Pembrokeshire, SA61 1TP	Telephone: 01437 764551 Fax: 01437 775838 Website: www.pembrokeshire.gov.uk
5	**The National Assembly for Wales - GI Services (Department of Planning & Countryside)** Yr Hen Ysgol Gymraeg, Alexandria Road, Aberystwyth, Ceredigion, SY23 1LD	Telephone: 02920 825111 Website: www.wales.gov.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

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

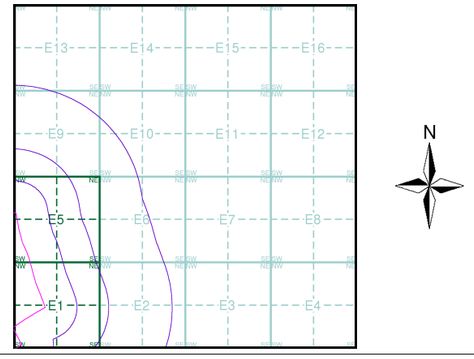
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:10,560	1888	2
Pembrokeshire	1:10,560	1908	3
Pembrokeshire	1:10,560	1953	4
Ordnance Survey Plan	1:10,000	1964	5
Ordnance Survey Plan	1:10,000	1980	6
10K Raster Mapping	1:10,000	2000	7
Street View	Variable		8

Historical Map - Slice E



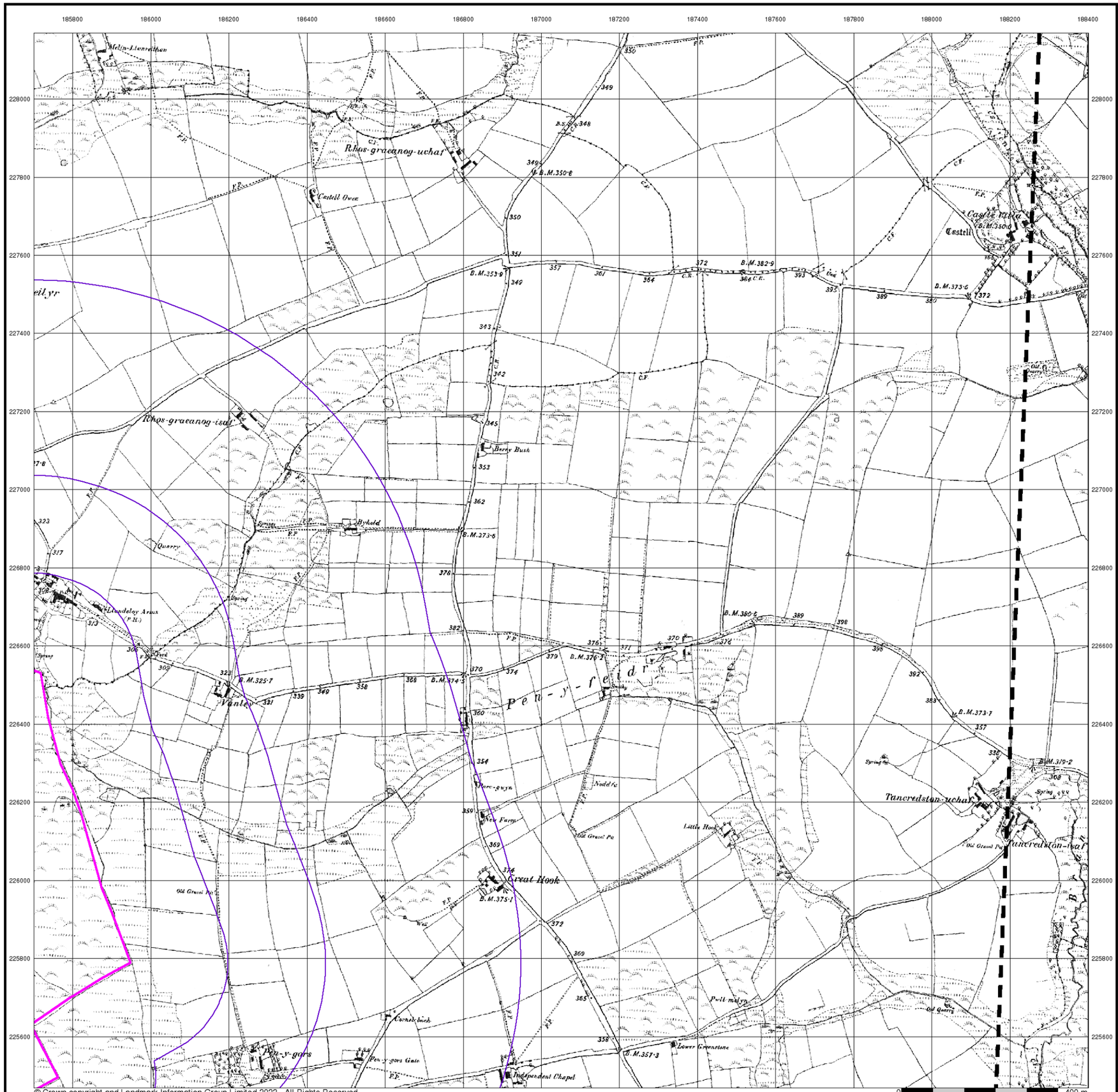
Order Details

Order Number: 305022956_1_1
Customer Ref: 65208061
National Grid Reference: 186230, 226360
Slice: E
Site Area (Ha): 308.46
Search Buffer (m): 1000

Site Details

Cawdor site

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



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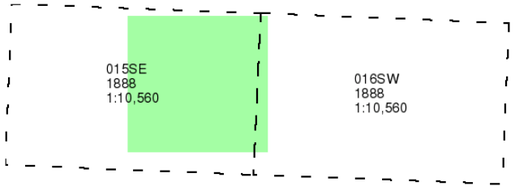
Pembrokeshire

Published 1888

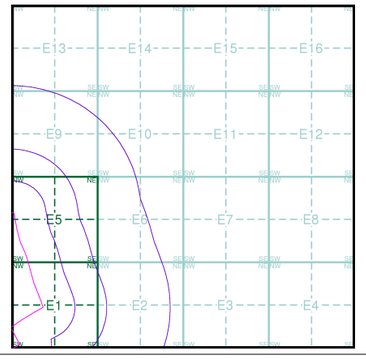
Source map scale - 1:10,560

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 E



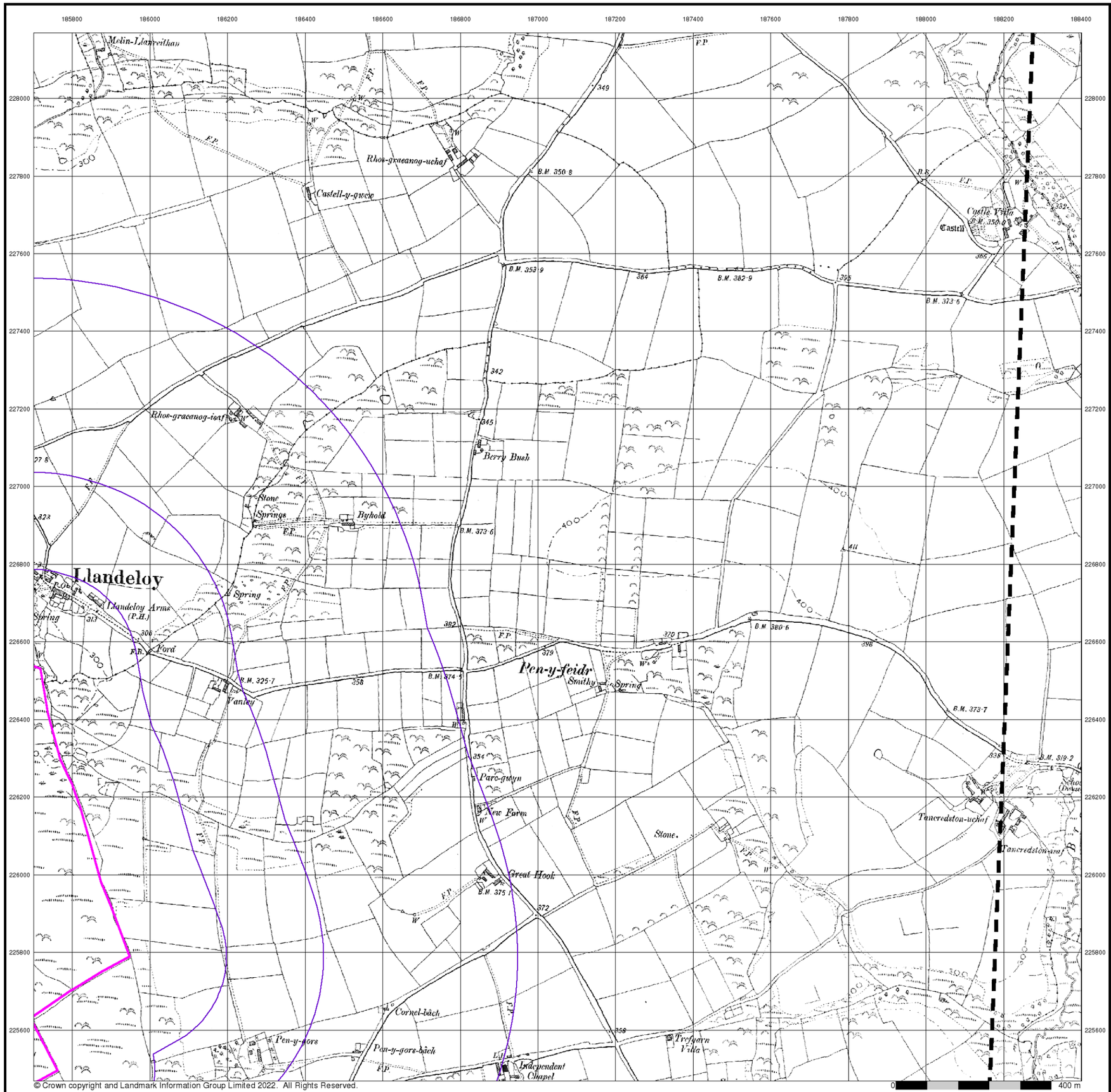
Order Details

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Customer Ref:	65208061
National Grid Reference:	186230, 226360
Slice:	E
Site Area (Ha):	308.46
Search Buffer (m):	1000

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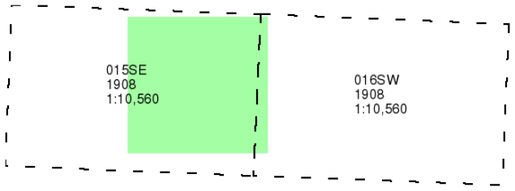
Pembrokeshire

Published 1908

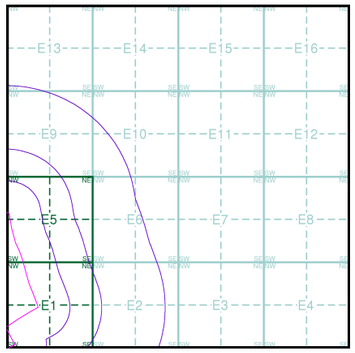
Source map scale - 1:10,560

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 E



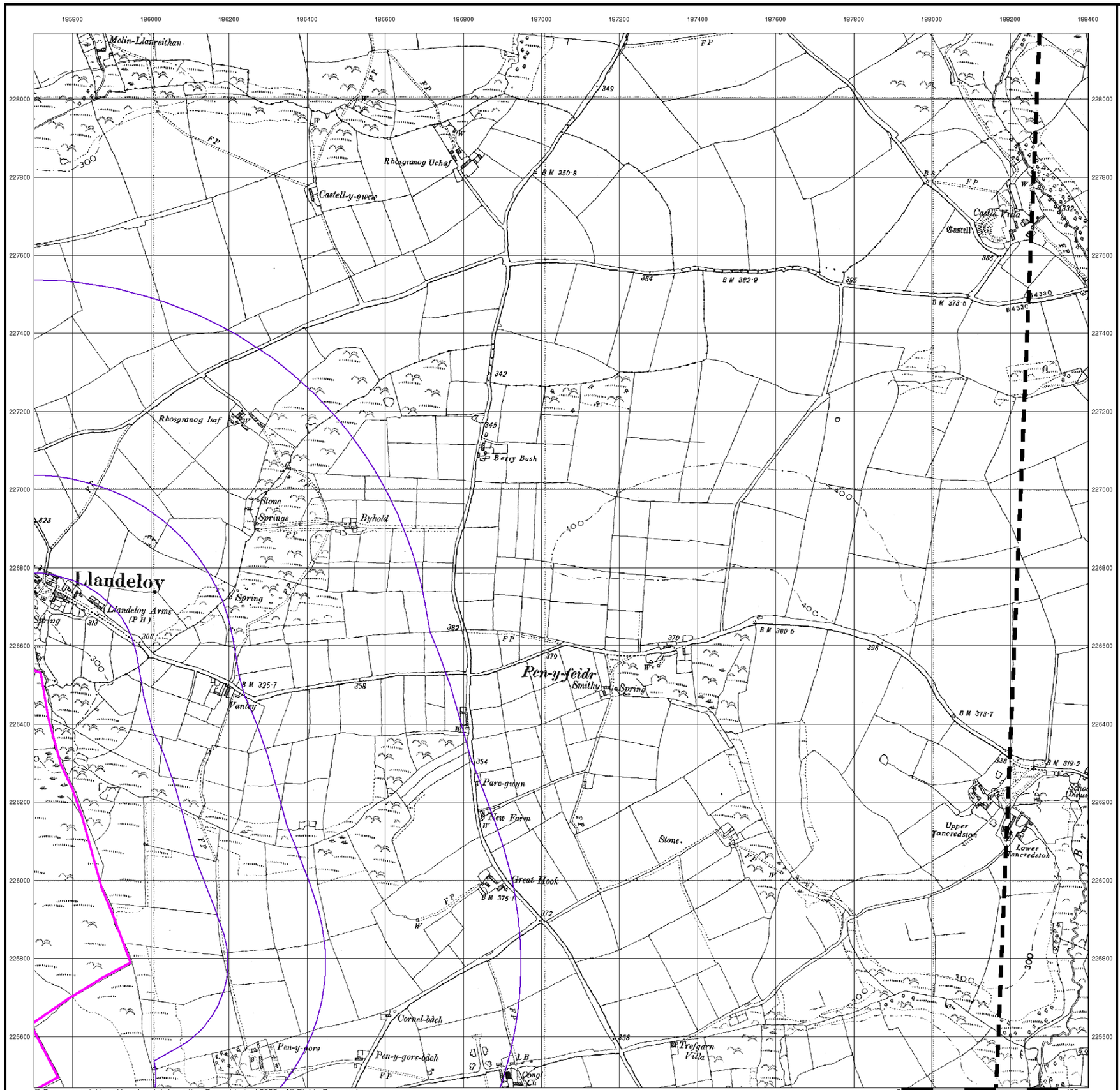
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186230, 226360
Slice:	E
Site Area (Ha):	308.46
Search Buffer (m):	1000

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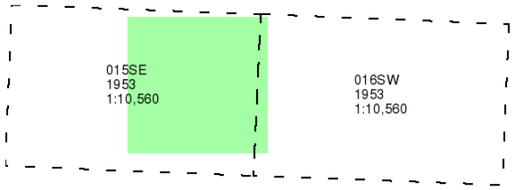
Pembrokeshire

Published 1953

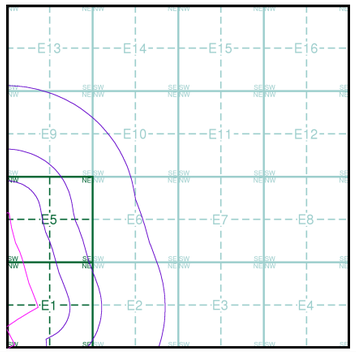
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice E



Order Details

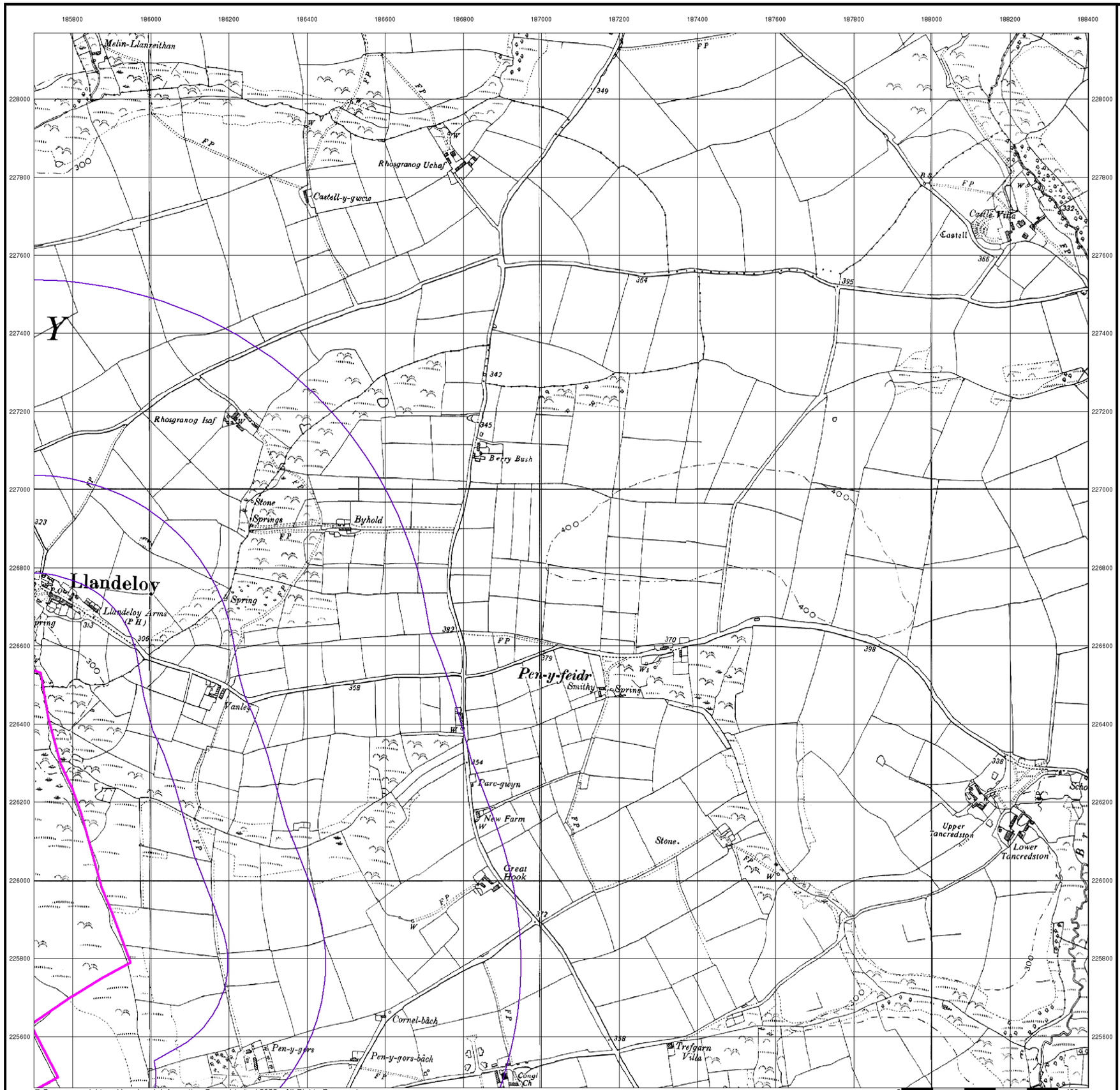
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186230, 226360
Slice:	E
Site Area (Ha):	308.46
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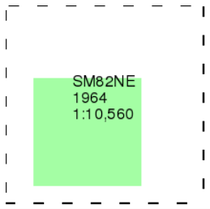
Ordnance Survey Plan

