



Pennant Walters Ltd

Trecelyn Wind Farm

Phase 1 Geoenvironmental Desk Study



November 2023

Report for

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Document revisions

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Executive summary

Purpose of this report

The purpose of this report is to inform the Ground Conditions chapter of the Environmental Statement for the planning application for the Trecelyn Wind Farm (“the Proposed Development”). With reference to Planning Policy Wales, the report will assist in determining whether the Proposed Development Site (hereinafter “the Site”) is suitable for its proposed use. The Proposed Development comprises up to four wind turbines, transformer/substation, associated infrastructure and a link to the transmission grid. The report has been prepared using publicly available information provided by third parties and is informed by a site walkover.

Background

The development Site is located on the upper of ridges that extend to the west and southwest of the mastiff formed by Mynydd Llwyd, Mynydd Twyn-glas and Mynydd Maen located near the town of Trecelyn, Caerphilly, South Wales. Superficial deposits have been identified as limited or absent across much of the Site but where present comprise Alluvium associated with river networks in the area. A previous peat survey at the Site concluded that the Site is considered absent of peat deposits. Bedrock is anticipated to be at shallow depth across the Site, comprising the Carboniferous South Wales Upper Coal Measures Formation, of which the Hughes Member (sandstones with small, localised areas of mudstone and siltstone) underlies the Proposed Development land parcels. No significant historical development has been identified on the Site, with the predominantly agricultural land use. Areas of forestry are present both on Site and off Site on the valley slopes.

Historical mining activity has been identified beneath the Site and in the wider area, including recorded and suspected unrecorded underground mining. The recorded undermining beneath the Site is related to historical activities in the surrounding valleys, and area of potential mining risk have been identified.

Conclusions

Contamination

The Site is primarily used for agriculture, mainly sheep grazing, with some cattle and poultry present, and based on the presence of orchards adjacent to the north parcel, some limited potential for future crops. Minor contamination sources have been identified as potential residual mine waste/ spoil (likely to be limited in extent if present), current and former agricultural activities, active diesel tanks, potentially asbestos containing waste in stockpiles, infilled ground (made ground) and a burning pit. The sources identified are small-scale and localised or diffuse in nature. The coal mining history of the Site also means that there is potential for mine gas to be present.

The risks to current site users' human health from potential contaminants in soils arising from mining waste, agricultural operations are assessed to be very low. In relation to potential metal / other contamination in mine waste, there is no evidence of vegetation dieback at surface that could indicate large areas of near surface contamination. Future Site users, including agricultural workers, wind farm workers and open space users, are unlikely to disturb contaminated soil during normal Site usage. Low risks have been assigned to human health risk from potential

contaminants associated with active diesel tanks and waste stockpiles in the northern parcel. A low risk to current site users is also assigned to mine gas (given the limited presence of enclosed spaces currently present).

Human health risks associated with the infilled land in the south have been allocated a moderate/low risk rating for both current and future site users associated with waste stockpiles (potentially with asbestos content), and infilled ground and the burning ground in the south land parcel. Risks to future site users associated with mine gas also been assessed as moderate/low given that the Proposed Development will introduce limited enclosed spaces where gas could accumulate, although these will be used infrequently. The risk level reflects the severity of consequence of a contaminant linkage being realised and can be lowered through further investigation including gas monitoring.

Risks to surface water are assessed to be very low, as surface water receptors are either not located near potential sources, or the source, if present, is likely to be of limited extent and unlikely to result in significant degradation of water quality.

The risks to groundwater from the identified sources are assessed to be very low for onsite sources, and low for the offsite quarry, given the nature of the sources and the likelihood that groundwater in the bedrock aquifer is likely to be at depth and likely to have been impacted by historical mining activities in the wider area.

Risks to future buildings and infrastructure have been assessed as low to very low given the generally limited nature of the sources and the distance from sources to the proposed buildings and infrastructure.

Risks to future agricultural property (cattle, poultry, sheep, crops) due to the potential for the Proposed Development construction works to encounter residual unrecorded mine wastes are assessed as very low, this is on the basis that mine waste is likely to be limited / localised if present, and reused soils will be subject to materials management planning and assessed to be suitable for use before being used within the Proposed Development.

As previously discussed, the conceptual model does not consider risks to construction /Site maintenance workers on the basis that risks to workers will be dealt with under the Health and Safety at Work Act (1974) and regulations made under the Act. Site-specific contamination data obtained through subsequent assessments of the Site should be included in the health and safety file for the proposed works, to enable any contractors to address as necessary in their risk assessments and method statements.

Geotechnical

A review of geohazards has identified potential constraints for the Proposed Development. The Site has been and currently is primarily used for agriculture, therefore no historically significant development has been identified. Constraints include possible weathering of shallow bedrock, localised slope instability and the presence of acidic soils either due to the presence of peat (thin surface layer has been confirmed on parts of the Site) or sulphate minerals associated with the bedrock strata.

A utilities survey was undertaken on the Site in 2001 that identifies both overhead and underground services. These services do not pose a risk to development on Site if they are taken into consideration during planning of both intrusive investigation works and permanent developments.

The Coal Authority identifies the area as being in an area of surface coal resources with some areas of high risk development across the Site.

These constraints will require further assessment as part of the detailed design process prior to construction of the Proposed Development, and it is recommended that intrusive ground investigation is undertaken to inform this assessment.

Recommendations

The desk-based assessment has identified some potential contamination constraints associated with the proposed future wind farm use of the Site. No ground investigation data is currently available.

The potential land contamination constraints can be mitigated through targeted ground investigation to include soil sampling, groundwater monitoring and sampling (if groundwater is encountered) and gas monitoring where buildings / enclosed spaces are to be constructed. The soil and groundwater testing suites should target the potential contaminants identified for the relevant sources. The investigation should be used to confirm the presence/absence of contamination in shallow soils in areas where development is proposed. Method statements for pre construction ground investigations and the construction phase of the Proposed Development should include procedures for encountering unexpected contamination, and Environmental Management Plans to prevent the release of contaminants to ground. The findings of ground investigations and soil testing should inform the detailed design of the Proposed Development and the design of any required remedial measures. It is recommended that this report and all previous reports be thoroughly consulted and incorporated where required into the package of information for the Site for any ground works.

A programme of intrusive investigation works with associated testing and monitoring for gas and groundwater should be undertaken at the proposed turbine and substation locations, and where mine related features occur beneath access/internal roads.

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Annex A Coal Mining Risk Assessment

Annex B Envirocheck Report and Historical Maps

Annex C Cornerstone (2021) Utilities Search Report

Annex D Wood (2021) Peat Depth Survey Report

Annex E Site walkover photographs

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1. Introduction

Background This report presents a Phase 1 Geo-environmental Desk Study at Trecelyn in Caerphilly, South Wales, where Pennant Walters is seeking planning permission for the construction and operation of a wind farm and associated infrastructure (the Proposed Development). Details of the Proposed Development are provided in **Table 2.1**.

For the purposes of this report, the term “the Site” has been used to refer to the total land area encompassed by the Proposed Development boundary.

The Proposed Development requires environmental impact assessment (EIA) because it falls under paragraph 3(i) (“Installations for the harnessing of wind power for energy production (wind farms)” of Schedule 2 of the EIA Regulations and exceeds its thresholds for both Site area and hub height. As the installed generating capacity of the Proposed Development would exceed 10 megawatts (MW), it qualifies as a Development of National Significance (DNS) according to the criteria set out in Regulation 4A of The Developments of National Significance (Specified Criteria and Prescribed Secondary Consents) (Wales) (Amendment) Regulations 2016.

Purpose of the report The purpose of this report is to inform the Environmental Statement (ES) to support the planning application for the Proposed Development, in particular Chapter 11 Ground Conditions of the ES. With reference to Planning Policy Wales¹, the report will assist in determining whether the Site is suitable for its proposed use. An accompanying Coal Mining Risk Assessment (CMRA) has been produced for the Proposed Development. The CMRA should be read in conjunction with this Phase 1 Geo-environmental Desk Study and is included as **Annex A** to this report.

Scope of work The scope of work of this Phase 1 Geo-environmental Desk Study includes the following:

- Identification and review of selected contemporary information including geological, environmental, hydrological, and hydrogeological data, where available, for the Site and its surroundings.
- Review of historical mapping for the Site and its surroundings to determine the historical land uses and to identify potential contaminative activities.
- A walkover of the key elements of the Site (conducted on 27 September and 4 October 2023) to identify potential evidence of contamination and verify selected desk study information.
- Development of a Conceptual Model (CM) and completion of a Tier 1: Preliminary Risk Assessment, to assess the status of any potential contamination and identify any potentially significant contaminant linkages that require further consideration in line with current guidance including the Land Contamination Risk Management (LCRM) guidance published by the Environment Agency².
- Identification of information gaps, geo-environmental development constraints and any requirements for further assessment.

Sources of information The following sources of information were reviewed during the preparation of this desk study:

¹ Welsh Government (2021) *Planning Policy Wales, Edition 11, February 2021*. [online]. Available at: https://gov.wales/Sites/default/files/publications/2021-02/planning-policy-wales-edition-11_0.pdf. [Accessed August 2023].

² Environment Agency (2020) Land contamination risk management (LCRM): *How to assess and manage the risks from land contamination*. Published 8 October 2020. Last updated 20 July 2023 [Online]. Available at: <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>. [Accessed August 2023].

- Landmark Envirocheck reports: Order Number: 315135944_1_1, 3 August 2023 (northern land parcel), and Order Number: 315136209_1_1, 3 August 2023 (central and southern land parcels). (Annex B)
- Cornerstone (2021) Utilities Search Report, Wood E&IS, Mynydd Maen (Annex C).
- Wood (2021) Technical Note: Trecelyn Wind Farm – Peat Depth Survey Report (Doc ref. Doc Ref: 807379-WOOD-RP-OG-00001_P01.01, November 2021). (Annex D).
- Consultants Coal Mining Report (CCMR), Mynydd Y Glyn, Rhondda Cynon Taf, The Coal Authority, Reference 51002644897001, 03 September 2021 (included in Annex A).
- British Geological Survey (BGS) GeoIndex. [Online]. Available at: <https://www.bgs.ac.uk/map-viewers/geoindex-onshore/>.
- British Geological Survey (BGS) 1:10,560 geological sheet map ST29NW, solid and drift 1972
- Welsh Government. DataMap Wales. [Online]. Available at: <https://datamap.gov.wales/maps/new#/>.
- Coal Authority Interactive Map viewer, <http://mapapps2.bgs.ac.uk/coalauthority/home.html>, accessed August 2023
- Site walkover by geotechnical and contaminated land consultants from WSP on 27 September and 4 October 2023.
- Multi Agency Geographic Information for the Countryside (MAGIC) interactive map, www.magic.gov.uk, accessed August/September 2023.
- Natural Resources Wales (NRW) interactive map viewer, <https://naturalresources.wales/evidence-and-data/maps/browse-map-of-data-about-the-natural-environment/?lang=en>, accessed August/September 2023.
- Flood Risk Assessment Wales Map, <https://naturalresourceswales.gov.uk/flooding/check-your-flood-risk-on-a-map-flood-risk-assessment-wales-map/?lang=en>, accessed August/September 2023.
- BGS, GeoIndex, <http://mapapps2.bgs.ac.uk/geoindex/home.html>, accessed August/September 2023.
- BGS, Geology of Britain Viewer, <http://mapapps.bgs.ac.uk/geologyofbritain/home.html>, accessed August/September 2023;

Limitations

The conclusions reached and advice given in this report are based in part upon information and/or documents that have been prepared by third parties. In view of this, we accept no responsibility or liability of any kind in relation to such third-party information and no representation, warranty or undertaking of any kind, express or implied, is made with respect to the completeness, accuracy, or adequacy of such third-party information. In preparing this report we have assumed that all information provided by the Client is complete, accurate and not misleading.

2. Site details and environmental context

2.1 Site details

Table 2.1 Site details

Item	Details
Site location	<p>The Site is located in Newbridge / Trecelyn in the county of Caerphilly, South Wales to the west side of Mynydd Maen. The Site is effectively formed of three areas, a northern land parcel, central land parcel and a southern land parcel, which are linked by an existing single-track road oriented roughly north to southwest, between Crumlin and Abercarn. The Approximate post codes for the land parcels are as follows:</p> <ul style="list-style-type: none">• North land parcel - NP11 5AY• Central land parcel - NP11 5BS• South land parcel - NP11 5BS <p>The site location is shown in Figure 2.1.</p>
Grid reference	<p>Approximate central grid references for the three land parcels are as follows:</p> <ul style="list-style-type: none">• North land parcel – 323399, 198167• Central land parcel – 323236, 197006• South land parcel – 323003, 196269
Site address	<p>Address details for the Site are as follows:</p> <ul style="list-style-type: none">• The north land parcel is located in Crumlin, Caerphilly County Borough.• The central and south land parcels are located in Panside, Abercarn, Newbridge, Caerphilly County Borough.
Site description	<p>The Site is located on the upper slopes of ridges that extend to the west and southwest of the masiff formed by Mynydd Llwyd, Mynydd Twyn-glas and Mynydd Maen. This massif is the most south-easterly part of the extensive area of steeply incised uplands usually referred to as the South Wales Valleys. To the east of the massif lies a complex topography of undulating low hills either side of the Afon Llwyd, whilst to the west, the Ebbw River occupies the first of a series of steeply incised valleys on a north/south alignment.</p> <p>The south and central land parcels are separated from Mynydd Maen, to the east, by the deeply incised and heavily afforested valleys of Nant Gwyddon, which also extends to the immediate south of the Site before joining the Ebbw River at Abbercarn. To the north, the Site is separated from the Cefn Crib/Mynydd Llanhilleth massif by Cwm y Glyn, which runs eastwards towards Pontypool, and by the valley of a minor tributary of the Ebbw River to the west. To the west of the Site, several tributaries of the Ebbw River have created a complex of ridges and valleys that reduce in elevation westward toward the valley of the Ebbw River. The most southerly of these, adjacent to the south and central parcels of the Site, is the steep-sided Cwm Hafod-fach, the northern end of which is occupied by the Hafod Fach sandstone quarry. The north land parcel extends westward as far as the much more open valley of Nant Gawni.</p> <p>The three land parcels of the Site are connected by a single minor road that runs in an arc from Abercarn in the south to its junction with the minor road between Newbridge and Hafodyrynys in the north. The northern part of the Site is host to a section of a 132kV overhead electricity transmission line supported by steel lattice towers. This line</p>

Item	Details
	<p>traverses the Site on a broadly east/west alignment, climbing from the valley of the Ebbw River in the west and attaining a maximum altitude of approximately 460m Above Ordnance Datum (AOD) in the vicinity of the communication masts on Mynydd Llwyd, ~1.2km to the east.</p> <p>The Site's land-use almost entirely consists of a mosaic of small and medium-sized fields that appear to generally be given over to pasture, although aerial photography indicates that some fields may occasionally be used for arable cultivation. Field boundaries, particularly in the southern part of the Site, appear to consist of hedgerows that have been allowed to grow out to rows of mature hawthorn. Remnant stone walls reinforced by post and wire fencing are apparent along the edge of the minor road within the south land parcel of the Site.</p> <p>The south land parcel is abutted by extensive coniferous commercial forestry within Nant Gwyddon to the east and a mix of deciduous woodland and coniferous forestry within Cym Hafod Fach to the west, although time-series aerial photography³ indicates that the coniferous forestry has been subject to substantial felling in recent years. Coniferous forestry also abuts the north land parcel within Cwm y Glyn to the north and Nant Gawni to the west. The easternmost section of the north land parcel extends onto the unenclosed semi-improved or unimproved grassland on the western flank of Mynydd Llwyd.</p> <p>Public Rights of Way (PROW) run through the north and south land parcels. The western section of the north land parcel is traversed by a restricted byway which also runs adjacent to its western boundary. The eastern section of the north land parcel is traversed by a public footpath, which also runs adjacent to its northern boundary, with another public footpath running adjacent to its southern boundary. The south land parcel is traversed by a public footpath, with another running along its eastern boundary and a bridleway along its north-western boundary. A plan of existing PROW is included as Figure 2.2. Both the central and north land parcels abut the extensive area of open access land that covers most of the Mynydd Maen/Mynydd Llwyd massif.</p> <p>Glan Shon Farm is located within the south land parcel and Cil-lonydd farm is located approximately 300m west of the central land parcel. At the north land parcel Site, Pen-y-Caeau farmstead is located to the immediate north, Blaengawney Farm to the immediate south and Cefn-rhos-y-bedd-uchaf approximately 300m west.</p> <p>The nearest settlements to the Site are Hafodyrynys approximately 400m to the north, Panside and Swffryd Bronawelon approximately 700m to the north-west and west respectively. The northern and eastern parts of Abercarn (Llanfach, Persondy, Celynen and High Meadow) are between approximately 450m and 900m to the southwest. Other parts of Abercarn and parts of Newbridge/Trecelyn and Crumlin are located in the Ebbw valley within 2km west of the Site.</p>

Boundaries and adjacent/ nearby land uses	Compass direction	Boundary type	Adjacent land use	Nearby land use (within 250m)
	North	Woodland, dry stone walls/wooden post and wire fence/ open	Agricultural fields and dense woodland/ forestry (north of Ty Owen), orchards southwest of north parcel at Blaengawney Farm (Halletts Cider)	Agricultural Fields and dense woodland/ forestry/public footpaths

³ Google Earth Professional, accessed September 2023

Item	Details			
	East	Road/wooden post and wire fence/open	Agricultural fields and dense woodland/ forestry and public rights of way	Agricultural Fields and dense woodland/ forestry/public footpaths
	South	Dry stone walls/wooden post and wire fence/ open	Agricultural fields and dense woodland/ forestry, public rights of way (south of Glan Shon Farm),	Agricultural fields, woodland, residential property
	West	Dry stone walls/wooden post and wire fence/ open	Predominantly grazing/rough grassland with areas of forestry further afield. A quarry is located to the west of the southern parcel	Hafod Asphalt Plant/sandstone quarry/forestry/ agricultural fields

Current Site activities Current Site activities within the Site are limited to agricultural use. Glan Shon Farm in the south land parcel currently farms cattle and poultry. Ty Oakley Farm at the north parcel comprises a sheep farm. The main land use across the Site is sheep grazing, predominantly on improved or semi-improved moorland. Small developments are present within the Site including other farms and public rights of way. An active sandstone quarry (thought to be extracting material for local dry-stone walls) is present in the north parcel, in a field to the east of Pen Y Caeau Farm.

Site walkover observations A walkover of the site was undertaken by geotechnical and contaminated land consultant from WSP on 27 September and 4 October 2023. The observations made were limited to areas allowing safe access and where agreement from landowners had been obtained; including Ty Oakley Farm in the north and Glan Shon Farm in the south. Photographs taken during the walkover are presented in **Annex E**.

No evidence of major spillages of chemicals or oils (staining or vegetation die back) were noted across the site during the walkover. Occasional empty disused drums or barrels were noted across both farms (Ty Oakley Farm and Glan Shon Farm) with limited numbers of filled drums observed within barns on hardstanding, none stored externally. Drip trays for chemicals were noted as in use on both farms.

Overhead cables were observed across the north land parcel as well as a buried gas main running east-west across the northeast of this parcel.

Glan Shon Farm (south land parcel)

Two separate stockpiles of building waste were observed and noted as containing brick, stone, tile, ceramics and possible asbestos containing materials. The first stockpile was located east of the farm buildings and at the field boundary (E:322677, N:196004) and measuring approximately 2m x 15m x 70m (circa 2,100m³ of material). This stockpile presented as a deposit of waste made ground used to build up the bank on which it was situated, sitting at approximately 2m high. Its composition, including a variety of brick and stone, suggested the material is derived from multiple sources. The second stockpile was situated north of the farm buildings adjacent to some trees (E:322496, N:196073) and comprised a cluster of piles of building waste with several suspected asbestos containing fragments (cement bonded roofing/cladding) observed.

A burn pit was also observed at Glan Shon Farm, adjacent to the farm track leading northeast from the buildings (E:322729, N:196070). The pit contained plastics, wood, metal, mattresses and other domestic waste seen partially combusted.

Item	Details
	<p>An above ground storage tank (diesel) was noted at the farm in the form of a 2,500L self-bunded plastic tank inside a cage adjacent to a barn (E:322493, N: 195969). This was sat on a concrete plinth.</p> <p>Suspected asbestos containing materials were noted as present in building structures including gutters, cladding and roofing on barns.</p> <p><u>Ty Oakley Farm (north land parcel)</u></p> <p>As previously mentioned, an active sandstone quarry is present at the farm (E:323453, N:198188) and is thought to be used for local dry stone wall materials.</p> <p>A stockpile of waste material was observed near the barn in the northwest of the farm (E:322841, N:198390) containing building materials, aggregate, wood, metals, plastics, disused silos, and farm machinery. No potential asbestos containing material was observed.</p> <p>An underground septic tank was present in the northwest, close to the farmhouse (E:322849, N:198305), of unknown capacity. An above ground storage tank (diesel) was also observed, north of the barn (E:322877, N: 198363), comprising a 5,000L self-bunded plastic tank positioned straight onto the ground (not on a plinth/platform).</p> <p>A spring was present running south-westwards (downhill) along the boundary of the field and copse south of the sheepfold (E: 323586, N: 197877). Waterlogged ground was observed up to 10m north of the treeline and water was seen occasionally pooled on the ground surface. A stream was noted in the northeast of the farm, running from south to north and bisecting the site adjacent to the copse (E: 323586, N: 197877) and continuing northwards offsite.</p>
Services	<p>The following summary is based on service plans obtained in 2021 for the purposes of peat survey (utility plans are presented in Annex C and the peat survey report is included as Annex D). Services can be subject to change over time and this information should therefore not be relied upon for safety planning for any intrusive ground works or works that may encounter overhead cables.</p> <p>A plan of the identified utilities constraints based on the 2021 data is including as Figure 2.3.</p> <p>Electric</p> <p>Western Power Distribution record overhead high voltage (HV) electrical cables running through the north land parcel roughly west to east. Below ground HV (11kV) cables are also shown, roughly following the Site boundary line in the west of the north land parcel east then south to properties south of the north land parcel (Blaengawney MTB Bunkhouse / Farm and Hallets Cider). From the western boundary there is a cable branching northeast to connect to Ty Oakley Farm and continuing east southeast following the onsite access road until beyond the eastern boundary of the north land parcel. An underground HV cable crosses the southern boundary of the south land parcel and runs north to connect to the onsite farm property.</p> <p>Gas</p> <p>Wales and West Utilities record a high-pressure gas main in the north land parcel, this crosses the northern boundary centrally onsite to run south, then turns eastwards passing north of the farm property in the east of the Site and crossing the eastern boundary. An intermediate pressure gas main crossing the access road onsite between the north and central land parcels.</p>

Item	Details
	<p>Water Welsh Water information shows that the proposed site access road (in the northwest of the Proposed Development) connecting to Old Pant Road crosses a watermain at two locations.</p> <p>Sewer Welsh Water record no sewer pipes on the Site.</p> <p>Telecommunications BT record a telecommunications cables running through the north land parcel, crossing the western boundary and running from west to east, to the south of Ty Oakley Farm to 'The Barn' / Pen Y Caeau Farm, with a branch running southwest towards properties south of the northern land parcel (Blaengawney MTB Bunkhouse and Hallets Cider). Telecommunications cable is also shown at the western boundary of the south land parcel, the cable runs northwards to the east of (and parallel to) the access road at the western boundary, then turns east to connect to the onsite farm property.</p>
Proposed development	<p>The Proposed Development consists of the following elements (indicative layout as shown on Figure 2.4):</p> <ul style="list-style-type: none"> • Up to four wind turbines. • Substation and transformer housing (Nation Grid Electricity Distribution (NGED)). • Temporary contractor's compound. • Temporary Site offices. • Crane pads and cabling. • Access track construction. <p>Available design information indicates that the grid connection point will be to a 132kV line that passes over the land in the Site's north land parcel, and which is to be delivered by National Grid. Pennant Walters has accepted a Point of Connection (POC) with the landowner to access this 132kV line. As the wind farm is split over three parcels of land, these parcels would be connected through underground cabling before connecting to the 132 kV line.</p>

2.2 Environmental context

Table 2.2 Site details

Item	Details
Site elevation and topography	<p>The Site topography generally slopes down from east to west/southwest, into the valleys associated with tributaries of the Afon Ebwy (Nant Gawnie and Nant Hafod-fach) (see Figure 2.5).</p> <p>The north land parcel is at an approximate elevation of between 310m and 410m AOD and slopes down from east to west. The central land parcel is at an approximate elevation of between 345m and 355m, with a gradual fall from east to west towards the Nant Hafod-fach valley. The south land parcel is at an approximate elevation of between 290m and 350m AOD and slopes down from northeast to southwest towards the Nant Hafod-fach valley. The lowest in the surrounding area are associated with the Ebwy valley, which ranges from 110m AOD to the north and 80m AOD to the south.</p>

Item	Details
	The south and central land parcels are located near the top of the ridge between Nant Gwyddon, to the east, and Cwm Hafod Fach, to the west. The summit of the ridges is 472m AOD, approximately 0.3km east of the Site.
Geology (BGS map and WMS layers, and GeolIndex)	
The ground conditions have been derived from a combination of published information, BGS 1:50,000 scale mapping on GeolIndex, the Envirocheck report and BGS geological map extract 1:50,000 Solid Newport Sheet 249, together with previously produced information from the Site and the site walkover.	
Soils	The LandIS Soils map indicates that the soil type within the Proposed Development boundary predominantly comprises freely draining acid loamy soils over rock, with a loamy texture and medium carbon content, in the northeast of the Proposed Development Site there is an area shown as having very acid loamy upland soils with a wet peaty surface, a peaty texture and high carbon content.
Made ground	Made ground may be present associated with local disposal of spoil related to historical mining activities; if present, this is anticipated to be minor in occurrence, possibly associated with small scale 'trial' excavations on valley slopes and in the vicinity of any quarries.
Superficial Deposits	<p>A Phase 1 peat depth survey was undertaken by Wood in 2021 (Annex D). Based on the findings of the survey, which reported minor peat depths up to 0.1 m thick, it was concluded that true peat⁴ is not present across the Site.</p> <p>The BGS mapping shows no superficial deposits on the Site, which indicates potential for outcropping rock to be present and soils in the area being generally thin. Where the BGS online geology does show superficial deposits in the immediate surrounding area, these are consistent with the valley floors. The Afon Ebwy flows across alluvium (clay, silt, sand, and gravel) and occasional glaciofluvial deposits (sand and gravel). The lower reaches of Nant Gawny (tributary of Afon Ebwy) are underlain by head deposits (clay, silt, sand and gravel). The Trosnant Brook is underlain by head (clay, silt and gravel) and alluvium (clay, silt, sand, and gravel) superficial deposits, the latter of which is characteristic of the Afon Lwyd valley.</p>
Bedrock	<p>The Site is underlain by the Carboniferous Pennant Sandstone Formation (PES), which is described by the BGS as:</p> <p><i>'Green-grey and blue-grey, feldspathic, micaceous, lithic arenites (Pennant-type sandstones) of southerly provenance and minor conglomerates, with thin mudstone/siltstone and seatearth interbeds and mainly thin coals'.</i></p> <p>The PES is comprised of the Hughes Member (sandstones with small, localised areas of mudstone and siltstone) which underlies the Site, and the Rhondda Member (Pennant Sandstones with thin mudstone/siltstone and seat-earth interbeds and mainly thin coals) which underlies the Afon Ebwy and Nant Gwyddon valleys.</p> <p>The BGS GeolIndex online tool indicates a fault (Glyn Fault) cutting across the north land parcel orientated approximately northeast-southwest at Pen y Caeu Farm. The Nant Gawny River roughly follows the path of this fault. This fault</p>

⁴ Defined by the Welsh Government as peat defined as having a thickness of more than 40cm of organic material within the upper 80cm of a soil profile. Welsh Government, DataMapWales. Available at: https://datamap.gov.wales/layers/geonode:peatlands_of_wales_scg8. [online]. Accessed October 2023.

Item	Details
	is shown in the following extract from the BGS geological map extract 1:50,000 Solid Newport Sheet 249.

Figure 2.6 Extract from BGS geological map 1:50,000 Solid Newport Sheet 249 showing locations of faults

Key

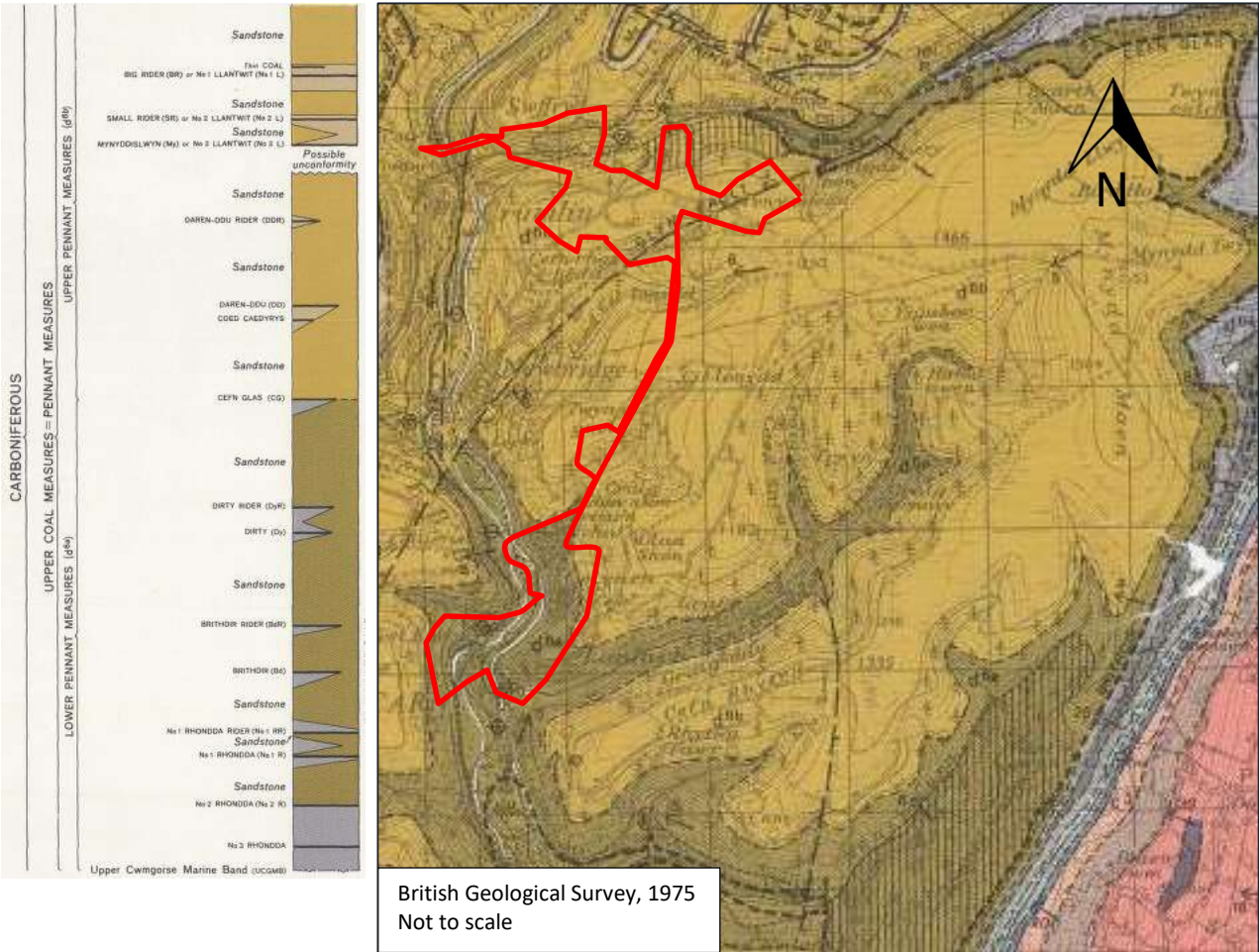
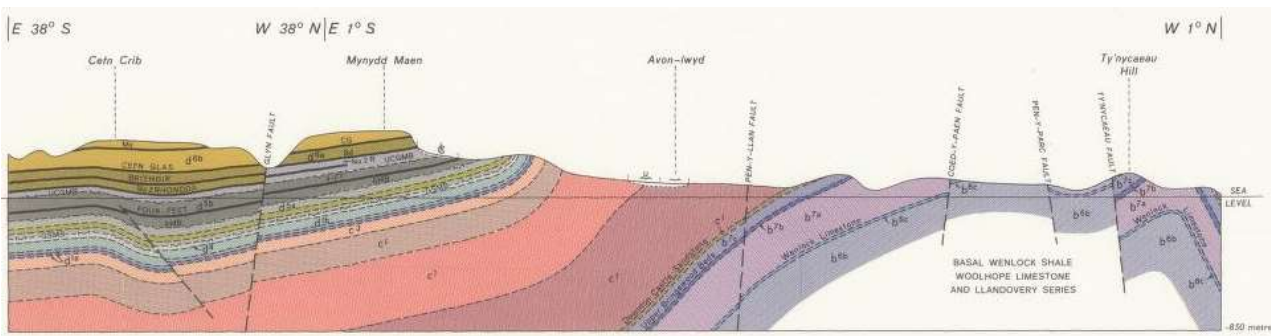


Figure 2.7 Extract from BGS geological map 1:50,000 Solid Newport Sheet 249 showing cross section inclusive of Mynydd Maen



Item	Details
Coal mining	The coal mining legacy for the Site is considered separately within the Coal Mining Risk Assessment (Annex A).
Historical borehole records (BGS)	<p>There are no BGS borehole records within the Proposed Development Site boundary however a small number of boreholes in the vicinity have been summarised:</p> <ul style="list-style-type: none"> • A BGS borehole (BGS ref: ST29NW26) recorded approximately 40m west of the north land parcel recorded coal from 8.5m below ground level to 8.7m below ground level (bgl) with no core taken in the top 8.5m. • A 1983 borehole (BGS ref: ST29NW201) ~45m southwest of the south land parcel at Hafod Fach quarry, Abercarn, records gritstone encountered at 2.6m bgl and extending to 12.9m bgl, the soil / rock encountered in the top 2.6m is not detailed. • Another borehole (BGS ref: ST29NW66) close to this, from 1982, records red-brown clay and grit to 4.5m bgl, becoming greyer from 3.0m bgl, underlain by gritstone with 3mm coal layers and coal fragments in rock from 5.25m bgl.
Other extractive industries	<p>A large sandstone quarry (Hafod Fach quarry) is immediately northwest of the south land parcel. Google maps identifies the Tarmac Haffod (aka Hafod) Asphalt Plant 275m northwest of the south land parcel at the quarry. The quarry partially overlaps an area identified by the Coal Authority as having outcropping coal (see Annex A).</p> <p>Current aerial photography and OS mapping shows farm buildings and infrastructure at Pen-y-Caeau farmstead in the north land parcel, a disused quarry, in the east of the north land parcel, and a sheepfold. In the south land parcel, a possible quarry has been identified on aerial photography east of Glan Shon Farm.</p>
Natural ground hazards	<p>The BGS GeoIndex online tool records sandstone landslide deposits approximately 100m to the northwest of the northern parcel.</p> <p>The Envirocheck Report notes the following ground related hazards:</p> <ul style="list-style-type: none"> • Collapsible ground – very low hazard. • Compressible ground – no hazard. • Ground dissolution – no hazard. • Landslide – very low. • Running sand – no hazard. • Shrinking/swelling clay – no hazard. <p>Radon is of lower probability (less than 1% of homes are estimated to be at or above the Action Level), which requires no radon protection measures.</p>
Hydrogeology	The Hughes Member bedrock on the Site and alluvium deposits in the valleys surrounding the Proposed Development are classified by NRW as Secondary A Aquifers which by definition are “permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers”. Groundwater vulnerability is classed as high due to the shallow bedrock, absence (<3m thickness) of low permeability deposits above it, and potential for a productive aquifer in well-connected fractures.

Item	Details
	<p>The South Wales Upper Coal Measures underlying the Site and surrounding area within 500m is a designated Water Framework Directive (WFD)⁵ groundwater body (SE Valleys Carboniferous Coal Measures GB40902G201900) and achieved 'Good' quantitative status and 'Poor' chemical status in the 2016 WFD classification (Cycle 2).</p> <p>Groundwater level details are not included on local BGS logs in the vicinity of the Site. If shallow groundwater is encountered, it is likely to be in small quantities. This is due to the Site being at a topographic high and the underlying geology comprising bands of both higher and lower permeability bedrock layers. There is potential for flow in rock fractures.</p> <p>There are no licensed groundwater abstractions on the Site. The closest groundwater abstraction is recorded 13m northeast, operator unknown, listed as for agricultural use. A further six groundwater abstractions are recorded (all within 250m) associated with dust suppression at Hafod Fach Quarry and potentially downgradient of the Site. One other groundwater abstraction is recorded within 1km of Site, 575m northwest) at The Old Rectory, Crumlin operated by Mr L Harriott for water bottling this also has the potential to be downgradient of the Site.</p> <p>Two wells are identified on OS mapping, one ~75m southwest of the north land parcel (potentially downstream of the Site) at Blaengwrney Farm (aka Blaengawney Farm) / Hallets Cider, and one at Cwm Gwyddon ~550m the east of Parcel Two, indicating the possibility that groundwater is abstracted for drinking water supply or other uses within 1km. The BGS GeoIndex identifies five in the vicinity of Hafod Fach quarry. The wells were advanced in 1983 and between 35m and 170m deep. They are screened in the Pennant Sandstone Formation.</p> <p>The Site and the surrounding area within 500m are not within a groundwater Source Protection Zone (SPZ).</p>
Groundwater sensitivity	<p>Groundwater beneath the Site is considered to be of moderate sensitivity. It is likely to have been impacted by former coal mining activities, however there are groundwater abstractions in the surrounding area. There are no SPZs defined within 500m of the Site.</p>
Hydrology and drainage	<p>The Afon Ebwy river flows from north to south through the Ebwy valley, approximately 750m to the west of the Proposed Development at its closest point. Tributaries of the Afon Ebwy are present within the Proposed Development Site boundary, including the Nant Gawni (within the Northern Parcel), Nant Hafod-fach and Nant Gwyddon, which generally flow to the west. There is one pond within the Site boundary (in the south land parcel, E: 323147, N:196401). A spring was noted during the walkover at the boundary of the field and copse within the north land parcel in the southeast of this land parcel (E:323586, N: 197877).</p> <p>One surface water abstraction is recorded within 1km of the Site (796m west of the south and central land parcels), operated by the Environment Agency for non-remedial river/wetland support: fish pass/canoe pass.</p>

⁵ European Parliament. (2000). Directive 2000/60/EC of the European Parliament and of the Council establishing a framework for Community action in the field of water policy. (Online) Available from: https://eur-lex.europa.eu/resource.html?uri=cellar:5c835afb-2ec6-4577-bdf8-756d3d694eeb.0004.02/DOC_1&format=PDF (Accessed October 2023).

Item	Details
Flood risk	<p><u>Historical flooding</u> NRW's Flood Map for Planning includes extents of historical flood events. The mapping shows there are no recorded historical flood events within or in proximity to the Site. The only event recorded within the surrounding area, occurred in Trecelyn in December 1979. This event occurred over 1.5km to the west of the Site and at significantly lower elevations (110mAOD) than the Proposed Development (290 to 345mAOD).</p> <p><u>Fluvial and Tidal Flood Risk</u> The Development Advice Map (DAM)⁶ shows that the Proposed Development area is located entirely within Flood Zone A (very low risk of fluvial flooding). NRW's Flood Map for Planning for Rivers shows that the Site is located entirely within Flood Zone 1; and is therefore at low probability of flooding from these sources (<0.1% AEP including the effects of climate change). The closest areas of higher flood risk (Flood Zones 2 / 3 or B / C) within the surrounding area are associated with the Afon Ebwy to the west, the Nant Gwyddon to the south and the Trosnant Brook to the north.</p> <p>It is noted that fluvial flood mapping only maps the flood risk associated with the larger watercourses, the small watercourses at the Site do not have mapped fluvial Flood Zones. For these watercourses, the Surface Water Flood Risk map provides an indication of the extent of flood risk.</p> <p>The risk of flooding from the sea is minimal on account of the elevation of the Site, which ranges between 290mAOD and 410mAOD.</p> <p>On the basis of the Flood Zone classification and elevation of the Proposed Development, the assessed risk of fluvial flooding is considered to be low. Similarly, the locality is not determined to be at risk of tidal flooding, due to the elevation above sea level.</p> <p><u>Surface Water Flood Risk</u> For context, surface water flooding occurs when the intensity of rainfall is greater than the local drainage and infiltration capacity, causing water to flow overland. Where low-points or barriers to flow are present, particularly deep areas of flooding may occur. These areas are not limited to river corridors or floodplains.</p> <p>NRW's Flood Map for Planning for Surface Water and Small Watercourses indicates that the majority of the Site (and surrounding area) is at very low risk of flooding (Flood Zone 1, <0.1% AEP) from surface water. Small areas of low to high flood risk (Flood Zones 2 and 3, 0.1% to >3.3% AEP) are shown on localised lower-lying areas which include small watercourses (Nant Gwyddon, Nant Hafod-fach and Nant Gawni) and ponds/lakes. A summary of the baseline surface water flood risk across the Site is provided below.</p>

⁶ Welsh Government. 2018. Technical Advice Note 15: Development and Flood Risk. (Online) Available at: <https://gov.wales/sites/default/files/publications/2018-09/tan15-development-flood-risk.pdf>

Item	Details
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Table 2.3 Summary of the baseline surface water flood risk for the Proposed Development

Proposed Development land parcel	Surface water flood risk summary
North	Entirely within an area of very low risk of flooding from surface water (Flood Zone 1, <0.1% AEP) except for minor flow path of low to high flood risk (Flood Zones 2 and 3, 0.1% to >3.3% AEP) originating on the southern edge of the land parcel (unnamed tributary of the Nant Gawni).
Centre	Entirely within area of very low risk of flooding from surface water (Flood Zone 1, <0.1% AEP).
South	Entirely within area of very low risk of flooding from surface water (Flood Zone 1, <0.1% AEP) except for three localised areas of low to high risk surface water flooding (Flood Zones 2 and 3, 0.1 to >3.3% AEP): which are associated with a pond (Pwllgwinau), hardstanding present at Glan- Shon Farm and minor flow path originating on the western edge of the land parcel (unnamed tributary of the Nant Hafod-fach).

Groundwater Flood Risk

Groundwater flooding arises from water issuing to the surface from the underlying aquifer; tending to take place over long periods of sustained heavy rainfall resulting in elevated groundwater levels. Areas most at risk tend to be situated over permeable geology and are located in low-lying areas where the local water table is close to or at the ground surface. Caerphilly County Borough Council Local Flood Risk Management Strategy (2013) states that groundwater flooding is not a major issue within the borough area.

If shallow groundwater is encountered, it is likely to be in small quantities. This is due to the Proposed Development area being at a topographic high and the underlying geology comprising bands of both higher and lower permeability bedrock layers.

Overall, this suggests that there is a low likelihood of encountering groundwater during excavation activities associated with the Proposed Development's construction; and where groundwater is encountered it will likely be in small quantities and is not considered to be a significant source of potential flood risk.

Hydrological sensitivity	The Site's hydrological setting is considered to be of moderate sensitivity given the presence of multiple surface water features on the Site. No surface water abstractions are recorded on Site.
Ecology	There are no areas with statutory ecological conservation designations within the Site. No ecological features with international, European or national statutory designation have been identified within 500m that could potentially be affected by land contamination on the Proposed Development Site.

Item	Details
	<p>Ty'r Hen Forwyn Site of Special Scientific Interest (SSSI) located approximately 1.2km north of the north land parcel, which comprises freely draining fields supporting species rich neutral grassland and therefore the conditions of the SSSI are not water dependent. The SSSI is also located within the Afon Lwyd waterbody catchment, to the north of the Trosnant Brook. Given the nature of the Proposed Development and the distance from Ty'r Hen Foryn, the development is unlikely to have any significant contaminative impact on the SSSI.</p> <p>The Envirocheck report notes Ancient Woodland present adjacent to north of the north land parcel and west of the south land parcel, however these features are not named.</p> <p>A number of local Sites of Importance for Nature Conservation (SINC) are noted within the Site vicinity. Pwllgwinau (in the north of the southern parcel) east of Newbridge comprises a pond surrounded by semi-improved pasture notable for great crested newt, palmate newt, smooth newt and common frog. Coed Cil-Lonydd immediately adjacent to the west of northern parcel (east of Newbridge) follows the course of two branches of the wooded Nant Gawni stream including two adjoining woodland blocks of former ancient woodland on the steep valley sides. Gwyndon Valley Woodlands at Abercarn adjacent to the central and southern parcels comprises a large area of forestry plantation on the Site of former ancient woodland. Cwm Hafod-Fach Woodlands north of Abercarn and immediately adjacent to the southern parcel is an area of mixed woodland on sloping valley-sides surrounding a working quarry.</p>
Ecological sensitivity	<p>The Site is considered to be of low to moderate sensitivity as no statutory designations are present on the Site or in its immediate surroundings, however the Pwllgwinau pond (SINC) is present on the Site and environmentally sensitive areas are located in the surrounding area including ancient woodlands and SINC sites of Coed Cil-Lonydd immediately adjacent to the west of northern parcel, Gwyndon Valley Woodlands at Abercarn immediately adjacent to the central and southern parcels and Cwm Hafod-Fach Woodlands north of Abercarn and immediately adjacent to the south land parcel.</p>

2.3 Regulatory database information

Only regulatory data within 250m of the Site has been detailed below which would therefore have the potential to have a significant impact on the Proposed Development Site. Comment is provided in the table below on the potential for identified offsite potentially contaminative land uses or activities to impact on the Site's soil or groundwater quality, or surface water quality, on, or in proximity to the Site.

Table 2.4 Regulatory database information

Activity	On-Site	0-250m from Site	Details
Waste management/ transfer/ treatment facilities/ disposal	-	-	N/A

Activity	On-Site	0-250m from Site	Details
Landfill	- NRW record no historical landfills within the Site however small-scale disposal of wastes in voids from historical quarrying is possible.	-	N/A
Pollution incidents affecting land	-	-	N/A
Discharge consents	-	-	The closest reported discharge consent is recorded 294m west of the southern and central parcels operated by Tarmac Trading Limited at Hafod Fach quarry with final treated effluent discharge to land.
Sites handling hazardous explosive substances (inc. COMAH or NIHHS) planning hazardous consents	-	-	N/A
Mineral extraction or coal mining activities	-	4	BGS Recorded Mineral Sites: <ul style="list-style-type: none"> • 6m north (north parcel)– Pen-Y-Caeau opencast sandstone quarry at Crumlin, ceased status • 7m northwest (south/central parcels) – Coed Sara, opencast sandstone extraction at Newbridge, ceased status • 159m northwest (south/central parcels) – Hafod Fach quarry, opencast sandstone extraction at Abercam Newport, dormant status • 222m northeast (north parcel) – Coedcae-Hen Drift underground deep coal extraction at Hafodyrynys, ceased status
Unexploded ordnance risk	Low risk	Low risk	Based on Zetica online bomb risk map

2.4 Site history

A summary of the historical development of the Site is presented below. This is based on historical Ordnance Survey (OS) mapping (see historical maps in **Annex B**), supplemented by publicly available aerial imagery on Google Earth. Where relevant, interpretation of the maps is supported

by information obtained from discussions with the client and other stakeholders. . Key features from historical mapping have been included in the Ground Conditions Features Plan, **Figure 2.5**.

Table 2.5 Site history

North land parcel and surrounding area
<p>1880/1886</p> <p>Onsite: The northern parcel was predominantly undeveloped pasture with a road intersecting the centre from northeast to southeast. The north side of this road was lined by woodland in the central portion of the parcel. A stream passed through the east of the parcel from north to south. Another stream was recorded in the central south of the land parcel. A pond was recorded close to the north of the central portion of the parcel. An old quarry was visible on the northern edge of the woodland at the northern boundary. A dwelling named “Pen-y-Caeau” was located at the western limit of this woodland, a stream passed from this dwelling through the parcel, exiting to the southwest</p> <p>Offsite: Blaengawny farm was located south to the southwest of the parcel, a well was recorded at this dwelling. The northern boundary was lined by dense woodland/forestry and a railway line cut through the woodland roughly east to the west, further north. The railway passed through a tunnel to the northwest of the parcel adjacent to Tunnelbank Cottages. The surrounding land was dominated by agricultural land and forestry. A spring was recorded some 400m southeast with a number of old quarries recorded further southeast.</p>
<p>1901-1902</p> <p>Onsite: The parcel remained largely unchanged. A well was recorded at Pen-y-Caeau on the northern boundary.</p> <p>Offsite: An air shaft was marked adjacent to the railway line to the northeast of the parcel. Additional dwellings had been established in the vicinity of the railway tunnel to the northwest.</p>
<p>1920/1922</p> <p>Onsite: A spring or ‘rose’ was recorded on the parcel towards the centre of its southern boundary.</p> <p>Offsite: Hafodyrynys Colliery had been established adjacent to the railway line in the north with ‘Old Coal Levels’, shafts and tanks recorded. A number of ‘rises’ or springs are recorded in the vicinity to the south of the parcel. A glacial valley or “Cwm” was recorded on the southern edge of the railway to the north of the eastern portion of the parcel.</p>
<p>1938-1953/1938-1953</p> <p>Onsite: No significant changes onsite or in the vicinity except for additional forestry southeast of the parcel, as of 1953 mapping, and the addition of an electricity transmission line (overhead lines) which passed south of the railway and across the parcel from northeast to southwest.</p> <p>Offsite: No significant changes except for the overhead lines passing across the site and beyond to the southwest.</p>
<p>1962/1965</p> <p>Onsite: A sheepfold and sheep wash were recorded in the central east of the parcel. A pond was recorded north of the sheepfold onsite. A small depression was recorded in the east of the parcel. The power line to the northeast was no longer recorded replaced by lines entering the parcel from the southeast and passed across it to the northwest.</p> <p>Offsite: Additional buildings associated with the mine have been established either side of the railway with additional ‘mines’ recorded further to the east (north of the railway) and west (south of the railway – Glyntillery Colliery). The mine to the northeast (north of the railway recorded a circular feature [potentially a tank]).</p>

1983

Onsite: No significant changes within the land parcel.

Offsite: The railway to the north was dismantled and lined by a footpath. The mines previously recorded along the railway by this time were marked as disused collieries and the location of the 'Cwm' recorded as a disused tip. A depot was established adjacent to the railway tunnel to the northwest.

1990/1993

Onsite: No significant changes within the land parcel.

Offsite: By this time the disused tip on the southern edge of the former railway was recorded as disused workings assumed to be associated with the mining in the vicinity. The majority of buildings associated with the Glyntillery colliery directly north of the parcel were no longer recorded with steep banks recorded sloping down to the south. The colliery to the northeast only had limited buildings remaining as well as the possible tank structure.

1999

Onsite: No significant changes within the parcel.

Offsite: The footpath along the former railway became Crumlin Road to the northeast.

2023

Onsite: Two buildings were recorded in the central east area of the parcel.

Offsite: All buildings associated with the collieries to the north and northeast no longer recorded with the exception of the possible tank feature to the northeast.

Central and Southern Parcels and Immediate Vicinity

1886

Onsite: Both the central and south land parcels were largely undeveloped comprising predominantly agricultural fields and scrubland/heath. The dwelling of Glan-Shôn was recorded in the southwest of the south parcel. A road/track intersected the south parcel from north to southwest. The same track bordered the eastern boundary of the central parcel. A pond was recorded in the northeast of the south parcel.

Offsite: The central parcel was bordered by woodland/forestry to the east, agricultural land to the west, the south parcel was bordered by forestry to the west and heathland to the east, agricultural fields to the north. Celyn Colliery was recorded encompassed by woodland 400m west of the southern tip of the southern parcel. A railway line was recorded west of the colliery. A small quarry was recorded at the boundary of the southern parcel in the northwest. The Site of Cae Eglwys (historical Site) was recorded to the northwest of the central parcel. A river cut through the forest to the west of the parcels from north to southwest (Nant Hafod-fach). Another river was recorded within the forestry to the east of the parcel orientated north to south (Nant Gwyddon-fach).

1901-1902

Onsite: No significant changes within the central or south parcels.

Offsite: Old quarries were recorded at Celyn to the southwest and within forestry to the west of the southern parcel.

1922

Onsite: No significant changes within the central or south land parcels.

Offsite: A cemetery was established east of Celyn, southwest of the south parcel.

1938-1953

Onsite: No significant changes within the central or south land parcels.

Offsite: The area south of the cemetery was developed with residential dwellings with the area recorded as Lanfach. Woodland to the east is recorded bordering both parcels.

1962/1965

Onsite: Mapping from 1962 recorded a series of small excavations adjacent to the track a Glan Shon Farm in south of the southern parcel.

Offsite: The site of the Celynen Colliery was recorded as occupied by residential dwellings. Further dwellings were developed south of the cemetery.

1983

Onsite: No significant changes within the central or south land parcels.

Offsite: The railway to the southwest of the southern parcel recorded as dismantled. A school and playing fields were recorded adjacent to the west of the dismantled railway.

1990: No significant changes within the parcel or in the vicinity.

1993: No significant changes within the parcel or in the vicinity.

1999: No significant changes within the parcel or in the vicinity.

2023

Onsite: The small excavations adjacent to the track at Glan Shon Farm, from Google Earth 2023 aerial imagery appear to have been infilled.

Offsite: No significant changes offsite.

2.5 Previous work at the Site

Table 2.6 Previous work at the Site

Report reference	Summary of relevant information
Wood (2021) Technical Note: Trecelyn Wind Farm – Peat Depth Survey Report	<p>Wood Group UK Limited (Wood) was commissioned by Pennant Walters Limited to complete peat depth probing on land being considered for the proposed Trecelyn Wind Farm, comprising of four separate areas approximately 1.5 to 3.0km to the east of Newbridge in Caerphilly. The areas described in the Wood report correspond as follows to the current Proposed Development boundary and the Site which is the subject of this report:</p> <ul style="list-style-type: none">• ‘Northern plot’ = the north land parcel.• ‘Central plot – north’ = the central land parcel.• ‘Central plot – south’ = the south land parcel.• ‘Southern plot’ = an area of land which is offsite for the purposes of this report and is no longer part of the Proposed Development. <p>The Phase 1 peat depth survey was undertaken by Wood on 16 September 2021 during a period of relatively dry weather. The survey comprised a total of 143 probes taken across the four areas, revealing potential peat depths in the range of between 0.00m and 0.10m. The Welsh Government define true peat as being $\geq 0.4\text{m}$ in depth. Therefore, the surveyed land can generally be considered as not being underlain by peat.</p>

Report reference	Summary of relevant information
	A copy of the report, including figures showing the surveyed areas, is included in Annex D .

3. Preliminary risk assessment

3.1 Conceptual model

The Site has a relatively simple ground model comprising shallow soil onsite, and in the surrounding area superficial deposits comprising alluvium and occasional glaciofluvial deposits, overlying bedrock (Hughes Members) at shallow depth, which is classed as a Secondary A aquifer.

A Coal Authority Consultants Coal Mining Report (CCMR) (**Annex A**) was obtained for the Site (this includes the Site and an additional area of land to the south which was previously being considered for development but is no longer within the Proposed Development). This identifies eight coal seams worked beneath the Site at depths of between 179m and 516m below ground level. No investigative or remedial activity is recorded within the Site or within 50m of the boundary.

Mining has taken place beneath the Site and in the wider area at depth. The mining is documented beneath the Site, with eight coal seams recorded to have been worked beneath the Site at depths of between 179m and 516m. Sandstone quarrying is still active adjacent to the west of the south land parcel at Hafod Fach quarry, which is at a lower elevation than the Site. Additional excavations at the Site are suspected to have taken place based on visual evidence from historical mapping and aerial imagery. Groundwater quality on the Site and in the surrounding area is likely to be impacted by the historical extraction activities.

A number of watercourses flow across the Site and in close proximity to the Site including Nant Gawni (within the north land parcel), Nant Hafod-fach and Nant Gwyddon, which generally flow to the west. There is also a pond within the south land parcel.

No significant potential sources of contamination have been identified on the Site. Limited potential sources include residual waste associated with former mining activity, former and current farm operations, mine gas, above ground fuel (diesel) tanks within farm properties, waste stockpiles (including localised spoil associated with extraction and other waste materials, potentially with some asbestos content, made ground (south land parcel), a burning ground (south land parcel) and a septic tank. These are all likely to be either small-scale localised sources or diffuse in nature.

No offsite sources of potential contamination with potential to significantly affect the land quality on the Site have been identified. This is based on the Site being at a higher elevation than the identified sources (including offsite farm buildings) which reduces the likelihood of onsite migration. Offsite sources are therefore not considered further in the risk assessment.

3.2 Potential contamination sources

A review of the Site's historical development and environmental setting has identified a limited number of potential contaminant sources on the Site, as summarised below in **Table 3.1**. The list of contaminants has been established through a review of Annexe 3 in the Guidance for the Safe Development of Housing on Land Affected by Contamination R&D66: 2008 Volume 2.

The main potential source is diffuse impact associated with agricultural land use. Farm operations are a potential source of ground and groundwater contamination arising from the use of pesticides, sheep dip, agricultural chemicals, and fuels.

Former mine workings are a potential source of toxic and explosive gas. The Coal Authority Report notes no recorded mine gas or mine entries at or within the vicinity of the Site. Whilst the turbines are not associated with significant enclosed spaces, it has been considered for the proposed built environment, particularly the substation building and for construction working in excavations. Proximity to mine entries would increase this potential risk.

Table 3.1 Current and historical contaminant sources

No.	Source	Likely contaminants	Location	Source to be considered further?
1	Residual unrecorded extraction (mine) waste (localised)	Heavy metals, sulphates, cyanides, polycyclic aromatic hydrocarbons (PAHs)	Localised across the Site	Yes
2	Current and historical farm operations, predominantly around buildings	Hydrocarbons (fuels and oils), pesticides, agricultural chemicals, sheep dip	Localised to current and former farm buildings	Yes
3	Mine Gas	Carbon dioxide, methane	Coal seams and potentially unrecorded mine entries across the Site	Yes
4a	Active above ground diesel tanks (Ty Oakley Farm)	Hydrocarbons (diesel), PAHs, volatile organic compounds (VOCs)	North land parcel (5000L tank at Ty Oakley Farm)	Yes
4b	Active above ground diesel tanks (Glan Shon Farm)	Hydrocarbons (diesel), PAHs, volatile organic compounds (VOCs)	South land parcel (2500L tank at Glan Shon Farm)	Yes
5a	Waste stockpiles (potential asbestos containing material) (Ty Oakley Farm)	Asbestos, heavy metals	North land parcel (Ty Oakley Farm)	Yes
5b	Waste stockpiles (potential asbestos containing material) (Glan Shon Farm)	Asbestos, heavy metals	South land parcel (two stockpiles at Glan Shon Farm)	Yes
6	Made ground (infilled land in south land parcel)	Asbestos, heavy metals, hydrocarbons, ground gases (carbon dioxide, methane)	South land parcel	Yes
7	Burning ground – southern parcel (Glan Shon Farm)	Hydrocarbons, PAHs, VOCs, heavy metals	South land parcel (Glan Shon Farm)	Yes
8	Active Hafod Fach sandstone quarry	Hydrocarbons, PAHs, VOCs, heavy	Off site adjacent to west of south land parcel	Yes

No.	Source	Likely contaminants	Location	Source to be considered further?
		metals, pH, inorganics		
9	Septic tank	Biological contaminants	North land parcel (Ty Oakley Farm)	No – although the condition of the tank is unknown, limited associated risk, any contamination if present is likely to be localised and not in the vicinity of proposed development structures/infrastructure

3.3 Potential receptors and exposure pathways

The potential receptors and associated pathways that have been identified are shown in Table 3.2.