Published 1964

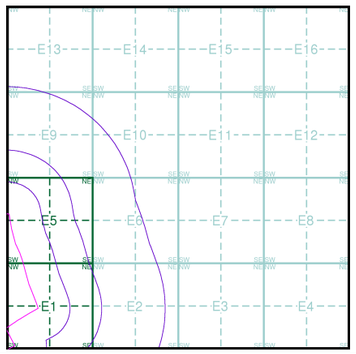
Source map scale - 1:10,000

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 E



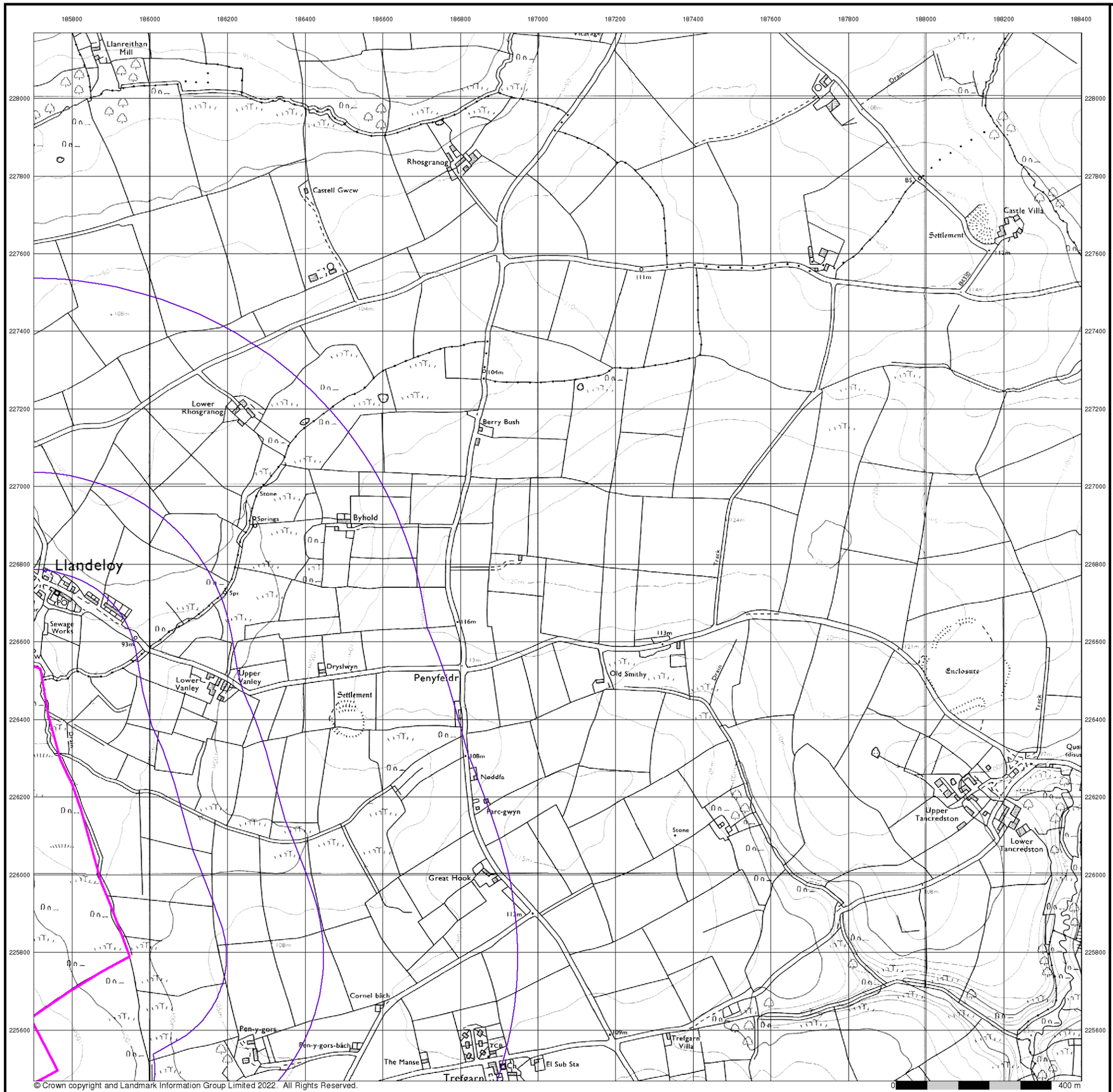
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186230, 226360
Slice:	E
Site Area (Ha):	308.46
Search Buffer (m):	1000

Site Details

Cawdor site

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



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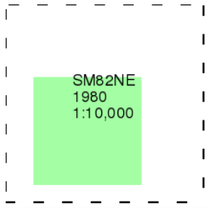
Ordnance Survey Plan

Published 1980

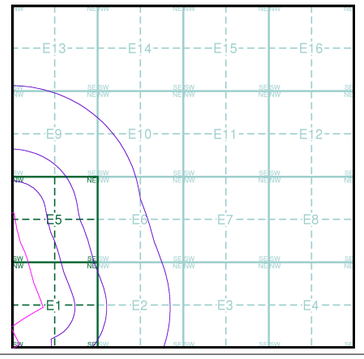
Source map scale - 1:10,000

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 E



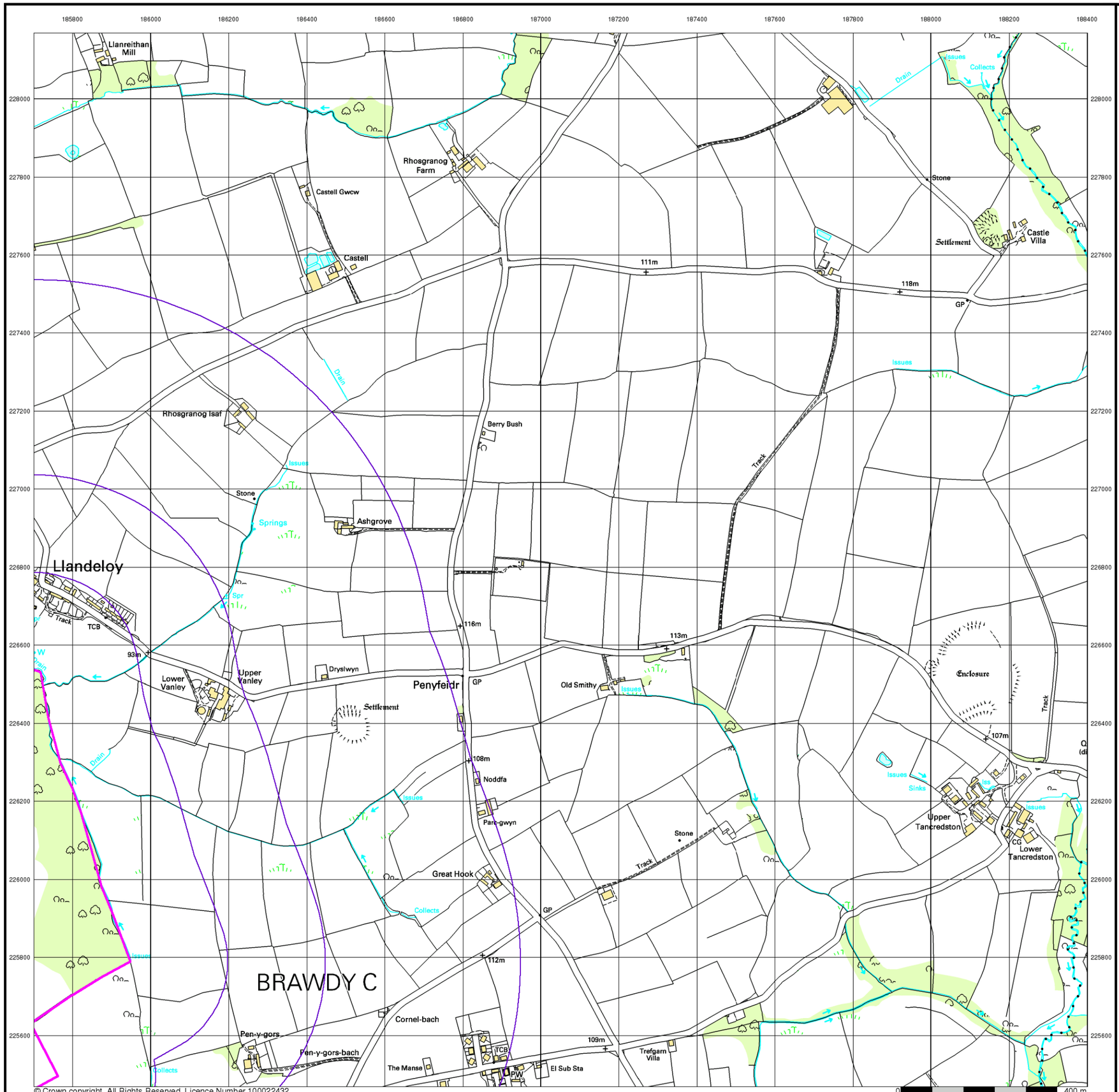
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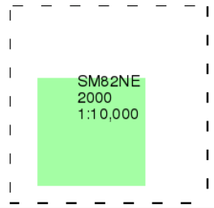
10k Raster Mapping

Published 2000

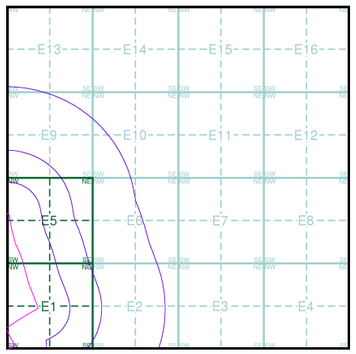
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice E



Order Details

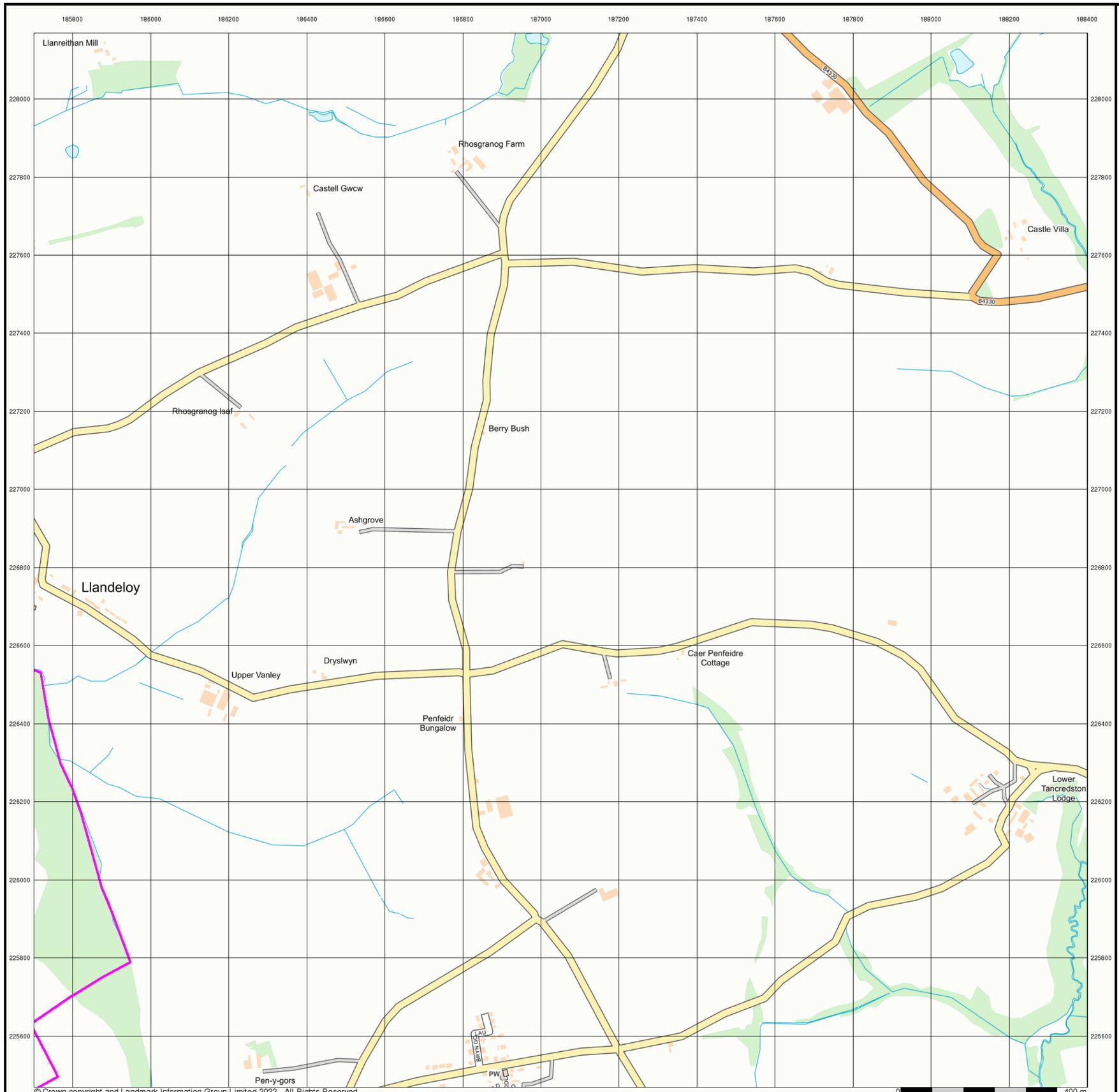
Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186230, 226360
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Street View

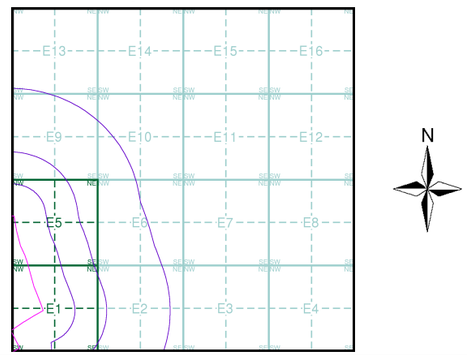
Published 2022

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice E



Order Details

Order Number:	305022956_1_1
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Site Details

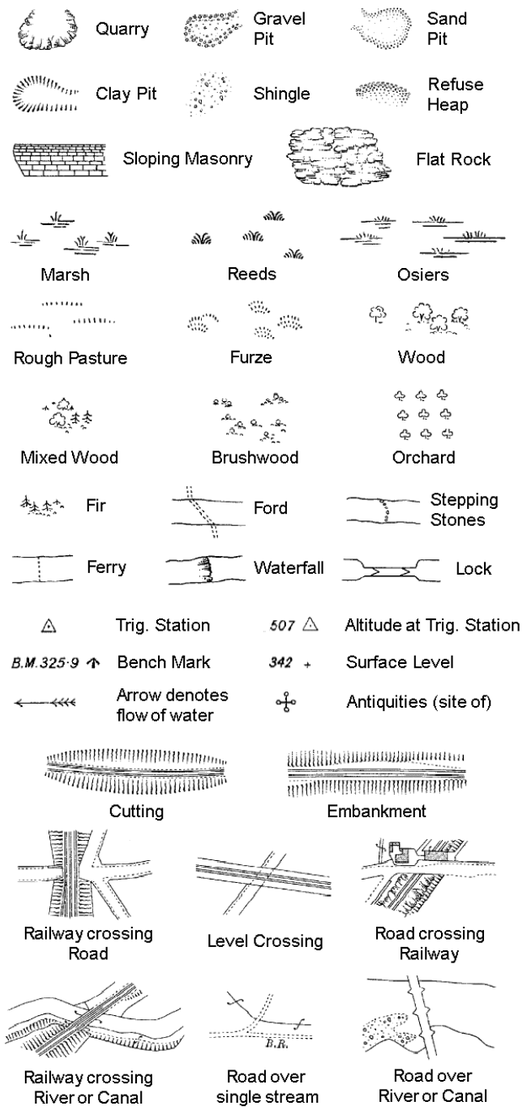
Cawdor site

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Historical Mapping Legends

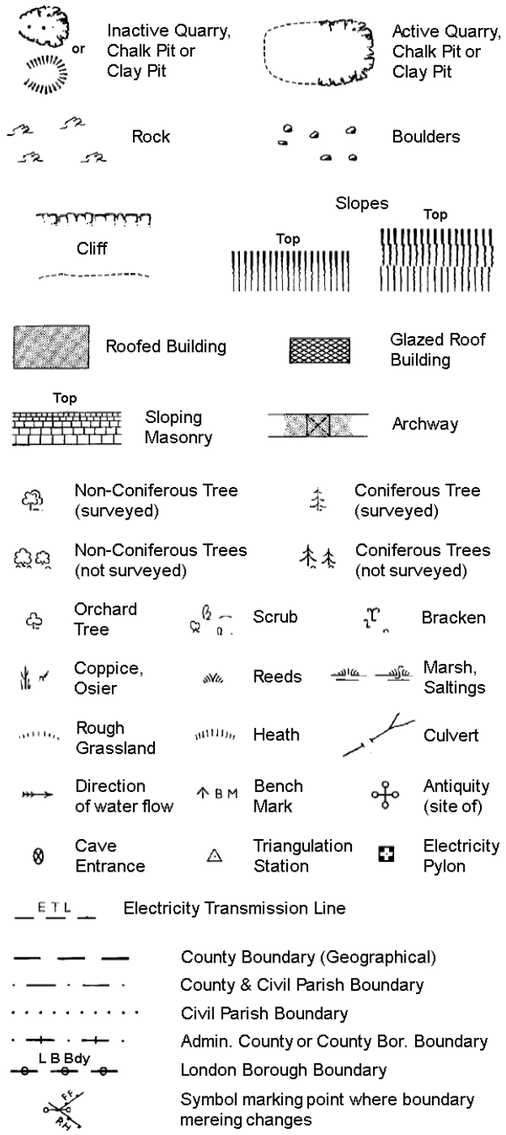
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