Table 3.2 Receptors and pathways

Receptor	Potential Pathways
Current Site users – Site workers (agricultural workers, operatives/maintenance workers), public open space users	Dermal contact, ingestion (including of contaminated potable water), inhalation of dusts, vapours, fibres and accumulated gases
Future Site users – Site workers (agricultural workers, operatives/maintenance workers), public open space users	Dermal contact, ingestion (including of contaminated potable water), inhalation of dusts, vapours, fibres and accumulated gases
Current buildings and services	Direct contact, ingress, and accumulation of gases
Future buildings and services*	Direct contact, ingress and accumulation of gases
Controlled waters; Surface water – Nant Gwyddon, Nant Hafod-fach and Nant Gawni	Surface water runoff, baseflow migration
Controlled waters: Groundwater – Secondary A aquifer (Hughes Member), Secondary A aquifer (Alluvium)**	Leaching, groundwater migration
Current property – grazing animals (sheep, cattle, poultry), possible crops***	Direct contact, uptake, ingestion
Future property – grazing animals (sheep, cattle, poultry), possible crops***	Direct contact, uptake, ingestion

*The risk assessment assumes that there will be no mains water supply to the Proposed Development and that if temporary water supply is provided to cabins during construction that this will not be via underground pipes.

**The risks to current and future controlled waters are not likely to change due to the Proposed Development and the risk assessment for these receptors therefore reflects the current and future scenario post development.

***Orchards noted to be present on adjacent land to the south of the north parcel.

3.4 Exclusions from the risk assessment

This section details exclusions from the environmental risk assessment.

Residential Site users

Residential users of the Site in its current configuration are not considered as part of this assessment as no changes to residential properties are proposed.

Redevelopment/construction workers

The conceptual model does not consider risks to construction/ Site maintenance workers on the basis that risks to workers will be dealt with under the Health and Safety at Work Act (1974) and regulations made under the Act. Site-specific contamination data obtained from all Site investigations should be included in the pre-construction information (requirement of Construction Design and management Regulations 2015) for the proposed works, to enable any contractors to address potential risk from contamination as necessary in their risk assessments and method statements. Moreover, as the exact details of the method adopted are not currently known, it is not considered appropriate to provide a wide ranging and speculative risk assessment for redevelopment workers.

Invasive species

Invasive species (including but not limited to Japanese knotweed and giant hogweed) are not considered within the risk assessment for contamination.

Unexploded ordnance (UXO)

A UXO assessment has not been carried out as part of this study.

Aggressive ground conditions

Constraints including sulphate and ammonia attack of concrete are considered in the geohazards section.

3.5 Preliminary environmental risk assessment

For land contamination risk to be realised, a 'contaminant linkage' must exist. A contaminant linkage requires the presence of a:

- source of contamination.
- receptor capable of being harmed; and
- pathway capable of exposing a receptor to the contaminant.

A preliminary risk assessment has been undertaken for these potential contaminant linkages to identify potentially unacceptable risks on a qualitative basis. Risk is therefore based on a consideration of both:

- The likelihood of an event (probability – considers both the presence of the hazard and receptor and the integrity of the pathway); and
- The severity of the potential consequence (considers both the potential severity of the hazard and the sensitivity of the receptor).

Further information on the risk assessment methodology used is given in **Annex F**. The method of dealing with identified risks and the level of significance of those risks will be a function of Site use. The risk assessment is based on the future proposed land use and assumes no control measures to manage the risk (e.g., source removal or capping) have been incorporated in the development.

Table 3.3 Preliminary risk assessment

Potential source	Potential pollutant	Potential receptors	Potential pathways to receptors	Associated hazard [severity]	Likelihood of occurrence	Risk/ significance
1 Residual unrecorded extraction (mine) waste (localised)	Heavy metals, sulphates, cyanide, PAHs	Current Site users – Site workers, public open space users	Direct contact, inhalation, ingestion	Health Hazard [Mild]	Unlikely No mine waste observed during the walkover. If present, its extent will be localised with little likelihood of disturbance by visiting public.	Very Low
	Heavy metals, sulphates, cyanide, PAHs	Future Site users – Site workers, public open space users	Direct contact, inhalation, ingestion	Health Hazard [Mild]	Unlikely No mine waste observed during the walkover. If present, its extent will be localised with little likelihood of disturbance by visiting public. Restored / reused soils during the construction phase of the Proposed Development will be confirmed to be suitable for use in accordance with a Materials Management Plan (MMP ⁷). Wind farm workers will wear PPE and will not disturb soils during normal activities.	Very Low
	Heavy metals, sulphates, cyanide, PAHs	Future buildings and services	Direct contact	Degradation of concrete, impact on in ground services [Mild]	Unlikely Elevated sulphate may be present in mine spoil if present. Concrete will be specified according to ground conditions as described in relevant guidance.	Very low
	Heavy metals, sulphates, cyanide, PAHs	Controlled water – surface water	Run off, base flow	Water quality impact [Mild]	Unlikely Potential for runoff and groundwater baseflow to affect watercourses. Coal	Very Low

⁷ In accordance with the Definition of Waste: Code of Practice. Available at: <https://www.claire.co.uk/projects-and-initiatives/dow-cop/28-framework-and-guidance/111-dow-cop-main-document>. Accessed October 2023.

Potential source	Potential pollutant	Potential receptors	Potential pathways to receptors	Associated hazard [severity]	Likelihood of occurrence	Risk/ significance
					mine spoil typically exhibits low leachability. Attenuation and dilution likely.	
	Heavy metals, sulphates, cyanide, PAHs	Controlled water – groundwater	Leaching, migration	Water quality impact [Mild]	Unlikely Groundwater likely to be deep beneath the Site and may be impacted by mining activities.	Very low
	Heavy metals, sulphates, cyanide, PAHs	Current property – cattle, sheep, poultry	Direct contact, uptake	Damage to livestock or crops [Mild]	Unlikely No areas of land identified as damaged or unusable for farming, no known issues with crop or livestock health.	Very low
	Heavy metals, sulphates, cyanide, PAHs	Future property –cattle, sheep, poultry	Direct contact, uptake	Damage to livestock or crops [Mild]	Unlikely Restored / reused soils during the construction phase of the Proposed Development will be confirmed to be suitable for use in accordance with a Materials Management Plan (MMP).	Very low
2 Current and historical farm operations, predominantly around buildings	Hydrocarbons, pesticides, sheep dip, agricultural chemicals	Current Site users – Site workers, public open space users	Direct contact, inhalation, ingestion, vapour inhalation	Health Hazard [Mild]	Unlikely Any impact is likely to be highly localised/diffuse and is unlikely to be disturbed during routine Site activities. No evidence of sheep dipping activities identified during the walkover, although a sheepfold is present. A sheep wash was recorded in historical mapping within the north parcel. Limited exposure potential for visitors to Site. Site workers to use appropriate PPE for ground conditions encountered	Very low

Potential source	Potential pollutant	Potential receptors	Potential pathways to receptors	Associated hazard [severity]	Likelihood of occurrence	Risk/ significance
	Hydrocarbons, pesticides, sheep dip, agricultural chemicals	Future Site users – Site workers, public open space users	Direct contact, inhalation, ingestion, vapour inhalation	Health Hazard [Mild]	Unlikely Any impact is likely to be highly localised/diffuse and is unlikely to be disturbed during routine Site activities. No evidence of sheep dipping activities identified during the Site walkover, although a sheepfold present. A sheep wash was recorded in historical mapping within the northern parcel. . Restored / reused soils during the construction phase of the Proposed Development will be confirmed to be suitable for use in accordance with a Materials Management Plan (MMP). Limited exposure potential for visitors to Site. Wind farm workers will wear PPE and will not disturb soils during normal activities.	Very low
	Hydrocarbons, agricultural chemicals	Future buildings and services	Direct contact	Degradation of concrete, impact on in ground services [Medium]	Unlikely Agricultural chemicals do not normally adversely affect building structures.	Low
	Hydrocarbons, pesticides, sheep dip, agricultural chemicals	Controlled water – surface water	Run off, base flow	Water quality impact [Mild]	Unlikely Potential for runoff and groundwater baseflow to affect watercourses. Attenuation likely.	Very low
	Hydrocarbons, pesticides, sheep dip, agricultural chemicals	Controlled water – groundwater	Leaching, migration	Water quality impact [Mild]	Unlikely Groundwater likely to be deep beneath the Site and may be impacted by mining activities.	Very low

Potential source	Potential pollutant	Potential receptors	Potential pathways to receptors	Associated hazard [severity]	Likelihood of occurrence	Risk/ significance
3 Mine gas	Carbon dioxide, methane	Current Site users – Site workers, public open space users	Inhalation	Health Hazard – toxic [Medium]	Unlikely No enclosed spaces present. No preferential pathways identified in areas of proposed infrastructure.	Low
	Carbon dioxide, methane	Future Site users – Site workers, public open space users	Inhalation	Health Hazard – toxic/asphyxiation. Explosion/fire risk [Severe]	Unlikely Limited confined space in Proposed Development and not routinely occupied. Not located close to identified mine entries (none recorded on site).	Moderate/low
	Methane	Future buildings and services	Migration, accumulation	Explosion, fire [Severe]	Unlikely Limited confined space in Proposed Development. Not located close to identified mine entries (none recorded on site).	Moderate/low
4a Active diesel tank – northern parcel (Ty Oakley Farm)	Hydrocarbons (diesel), PAHs	Current Site users – Site workers, public open space users	Direct contact, inhalation, ingestion, vapour inhalation	Health Hazard [Medium]	Unlikely Tank self-bunded, no signs of spills or leaks noted. Any impact is likely to be localised near tank or diffuse (minor leakages) and is unlikely to be disturbed during routine Site activities. Limited exposure potential for visitors to Site.	Low
	Hydrocarbons (diesel), PAHs	Future Site users – Site workers, public open space users	Direct contact, inhalation, ingestion, vapour inhalation	Health Hazard [Medium]	Unlikely Tank self-bunded, no signs of spills or leaks noted. Any impact is likely to be localised near tank or diffuse (minor leakages) and is unlikely to be disturbed during routine Site activities. Limited exposure potential for visitors to Site. Wind farm workers will wear PPE and	Low

Potential source	Potential pollutant	Potential receptors	Potential pathways to receptors	Associated hazard [severity]	Likelihood of occurrence	Risk/ significance
					will not disturb soils during normal activities.	
	Hydrocarbons (diesel), PAHs, volatile organic compounds (VOCs)	Future buildings and services	Direct contact	Degradation of concrete, impact on in ground services [Medium]	Unlikely Tanks not located in vicinity of Proposed structures/services.	Low
	Hydrocarbons (diesel), PAHs, volatile organic compounds (VOCs)	Controlled water – surface water	Run off, base flow	Water quality impact [Mild]	Unlikely Tank bunded, no signs of spills or leaks noted. Tank located approximately 250m from the nearest watercourse.	Very low
	Hydrocarbons (diesel), PAHs, volatile organic compounds (VOCs)	Controlled water – groundwater	Leaching, migration	Water quality impact [Mild]	Unlikely Tank bunded, no signs of spills or leaks noted. Groundwater likely to be deep beneath the Site and may be impacted by mining activities.	Very low
4b Active diesel tank – southern parcel (Glan Shon Farm)	Hydrocarbons (diesel), PAHs, volatile organic compounds (VOCs)	Current Site users – Site workers, public open space users	Direct contact, inhalation, ingestion, vapour inhalation	Health Hazard [Medium]	Unlikely Tank self-bunded, no signs of spills or leaks noted. Any impact is likely to be highly localised/diffuse and is unlikely to be disturbed during routine Site activities. Limited exposure potential for visitors to Site. Site workers to use appropriate PPE for ground conditions encountered.	Low
	Hydrocarbons (diesel), PAHs, volatile organic	Future Site users – Site workers, public	Direct contact, inhalation, ingestion,	Health Hazard [Medium]	Unlikely Tank self-bunded, no signs of spills or leaks noted. Any impact is likely to be	Low

Potential source	Potential pollutant	Potential receptors	Potential pathways to receptors	Associated hazard [severity]	Likelihood of occurrence	Risk/ significance
	compounds (VOCs)	open space users	vapour inhalation		localised near tank or diffuse (minor leakages) and is unlikely to be disturbed during routine Site activities. Limited exposure potential for visitors to Site. Wind farm workers will wear PPE and will not disturb soils during normal activities.	
	Hydrocarbons (diesel), PAHs, volatile organic compounds (VOCs)	Future buildings and services	Direct contact	Degradation of concrete, impact on in ground services [Medium]	Unlikely Tanks not located in vicinity of Proposed structures/services.	Low
	Hydrocarbons (diesel), PAHs, volatile organic compounds (VOCs)	Controlled water – surface water	Run off, base flow	Water quality impact [Mild]	Unlikely Tank bunded, no signs of spills or leaks noted. Tank located approximately 500m from the nearest watercourse.	Very low
	Hydrocarbons (diesel), PAHs, volatile organic compounds (VOCs)	Controlled water – groundwater	Leaching, migration	Water quality impact [Mild]	Unlikely Tank bunded, no signs of spills or leaks noted. Groundwater likely to be deep beneath the Site and may be impacted by mining activities.	Very low
5a Waste stockpile (potential asbestos containing material) – northern parcel (Ty Oakley Farm)	Asbestos	Current Site users – Site workers, public open space users	Direct contact, inhalation of dust/fibres	Health Hazard [Medium]	Unlikely Waste located in areas away from the proposed structures and access ways as well as PROW, limited potential for exposure during routine activities.	Low

Potential source	Potential pollutant	Potential receptors	Potential pathways to receptors	Associated hazard [severity]	Likelihood of occurrence	Risk/ significance
	Asbestos	Future Site users – Site workers, public open space users	Direct contact, inhalation of dust/fibres	Health Hazard [Medium]	Unlikely Waste located in areas away from the proposed structures and access ways as well as PROW, limited potential for exposure during routine activities. Construction phase of the Proposed Development will be compliant with the Control of Asbestos Regulations 2012 and restored / reused soils will be confirmed to be suitable for use in accordance with a Materials Management Plan (MMP).	Low
5b Waste stockpiles (potential asbestos containing material) – southern parcel (Glan Shon Farm)	Asbestos, heavy metals	Current Site users – Site workers, public open space users	Direct contact, inhalation of dust/fibres	Health Hazard [Medium]	Low Likelihood Possible asbestos containing materials noted. Waste located in areas away from the proposed structures however located in close vicinity to parts of the PROW	Moderate/low
	Asbestos, heavy metals	Future Site users – Site workers, public open space users	Direct contact, inhalation of dust/fibres	Health Hazard [Medium]	Low Likelihood Possible asbestos containing materials noted. Waste located in areas away from the proposed structures and access ways however located in close vicinity to parts of the PROW. Waste located in areas away from the proposed structures and access ways as well as PROW, limited potential for exposure during routine activities. Construction phase of the Proposed Development will be compliant with the Control of Asbestos Regulations 2012	Moderate/low

Potential source	Potential pollutant	Potential receptors	Potential pathways to receptors	Associated hazard [severity]	Likelihood of occurrence	Risk/ significance
					and restored / reused soils will be confirmed to be suitable for use in accordance with a Materials Management Plan (MMP).	
6 Made ground (infilled land in south land parcel)	Asbestos, heavy metals, pH, hydrocarbons, ground gases (carbon dioxide, methane)	Current Site users – Site workers, public open space users	Direct contact, inhalation, ingestion, vapour inhalation	Health Hazard [Medium]	Low Likelihood Any impact is likely to be localised/diffuse (small scale excavation infilled) and fill material is unlikely to be disturbed during routine Site activities. Limited exposure potential for visitors to Site. Site workers to use appropriate PPE for ground conditions encountered.	Moderate/low
	Asbestos, heavy metals, pH, hydrocarbons, ground gases (carbon dioxide, methane)	Future Site users – Site workers, public open space users	Direct contact, inhalation, ingestion, vapour inhalation	Health Hazard [Medium]	Low Likelihood Any impact is likely to be localised/diffuse (small scale excavation infilled) and fill material is unlikely to be disturbed during routine Site activities. Limited exposure potential for visitors to Site. Wind farm workers will wear PPE and will not disturb soils during normal activities.	Moderate/low
	Heavy metals, pH, hydrocarbons, ground gases (carbon dioxide, methane)	Future buildings and services	Direct contact	Degradation of concrete, impact on in ground services [Medium]	Unlikely Infilled land not located in vicinity of Proposed structures/services.	Low
	Heavy metals, pH, hydrocarbons,	Controlled water – surface water	Run off, base flow	Water quality impact [Mild]	Unlikely Potential for runoff and groundwater baseflow to affect watercourses. Contamination anticipated to be	Very low

Potential source	Potential pollutant	Potential receptors	Potential pathways to receptors	Associated hazard [severity]	Likelihood of occurrence	Risk/ significance
					localised/limited although unknown composition of made ground. Attenuation likely.	
	Heavy metals, pH, hydrocarbons,	Controlled water – groundwater	Leaching, migration	Water quality impact [Mild]	Unlikely Groundwater likely to be deep beneath the Site and may be impacted by mining activities. Potential for runoff and groundwater baseflow to affect watercourses. Contamination anticipated to be localised/limited although unknown composition of made ground. Attenuation likely.	Very low
7 Burning ground – southern parcel (Glan Shon Farm)	Hydrocarbons, PAHs, VOCs, heavy metals	Current Site users – Site workers, public open space users	Direct contact, inhalation, ingestion, vapour inhalation	Health Hazard [Medium]	Low Likelihood Any impact is likely to be highly localised/diffuse and is unlikely to be disturbed during routine Site activities although located adjacent to PROW. Limited exposure potential for visitors to Site.	Moderate/low
	Hydrocarbons, PAHs, VOCs, heavy metals	Future Site users – Site workers, public open space users	Direct contact, inhalation, ingestion, vapour inhalation	Health Hazard [Medium]	Low Likelihood Any impact is likely to be highly localised/diffuse and is unlikely to be disturbed during routine Site activities although located adjacent to PROW. Limited exposure potential for visitors to Site. Wind farm workers will wear PPE and will not disturb soils during normal activities.	Moderate/low

Potential source	Potential pollutant	Potential receptors	Potential pathways to receptors	Associated hazard [severity]	Likelihood of occurrence	Risk/ significance
	Hydrocarbons, PAHs, VOCs, heavy metals	Future buildings and services	Direct contact	Degradation of concrete, impact on in ground services [Medium]	Unlikely Infilled land not located in vicinity of Proposed structures/services.	Low
	Hydrocarbons, PAHs, VOCs, heavy metals	Controlled water – surface water	Run off, base flow	Water quality impact [Mild]	Unlikely Potential for runoff and groundwater baseflow to affect watercourses. Contamination anticipated to be localised/limited although. Attenuation likely.	Very low
	Hydrocarbons, PAHs, VOCs, heavy metals	Controlled water – groundwater	Leaching, migration	Water quality impact [Mild]	Unlikely Groundwater likely to be deep beneath the Site and may be impacted by mining activities. Potential for runoff and groundwater baseflow to affect watercourses. Contamination anticipated to be localised/limited. Attenuation likely.	Very low
8 Active Hafod Fach sandstone quarry	Hydrocarbons, PAHs, VOCs, heavy metals, pH, inorganics	Controlled water – groundwater	Leaching, migration	Water quality impact [Mild]	Low likelihood Although likely to be downgradient of the site, groundwater in bedrock at the offsite quarry could migrate towards the site. Quarry activities could potentially impact on groundwater quality however groundwater likely to be deep beneath the quarry and the site may be impacted by historical mining activities.	Low

4. Geohazards

A review of potential geohazards has been completed, using the information listed in Section 1. The coal mining legacy is considered separately. The following potential geotechnical constraints have been identified.

- Reworked ground/made ground: there is potential for made ground to be present on Site given the area of potentially infilled land in the south. Mine spoil/tipped materials have been identified outside the Site boundary and may locally encroach onto Site but are not considered to represent a significant constraint to the Proposed Development in the current layout.
- Faults: a fault has been recorded on Site. Although there is no evidence of recent movement associated with the faulting, the fault should be avoided when determining locations for wind farm infrastructure.
- Peat: potential for landslide/instability. Previous investigation within the Proposed Development identified that the peat thickness has been contoured as being between 0m and 0.1m. Considering the thin nature or absence of peat it is not considered to be significant constraint.
- Bedrock: bedrock is anticipated to be present at shallow depth across the Site, with locally superficial deposits overlying. Where the bedrock is intact, it should provide a suitable founding stratum for the identified infrastructure. It is not known whether bedrock has a weathered upper layer, which may require deepening of foundations.
- Slope stability: The OS maps record evidence of slope instability on the valley sides, which is also shown on the BGS GeoIndex in the form of landslide deposits. The BGS memoir notes landslides on the steep valley sides are common in the South Wales coalfield, where Pennant Sandstone overlies weaker mudstone strata. It notes that most of the movement took place on periglacial conditions during deglaciation, when the support of valley glaciers was removed. It is noted that mass movement does continue, and instability of valley slopes can still present engineering problems. Considering the locations of the proposed turbine structures on the plateau, the risk from mass movement of the valley slopes is considered to be small, however this should be confirmed at detailed design stage. Most of the proposed wind farm infrastructure is located on the undulating plateau, and slope stability is therefore not considered to be a significant constraint for most structures. From the walkover, steep slopes were observed within the northern boundary of the Site (>50 degrees), with evidence of ground instability (backscars, undulating ground and tension cracks). The extent of these should be considered further in detailed design.
- Soil chemistry: any peat (although locally very thin) is likely to be acidic and sulphate minerals may be present within the bedrock strata. This should be assessed to determine the requirements for in-ground concrete structures.
- Existing utilities: both overhead and underground utilities should be considered when designing, planning and undertaking intrusive works. Utilities information has been obtained as part of this study.

5. Conclusions and recommendations

5.1 Conclusions

Contamination

The Site is primarily used for agriculture, mainly sheep grazing, with some cattle and poultry present, and based on the presence of orchards adjacent to the north parcel, some limited potential for future crops. Minor contamination sources have been identified as potential residual mine waste/ spoil (likely to be limited in extent if present), current and former agricultural activities, active diesel tanks, potentially asbestos containing waste in stockpiles, infilled ground (made ground) and a burning pit. The sources identified are small-scale and localised or diffuse in nature. The coal mining history of the Site also means that there is potential for mine gas to be present.

The risks to current site users' human health from potential contaminants in soils arising from mining waste, agricultural operations are assessed to be very low. In relation to potential metal / other contamination in mine waste, there is no evidence of vegetation dieback at surface that could indicate large areas of near surface contamination. Future Site users, including agricultural workers, wind farm workers and open space users, are unlikely to disturb contaminated soil during normal Site usage. Low risks have been assigned to human health risk from potential contaminants associated with active diesel tanks and waste stockpiles in the northern parcel. A low risk to current site users is also assigned to mine gas (given the limited presence of enclosed spaces currently present).

Human health risks associated with the infilled land in the south have been allocated a moderate/low risk rating for both current and future site users associated with waste stockpiles (potentially with asbestos content), and infilled ground and the burning ground in the south land parcel. Risks to future site users associated with mine gas also been assessed as moderate/low given that the Proposed Development will introduce limited enclosed spaces where gas could accumulate, although these will be used infrequently. The risk level reflects the severity of consequence of a contaminant linkage being realised and can be lowered through further investigation including gas monitoring.

Risks to surface water are assessed to be very low, as surface water receptors are either not located near potential sources, or the source, if present, is likely to be of limited extent and unlikely to result in significant degradation of water quality.

The risks to groundwater from the identified sources are assessed to be very low for onsite sources, and low for the offsite quarry, given the nature of the sources and the likelihood that groundwater in the bedrock aquifer is likely to be at depth and likely to have been impacted by historical mining activities in the wider area.

Risks to future buildings and infrastructure have been assessed as low to very low given the generally limited nature of the sources and the distance from sources to the proposed buildings and infrastructure.

Risks to future agricultural property (cattle, poultry, sheep, crops) due to the potential for the Proposed Development construction works to encounter residual unrecorded mine wastes are assessed as very low, this is on the basis that mine waste is likely to be limited / localised if present, and reused soils will be subject to materials management planning and assessed to be suitable for use before being used within the Proposed Development.

As previously discussed, the conceptual model does not consider risks to construction /Site maintenance workers on the basis that risks to workers will be dealt with under the Health and Safety at Work Act (1974) and regulations made under the Act. Site-specific contamination data obtained through subsequent assessments of the Site should be included in the health and safety file for the proposed works, to enable any contractors to address as necessary in their risk assessments and method statements.

Geotechnical

A review of geohazards has identified potential constraints for the Proposed Development. The Site has and is primarily used for agriculture, therefore no historically significant development has been identified. Constraints include possible weathering of shallow bedrock, localised slope instability and the presence of acidic soils either due to the presence of peat (thin surface layer has been confirmed on parts of the site) or sulphate minerals associated with the bedrock strata.

A utilities survey was undertaken on the Site in 2001 that identifies both overhead and underground services. These services do not however pose a risk to development on Site if they are taken into consideration during planning of both intrusive investigation works and permanent developments.

The Coal Authority identifies the area as being in an area of surface coal resources with some areas of high risk development across the Site. The coal risk on Site is discussed in the Coal Mining Risk Assessment in **Annex A**.

These constraints will require further assessment as part of the detailed design process prior to construction of the Proposed Development, and it is recommended that intrusive ground investigation is undertaken to inform this assessment.

5.2 Recommendations

The desk-based assessment has identified some potential contamination constraints associated with the proposed future wind farm use of the Site. No ground investigation data is currently available for the Site with the exception of shallow peat survey data.

The potential land contamination constraints can be mitigated through targeted ground investigation to include gas monitoring where buildings / enclosed spaces are to be constructed. The investigation could also be used to confirm the presence/absence of contamination in shallow soils (e.g., by metals and hydrocarbons), in areas where development is proposed, method statements including procedures for encountering unexpected contamination, Environmental Management Plans, and health and safety plans for the works. The findings of these investigations and soil testing should inform the detailed design of the Proposed Development and the design of any required remedial measures. It is recommended that this report and all previous reports be thoroughly consulted and incorporated where required into the package of information for the Site for any ground works.

Regarding the identified potential geohazards, it is recommended that an intrusive ground investigation is undertaken on the Site to mitigate the potential risks and constraints posed by these hazards.

A programme of intrusive investigation works with associated testing and monitoring for gas and groundwater should be undertaken at the proposed turbine and substation locations, and where with mine related features occur beneath access/internal roads.

Figures

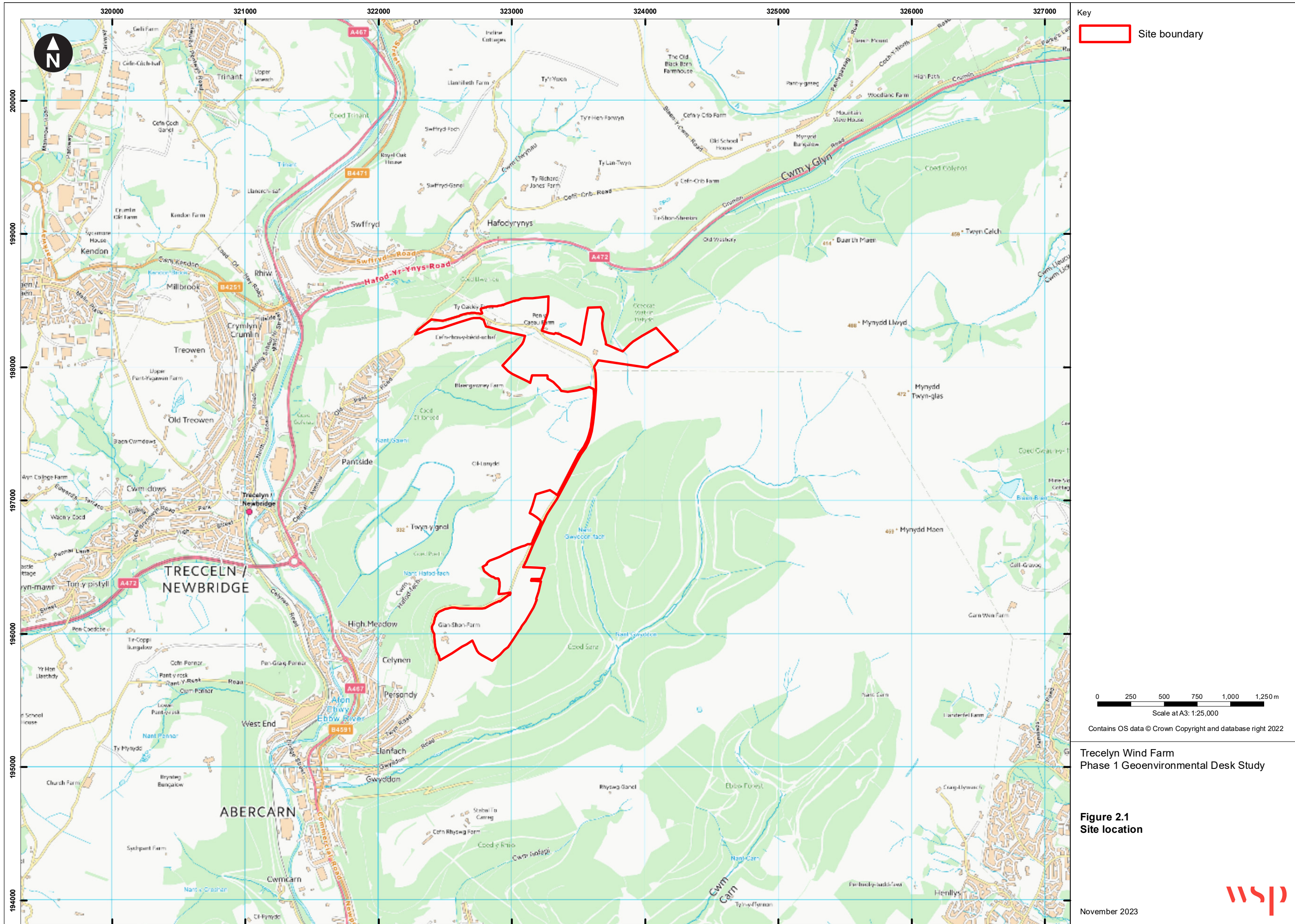
Figure 2.1 Site Location

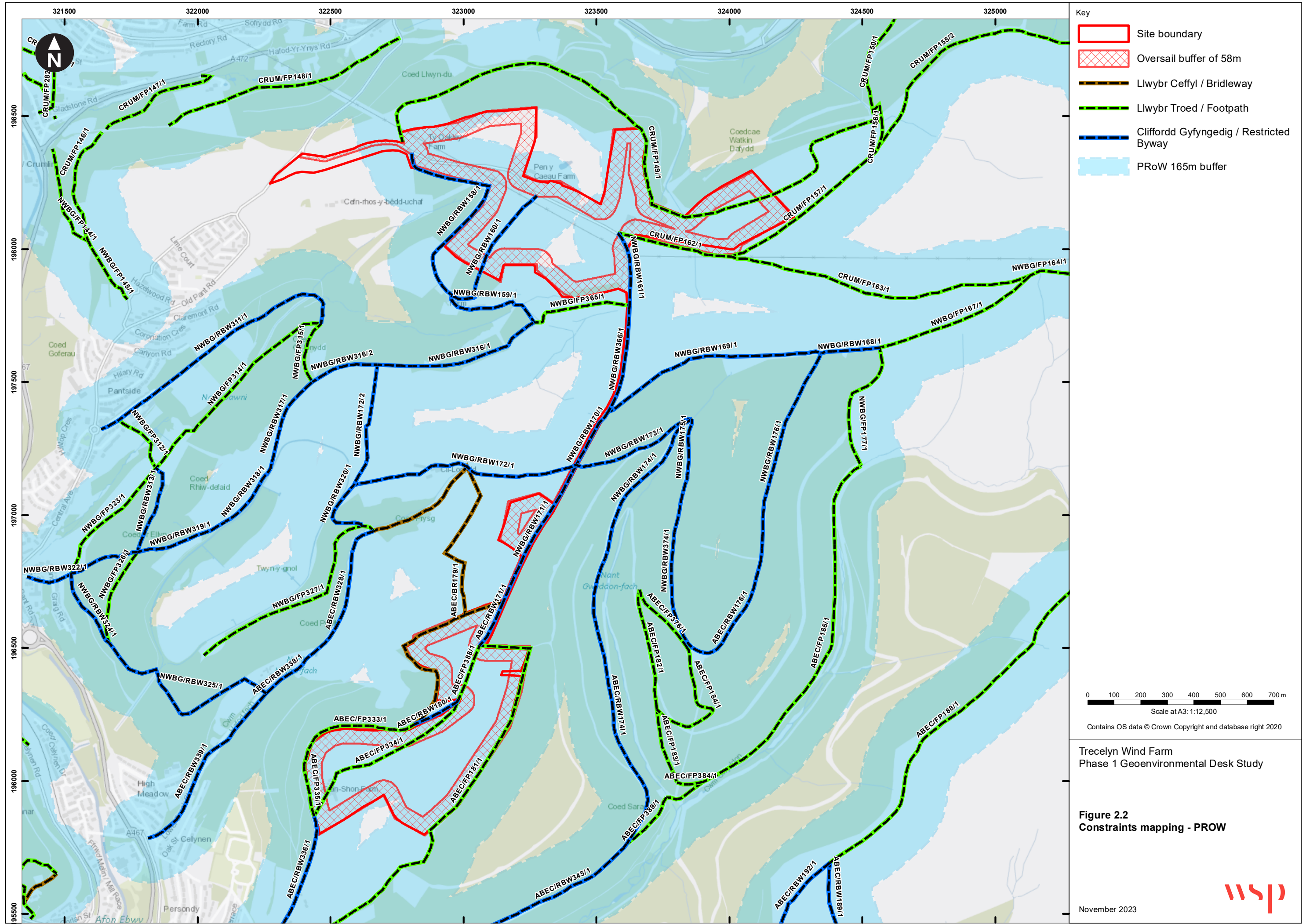
Figure 2.2 Site Constraints – PROW

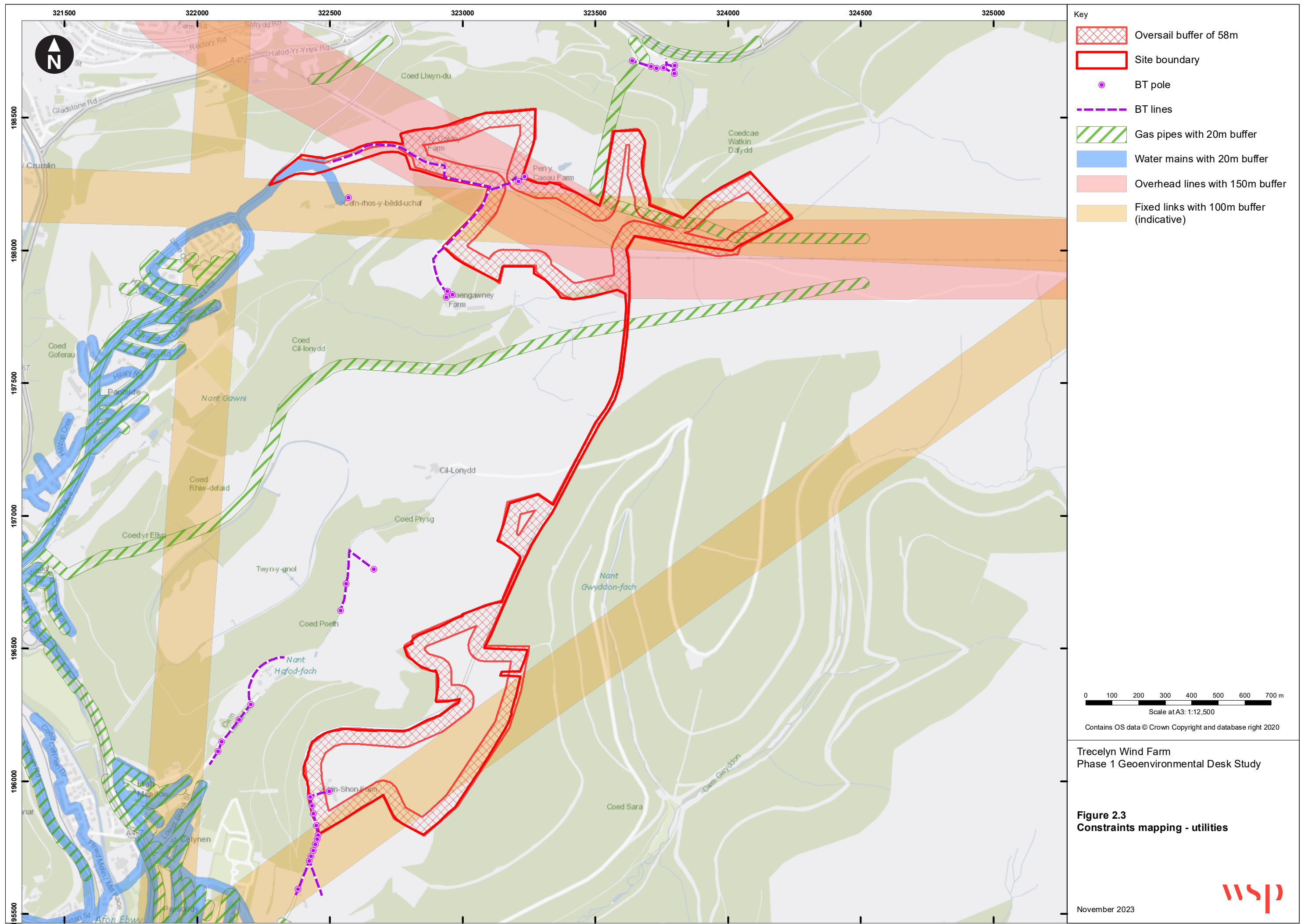
Figure 2.3 Site Constraints – Utilities

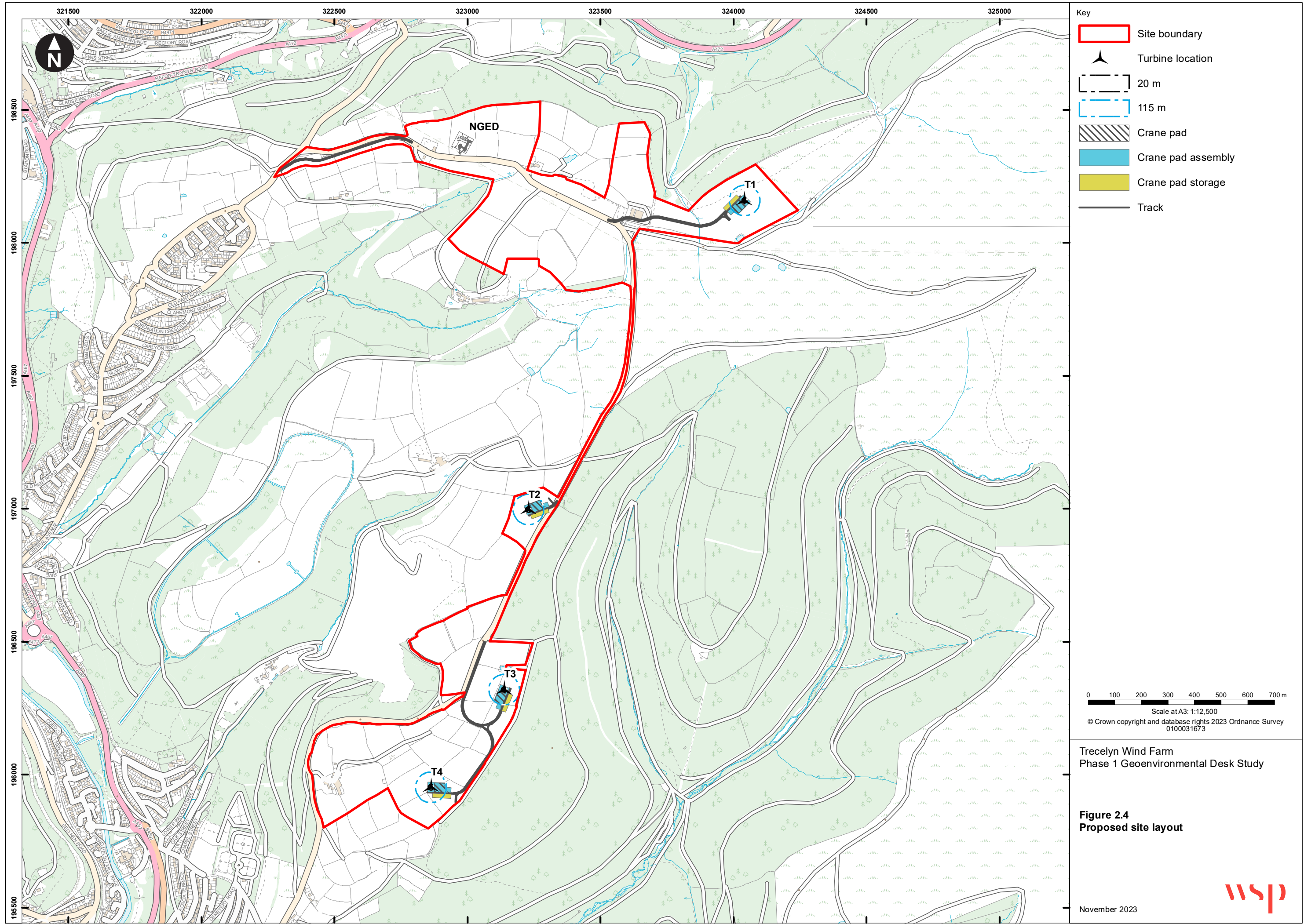
Figure 2.4 Proposed Site Layout

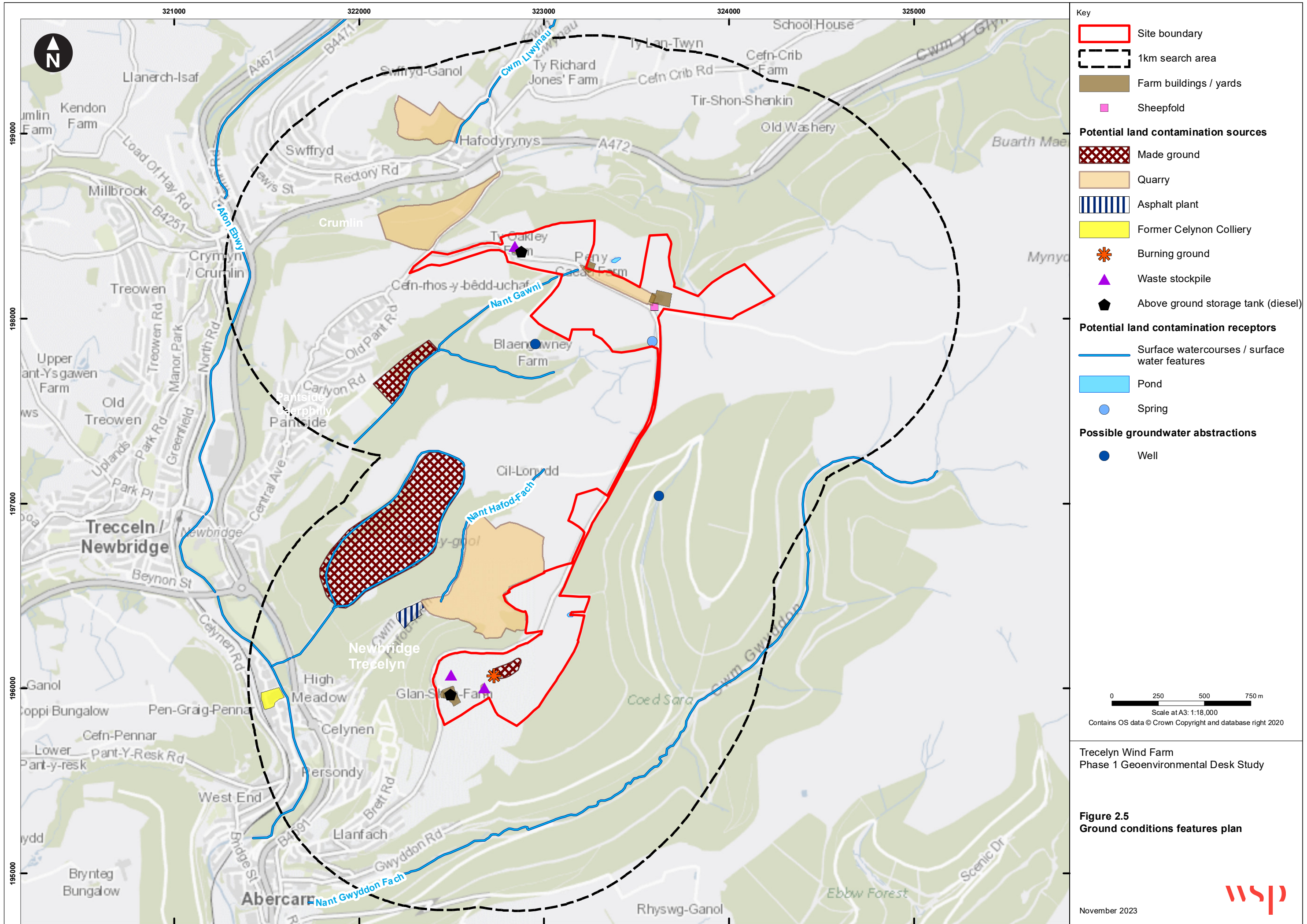
Figure 2.5 Ground Conditions Features Plan











Annex A

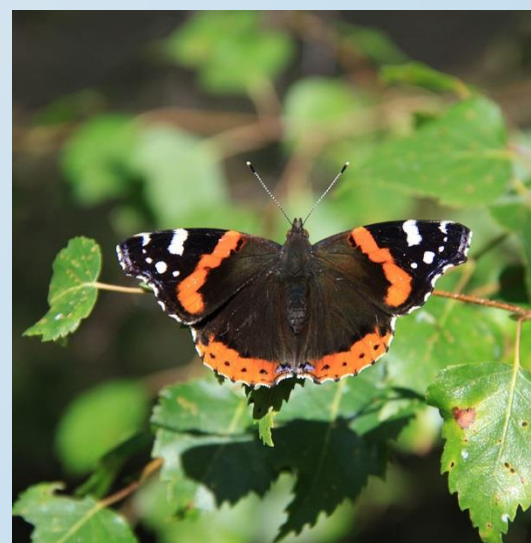
Coal Mining Risk Assessment



Pennant Walters Ltd.

Trecelyn Wind Farm

Coal Mining Risk Assessment



October 2023

Report for

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Document revisions

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1. Introduction

1.1 Background

Pennant Walters Ltd. proposes the development of a wind farm in South Wales comprising up to five wind turbines and ancillary infrastructure.

A Scoping Report for the Site, prepared by WSP, formerly Wood (Reference 807379-WOOD-RP-MD-00001, dated August 2022), identified that the Site has a history of coal mining and therefore it is necessary to prepare a detailed Coal Mining Risk Assessment (CMRA) to support an Environmental Impact Assessment prepared by WSP to accompany the planning application for the wind farm development.

WSP have produced a Phase 1 Geoenvironmental Desk Study (807379-WOOD-RP-OC-00001) to accompany this CMRA.

1.2 Site Location

The Proposed Development would take place across three parcels of land (the “Site”) the land within the red line boundary is comprised of a mix of semi-improved and unimproved grassland. A site location plan is provided as Appendix A. The centred location of the three parcels of land is identified below:

- Northern Parcel – Grid Reference ST 23440 98116
- Central Parcel – Grid Reference ST 23193 96915
- Southern Parcel – Grid Reference ST 22902 96117

The Site is located on the upper slopes (between approximately 340 m and 400 m AOD) of ridges that extend to the west and south-west of the massif formed by Mynydd Llwyd, Mynydd Twyn-glas and Mynydd Maen. The southern and central parts of the Site are separated from Mynydd Maen, to the east, by the deeply incised and heavily afforested valleys of Nant Gwyddon, which also extends to the immediate south of the Site before joining the Ebbw River at Abercarn.

To the north, the Site is separated from the Cefn Crib/Mynydd Llanhilleth massif by Cwm y Glyn, which runs eastward toward Pontypool, and by the valley of a minor tributary of the Ebbw River to the west. To the west of the Site, several tributaries of the Ebbw River have created a complex of ridges and valleys that reduce in elevation westward toward the valley of the Ebbw River. The most southerly of these, adjacent to the southern and central parts of the Site, is the steep-sided Cwm Hafod-fach, the northern end of which is occupied by the Hafod sandstone quarry. The northern part of the Site extends westward as far as the much more open valley of Nant Gawni.

Please note that the data request to the Coal Authority included coverage of additional land to the south of the site but this does not form part of the red line boundary for the Proposed Development.

1.3 Site Description

Land within the Proposed Development site boundary currently comprises agricultural fields which are a mix of semi-improved and unimproved grassland. Farm buildings are present in the Northern Parcel, and there is evidence of a small quarry located approximately centrally on the northern boundary of the Northern Parcel. In the Northern and Southern Parcels woodland and trees are present along most field boundaries.

The Proposed Development is located on the lower hills to the west of the Mynydd Llwyd and Mynydd Maen ridges. The topography generally slopes down from the east to the west southwest, into the valleys associated with tributaries to the Afon Ebwy river (the Nant Gawni and Nant Hafod-fach), which runs roughly parallel to the A467 road to its west side. OS mapping indicates the high point on the site of the Proposed Development is at approximately 400mAOD (Northern Parcel).

1.4 Proposed Development

The Proposed Development is to construct and operate a wind farm of up to five turbines and associated infrastructure including underground cabling, access tracks, transformer and a substation.

Turbines

The proposed turbines are yet to be selected but are considered to be based on heights to blade tip of up to 145m and rotor diameter of up to 117m. The turbines are currently anticipated to be constructed on reinforced concrete foundations. These will be dressed back with topsoil to allow re-vegetation. Turbine foundations could be larger or smaller, depending on imposed loadings, ground conditions and drainage design which are preliminary at this stage.

Crane pads

Each wind turbine requires an area of hardstanding to be built adjacent to the turbine foundation. This provides a stable base on which to lay down turbine components ready for assembly and erection.

The crane hardstanding will be left in place following construction in order to allow for the use of similar plant should major components need replacing during the operation of the wind farm.

Cabling

Underground cables will link the turbines on each of the two parcels of land and to the Point of Connection situated in the northern parcel of land.

1.5 Sources of Information

The following sources of information have been consulted in the preparation of the CMRA:

- British Geological Survey (BGS) GeoIndex online mapping, including online geological maps and historical borehole logs <https://mapapps2.bgs.ac.uk/geoindex/home.html> (accessed in August 2023).
- CIRIA C758D (2019): Abandoned Mine Workings Manual.
- Coal Authority Interactive Map Viewer <https://mapapps2.bgs.ac.uk/coalauthority/home.html> (accessed in August 2023).
- Coal Authority Consultants Coal Mining Report (CCMR) Report Ref. 51002544611001, dated 14 May 2021 (presented in Appendix B).
- British Geological Survey (BGS) 1:10,560 geological sheet map ST29NW, solid and drift 1972.
- Geology of the South Wales Coalfield: Part 1 - The country around Newport (Mon.) (Explanation of One-inch Geological Sheet 249, New Series), 1969.
- WSP Mynydd Maen/Trecelyn Wind Farm Phase 1 Geoenvironmental Desk Study (807379-WOOD-RP-OC-00001), October 2023.

- Envirocheck Report reference 21966268, dated 03 August 2023.

1.6 Limitations

The conclusions reached and advice provided in this report are based in part upon information and/or documents that have been prepared by third parties. In view of this, we accept no responsibility or liability of any kind in relation to such third-party information and no representation, warranty or undertaking of any kind, express or implied, is made with respect to the completeness, accuracy or adequacy of such third-party information. In preparing this report we have assumed that all information provided by the Client is complete and accurate.

2. Site History

A summary of the historical development of the site of the Proposed Development, based on historical Ordnance Survey (OS) maps, is provided below. The historical maps can be found within the Envirocheck Report, appended to the Desk Study report.

Historical mapping (Scale 1:10,560) from 1886 shows Celynen Colliery (aka Celynen South Colliery) approximately 1.6km south west of the Southern Parcel, west of the Afon Ebwy River. Shafts, air shafts, a well and railway sidings off the Monmouthshire Section Western Valley railway are shown. This area is now developed as residential housing. Anecdotal internet information indicates the colliery closed in 1987. Several industrial land uses were present in Crumlin by 1886, including an iron works, a gas works and a sawmill, however these are all over 1km from the Proposed Development site.

By 1902 an old sandstone quarry was present ~450m west of the Northern Parcel, and by 1922 a second quarry was present immediately south of it. The 1922 map shows Celynen North Colliery development west of the Proposed Development site (over 1km away from all site areas).

By 1965 a large spoil heap area (~21 hectares) is shown ~450m northwest of the Southern Parcel. This is connected to a mine outside the study area (formerly known as the Celynen South Colliery) via an aerial ropeway. Based on current aerial photography, this appears to be a mine spoil heap which has been landscaped and is now partially vegetated. A second area of waste disposal is shown ~795m southwest of the Northern Parcel. Based on current aerial photography and Google Streetview imagery this also appears to be mine spoil heap.

3. Geological Information

3.1 Geological Mapping

The British Geological Survey (BGS) 1:50,000 scale superficial geology mapping shows no artificial ground or superficial deposits on the site of the Proposed Development. This indicates potential for outcropping rock to be present, and soils present on the Proposed Development site may be thin. Within the study area, in the valley to the southwest at the A467 and to the north at the A472, Devensian Glaciofluvial Deposits (sand and gravel) and Alluvium (clay, silt, sand and gravel) are present.

The BGS mass-movement Geoindex layer shows a mapped landslide deposit (sandstone) outside of the site but within ~100m north of the Northern Parcel. Visual checks with aerial photographs have not indicated evidence of this.

The BGS 1:50,000 scale mapping available on the GeoIndex, shows the bedrock underlying the Proposed Development site to be the Hughes Member Sandstone (Pennant Sandstone Formation). The Hughes Member comprises green-grey, lithic arenites ('Pennant sandstones') with thin mudstone/siltstone and seatearth interbeds and mainly thin coals.

A fault (Glyn Fault) is shown running at surface, southwest to northeast through the Northern Parcel and mapped to downthrow to the northwest.

The Northern Parcel is indicated by the Coal Authority, but not on the published geology, to be underlain by two coal seams which outcrop at its northern and western end. These seams are conjectured to be the Mynyddislwyn coal seam (My) (also known as Llantwit No. 3) which is indicated to be two separate partings. The Mynyddislwyn coal seam has a thickness of approximately 1.70m.

The Southern Parcel is indicated by the Coal Authority, but not on the published geology, to be underlain by one coal seam outcropping at its western end. This seam is conjectured to be the Mynyddislwyn coal seam which is indicated to be a single seam when separated by less than 10 foot (~3.0m).

3.2 Historical Boreholes

There are no BGS borehole records within the site of the Proposed Development.

A borehole (ST29NW26) ~40m west of the Northern Parcel was undertaken to prove deeper coal seams. The borehole record starts at a depth of ~100m below ground level (bgl) with no details of the ground above to the surface.

Two boreholes are present ~50m west of the Southern Parcel, roughly located on the conjectured Cefn Glas coal seam. These boreholes indicated between 2.60 and 4.50m of soil (red brown clay and grit) overlying gritstone, interpreted as the Hughes Member bedrock. Intermittent coal partings (10 to 20cm) and coal laminations are noted within both boreholes throughout the depth. The boreholes were taken to a total depth of 65.0m and terminated within the gritstone.

3.3 Previous Ground Investigation

No previous ground investigations are available for review.

4. Coal Mining Risks

4.1 Introduction

The Coal Authority Interactive Online Viewer records the Proposed Development to be at risk from the local coal mining legacy. These risks include the Proposed Development being within:

- Areas of development high risk.
- Coal outcrops.

The following section provides a summary of these identified risks to the Proposed Development from the coal mining legacy. A Consultants Coal Mining Report (CCMR) has been obtained from the Coal Authority for the site.

A number of Development High Risk Areas cross the site of the Proposed Development and are considered to be associated with seams of a workable thickness as identified by the Coal Authority. Development High Risk Areas as shown on the Coal Authority WMS layer are presented as Figure 5.

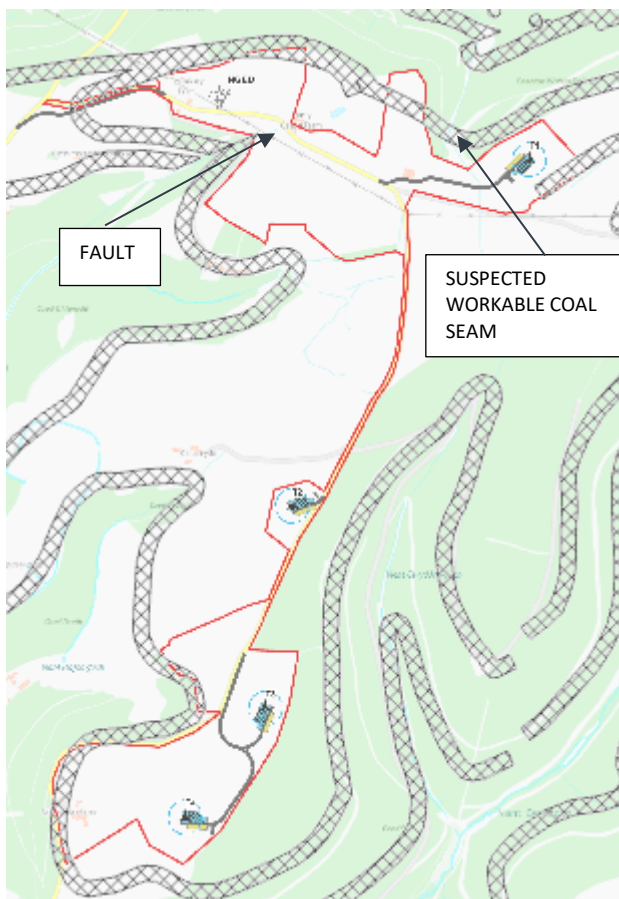


Figure 4-1: Development High Risk Areas

Note: The dataset covers a red line boundary encompassing the former boundary with an access road shown in the south which is no longer part of the scheme.

4.2 Coal Workings

The CCMRs indicate that recorded underground coal mining has taken place beneath all areas of the Proposed Development.

The CCMR indicates past underground mining beneath the Proposed Development in eight seams at depths of between 179 m and 516 m bgl. These seams are detailed below:

- Tillery Brithdir (up to 1.2m thick),
- No. 2 Rhondda (0.8m thick),
- Upper Six Foot Rider (1.0m thick),
- Lower Nine Foot (2.5m thick),
- Six Foot Bottom Leaf (1.4m thick),
- Four Foot (1.6m thick),
- Seven Foot Rider (2.5m thick) and
- Five Foot Gellideg (1.5m thick).

Although, numerous seams, they are considered to be worked at a sufficient depth and with a specific recorded extraction thickness without a cumulative effect, to not be at risk to the site.

The CCMR indicates that there are no probable unrecorded shallow coal workings beneath the Proposed Development.

4.3 Workable Coal Outcrops

As a function of the variable topography and geology beneath the different areas of the Proposed Development, the coal seam outcrop patterns vary. The CCMR identifies one coal seam outcrop (either conjectured or actual seam outcrop locations) within the Proposed Development.

The seam present beneath the Proposed Development is the Mynyddislwyn Lower Leaf and is indicated to be of sufficient thickness and/or quality by the Coal Authority (CA) to have been worked. The development high risk areas at the Proposed Development are associated with this seam and a defined 50 metre buffer on the coal (dip) side of the outcrop as shown within Figure 4-1.

There is a discrepancy between the BGS and CA data for the Proposed Development. The Mynyddislwyn Lower Leaf coal seam is identified by the CA to be present underling the Northern Parcel but no coal outcrops are present on the BGS 1:10,560 geological map for the wider area.

Similarly, the Mynyddislwyn coal seam is indicated by the CA to outcrop to the west and south of the Southern Parcel. This is not reflected on the BGS mapping.

The BGS memoirs indicates that the Mynyddislwyn has been exploited extensively within the wider area and consists of two distinct coals, the Lower and Upper Leaf Mynyddislwyn. The Lower Leaf is reported to be thinner and of poorer quality than the upper coal with workings only on a small scale. Although limited, the historical borehole undertaken within the indicated outcrop of the Mynyddislwyn seam, did not identify a distinct coal seam. Where the Mynyddislwyn coal seam is combined, it has a published thickness of approximately 1.70m. As only the Lower Leaf seam is indicated to be present, a much thinner or entirely absent coal seam is anticipated.

The Coal Authority were contacted to explore the discrepancy between their dataset and those held by the BGS and provided the following explanation:

- The outcrops that the CA report on, were collated by the then National Coal Board (NCB) in the 1980's/ early 1990's during the rationalisation process. This process involved combining the outcrops in abandonment plans (where there was shallow coal and outcrops were mapped), local mining knowledge, exploration works and interpretation of the geological information, all conducted by the local NCB offices around the country;
- The interpretation of the area by the NCB would have lead them to believe these seams would be of a thickness greater than this 0.3m threshold; and
- The lack of Probable Unrecorded Shallow Workings would indicate that the local NCB office, based on their local knowledge and expertise that these seams were most likely not mined in the area.

Following this correspondence with the CA, there remains an unresolved discrepancy between the datasets.

4.4 Geological Features

The map provided with the CCMR records an inferred fault running southwest to northeast in the Northern Parcel.

No fissures are indicated to be present within the Proposed Development.

4.5 Mine Entries

The CCMR records no mine entries are present on or within 100m of the Proposed Development.

4.6 Surface Mining

The CCMR records no opencast mines are present on or within 500m of the Proposed Development.

5. Hazards and Mitigation Strategies

5.1 Identified Hazards

The study has identified a hazard relating to the coal mining legacy of the Proposed Development and the surrounding area. There are the potential coal outcrops of coal seams considered by the CA to be of a sufficient thickness and/or quality to have been worked.

A summary of the identified hazard, in relation to the proposed layout of the Proposed Development is summarised in **Table 5-1** below.

Table 5-1: Summary of mining hazards affecting proposed wind farm structures

Wind Farm Structures	Mining Hazards Identified
Turbine 1	On margin of Development High Risk Area. Shallowest seam anticipated to be Mynyddislwyn Lower Leaf.
Turbine 2	None identified.
Turbine 3	None identified.
Turbine 4	None identified.
Internal Access Road	None identified.
Grid Connection Corridor	On margin of Development High Risk Area. Shallowest seam anticipated to be Mynyddislwyn Lower Leaf. Area of identified instability/mass movement of the valley side slope noted approximately 200 m to the north of the proposed location.

There is uncertainty over the position and presence of the stated coal outcrops between the BGS and the CA datasets. Based on local mining knowledge, exploration works and interpretation of the geological information, the CA consider the Mynyddislwyn Lower Leaf coal seam to be present and with a thickness greater than 0.3m. There remains a risk from possible shallow workings.

Shallow abandoned mineworkings can present a significant risk to property and infrastructure as the collapse of such workings can cause subsidence at the surface, in the form of crown holes. It is generally considered that a solid rock cover of 10 times the seam thickness is required above abandoned mineworkings to minimise the risk of subsidence at the ground surface.

5.2 Geological Fissuring and Faulting

No fissuring has been identified within the Proposed Development although a fault is noted on published geological mapping. The published geological information indicates a large area of mass movement on the valley side approximately 200 m to the north of the grid connection.

The geological memoir indicates that landslips are common in the valleys of the South Wales Coalfield, where thick Pennant Sandstone overlies weak Rhondda Beds. The memoir describes three elements to the landslips: translational earth and debris flows in the toe region, rotational or slumping movement involving the main mass of the slip and toppling and rock fall involving detachment of Pennant sandstone blocks from the backscar area. The toppling and rock fall mechanism is enhanced by the reactivation of fault planes and subsidence fissures by undermining. The memoir concludes that *'although most of the movement took place in periglacial conditions during deglaciation when the support of valley glaciers was removed, mass movement continues today'*.

Examination of aerial imagery on Google Earth has not identified any apparent change in the morphology of the slope in this area. Given position of the grid connection behind the upper valley slope and on the plateau, the risk within the proposed design life is considered to be low.

5.3 Mitigation Strategies

It is apparent from the evidence above that the identified ground conditions present a risks to the Proposed Development. It is also clear from **Table 5-1** that many of the proposed wind farm structures are coincident with areas of identified mining hazards.

In order to further define the hazards above, with respect to the design and construction of the proposed wind farm development, more information is required on the ground conditions beneath the Proposed Development and the associated mining legacy hazards. Therefore, intrusive ground investigation will be required where wind turbines or associated wind farm infrastructure is proposed in areas affected by the hazard.

Intrusive investigation works are recommended to confirm seam depths, condition and thickness and inform the requirement for any mitigation measures, such as consolidation of mineworkings, design of alternative foundation solutions, or local re-siting of infrastructure to avoid identified hazard areas.

It would be necessary to apply for a Permit to Enter or Disturb Coal Mines from the Coal Authority, prior to undertaking any intrusive ground investigation works.

6. Conclusion

6.1 Conclusion

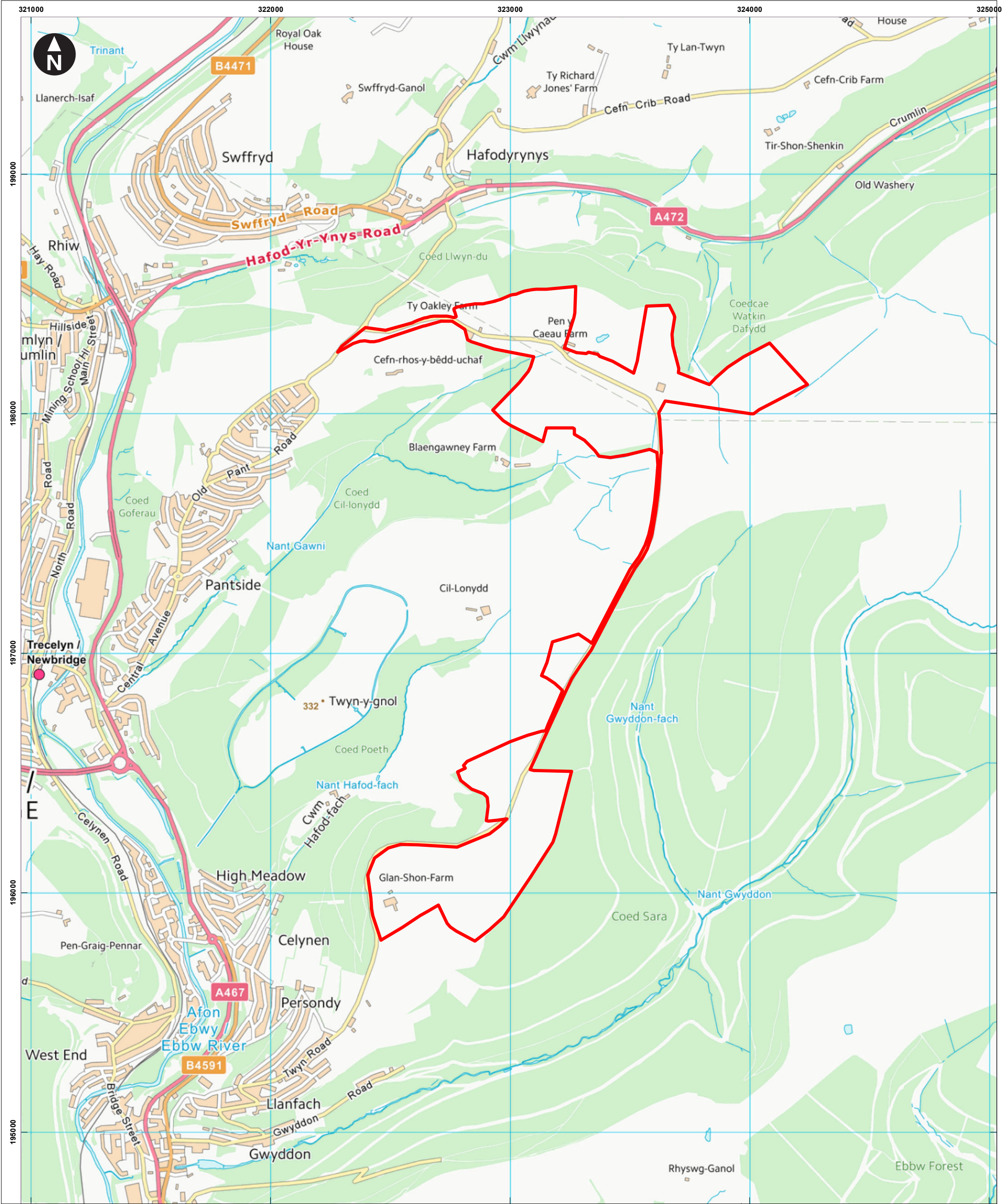
The Coal Mining Risk Assessment has identified hazards within the site of the Proposed Development relating to coal mining. In order to gain further information on these hazards, and to inform the design of any necessary mitigation works to allow the design and construction of the Proposed Development to proceed, intrusive investigation is required.

6.2 Recommendations

The following works are recommended:

- Design and implement a programme of intrusive ground investigation. The scope of the investigation will be informed by the layout of the Proposed Development and required for detailed design of the structures. Exploratory investigation of the identified coal mining hazards could be undertaken in tandem with the wider detailed design locations. The intrusive investigation is likely to include the following:
 - ▶ Rotary drilling to confirm the presence or depth and condition of the Mynyddislwyn seam (Turbine 1 and Grid Connection Corridor);
 - ▶ Rotary drilled boreholes to inform design of turbine foundations (All structures);
 - ▶ Groundwater and gas monitoring;
 - ▶ In situ geotechnical testing, geotechnical and chemical laboratory testing of soil and groundwater samples; and
 - ▶ Assess findings and provide preliminary options for mitigation of hazards.

Appendix A Drawings



Key

Site boundary

0100200300400500600700m

Scale at A3: 1:15,000
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0100031673

Trecelyn Wind Farm
Environmental Statement

Figure 1.1
Site location

October 2023

Appendix B Consultants Coal Mining Report

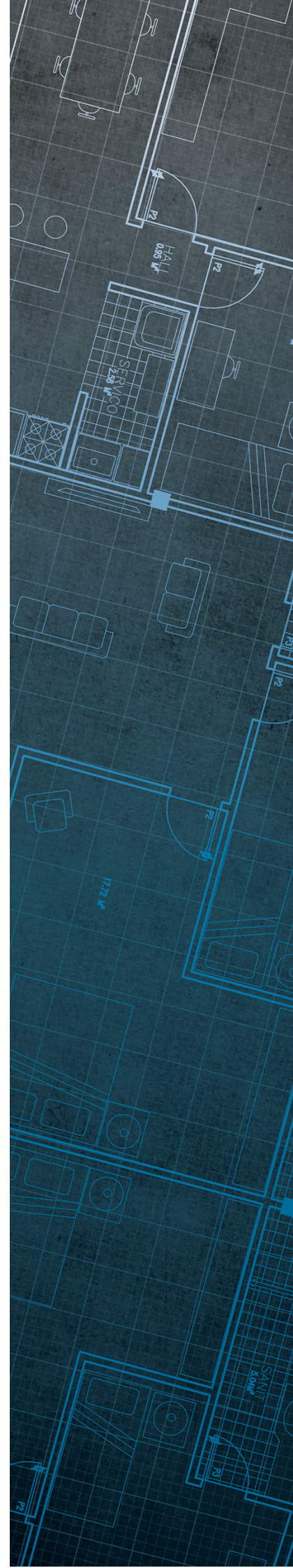


The Coal
Authority

Consultants Coal Mining Report

Mynydd Maen
North Yorkshire

Date of enquiry:	14 May 2021
Date enquiry received:	14 May 2021
Issue date:	5 July 2021
Our reference:	51002544611001
Your reference:	278621610_1



Consultants

Coal Mining Report

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

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Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	TILLERY BRITHDIR	Coal	47N5	179	Beneath Property	5.2	West	110	1968
unnamed	TILLERY BRITHDIR	Coal	47N7	188	Beneath Property	5.0	South-West	120	1934
unnamed	TILLERY BRITHDIR	Coal	47NL	196	Beneath Property	3.4	West	120	1957
unnamed	TILLERY BRITHDIR	Coal	47NI	208	East			120	1955
unnamed	TILLERY BRITHDIR	Coal	47NH	219	Beneath Property	3.7	South-West	120	1952
unnamed	TILLERY BRITHDIR	Coal	47N3	220	Beneath Property	4.7	West	110	1970
unnamed	TILLERY BRITHDIR	Coal	47N4	222	Beneath Property	3.6	South-West	110	1972
unnamed	NO.2 RHONDDA	Coal	41QN	293	Beneath Property	2.7	North-West	84	1887
CELYNEN SOUTH	LOWER NINE FOOT	Coal	47G1	311	North-East	4.3	West	210	1983
unnamed	6FT BOTTOM LEAF	Coal	47JJ	374	North-West	6.1	South-West	140	1918
unnamed	UPPER 6FT RIDER	Coal	47L3	387	Beneath Property	5.9	West	95	1936
unnamed	UPPER 6FT RIDER	Coal	47L1	402	South	3.8	West	105	1957
unnamed	LOWER NINE FOOT	Coal	47FZ	404	Beneath Property	2.1	West	198	1939
unnamed	LOWER NINE FOOT	Coal	47HE	404	North-West	6.0	West	300	1922
unnamed	LOWER NINE FOOT	Coal	47GJ	412	Beneath Property	10.6	North-West	330	1941
unnamed	LOWER NINE FOOT	Coal	47H5	420	Beneath Property	4.8	South-West	300	1930
unnamed	FOUR FOOT	Coal	41OP	422	Beneath Property	3.6	West	160	1956
unnamed	SEVEN FOOT RIDER	Coal	47EI	422	Beneath Property	7.4	West	246	1946
unnamed	LOWER NINE FOOT	Coal	47GI	422	North-West	6.4	South-West	330	1924
unnamed	SEVEN FOOT RIDER	Coal	47F2	424	Beneath Property	5.3	West	201	1935
unnamed	UPPER 6FT RIDER	Coal	47L5	425	Beneath Property	5.3	South-West	99	1959
unnamed	LOWER NINE FOOT	Coal	47GH	429	Beneath Property	5.9	West	330	1931

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	FOUR FOOT	Coal	41OQ	430	Beneath Property	5.5	West	140	1955
unnamed	FOUR FOOT	Coal	47LU	430	Beneath Property	5.2	West	100	1943
unnamed	LOWER NINE FOOT	Coal	47G4	430	Beneath Property	6.1	South-West	304	1893
unnamed	LOWER NINE FOOT	Coal	47GQ	430	East	3.3	North-West	200	1938
unnamed	LOWER NINE FOOT	Coal	47GS	430	East	3.1	North-West	200	1937
unnamed	UPPER 6FT RIDER	Coal	47L4	434	Beneath Property	3.9	West	190	1961
unnamed	LOWER NINE FOOT	Coal	40WI	434	Beneath Property	3.6	North-West	310	1900
unnamed	SEVEN FOOT RIDER	Coal	47EX	437	Beneath Property	4.8	West	216	1944
unnamed	LOWER NINE FOOT	Coal	47G9	443	Beneath Property	5.0	North-West	330	1929
unnamed	SEVEN FOOT RIDER	Coal	47E9	443	East	5.4	South-West	218	1933
unnamed	UPPER 6FT RIDER	Coal	47L2	445	Beneath Property	4.5	North-West	105	1960
unnamed	LOWER NINE FOOT	Coal	47GE	446	Beneath Property	6.3	West	330	1934
unnamed	SEVEN FOOT RIDER	Coal	47E5	447	Beneath Property	3.3	North-West	173	1939
unnamed	SEVEN FOOT RIDER	Coal	40TG	449	Beneath Property	4.5	South-West	191	1945
unnamed	SEVEN FOOT RIDER	Coal	40TC	449	East	0.0	East	151	1939
unnamed	LOWER NINE FOOT	Coal	40WK	451	South-West	3.8	North-West	310	1900
unnamed	FIVE FOOT GELLIDEG	Coal	40PO	453	Beneath Property	5.9	West	160	1949
unnamed	LOWER NINE FOOT	Coal	40WO	453	Beneath Property	0.0	East	213	1933
unnamed	LOWER NINE FOOT	Coal	40WN	453	East	0.0	East	213	1900
unnamed	FIVE FOOT GELLIDEG	Coal	47CP	456	Beneath Property	3.5	North-West	139	1947
unnamed	6FT BOTTOM LEAF	Coal	47JE	458	West	4.1	North-West	110	1950
unnamed	LOWER NINE FOOT	Coal	47G3	461	Beneath Property	4.9	West	304	1888
unnamed	LOWER NINE FOOT	Coal	47GB	461	South-West	6.7	West	330	1909
unnamed	LOWER NINE FOOT	Coal	40WP	462	Beneath Property	3.3	West	213	1935
unnamed	SEVEN FOOT RIDER	Coal	47E2	463	Beneath Property	3.5	West	171	1984

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	SEVEN FOOT RIDER	Coal	47E4	463	Beneath Property	0.4	South-West	150	1948
unnamed	LOWER NINE FOOT	Coal	47GA	464	Beneath Property	4.6	West	330	1924
CWMCARN	SEVEN FOOT RIDER	Coal	47E3	466	North-East	3.4	West	169	1981
unnamed	LOWER NINE FOOT	Coal	47G7	476	Beneath Property	4.3	South-West	304	1894
unnamed	LOWER NINE FOOT	Coal	47FY	477	North	2.3	North-West	290	1922
unnamed	LOWER NINE FOOT	Coal	47FX	479	Beneath Property	4.7	North-West	234	1967
unnamed	LOWER NINE FOOT	Coal	47GD	482	Beneath Property	4.0	West	330	1910
unnamed	SEVEN FOOT RIDER	Coal	47E0	483	West	5.2	North-West	225	1940
unnamed	SEVEN FOOT RIDER	Coal	47ED	485	West	6.5	West	166	1965
CWMCARN	SEVEN FOOT RIDER	Coal	40TF	486	Beneath Property	4.1	West	120	1983
unnamed	FIVE FOOT GELLIDEG	Coal	47CN	486	South	3.5	South-West	76	1962
unnamed	LOWER NINE FOOT	Coal	47G2	489	Beneath Property	4.5	North-West	304	1968
unnamed	LOWER NINE FOOT	Coal	47G0	490	Beneath Property	4.5	West	210	1896
unnamed	SEVEN FOOT RIDER	Coal	47EE	494	East	6.6	West	186	1938
unnamed	FIVE FOOT GELLIDEG	Coal	47CQ	494	West	4.8	West	198	1904
unnamed	FIVE FOOT GELLIDEG	Coal	47CR	496	Beneath Property	5.3	West	90	1962
unnamed	SEVEN FOOT RIDER	Coal	47E8	498	Beneath Property	4.9	West	184	1961
unnamed	SEVEN FOOT RIDER	Coal	40TE	500	North-West	3.3	East	171	1931
unnamed	SEVEN FOOT RIDER	Coal	47E6	500	North-West	0.0	East	159	1931
unnamed	SEVEN FOOT RIDER	Coal	47E1	502	Beneath Property	4.3	West	179	1973
unnamed	LOWER NINE FOOT	Coal	40WJ	503	South-West	1.0	West	310	1900
unnamed	SEVEN FOOT RIDER	Coal	47EG	507	West	6.5	West	174	1936
unnamed	FIVE FOOT GELLIDEG	Coal	47CM	508	Beneath Property	4.7	North-West	90	1964
unnamed	FIVE FOOT GELLIDEG	Coal	40PN	512	West	0.0	East	230	1920
unnamed	SEVEN FOOT RIDER	Coal	47E8	513	Beneath Property	1.5	West	197	1961
unnamed	FIVE FOOT GELLIDEG	Coal	47CO	516	Beneath Property	4.9	North-West	76	1963

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

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

SWA1094	SWA3109	SWA952
1021	SWA1081	SWA1095
SWA3944	SWA989	13611

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

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

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
BRITHDIR RIDER GROUP	Coal	Yes	Within	N/A	61
BRITHDIR RIDER GROUP	Coal	Yes	Within	N/A	62
MYNYDDISLWYN LOWER LEAF	Coal	Yes	63.1	South	45
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	47
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	58
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	64
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	70
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	84
MYNYDDISLWYN LOWER LEAF	Coal	Yes	32.4	North	105
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	115
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	191

Geological faults, fissures and breaklines

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

Faults under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

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

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

The property is in an area where notices to withdraw support were given in 1976 and 1982.

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

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

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

Development advice

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

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

Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

Opencast mines

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

Coal Authority managed tips

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

Site investigations

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

Remediated sites

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

Coal mining subsidence

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

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

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

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

Mine water treatment schemes

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

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

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

Future underground mining

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

Coal mining licensing

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

Court orders

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

Section 46 notices

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

Withdrawal of support notices


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


Payment to owners of former copyhold land


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

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

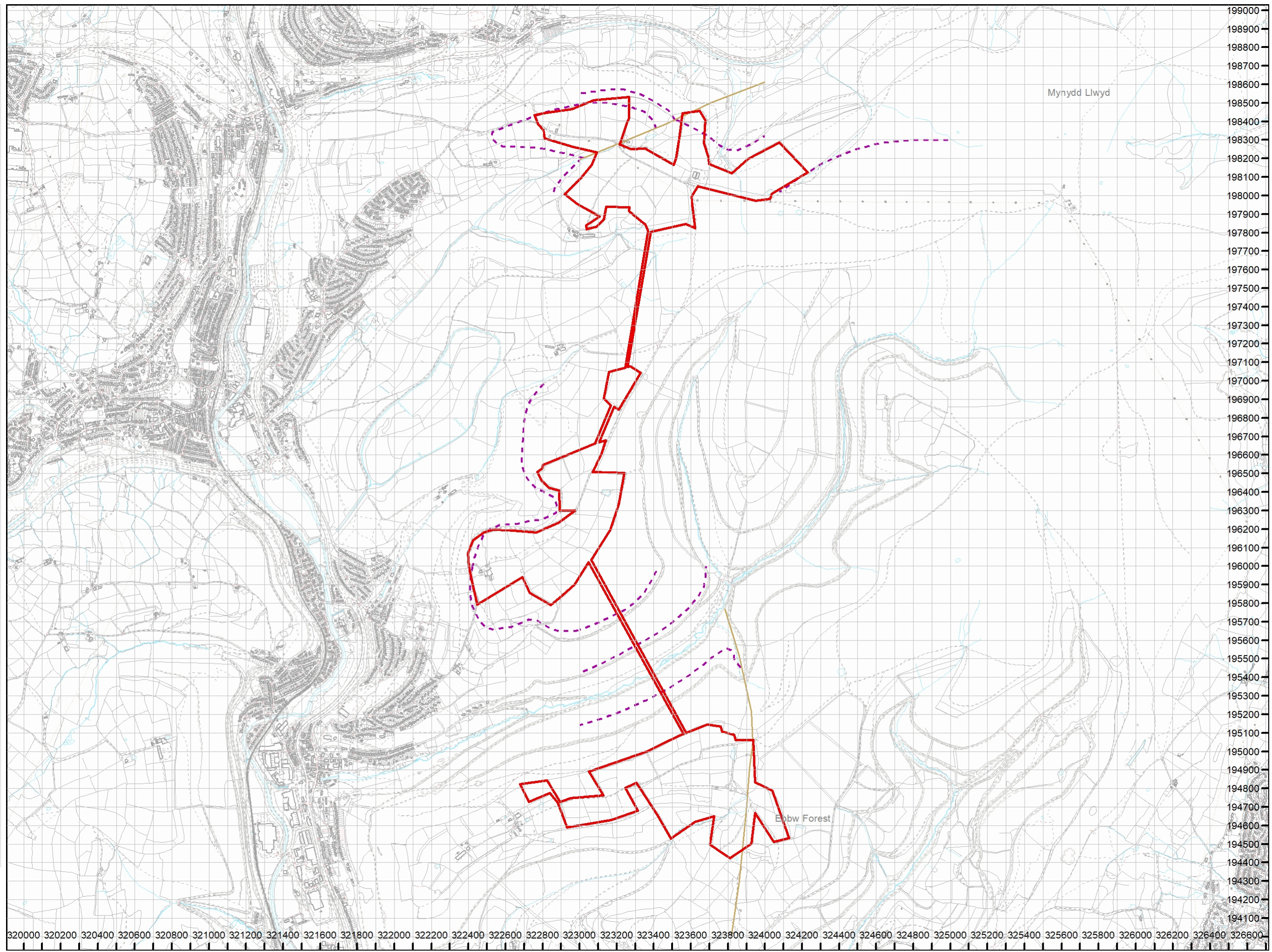
Key

Approximate position of the enquiry boundary shown 

Outcrop (Conjectured) 

Geological faults 

How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com



Annex B

Envirocheck Report and Historical Maps

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

315135944_1_1

Customer Reference:

21584994

National Grid Reference:

323460, 198180

Slice:

A

Site Area (Ha):

46.

Search Buffer (m):

500

Site Details:

Trecelyn North Site

Client Details:

Ms L Gemmell
WSP UK Ltd
Sir Ian Wood House
Hareness Road
Altens Industrial Estate
Aberdeen
AB12 3LE

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	14
Hazardous Substances	-
Geological	15
Industrial Land Use	19
Sensitive Land Use	20
Data Currency	23
Data Suppliers	27
Useful Contacts	28

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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Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Agency & Hydrological				
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 2			2
Prosecutions Relating to Controlled Waters			n/a	n/a
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls	pg 2			1
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 3	Yes		
Pollution Incidents to Controlled Waters				
Prosecutions Relating to Authorised Processes				
Registered Radioactive Substances				
River Quality	pg 3			1
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Substantiated Pollution Incident Register				
Water Abstractions	pg 3		1	(*1)
Water Industry Act Referrals				
Groundwater Vulnerability Map	pg 3	Yes	n/a	n/a
Bedrock Aquifer Designations	pg 4	Yes	n/a	n/a
Superficial Aquifer Designations			n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences				n/a
Flooding from Rivers or Sea without Defences				n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
OS Water Network Lines	pg 5	3	33	44

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Waste				
BGS Recorded Landfill Sites				
Historical Landfill Sites	pg 14			1
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Landfill Coverage	pg 14	1	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 15	Yes	n/a	n/a
BGS Recorded Mineral Sites	pg 15		2	13
CBSCB Compensation District			n/a	n/a
Coal Mining Affected Areas	pg 17	Yes	n/a	n/a
Mining Instability	pg 17	Yes	n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain				n/a
Potential for Collapsible Ground Stability Hazards	pg 17	Yes		n/a
Potential for Compressible Ground Stability Hazards				n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 18	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 18		Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Industrial Land Use				
Contemporary Trade Directory Entries	pg 19		1	2
Fuel Station Entries	pg 19			1
Gas Pipelines				
Underground Electrical Cables				
Sensitive Land Use				
Ancient Woodland	pg 20	4	21	16
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones				
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				
World Heritage Sites				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SE)	0	1	323456 198178
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (SW)	62	1	323200 197800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SE (SW)	73	1	323150 197750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (SW)	73	1	323050 197750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (NE)	113	1	323800 198400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SE (SW)	132	1	323000 197700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (NE)	186	1	323850 198500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (SW)	193	1	322900 197700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (SW)	211	1	322850 197750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (W)	234	1	322700 198100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	240	1	323600 198700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	240	1	323650 198700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	243	1	323700 198700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	280	1	323900 198600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (W)	281	1	322650 198050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SW (SW)	314	1	322700 197800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (W)	331	1	322600 198000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	340	1	323400 198900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	340	1	323600 198800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (NW)	381	1	322450 198650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	385	1	323450 198900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (W)	386	1	322550 197950

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	A9SW (SE)	386	1	324050 197600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (SW)	393	1	322600 197800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	394	1	323550 198850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	404	1	323456 198900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (W)	414	1	322550 197850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A9SW (SE)	423	1	323950 197550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW (W)	445	1	322500 197900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A4NW (SE)	465	1	323900 197450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A4NW (SE)	482	1	323850 197400
1	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Water Supply Grid Location: Pant Newbridge (Pantside) Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Am0007701 Permit Version: 1 Effective Date: 2nd October 1989 Issued Date: 2nd October 1989 Revocation Date: 14th March 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Soakaway Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A11SE (W)	393	2	322400 198300
2	Discharge Consents Operator: Gwent County Council Property Type: Undefined Or Other Location: Hafodyrnys Highways Depot North Of, Highways Depot North Of Swffryd, North Of Swffryd Rd Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Ac0122501 Permit Version: 1 Effective Date: 12th December 1979 Issued Date: 12th December 1979 Revocation Date: 24th February 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Not Supplied Receiving Water: Unspecified Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	491	2	322500 198850
3	Local Authority Pollution Prevention and Controls Name: Hafodyrnys Service Station Location: Pontypool Road, Crumlin, Np11 5ed Authority: Caerphilly County Borough Council, Environmental Health Department Permit Reference: P025 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	438	3	322948 198936

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature	A8NE (SE)	0	-	323610 197995
	River Quality Name: Trosnant Bk GQA Grade: River Quality A Reach: Conf.Afon Lwyd-Former Glyntillery Coll. Estimated Distance (km): 5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A14NE (NE)	456	4	324196 198799
4	Water Abstractions Operator: Unknown Operator Licence Number: 14450000216 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, South West Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Well Daily Rate (m3): 1.80 Yearly Rate (m3): 664.00 Details: Borehole Depth :1 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	A13SE (NE)	13	4	323700 198400
	Water Abstractions Operator: Mr L Harriott Licence Number: 20/56/62/0019 Permit Version: 1 Location: Borehole At The Old Rectory, Crumlin Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Old Rectory, Crumlin Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st July 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11NE (NW)	575	4	322320 198800
	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	A12SE (W)	0	2	323000 198178
	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	A13SW (SE)	0	2	323456 198178

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: <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	A14SW (E)	0	2	324000 198178
	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: <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	A7NE (W)	0	2	323000 198000
	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: <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	A8NW (S)	0	2	323456 198000
	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: <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	A9NW (E)	0	2	324000 198000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (SE)	0	2	323456 198178
	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				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Water Storage Areas None				
	Flood Defences None				
5	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 436.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8NE (SE)	0	5	323636 198039
6	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 548.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13SE (E)	0	5	323762 198231
7	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 241.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13SW (W)	0	5	323177 198260
8	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 449.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 2	A9NE (E)	16	5	324186 198070
9	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13SE (E)	16	5	323742 198179
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (S)	22	5	323355 197824
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 141.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (S)	24	5	323353 197825
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8NW (SW)	66	5	323199 197849

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 125.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SE (S)	75	5	323563 197768
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (SW)	75	5	323214 197830
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (SW)	76	5	323197 197828
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A12SE (W)	79	5	322971 198189
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 2	A8SW (S)	83	5	323460 197741
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (S)	83	5	323460 197741
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 597.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A7NE (W)	93	5	322959 198176
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 173.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Gawni Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (SW)	98	5	323194 197791
21	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: Ebbw Sirhowy Primacy: 1	A8SW (SW)	100	5	323225 197795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13SE (E)	100	5	323785 198284
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 355.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13SE (E)	100	5	323784 198287
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 288.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A7SE (SW)	114	5	323054 197710
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 681.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Gawni Catchment Name: Ebbw Sirhowy Primacy: 1	A7SE (SW)	114	5	323054 197710
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 228.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (SW)	119	5	323225 197795
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (S)	128	5	323426 197690
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (S)	129	5	323413 197688
29	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: Ebbw Sirhowy Primacy: 1	A8SW (S)	133	5	323423 197684
30	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: Ebbw Sirhowy Primacy: 1	A8SW (S)	134	5	323414 197683

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 173.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (S)	144	5	323414 197673
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 218.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 2	A8SW (S)	144	5	323414 197673
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 217.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13SE (NE)	151	5	323818 198487
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 219.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NW (N)	163	5	323491 198593
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NE (NE)	211	5	323778 198633
36	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NE (N)	214	5	323623 198672
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NE (N)	220	5	323630 198678
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NE (N)	239	5	323648 198699
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NE (N)	240	5	323649 198700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NW (N)	249	5	323286 198785
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A14SW (NE)	254	5	323926 198498
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A14NW (NE)	267	5	323868 198628
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A14NW (NE)	268	5	323919 198551
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NE (NE)	271	5	323804 198688
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 198.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NE (NE)	300	5	323736 198754
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 217.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NE (NE)	317	5	323838 198721
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 184.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (S)	331	5	323271 197520
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A8SW (S)	331	5	323271 197520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NE (N)	331	5	323643 198791
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A14NW (NE)	337	5	324055 198627
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 109.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NE (N)	342	5	323660 198802
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A15SW (E)	370	5	324532 198356
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A15SW (E)	370	5	324532 198356
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 2	A18SW (N)	372	5	323299 198907
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A18SW (N)	372	5	323299 198907
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A18SW (N)	373	5	323258 198909
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A3NW (S)	377	5	323414 197440

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 279.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 2	A12NW (NW)	379	5	322777 198827
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 273.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 2	A17SE (NW)	379	5	323036 198914
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A18SW (N)	387	5	323289 198923
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 2	A18SW (N)	387	5	323334 198920
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 2	A18SW (N)	389	5	323334 198920
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A18SW (N)	395	5	323281 198931
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A18SW (N)	395	5	323334 198927
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 246.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A18SE (N)	396	5	323570 198864
66	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: Ebbw Sirhowy Primacy: 1	A14NW (NE)	396	5	324047 198685

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 234.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A18SW (N)	396	5	323269 198932
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A17SE (NW)	397	5	323036 198914
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A14NW (NE)	399	5	324047 198687
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A18SE (N)	412	5	323570 198864
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A15SW (E)	420	5	324560 198400
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A14NW (NE)	427	5	324055 198717
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A14NW (NE)	433	5	324092 198724
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A3NW (S)	434	5	323462 197386
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1037.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Gwyddon-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A9SW (SE)	444	5	324007 197537

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 368.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A14NE (NE)	447	5	324270 198743
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 267.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A18SE (N)	454	5	323636 198913
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A15SW (E)	462	5	324536 198496
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A15SW (E)	468	5	324536 198497
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A15SW (E)	480	5	324567 198481
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A6NE (W)	485	5	322464 197882
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A14NE (NE)	487	5	324180 198773
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A6NE (W)	487	5	322462 197880
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 2	A14NE (NE)	492	5	324180 198773

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	Historical Landfill Sites Licence Holder: Islwyn Borough Council Location: Hafodyrynys Name: Hafodyrynys Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14543 First Input Date: 31st December 1972 Last Input Date: 31st December 1980 Specified Waste: Deposited Waste included Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6920/0001 BGS Ref: Not Supplied Other Ref: Not Supplied	A12NW (NW)	320	2	322591 198710
	Local Authority Landfill Coverage Name: Caerphilly County Borough Council - Has supplied landfill data		0	3	323456 198178
	Local Authority Landfill Coverage Name: Torfaen County Borough Council - Has supplied landfill data		316	6	323718 198778

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: South Wales Upper Coal Measures Formation	A13SW (SE)	0	1	323456 198178
86	BGS Recorded Mineral Sites Site Name: Pen-Y-Caeau Location: Crumlin, Newbridge, Caerphilly Source: British Geological Survey, National Geoscience Information Service Reference: 175800 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hughes Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13SW (N)	6	1	323464 198206
87	BGS Recorded Mineral Sites Site Name: Coedcae-Hen Drift Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137993 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Glas Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	222	1	323758 198658
88	BGS Recorded Mineral Sites Site Name: Hafodyrynys Drift Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137995 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Glas Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	311	1	324081 198602
88	BGS Recorded Mineral Sites Site Name: Hafodyrynys Drift Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137994 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Glas Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	327	1	324051 198616
89	BGS Recorded Mineral Sites Site Name: Coed Watkin Dafydd Location: Crumlin, Newbridge, Caerphilly Source: British Geological Survey, National Geoscience Information Service Reference: 175805 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hughes Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	321	1	324405 198422

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	BGS Recorded Mineral Sites Site Name: Hafodyrynys Drift Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137989 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Glas Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	382	1	323792 198818
91	BGS Recorded Mineral Sites Site Name: Hafodyrynys Colliery West Shaft Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137984 Type: Underground Status: Ceased Operator: Ncb South-Western Division Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Brithdir Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	406	1	324094 198697
91	BGS Recorded Mineral Sites Site Name: Hafodyrynys Colliery West Shaft Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137984 Type: Underground Status: Ceased Operator: Ncb South-Western Division Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	406	1	324094 198697
91	BGS Recorded Mineral Sites Site Name: Hafodyrynys Colliery East Shaft Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137985 Type: Underground Status: Ceased Operator: Ncb South-Western Division Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Brithdir Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	423	1	324130 198712
91	BGS Recorded Mineral Sites Site Name: Hafodyrynys Colliery East Shaft Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137985 Type: Underground Status: Ceased Operator: Ncb South-Western Division Operator Location: Not Supplied Periodic Type: Carboniferous Geology: South Wales Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	423	1	324130 198712
92	BGS Recorded Mineral Sites Site Name: Hafodyrynys Drift Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137988 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Glas Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	454	1	323674 198914

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	BGS Recorded Mineral Sites Site Name: Coedcae Watkin Dayydd Drift Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137996 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hughes Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	473	1	324508 198533
94	BGS Recorded Mineral Sites Site Name: Hafodyrynys Drift Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137990 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Glas Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	475	1	323988 198802
95	BGS Recorded Mineral Sites Site Name: Hafodyrynys New Mine Nos 1 & 2 Drift Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137986 Type: Underground Status: Ceased Operator: Ncb South-Western Division Operator Location: Not Supplied Periodic Type: Carboniferous Geology: No. 2 Rhondda Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (NE)	490	1	324225 198761
95	BGS Recorded Mineral Sites Site Name: Hafodyrynys New Mine Nos 1 & 2 Drift Location: Hafodyrynys, Newbridge, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 137986 Type: Underground Status: Ceased Operator: Ncb South-Western Division Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Brithdir Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (NE)	490	1	324225 198761
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (SE)	0	7	323456 198178
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (SE)	0	-	323456 198178
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	323456 198178
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	103	1	323477 198615
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	323456 198178
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	323456 198178

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	323456 198178
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	64	1	323285 198621
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	103	1	323477 198615
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	154	1	323280 198690
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	156	1	323713 198606
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	161	1	323248 198695
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12NW (NW)	192	1	322744 198703
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	203	1	323608 198659
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A14SW (NE)	213	1	323903 198481
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12NE (NW)	223	1	322851 198690
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	323456 198178
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	103	1	323477 198615
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	323456 198178
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (SE)	0	1	323456 198178
	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	A13SW (SE)	0	1	323456 198178

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	Contemporary Trade Directory Entries Name: Hallets Cider Location: Blaengawney Farm, Crumlin, Newport, NP11 5AY Classification: Cider Makers Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	82	-	322969 197805
97	Contemporary Trade Directory Entries Name: Petrol Express Location: Pontypool Rd, Hafodyrynys/Crumlin, Newport, Gwent, NP11 5BD Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SW (NW)	434	-	322771 198882
98	Contemporary Trade Directory Entries Name: E J Goff Location: 5, Herbert Street, Crumlin, Newport, Gwent, NP11 5BD Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	455	-	322817 198910
99	Fuel Station Entries Name: Hafodyrynys Service Station Location: Pontypool Road, Hafodyrynys Crumlin, Newport, Caerphilly, NP11 5ED Brand: Texaco Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	435	-	322949 198934

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	Ancient Woodland Name: Not Supplied Reference: 41231 Area(m²): 70457.74 Type: Plantation on Ancient Woodland	A13SW (N)	0	2	323434 198469
101	Ancient Woodland Name: Not Supplied Reference: 47988 Area(m²): 5471.75 Type: Plantation on Ancient Woodland	A13SE (N)	0	2	323545 198445
102	Ancient Woodland Name: Not Supplied Reference: 42644 Area(m²): 154051.13 Type: Plantation on Ancient Woodland	A8NE (E)	0	2	323839 198157
103	Ancient Woodland Name: Not Supplied Reference: 42644 Area(m²): 15686.49 Type: Plantation on Ancient Woodland	A13SE (NE)	0	2	323691 198387
104	Ancient Woodland Name: Not Supplied Reference: 40260 Area(m²): 19427.61 Type: Plantation on Ancient Woodland	A13SE (NE)	10	2	323634 198467
105	Ancient Woodland Name: Not Supplied Reference: 40260 Area(m²): 19599.59 Type: Plantation on Ancient Woodland	A13SW (N)	19	2	323492 198434
106	Ancient Woodland Name: Not Supplied Reference: 48735 Area(m²): 23745.13 Type: Plantation on Ancient Woodland	A13SE (E)	19	2	323772 198252
107	Ancient Woodland Name: Not Supplied Reference: 47988 Area(m²): 24276.94 Type: Plantation on Ancient Woodland	A13SE (NE)	41	2	323601 198512
108	Ancient Woodland Name: Not Supplied Reference: 9048 Area(m²): 17657.5 Type: Ancient and Semi-Natural Woodland	A7NE (W)	50	2	323009 198172
109	Ancient Woodland Name: Not Supplied Reference: 48298 Area(m²): 14195.72 Type: Plantation on Ancient Woodland	A12NE (NW)	57	2	323076 198626
110	Ancient Woodland Name: Not Supplied Reference: 21633 Area(m²): 899.25 Type: Restored Ancient Woodland Site	A13SE (E)	68	2	323768 198250
111	Ancient Woodland Name: Not Supplied Reference: 40261 Area(m²): 75551 Type: Plantation on Ancient Woodland	A12NE (NW)	90	2	323019 198738
112	Ancient Woodland Name: Not Supplied Reference: 40260 Area(m²): 11431.76 Type: Plantation on Ancient Woodland	A13NE (N)	105	2	323546 198552
113	Ancient Woodland Name: Not Supplied Reference: 9047 Area(m²): 19648.05 Type: Ancient and Semi-Natural Woodland	A7SE (SW)	109	2	323100 197724

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	Ancient Woodland Name: Not Supplied Reference: 39853 Area(m²): 16928.24 Type: Plantation on Ancient Woodland	A7NW (W)	129	2	322801 198011
115	Ancient Woodland Name: Not Supplied Reference: 39852 Area(m²): 1153.72 Type: Plantation on Ancient Woodland	A7SE (SW)	130	2	323013 197698
116	Ancient Woodland Name: Not Supplied Reference: 40258 Area(m²): 230567.64 Type: Plantation on Ancient Woodland	A7SE (SW)	136	2	322930 197756
117	Ancient Woodland Name: Not Supplied Reference: 50075 Area(m²): 2081.86 Type: Plantation on Ancient Woodland	A14SW (NE)	170	2	323841 198484
118	Ancient Woodland Name: Not Supplied Reference: 47989 Area(m²): 4405.4 Type: Restored Ancient Woodland Site	A12NE (NW)	178	2	323029 198703
119	Ancient Woodland Name: Not Supplied Reference: 39577 Area(m²): 4425.07 Type: Plantation on Ancient Woodland	A13NE (N)	209	2	323536 198686
120	Ancient Woodland Name: Not Supplied Reference: 10478 Area(m²): 1244.26 Type: Restored Ancient Woodland Site	A13NE (N)	211	2	323556 198660
121	Ancient Woodland Name: Not Supplied Reference: 14580 Area(m²): 66064.8 Type: Ancient and Semi-Natural Woodland	A12NW (NW)	216	2	322760 198775
122	Ancient Woodland Name: Not Supplied Reference: 9048 Area(m²): 14069.96 Type: Ancient and Semi-Natural Woodland	A7NW (W)	218	2	322725 198108
123	Ancient Woodland Name: Not Supplied Reference: 7906 Area(m²): 7634.42 Type: Ancient and Semi-Natural Woodland	A13NE (N)	230	2	323534 198676
124	Ancient Woodland Name: Not Supplied Reference: 41232 Area(m²): 30615.59 Type: Plantation on Ancient Woodland	A12NW (NW)	246	2	322584 198608
125	Ancient Woodland Name: Not Supplied Reference: 14581 Area(m²): 55562.66 Type: Ancient and Semi-Natural Woodland	A14SW (NE)	254	2	323925 198503
126	Ancient Woodland Name: Not Supplied Reference: 39577 Area(m²): 19555.41 Type: Plantation on Ancient Woodland	A13NE (N)	266	2	323612 198722
127	Ancient Woodland Name: Not Supplied Reference: 21636 Area(m²): 84269.93 Type: Ancient and Semi-Natural Woodland	A13NE (NE)	329	2	323740 198782

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
128	Ancient Woodland Name: Not Supplied Reference: 10476 Area(m²): 6.55 Type: Restored Ancient Woodland Site	A7NW (W)	330	2	322601 197999
129	Ancient Woodland Name: Not Supplied Reference: 21627 Area(m²): 8628.83 Type: Restored Ancient Woodland Site	A7NW (W)	330	2	322601 198000
130	Ancient Woodland Name: Not Supplied Reference: 42641 Area(m²): 4.02 Type: Plantation on Ancient Woodland	A7NW (W)	337	2	322594 197994
131	Ancient Woodland Name: Not Supplied Reference: 10476 Area(m²): 11.69 Type: Restored Ancient Woodland Site	A7NW (W)	346	2	322585 197988
132	Ancient Woodland Name: Not Supplied Reference: 42641 Area(m²): 1176.67 Type: Plantation on Ancient Woodland	A7NW (W)	360	2	322573 197979
133	Ancient Woodland Name: Not Supplied Reference: 41233 Area(m²): 3574.27 Type: Plantation on Ancient Woodland	A13NE (N)	362	2	323679 198822
134	Ancient Woodland Name: Not Supplied Reference: 41226 Area(m²): 14413.26 Type: Plantation on Ancient Woodland	A7NW (W)	412	2	322525 197944
135	Ancient Woodland Name: Not Supplied Reference: 14583 Area(m²): 75637.47 Type: Ancient and Semi-Natural Woodland	A18SE (N)	419	2	323615 198879
136	Ancient Woodland Name: Not Supplied Reference: 14556 Area(m²): 17144.91 Type: Ancient and Semi-Natural Woodland	A7NW (W)	426	2	322507 197969
137	Ancient Woodland Name: Not Supplied Reference: 42645 Area(m²): 13140.2 Type: Plantation on Ancient Woodland	A17SE (NW)	440	2	323092 198962
138	Ancient Woodland Name: Not Supplied Reference: 40257 Area(m²): 303509.9 Type: Plantation on Ancient Woodland	A9SW (SE)	456	2	323978 197523
139	Ancient Woodland Name: Not Supplied Reference: 39851 Area(m²): 1203592.67 Type: Plantation on Ancient Woodland	A9SW (SE)	457	2	323988 197523
140	Ancient Woodland Name: Not Supplied Reference: 10476 Area(m²): 3769.46 Type: Restored Ancient Woodland Site	A7SW (SW)	486	2	322607 197619

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Blaenau Gwent County Borough Council - Environmental Health Department Natural Resources Wales Torfaen County Borough Council - Department for the Environmental Caerphilly County Borough Council - Environmental Health Department	January 2020 June 2020 October 2017 September 2017	Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 May 2023	Quarterly 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 Natural Resources Wales	January 2021 May 2023	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Torfaen County Borough Council - Department for the Environmental Blaenau Gwent County Borough Council - Environmental Health Department Caerphilly County Borough Council - Environmental Health Department	December 2015 June 2014 September 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Blaenau Gwent County Borough Council - Environmental Health Department Torfaen County Borough Council - Department for the Environmental Caerphilly County Borough Council - Environmental Health Department	June 2014 November 2015 September 2014	Annual Rolling Update Annual Rolling Update Not Applicable
Local Authority Pollution Prevention and Control Enforcements Torfaen County Borough Council - Department for the Environmental Blaenau Gwent County Borough Council - Environmental Health Department Caerphilly County Borough Council - Environmental Health Department	December 2015 June 2014 September 2014	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	May 2023	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	July 2015 July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
Substantiated Pollution Incident Register Natural Resources Wales Environment Agency Wales - South East Area	April 2023 January 2021	Quarterly Quarterly
Water Abstractions Environment Agency - South West Region Environment Agency - Welsh Region Natural Resources Wales	April 2023 April 2023 June 2023	Quarterly Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2022	

Agency & Hydrological	Version	Update Cycle
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	
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	April 2023	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	March 2023	As notified
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South East Area Natural Resources Wales	January 2023 October 2021	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	July 2021 May 2023	Quarterly Quarterly
Local Authority Landfill Coverage Blaenau Gwent County Borough Council - Environmental Health Department Caerphilly County Borough Council - Environmental Health Department Torfaen County Borough Council - Department for the Environmental	February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Blaenau Gwent County Borough Council - Environmental Health Department Caerphilly County Borough Council - Environmental Health Department Torfaen County Borough Council - Department for the Environmental	October 2018 October 2018 October 2018	
Registered Landfill Sites Environment Agency Wales - South East Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Blaenau Gwent County Borough Council - Planning Department Caerphilly County Borough Council - Planning Department Torfaen County Borough Council - Planning Department	January 2023 January 2023 June 2023	Variable Variable Variable
Planning Hazardous Substance Consents Blaenau Gwent County Borough Council - Planning Department Torfaen County Borough Council - Planning Department Caerphilly County Borough Council - Planning Department	February 2016 February 2016 January 2023	Variable Variable 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	June 2023	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually

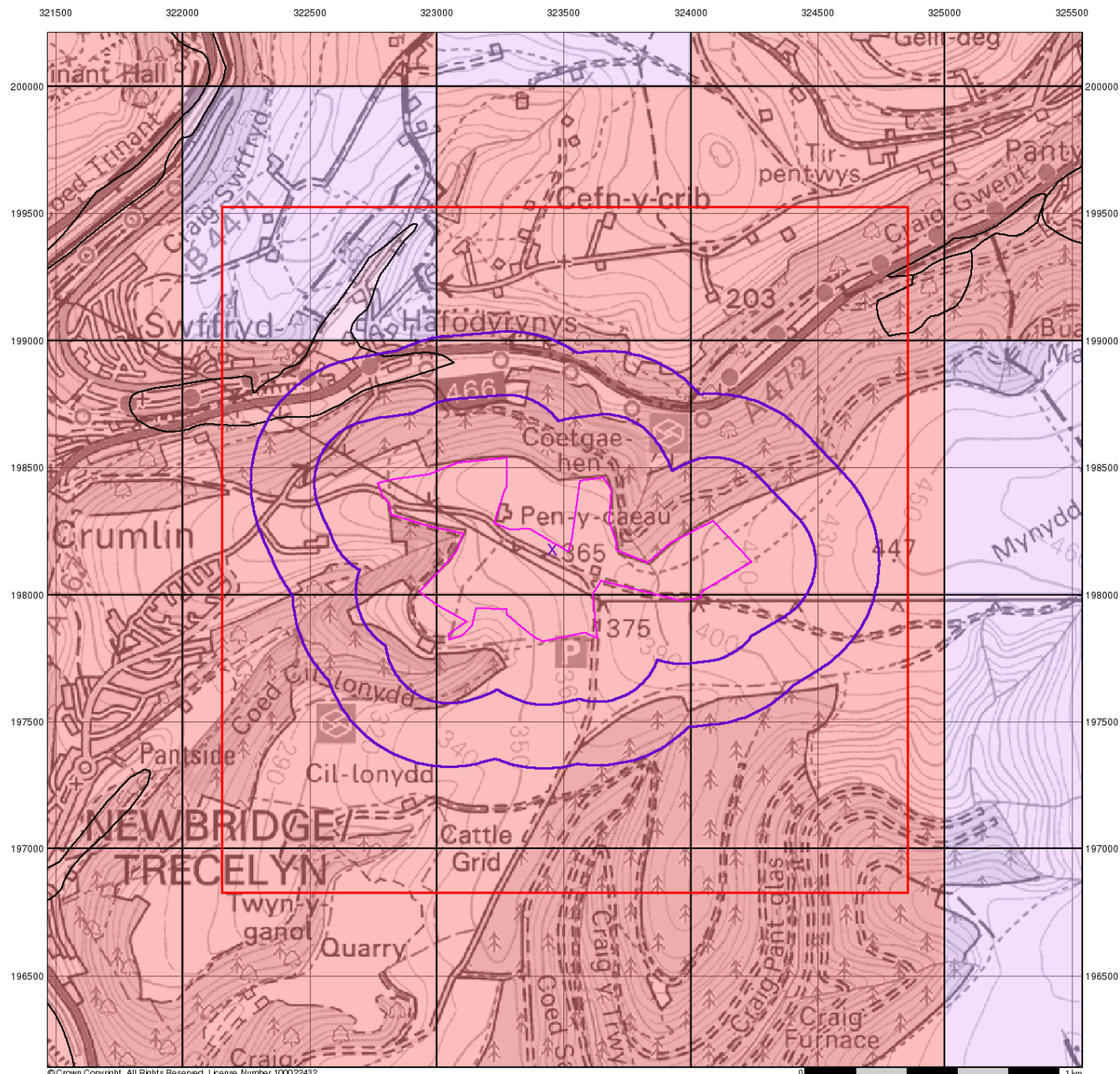
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	July 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	June 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	February 2023	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	April 2023	Bi-Annually
Areas of Adopted Green Belt Blaenau Gwent County Borough Council - Municipal Offices Caerphilly County Borough Council Torfaen County Borough Council	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Blaenau Gwent County Borough Council - Municipal Offices Caerphilly County Borough Council Torfaen County Borough Council	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	April 2023	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Blaenau Gwent County Borough Council - Municipal Offices Caerphilly County Borough Council Torfaen County Borough Council	March 2023 March 2023 March 2023	Bi-Annually Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	April 2023	Bi-Annually
National Nature Reserves Natural Resources Wales	February 2023	Bi-Annually
National Parks Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 March 2023	Bi-Annually
Ramsar Sites Natural Resources Wales	March 2023	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2023	Bi-Annually
Special Areas of Conservation Natural Resources Wales	April 2023	Bi-Annually
Special Protection Areas Natural Resources Wales	April 2023	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	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
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	Caerphilly County Borough Council - Environmental Health Department Pontllanfraith, Blackwood, NP12 2YW	Telephone: 01443 815588 Fax: 01443 864307 Website: www.caerphilly.gov.uk
4	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Torfaen County Borough Council - Department for the Environmental County Hall, Cwmbran, Torfaen, NP44 2WN	Telephone: 01633 648606 Fax: 01495 755513 Website: www.torfaen.gov.uk
7	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
8	Torfaen County Borough Council Civic Offices, Pontypool, Gwent, NP4 6YB	Telephone: 01495 762200 Fax: 01495 755513 Website: www.torfaen.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.



wood.

Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

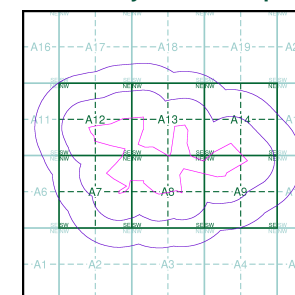
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

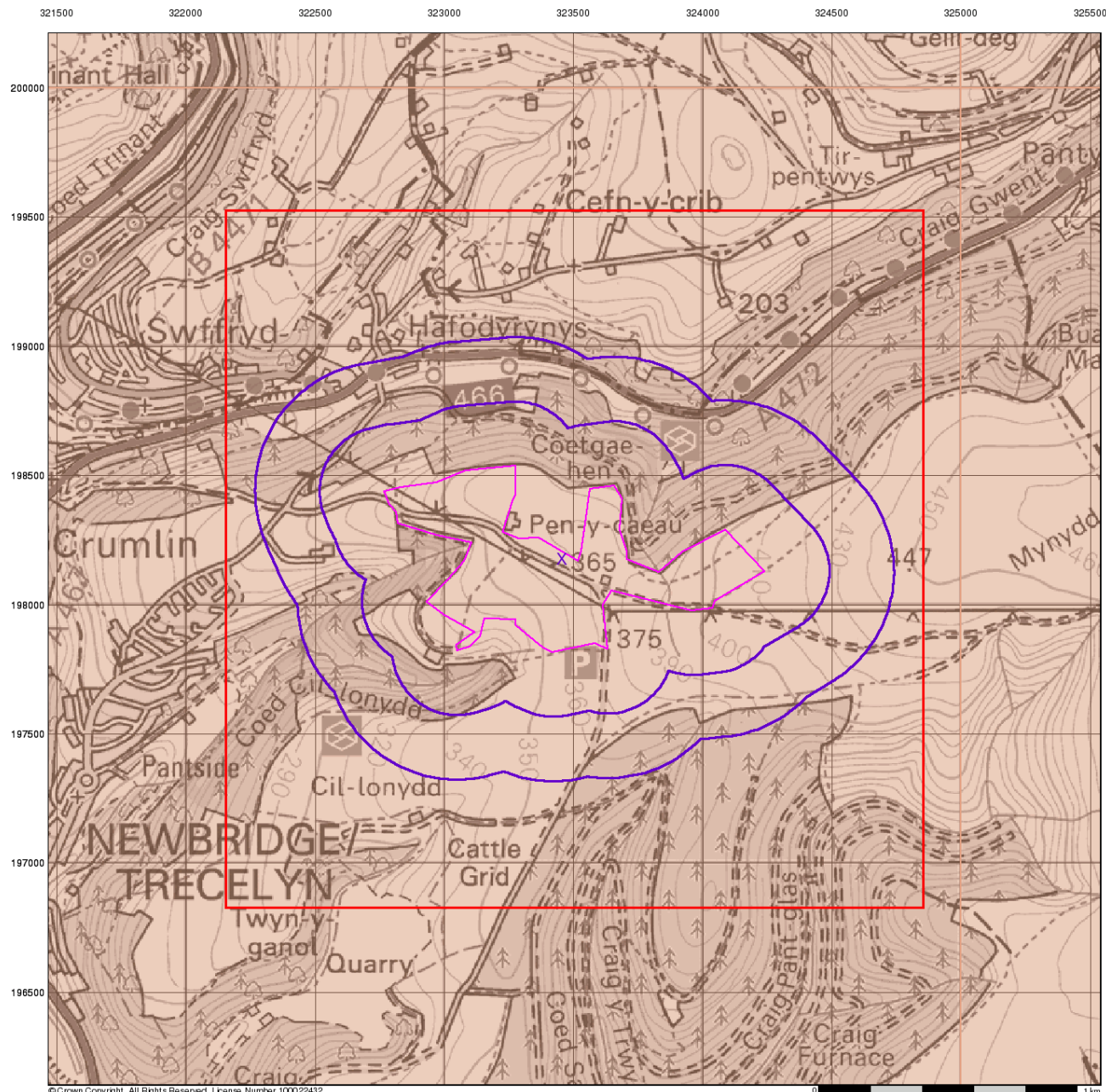
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 Customer Ref: 21584994
 National Grid Reference: 323460, 198180
 Slice: A
 Site Area (Ha): 46.
 Search Buffer (m): 500

Site Details

Trecelyn North Site

Landmark
 INFORMATION GROUP

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 Fax: 0844 844 9951
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0 1 km

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Bedrock Aquifer Designation

General

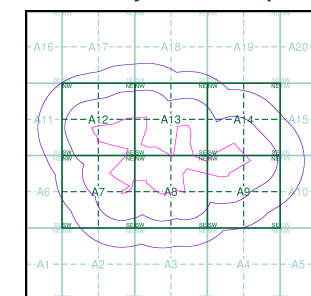
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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



Order Details

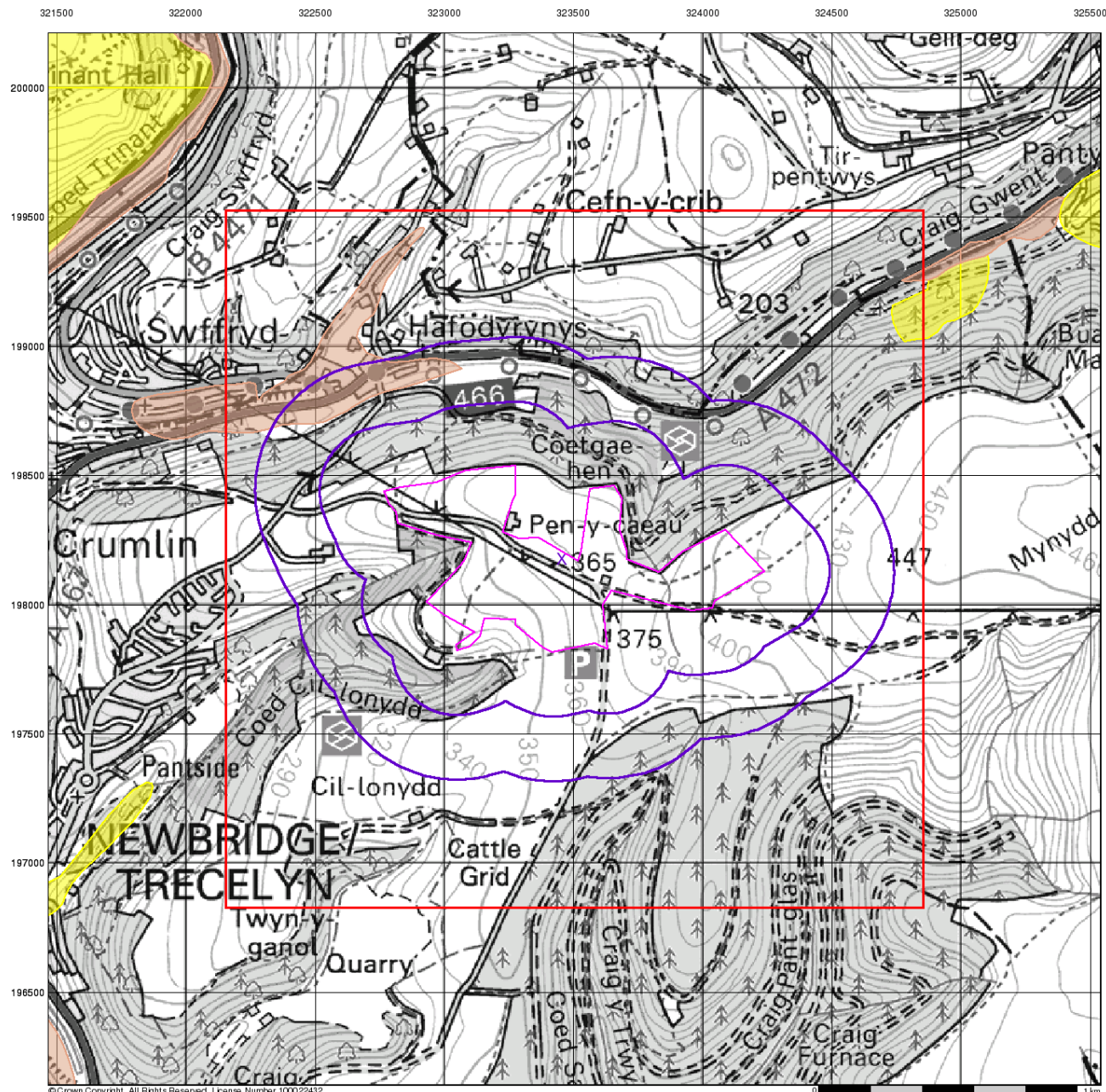
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 Customer Ref: 21584994
 National Grid Reference: 323460, 198180
 Slice: A
 Site Area (Ha): 46.
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Superficial Aquifer Designation

General

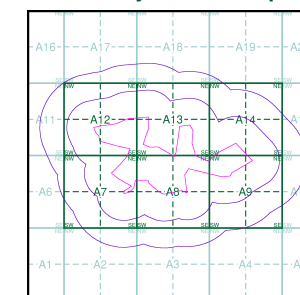
- ◊ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- B Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

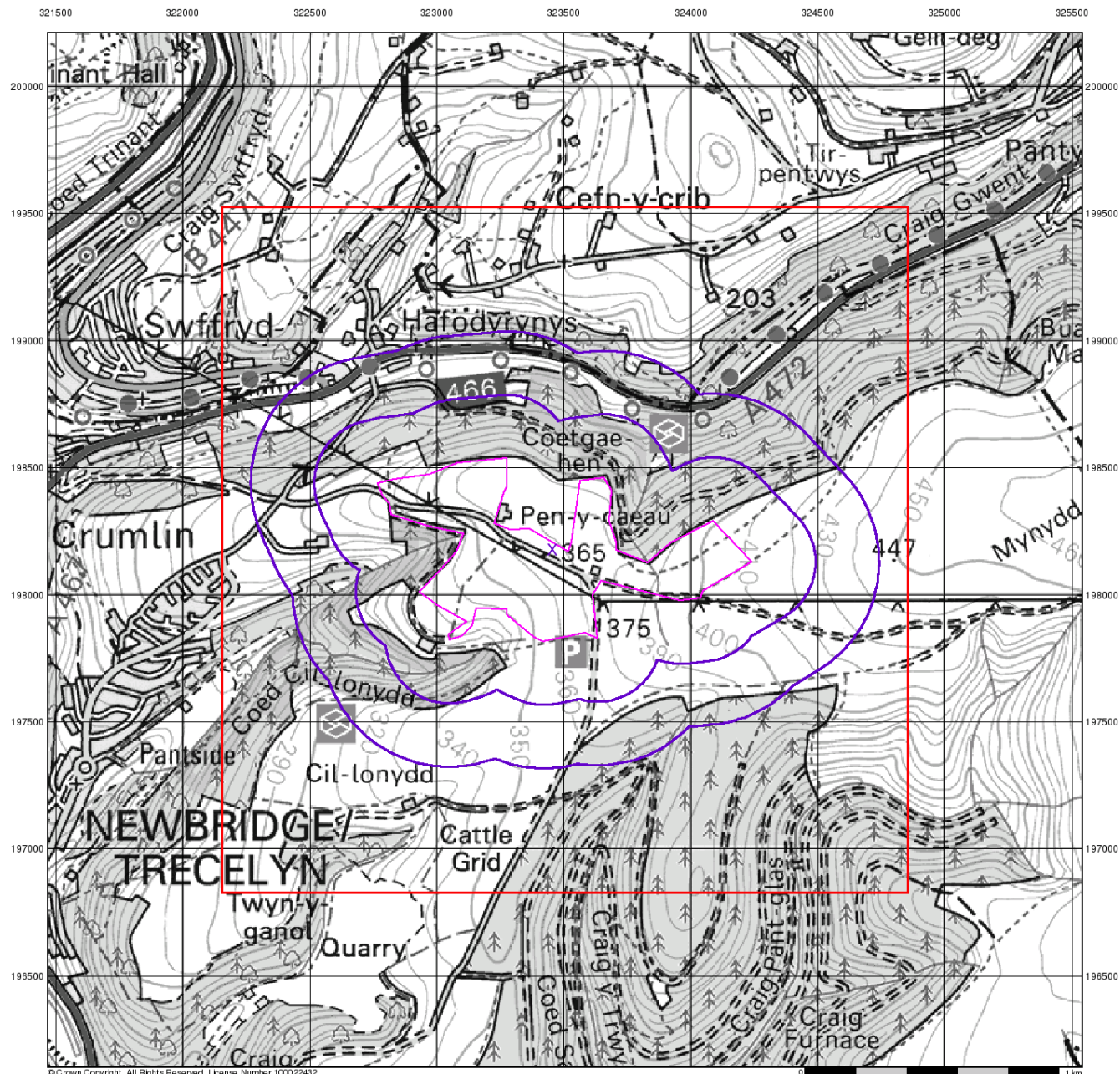
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 Customer Ref: 21584994
 National Grid Reference: 323460, 198180
 Slice: A
 Site Area (Ha): 46.
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Source Protection Zones

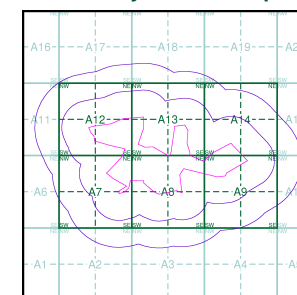
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

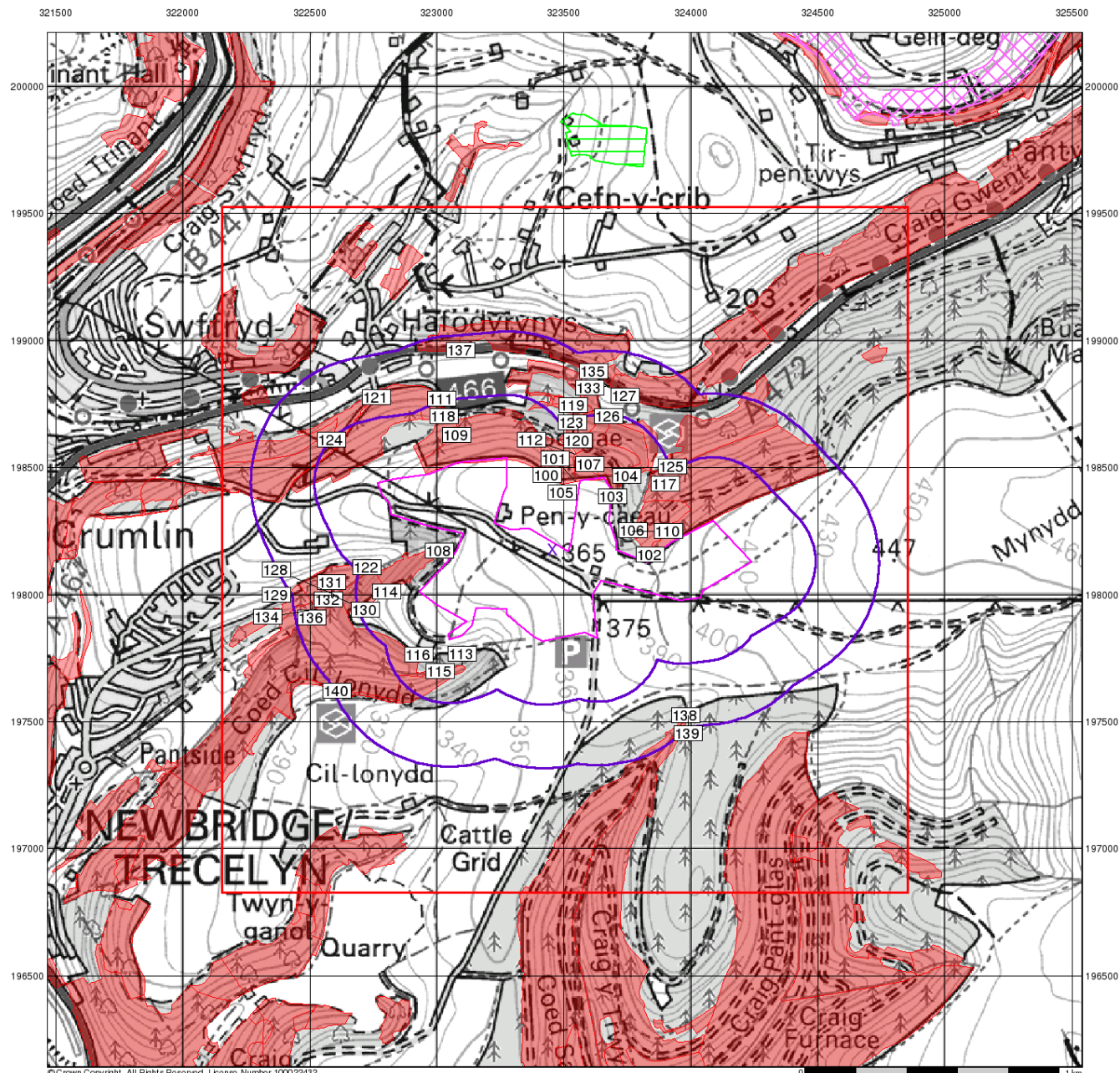
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 Customer Ref: 21584994
 National Grid Reference: 323460, 198180
 Slice: A
 Site Area (Ha): 46.
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Sensitive Land Uses

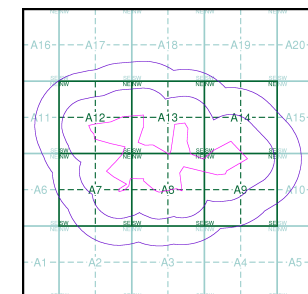
General

- 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

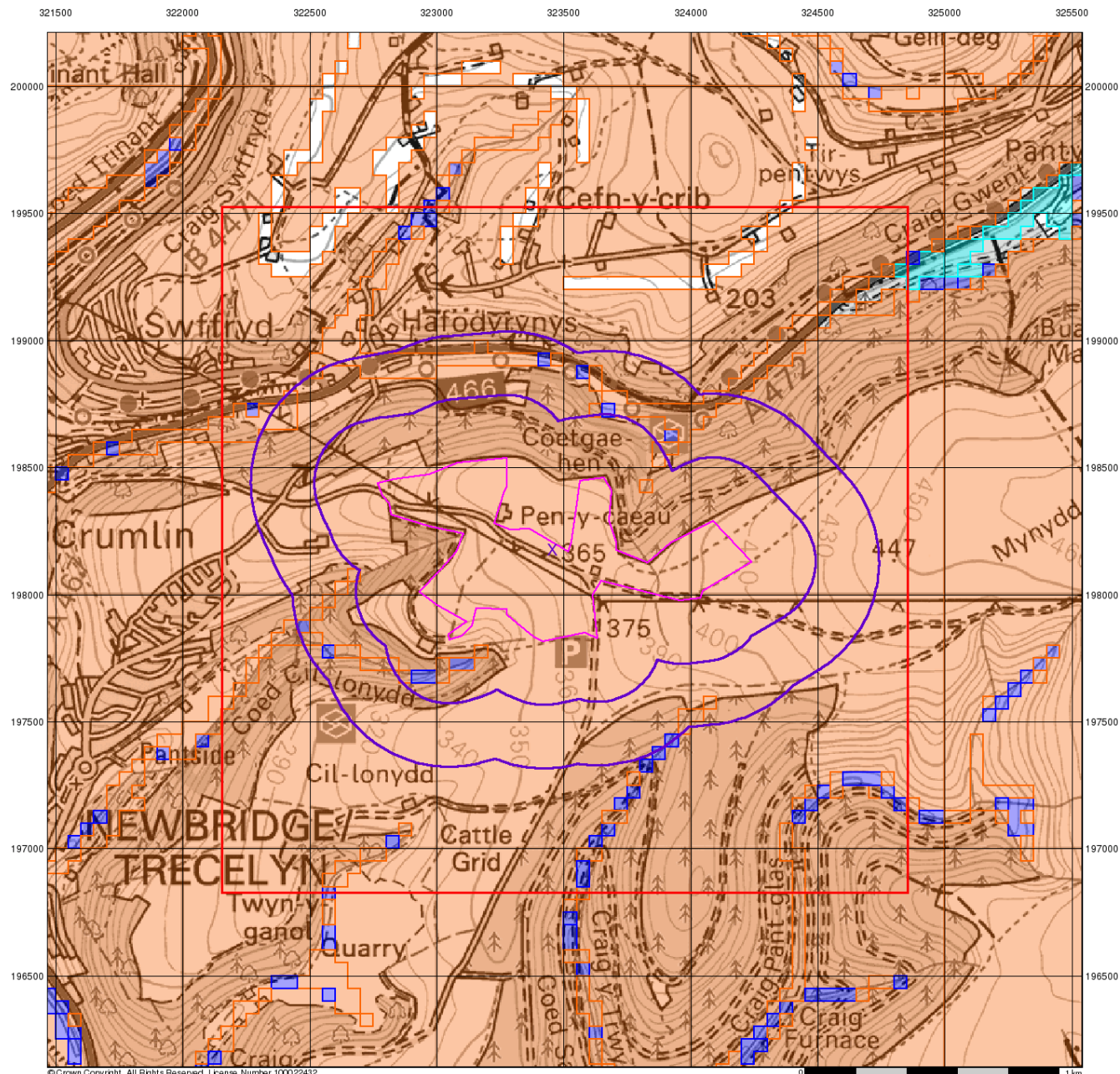
Order Number: 315135944_1_1
 Customer Ref: 21584994
 National Grid Reference: 323460, 198180
 Slice: A
 Site Area (Ha): 46.
 Search Buffer (m): 500

Site Details

Trecelyn North Site

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BGS Flood GFS Data

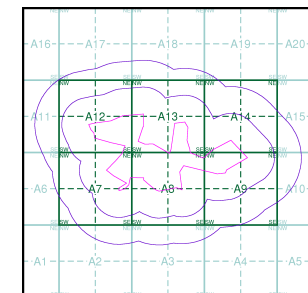
General

- 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: 315135944_1_1
 Customer Ref: 21584994
 National Grid Reference: 323460, 198180
 Slice: A
 Site Area (Ha): 46.
 Search Buffer (m): 500

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	•285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	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				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	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
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		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
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

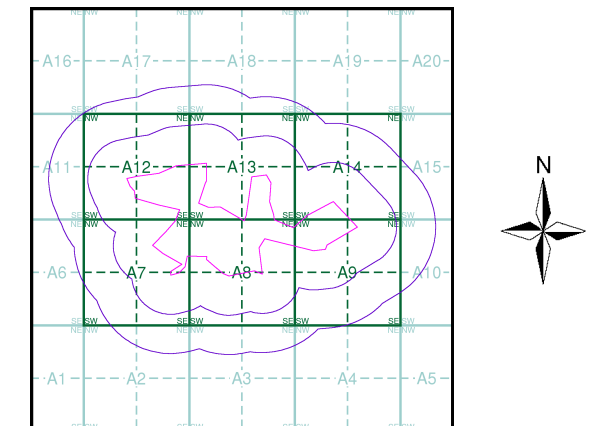
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	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

wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1886	2
Monmouthshire	1:10,560	1901 - 1902	3
Monmouthshire	1:10,560	1922	4
Monmouthshire	1:10,560	1938 - 1953	5
Monmouthshire	1:10,560	1938 - 1953	6
Monmouthshire	1:10,560	1953	7
Ordnance Survey Plan	1:10,000	1965	8
Ordnance Survey Plan	1:10,000	1983	9
Ordnance Survey Plan	1:10,000	1990	10
10K Raster Mapping	1:10,000	1999	11
Street View	Variable		12

Historical Map - Slice A



Order Details

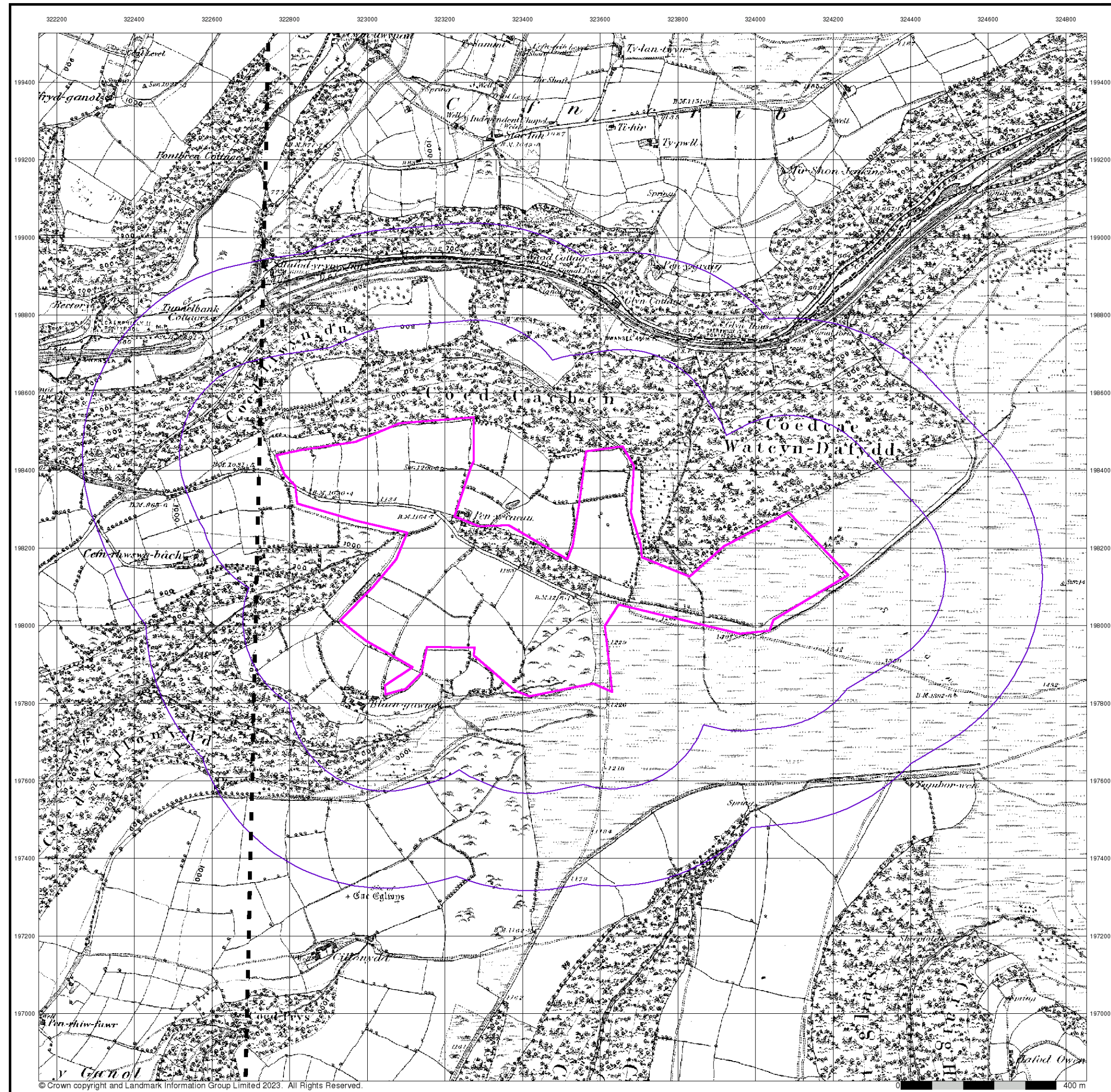
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 500

Site Details

Trecelyn North Site

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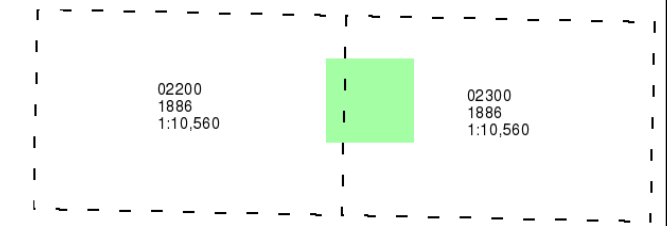
Monmouthshire

Published 1886

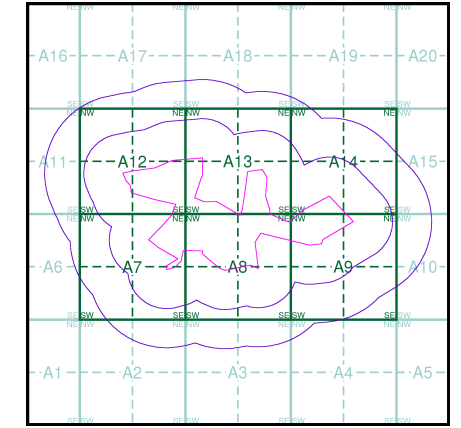
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

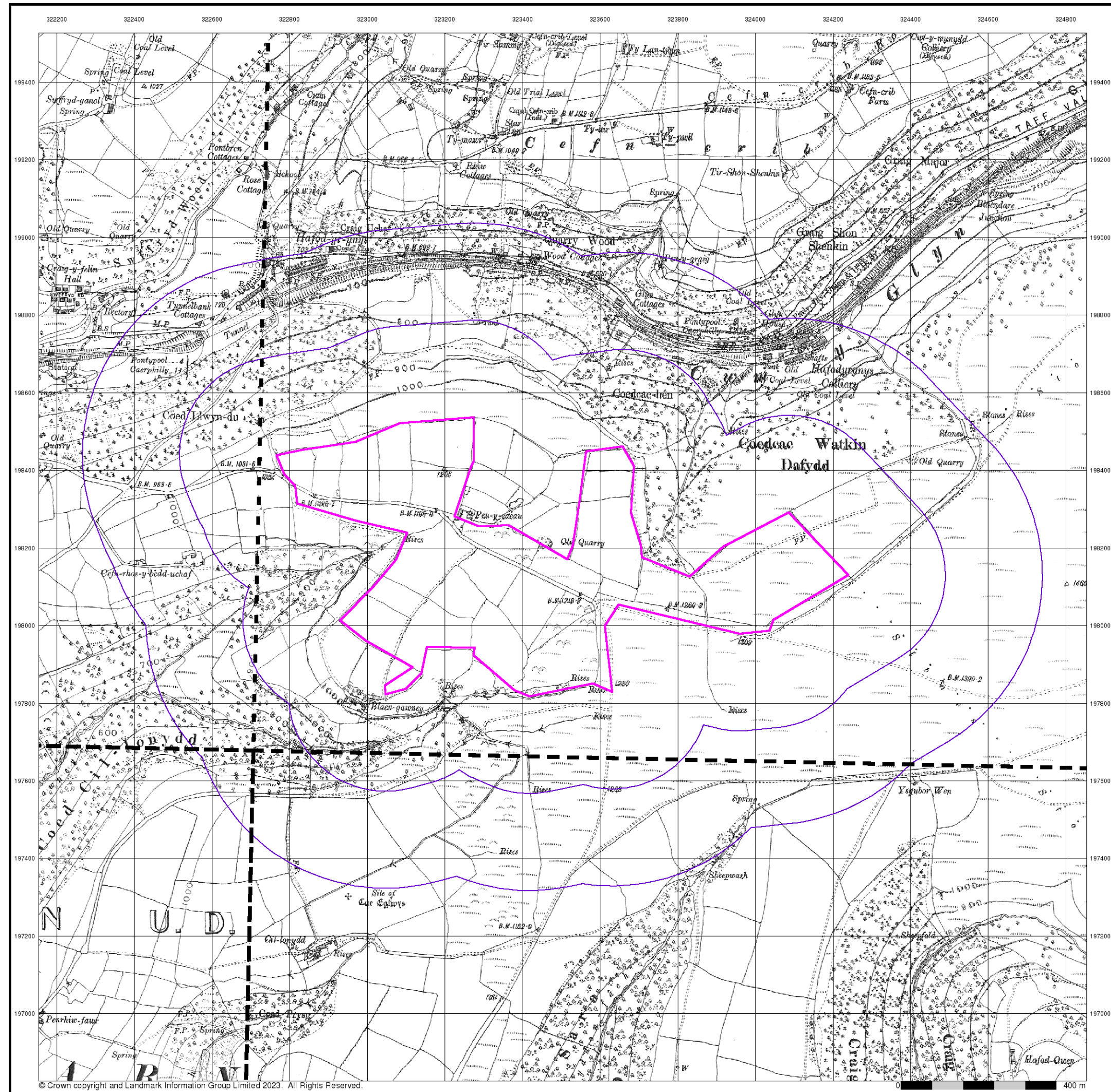
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 500

Site Details

Trecelyn North Site

Landmark
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wood.

Monmouthshire

Published 1922

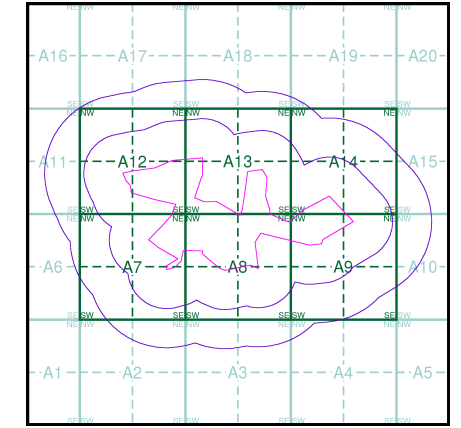
Source map scale - 1:10,560

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)

022NE 1922 1:10,560	023NW 1922 1:10,560
022SE 1922 1:10,560	023SW 1922 1:10,560

Historical Map - Slice A



Order Details

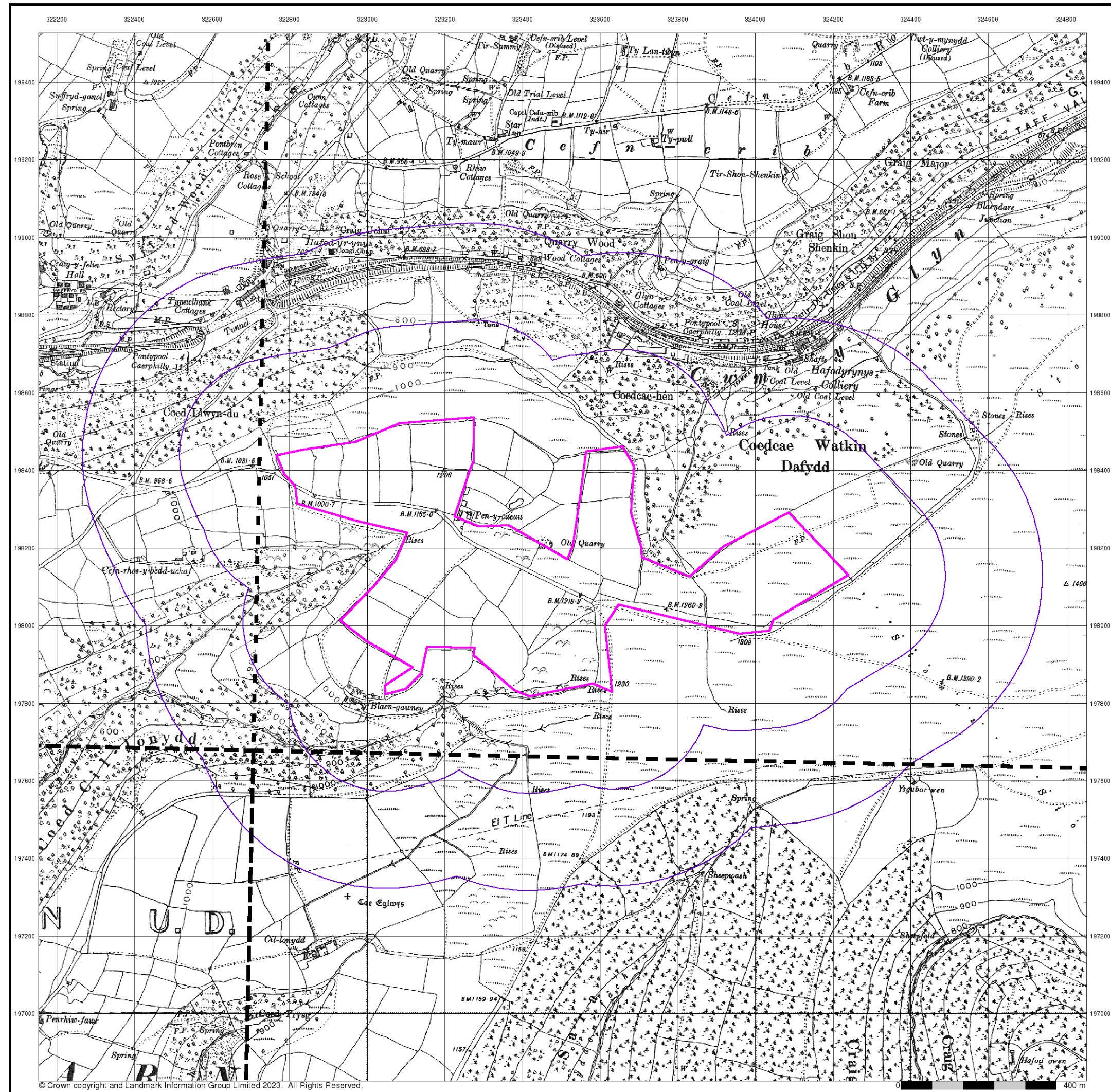
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 500

Site Details

Trecelyn North Site

Landmark
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wood.

Monmouthshire

Published 1938 - 1953

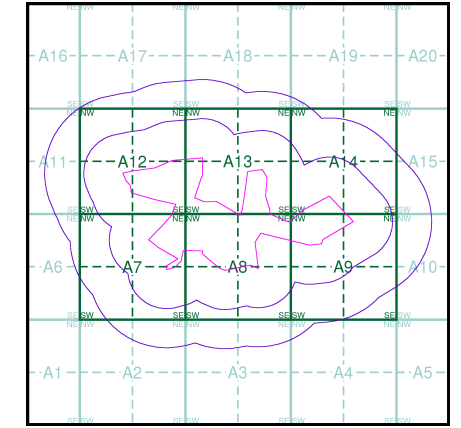
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

022NE 1938 1:10,560	023NW 1938 1:10,560
022SE 1938 1:10,560	023SW 1953 1:10,560

Historical Map - Slice A



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 500

Site Details

Trecelyn North Site

Landmark
INFORMATION GROUP

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Web: www.envirocheck.co.uk

wood.

Monmouthshire

Published 1938 - 1953

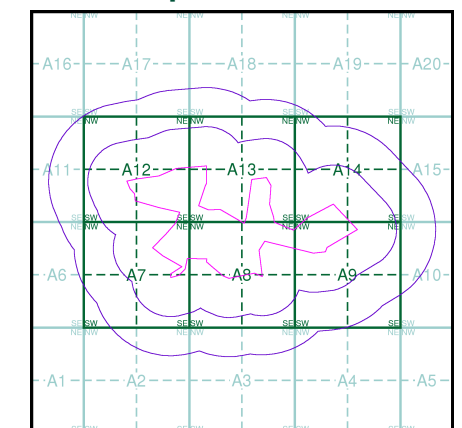
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

022NE 1938 1:10,560	023NW 1953 1:10,560
022SE 1938 1:10,560	

Historical Map - Slice A



Order Details

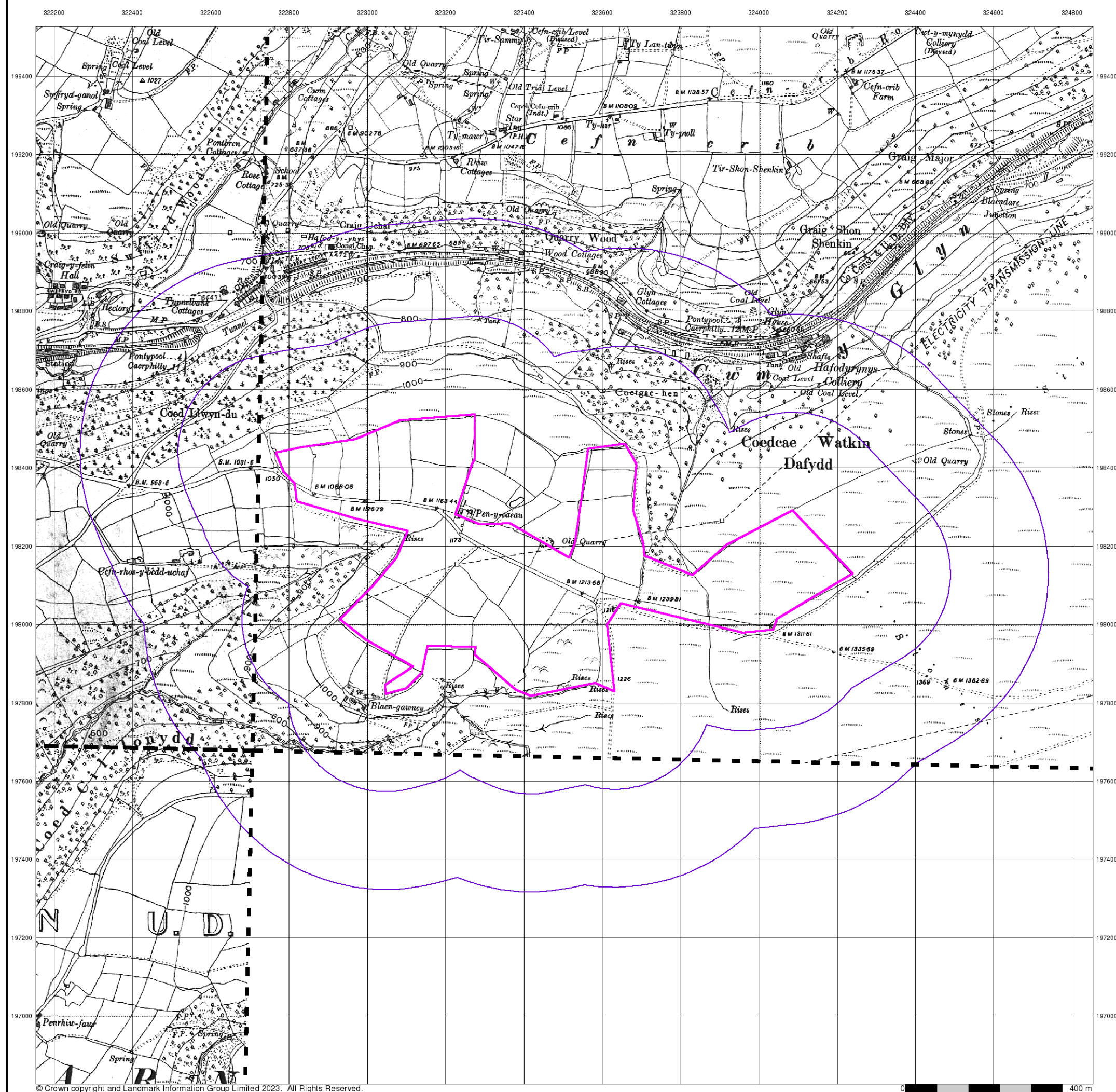
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Search Buffer (m): 500

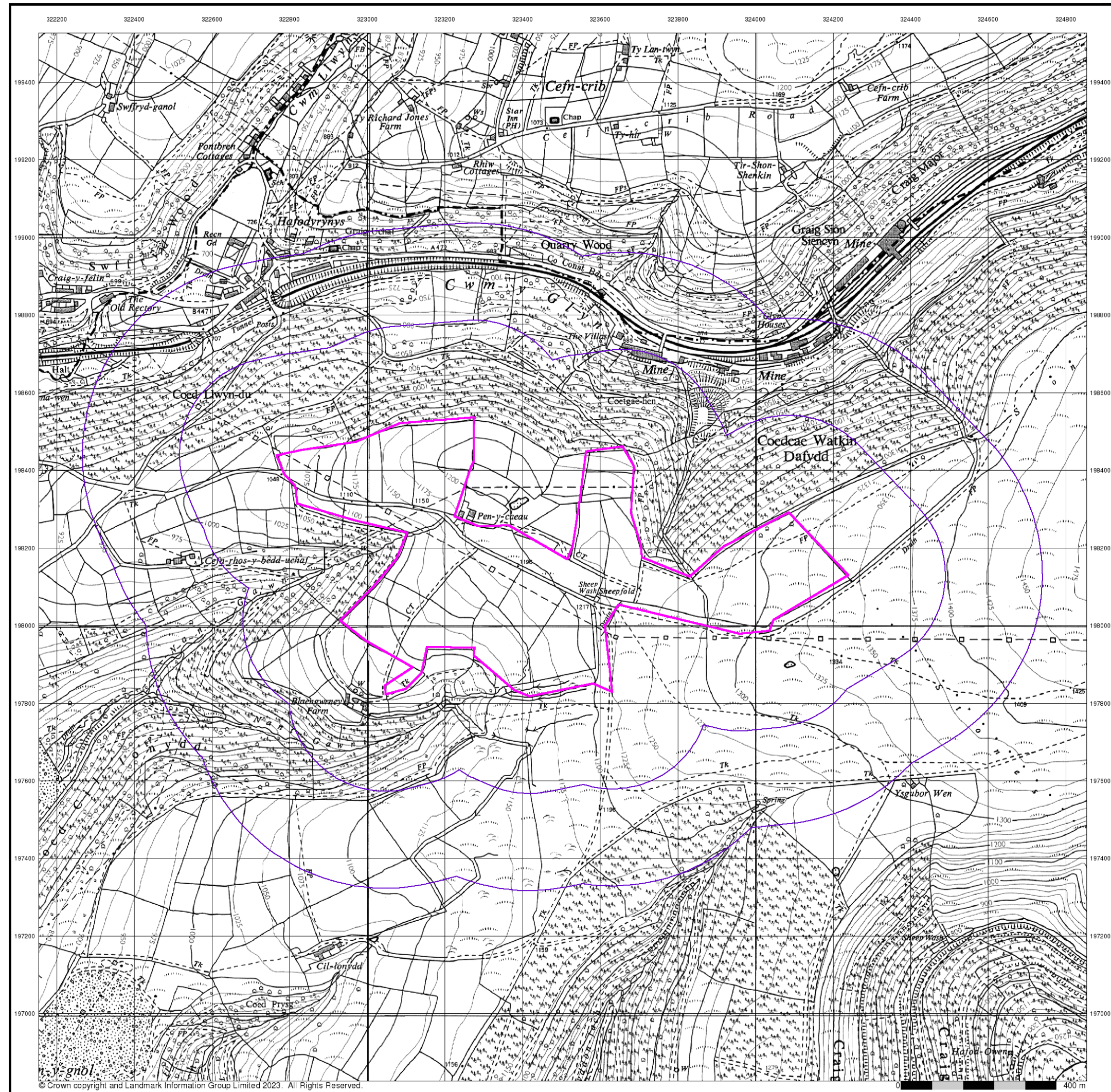
Site Details

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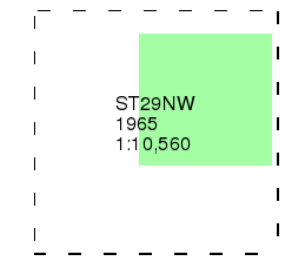


wood.

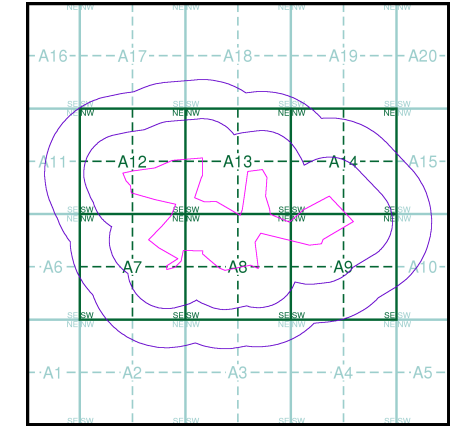
Ordnance Survey Plan Published 1965 Source map scale - 1:10,000

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

Map Name(s) and Date(s)



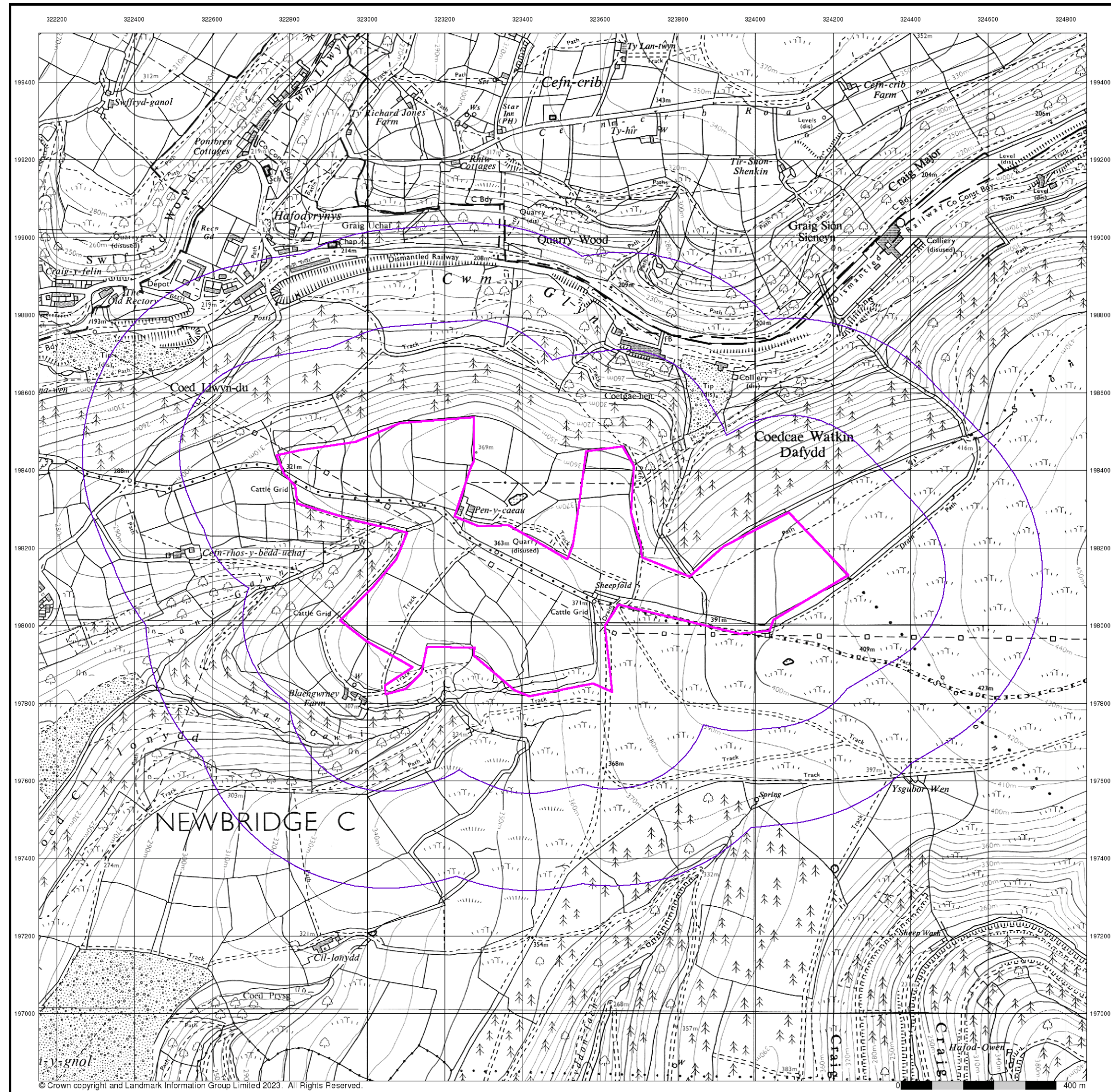
Historical Map - Slice A



Order Details	
Order Number:	315135944_1_1
Customer Ref:	21584994
National Grid Reference:	323460, 198180
Slice:	A
Site Area (Ha):	46.
Search Buffer (m):	500

Site Details

Trecelyn North Site

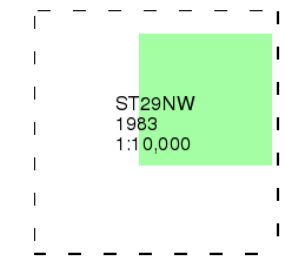


wood.

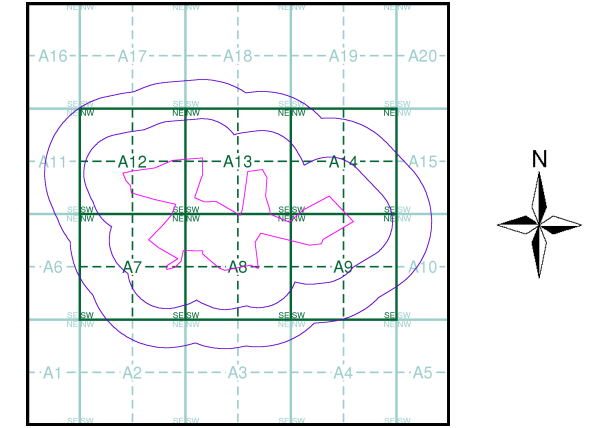
Ordnance Survey Plan
Published 1983
Source map scale - 1:10,000

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

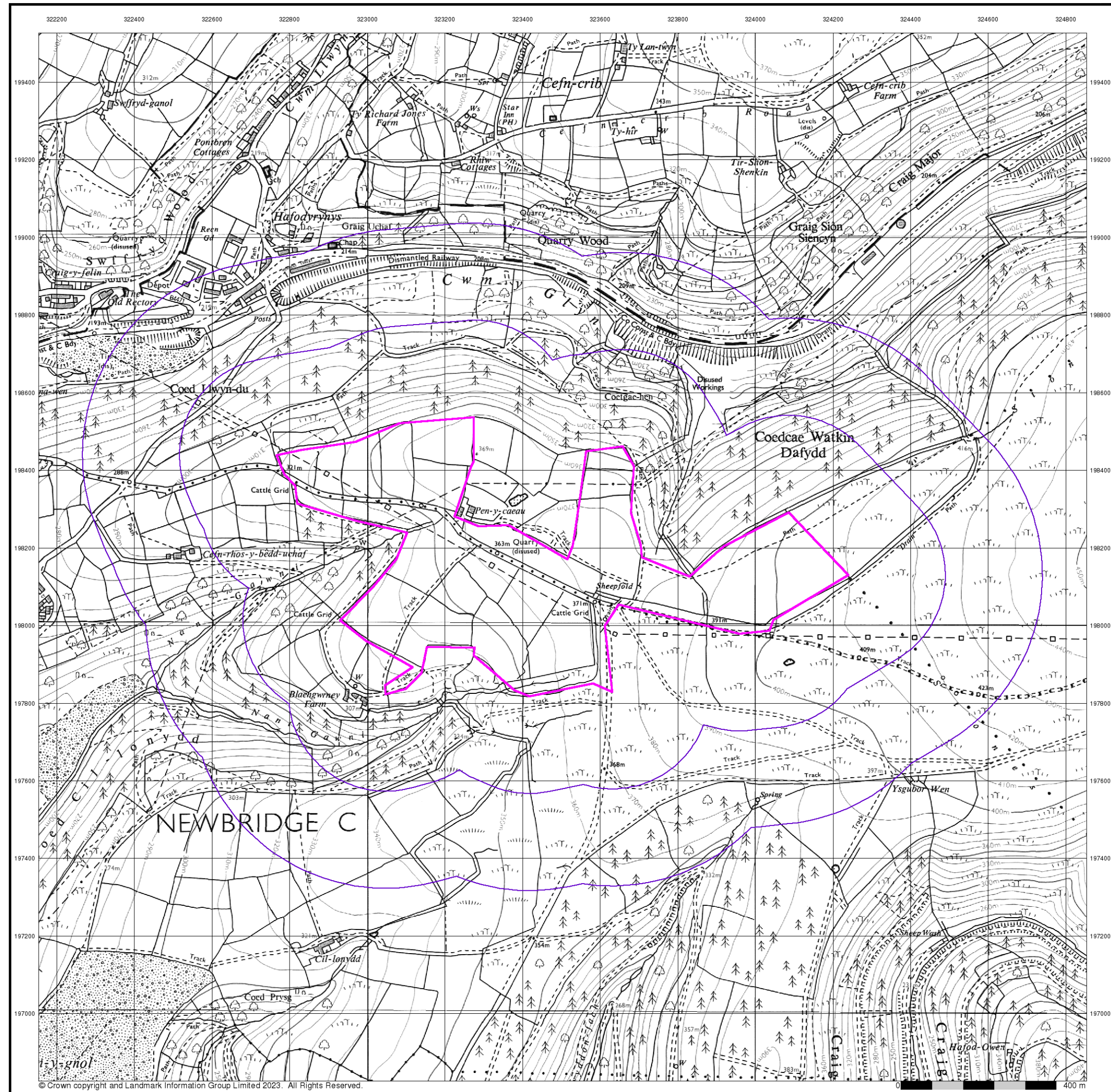
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Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
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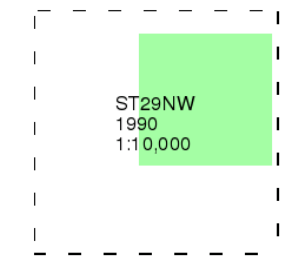


wood.

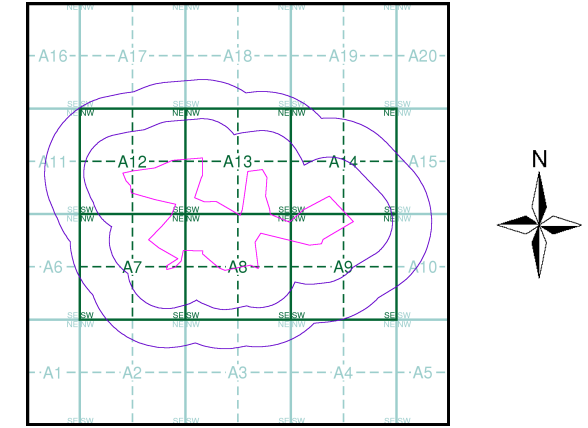
Ordnance Survey Plan
Published 1990
Source map scale - 1:10,000

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)



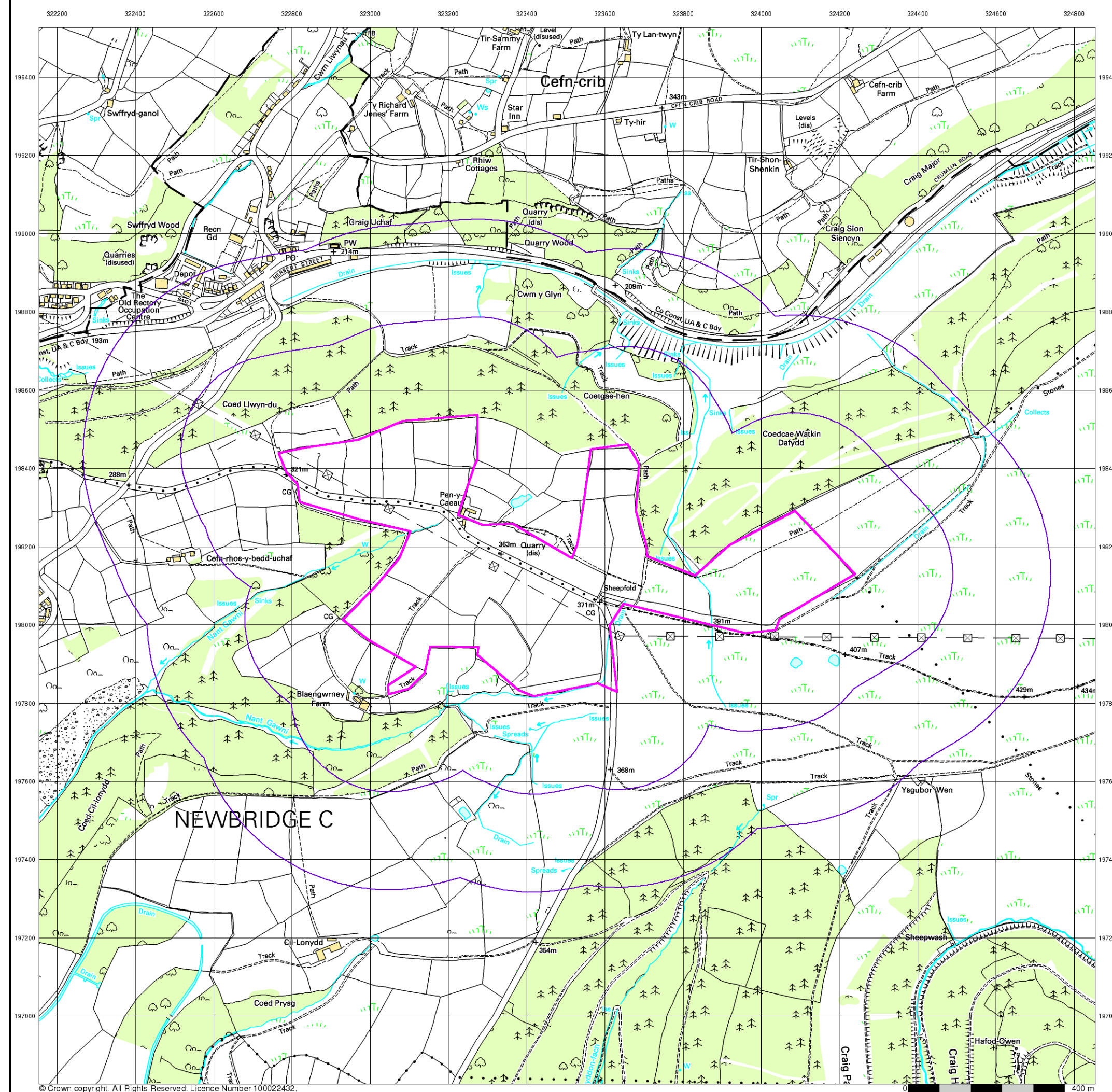
Historical Map - Slice A



Order Details

Order Number:	315135944_1_1
Customer Ref:	21584994
National Grid Reference:	323460, 198180
Slice:	A
Site Area (Ha):	46.
Search Buffer (m):	500

Site Details
Trecelyn North Site



wood.