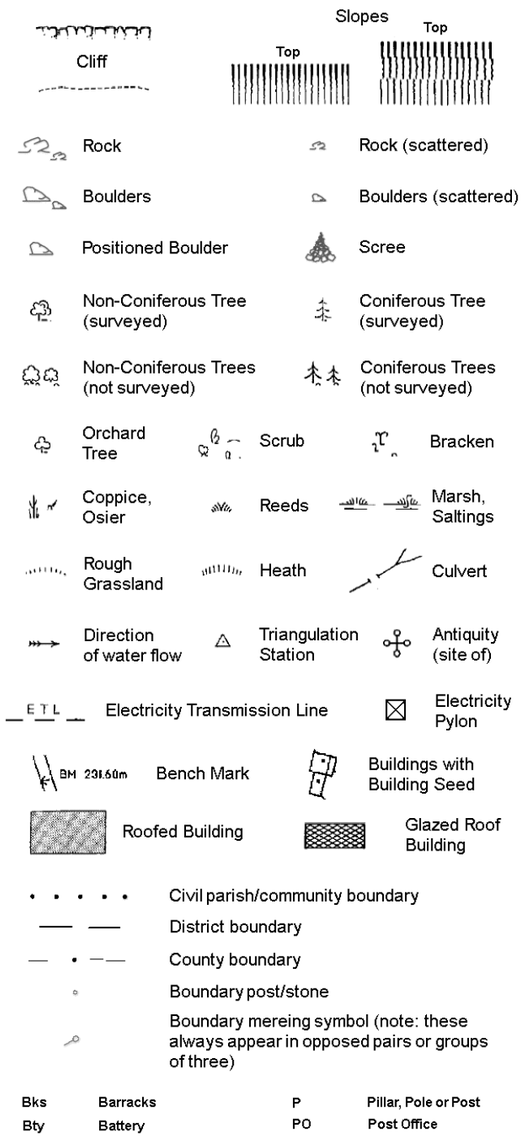
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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)

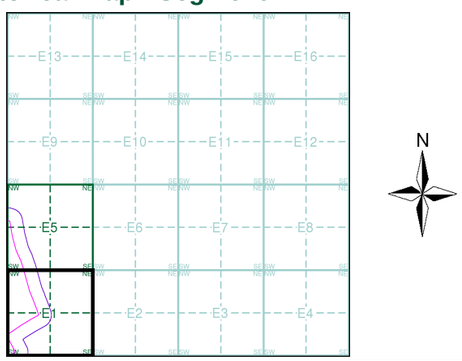
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975 - 1976	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment E1



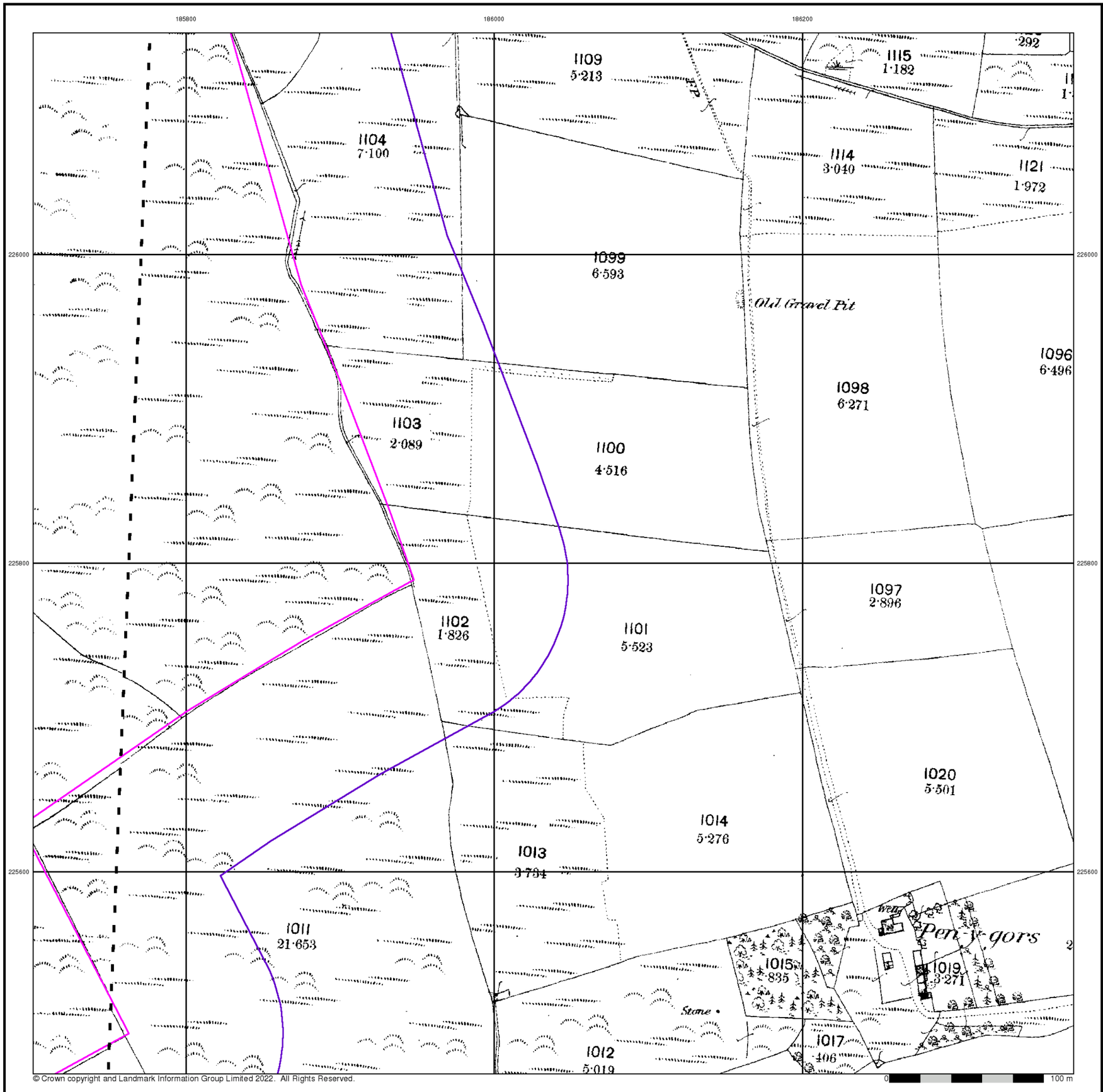
Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186230, 226360
Slice:	E
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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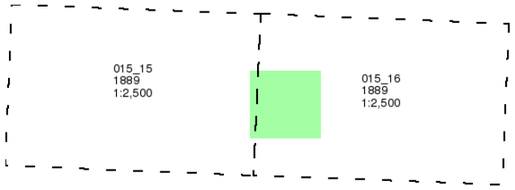
Pembrokeshire

Published 1889

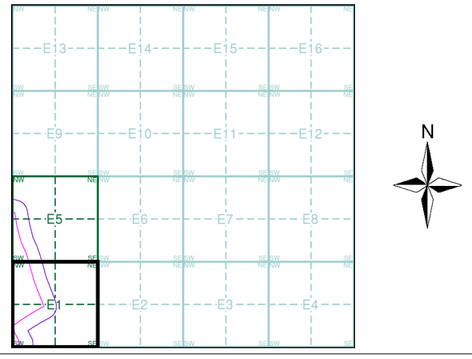
Source map scale - 1:2,500

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 E1



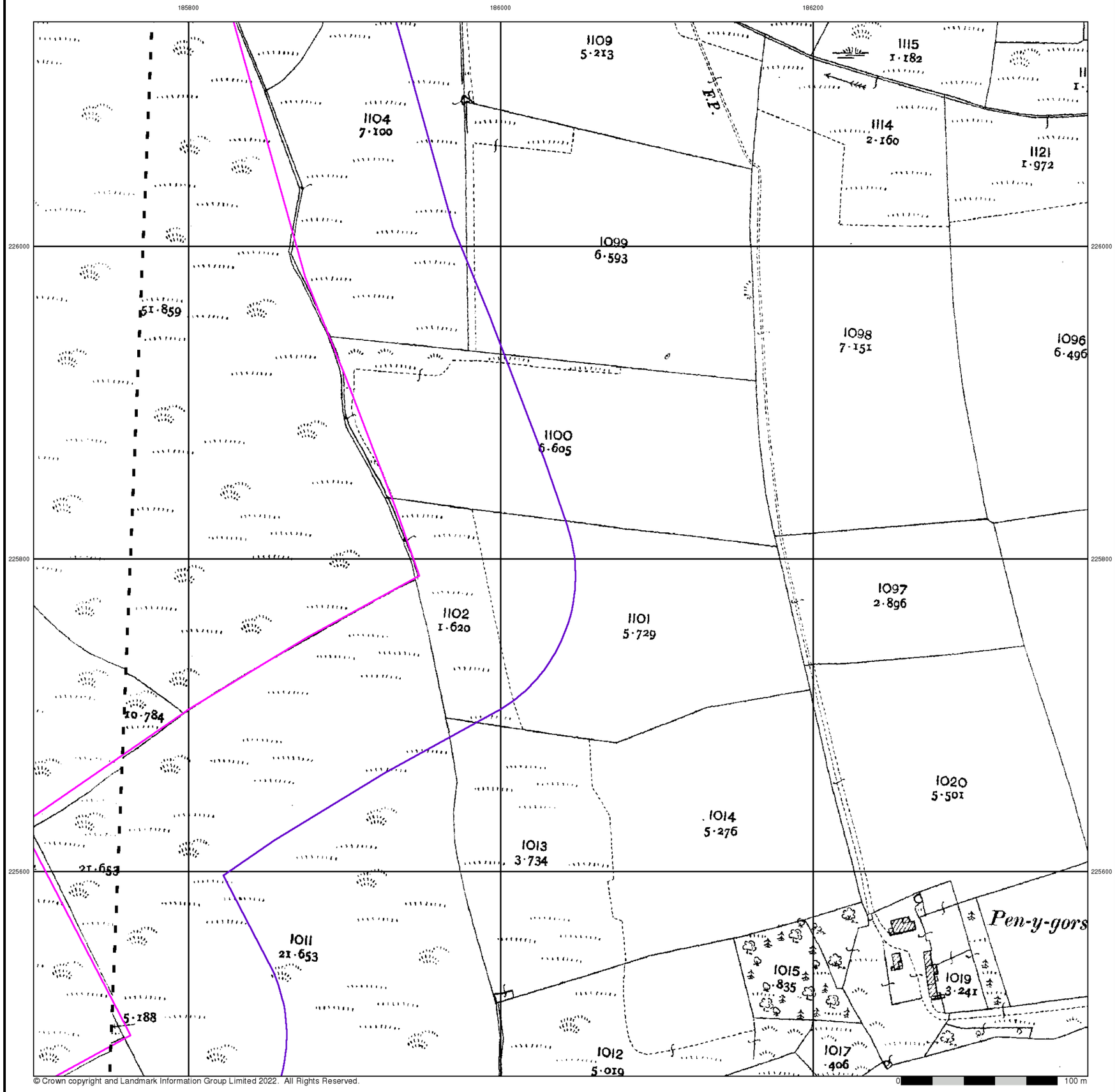
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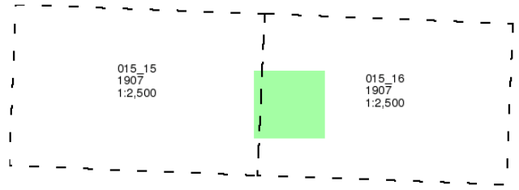
Pembrokeshire

Published 1907

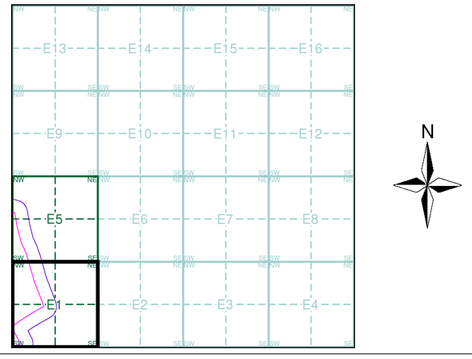
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment E1



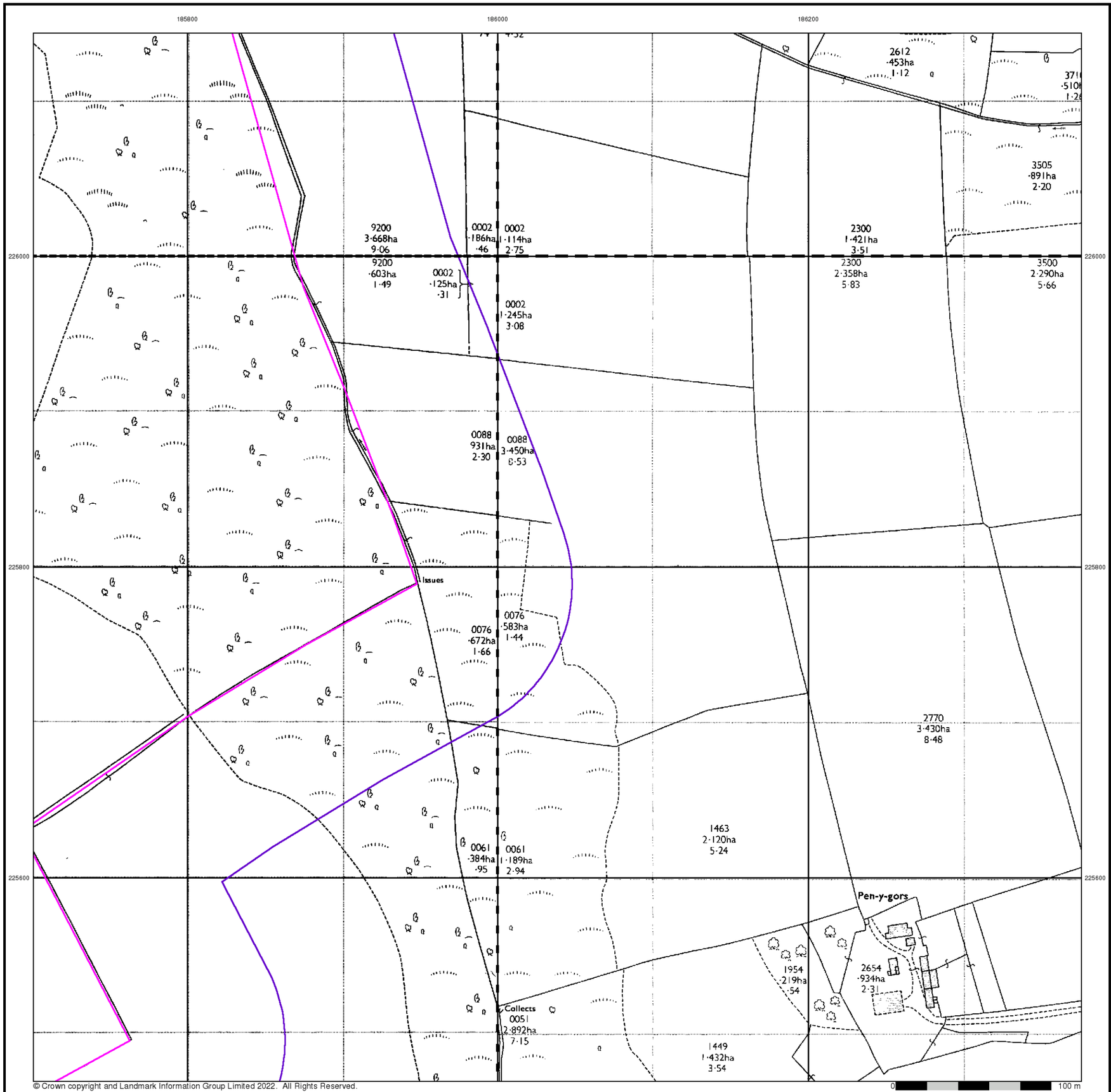
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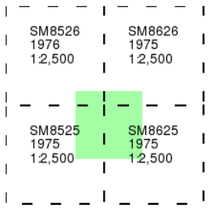
Ordnance Survey Plan

Published 1975 - 1976

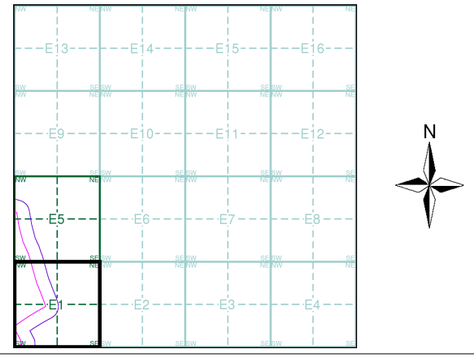
Source map scale - 1:2,500

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Historical Map - Segment E1



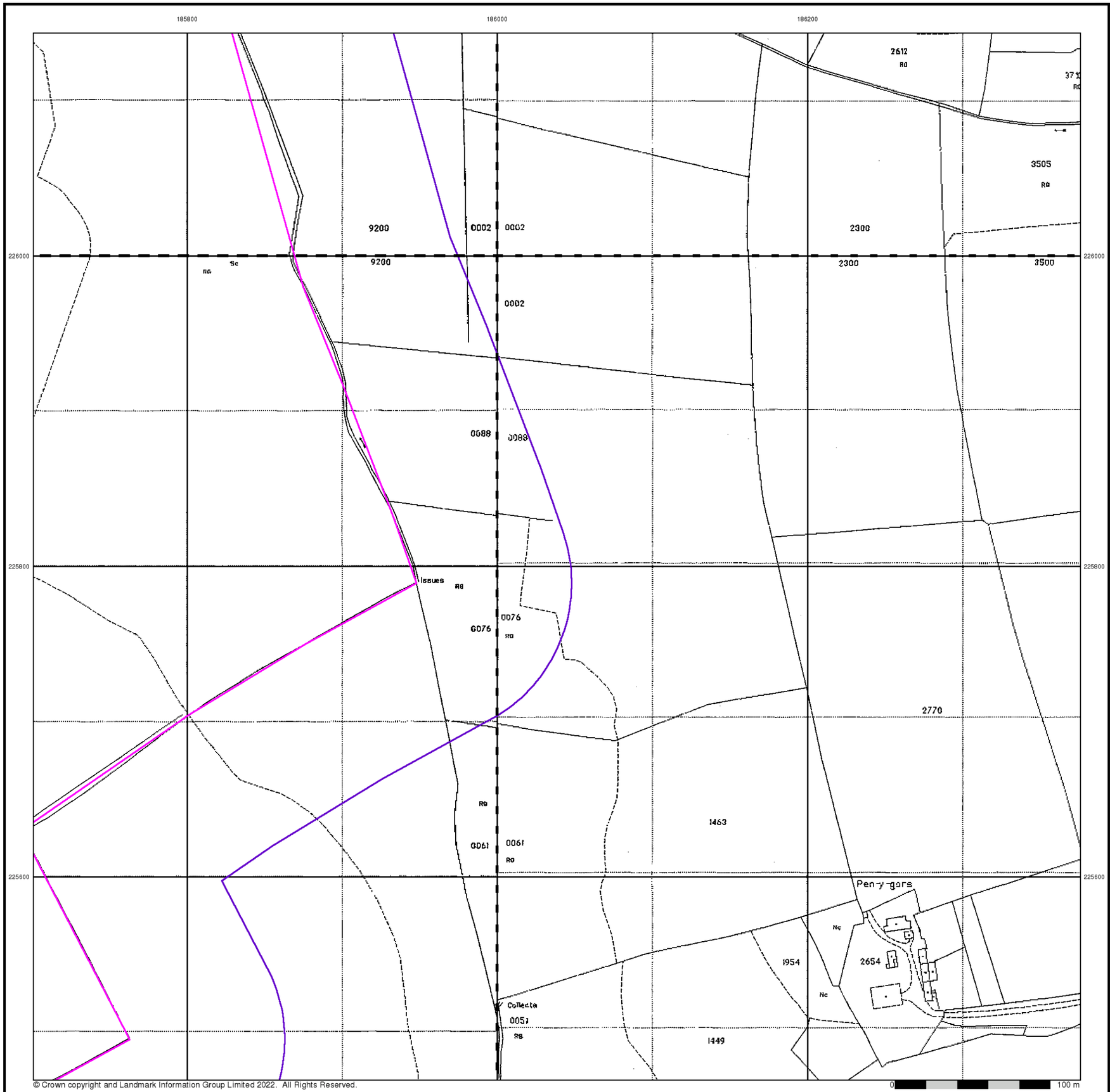
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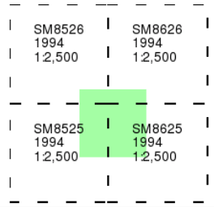
Large-Scale National Grid Data