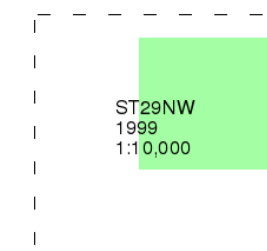
10k Raster Mapping

Published 1999

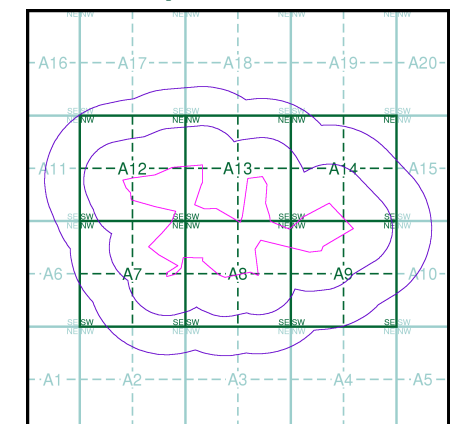
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

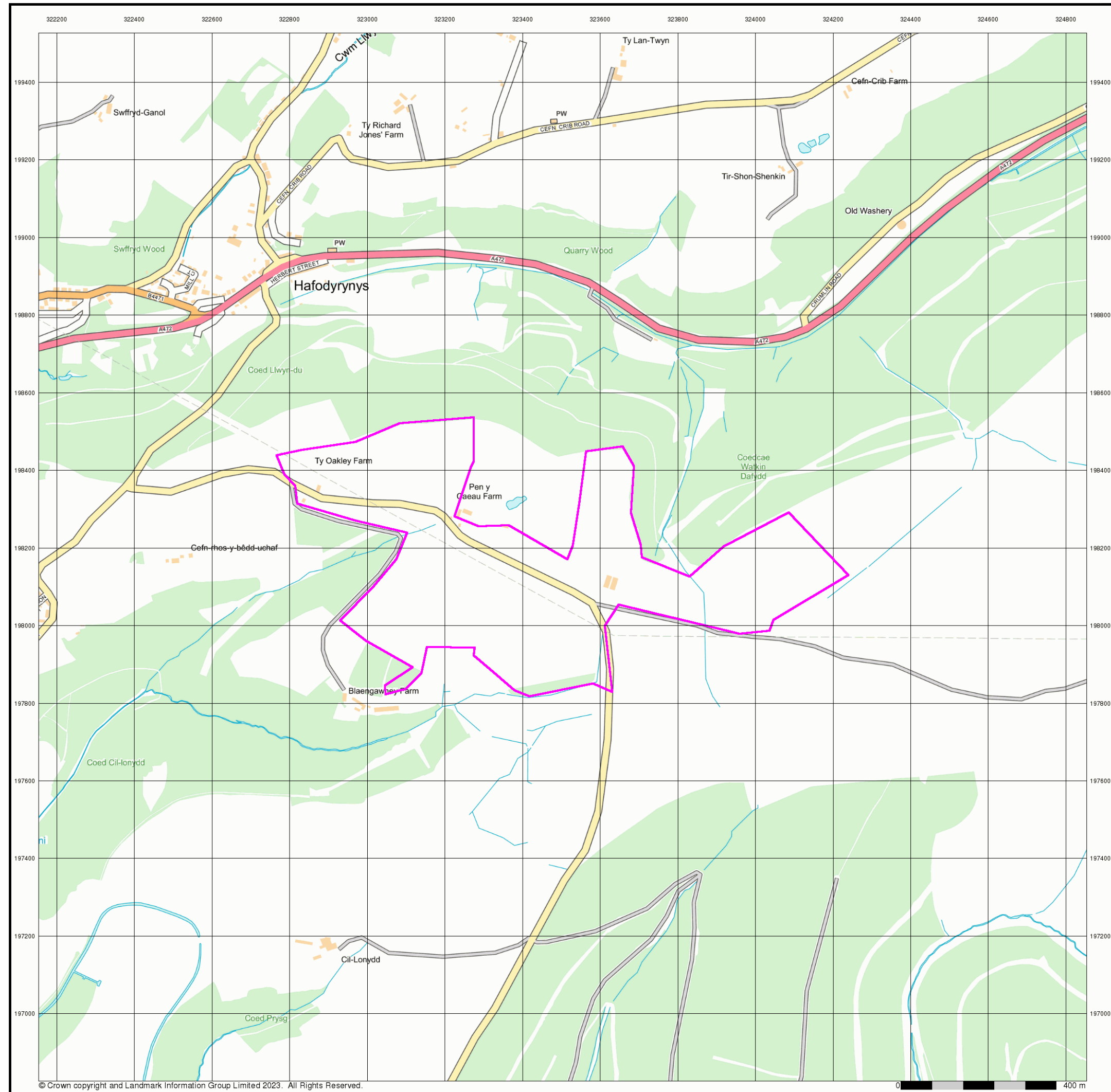
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Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 500

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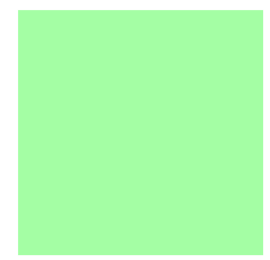
Street View

Published 2023

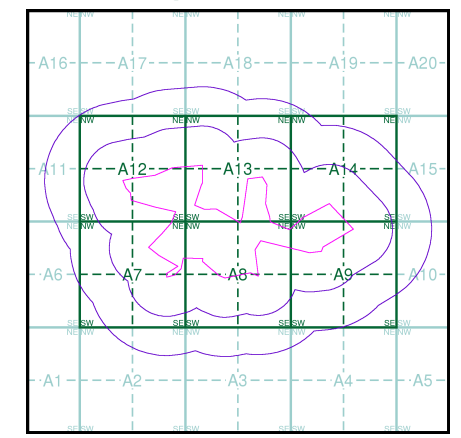
Source map scale - 1:10,000

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

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 500

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Historical Mapping Legends

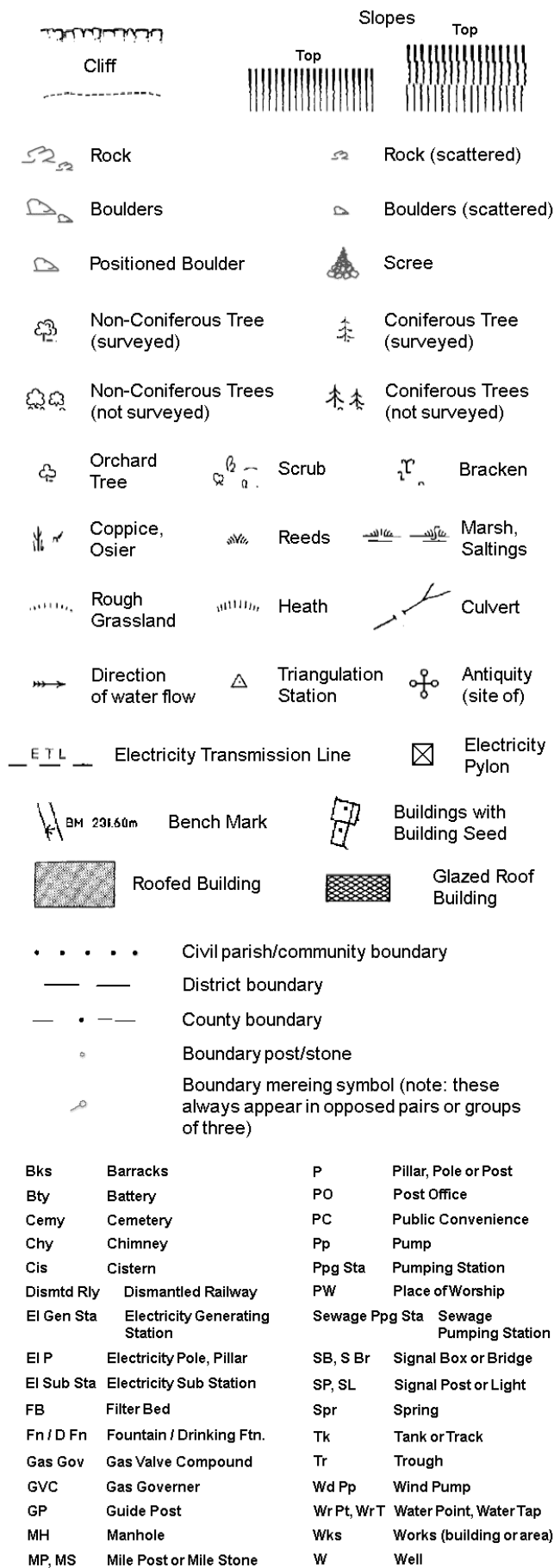
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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

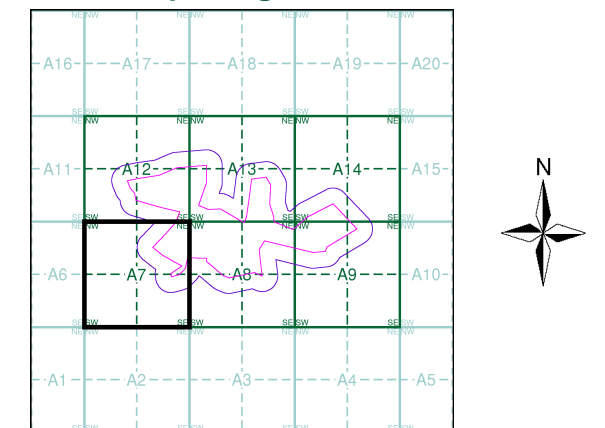


wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1879 - 1880	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:1,250	1962	5
Ordnance Survey Plan	1:2,500	1962	6
Ordnance Survey Plan	1:1,250	1970	7
Ordnance Survey Plan	1:2,500	1976	8
Additional SIMs	1:2,500	1978 - 1989	9
Additional SIMs	1:2,500	1989	10
Large-Scale National Grid Data	1:2,500	1993	11
Large-Scale National Grid Data	1:1,250	1993	12

Historical Map - Segment A7



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

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Monmouthshire

Published 1879 - 1880

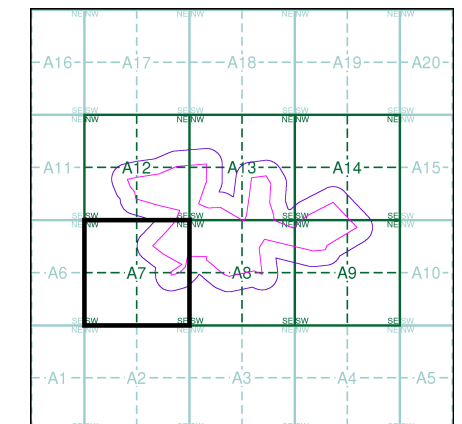
Source map scale - 1:2,500

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)

022_08 1880 1:2,500	023_05 1880 1:2,500
022_12 1879 1:2,500	023_09 1879 1:2,500

Historical Map - Segment A7



Order Details

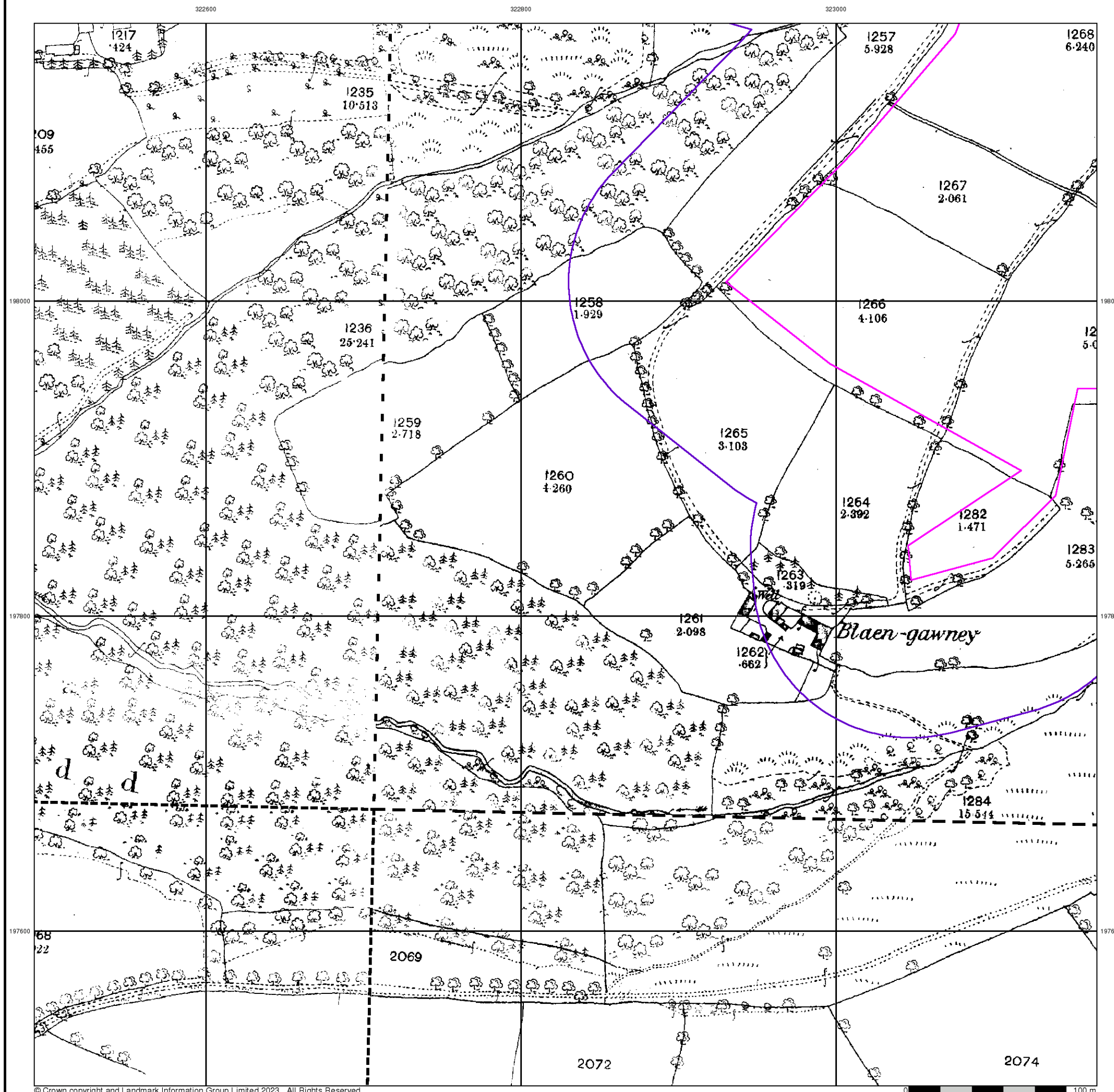
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

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Monmouthshire

Published 1920

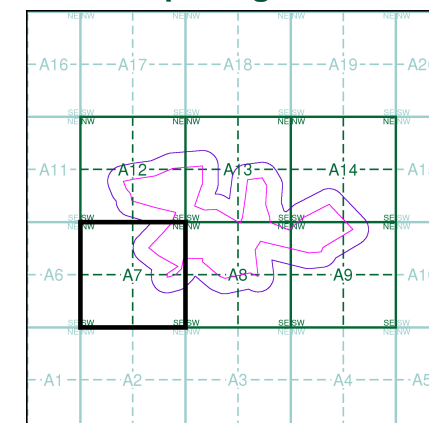
Source map scale - 1:2,500

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)

022_08 1920 1:2,500	023_05 1920 1:2,500
022_12 1920 1:2,500	023_09 1920 1:2,500

Historical Map - Segment A7



Order Details

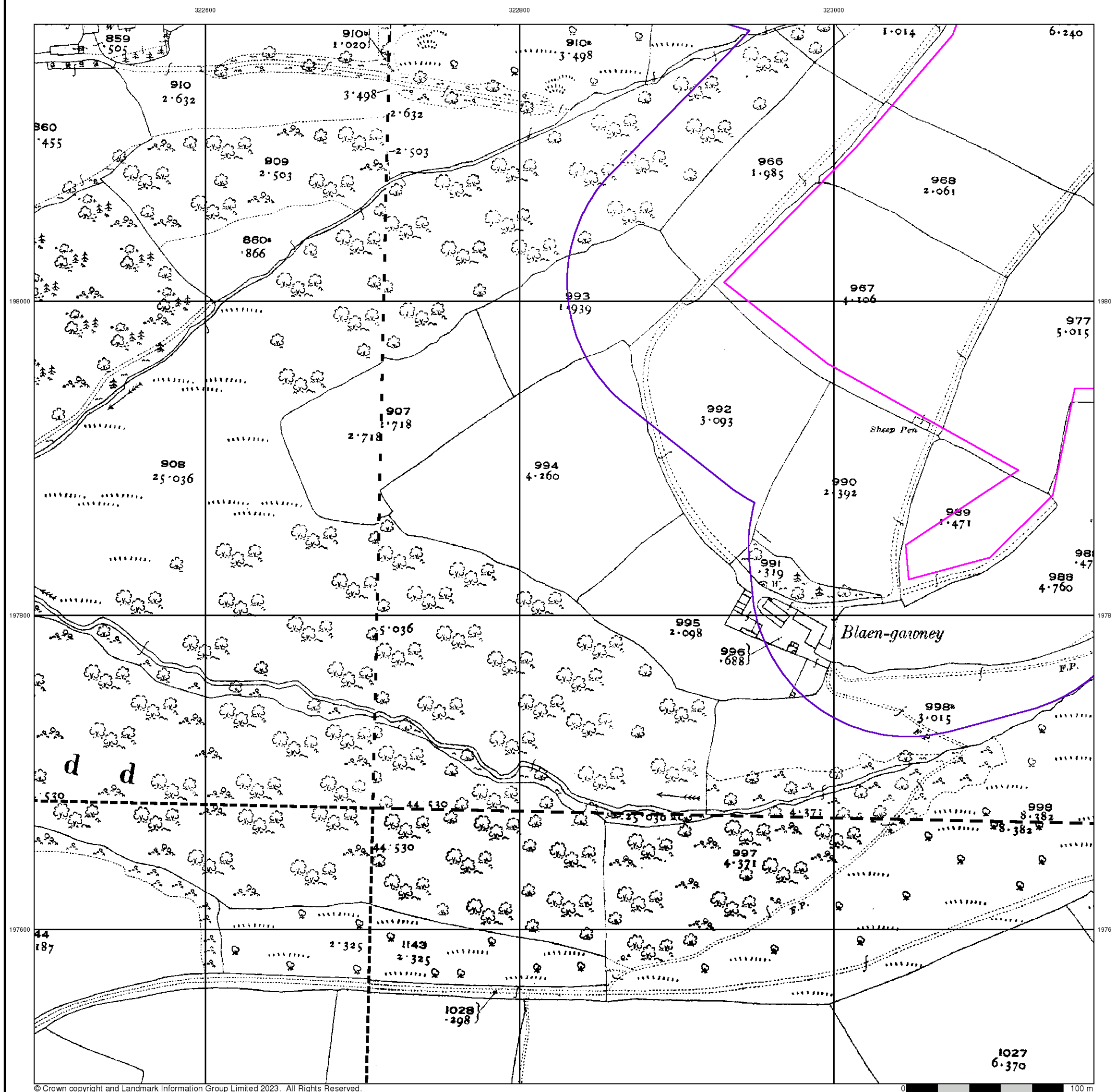
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

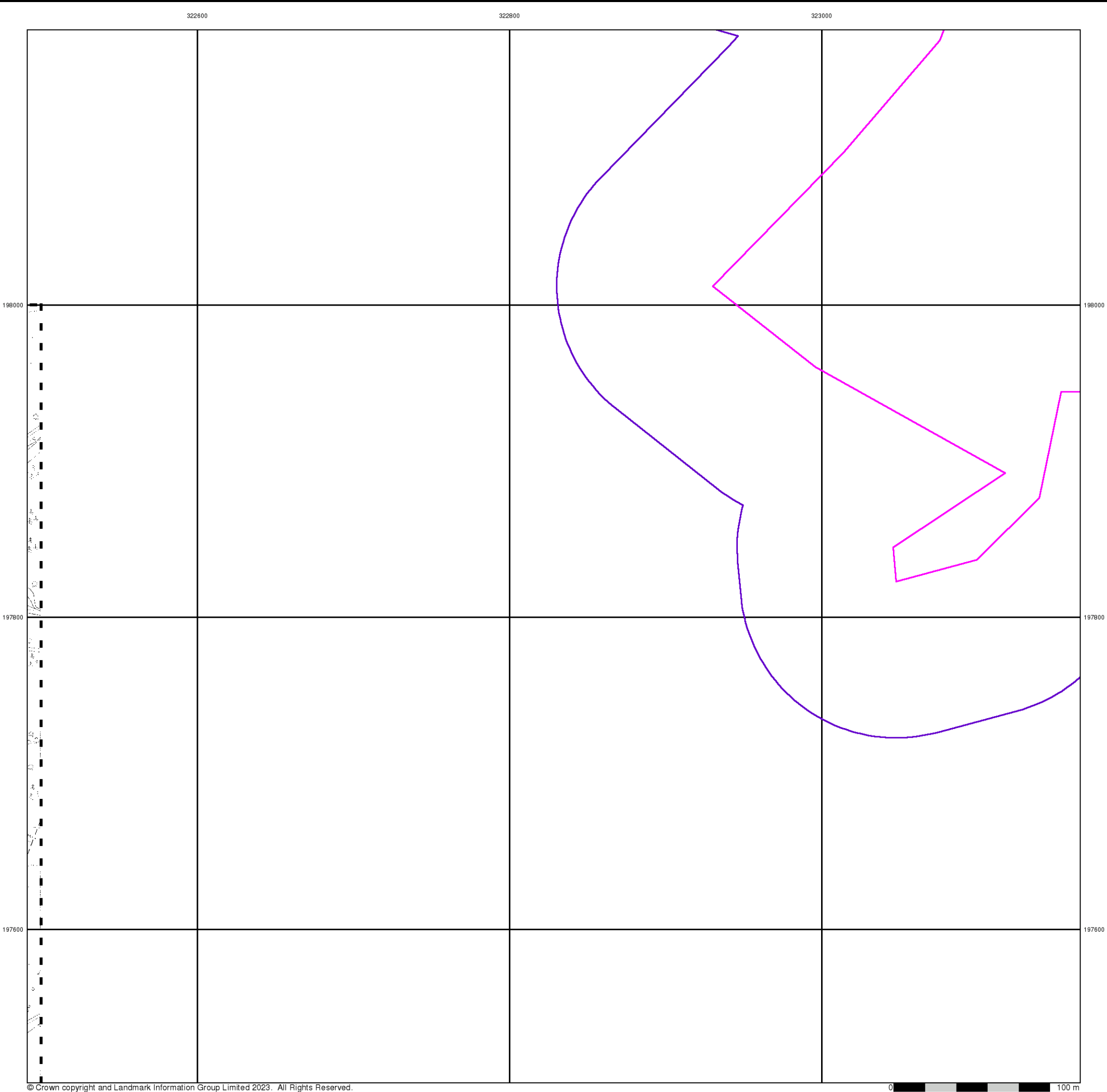
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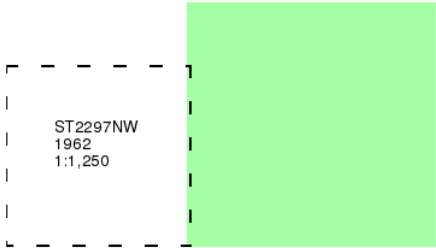
Ordnance Survey Plan

Published 1962

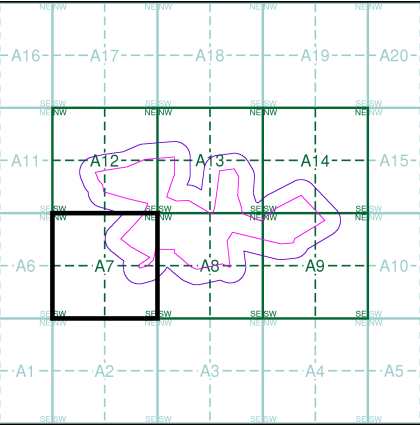
Source map scale - 1:1,250

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 A7



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1962

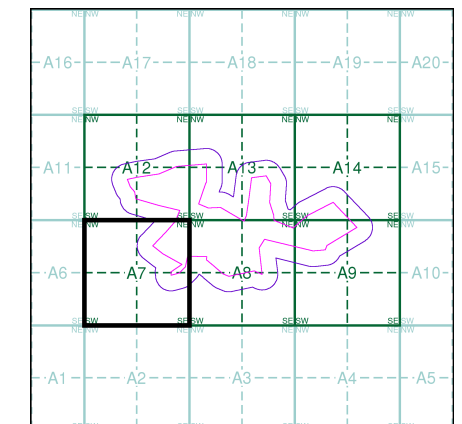
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST2298 1962 1:2,500	ST2398 1962 1:2,500
ST2297 1962 1:2,500	ST2397 1962 1:2,500

Historical Map - Segment A7



Order Details

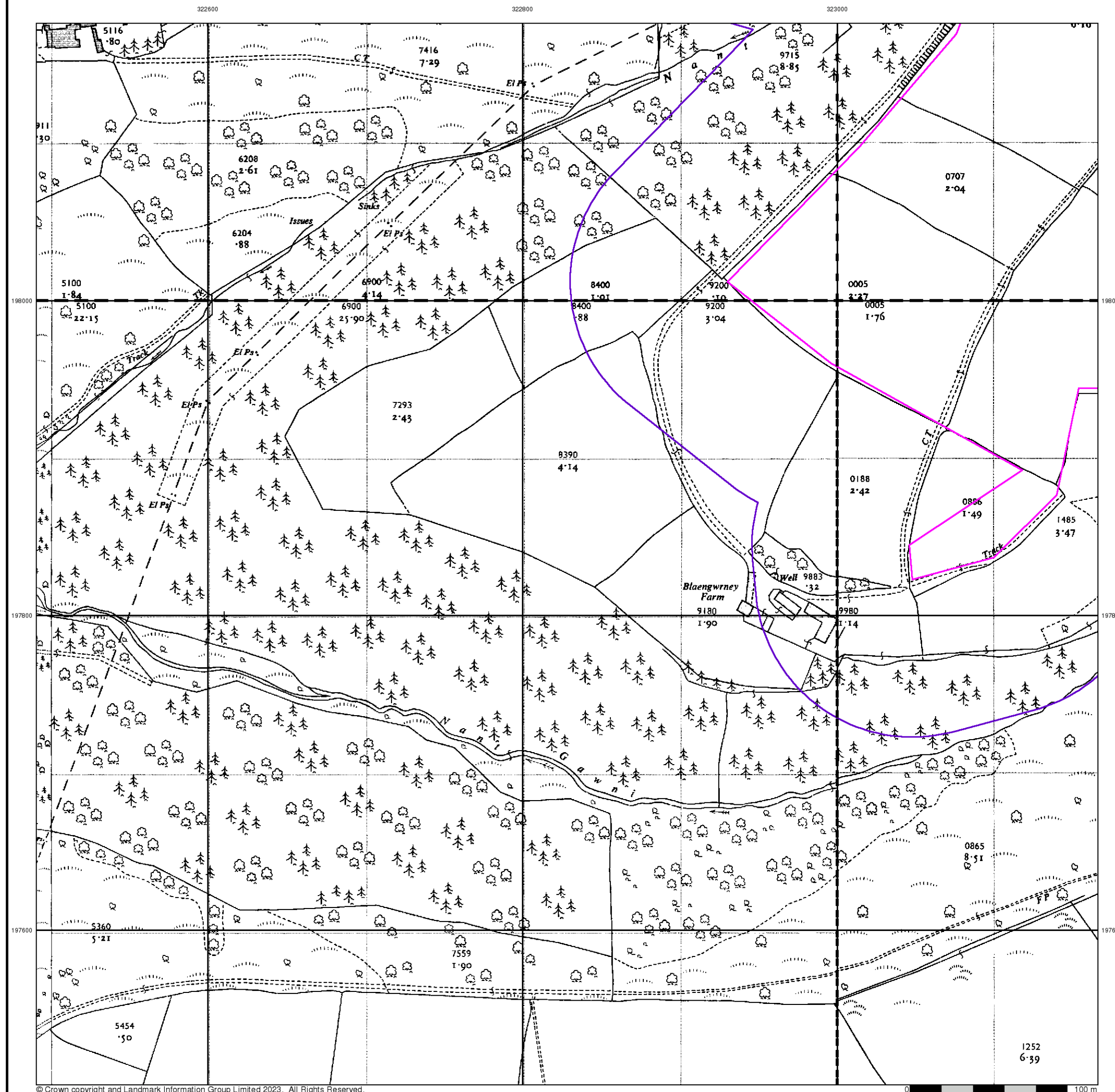
Order Number: 315135944_1_1
Customer Ref: 21584994
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Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

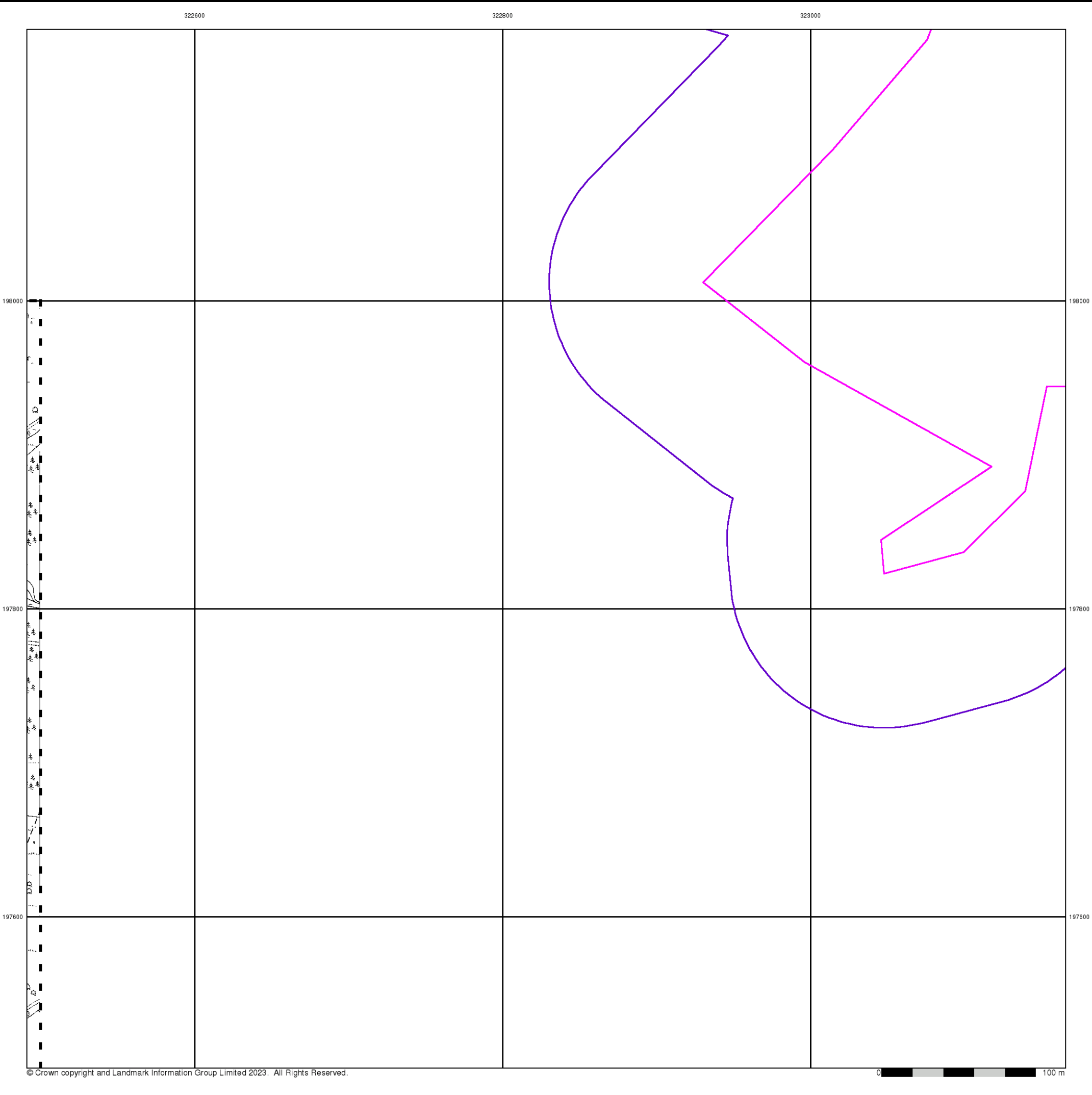
Site Details

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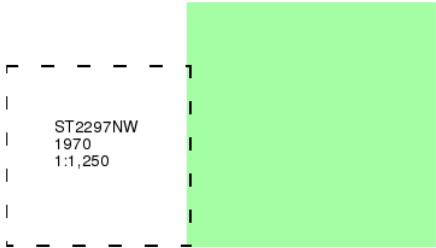
Ordnance Survey Plan

Published 1970

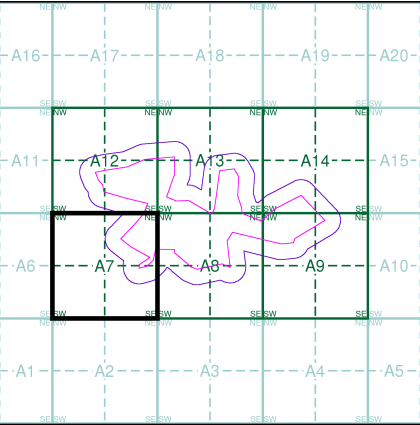
Source map scale - 1:1,250

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 A7



Order Details

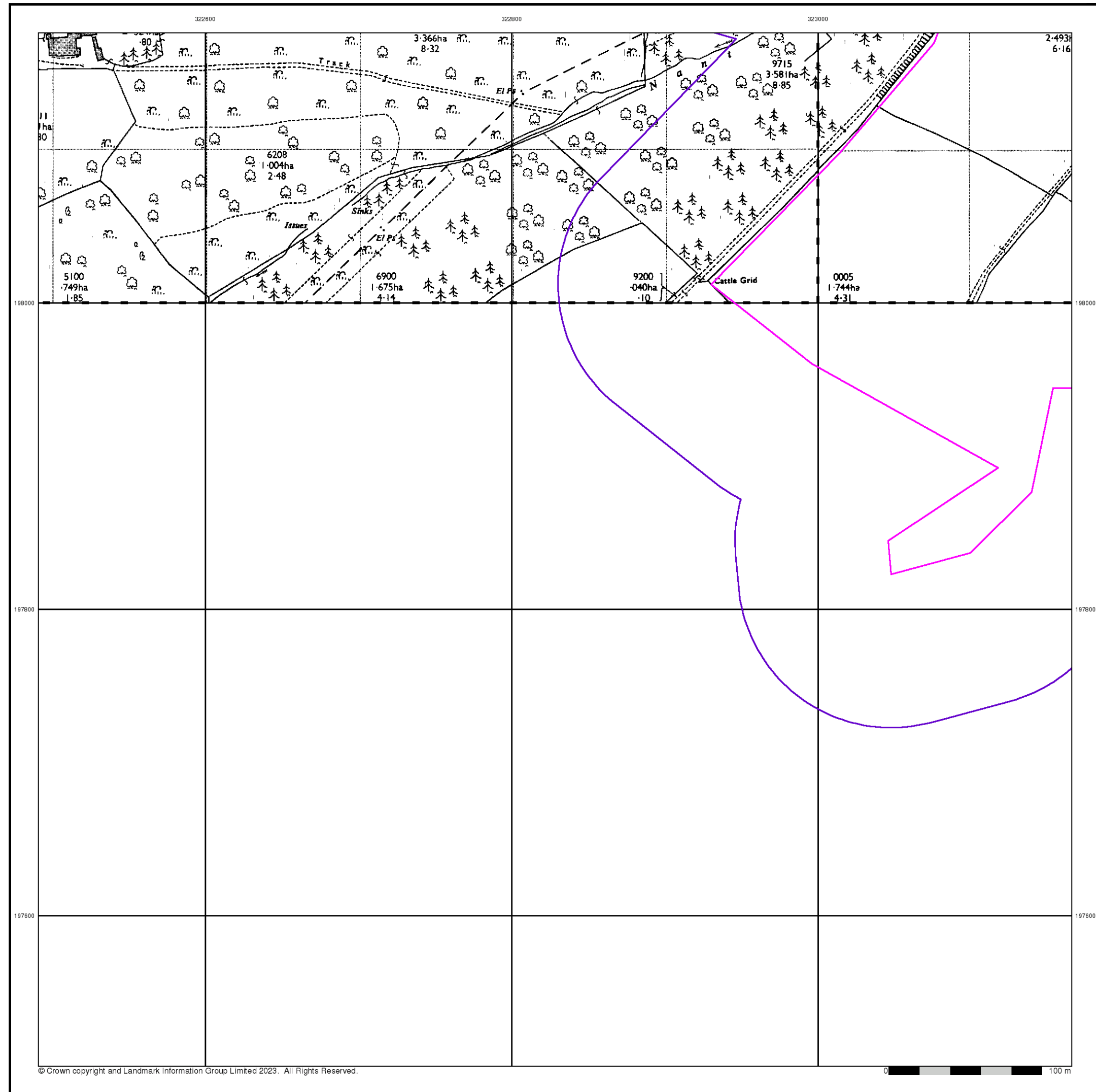
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

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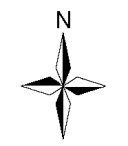
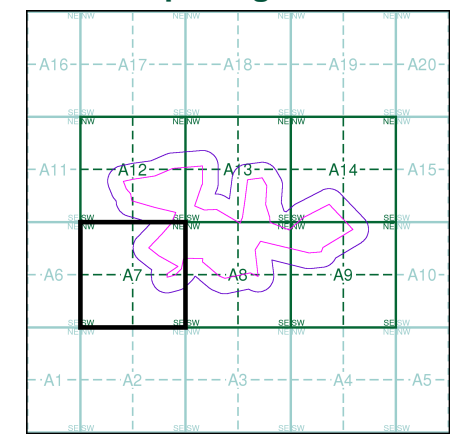
Ordinance Survey Plan
Published 1976
Source map scale - 1:2,500

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)

ST2298 1976 1:2,500	ST2398 1976 1:2,500
---------------------------	---------------------------

Historical Map - Segment A7



Order Details

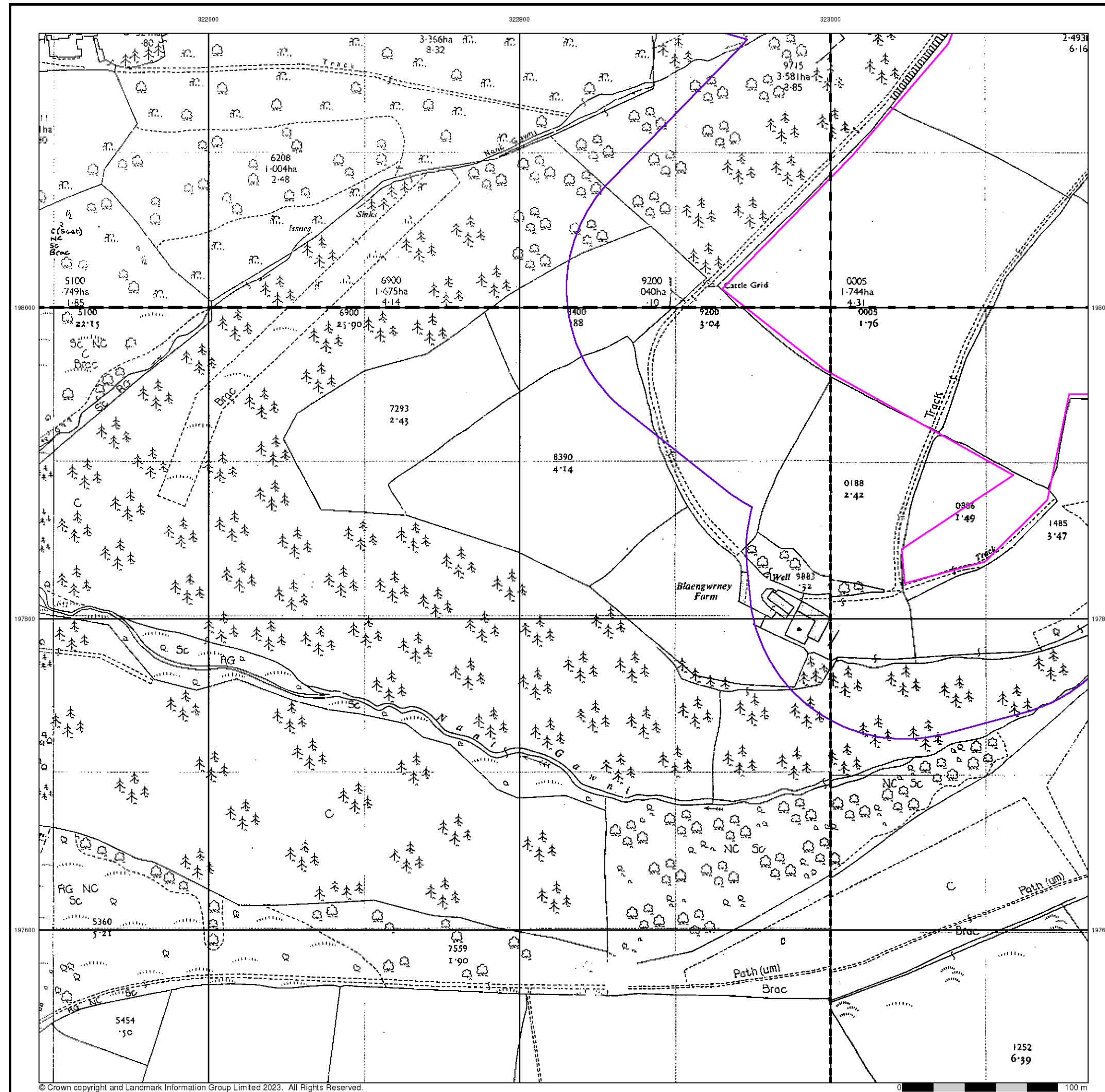
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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Additional SIMs

Published 1978 - 1989

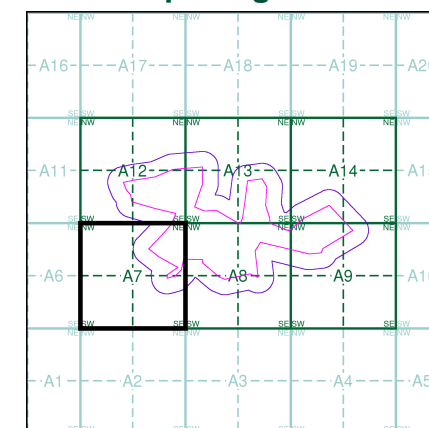
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST2298 1989 1:2,500	ST2398 1978 1:2,500
ST2297 1989 1:2,500	ST2397 1989 1:2,500

Historical Map - Segment A7



Order Details

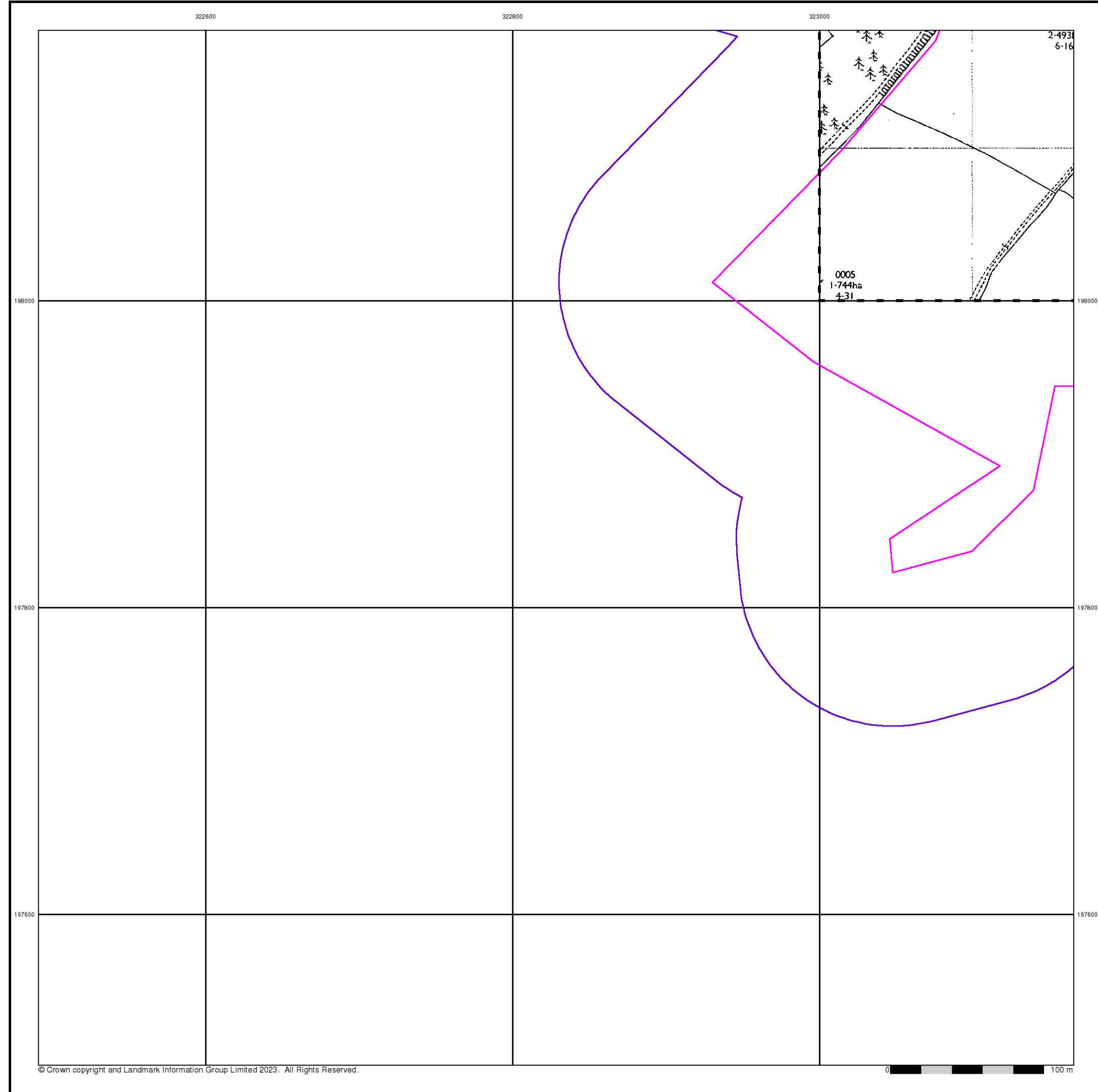
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

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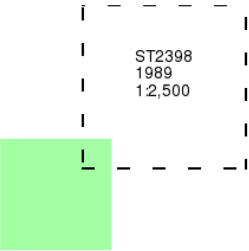
Additional SIMs

Published 1989

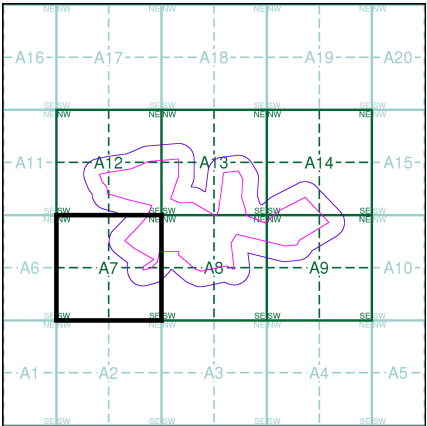
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

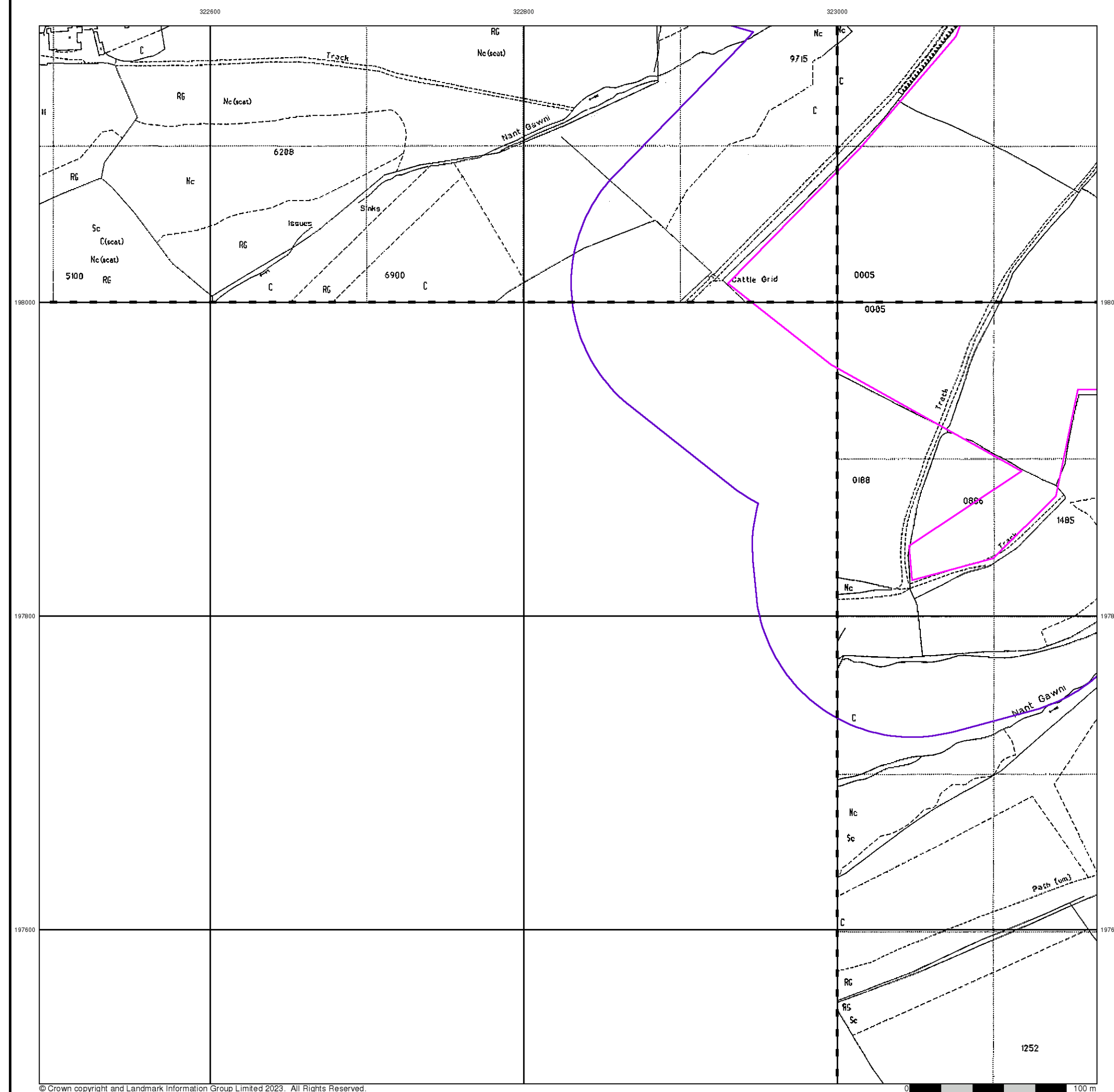
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1993

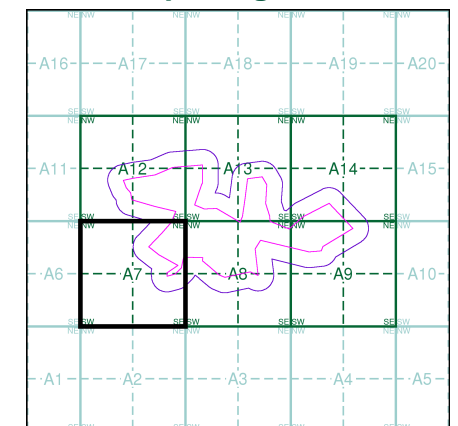
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST2298 1993 12,500	ST2398 1993 12,500
	
	ST2397 1993 12,500

Historical Map - Segment A7



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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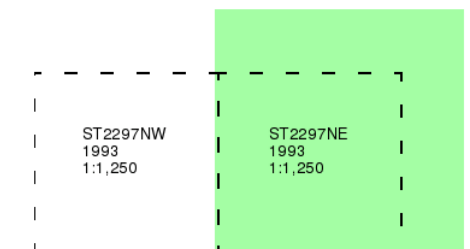
Large-Scale National Grid Data

Published 1993

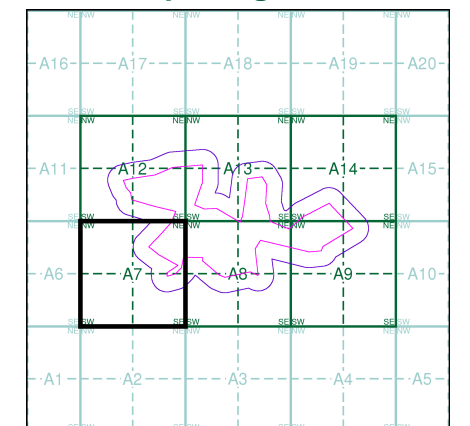
Source map scale - 1:1,250

'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 A7



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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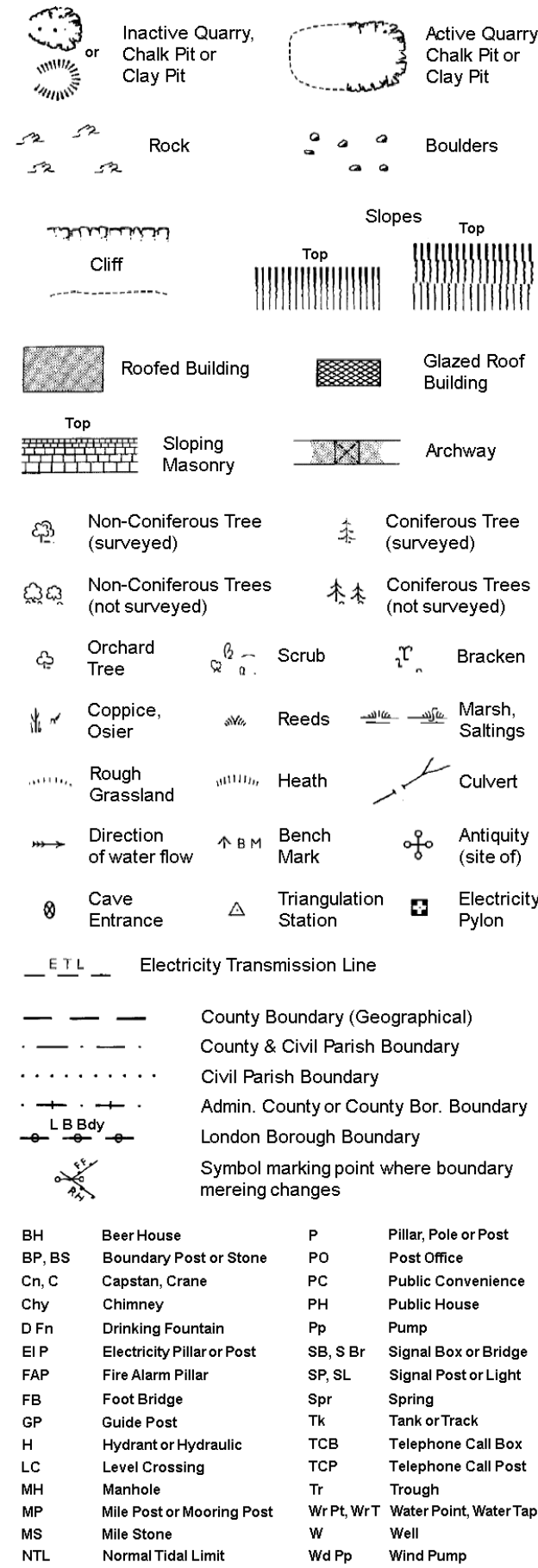
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Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

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



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



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

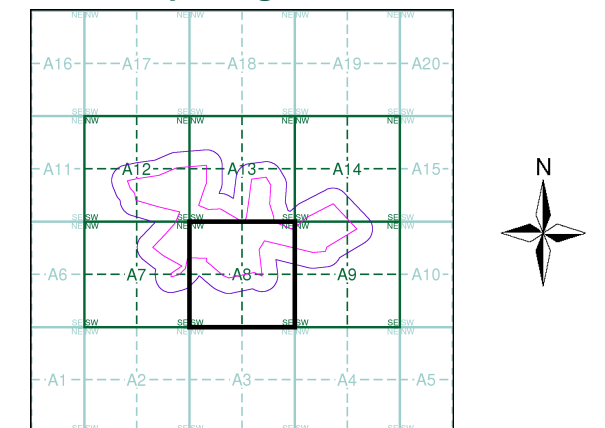


wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1879 - 1880	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1976	6
Additional SIMs	1:2,500	1978 - 1989	7
Additional SIMs	1:2,500	1989	8
Large-Scale National Grid Data	1:2,500	1993	9

Historical Map - Segment A8



Order Details

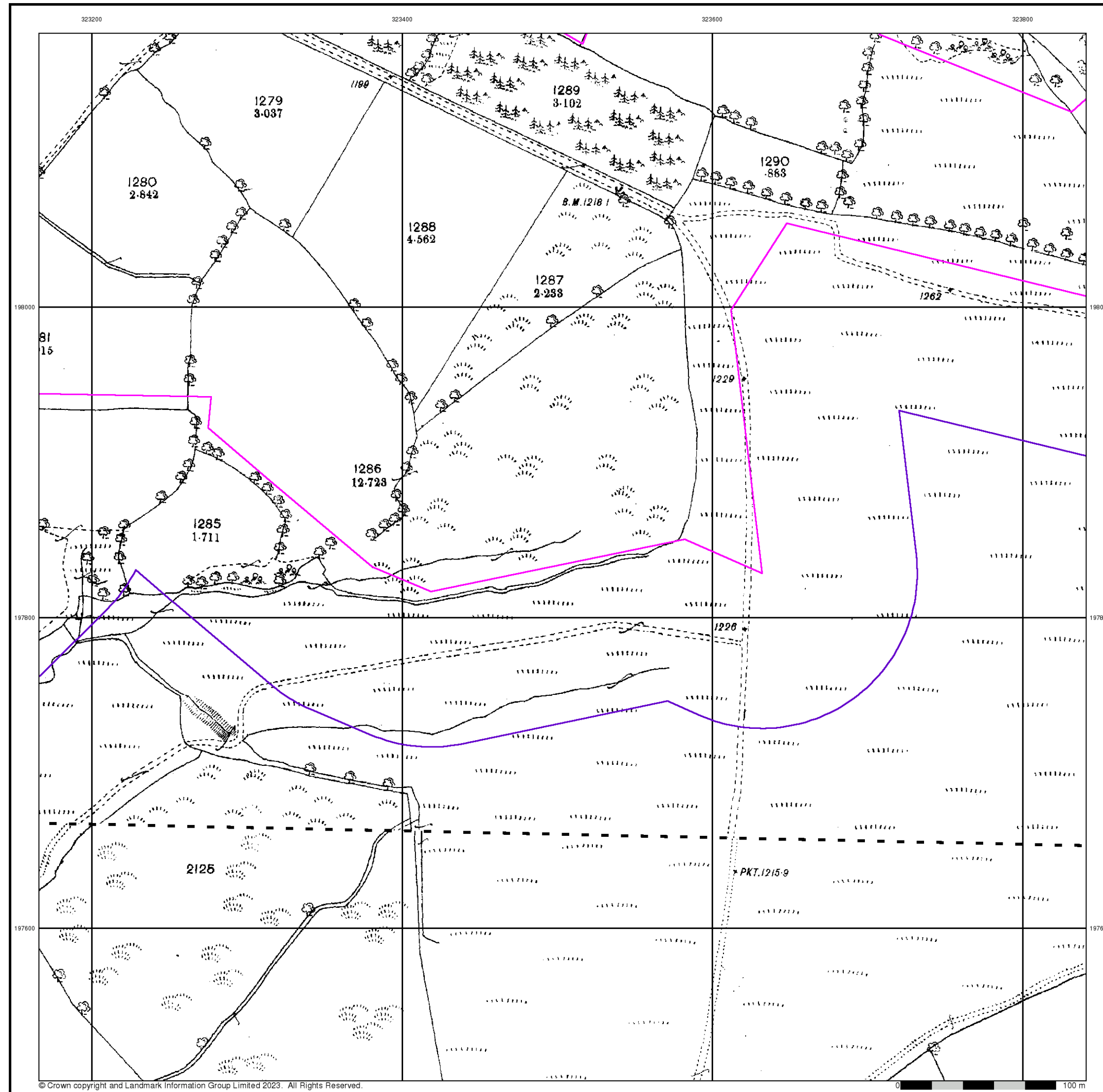
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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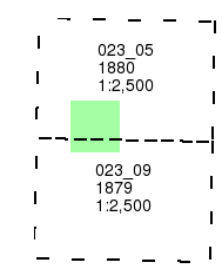
Monmouthshire

Published 1879 - 1880

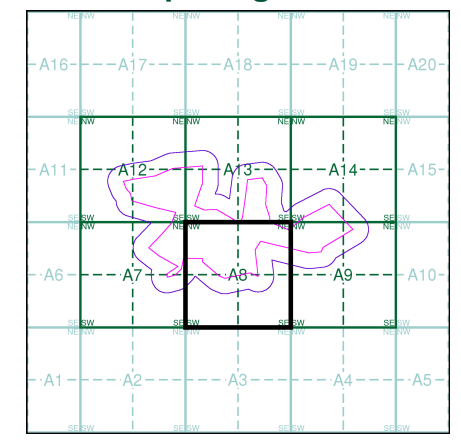
Source map scale - 1:2,500

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 A8



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site



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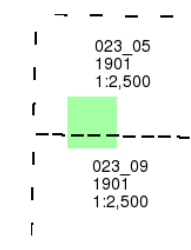
Monmouthshire

Published 1901

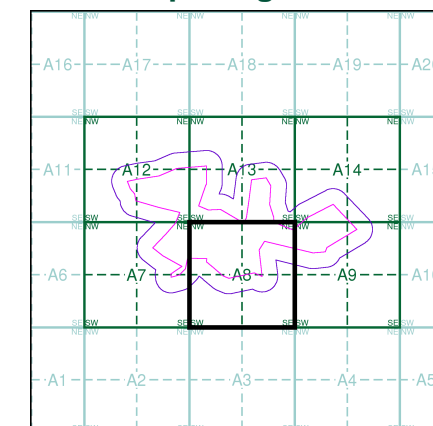
Source map scale - 1:2,500

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 A8



Order Details

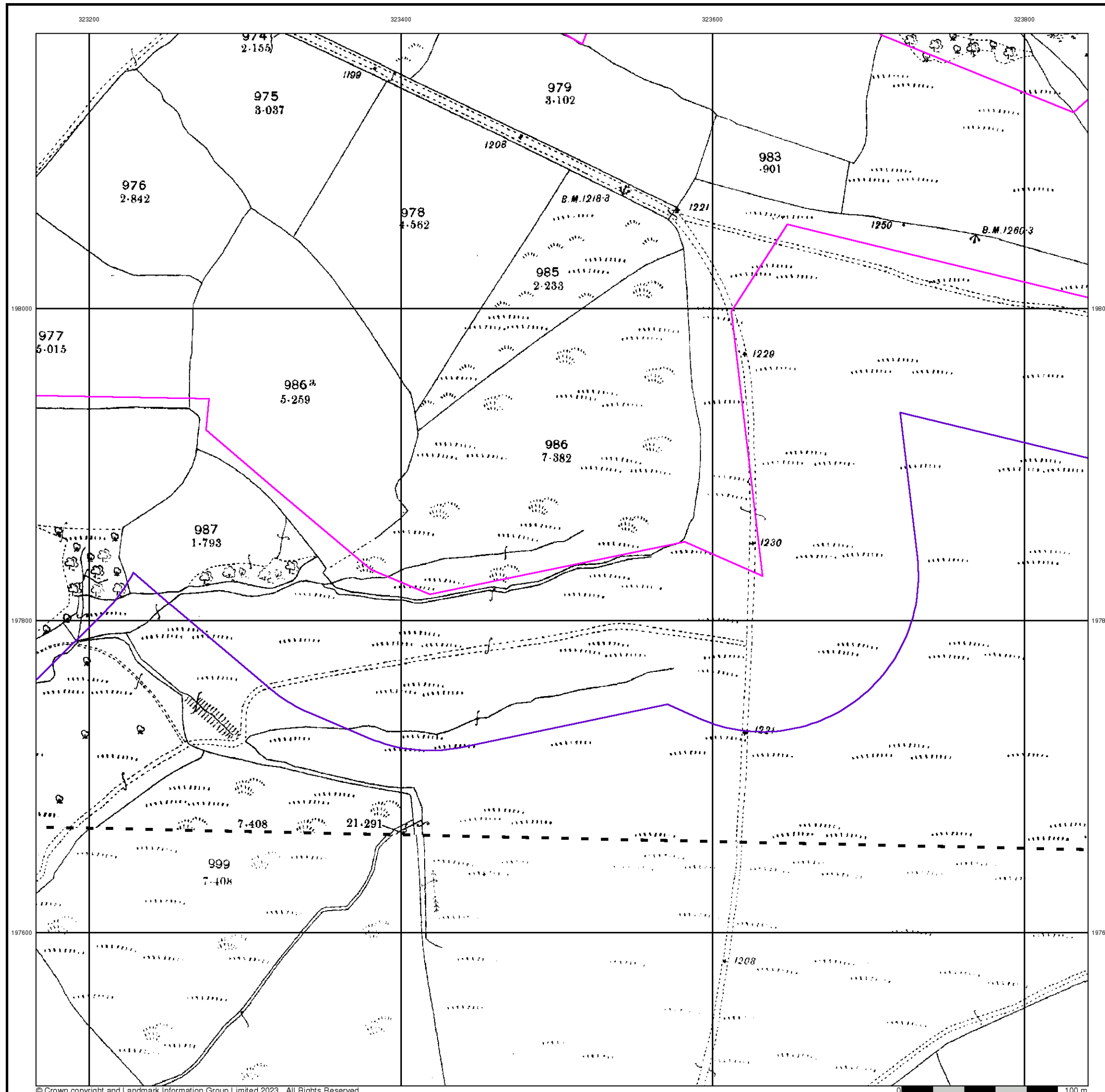
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site

Landmark
INFORMATION GROUP

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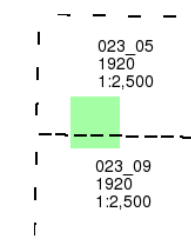
Monmouthshire

Published 1920

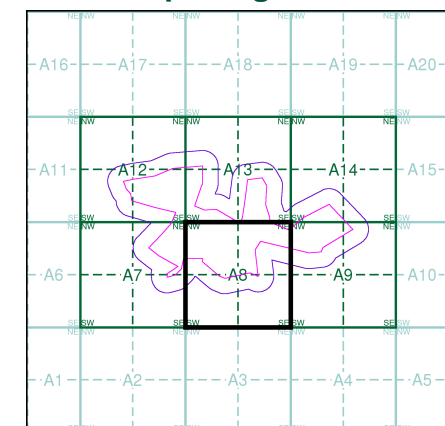
Source map scale - 1:2,500

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 A8



Order Details

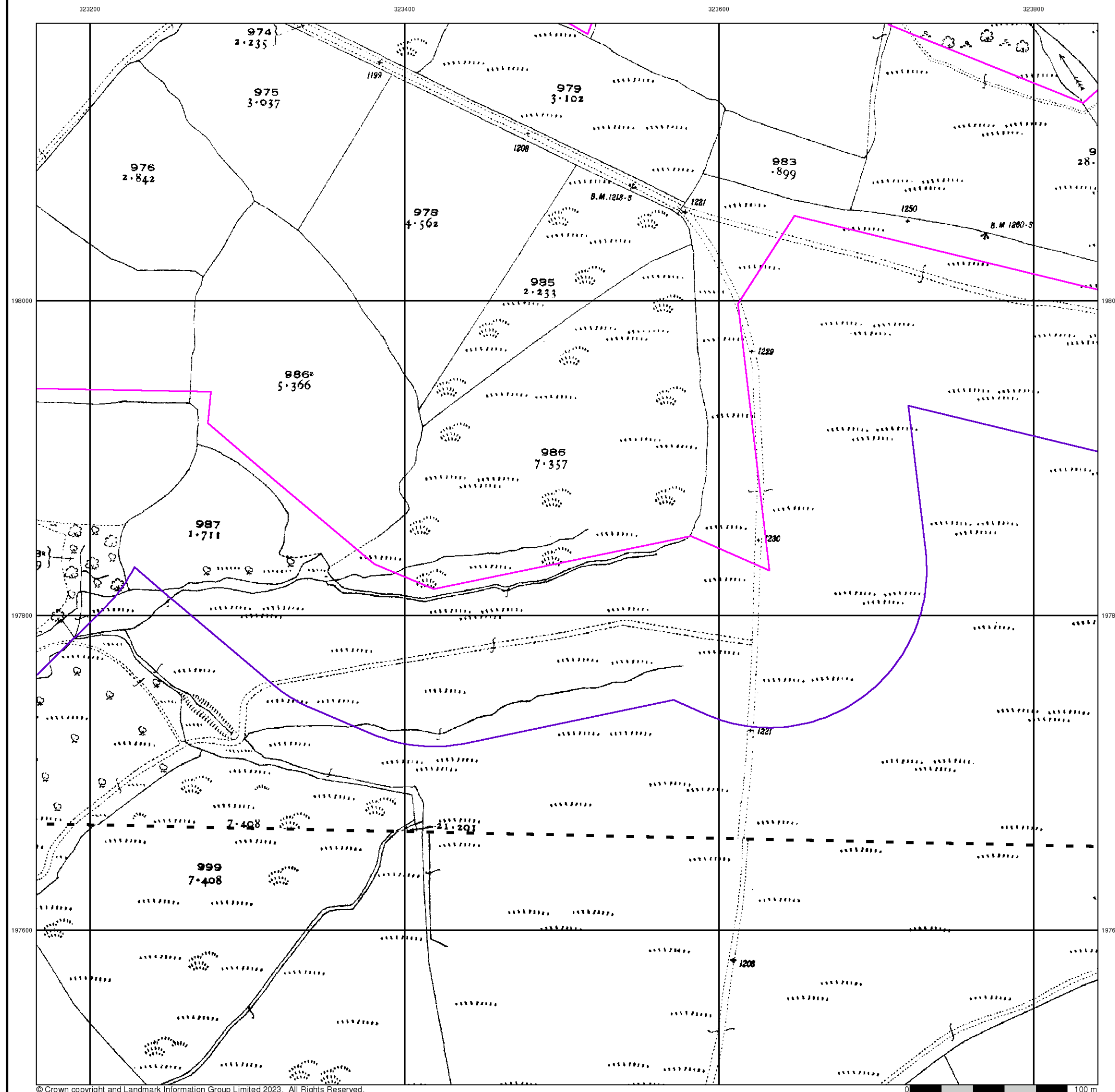
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Customer Ref: 21584994
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Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

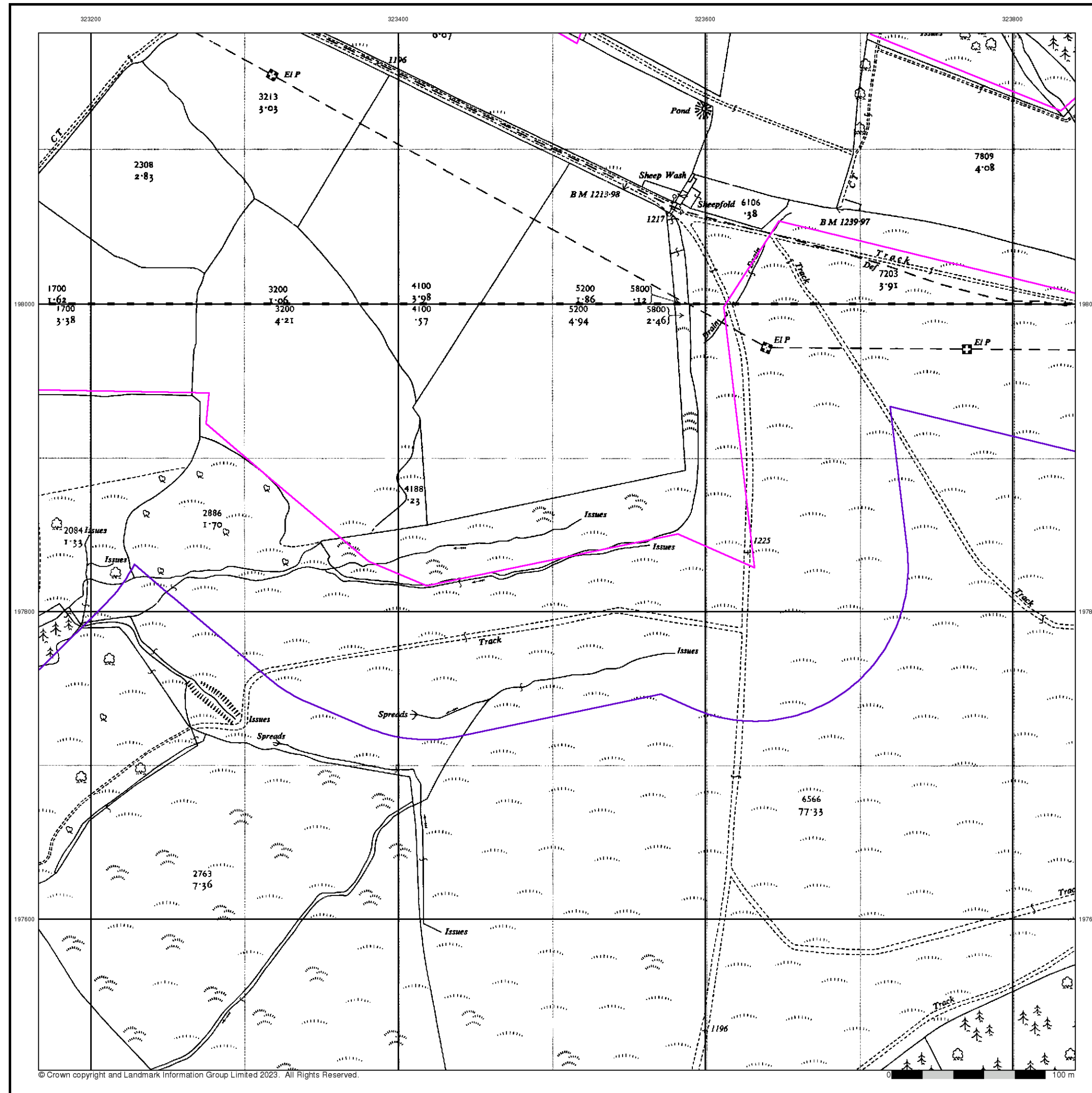
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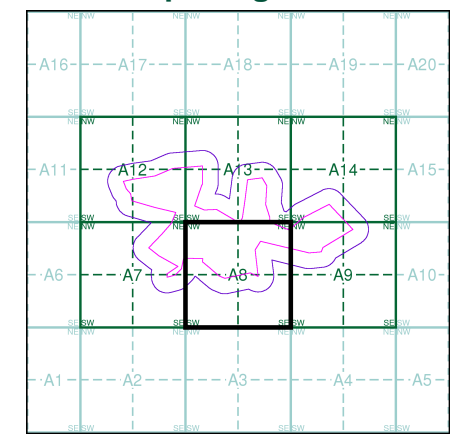
Ordnance Survey Plan
Published 1962
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST2398
1962
1:2,500
ST2397
1962
1:2,500

Historical Map - Segment A8



Order Details

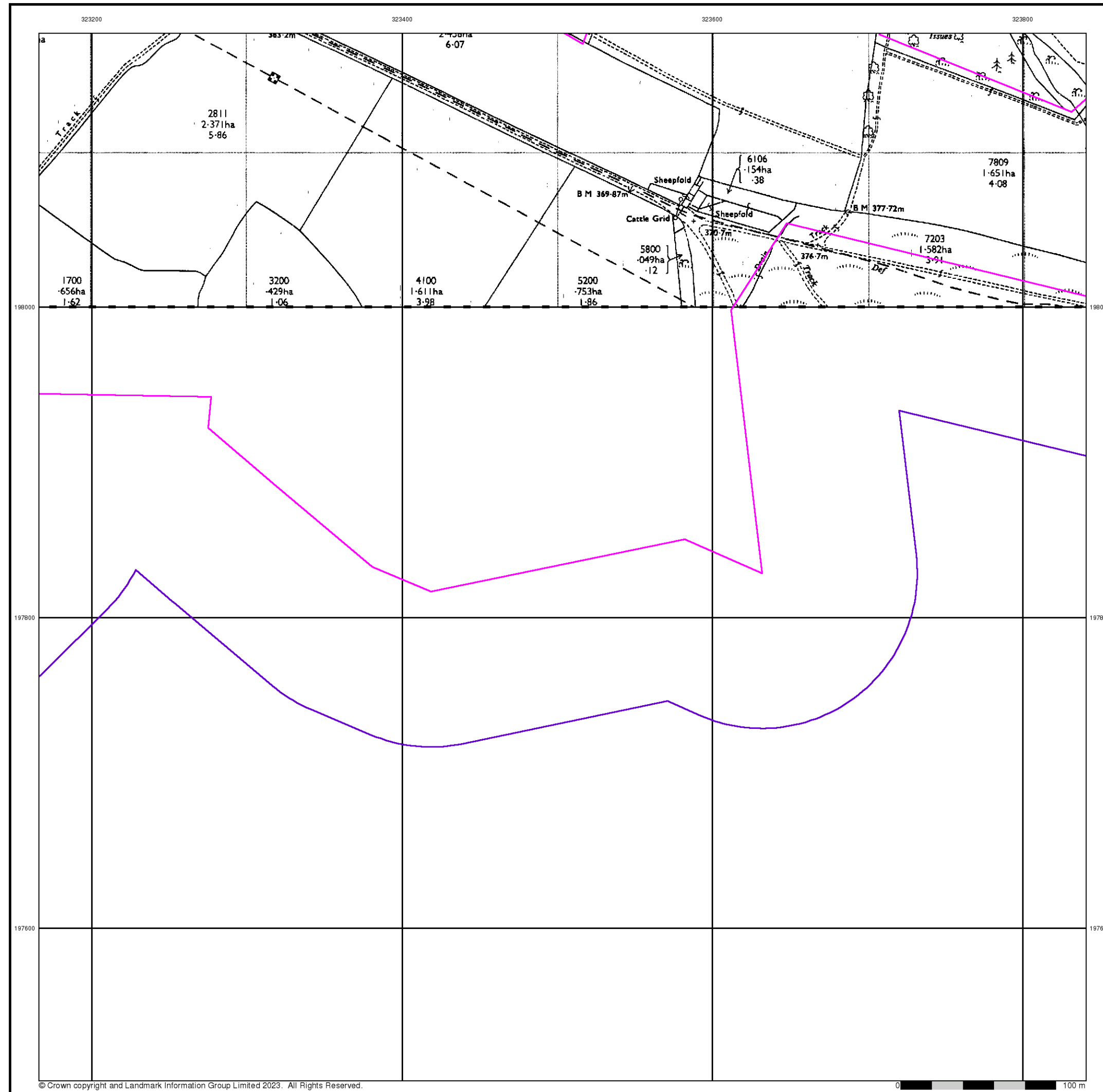
Order Number: 315135944_1_1
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Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site



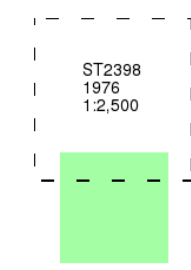
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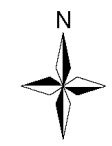
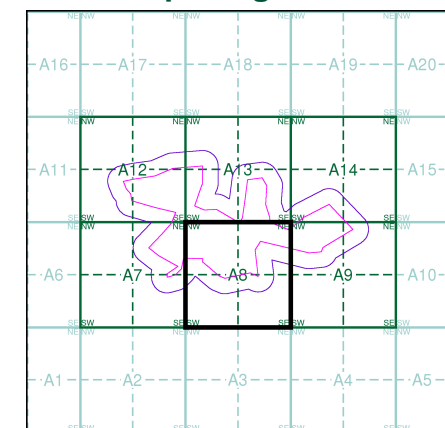
Ordinance Survey Plan
Published 1976
Source map scale - 1:2,500

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 A8



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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Additional SIMs

Published 1978 - 1989

Source map scale - 1:2,500

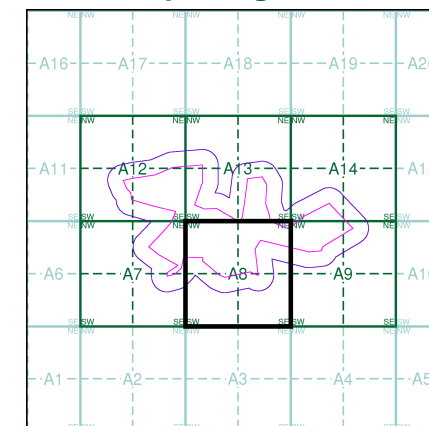
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

ST2398
1978
1:2,500

ST2397
1989
1:2,500

Historical Map - Segment A8



Order Details

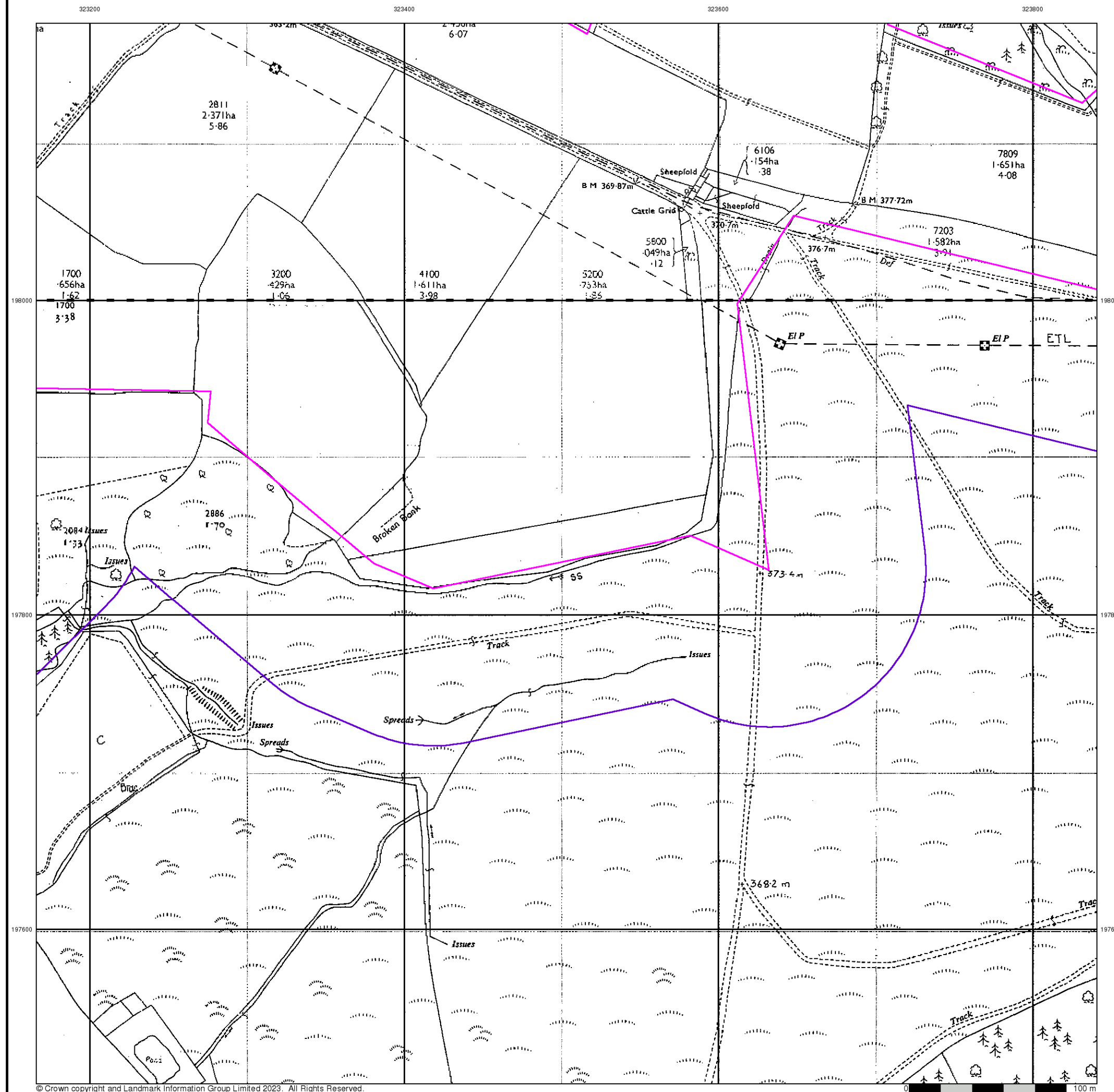
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

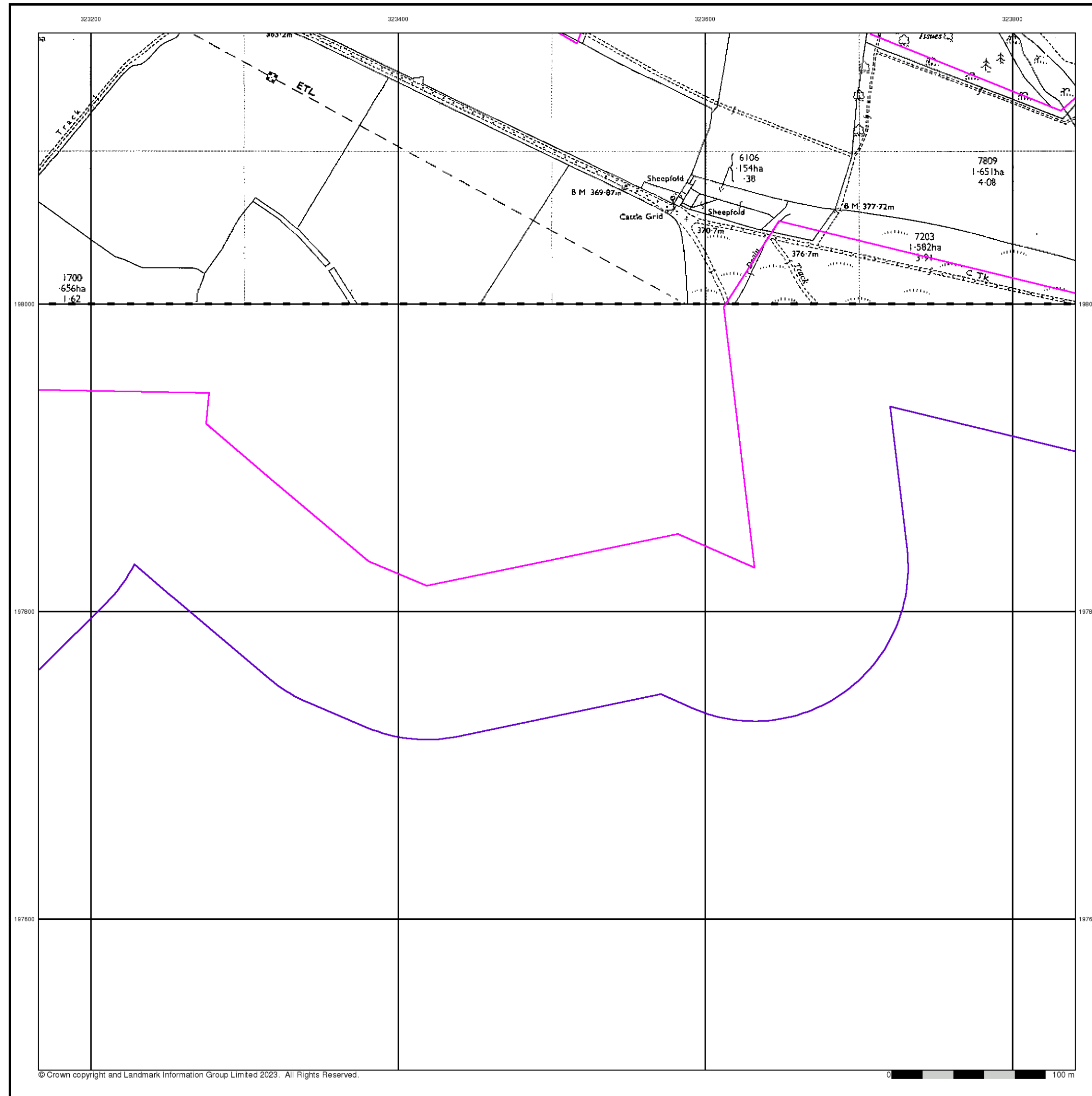
Site Details

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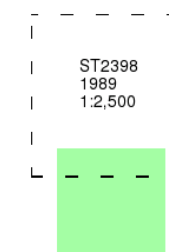
Additional SIMs

Published 1989

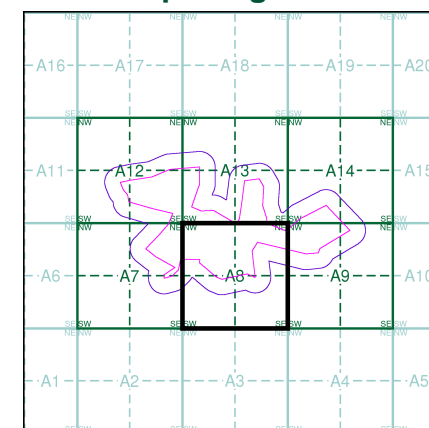
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

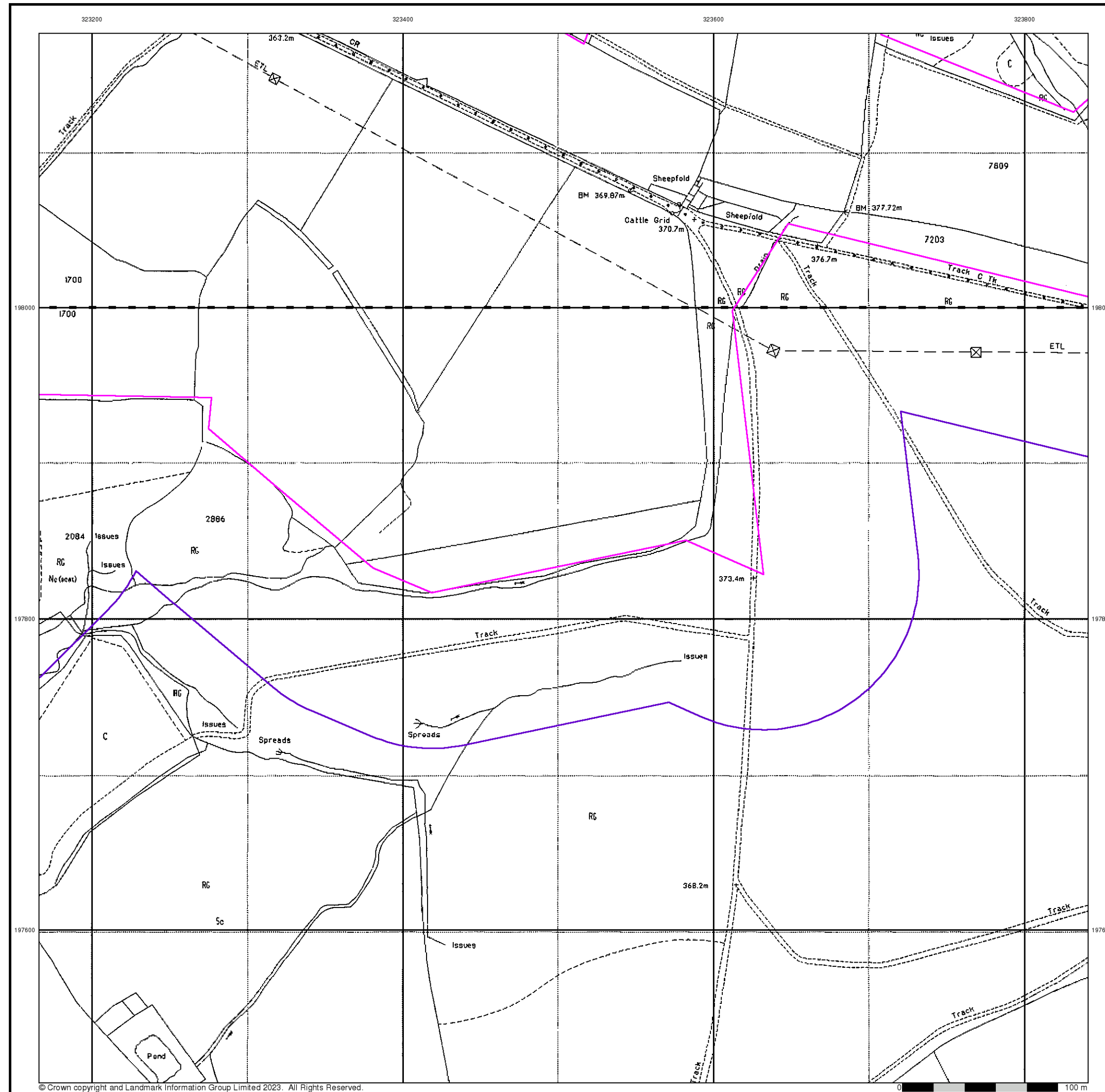
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

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Large-Scale National Grid Data

Published 1993

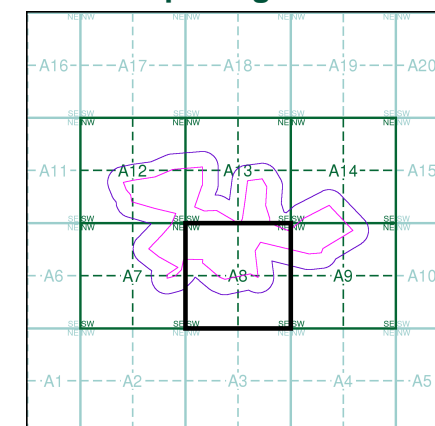
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST2398	1993	1:2,500
ST2397	1993	1:2,500

Historical Map - Segment A8



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

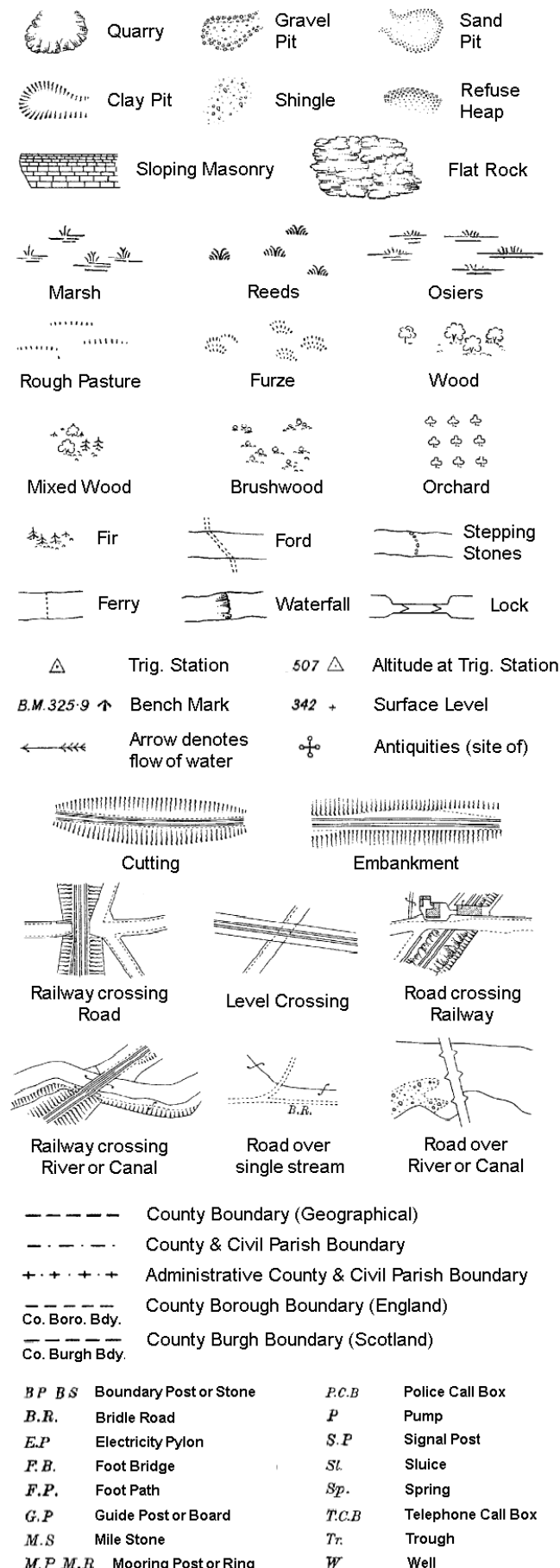
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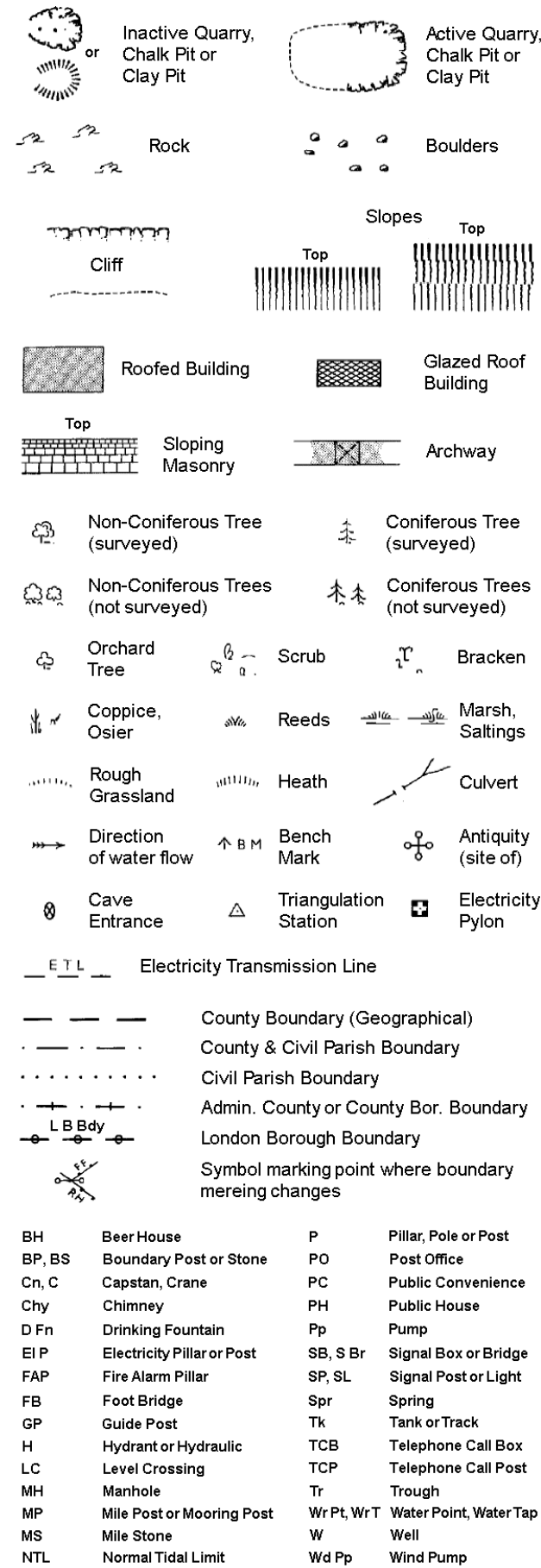
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Historical Mapping Legends

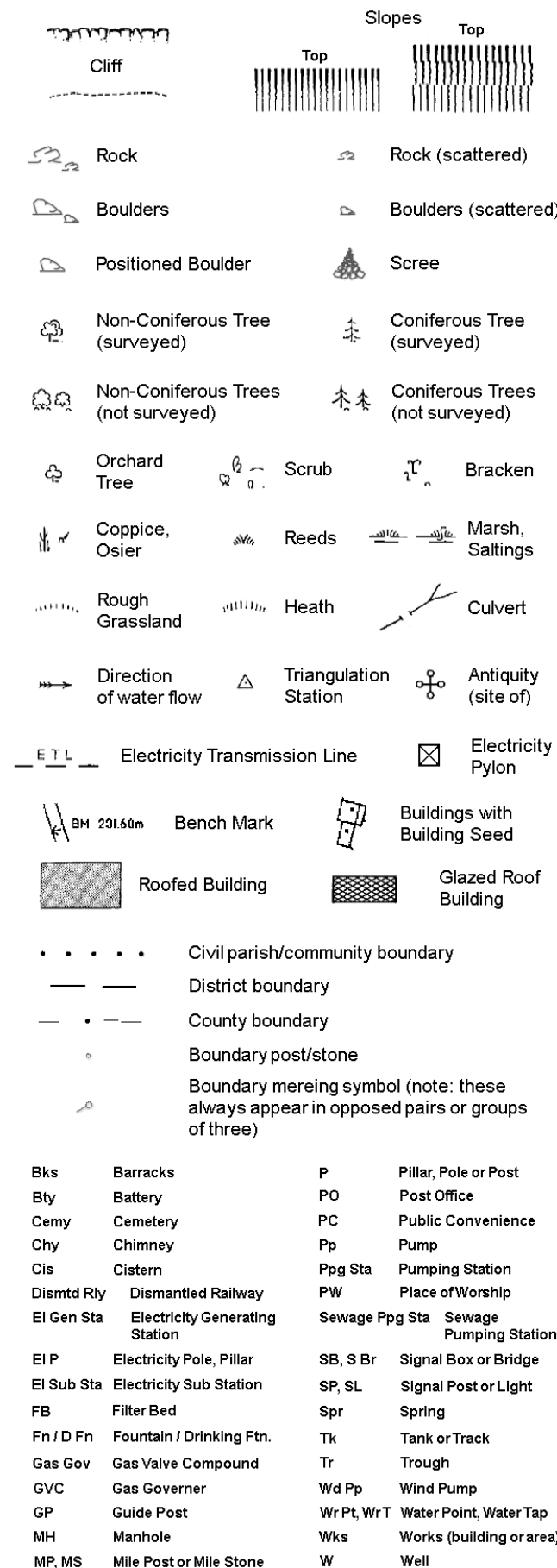
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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

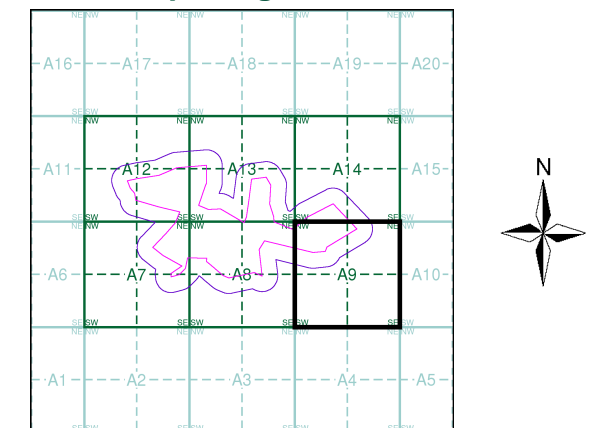


wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1879 - 1880	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1976	6
Additional SIMs	1:2,500	1978 - 1989	7
Additional SIMs	1:2,500	1989	8
Large-Scale National Grid Data	1:2,500	1993	9

Historical Map - Segment A9



Order Details

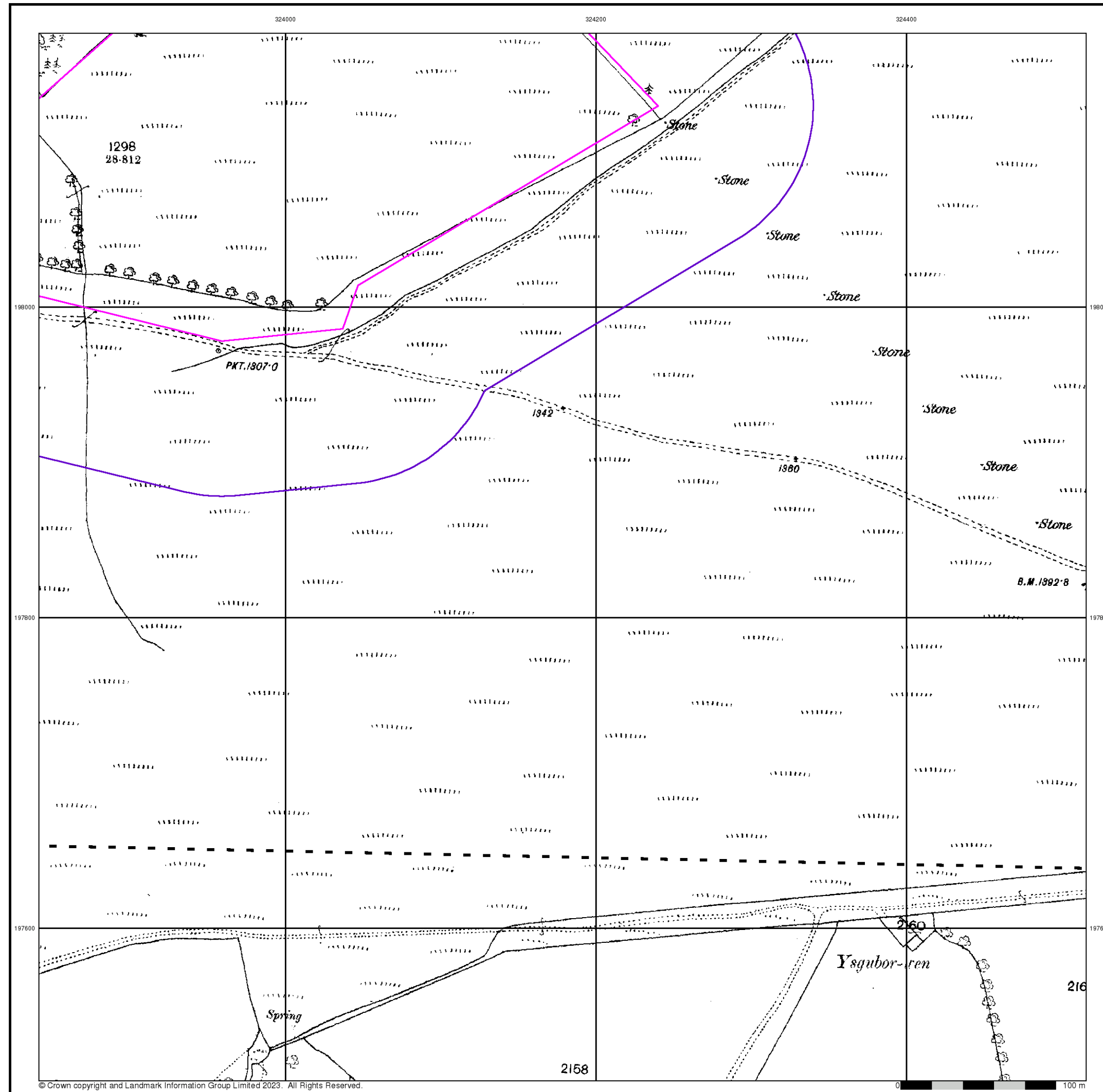
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

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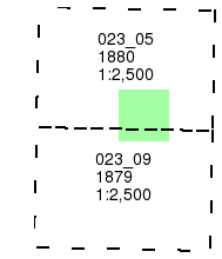
© Crown copyright and Landmark Information Group Limited 2023. All Rights Reserved. 0 100 m



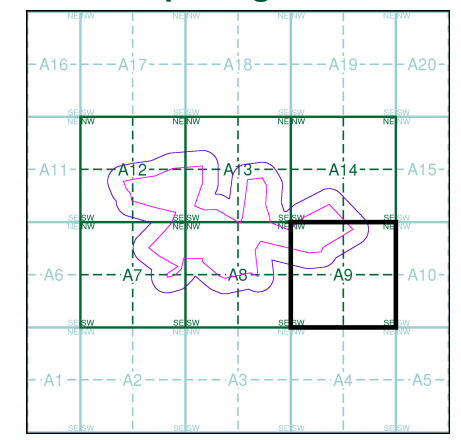
Monmouthshire
Published 1879 - 1880
Source map scale - 1:2,500

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 A9



Order Details	
Order Number:	315135944_1_1
Customer Ref:	21584994
National Grid Reference:	323460, 198180
Slice:	A
Site Area (Ha):	46.
Search Buffer (m):	100

Site Details
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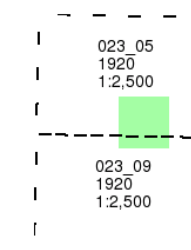
Monmouthshire

Published 1920

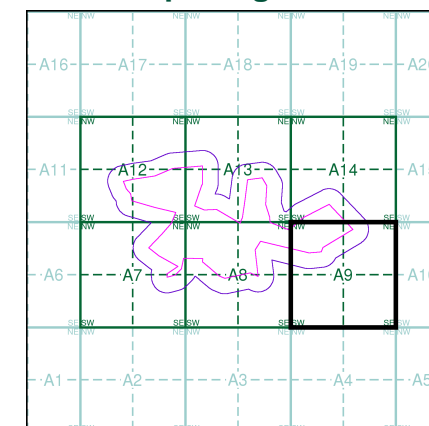
Source map scale - 1:2,500

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 A9



Order Details

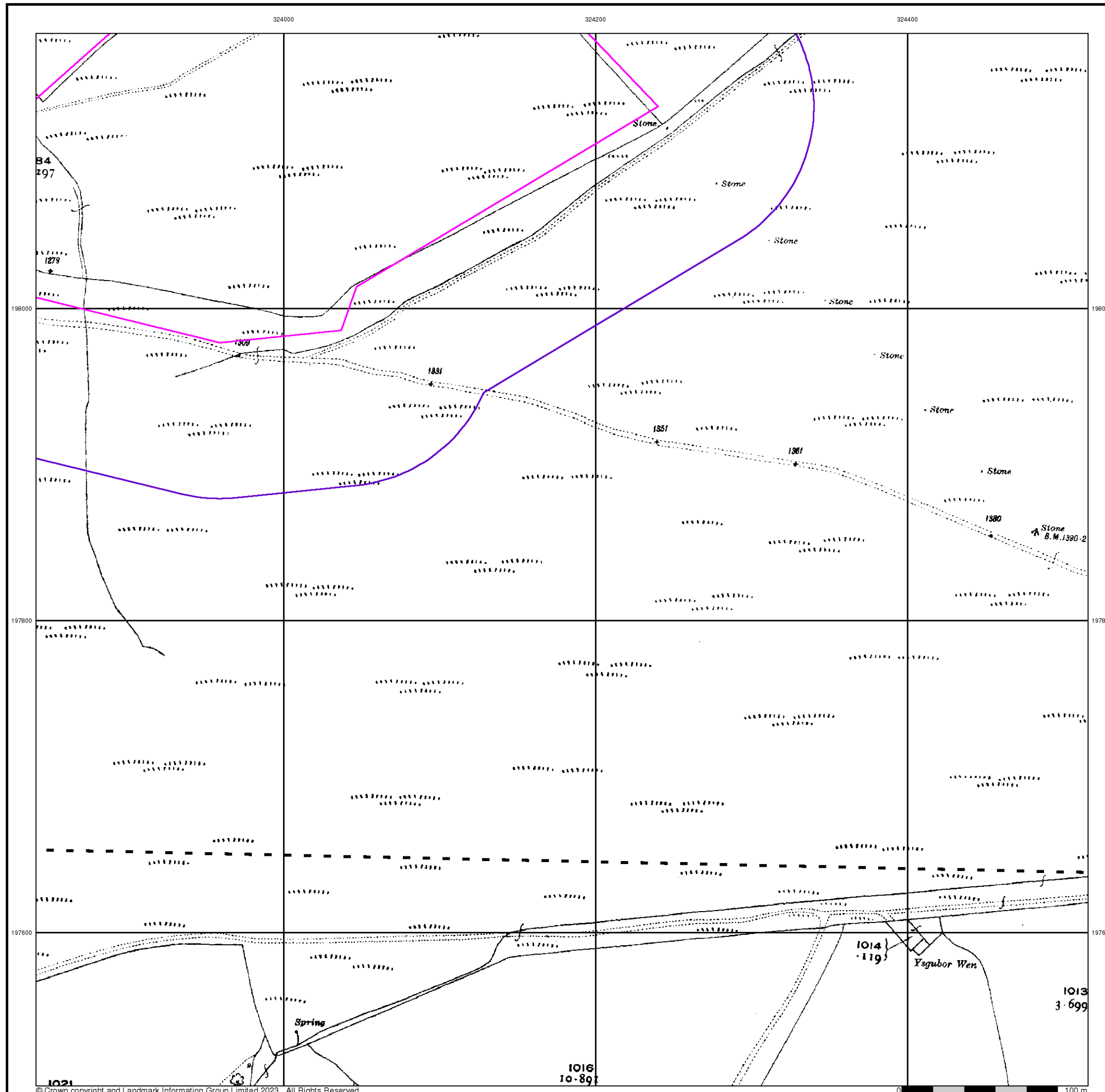
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1962

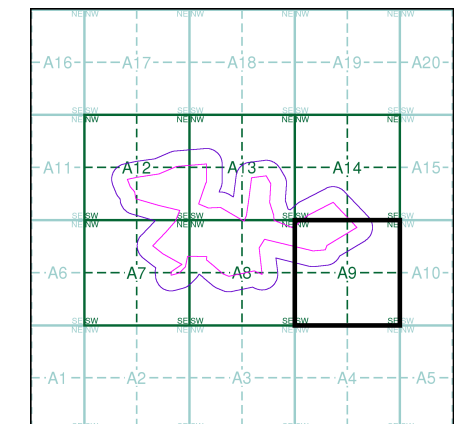
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST2398 1962 1:2,500	ST2498 1962 1:2,500
ST2397 1962 1:2,500	ST2497 1962 1:2,500

Historical Map - Segment A9



Order Details

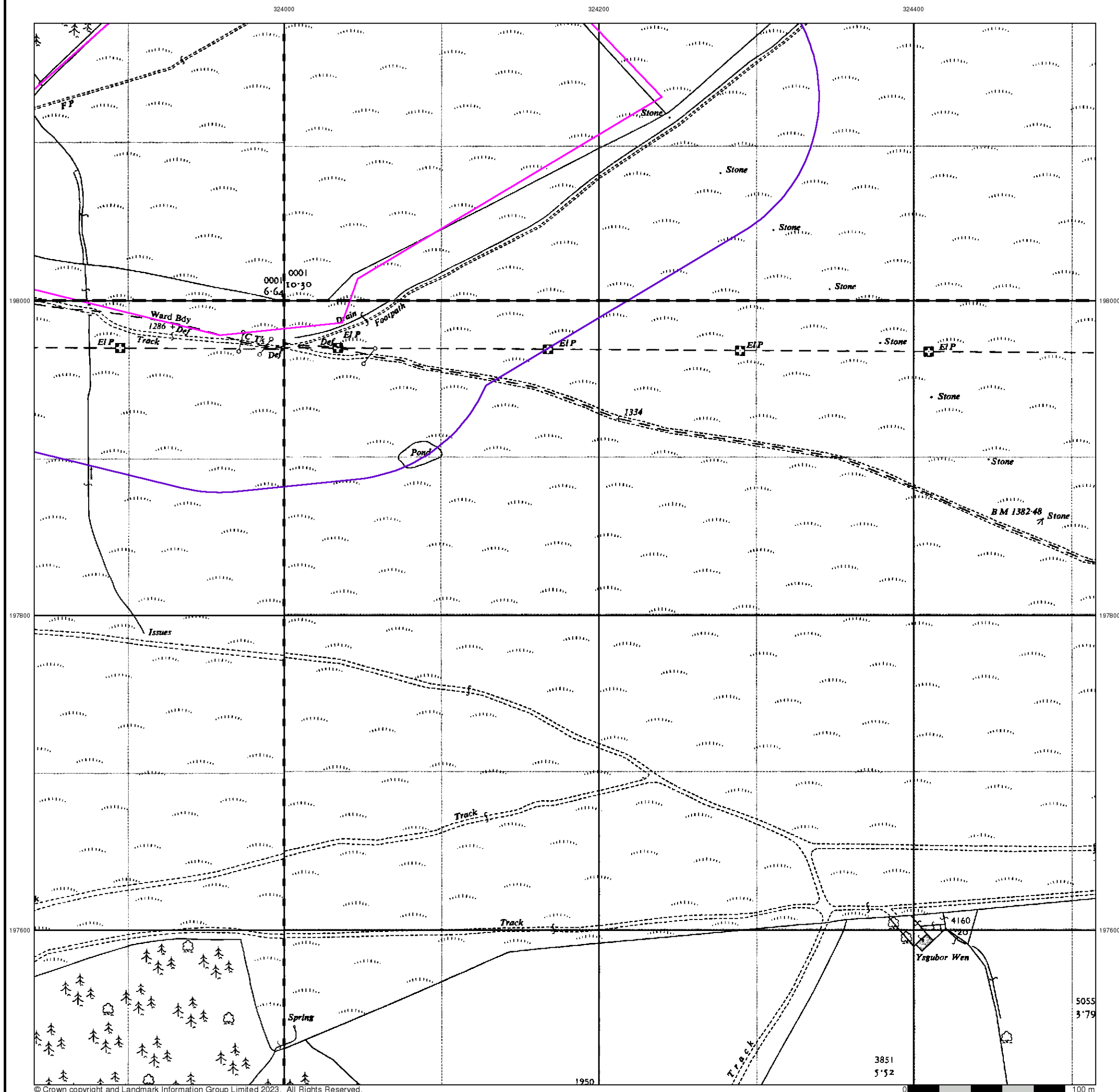
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Site Area (Ha): 46.
Search Buffer (m): 100

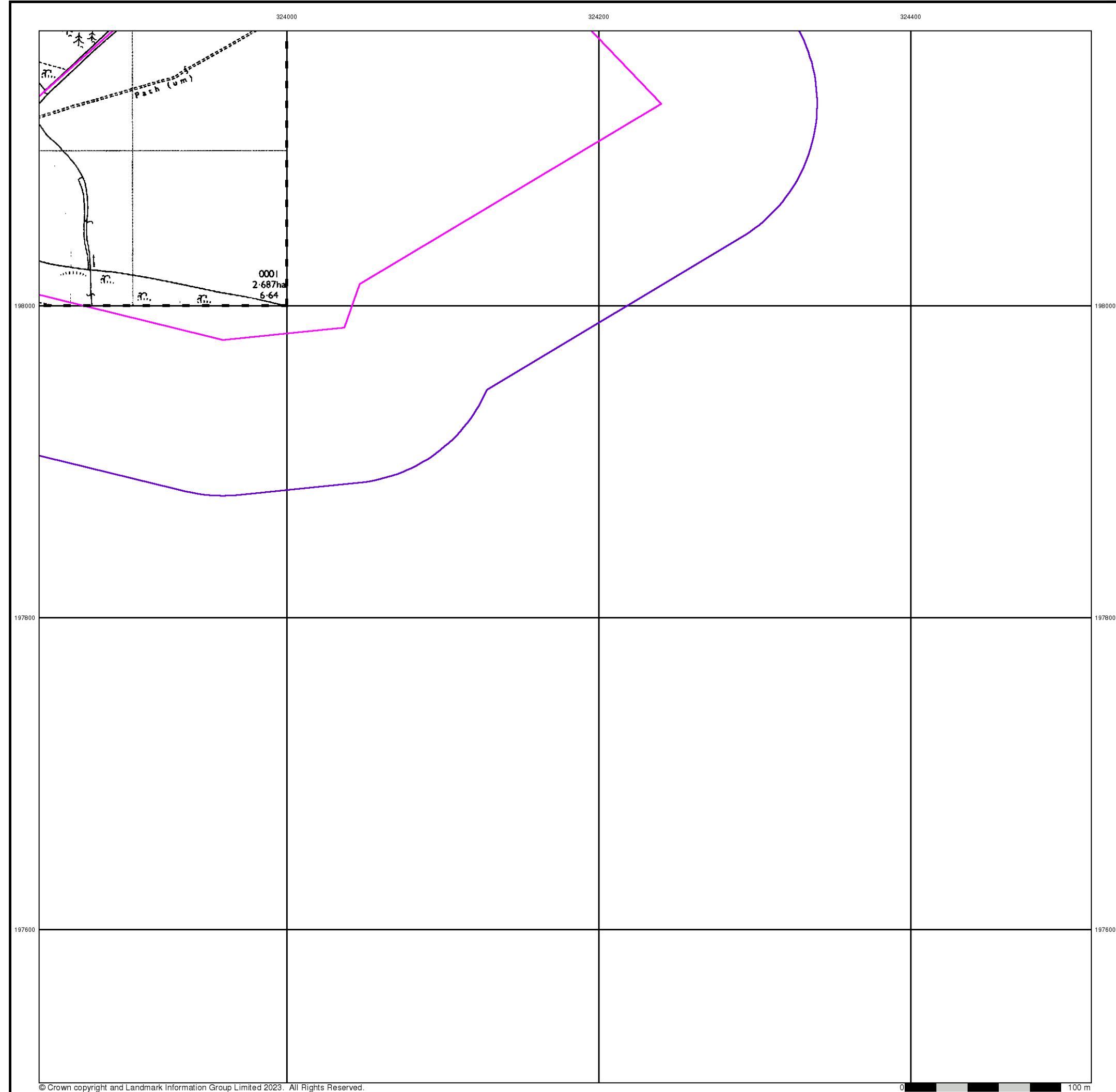
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wood.