Published 1994

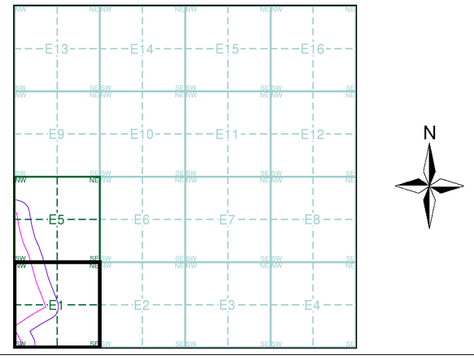
Source map scale - 1:2,500

'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 E1



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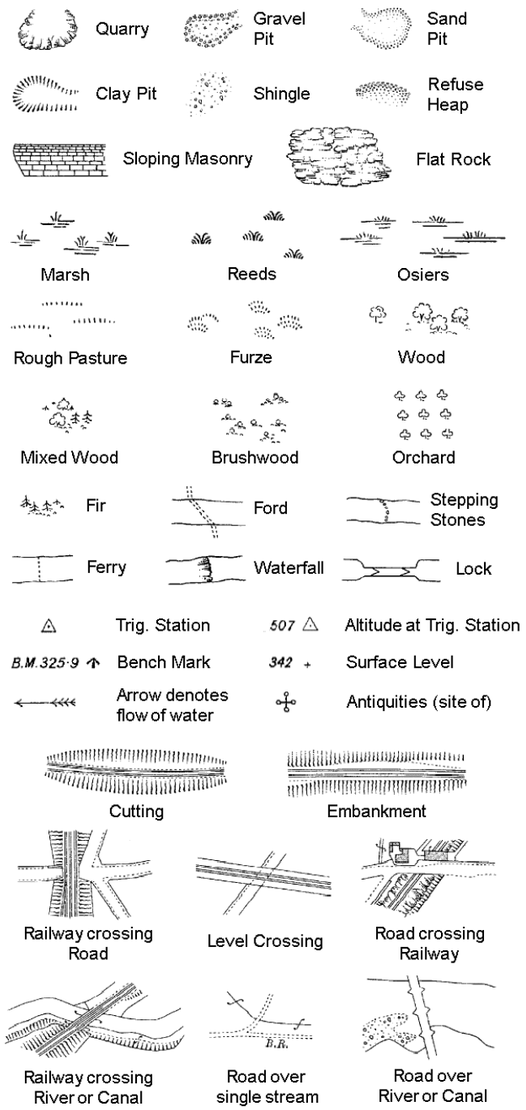
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

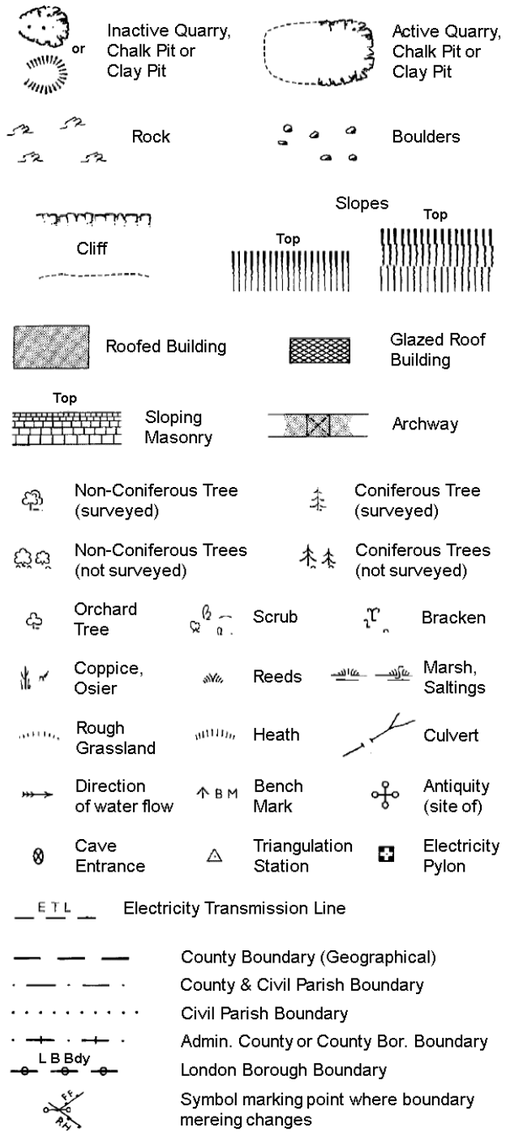
Administrative County & Civil Parish Boundary

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

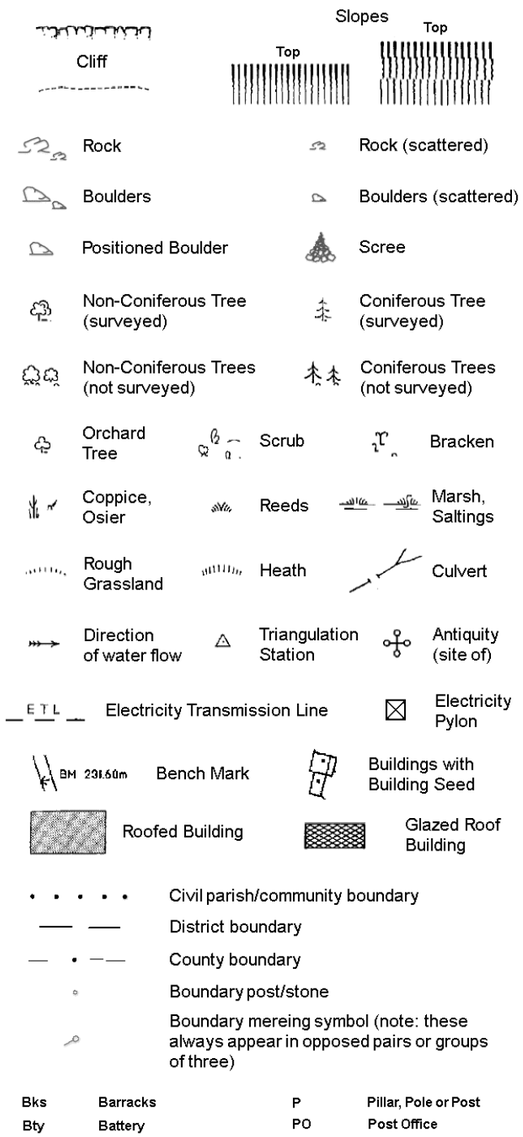
Admin. County or County Bor. Boundary

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
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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)

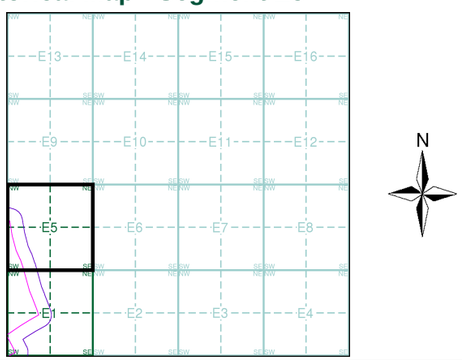
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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

SWECO

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Pembrokeshire	1:2,500	1889	2
Pembrokeshire	1:2,500	1907	3
Ordnance Survey Plan	1:2,500	1975 - 1976	4
Large-Scale National Grid Data	1:2,500	1994	5

Historical Map - Segment E5



Order Details

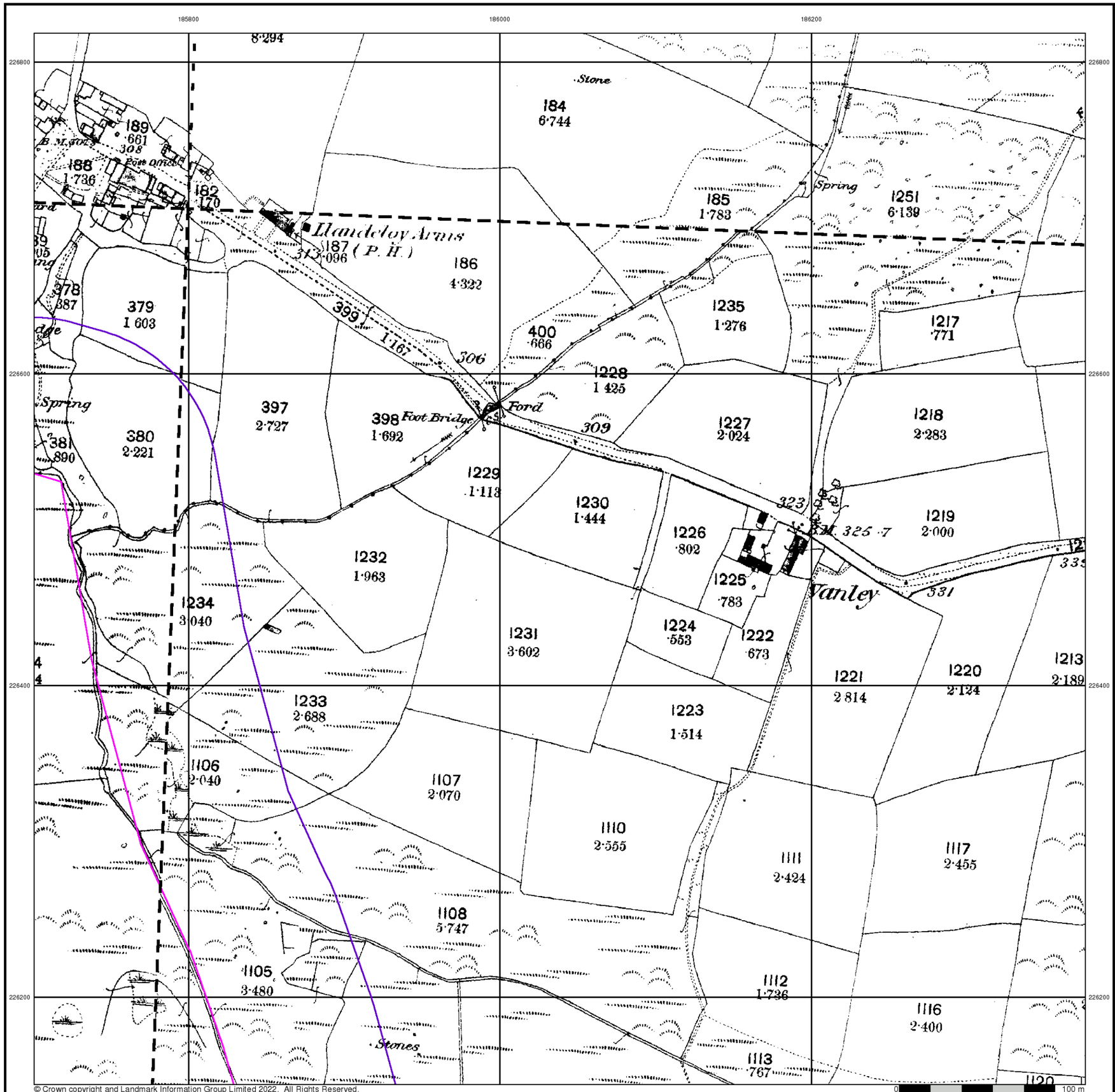
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Customer Ref:	65208061
National Grid Reference:	186230, 226360
Slice:	E
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

Landmark INFORMATION GROUP

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



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SWECO

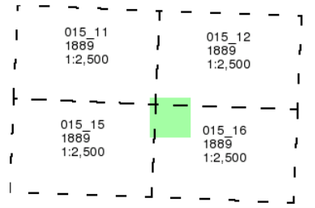
Pembrokeshire

Published 1889

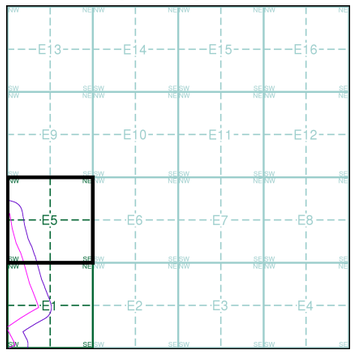
Source map scale - 1:2,500

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 E5



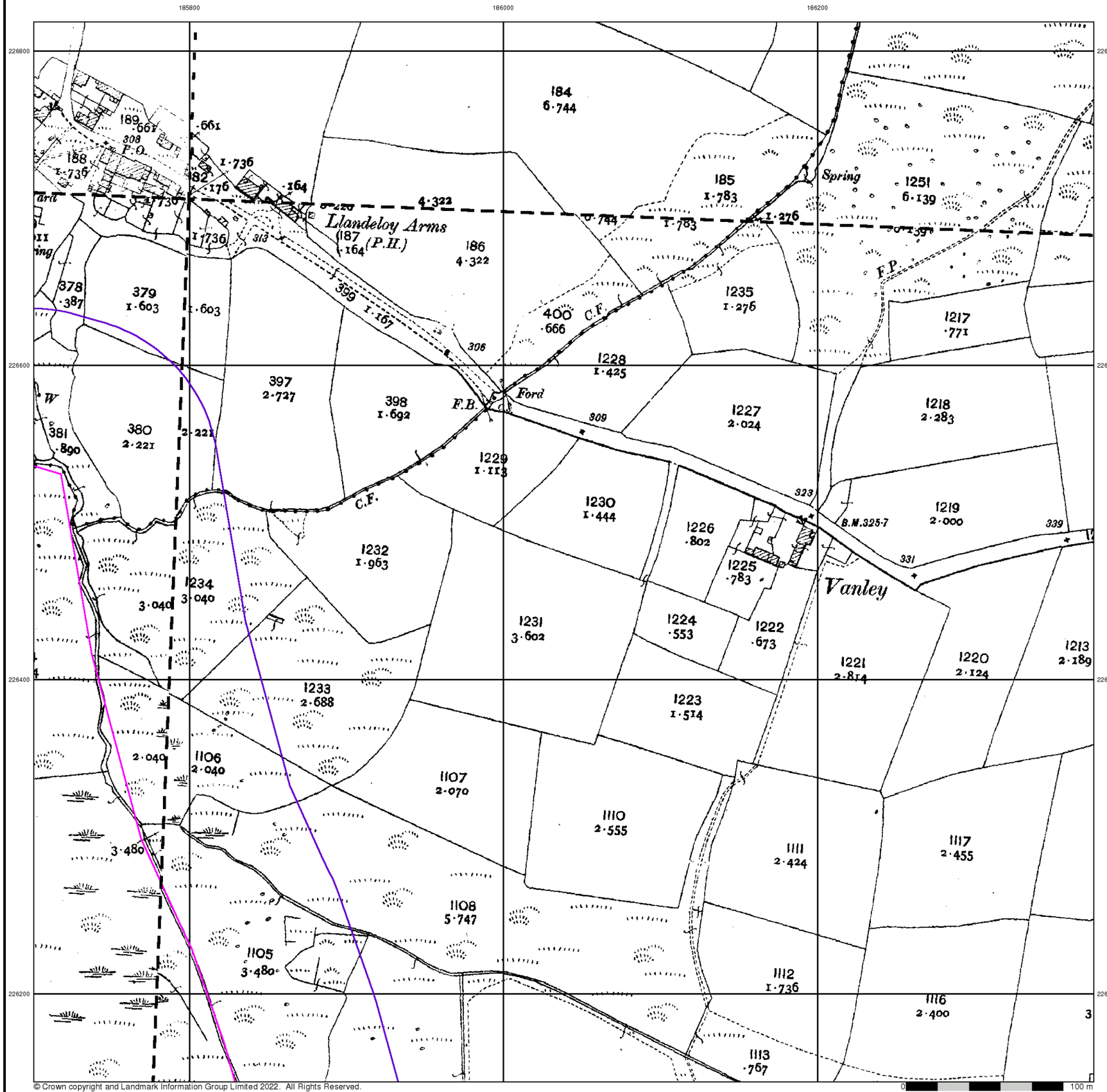
Order Details

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SWECO

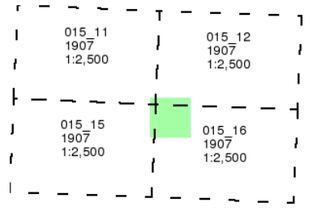
Pembrokeshire

Published 1907

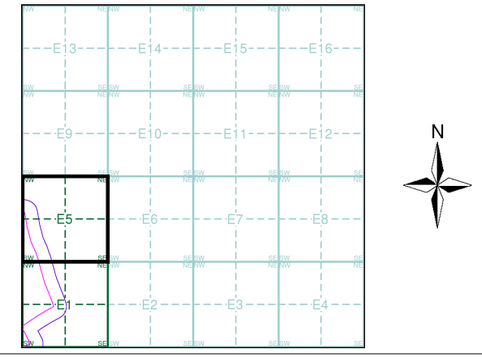
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Map Name(s) and Date(s)