Ordnance Survey Plan

Published 1976

Source map scale - 1:2,500

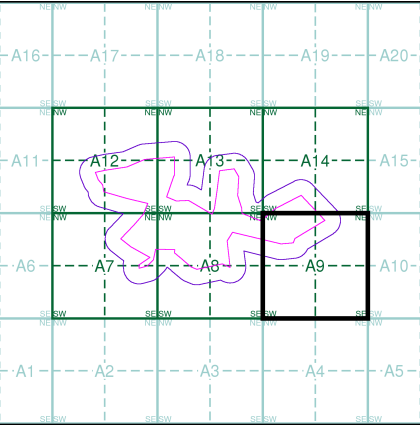
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

ST2398
1976
1:2,500



Historical Map - Segment A9



Order Details

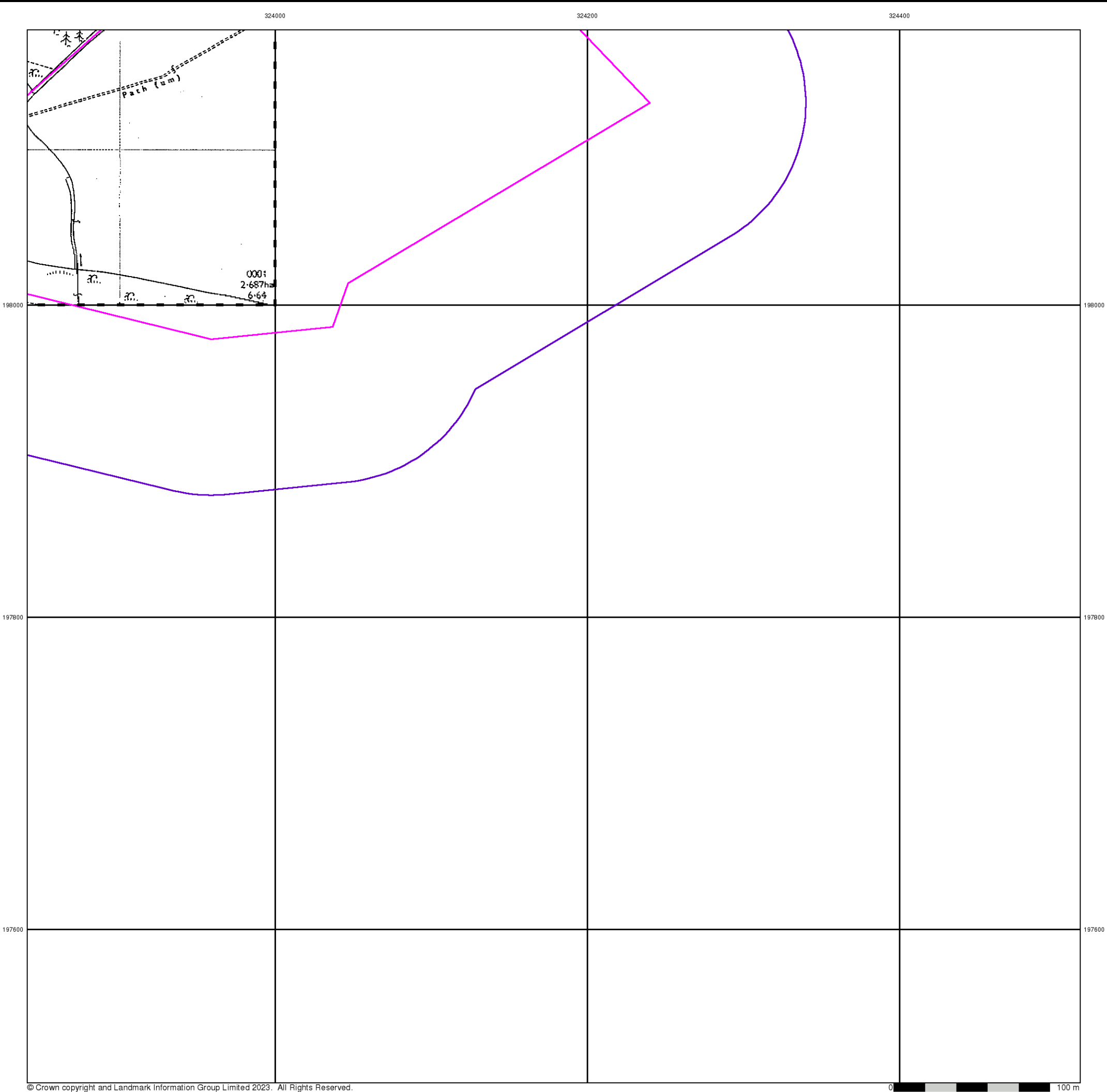
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Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

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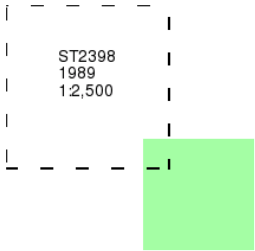
Additional SIMs

Published 1989

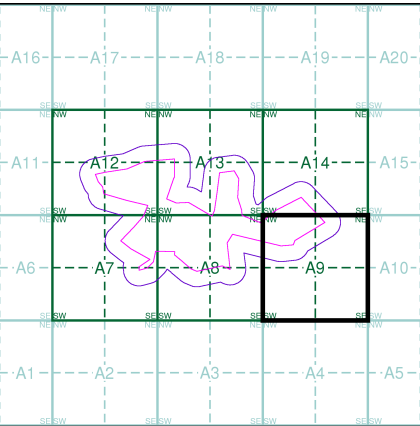
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A9



Order Details

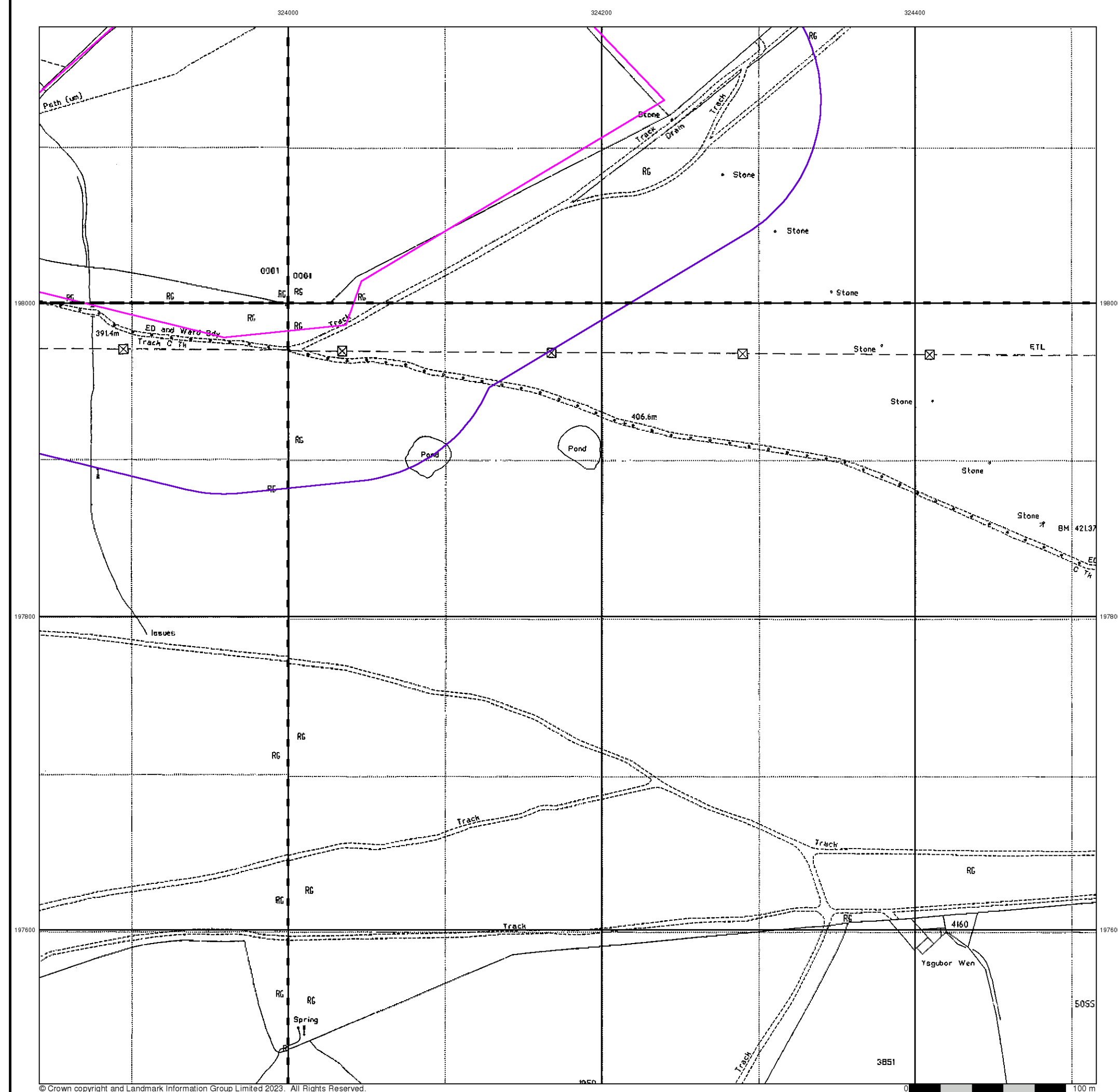
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Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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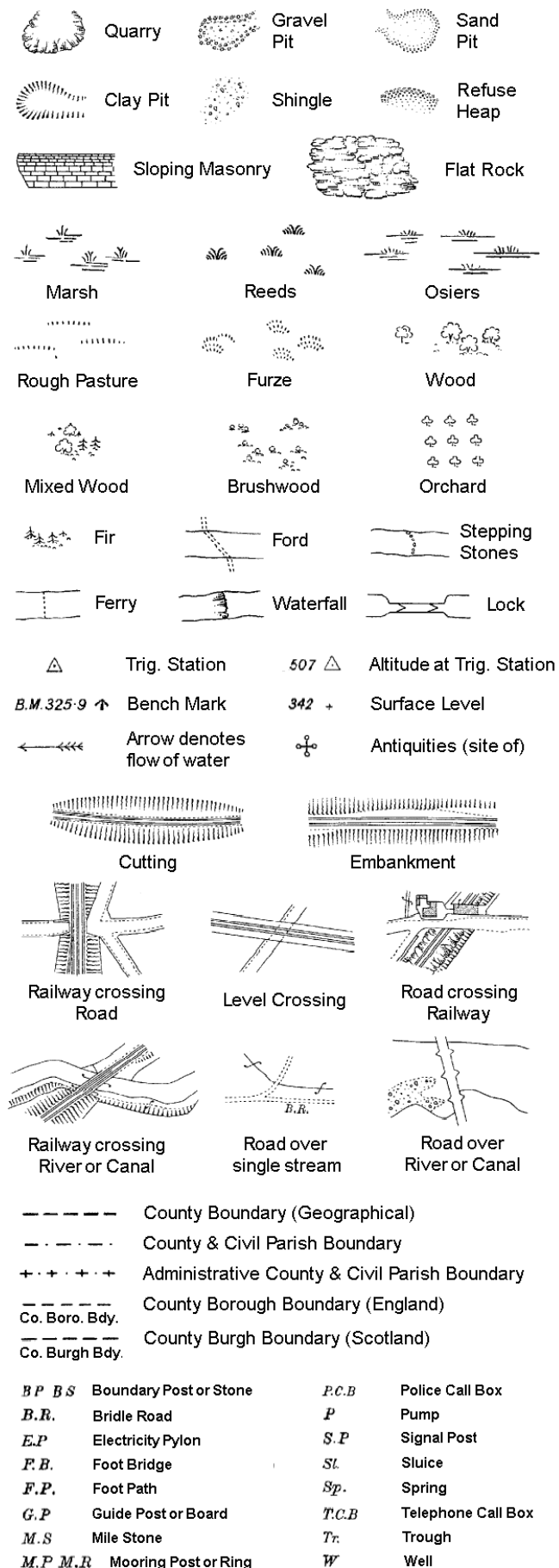
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Historical Mapping Legends

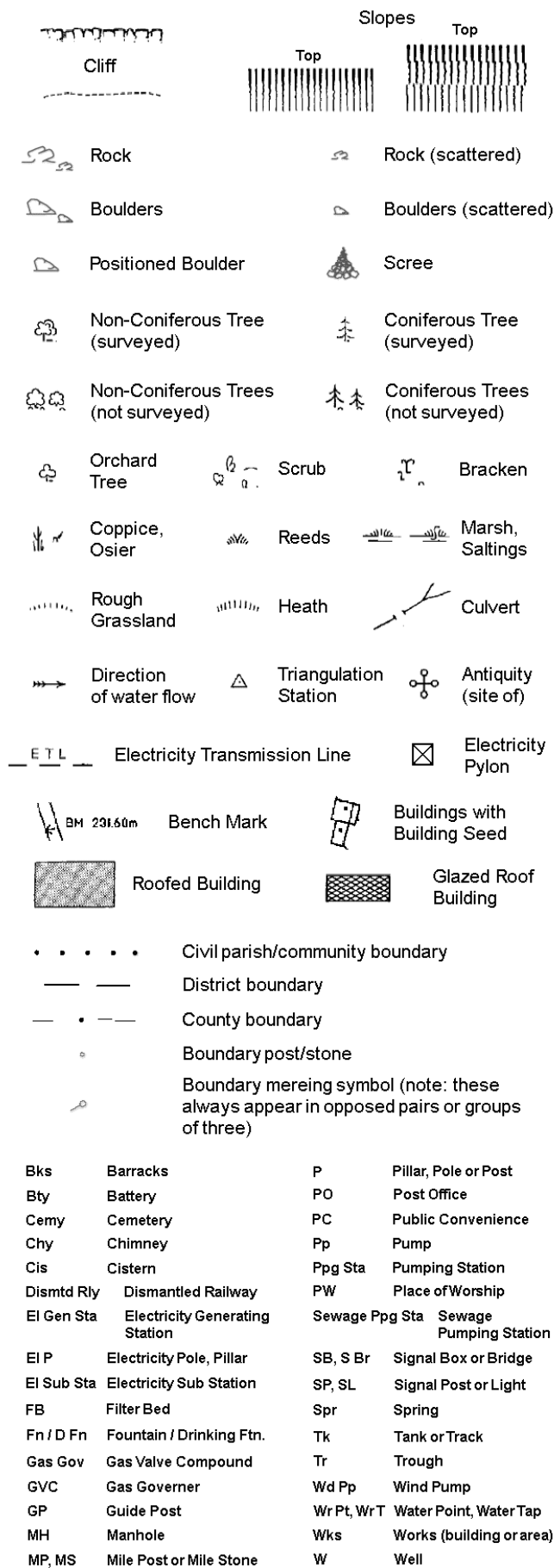
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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

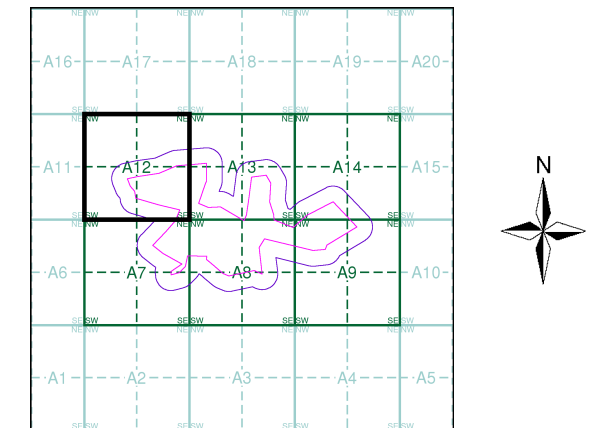


wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1880	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1976	6
Additional SIMs	1:2,500	1978 - 1989	7
Additional SIMs	1:2,500	1989	8
Large-Scale National Grid Data	1:2,500	1993	9

Historical Map - Segment A12



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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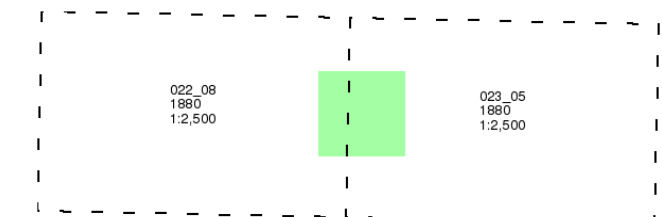
Monmouthshire

Published 1880

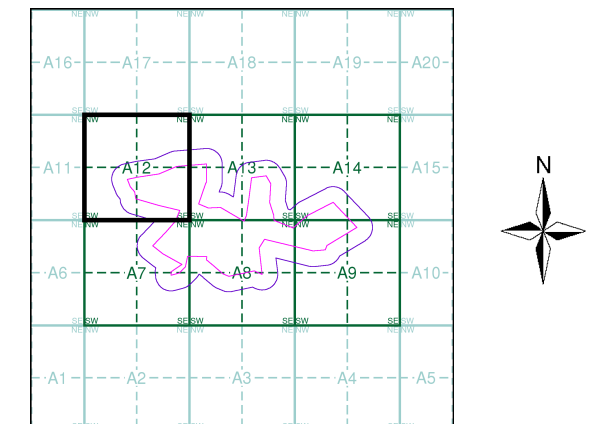
Source map scale - 1:2,500

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 A12



Order Details

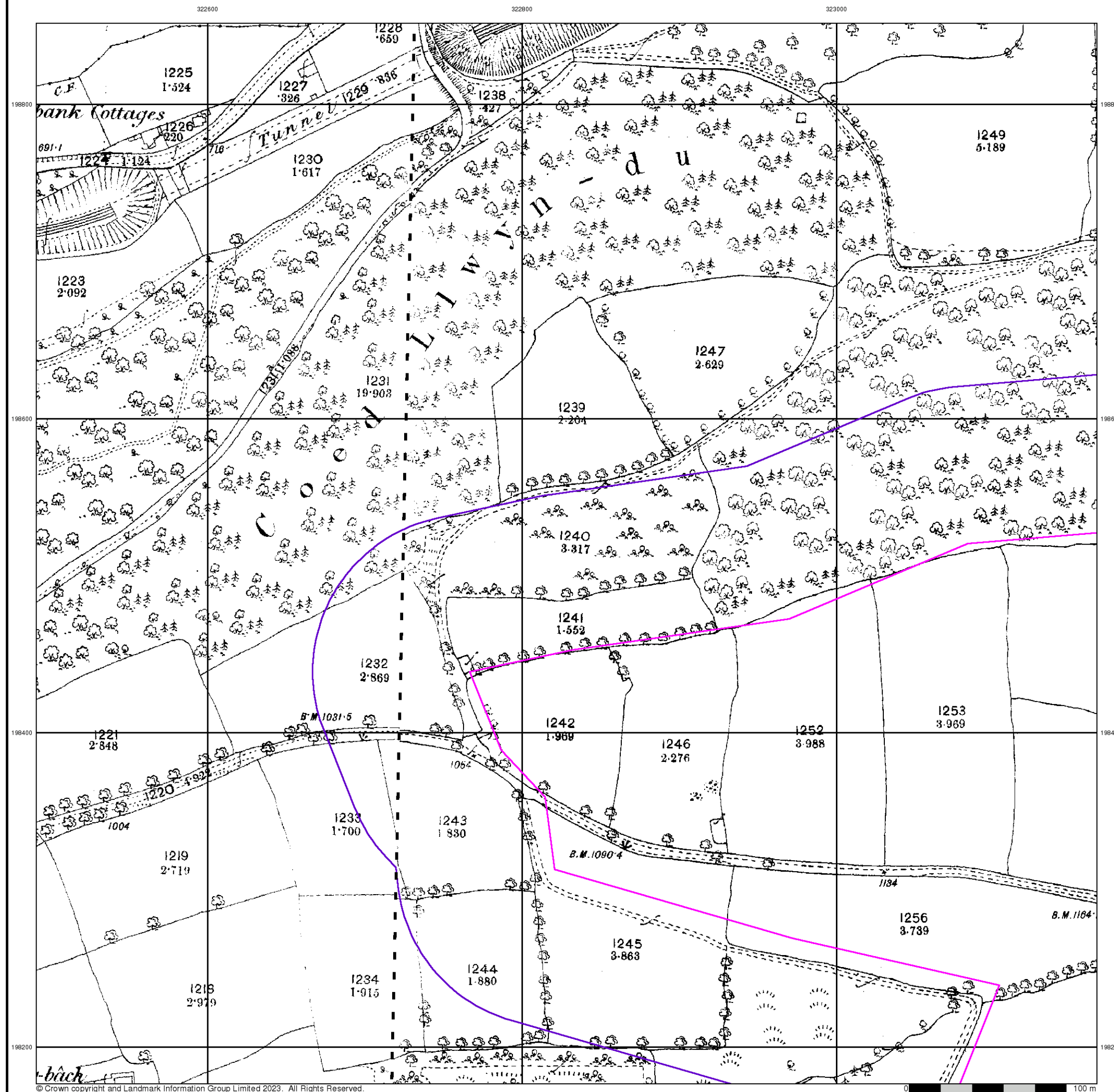
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Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

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wood.

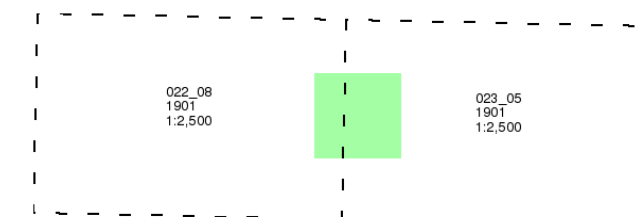
Monmouthshire

Published 1901

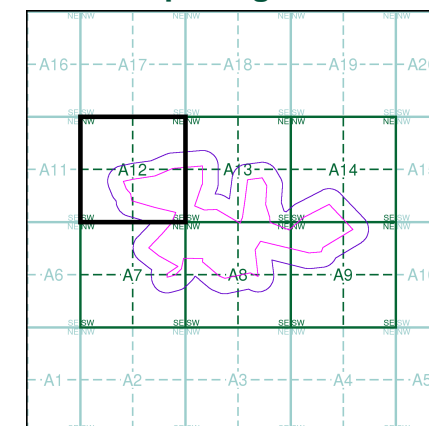
Source map scale - 1:2,500

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 A12



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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wood.

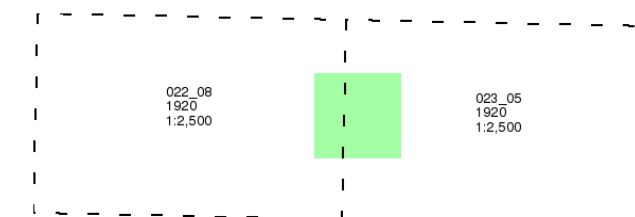
Monmouthshire

Published 1920

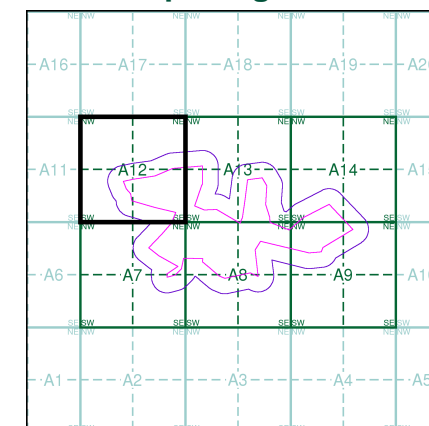
Source map scale - 1:2,500

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 A12



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site

Landmark
INFORMATION GROUP

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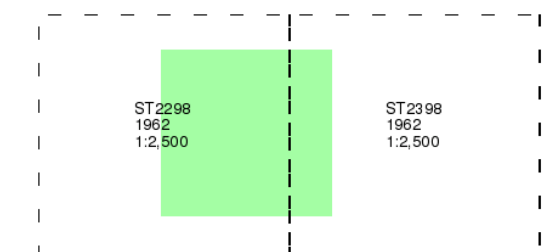
Ordnance Survey Plan

Published 1962

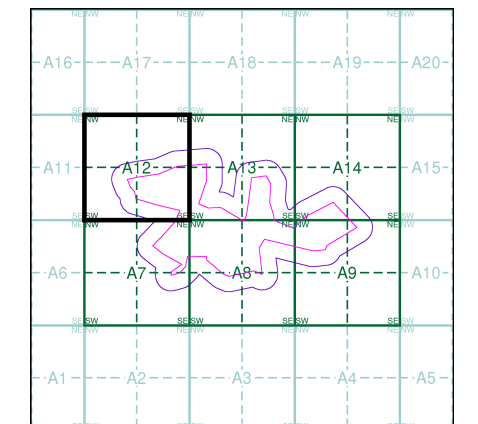
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

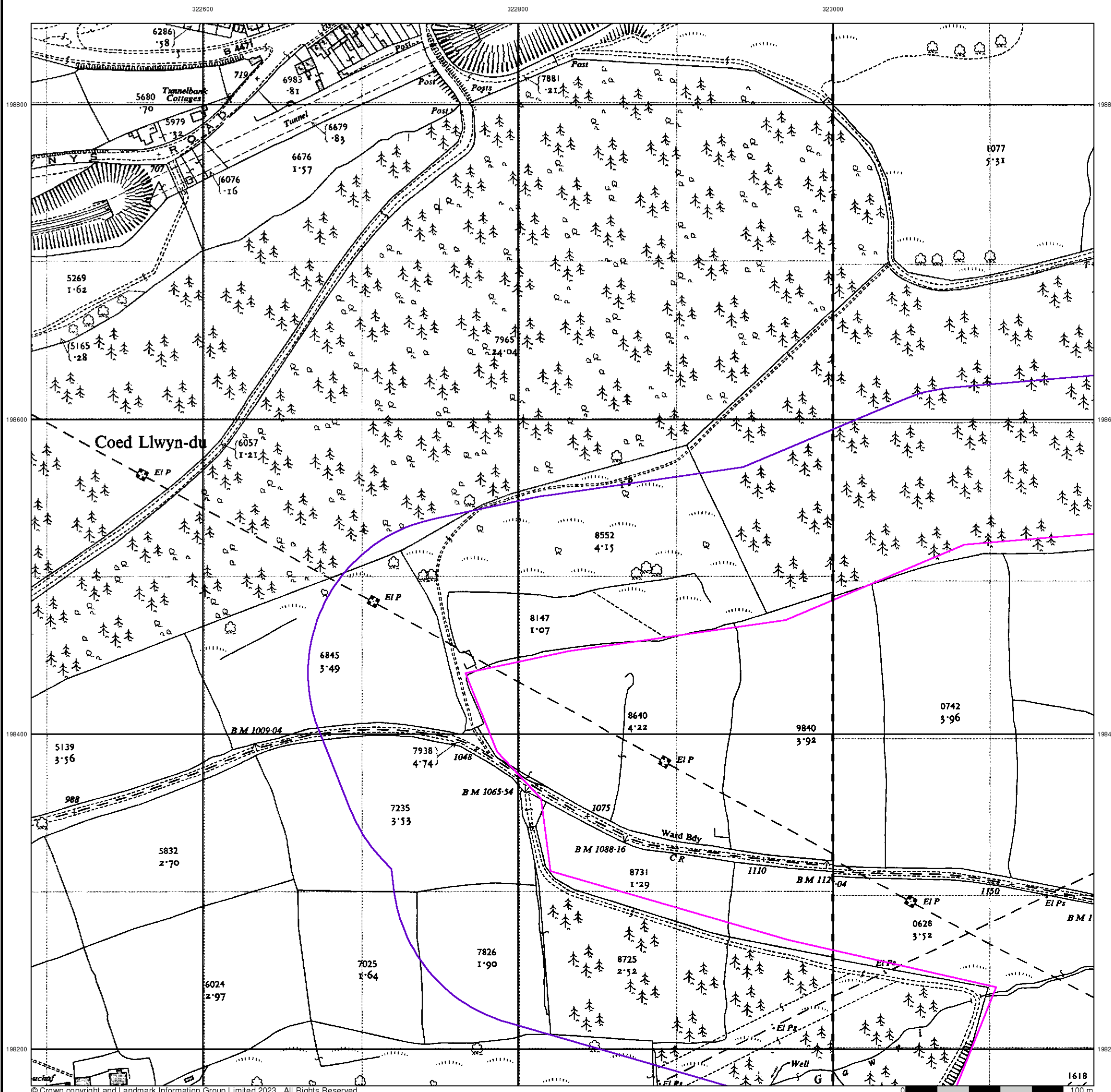
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Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site



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wood.

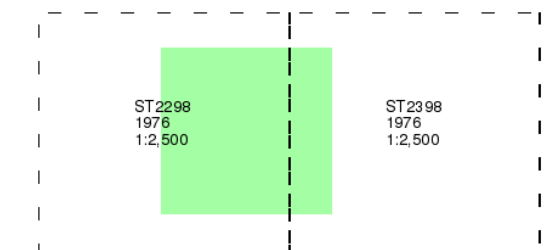
Ordnance Survey Plan

Published 1976

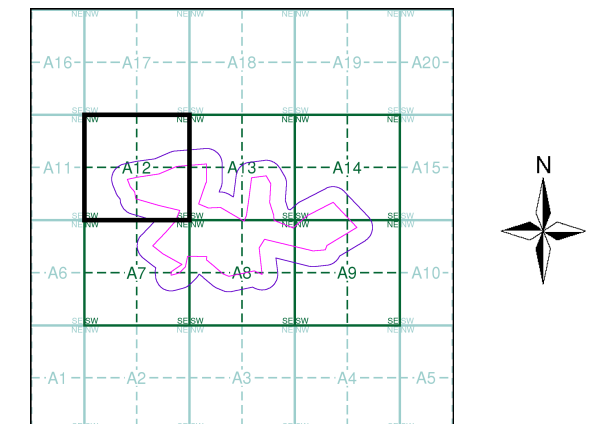
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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 A12



Order Details

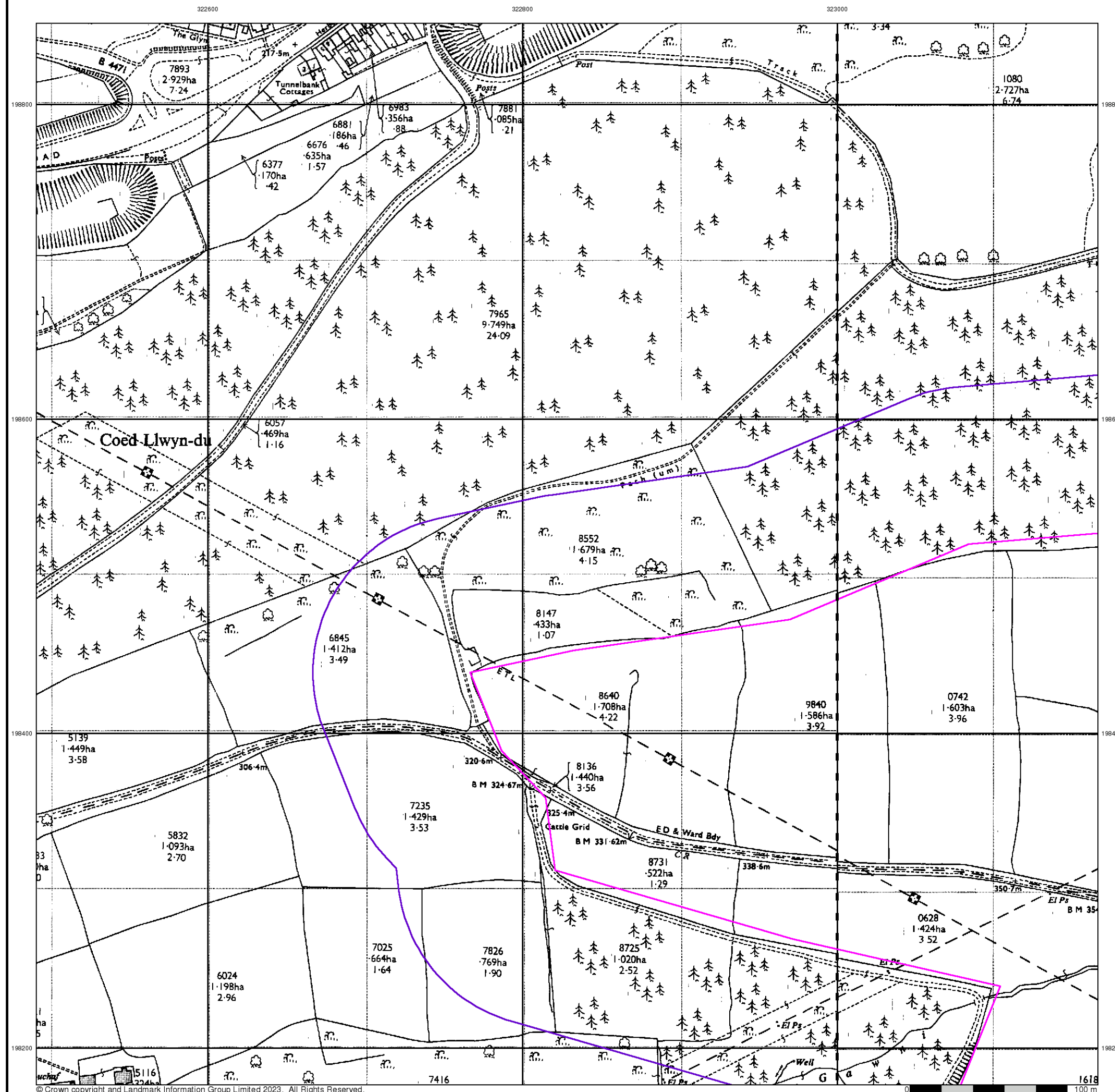
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Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

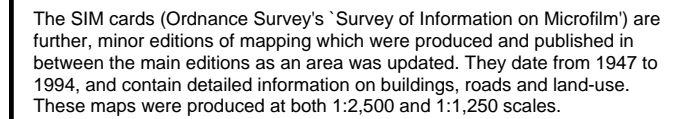
Site Details

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ST2298
1989
1:2,500

ST2398
1978
1:2,500

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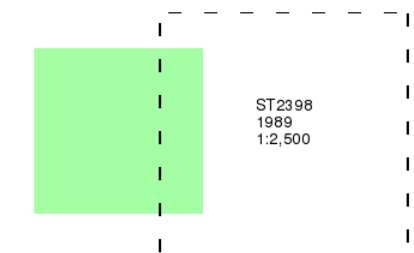
Additional SIMs

Published 1989

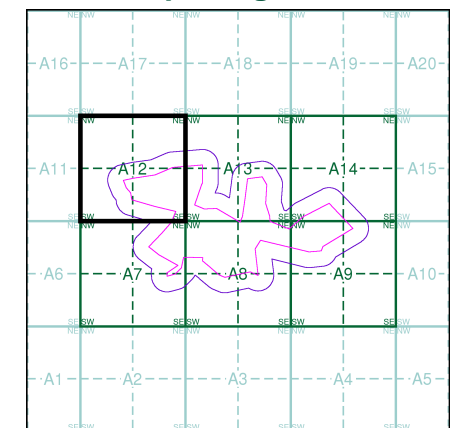
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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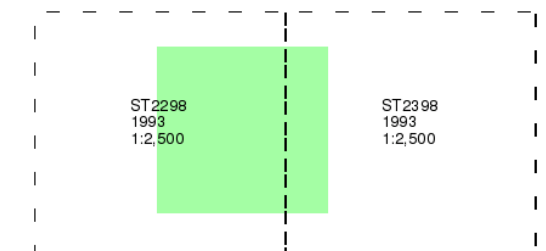
Large-Scale National Grid Data

Published 1993

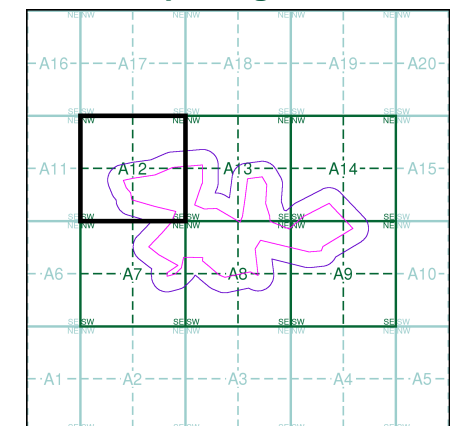
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

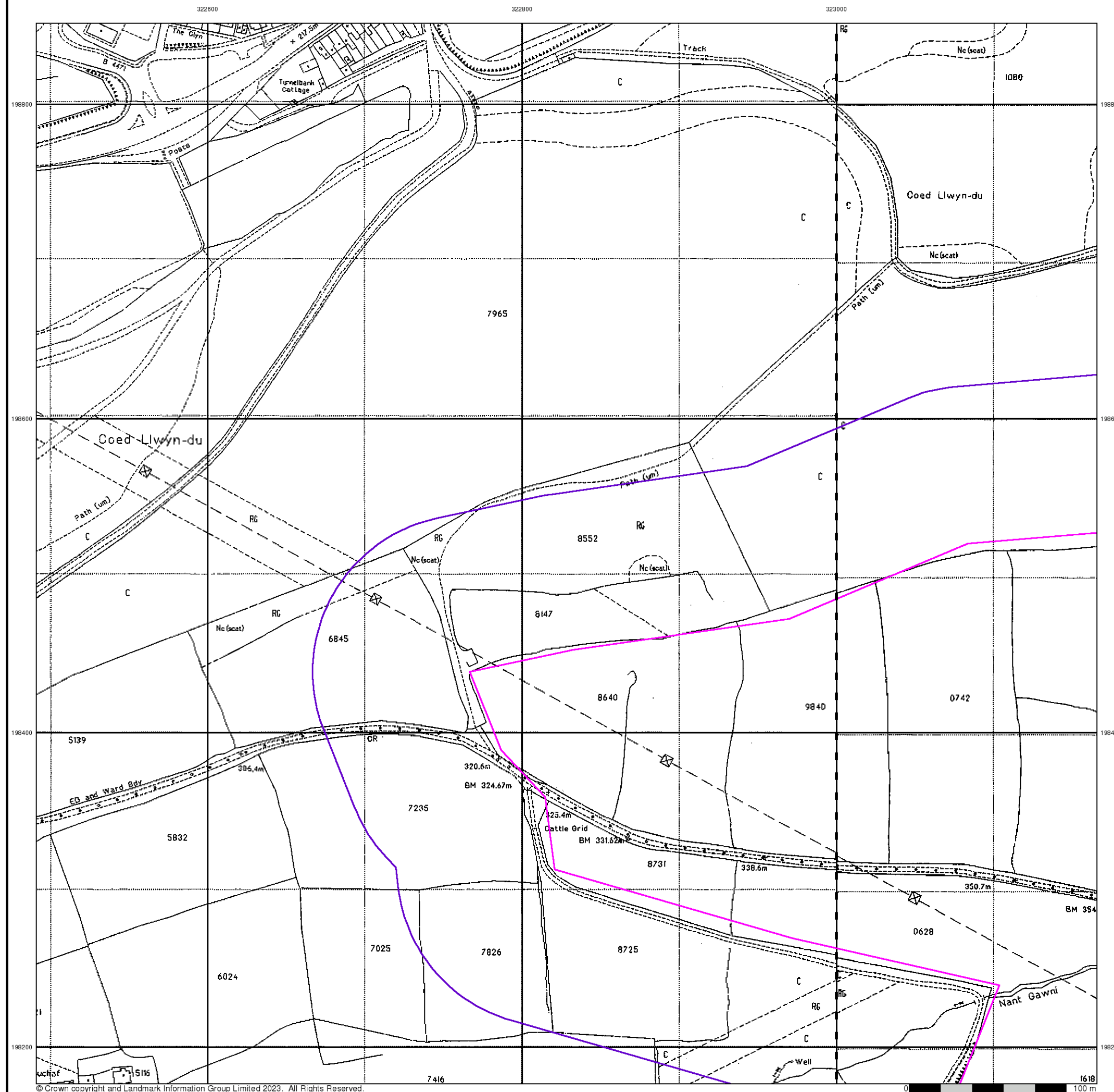
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Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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Historical Mapping Legends

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



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



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

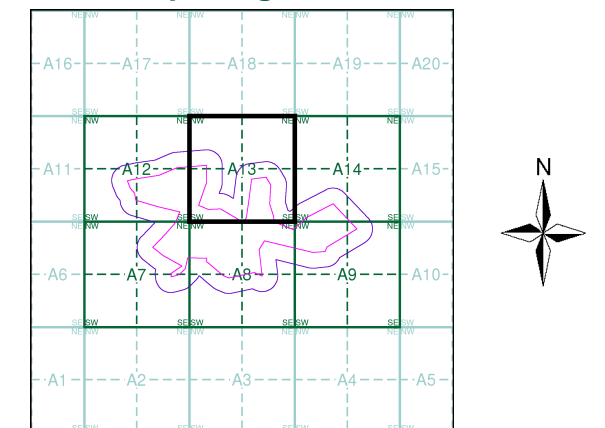


wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1880	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1976	6
Additional SIMs	1:2,500	1978	7
Additional SIMs	1:2,500	1989	8
Large-Scale National Grid Data	1:2,500	1993	9

Historical Map - Segment A13



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site

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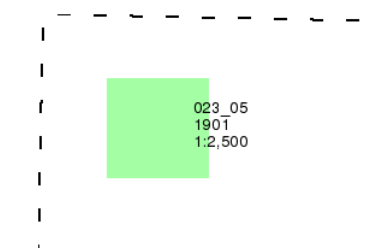
Monmouthshire

Published 1901

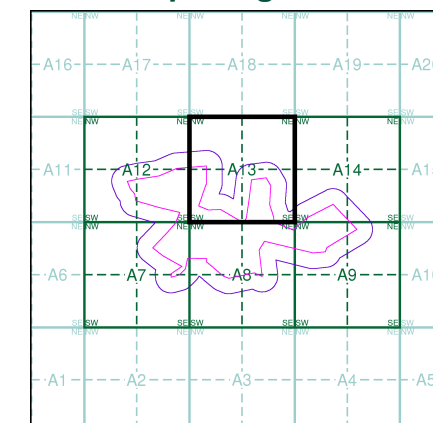
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

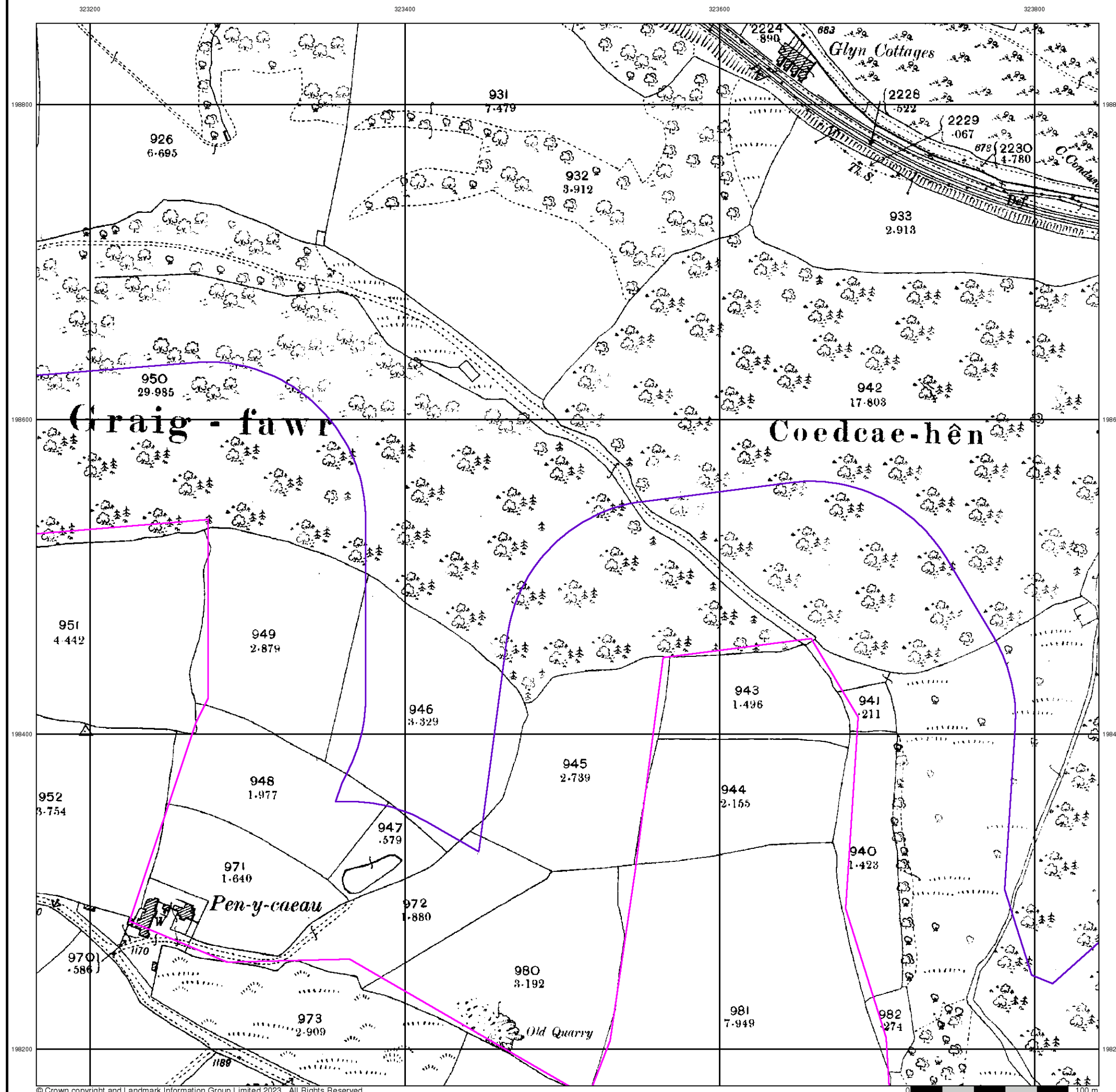
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Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

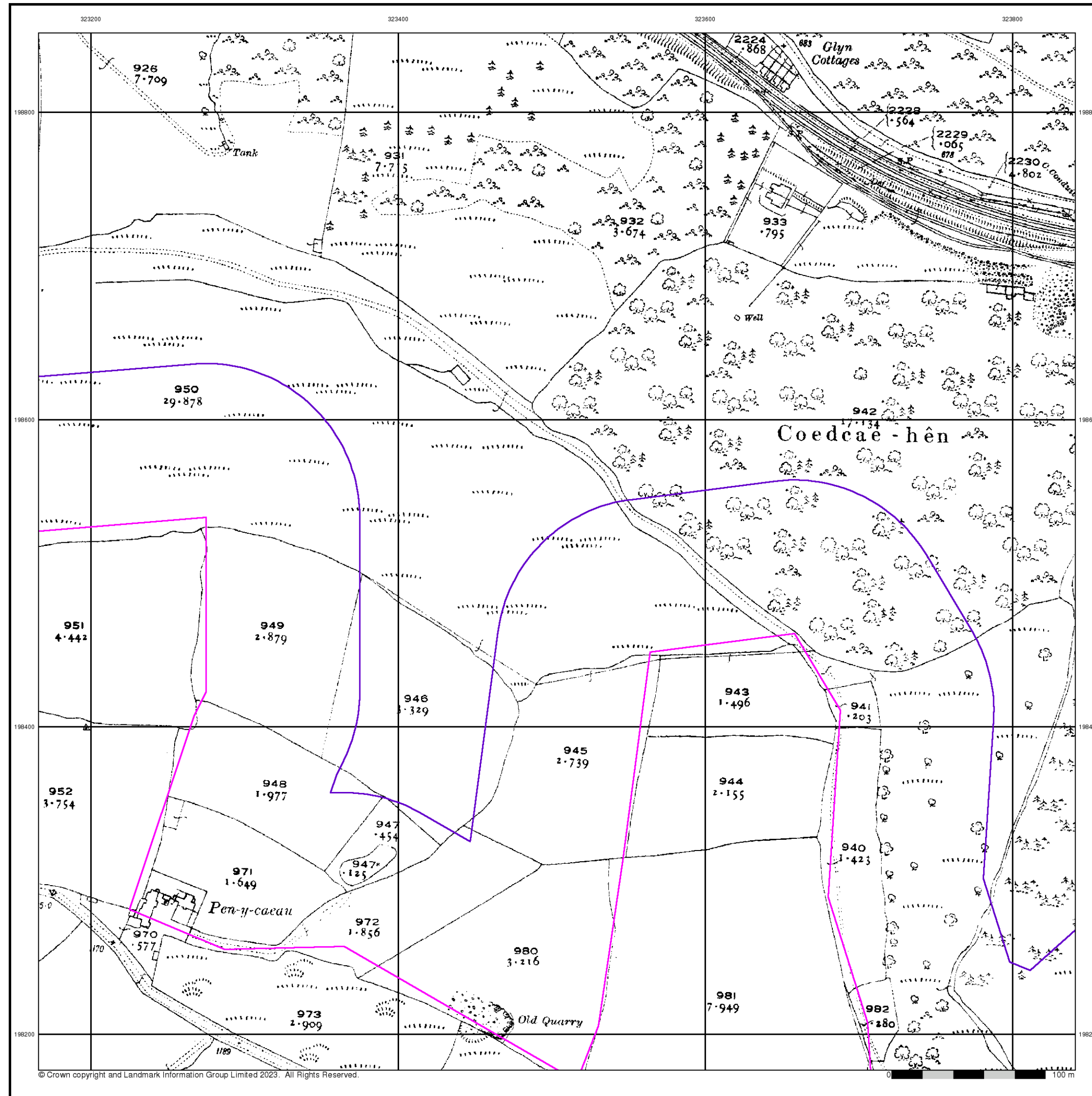
Site Details

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wood.

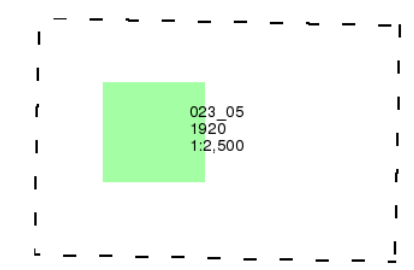
Monmouthshire

Published 1920

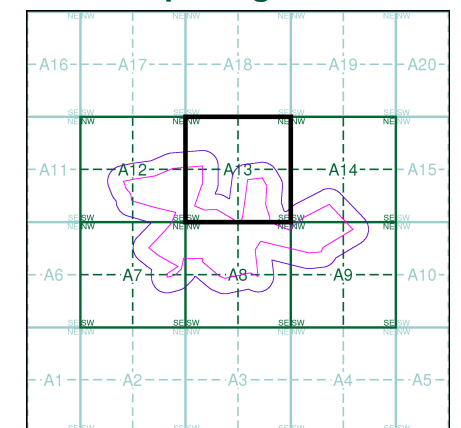
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site

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wood.

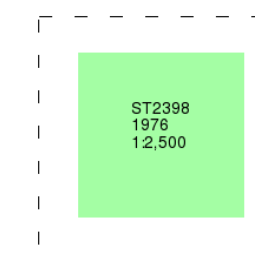
Ordnance Survey Plan

Published 1976

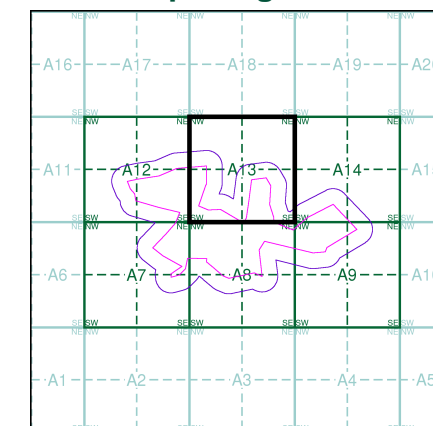
Source map scale - 1:2,500

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 A13



Order Details

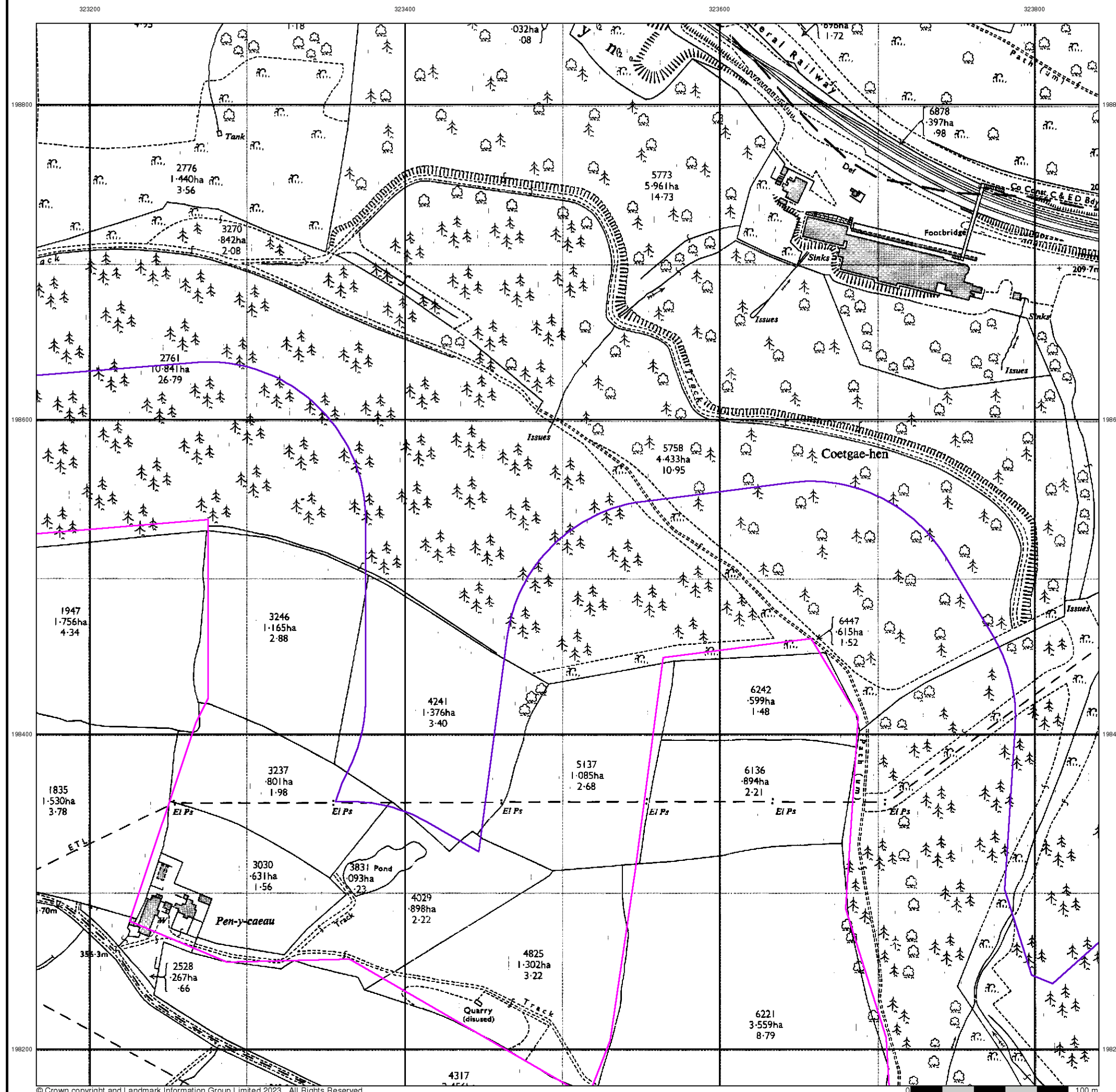
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site

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wood.

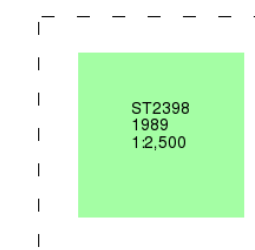
Additional SIMs

Published 1989

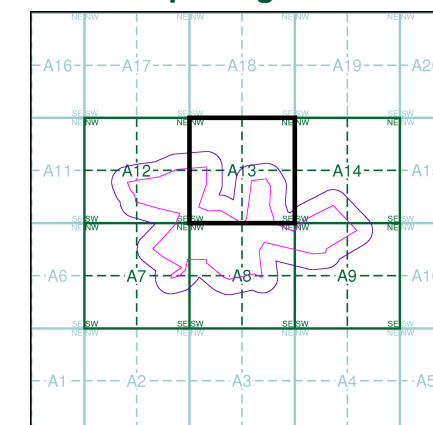
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

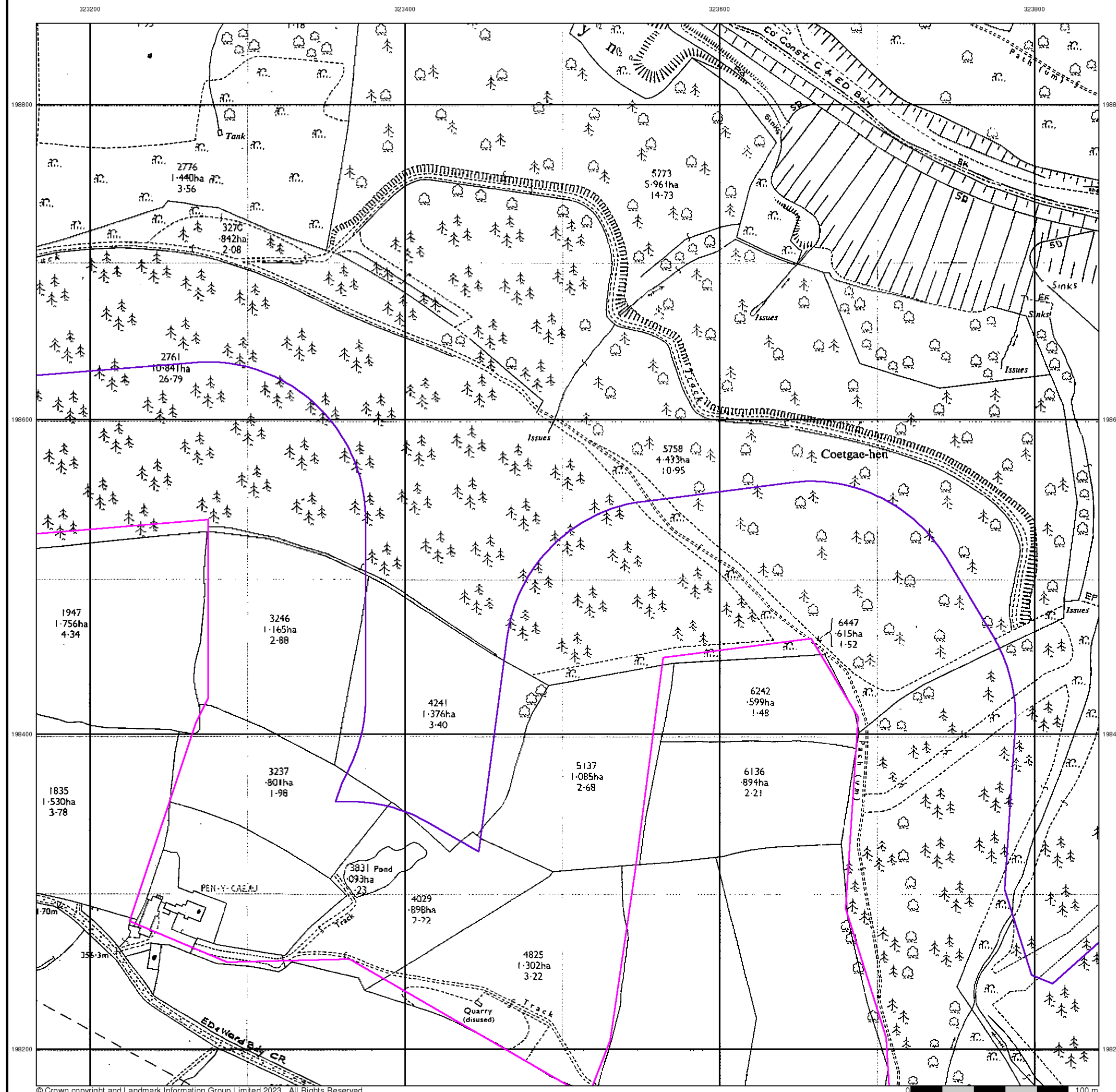
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

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Historical Mapping Legends

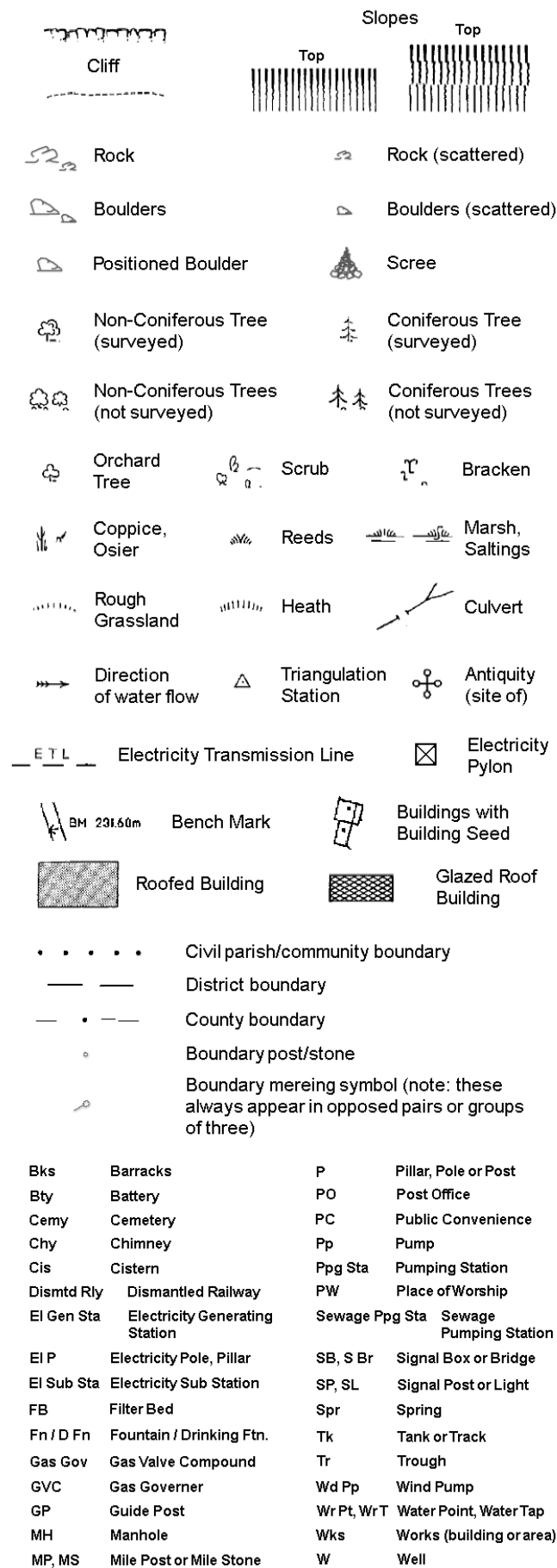
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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

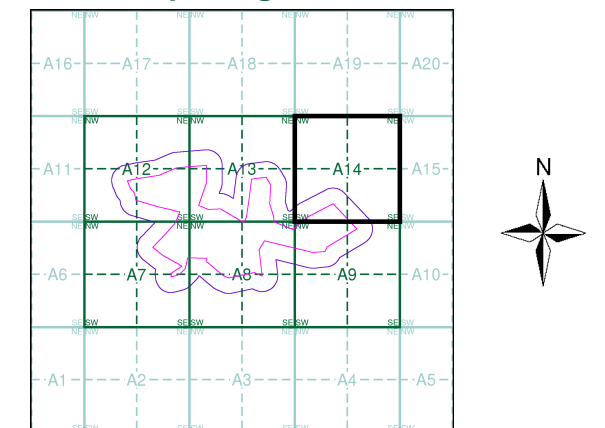


wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1880	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1976	6
Additional SIMs	1:2,500	1978 - 1989	7
Additional SIMs	1:2,500	1989	8
Large-Scale National Grid Data	1:2,500	1993	9

Historical Map - Segment A14



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site

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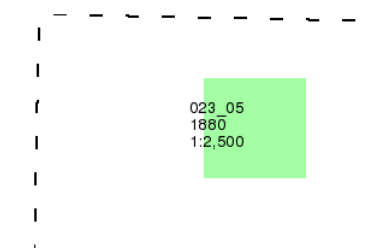
Monmouthshire

Published 1880

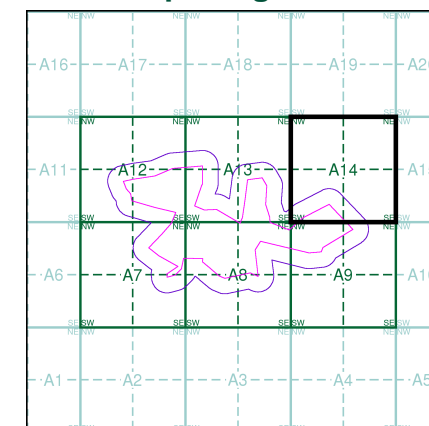
Source map scale - 1:2,500

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 A14



Order Details

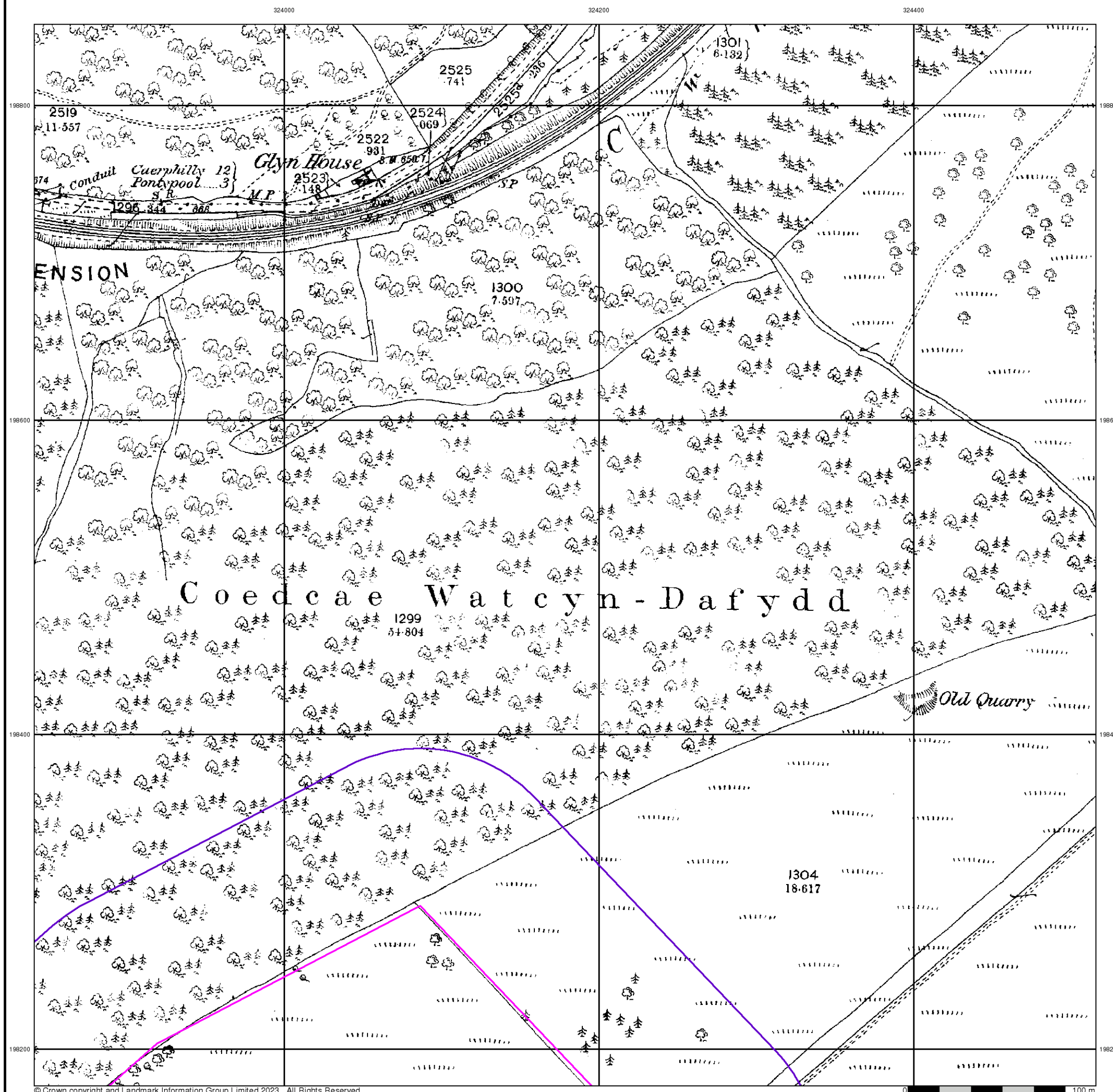
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Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site

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wood.