Historical Map - Segment E5



Order Details

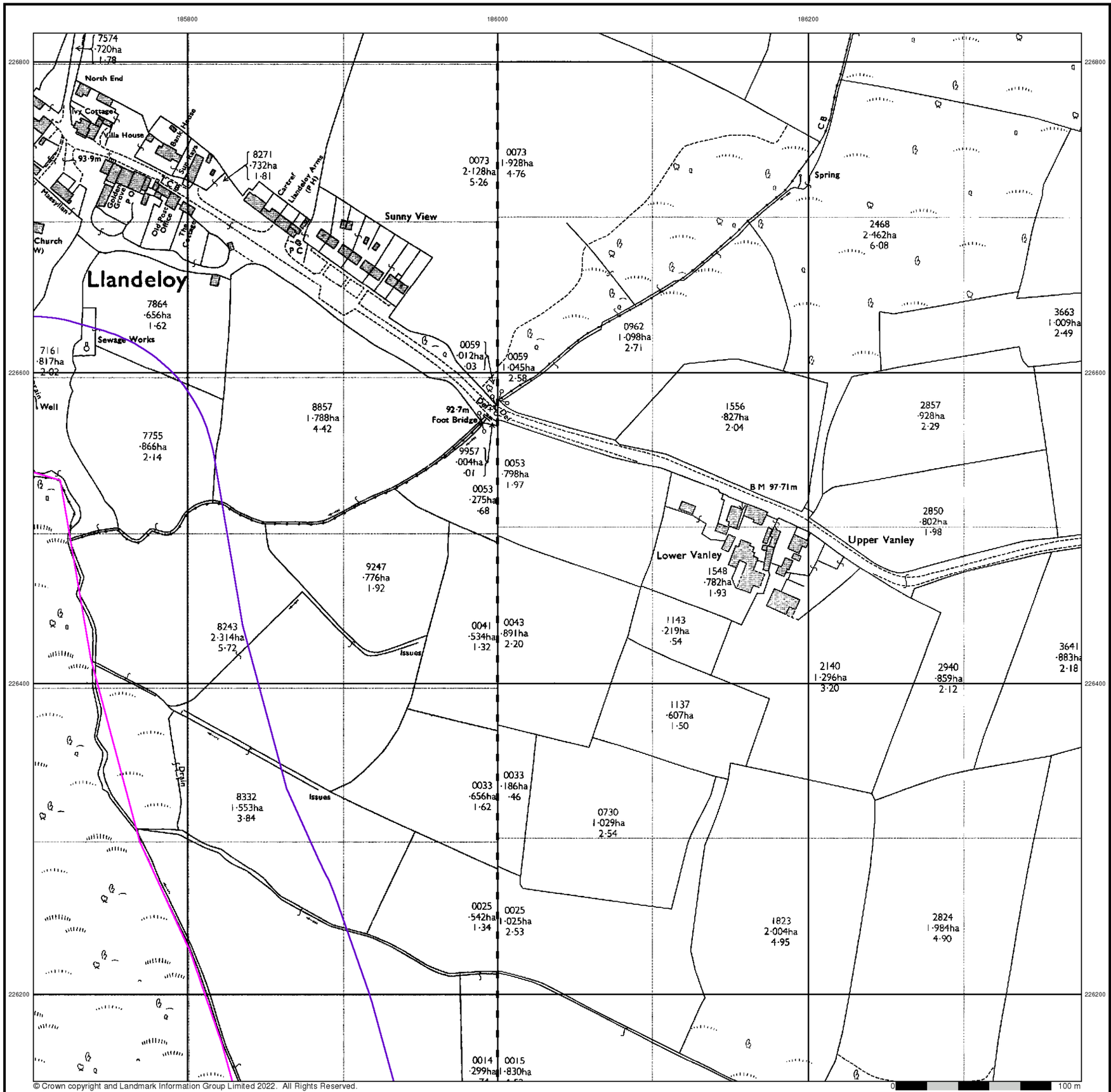
Order Number:	305022956_1_1
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SWECO

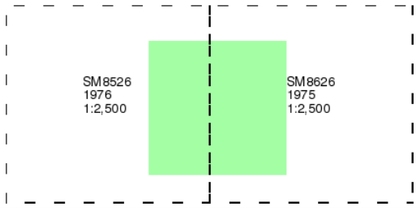
Ordnance Survey Plan

Published 1975 - 1976

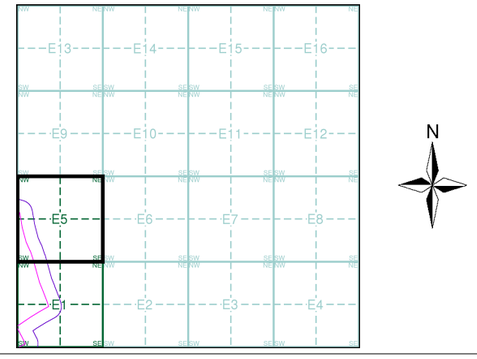
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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 E5



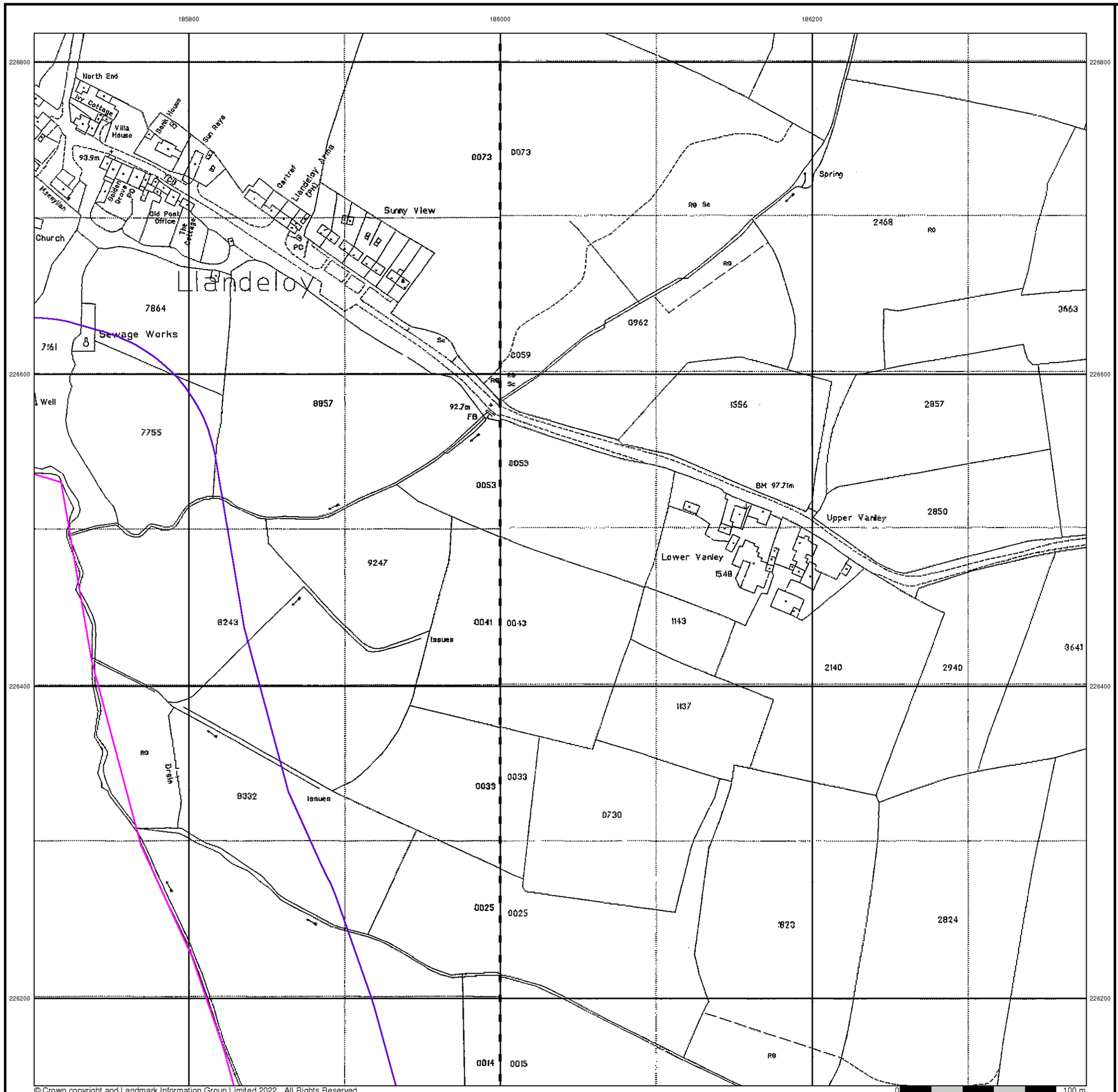
Order Details

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National Grid Reference:	186230, 226360
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SWECO

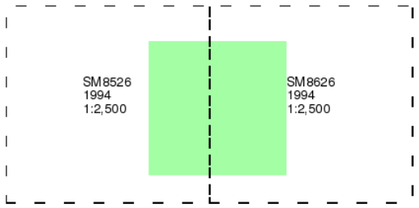
Large-Scale National Grid Data

Published 1994

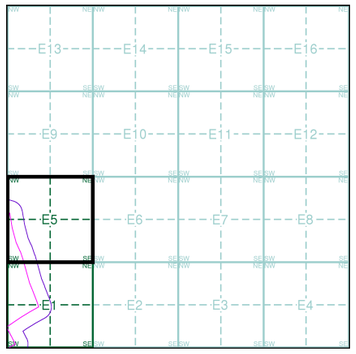
Source map scale - 1:2,500

'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 E5



Order Details

Order Number:	305022956_1_1
Customer Ref:	65208061
National Grid Reference:	186230, 226360
Slice:	E
Site Area (Ha):	308.46
Search Buffer (m):	100

Site Details

Cawdor site

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Web: www.envirocheck.co.uk

Appendix C – Dstl Correspondence

Dstl Chemical, Biological & Radiological Division

Institute of Naval Medicine
Crescent Road
Gosport
Hampshire
PO12 2DL

T +44(0)1980 951958
E: dmemerson@dstl.gov.uk

Dstl is part of the Ministry of Defence

DIO
Room 106, Bldg 420
MOD Corsham
Corsham
Wiltshire
SN13 9NR

(For attention of Lucy Alexander-Fuller)

Our Ref: CBRD/DE/490158/DIO/LAF
Your Ref: Email Alexander-Fuller(DIO)/Emerson(Dstl) dated 21/04/2020

Date: 13 July 2020

RADIOLOGICAL RECORDS SEARCH: CAWDOR BARRACKS, PEMBROKESHIRE

1. In response to your request, Dstl have conducted a search of records relating to any radiological contamination issues at Cawdor Barracks, Pembrokeshire, SA62 6NN. This records search will provide an input into the Phase One Land Quality Assessment of the site.

Desk Study Methodology

2. Dstl have searched a number of information sources including the MOD radioactive holdings database, archive records and published information. In addition, members of the Dstl Radiation Protection Advisor Body and site safety personnel have been questioned regarding information on radiological issues.

Results of Information Search

3. Findings of the records search are summarised in Table 1 (Annex A), which includes full references for any information identified. It should be noted that this table also indicates where a source of information was interrogated, but where no information was available.

Summary

4. It is concluded that Dstl, to the best of their knowledge, are not aware of any radiological contamination at Cawdor Barracks, Pembrokeshire.

5. The findings of this records search are purely factual and Dstl have not included any interpretation of the information relating to potential radioactive contamination.

6. Should you obtain additional information which you would like Dstl to comment upon, please do not hesitate to contact me.

DEE EMERSON
Senior Health Physicist
Project Technical Authority – DIO

Report Prepared by:
Adam Palmer
Senior Health Physicist

Table 1. Information Sources Radiological Records for Cawdor Barracks

INFORMATION SOURCE	COMMENTS	REFERENCE
MOD Radioactive Holdings Database	The only unit currently shown to be holding radioactive materials on site at Cawdor Barracks is 14 Signal Regiment. The unit currently holds standard military equipment containing tritium (H-3). The database shows that 14 Signals Regiment has also previously held equipment containing nickel-63 (Ni-63), chlorine-36 (Cl-36) and strontium-90 (Sr-90) on site. Brawdy Dental Centre is also on site at Cawdor Barracks, however the dental centre does not hold any radioactive material (X-ray only). In addition to the nuclides listed above, RAF Brawdy (previous site name) has also held equipment containing americium-241 (Am-241), promethium-147 (Pm-147), uranium-238 (U-238) and radium-226 (Ra-226).	MOD Radioactive Holdings Database (maintained by Dstl) [date of search: 24/06/2020]
Environmental Regulator Notifications/Approvals	No MOD units on currently on the site require a notification or approval from the environmental regulator for the keeping of radioactive substances or the accumulation or disposal of radioactive waste (Environmental Permitting Regulations 2016). RAF Brawdy is shown to have previous held a Notification for the keeping and use of radioactive substances.	MOD Radioactive Holdings Database (maintained by Dstl) [date of search: 24/06/2020]
Dstl Archive Information	A desk study for Cawdor Barracks was undertaken by Dstl in November 2010. This report concluded that the likelihood of radiological contamination issues at Cawdor Barracks is deemed to be low. A previous desk study was also undertaken for RAF Brawdy by DRPS in 1997, which again concluded that it is unlikely that there is any significant radiological contamination at RAF Brawdy.	Dstl internal records store ESD/AS/490158/ENTEC/AK dated 10 November 2010 DRPS Report No. 53/97 dated 20 October 1997 [date of search: 24/06/2020]
Published Information (including any information from the internet/MOD intranet)	The site initially operated as a spare runway for RAF St Davids, until 1945 when the Station HQ moved to RAF Brawdy from RAF St Davids. Aircraft that operated from RAF Brawdy included Handley Page Halifax, Supermarine Spitfire, de Havilland Mosquito, Hawker Sea Hawk and Hawker Hunters. These aircraft are all know to have contained equipment with radium luminsed components. Flying ceased on site in 1992, and the site was handed over to the Army in 1995.	Action Stations No.3 Military airfields of Wales and the North-West by David J Smith. 1981. Cambridge: Patrick Stephens Limited MOD Intranet/Internet search

INFORMATION SOURCE	COMMENTS	REFERENCE
	A search of the MOD intranet and internet did not return any relevant information regarding the site.	[date of search: 26/06/2020]
Site Monitoring Details	There are no records of radiological contamination surveys taking place on the site.	Dstl internal records [date of search: 26/06/2020]
Site Contacts (e.g. Radiation Safety Officer)	Not available.	
Information from Radiation Protection Adviser and previous advisory visits	The focal point for the Army within the Dstl RPA Body advised that she was not aware of any contamination issues. Previous radiation protection advisory visit reports for 14 Signal Regiment were scrutinised but no issues relating to radiological contamination were identified.	Email received from Dee Emerson, (Dstl Army Focal Point) dated 08/06/2020. Dstl CBR Report No 040/2018 dated 19 April 2018 [date of search: 26/06/2020]

Appendix D – Summary of UXO Estate Intelligence

SUMMARY OF UXO ESTATE INTELLIGENCE

Location; Cawdor Barracks

Formerly; RAF Brawdy, HMS Goldcrest

Establishment Code; CAWD

National Grid Reference; SM 852 251

Date; July 2019

Author; DIO TS-SHEPS EOLM 2a

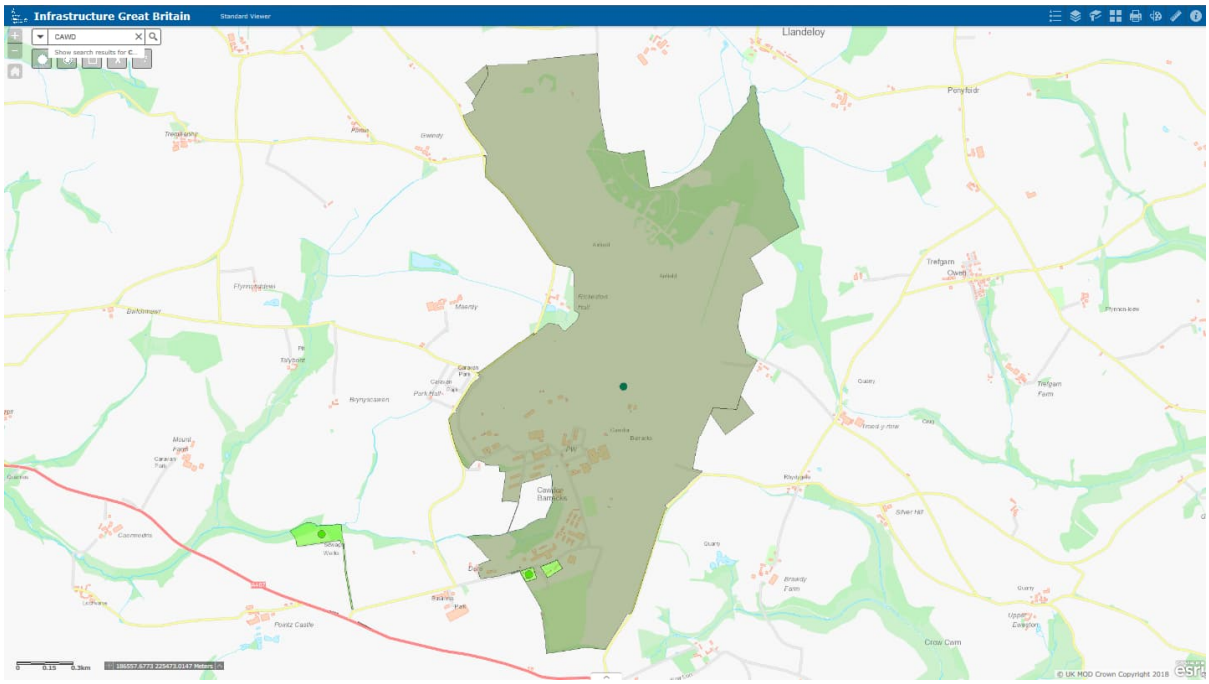
Sources;

- 29EODSGp; electronic and hard copy information held by DIO EOC
- 5131(BD)Sqn; electronic information held by DIO EOC
- RAF; hard copy of CSSB report held by DIO EOC
- Entec LQA Phase 1 dated February 2011; electronic copy available on ArcGIS

Areas of potential UXO contamination identified during review;

- Former ESA's; no EOC tasks recorded
- Former Machine gun and Cannon range; no EOC tasks recorded
- Former Aircraft shooting in butts; no EOC tasks recorded

Site boundary plan taken from ArcGIS Infrastructure Viewer.



Glossary

CSSB	Command Scientific Support Branch
CW	Chemical Weapons
DIO	Defence Infrastructure Organisation
EOC	Explosive Ordnance Clearance
EOD	Explosive Ordnance Disposal
ESA	Explosive Storage Area
GR	National Grid Reference
HMS	Her Majesty's Ship
LQA	Land Quality Assessment
RAF	Royal Air Force
SAA	Small Arms Ammunition
UK	United Kingdom
US AAF	United States Army Air Force
UXO	Unexploded Ordnance
WWII	World War Two
29EODSGp	29 Explosive Ordnance Disposal Support Group (Army)
5131(BD)Sqn	5131 (Bomb Disposal) Squadron (Royal Air Force)

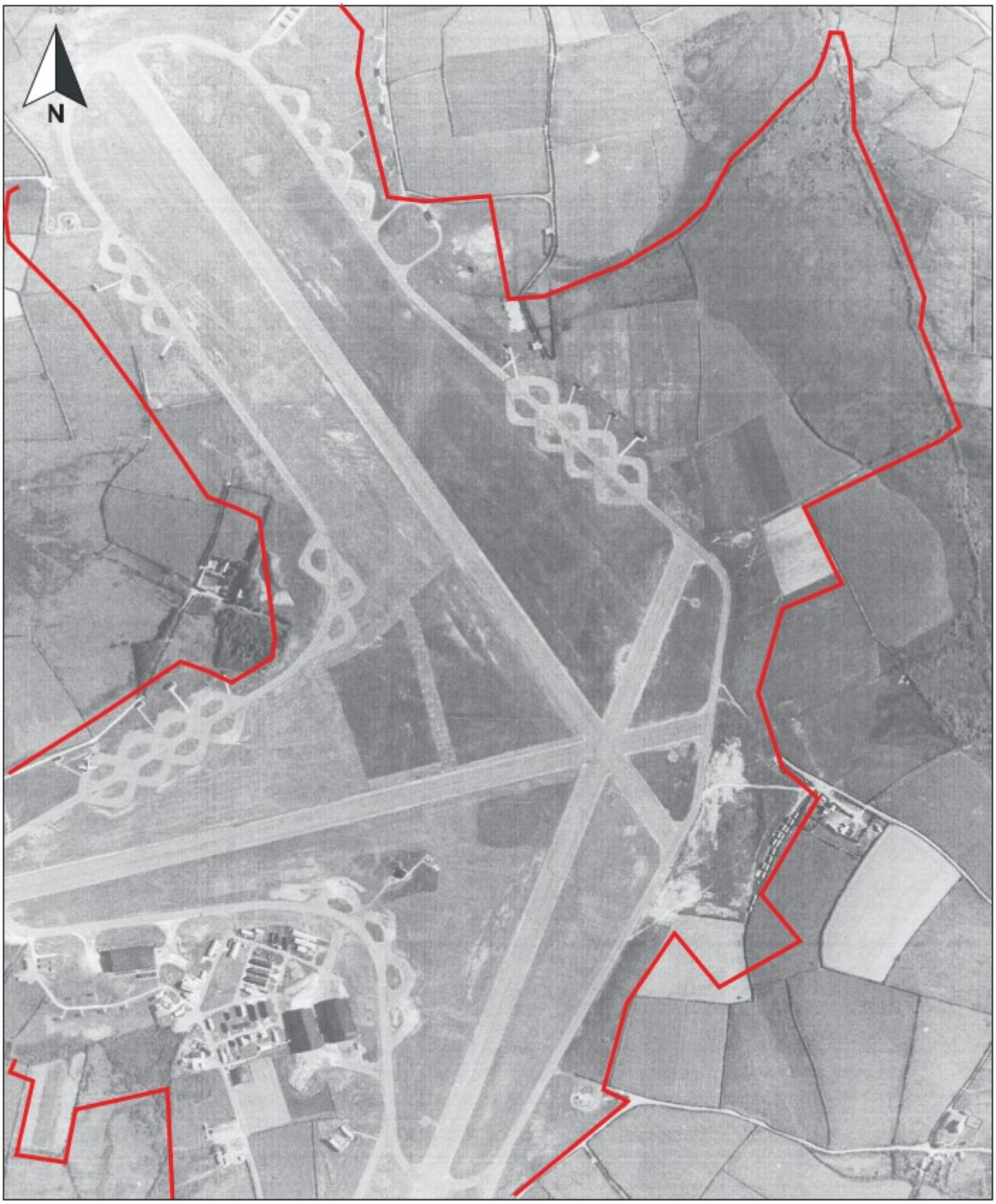
Category	Intelligence
Explosive storage	There are 2 x former ESA's located on site adjacent to each other at approximate GR SM 847 265 and SM 849 261. The LQA records that SAA and pyrotechnics are now stored in the armoury and that SAA is also held forward in the guardroom for use by security personnel. No EOC tasks recorded.
Ranges – Live	The LQA states that there was a .22 calibre Small bore range on site, although its location is not confirmed. The LQA also contains a Site Plan which shows an Aircraft shooting in butts located at approximate GR SM 847 254. A Machine gun and Cannon range was originally located at GR SM 848 244, this was converted to a Small arms range before being demolished and replaced by the current 25m Small arms range which is located at GR SM 848 243. No EOC tasks recorded.
Ranges – Dry training	The LQA reports that parts of the former airfield are now used as a training area.
Airfield Bombing Ranges	There are no indications of a practice bombing range on site.
Known Ranges – 1939/45	Small bore range. Machine gun and Cannon range. Aircraft shooting in butts.
Enemy Bombing	No information held.
Abandoned Bombs	None recorded at this location.
WWII anti-invasion defences - Demolition and Depth Charges	None recorded at this location.
WWII anti-invasion defences – Minefields	None recorded at this location.
WWII anti-invasion defences – Pipemines	None recorded at this location.
WWII anti-invasion defences – Airfield pipemines	Not listed as mined or considered for mining.
RAF WWII Chemical Weapons Legacy	None recorded at this location, CSSB RAF WWII CW Legacy report dated March 1999 ranks this as a Cat 5 site i.e. a very low risk site where some ground training occurred using live agent.
US AAF WWII Chemical Weapons Legacy in the United Kingdom	Not listed.
UK Army Chemical Weapons Legacy	Not listed.
Information on Chemical Weapon Sites	Not listed.
Anti-Aircraft Artillery	No information held.
Ordnance disposal	No information held.
EOC tasks	29EODSGp completed a EOC reconnaissance task in February 2011 – task number 2010/048.
Bomb Disposal Officer Tasks	None recorded.
Free from Explosives Certification	No information held.

Other UXO related tasks	The LQA contains a 'Certificate of Search for Clearance of Explosive Materials and Other Dangerous Goods' which was issued in October 1995, this records a visual search most probably completed by station not EOD personnel.
Clearance Certificates	None available.
Other reports	None held.
Aerial photographs	Contained in the LQA report.
Geophysical Data	None held.

Appendix E – Historical Aerial Photographs



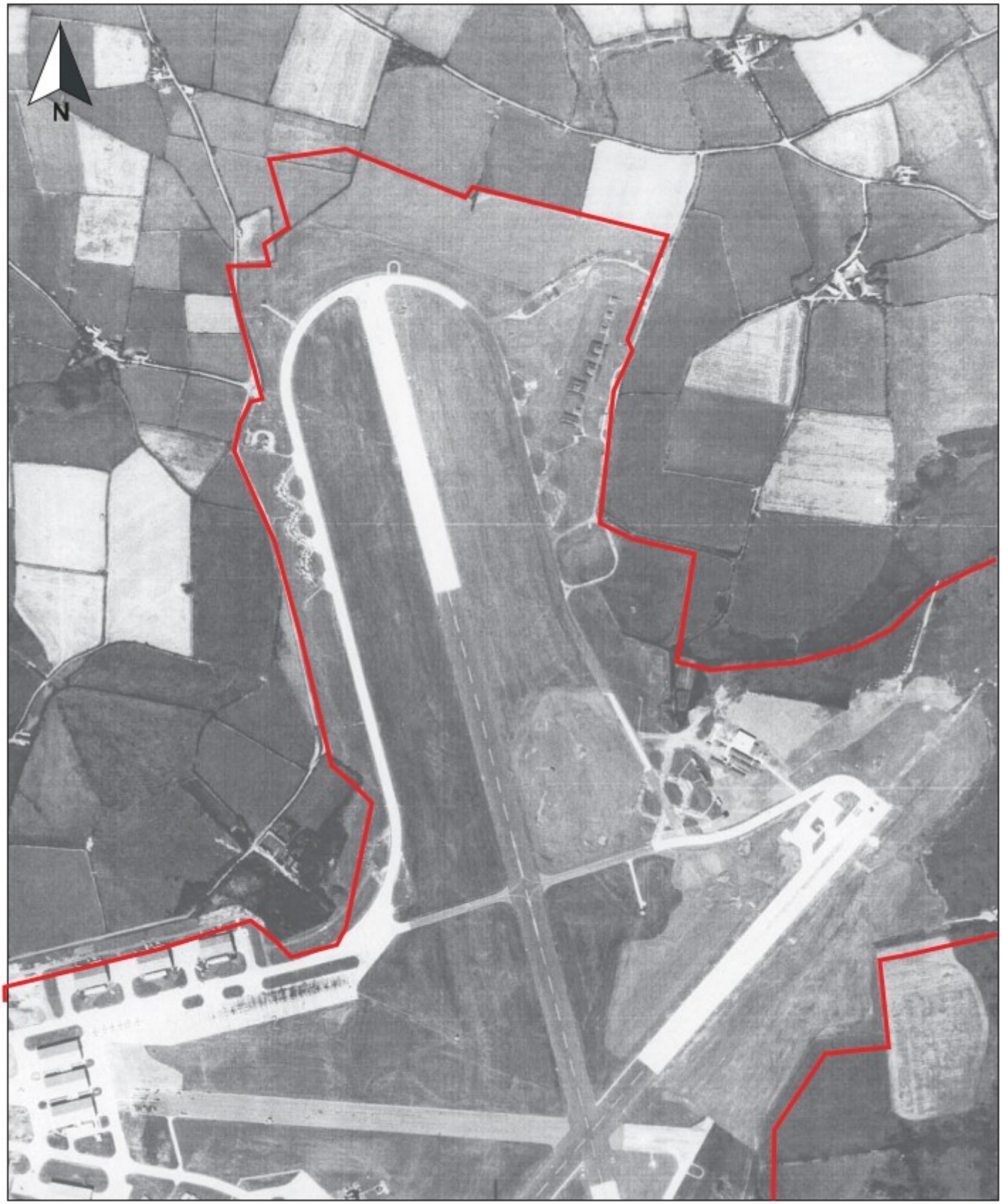
1946



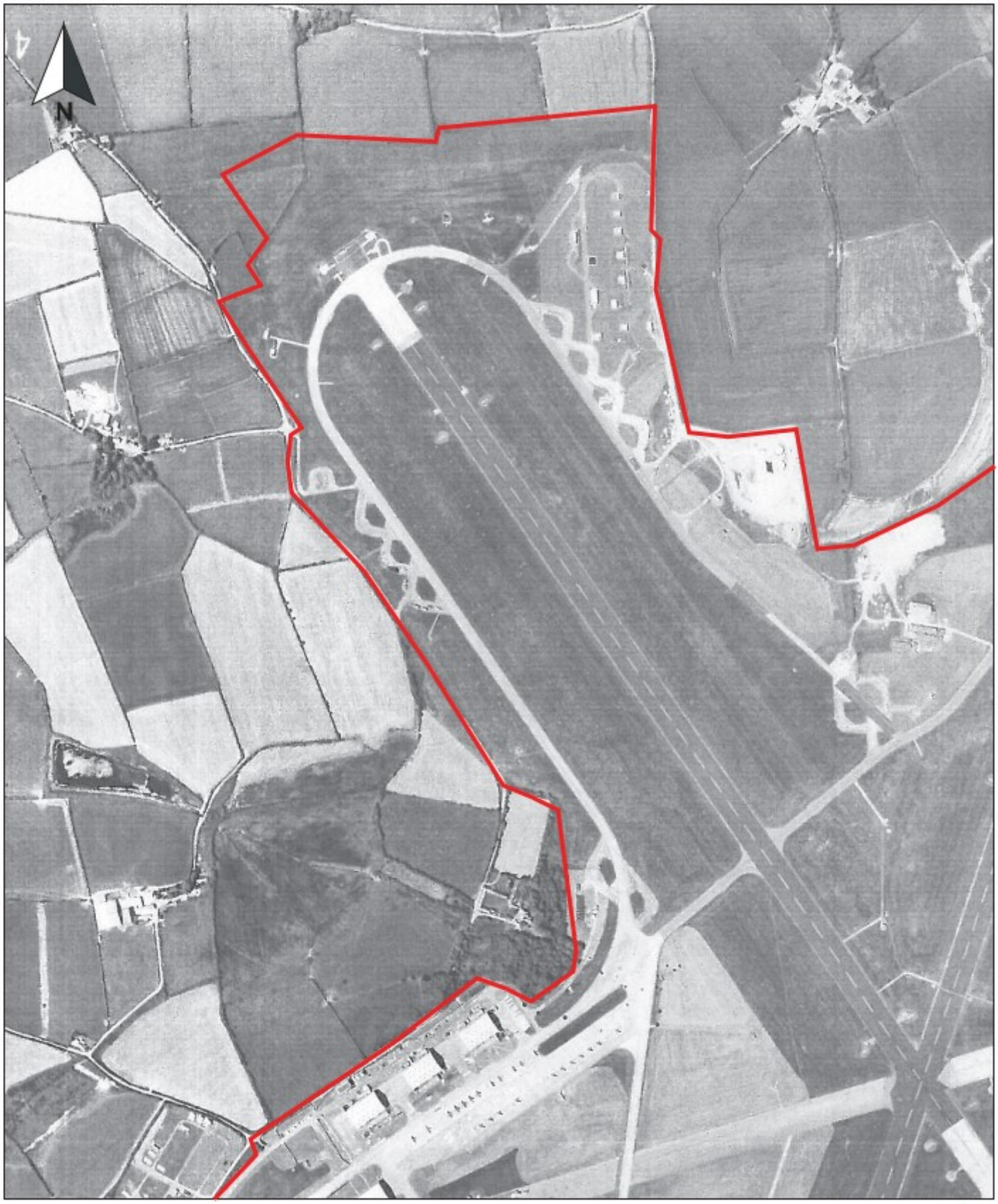
1946



1964



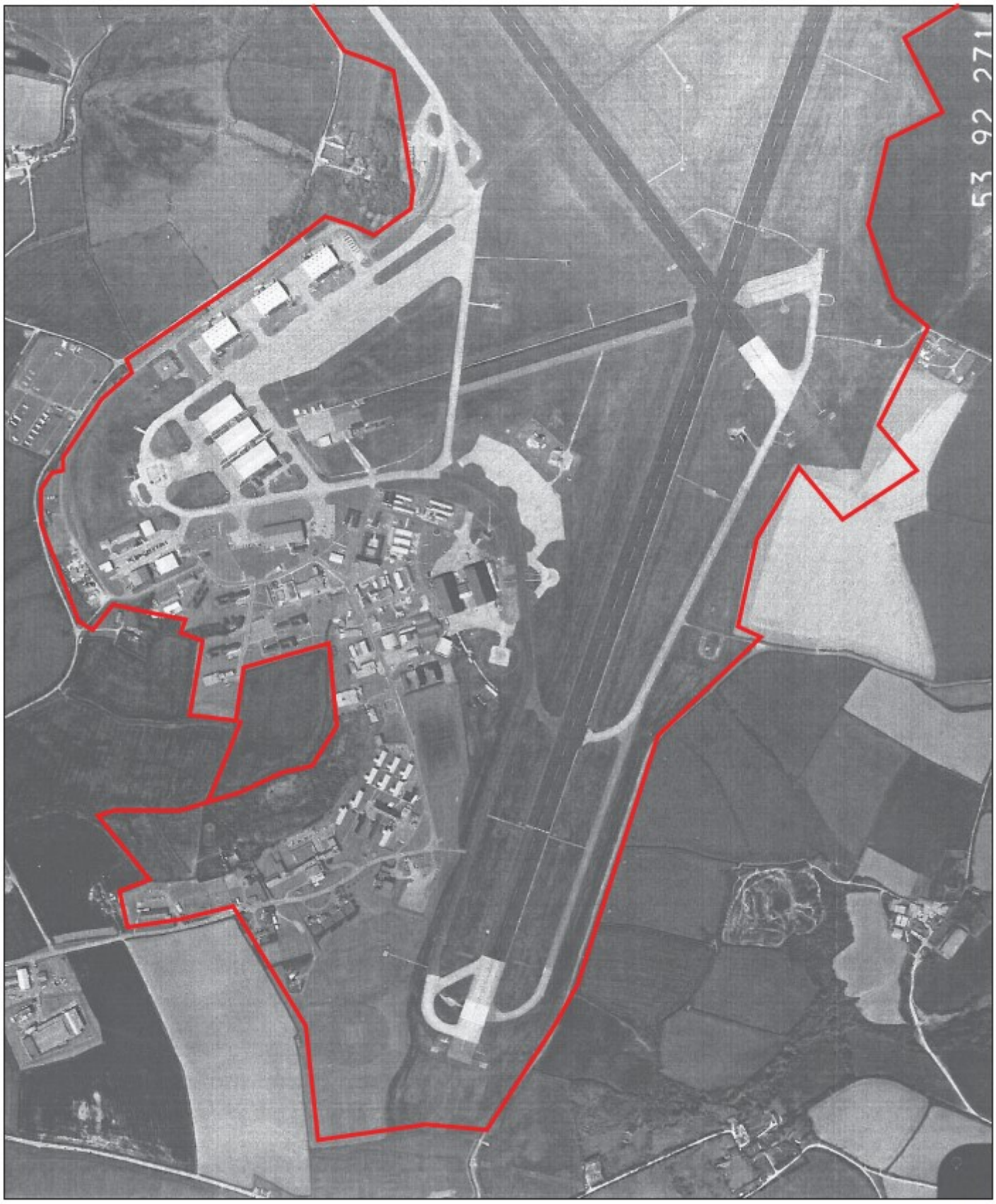
1964



1983



1992



1992



2006



1969 (Welsh Government APU)

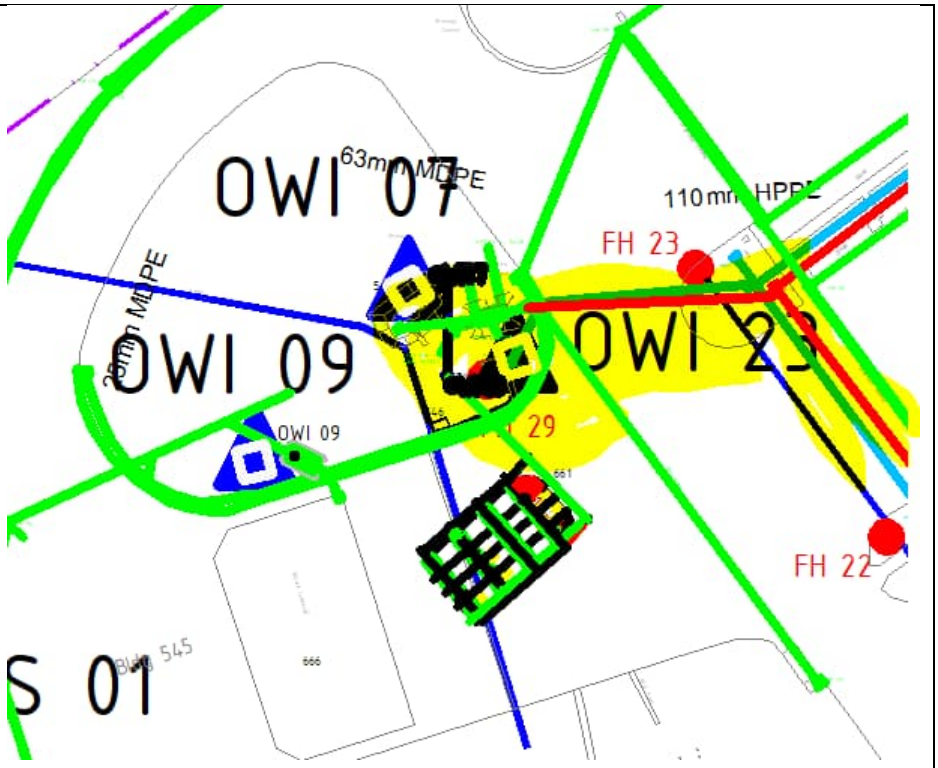


2013 (Welsh Government APU)

Appendix F – Environmental Consents

1402Ancala Water Services (AWS) Consent to Discharge to Foul Sewer			
Unique Reference	AWSTE TE001XA038		
Date issued	22/06/2020	Date expires	09/06/2025

Issued to	Site	Company/ Contact
	Cawdor Barracks	Capt David Ford

Discharge location (connection to sewer) *Append a map.*	 Smaller Washdown at 571 included for white fleet wash
Receiving asset	STW01
Details of the process causing the effluent	Discharge of Vehicle Washdown Effluent
Nature and composition of the effluent (temperature, chemicals, cleaning products, oils, silt etc.) *Append safety data sheets for chemicals.*	Water, mud, residue oils and greases. No chemicals or detergents to be used in washing.

Conditions of the discharge
At the point of discharge to foul sewer the following conditions will apply: 1. Maximum volume shall not exceed 2000 litres in any period of 24 hours 2. Maximum flow shall be limited to 2 litres/second 3. The discharge shall take place between the hours of 0800 - 1700 7 days a week 4. The following limits on concentration will apply: N/A 5. No detectable cadmium will be present in the discharge. 6. The pH shall not be less than 6 nor greater than 10 7. Temperature will not exceed 60 degrees Centigrade. 8. A record of dates, times, quantities and rates of discharge will be kept and made available for inspection if required. NB. This Authorisation is aligned with Environment Agency consent held by AWS.

The discharge should not contain any substance of a nature and quality likely to cause injury to any person engaged in the operation of the sewerage system or the Sewage Treatment Works. Written notice of any significant change in the nature and quality of the discharge shall be given to Ancala Water Services prior to the changes.

	Printed Name	On behalf of	Signature	Date
Authorised by	Dan Caldwell	Ancala Water Services	D.Caldwell	22/06/2020
Accepted by				

This consent to discharge to foul sewer is time limited until 09/06/2025. Ancala Water Services reserves the right to alter any of the conditions set out in this document at any time (after due consultation with the relevant authority).

Appendix G – Site Photographs

Technical Area/ Barracks



Photograph 1 View towards accommodation blocks.



Photograph 2– View towards officer's mess (centre and right) and married quarters (left).



Photograph 3 Boiler house.



Photograph 4 View towards hangars.



Photograph 5 Known asbestos contaminated area. Features hardstand for container storage. Warning signs in place.



Photograph 6 Known asbestos contaminated area (container). Area forms landscaped mound.



Photograph 7 25 m firing range.



Photograph 8 Current BFI and POL point.



Photograph 9 Current BFI and POL Point. Building is used for driver training courses.



Photograph 9 OWI in vicinity of current BFI.



Photograph 10 Hazardous waste storage compound.



Photograph 11 Vehicle wash down area.



Photograph 12 Groundskeeper storage (former Builder's store - Building 510).



Photograph 13 Groundskeeper storage in the foreground (Building 239 'Grounds Maintenance Store' (Equipment, fuels and Chemicals. Former Explosives store')). In the background are the earth bunds surrounding the now demolished Building 240 ('Redundant explosives store'). Currently used as concrete hardstand for waste skips.



Photograph 14 Footprint of former Building 240 (‘Redundant explosives storage’). Concrete walled bunds visible.



Photograph 15 Building 242 Armoury (Small arms and small arms ammunition).



Photograph 16 Footprint of former engine ardour house. Now gravelled and used for improvised explosive device (IED) training.



Photograph 17 Electrical substations.



Photograph 18 Electrical substation.



Photograph 19 Waste storage in the vicinity of the guardroom.



Photograph 20 Track and field area. View towards the Technical Area/ Barracks area.



Photograph 21 Site of former small fire training area in the vicinity of the accomodation blocks.



Photograph 22 Emergency Water tanks.



Photograph 23 Footprint of former hangar.



Photograph 24 Lawned area near gate into airfield.

Airfield Area



Photograph 25 Assault course and sports pitches inside airfield area.



Photograph 26 Linear mound between the sports field and assault course and the runway trending NNE-SSW.



Photograph 27 Evidence of clay pigeon shooting in the vicinity of the southern end of the runway trending NNE-SSW.



Photograph 28 Land to south of runway trending NNE-SSW.



Photograph 30 Area of former NAVFAC BFI.



Photograph 31 Footprint of demolished hangars.



Photograph 32 Redundant infrastructure in the vicinity of the former hangars.



Photograph 33 Redundant infrastructure in the vicinity of the former hangars.



Photograph 34 Former fuel bowser parking area.



Photograph 35 Old OWI (in vicinity of former fuel bowser parking).



Photograph 36 Gas compound to the south west of the former hangars.



Photograph 37 Former distribution substation near former hangars.



Photograph 38 Clay pigeon shooting range.



Photograph 39 Clay pigeon shooting range.



Photograph 40 Green waste disposal at the former site tip.



Photograph 41 Fenced compound. Location of former standby generator.



Photograph 42 Ground to air beacon.



Photograph 43 Land in vicinity of former BFI 1.



Photograph 44 Storage of tyres and other materials in an aircraft dispersal.



Photograph 45 One of the empty aircraft dispersals.



Photograph 46 View down the central road through the former ESA.



Photograph 47 Tipped furniture in ESA. Area currently used for small arms training.



Photograph 48 Tipped electronics and other waste in ESA.



Photograph 49 Land in the vicinity of former BFI 2.



Photograph 50 Old OWI (2 of 3).



Photograph 51 Former fire training area.



Photograph 52 Former fire training area.

General runway landscape



Photograph 53 Mown area between northern end of runway 33 and the ESA.



Photograph 54 Mown area between northern end of runway 33 and ESA.



Photograph 55 View southwards along runway 33.



Photograph 56 View northwards towards the north western end of runway 33.



Photograph 56 Land adjacent to the west of the northern end of runway 33.



Photograph 57 Land to the west of the runway intersections.



Photograph 58 Runway intersection.



Photograph 59 Land to the south of the runway intersection.



Photograph 60 Land to the northwest of the runway intersection.



Photograph 61 Area of broken up runway at the ENE end of runway 08.



Photograph 62 Boggy ground conditions at the ENE end of runway 08.



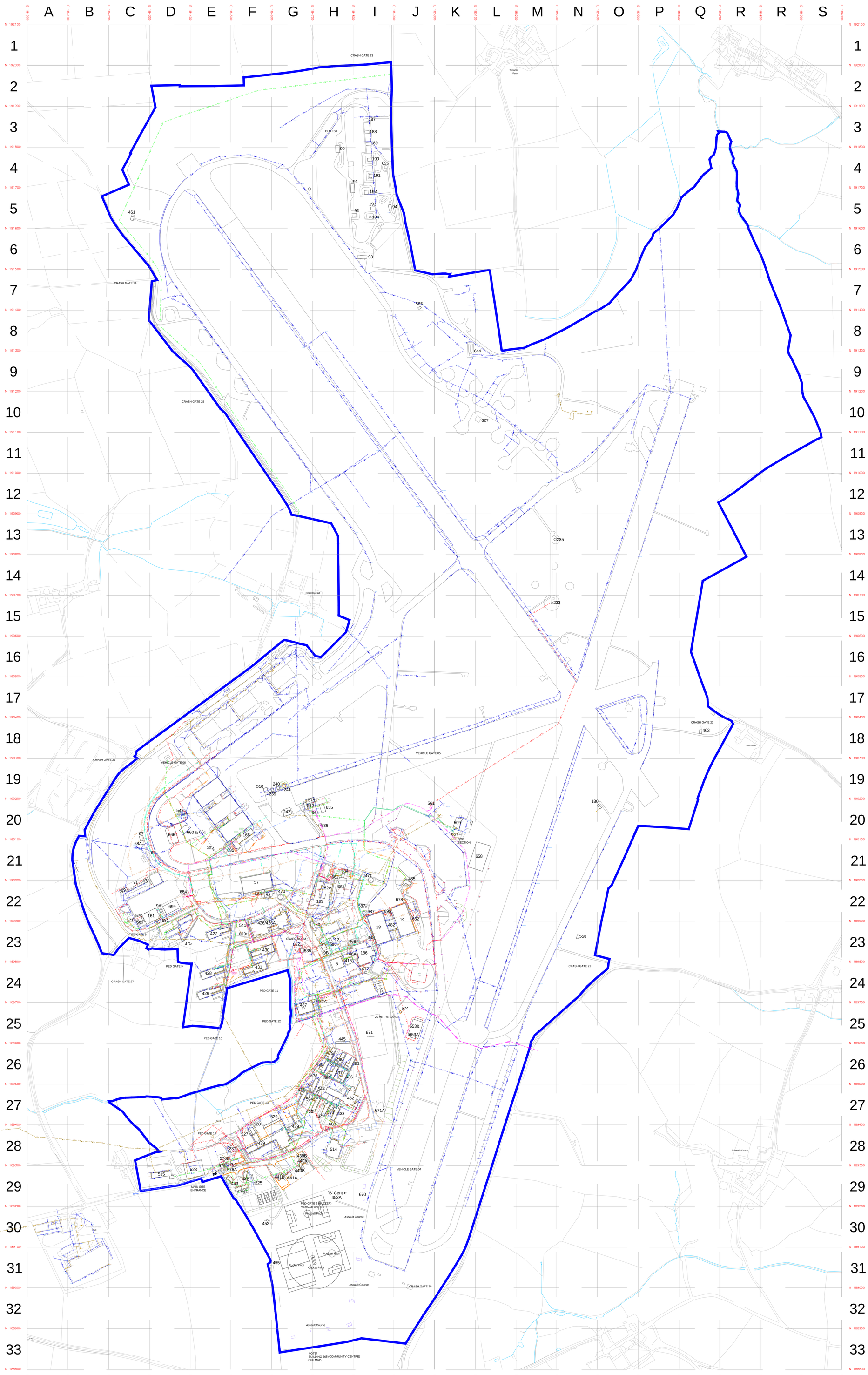
Photograph 63 Surface water was seen to collect at the NNE end of runway 03.



Photograph 64 Surface water was seen to collect at the NNE end of runway 03.

Appendix H – Site Services Plan

PROTECT



SERVICES - LEGEND.

(If the linetype displayed in the drawing has a (R) next to the text, it is indicating that the service with this on is known as being redundant).

- = GAS.
- = ELECTRICAL - HV.
- = ELECTRICAL - LV.
- = FOUL WATER DRAINAGE.
- = STORM WATER DRAINAGE.
- = DOMESTIC WATER.
- = DOMESTIC WATER - FIRE.
- = SPRINKLERS.
- = BUILDING MANAGEMENT SYSTEMS.
- = LIGHTING - LV.
- = PERIMETER LIGHTING.
- = CCTV.
- = COMMS.
- = DATA.
- = FUEL.
- = HEATING.
- = PA SYSTEM.
- = RADAR.
- = TELEPHONE - OVERHEAD.
- = TELEPHONE - UNDERGROUND.
- = UNDERGROUND DUCTS.
- = COMPRESSED AIR
- = CONTROL
- = INTERCEPTORS
- = PENSTOCK VALVES
- = POLLUTION CONTROL POINTS
- = STORM WATER OUTFALLS
- FH/WO = FIRE HYDRANT/WASHOUT
- = RODDING EYE

PROTECT

Scale :- 0 100 200 300 400 500 Metres

N

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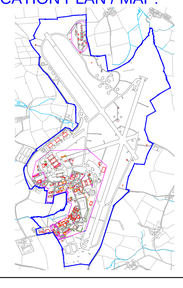
NOTES:

NOTE:
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SITE LOCATION PLAN / MAP:



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SITE/PROJECT:
CAWDOR BARRACKS

DWG TITLE:
SITE GENERAL LAYOUT SHOWING ALL KNOWN SERVICES

SHEET No	1 OF 1	DETAILS OF ISSUE:	11-Nov-10 - Tom Wade
DATE DRAWN:	27-07-10	SHEET SIZE:	A0
DRAWN BY:	LR	SCALE:	1:3500

DWG No:
1/CAWD-CAWS-SERV-002

Appendix I – Risk Assessment Table and Methodology

Potential Source (Area/ Building)	Potential Contaminant [Hazard]	Potential Receptor	Potential Pathway to Receptor	Associated Hazard	Potential Consequence of Contaminant Linkage	Likelihood of Contaminant Linkage [Probability]	Potential Significance	Item Number
Site Wide								
Source 1 Old BFI and former BFI 1, BFI 2, and NAVFAC BFI, and **Source 2** Former FTA	**Source 1** Hydrocarbons Likely aviation turbine fuel (AVTUR including AVTUR F34 FSii) but may have stored aviation gasoline (AVGAS) containing more volatile hydrocarbons and tetraethyl lead/ tetramethyl lead and **Source 2** Hydrocarbons (fuels and oils), PAHs and PFASs	Humans (Onsite personnel)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Low likelihood (Site users under normal occupancy have limited potential to come into contact with contaminants).	Moderate/Low risk	1
		Humans (Onsite residents with gardens)			Medium	Unlikely (Distance of receptor from source)	Low risk	2
		Humans (Onsite farmers)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors.	Health risk	Medium	Low likelihood (Farming activity largely superficial mechanised mowing of grass and bailing of silage. No frequent access in the vicinity of Source 2 is anticipated).	Moderate/Low risk	3
		Humans (offsite residents)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Low likelihood (Offsite residents at Rickeston hall have limited potential to come into contact with contaminants).	Moderate/Low risk	4
		Humans (offsite commercial workers)			Medium	Unlikely (Distance of receptor from source)	Low risk	5
		Humans (offsite amenity users)			Medium	Low likelihood (Users of Park Hall Village campsite have limited potential to come into contact contaminants).	Moderate/Low risk	6
		Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)	Leaching/ migration via groundwater	Pollution of controlled water (groundwater)	Medium	Likely (Previous groundwater contamination has been identified associated with Source 1).	Moderate risk	7
		Surface water (Unnamed surface water streams)	Via site drainage and baseflow	Pollution of controlled water	Medium	Likely (Surface waters likely to be in hydraulic continuity with groundwater beneath the Site).	Moderate risk	8
		Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians	Damage of local ecosystem	Medium	Low likelihood (No evidence of vegetation die back observed at this location).	Moderate/Low risk	9
		Buildings and buried structures	Direct contact with foundations/ services	Degradation of buried structures / services	Mild	Low likelihood (Limited potential to impact buildings and buried services. Future buildings/services will be designed according to the ground conditions).	Low risk	10

Potential Source (Area/ Building)	Potential Contaminant [Hazard]	Potential Receptor	Potential Pathway to Receptor	Associated Hazard	Potential Consequence of Contaminant Linkage	Likelihood of Contaminant Linkage [Probability]	Potential Significance	Item Number
Source 3 Former fuel bowser parking	Hydrocarbons AVTUR F34 FSii AVGAS DIESO MT CIVGAS F50	Humans (Onsite personnel)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Low likelihood (Site users have limited potential to come into contact with contaminants).	Moderate/Low risk	11
		Humans (Onsite residents with gardens)			Medium	Unlikely (distance of receptor from source)	Low risk	12
		Humans (Onsite farmers)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors	Health risk	Medium	Low likelihood (Distance of receptor from source. Farming activity not undertaken in proximity to Source 3).	Moderate/Low risk	13
		Humans (offsite residents)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Low likelihood (Offsite residents at Rickeston hall have limited potential to come into contact with contaminants).	Moderate/Low risk	14
		Humans (offsite commercial workers)			Medium	Unlikely (distance of receptor from source)	Low risk	15
		Humans (offsite amenity users)			Medium	Low likelihood (Users of Park Hall Village campsite have limited potential to come into contact contaminants).	Moderate/Low risk	16
		Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)	Leaching/ migration via groundwater	Pollution of controlled water (groundwater)	Medium	Low likelihood (No previously confirmed groundwater contamination derived from Source 3).	Moderate/ Low risk	17
		Surface water (Unnamed surface water streams)	Via site drainage and baseflow	Pollution of controlled water	Medium	Low likelihood (No previously confirmed groundwater contamination derived from Source 3).	Moderate/ Low risk	18
		Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians	Damage of local ecosystem	Medium	Low likelihood (No evidence of vegetation die back in proximity to the source).	Moderate/Low risk	19
		Buildings and buried structures	Direct contact with foundations/ services	Degradation of buried structures / services	Mild	Low likelihood (Limited potential to impact buildings and buried services. Future buildings/services will be designed according to the ground conditions).	Low risk	20

Potential Source (Area/ Building)	Potential Contaminant [Hazard]	Potential Receptor	Potential Pathway to Receptor	Associated Hazard	Potential Consequence of Contaminant Linkage	Likelihood of Contaminant Linkage [Probability]	Potential Significance	Item Number
Source 4 Former tip/burning area	Metals, hydrocarbons, solvents, asbestos, PCBs	Humans (Onsite personnel)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Low likelihood (Limited potential to come into contact with contaminants. Access to this area considered infrequent and for the deposition of green wastes only).	Moderate/Low risk	21
		Humans (Onsite residents with gardens)			Medium	Unlikely (distance of receptor from source)	Low risk	22
		Humans (Onsite farmers)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors	Health risk	Medium	Low likelihood (Although no farming activity undertaken in proximity to Source 4 there is potential for farmers to infrequently access this area to dispose of green wastes which is not anticipated to significantly disturb the soil).	Moderate/Low risk	23
		Humans (offsite residents)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Unlikely (distance of receptor from source)	Low risk	24
		Humans (offsite commercial workers)			Medium	Unlikely (distance of receptor from source)	Low risk	25
		Humans (offsite amenity users)			Medium	Low likelihood (distance of receptor from source)	Moderate/Low risk	26
		Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)	Leaching/ migration via groundwater	Pollution of controlled water (groundwater)	Medium	Low likelihood (No previously confirmed groundwater contamination derived from Source 4).	Moderate/Low risk	27
		Surface water (Unnamed surface water streams)	Via site drainage and baseflow	Pollution of controlled water	Medium	Low likelihood (No previously confirmed groundwater contamination derived from Source 4).	Moderate/Low risk	28
		Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians	Damage of local ecosystem	Medium	Low likelihood (No evident of vegetation die back at this location).	Moderate/Low risk	29
		Buildings and buried structures	Direct contact with foundations/ services	Degradation of buried structures / services	Mild	Low likelihood (Limited potential to impact buildings and buried services. Future buildings/services will be designed according to the ground conditions).	Low risk	30

Potential Source (Area/ Building)	Potential Contaminant [Hazard]	Potential Receptor	Potential Pathway to Receptor	Associated Hazard	Potential Consequence of Contaminant Linkage	Likelihood of Contaminant Linkage [Probability]	Potential Significance	Item Number
Source 5 NAVFAC BFI pipeline	Hydrocarbons Diesel oil	Humans (Onsite personnel)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Unlikely (distance of receptor from source)	Low risk	31
		Humans (Onsite residents with gardens)			Medium	Unlikely (distance of receptor from source)	Low risk	32
		Humans (Onsite farmers)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors	Health risk	Medium	Unlikely (Limited potential to come into contact with contaminants as farming activity is largely superficial mechanised mowing of grass and baling of silage).	Low risk	33
		Humans (offsite residents)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Unlikely (distance of receptor from source)	Low risk	34
		Humans (offsite commercial workers)			Medium	Unlikely (distance of receptor from source)	Low risk	35
		Humans (offsite amenity users)			Medium	Unlikely (distance of receptor from source)	Low risk	36
		Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)	Leaching/ migration via groundwater	Pollution of controlled water (groundwater)	Medium	Low likelihood (There is potential for groundwater contamination derived from this previously un-investigated source).	Moderate/Low risk	37
		Surface water (Unnamed surface water streams)	Via site drainage and baseflow	Pollution of controlled water	Medium	Low likelihood (There is potential for groundwater contamination derived from this previously un-investigated source).	Moderate/Low risk	38
		Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians	Damage of local ecosystem	Medium	Unlikely (Below ground pipeline. No evidence of vegetation die back on the Site)	Low risk	39
		Buildings and buried structures	Direct contact with foundations/ services	Degradation of buried structures / services	Mild	Low likelihood (Limited potential to impact buildings and buried services. Future buildings/services will be designed according to the ground conditions).	Low risk	40

Potential Source (Area/ Building)	Potential Contaminant [Hazard]	Potential Receptor	Potential Pathway to Receptor	Associated Hazard	Potential Consequence of Contaminant Linkage	Likelihood of Contaminant Linkage [Probability]	Potential Significance	Item Number
Source 6 Current BFI/POL Point	Hydrocarbons Diesel oil Solvents	Humans (Onsite personnel)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Low likelihood (Operation and management of BFI/POL Point undertaken in accordance with H&S protocols and best practice environmental guidance).	Moderate/ Low risk	41
		Humans (Onsite residents with gardens)			Medium	Unlikely (Distance of receptor from source. Assume residents are not permitted to access current BFI/POL point).	Low risk	42
		Humans (Onsite farmers)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors	Health risk	Medium	Unlikely (Distance of receptor from source. Assume farmers do not have access to Technical Area).	Low risk	43
		Humans (offsite residents)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Low likelihood (distance of receptor from source)	Moderate/ Low risk	44
		Humans (offsite commercial workers)			Medium	Unlikely (distance of receptor from source)	Low risk	45
		Humans (offsite amenity users)			Medium	Low likelihood (Operation and management of BFI/POL Point undertaken in accordance with H&S protocols and best practice environmental guidance).	Moderate/ Low risk	46
		Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)	Leaching/ migration via groundwater	Pollution of controlled water (groundwater)	Medium	Low likelihood (Operation and management of BFI/POL Point undertaken in accordance with H&S protocols and best practice environmental guidance).	Moderate/Low risk	47
		Surface water (Unnamed surface water streams)	Via site drainage and baseflow	Pollution of controlled water	Medium	Low likelihood (Operation and management of BFI/POL Point undertaken in accordance with H&S protocols and best practice environmental guidance).	Moderate/ Low risk	48
		Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians	Damage of local ecosystem	Medium	Unlikely (Operation and management of BFI/POL Point undertaken in accordance with H&S protocols and best practice environmental guidance).	Low risk	49
		Buildings and buried structures	Direct contact with foundations/ services	Degradation of buried structures / services	Mild	Low likelihood (Limited potential to impact buildings and buried services. Future buildings/services will be designed according to the ground conditions).	Low risk	50

Potential Source (Area/ Building)	Potential Contaminant [Hazard]	Potential Receptor	Potential Pathway to Receptor	Associated Hazard	Potential Consequence of Contaminant Linkage	Likelihood of Contaminant Linkage [Probability]	Potential Significance	Item Number
Source 7- Historical POL points and former above and below ground fuel storage tanks, and small former fire training area	Hydrocarbons Diesel Solvents Fire fighting foams	Humans (Onsite personnel)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Low likelihood (Limited potential to encounter redundant tanks during routine operation).	Moderate/Low risk	51
		Humans (Onsite residents with gardens)			Medium	Low likelihood (Due to distance of source from receptor).	Moderate/Low risk	52
		Humans (Onsite farmers)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors	Health risk	Medium	Unlikely (Distance of receptor from source. Assume farmer will not access Technical Area)	Low risk	53
		Humans (offsite residents)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Unlikely Distance of receptor from source)	Low risk	54
		Humans (offsite commercial workers)			Medium	Unlikely (Distance of receptor from source)	Low risk	55
		Humans (offsite amenity users)			Medium	Unlikely (Distance of receptor from source)	Low risk	56
		Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)	Leaching/ migration via groundwater	Pollution of controlled water (groundwater)	Medium	Low likelihood (Potential for groundwater contamination, tank decommissioning data not complete).	Moderate/Low risk	57
		Surface water (Unnamed surface water streams)	Via site drainage and baseflow	Pollution of controlled water	Medium	Low likelihood (Potential for localised groundwater contamination but greater distance to surface waters).	Moderate/Low risk	58
		Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians	Damage of local ecosystem	Medium	Low likelihood (No evidence of vegetation die back observed).	Low risk	59
		Buildings and buried structures	Direct contact with foundations/ services	Degradation of buried structures / services	Mild	Low likelihood (Limited potential to impact buildings and buried services. Future buildings/services will be designed according to the ground conditions).	Low risk	60

Potential Source (Area/ Building)	Potential Contaminant [Hazard]	Potential Receptor	Potential Pathway to Receptor	Associated Hazard	Potential Consequence of Contaminant Linkage	Likelihood of Contaminant Linkage [Probability]	Potential Significance	Item Number
Source 8- Area of known asbestos contamination	Asbestos fibres Asbestos fibres	Humans (Onsite personnel)	Inhalation of asbestos fibres.	Health risk	Medium	Unlikely Asbestos is buried at depth within a capped landscaped area Asbestos warning signs are in place to deter any excavation within the area.	Low risk	61
		Humans (Onsite residents with gardens)	Inhalation of asbestos fibres.	Health risk	Medium	Unlikely Asbestos is buried at depth within a capped landscaped area Asbestos warning signs are in place to deter any excavation within the area.	Low risk	62
		Humans (Onsite farmers)			Medium	Unlikely See above. Assume farmers will not have access to the Technical Area.	Low risk	63
		Humans (offsite residents)	Inhalation of asbestos fibres.	Health risk	Medium	Unlikely Asbestos is buried at depth within a capped landscaped area. No risk of wind blown fibres.	Low risk	64
		Humans (offsite commercial workers)			Medium	Unlikely See above	Low risk	65
		Humans (offsite amenity users)			Medium	Unlikely See above	Low risk	66
Source 9- Former electricity distribution substations	PCBs and hydrocarbons	Humans (Onsite personnel)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Unlikely (Potential contaminants associated with electrical substations and transformers are limited to discrete, restricted areas likely to mostly be used only by trained operatives with appropriate PPE)	Low risk	67
		Humans (Onsite residents with gardens)			Medium	Unlikely (Residents will not be coming interacting with electrical substations).	Low risk	68
		Humans (Onsite farmers)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors	Health risk	Medium	Unlikely (Limited potential to come into contact with source. Mechanised grass mowing and silage baling undertaken on site).	Low risk	69
		Humans (offsite residents)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Unlikely (distance of receptor from source, PCBs considered fairly immobile)	Low risk	70
		Humans (offsite commercial workers)			Medium	Unlikely (distance of receptor from source, PCBs considered fairly immobile)	Low risk	71
		Humans (offsite amenity users)			Medium	Unlikely (distance of receptor from source)	Low risk	72

Potential Source (Area/ Building)	Potential Contaminant [Hazard]	Potential Receptor	Potential Pathway to Receptor	Associated Hazard	Potential Consequence of Contaminant Linkage	Likelihood of Contaminant Linkage [Probability]	Potential Significance	Item Number
Source 9- Former electricity distribution substations	PCBs and hydrocarbons	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)	Leaching/ migration via groundwater	Pollution of controlled water (groundwater)	Medium	Unlikely (Any associated contamination is likely to be localised. PCBs are not readily leachable).	Low risk	73
		Surface water (Unnamed surface water streams)	Via site drainage and baseflow	Pollution of controlled water	Medium	Unlikely (Any associated contamination is likely to be localised. PCBs are not readily leachable).	Low risk	74
		Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians	Damage of local ecosystem	Medium	Unlikely (No evidence of vegetation die back across the Site)	Low risk	75
		Buildings and buried structures	Direct contact with foundations/ services	Degradation of buried structures / services	Mild	Low likelihood (Limited potential to impact buildings and buried services. Future buildings/services will be designed according to the ground conditions).	Low risk	76
Source 10- Redundant OWIs	Hydrocarbons Diesel oil	Humans (Onsite personnel)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Low likelihood (Limited potential to make contact with contamination derived from Source 10).	Moderate/Low risk	77
		Humans (Onsite residents with gardens)			Medium	Unlikely (distance of receptor from source)	Low risk	78
		Humans (Onsite farmers)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors	Health risk	Medium	Unlikely (Distance of source from the receptor. No farming activity is undertaken in proximity to any of the redundant OWs. Farming activity largely superficial mechanised mowing of grass and baling of silage).	Low risk	79
		Humans (offsite residents)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Low likelihood (distance of receptor from source)	Moderate/ Low risk	80
		Humans (offsite commercial workers)			Medium	Unlikely (distance of receptor from source)	Low risk	81
		Humans (offsite amenity users)			Medium	Low likelihood (distance of receptor from source)	Moderate/Low risk	82

Potential Source (Area/ Building)	Potential Contaminant [Hazard]	Potential Receptor	Potential Pathway to Receptor	Associated Hazard	Potential Consequence of Contaminant Linkage	Likelihood of Contaminant Linkage [Probability]	Potential Significance	Item Number
Source 10- Redundant OWIs	Hydrocarbons Diesel oil	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)	Leaching/ migration via groundwater	Pollution of controlled water (groundwater)	Medium	Low likelihood (Potential for structural defects within redundant OWIs)	Moderate/Low risk	83
		Surface water (Unnamed surface water streams)	Via site drainage and baseflow	Pollution of controlled water	Medium	Low likelihood (Potential for structural defects within redundant OWIs. Surface water likely to be in hydraulic continuity with groundwater beneath the Site).	Moderate/Low risk	84
		Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians	Damage of local ecosystem	Medium	Low likelihood (There is potential for sensitive ecology to interact with water contained within the redundant OWIs).	Moderate/Low risk	85
		Buildings and buried structures	Direct contact with foundations/ services	Degradation of buried structures / services	Mild	Low likelihood (Limited potential to impact buildings and buried services. Future buildings/services will be designed according to the ground conditions).	Low risk	86
Source 11- Aircraft parking, airfield use and crashes	Hydrocarbons Aviation fuel Solvents	Humans (Onsite personnel)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Low likelihood (Unlikely to come into contact with contamination derived from Source 11).	Moderate/Low risk	87
		Humans (Onsite residents with gardens)			Medium	Unlikely (distance of receptor from source)	Low risk	88
		Humans (Onsite farmers)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors	Health risk	Medium	Low likelihood (Limited potential to come into contact with contamination as farming activity largely superficial mechanised grass mowing and silage baling).	Moderate/Low risk	89
		Humans (offsite residents)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Unlikely (distance of receptor from source)	Low risk	90
		Humans (offsite commercial workers)			Medium	Unlikely (distance of receptor from source)	Low risk	91
		Humans (offsite amenity users)			Medium	Unlikely (distance of receptor from source)	Low risk	92

Potential Source (Area/ Building)	Potential Contaminant [Hazard]	Potential Receptor	Potential Pathway to Receptor	Associated Hazard	Potential Consequence of Contaminant Linkage	Likelihood of Contaminant Linkage [Probability]	Potential Significance	Item Number
Source 11- Aircraft parking, airfield use and crashes	Hydrocarbons Aviation fuel Solvents	Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)	Leaching/ migration via groundwater	Pollution of controlled water (groundwater)	Medium	Low likelihood (Potential for groundwater contamination beneath previously un-investigated areas of the airfield).	Moderate/Low risk	93
		Surface water (Unnamed surface water streams)	Via site drainage and baseflow	Pollution of controlled water	Medium	Low likelihood (Potential for groundwater contamination beneath previously un-investigated areas of the airfield).	Moderate/Low risk	94
		Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians	Damage of local ecosystem	Medium	Unlikely (No evidence of vegetation die back observed).	Low risk	95
		Buildings and buried structures	Direct contact with foundations/ services	Degradation of buried structures / services	Mild	Low likelihood (Limited potential to impact buildings and buried services. Future buildings/services will be designed according to the ground conditions).	Low risk	96
Source 12- Infilled quarries/gravel pits, linear mound at the end of the runway rending SSW to NNE	Metals Hydrocarbons Asbestos and ground gas	Humans (Onsite personnel)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Unlikely (distance of receptor from source)	Low risk	97
		Humans (Onsite residents with gardens)			Medium	Unlikely (distance of receptor from source)	Low risk	98
		Humans (Onsite farmers)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors	Health risk	Medium	Unlikely (Limited potential to come into contact with contamination as farming activity largely superficial mechanised grass mowing and silage baling).	Low risk	99
		Humans (offsite residents)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Unlikely (distance of receptor from source)	Low risk	100

Potential Source (Area/ Building)	Potential Contaminant [Hazard]	Potential Receptor	Potential Pathway to Receptor	Associated Hazard	Potential Consequence of Contaminant Linkage	Likelihood of Contaminant Linkage [Probability]	Potential Significance	Item Number
Source 12- Infilled quarries/gravel pits, linear mound at the end of the runway rending SSW to NNE	Metals Hydrocarbons Asbestos and ground gas	Humans (offsite commercial workers)	Ingestion, dermal contact, inhalation of soil derived dust and vapours outdoors and via accumulation indoors.	Health risk	Medium	Unlikely (distance of receptor from source)	Low risk	101
		Humans (offsite amenity users)			Medium	Unlikely (distance of receptor from source)	Low risk	102
		Groundwater (Superficial Secondary A Aquifer and Secondary B Aquifer within solid geology)	Leaching/ migration via groundwater	Pollution of controlled water (groundwater)	Medium	Low likelihood (There is potential for localised contamination associated with previously un-investigated linear mound)	Moderate/ Low risk	103
		Surface water (Unnamed surface water streams)	Via site drainage and baseflow	Pollution of controlled water	Medium	Low likelihood (There is potential for localised contamination associated with previously un-investigated linear mound)	Moderate/ Low risk	104
		Flora and Fauna	Uptake by plant roots and direct contact, ingestion and inhalation of contaminated soil/dust/contaminated waters by invertebrates, birds, mammals, reptiles, and amphibians	Damage of local ecosystem	Medium	Unlikely (No evidence of vegetation die back observed on site).	Low risk	105
		Buildings and buried structures	Direct contact with foundations/ services	Degradation of buried structures / services	Mild	Unlikely (Limited potential to impact buildings and buried services. Future buildings/services will be designed according to the ground conditions).	Low risk	106
Off site								
Source 13- Former Brawdy Farm sand pit	Ground gases	Humans (Onsite personnel)	Inhalation of ground gases and vapours	Health risk	Medium	Unlikely (Due to distance of receptor from source).	Low risk	107
		Humans (Onsite residents with gardens)			Medium	Unlikely (Due to distance of receptor from source).	Low risk	108
		Humans (Onsite farmers)			Medium	Unlikely (Farming activity undertaken outdoors, limited potential for inhalation of gases and vapours).	Low risk	109
		Flora and Fauna	Inhalation of ground gases and vapours by invertebrates, birds, mammals, reptiles, and amphibians	Damage of local ecosystem	Medium	Unlikely (Limited potential for inhalation of gases and vapours).	Low risk	110

RISK ASSESSMENT METHODOLOGY AND DEFINITIONS

Methodology

The environmental risk assessment in this LQA report is based upon a formalised tiered system of risk estimation which aims to identify significant environmental risks that may require further investigation or indicate a potential for exposure to legal or financial liability.

Risk screening (Tier 1 of the framework for environmental risk assessment) can identify priority risks and determine which hazards or risks should be investigated in greater detail. If the initial Tier 1 assessment indicates little potential for concern then there is no justification in undertaking more detailed and sophisticated assessments (e.g. Tier 2 and 3 quantitative analysis).

The risk evaluation methodology used is consistent with guidance published in the following documents:

- DEFRA Guidelines for Environmental Risk Assessment and Management, Revised Departmental Guidance, November 2011;
- CIRIA C552. Contaminated Land Risk Assessment, A Guide to Good Practice 2001;
- DEFRA, Environmental Protection Act 1990, Part 2A, Contaminated Land Statutory Guidance, April 2012, and;
- Environment Agency, Land Contamination Risk Management (LCRM), Accessed June 2021.

Environmental risk (DETR 2011) is evaluated by the following stages:

1. Identifying the possible hazards;
2. Assessing the consequences arising from a hazard;
3. Determining the probability of consequences occurring, and;
4. Charactering the significance of the overall risk.

In this LQA report a formalised system is used to classify both the:

- probability of a hazard occurring, and;
- potential severity of the hazard occurring.

Definitions

In order to estimate the significance of risks to various receptors arising at the study site each of the five stages has been undertaken. The risk classification system used for this LQA adopts the following terminology:

Definitions for classification of **likelihood** of hazard-receptor linkage.

High Likelihood:	An event is very likely to occur in the short term, and is almost inevitable over the long term OR there is evidence at the receptor of harm or pollution.
Likely:	It is probable that an event will occur. It is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood:	Circumstances are possible under which an event could occur. It is by no means certain that even over a longer period such an event would take place, and less likely in the short term.
Unlikely:	It is improbable that an event would occur in the very long term.

Definitions for classification of potential **consequence** of hazard-receptor linkage

Severe	• Acute risks to human health • Short-term risk of pollution of controlled waters e.g. major spillage into controlled waters). • Impact on controlled wastes e.g. large scale pollution or very high levels of contamination. • Catastrophic damage to buildings or property (e.g. explosion causing building collapse). • Ecological system effects – irreversible adverse changes to a protected location. Immediate risks.
Medium	• Chronic risks to human health • Pollution of sensitive water resources (e.g. leaching of contaminants into controlled waters). • Ecological system effects – substantial adverse changes to a protected location. • Significant damage to buildings, structures and services (e.g. damage rendering a building unsafe to occupy, such as foundation damage).
Mild	• Non-permanent health effects to human health • Pollution of non-sensitive water resources (e.g. pollution of non-classified groundwater). • Damage to buildings, structures and services (e.g. damage rendering a building unsafe to occupy, such as foundation damage). • Substantial damage to non-sensitive environment (e.g. crops).
Negligible	• Non-permanent health effects to human health (easily prevented by appropriate use of PPE). • Minor pollution to non-sensitive water resources • Minor damage to non-sensitive environments (e.g. crops). • Easily repairable effects of damage to buildings, structures, services or the environment (e.g. discolouration of concrete, loss of plants in a landscaping scheme).

The combination of **likelihood** (probability) and **consequence** gives an overall environmental risk, as identified by the risk matrix below:

		Consequence			
		Severe	**Medium**	**Mild**	**Negligible**
Probability	**High Likelihood**	Very High Risk	High Risk	Moderate Risk	Moderate/ Low Risk
	Likely	High Risk	Moderate Risk	Moderate/ Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate/ Low Risk	Low Risk	Negligible Risk
	Unlikely	Moderate/ Low Risk	Low Risk	Negligible Risk	Negligible Risk

The above risk categories are likely to result in the following actions:

Very high: urgent intervention / investigation needed, remediation likely to be required;

High: urgent intervention / investigation needed, remediation possibly required in short term and probably required in long term;

Moderate: investigation needed to clarify and refine risk; remediation may be required over the long term;

Low: it is possible that harm could arise to a receptor, but if realised, such harm is likely to be, at worst, mild, or;

Negligible: it is possible that harm could arise to a receptor, but if realised, such harm is unlikely to worse than mild.