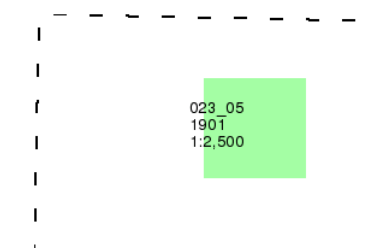
Monmouthshire

Published 1901

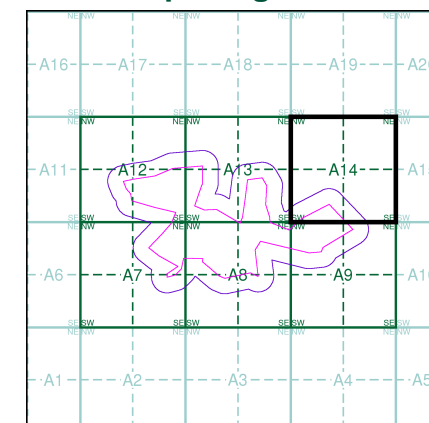
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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 A14



Order Details

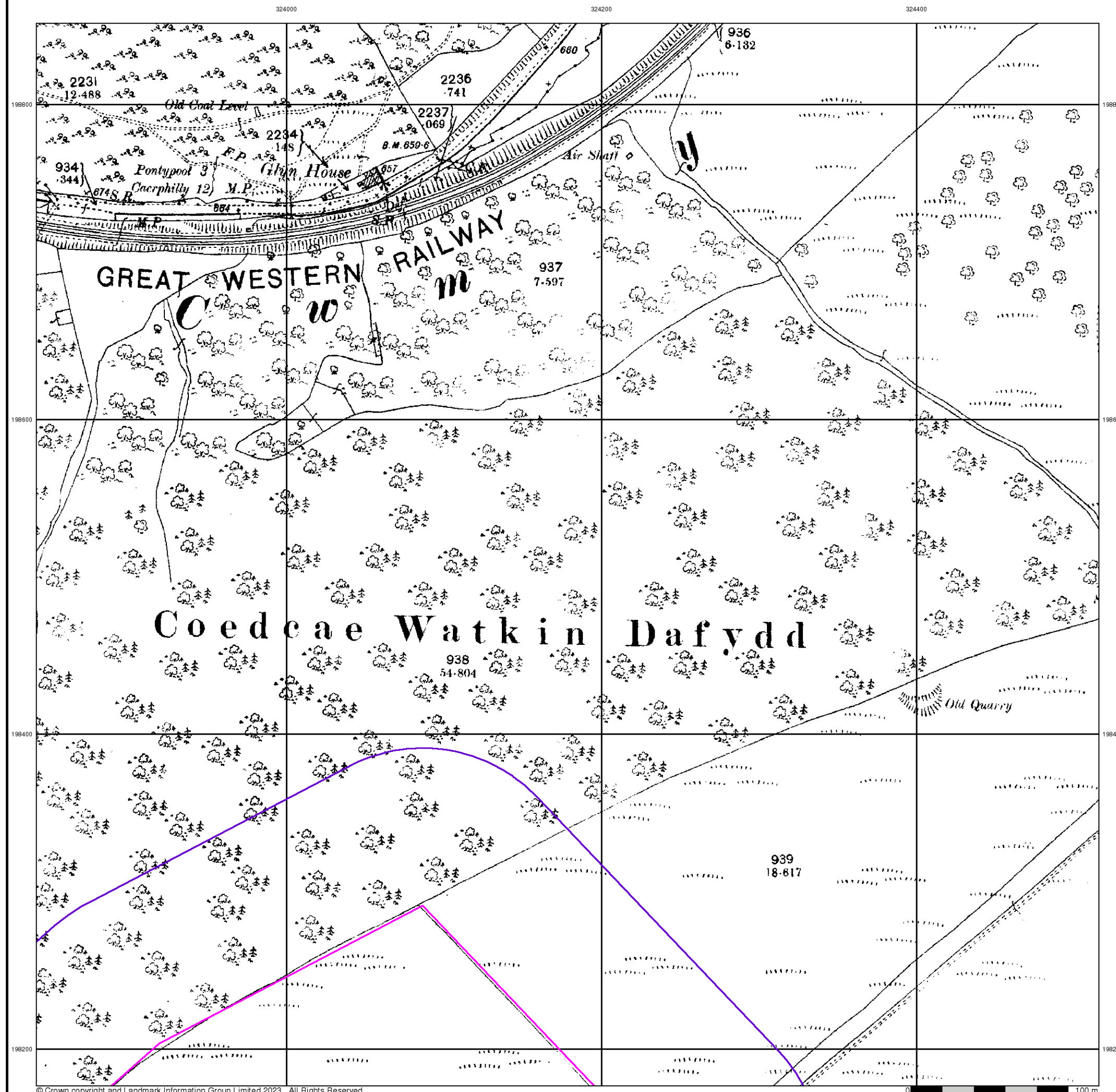
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site

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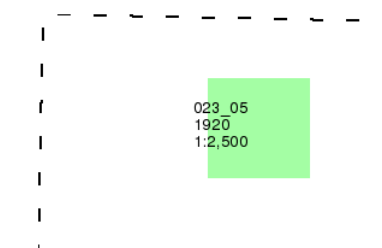
Monmouthshire

Published 1920

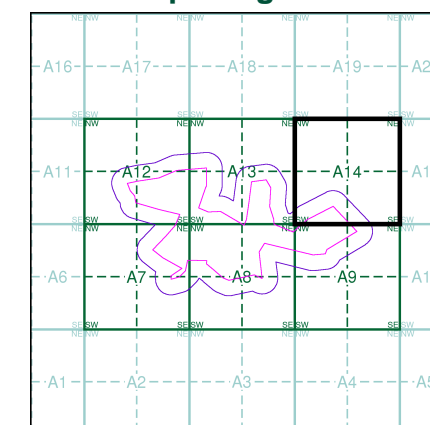
Source map scale - 1:2,500

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 A14



Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
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Site Details

Trecelyn North Site

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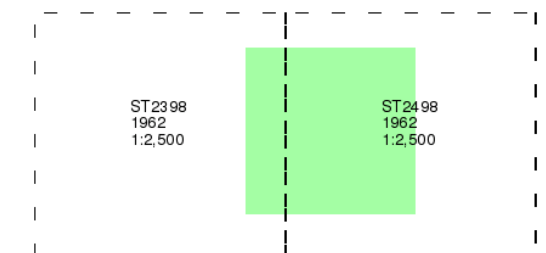
Ordnance Survey Plan

Published 1962

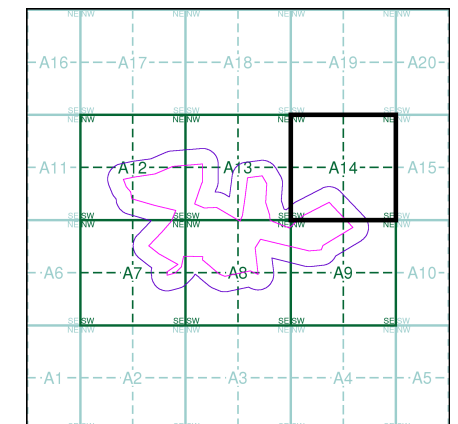
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

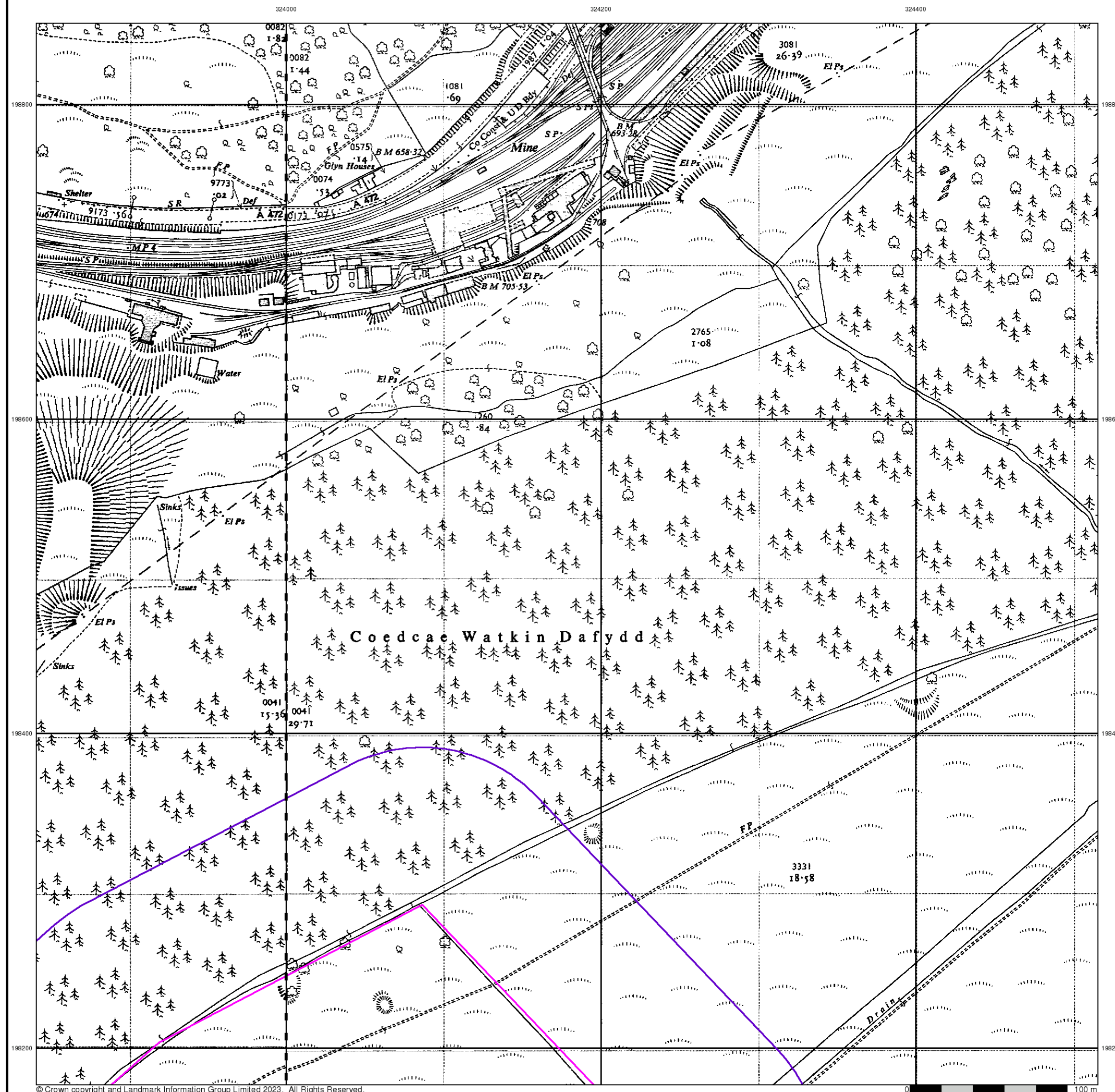
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

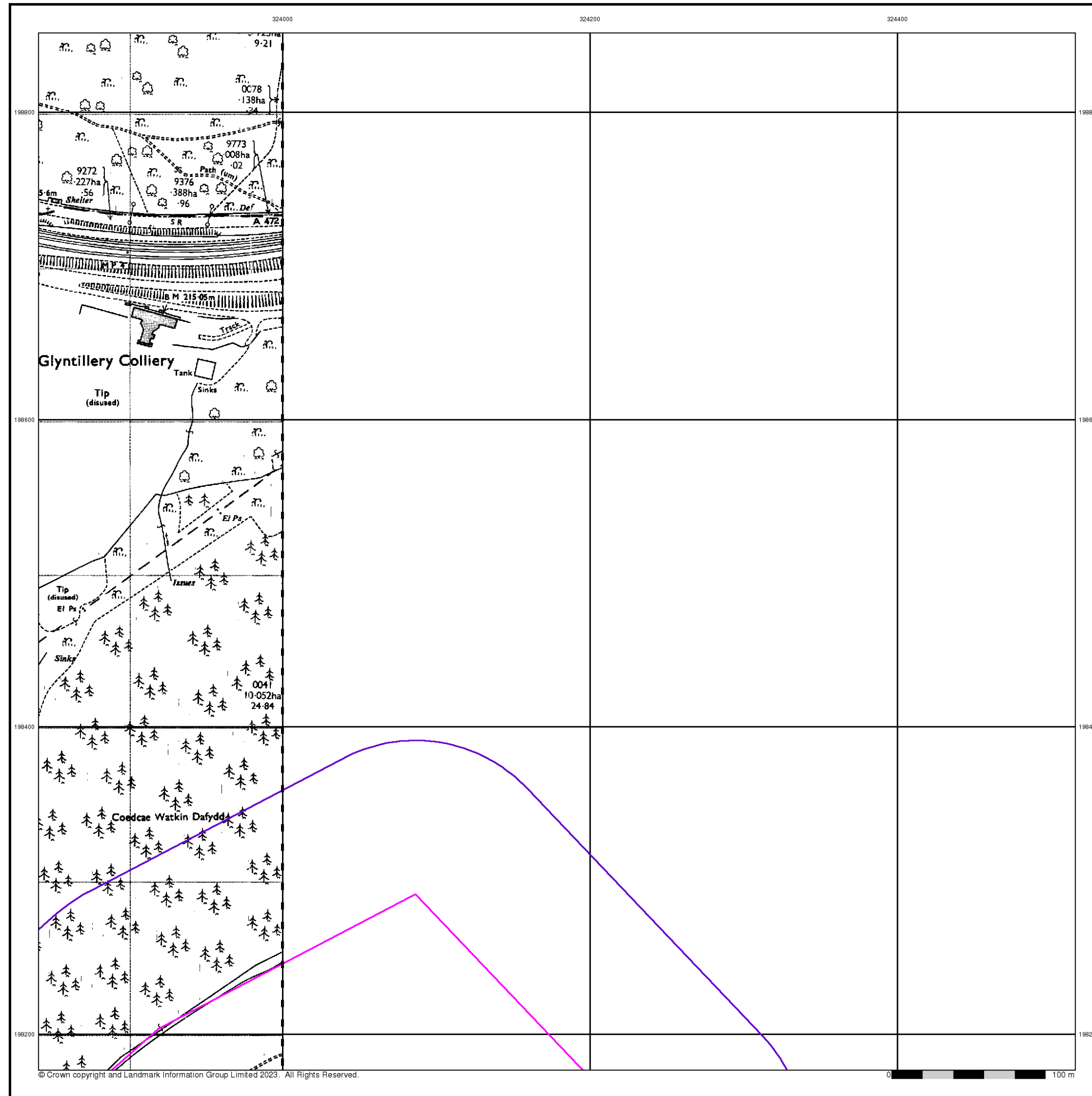
Site Details

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INFORMATION GROUP

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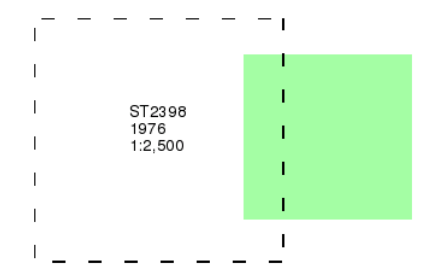
Ordnance Survey Plan

Published 1976

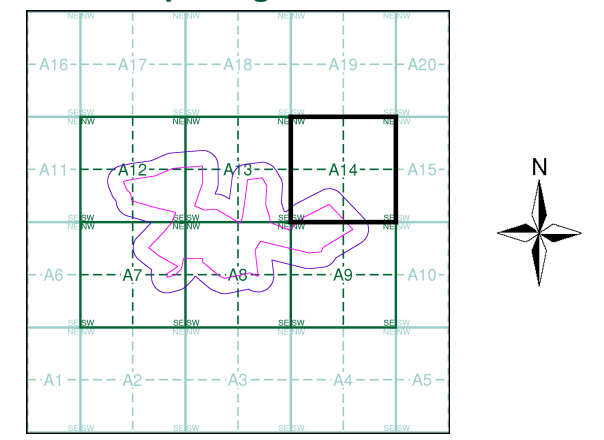
Source map scale - 1:2,500

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 A14



Order Details

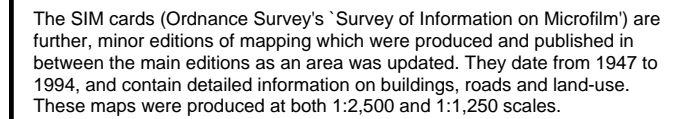
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site



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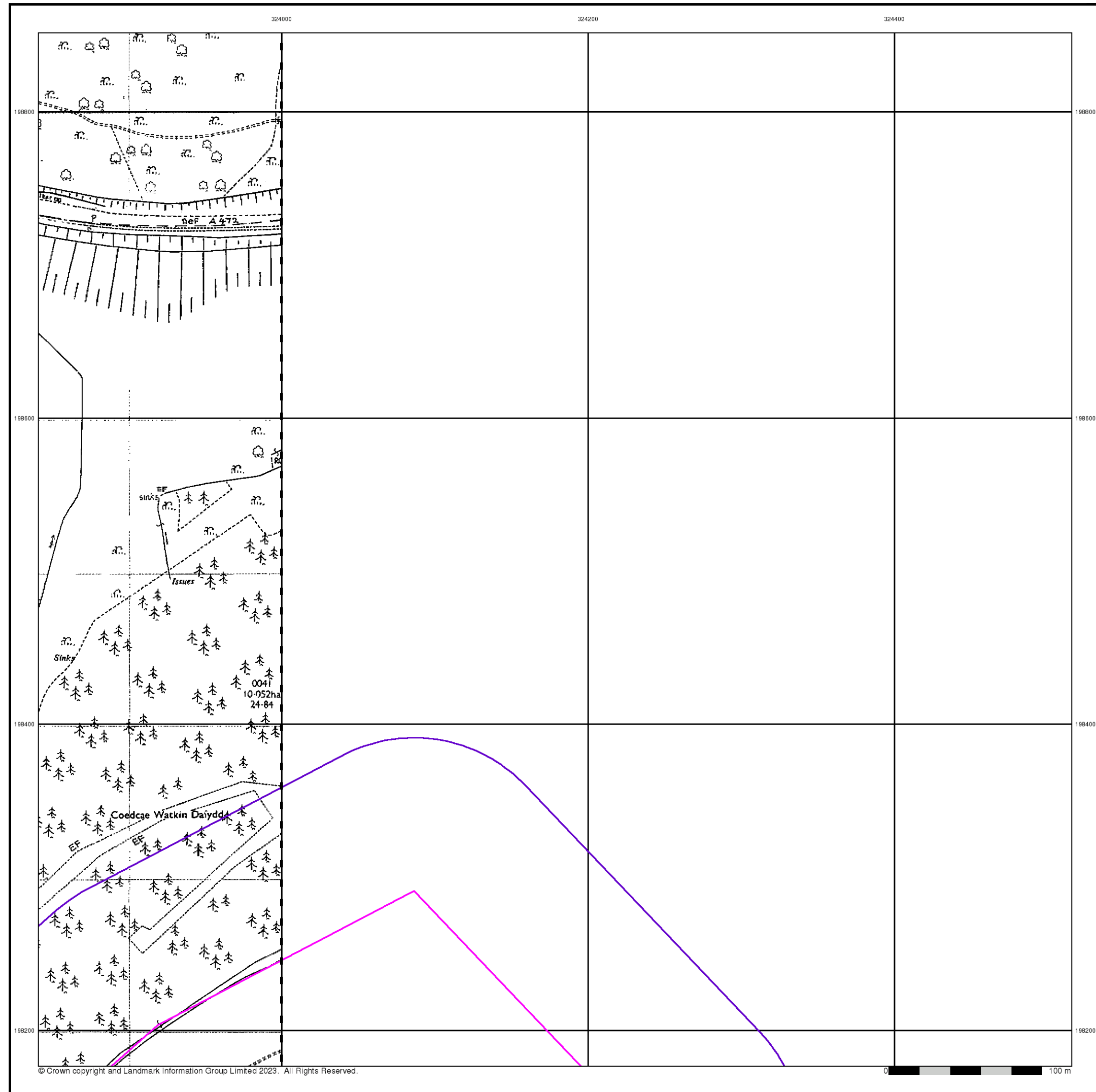


ST2398
1978
1:2,500

ST2498
1989
1:2,500

Trecelyn North Site

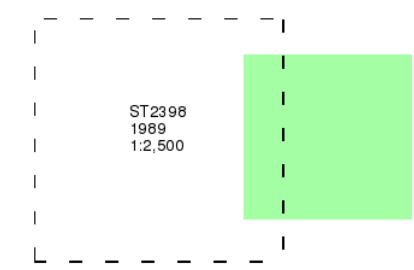
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



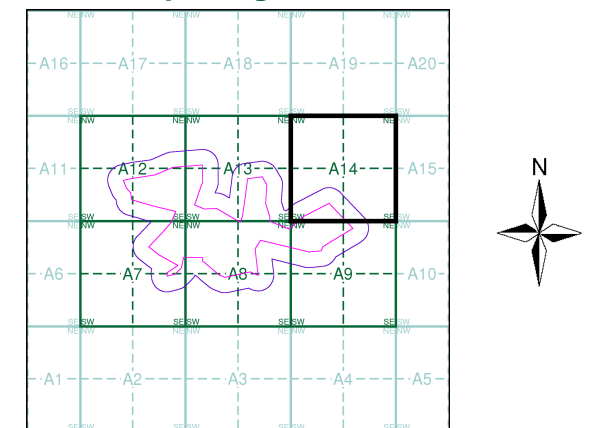
Additional SIMs
Published 1989
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

Order Number:	315135944_1_1
Customer Ref:	21584994
National Grid Reference:	323460, 198180
Slice:	A
Site Area (Ha):	46.
Search Buffer (m):	100

Site Details
Trecelyn North Site



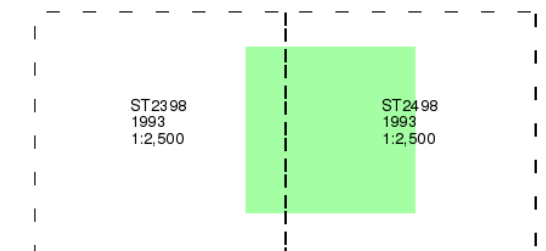
Large-Scale National Grid Data

Published 1993

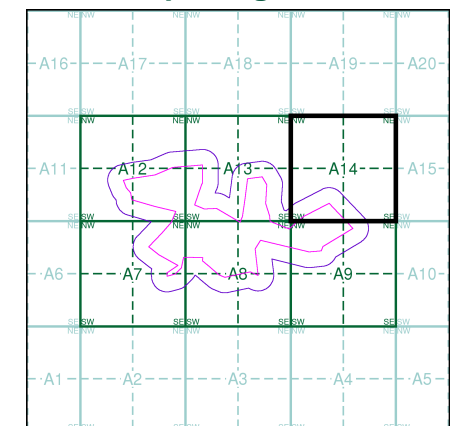
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

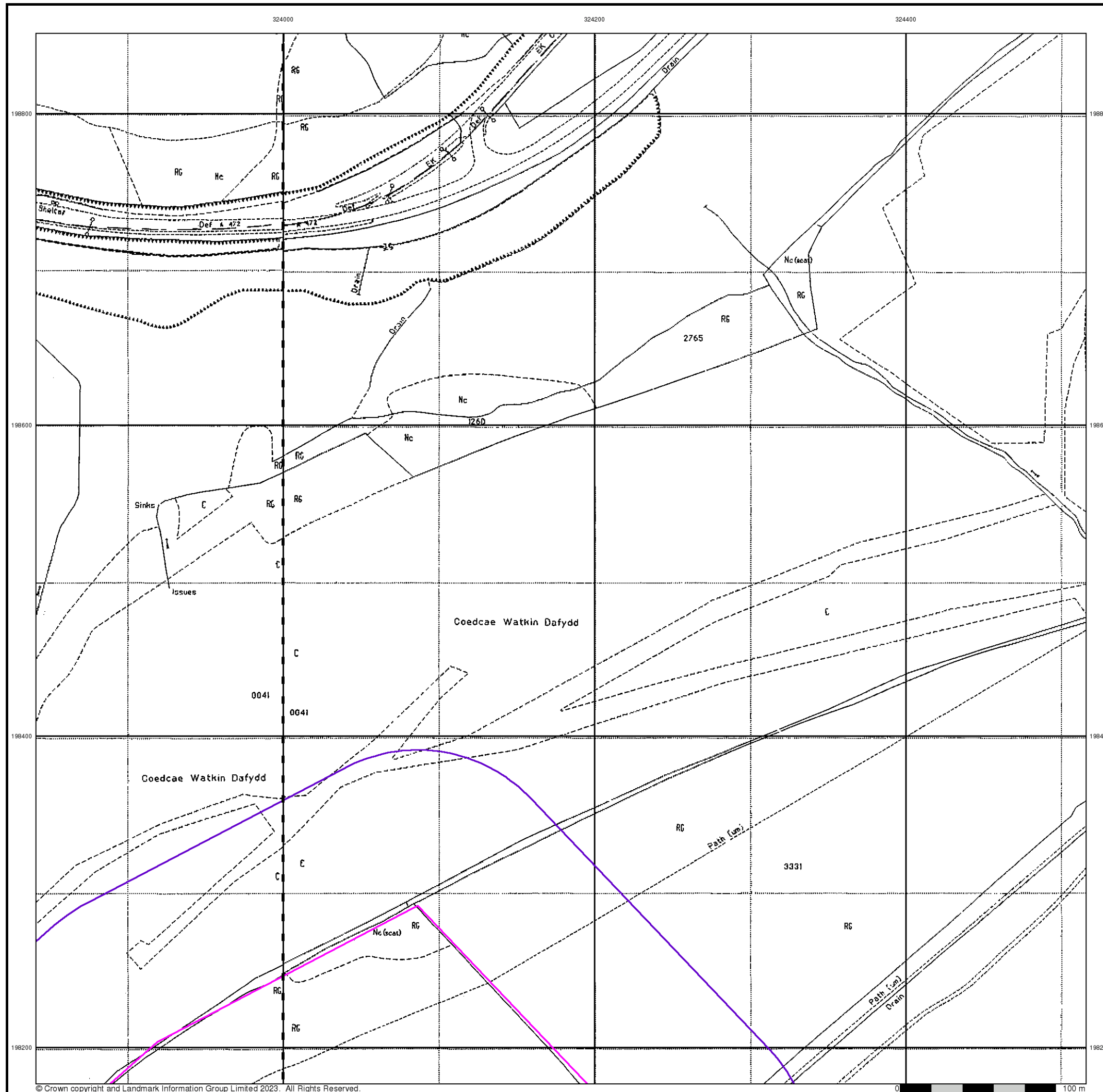
Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323460, 198180
Slice: A
Site Area (Ha): 46.
Search Buffer (m): 100

Site Details

Trecelyn North Site



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



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:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms L Gemmell, WSP UK Ltd, Sir Ian Wood House,
Hareness Road, Altens Industrial Estate, Aberdeen, AB12
3LE

Order Details

Order Number: 315135944_1_1
Customer Ref: 21584994
National Grid Reference: 323430, 198160
Site Area (Ha): 46.
Search Buffer (m): 500

Site Details

Trecelyn North Site

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<http://www.landmarkinfo.co.uk/Terms/Show/515>

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

315136209_1_1

Customer Reference:

21966268

National Grid Reference:

322920, 196370

Slice:

A

Site Area (Ha):

38.14

Search Buffer (m):

500

Site Details:

Trecelyn South Site

Client Details:

Ms L Gemmell
WSP UK Ltd
Sir Ian Wood House
Hareness Road
Altens Industrial Estate
Aberdeen
AB12 3LE

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

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Agency & Hydrological				
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 3			9
Prosecutions Relating to Controlled Waters			n/a	n/a
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls	pg 5			2
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 5	Yes		
Pollution Incidents to Controlled Waters	pg 5			4
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 6		6	(*1)
Water Industry Act Referrals				
Groundwater Vulnerability Map	pg 8	Yes	n/a	n/a
Bedrock Aquifer Designations	pg 9	Yes	n/a	n/a
Superficial Aquifer Designations			n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences				n/a
Flooding from Rivers or Sea without Defences				n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
OS Water Network Lines	pg 9		1	29

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Waste				
BGS Recorded Landfill Sites				
Historical Landfill Sites				
Integrated Pollution Control Registered Waste Sites	pg 13			1
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Landfill Coverage	pg 13	1	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 14	Yes	n/a	n/a
BGS Recorded Mineral Sites	pg 14		2	3
CBSCB Compensation District			n/a	n/a
Coal Mining Affected Areas	pg 14	Yes	n/a	n/a
Mining Instability	pg 14	Yes	n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain				n/a
Potential for Collapsible Ground Stability Hazards	pg 15	Yes		n/a
Potential for Compressible Ground Stability Hazards				n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 15	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards				n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Industrial Land Use				
Contemporary Trade Directory Entries	pg 16			5
Fuel Station Entries				
Gas Pipelines				
Underground Electrical Cables				
Sensitive Land Use				
Ancient Woodland	pg 17		16	10
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones				
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				
World Heritage Sites				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SW (NW)	0	1	322918 196370
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (W)	101	1	322700 196370
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (W)	107	1	322750 196350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10SE (W)	191	1	322600 196400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NE (NW)	200	1	322600 196600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16SW (NE)	216	1	323550 196950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16SW (NE)	232	1	323550 196850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SW (W)	239	1	322200 196300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SW (W)	242	1	322300 196370
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (E)	253	1	323500 196550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SW (W)	256	1	322350 196400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NE (NW)	260	1	322600 196700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16SW (NE)	261	1	323600 197000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A15SW (N)	263	1	322900 197050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11NE (E)	265	1	323500 196600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NW (W)	265	1	322450 196450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (NE)	266	1	323500 196750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9SE (W)	268	1	322150 196200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16SW (NE)	283	1	323550 196800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11NE (NE)	291	1	323500 196700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NW (E)	299	1	323550 196500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (E)	300	1	323550 196370

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	A14SE (N)	302	1	322850 197000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A5NE (W)	308	1	322100 196100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9SE (W)	309	1	322100 196150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16SW (NE)	311	1	323650 197050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16SW (NE)	316	1	323650 197100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A9SE (W)	317	1	322100 196200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SE (NW)	328	1	322600 196800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SE (NW)	341	1	322650 196850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SE (N)	342	1	322800 196950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16NW (NE)	375	1	323700 197150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (E)	381	1	323600 196300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (E)	391	1	323600 196250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A5NE (W)	412	1	322000 196000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A16NW (NE)	439	1	323750 197200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16NW (NE)	459	1	323750 197250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (E)	468	1	323650 196150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A5NE (SW)	474	1	321950 195900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (E)	484	1	323650 196100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Tarmac Trading Limited Property Type: Recreational & Cultural Location: Hafod Quarry, ., Chapel-Of-Ease, Abercarn, Gwent, Np11 5lh Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Zp3525gh Permit Version: Not Supplied Effective Date: 13th October 2022 Issued Date: 13th October 2022 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Into Land Environment: Receiving Water: Groundwater Via Infiltration System Status: Effective Positional Accuracy: Located by supplier to within 10m	A10SW (W)	294	2	322242 196365
1	Discharge Consents Operator: Lafarge Aggregates Limited Property Type: Recreational & Cultural Location: Hafod Quarry, ., Chapel-Of-Ease, Abercarn, Gwent, Np11 5lh Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprzp3525gh Permit Version: 1 Effective Date: 6th February 2013 Issued Date: 6th February 2013 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Into Land Environment: Receiving Water: Groundwater Via Soakaway Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A10SW (W)	294	2	322242 196365
1	Discharge Consents Operator: Tarmac Trading Limited Property Type: Recreational & Cultural Location: Hafod Quarry, ., Chapel-Of-Ease, Abercarn, Gwent, Np11 5lh Authority: Natural Resources Wales Catchment Area: EBBW R - CONF EBBW FACH R TO MAES-GLAS Reference: Zp3525gh Permit Version: 1 Effective Date: 6th February 2013 Issued Date: 6th February 2013 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Into Land Environment: Receiving Water: Groundwater Via Infiltration System Status: Effective Positional Accuracy: Located by supplier to within 10m	A10SW (W)	294	2	322242 196365
2	Discharge Consents Operator: Redland Aggregates Ltd (Redland Plc) Property Type: Extraction Of Other Minerals Location: Hafod Quarry Abercarn Newbridge . Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: AN0235601 Permit Version: 1 Effective Date: 9th November 1992 Issued Date: 9th November 1992 Revocation Date: 19th March 2004 Discharge Type: Trade Effluent Discharge Not Supplied Environment: Receiving Water: Nant Hafod Fach Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A5NE (W)	412	2	322000 196010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Tarmac Trading Limited Property Type: Sewage Disposal Works Location: Sewage Treatment Plant Serving Hafod Quarry, Abercarn, Newbridge, Np11 5lh Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0235601 Permit Version: Not Supplied Effective Date: 26th October 2022 Issued Date: 26th October 2022 Revocation Date: Not Supplied Discharge Type: Trade And Other Matter Discharge Discharge: Freshwater Stream/River Environment: Receiving Water: Nant Hafod Fach Status: Effective Positional Accuracy: Located by supplier to within 10m	A5NE (SW)	416	2	321997 195988
2	Discharge Consents Operator: Tarmac Trading Limited Property Type: General Construction Work Location: Site Drainage Under Storm Conditions At Hafod Quarry, Abercarn, Newbridge, Np11 5lh Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0337201 Permit Version: Not Supplied Effective Date: 26th October 2022 Issued Date: 26th October 2022 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: The Nant Hafod Fach Status: Effective Positional Accuracy: Located by supplier to within 10m	A5NE (SW)	416	2	321997 195988
2	Discharge Consents Operator: Tarmac Trading Limited Property Type: Not Supplied Location: Hafod Quarry Abercarn Newbridge, Abercarn, Caerphilly Cbc, Np11 5lh Authority: Natural Resources Wales Catchment Area: EBBW R - CONF EBBW FACH R TO MAES-GLAS Reference: An0235601 Permit Version: 2 Effective Date: 14th December 2015 Issued Date: 14th December 2015 Revocation Date: Not Supplied Discharge Type: Trade And Other Matter Discharge Discharge: Freshwater Stream/River Environment: Receiving Water: Nant Hafod Fach Status: Effective Positional Accuracy: Located by supplier to within 10m	A5NE (SW)	416	2	321997 195988
2	Discharge Consents Operator: Tarmac Trading Limited Property Type: Not Supplied Location: Hafod Quarry Abercarn Newbridge, Abercarn, Caerphilly Cbc, Np11 5lh Authority: Natural Resources Wales Catchment Area: EBBW R - CONF EBBW FACH R TO MAES-GLAS Reference: An0337201 Permit Version: 2 Effective Date: 14th December 2015 Issued Date: 14th December 2015 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: The Nant Hafod Fach Status: Effective Positional Accuracy: Located by supplier to within 10m	A5NE (SW)	416	2	321997 195988

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Lafarge Aggregates Limited Property Type: Extraction Of Stone, Gravel Etc. Location: Hafod Quarry Abercarn Newbridge, Abercarn, Caerphilly Cbc, Np11 5Lh Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0337201 Permit Version: 1 Effective Date: 19th March 2004 Issued Date: 19th March 2004 Revocation Date: 30th April 2007 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: The Nant Hafod Fach Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A5NE (SW)	416	2	321997 195988
3	Local Authority Pollution Prevention and Controls Name: Lafarge Redland Aggregates Ltd Location: Hafod Quarry, Chapel-of-Ease, Abercarn, NEWPORT, Gwent, NP11 5LH Authority: Caerphilly County Borough Council, Environmental Health Department Permit Reference: CCBC/IPPC/Lafarge Dated: 7th June 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG3/8 Quarry processes including roadstone plants and the size reduction of bricks, tiles and concrete Status: Permitted Positional Accuracy: Manually positioned to the address or location	A10SW (W)	304	3	322232 196370
3	Local Authority Pollution Prevention and Controls Name: Redland Lafarge Aggregates Ltd Location: Hafod Quarry, Chapel-of-Ease, Abercarn, NEWPORT, Gwent, NP11 5LH Authority: Caerphilly County Borough Council, Environmental Health Department Permit Reference: CCBC/IPPC/Lafarge Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/8 Quarry processes including roadstone plants and the size reduction of bricks, tiles and concrete Status: Permitted Positional Accuracy: Manually positioned to the address or location	A10SW (W)	304	3	322232 196370
	Nearest Surface Water Feature	A11SW (E)	0	-	323123 196400
4	Pollution Incidents to Controlled Waters Property Type: Quarrying (Hard Rock) Location: Chapel Of Ease, ABERCARN Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Poor Operational Practise Incident Date: 24th March 1992 Incident Reference: 4128 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (W)	286	4	322300 196400
5	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Adjacent To Primary School Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Weather Incident Date: 6th November 1991 Incident Reference: 1821 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Bypass Of Treatment Facilities Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A5NE (W)	309	4	322100 196100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Adjacent To, Abercarn Infant School, ABERCARN Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Management Incident Date: 28th January 1997 Incident Reference: 31313 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A5NE (W)	412	4	322000 196000
6	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Adjacent To, Abercarn Infant School, ABERCARN Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Management Incident Date: 28th January 1997 Incident Reference: 31399 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A5NE (W)	413	4	322000 195995
7	Water Abstractions Operator: Tarmac Aggregates Limited Licence Number: 20/56/62/0018 Permit Version: 104 Location: Borehole At Hafod Quarry Authority: Natural Resources Wales Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 16th November 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SW (W)	249	2	322281 196340
7	Water Abstractions Operator: Lafarge Aggregates Limited Licence Number: 20/56/62/0018 Permit Version: 103 Location: Borehole At Hafod Quarry Authority: Natural Resources Wales Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 12 July Permit Start Date: 12th September 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SW (W)	249	2	322281 196340
7	Water Abstractions Operator: Tarmac Aggregates Ltd Licence Number: 20/56/62/0018 Permit Version: Not Supplied Location: Borehole In Abercarn, Newport, Tarmac Trading Ltd, Hafod Quarry, Hafod Fach Lane, Chapel-Of-Ease, Abercarn, Np11 5lj Authority: Natural Resources Wales Abstraction: Mineral Products: Dust Suppression Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SW (W)	249	2	322281 196340

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Water Abstractions Operator: Lafarge Aggregates Limited Licence Number: 20/56/62/0018 Permit Version: 102 Location: Borehole At Hafod Quarry Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SW (W)	250	4	322280 196340
7	Water Abstractions Operator: Lafarge Aggregates Limited Licence Number: 20/56/62/0018 Permit Version: 101 Location: Borehole At Hafod Quarry Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th November 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SW (W)	250	4	322280 196340
7	Water Abstractions Operator: Lafarge Cement Uk Licence Number: 20/56/62/0018 Permit Version: 100 Location: Borehole At Hafod Quarry Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Borehole Sandstone Hafod Quarry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th October 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10SW (W)	250	4	322280 196340
	Water Abstractions Operator: Environment Agency Licence Number: Wa/056/0062/002 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Non-Remedial River/Wetland Support: Fish Pass/Canoe Pass Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5NW (W)	796	2	321630 195860

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	A15SW (N)	0	2	323000 197000
	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	A11SW (NW)	0	2	322918 196370
	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	A11SW (E)	0	2	323000 196370
	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	A7NW (S)	0	2	322918 196000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Secondary Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial: <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	A7NW (S)	0	2	323000 196000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11SW (NW)	0	2	322918 196370
	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				
8	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 431.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A14SE (N)	212	5	322723 196972
9	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 359.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A10SW (W)	265	5	322237 196319
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.2 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A10SW (W)	265	5	322262 196347
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 0.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A10SW (W)	267	5	322262 196348
12	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 1.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A10SW (W)	267	5	322263 196349

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A10SW (W)	268	5	322269 196357
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A10SW (W)	270	5	322288 196376
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 538.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A10NW (NW)	270	5	322522 196600
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 366.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A11NE (NE)	273	5	323527 196676
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 206.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A10NW (W)	274	5	322453 196500
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1037.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Gwyddon-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A11NE (NE)	282	5	323538 196669
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 724.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Gwyddon-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A12NW (E)	304	5	323550 196567
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A15NE (NE)	350	5	323462 197386
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A15NE (NE)	350	5	323462 197386

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 184.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A15NE (NE)	362	5	323380 197433
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A5NE (W)	386	5	322024 196033
24	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: Ebbw Sirhowy Primacy: 1	A5NE (W)	386	5	322023 196040
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 288.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A19SE (N)	428	5	323263 197512
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A19SE (N)	428	5	323263 197512
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A5NE (SW)	429	5	321986 195973
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 218.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 2	A19SE (N)	436	5	323271 197520
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 428.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A10NW (NW)	445	5	322405 196753
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A5NE (SW)	446	5	321977 195907

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A10NW (NW)	451	5	322388 196733
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 284.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A10NW (NW)	451	5	322388 196733
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A5NE (SW)	464	5	321958 195915
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Hafod-fach Catchment Name: Ebbw Sirhowy Primacy: 1	A5NE (SW)	465	5	321960 195901
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A10NW (NW)	489	5	322359 196761
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A10NW (NW)	489	5	322359 196761
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A5NE (SW)	500	5	321937 195836

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	Integrated Pollution Control Registered Waste Sites Name: Redland Aggregates Ltd Location: Hafod Quarry, Chapel-Of-Ease, Abercarn, NEWPORT, Gwent, NP1 5LH Authority: Environment Agency, Welsh Region Permit Reference: AJ3395 Dated: 8th October 1993 Process Type: Application since found to be exempt from IPC Description: 5.2 A Recovery processes within the Waste Disposal Industry Status: Application since found to be exempt from IPC Positional Accuracy: Manually positioned within the geographical locality	A5NE (SW)	441	4	321977 195935
	Local Authority Landfill Coverage Name: Caerphilly County Borough Council - Has supplied landfill data		0	3	322918 196370

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: South Wales Upper Coal Measures Formation	A11SW (NW)	0	1	322918 196370
39	BGS Recorded Mineral Sites Site Name: Coed Sara Location: Newbridge, Caerphilly Source: British Geological Survey, National Geoscience Information Service Reference: 175831 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hughes Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A10SE (NW)	7	1	322844 196422
40	BGS Recorded Mineral Sites Site Name: Hafod Fach Quarry Location: Abercarn, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 416 Type: Opencast Status: Dormant Operator: Tarmac (A Crh Company) Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hughes Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A10NE (NW)	159	1	322630 196565
41	BGS Recorded Mineral Sites Site Name: Hafod Fach Quarry Location: Abercarn, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 235639 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hughes Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A10NW (W)	287	1	322494 196493
42	BGS Recorded Mineral Sites Site Name: Celynen Quarry Location: Celynen, Newport, Caerphilly Source: British Geological Survey, National Geoscience Information Service Reference: 175708 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A5NE (SW)	386	1	322043 195888
43	BGS Recorded Mineral Sites Site Name: Celynen Quarry Location: Celynen, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 411 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Rhondda Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A5NE (SW)	497	1	321945 195812
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A11SW (NW)	0	6	322918 196370
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A11SW (NW)	0	-	322918 196370

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NW)	0	1	322918 196370
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NW)	0	1	322918 196370
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NW)	0	1	322918 196370
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NW)	0	1	322918 196370
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	48	1	322747 196400
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NE (E)	191	1	323462 196594
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NW)	0	1	322918 196370
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NW)	0	1	322918 196370
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A11SW (NW)	0	1	322918 196370
	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	A11SW (NW)	0	1	322918 196370

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	Contemporary Trade Directory Entries Name: Lafarge Aggregates Ltd Location: Abercarn, NEWPORT, Gwent, NP11 5LH Classification: Asphalt & Macadam Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A10SW (W)	304	-	322232 196370
45	Contemporary Trade Directory Entries Name: P & D Dugmore Location: Hafod Fach Lane, Abercarn, Newport, NP11 5LJ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A5NE (SW)	426	-	321990 195953
45	Contemporary Trade Directory Entries Name: P & D Dugmore Location: Hafod Fach Lane, Abercarn, Newport, Gwent, NP11 5LJ Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Active Positional Accuracy: Automatically positioned to the address	A5NE (SW)	428	-	321989 195949
45	Contemporary Trade Directory Entries Name: P & D Dugmore Location: The Garage, Abercarn, Newport, Gwent, NP11 5LH Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A5NE (SW)	428	-	321989 195949
46	Contemporary Trade Directory Entries Name: Dps Preservation Services Location: Penrhiwgwair Cottage, Llanfach, Abercarn, Newport, Gwent, NP11 5AP Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A2NW (SW)	448	-	322251 195399

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	Ancient Woodland Name: Not Supplied Reference: 43259 Area(m²): 18942.45 Type: Plantation on Ancient Woodland	A10SW (SW)	4	2	322407 196108
48	Ancient Woodland Name: Not Supplied Reference: 7411 Area(m²): 15364.91 Type: Ancient and Semi-Natural Woodland	A11SW (W)	7	2	322894 196367
49	Ancient Woodland Name: Not Supplied Reference: 40723 Area(m²): 33483.96 Type: Plantation on Ancient Woodland	A10SW (W)	13	2	322525 196383
50	Ancient Woodland Name: Not Supplied Reference: 40370 Area(m²): 10308.74 Type: Plantation on Ancient Woodland	A10SW (SW)	55	2	322363 196122
51	Ancient Woodland Name: Not Supplied Reference: 40722 Area(m²): 1631.66 Type: Plantation on Ancient Woodland	A6NW (SW)	70	2	322340 196038
52	Ancient Woodland Name: Not Supplied Reference: 41539 Area(m²): 4845.27 Type: Plantation on Ancient Woodland	A10SW (W)	80	2	322316 196234
53	Ancient Woodland Name: Not Supplied Reference: 40257 Area(m²): 303509.9 Type: Plantation on Ancient Woodland	A11SE (E)	82	2	323332 196404
54	Ancient Woodland Name: Not Supplied Reference: 16353 Area(m²): 97991.04 Type: Ancient and Semi-Natural Woodland	A10SW (W)	90	2	322319 196325
55	Ancient Woodland Name: Not Supplied Reference: 41539 Area(m²): 6642.34 Type: Plantation on Ancient Woodland	A6NW (SW)	91	2	322353 195846
56	Ancient Woodland Name: Not Supplied Reference: 23842 Area(m²): 834.86 Type: Restored Ancient Woodland Site	A6NW (SW)	92	2	322336 195919
57	Ancient Woodland Name: Not Supplied Reference: 23843 Area(m²): 10831.62 Type: Restored Ancient Woodland Site	A10SE (W)	93	2	322664 196351
58	Ancient Woodland Name: Not Supplied Reference: 41539 Area(m²): 527.96 Type: Plantation on Ancient Woodland	A6NW (SW)	100	2	322314 195992
59	Ancient Woodland Name: Not Supplied Reference: 11970 Area(m²): 3616.33 Type: Restored Ancient Woodland Site	A10SW (W)	104	2	322515 196365
60	Ancient Woodland Name: Not Supplied Reference: 11970 Area(m²): 2206.13 Type: Restored Ancient Woodland Site	A10SW (W)	145	2	322352 196290

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	Ancient Woodland Name: Not Supplied Reference: 39851 Area(m ²): 1203592.67 Type: Plantation on Ancient Woodland	A12NW (E)	148	2	323557 196555
62	Ancient Woodland Name: Not Supplied Reference: 41539 Area(m ²): 2019.01 Type: Plantation on Ancient Woodland	A10SW (W)	215	2	322319 196333
63	Ancient Woodland Name: Not Supplied Reference: 42789 Area(m ²): 59838.94 Type: Plantation on Ancient Woodland	A10NW (NW)	264	2	322523 196575
64	Ancient Woodland Name: Not Supplied Reference: 9046 Area(m ²): 67799.88 Type: Ancient and Semi-Natural Woodland	A10NE (NW)	268	2	322545 196642
65	Ancient Woodland Name: Not Supplied Reference: 47986 Area(m ²): 14604.29 Type: Restored Ancient Woodland Site	A11SE (E)	276	2	323469 196216
66	Ancient Woodland Name: Not Supplied Reference: 10791 Area(m ²): 177962.57 Type: Restored Ancient Woodland Site	A9SE (W)	301	2	322193 196399
67	Ancient Woodland Name: Not Supplied Reference: 22299 Area(m ²): 17370.69 Type: Restored Ancient Woodland Site	A10SW (W)	340	2	322257 196435
68	Ancient Woodland Name: Not Supplied Reference: 42780 Area(m ²): 5001.23 Type: Plantation on Ancient Woodland	A9SE (W)	342	2	322067 196110
69	Ancient Woodland Name: Not Supplied Reference: 40724 Area(m ²): 8288.31 Type: Plantation on Ancient Woodland	A10NW (NW)	343	2	322517 196733
70	Ancient Woodland Name: Not Supplied Reference: 47840 Area(m ²): 43301.29 Type: Restored Ancient Woodland Site	A7SE (SE)	423	2	323297 195548
71	Ancient Woodland Name: Not Supplied Reference: 39432 Area(m ²): 44506.52 Type: Plantation on Ancient Woodland	A12SW (E)	462	2	323659 196198
72	Ancient Woodland Name: Not Supplied Reference: 9367 Area(m ²): 40676.57 Type: Ancient and Semi-Natural Woodland	A5SE (SW)	465	2	322094 195506






Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Blaenau Gwent County Borough Council - Environmental Health Department Natural Resources Wales Torfaen County Borough Council - Department for the Environmental Caerphilly County Borough Council - Environmental Health Department	January 2020 June 2020 October 2017 September 2017	Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 May 2023	Quarterly 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 Natural Resources Wales	January 2021 May 2023	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Torfaen County Borough Council - Department for the Environmental Blaenau Gwent County Borough Council - Environmental Health Department Caerphilly County Borough Council - Environmental Health Department	December 2015 June 2014 September 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Blaenau Gwent County Borough Council - Environmental Health Department Torfaen County Borough Council - Department for the Environmental Caerphilly County Borough Council - Environmental Health Department	June 2014 November 2015 September 2014	Annual Rolling Update Annual Rolling Update Not Applicable
Local Authority Pollution Prevention and Control Enforcements Torfaen County Borough Council - Department for the Environmental Blaenau Gwent County Borough Council - Environmental Health Department Caerphilly County Borough Council - Environmental Health Department	December 2015 June 2014 September 2014	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	May 2023	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	July 2015 July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	As notified
Substantiated Pollution Incident Register Natural Resources Wales Environment Agency Wales - South East Area	April 2023 January 2021	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	April 2023 June 2023	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2022	
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified

Agency & Hydrological	Version	Update Cycle
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	
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	April 2023	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	March 2023	As notified
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South East Area Natural Resources Wales	January 2023 October 2021	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	July 2021 May 2023	Quarterly Quarterly
Local Authority Landfill Coverage Blaenau Gwent County Borough Council - Environmental Health Department Caerphilly County Borough Council - Environmental Health Department Torfaen County Borough Council - Department for the Environmental	February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Blaenau Gwent County Borough Council - Environmental Health Department Caerphilly County Borough Council - Environmental Health Department Torfaen County Borough Council - Department for the Environmental	October 2018 October 2018 October 2018	
Registered Landfill Sites Environment Agency Wales - South East Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Blaenau Gwent County Borough Council - Planning Department Caerphilly County Borough Council - Planning Department Torfaen County Borough Council - Planning Department	January 2023 January 2023 June 2023	Variable Variable Variable
Planning Hazardous Substance Consents Blaenau Gwent County Borough Council - Planning Department Torfaen County Borough Council - Planning Department Caerphilly County Borough Council - Planning Department	February 2016 February 2016 January 2023	Variable Variable 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	June 2023	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	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	July 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	June 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	February 2023	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	April 2023	Bi-Annually
Areas of Adopted Green Belt Blaenau Gwent County Borough Council - Municipal Offices Caerphilly County Borough Council Torfaen County Borough Council	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Blaenau Gwent County Borough Council - Municipal Offices Caerphilly County Borough Council Torfaen County Borough Council	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural Resources Wales	April 2023	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Blaenau Gwent County Borough Council - Municipal Offices Caerphilly County Borough Council Torfaen County Borough Council	March 2023 March 2023 March 2023	Bi-Annually Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	April 2023	Bi-Annually
National Nature Reserves Natural Resources Wales	February 2023	Bi-Annually
National Parks Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural Resources Wales	April 2016 March 2023	Bi-Annually
Ramsar Sites Natural Resources Wales	March 2023	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2023	Bi-Annually
Special Areas of Conservation Natural Resources Wales	April 2023	Bi-Annually
Special Protection Areas Natural Resources Wales	April 2023	Bi-Annually

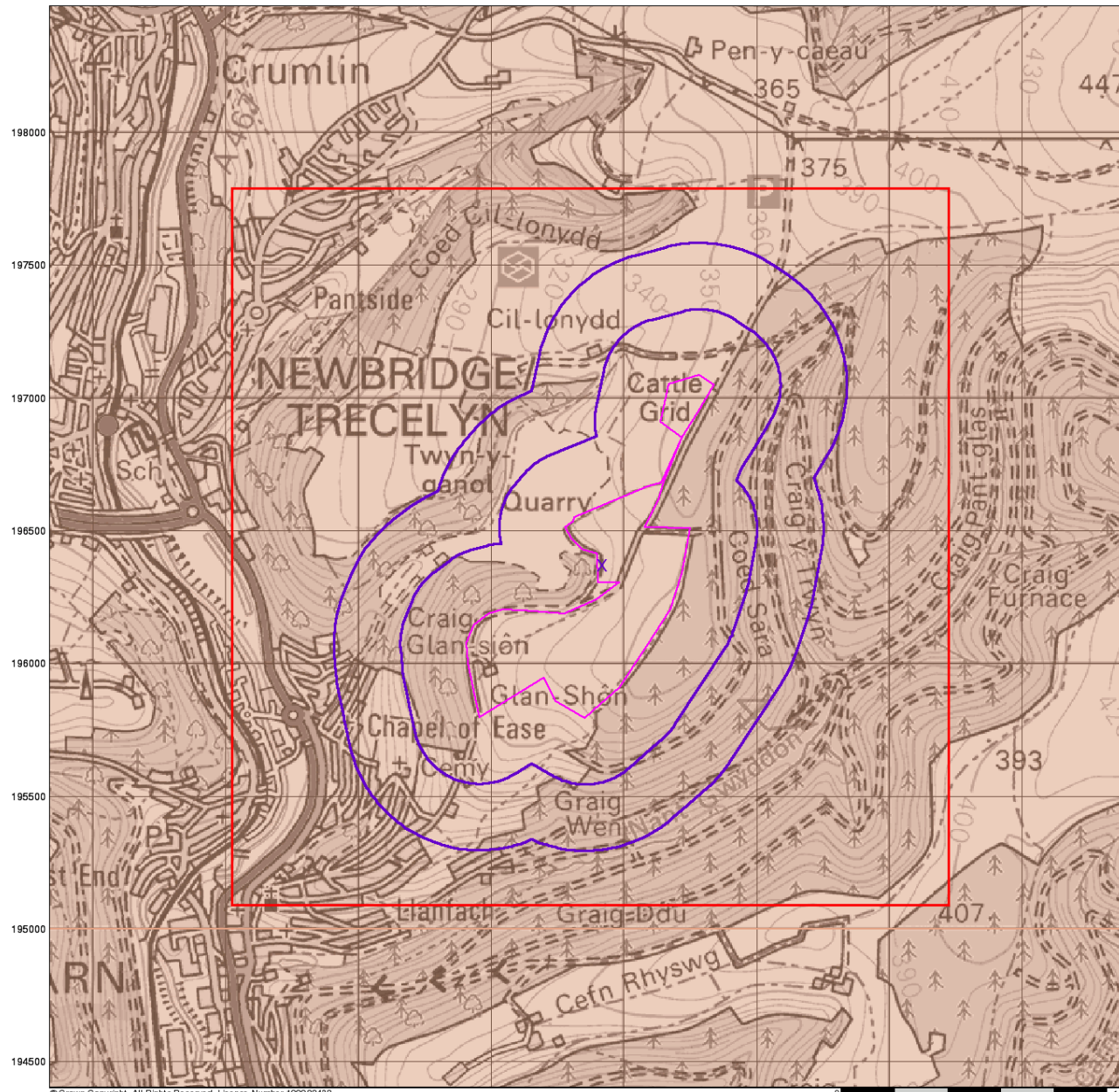
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
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	Caerphilly County Borough Council - Environmental Health Department Pontllanfraith, Blackwood, NP12 2YW	Telephone: 01443 815588 Fax: 01443 864307 Website: www.caerphilly.gov.uk
4	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.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
-	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.

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0 1 km

wood.

Bedrock Aquifer Designation

General

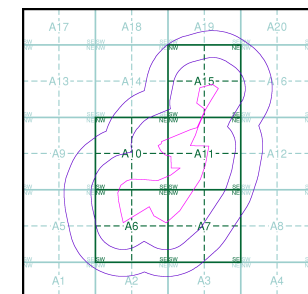
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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



Order Details

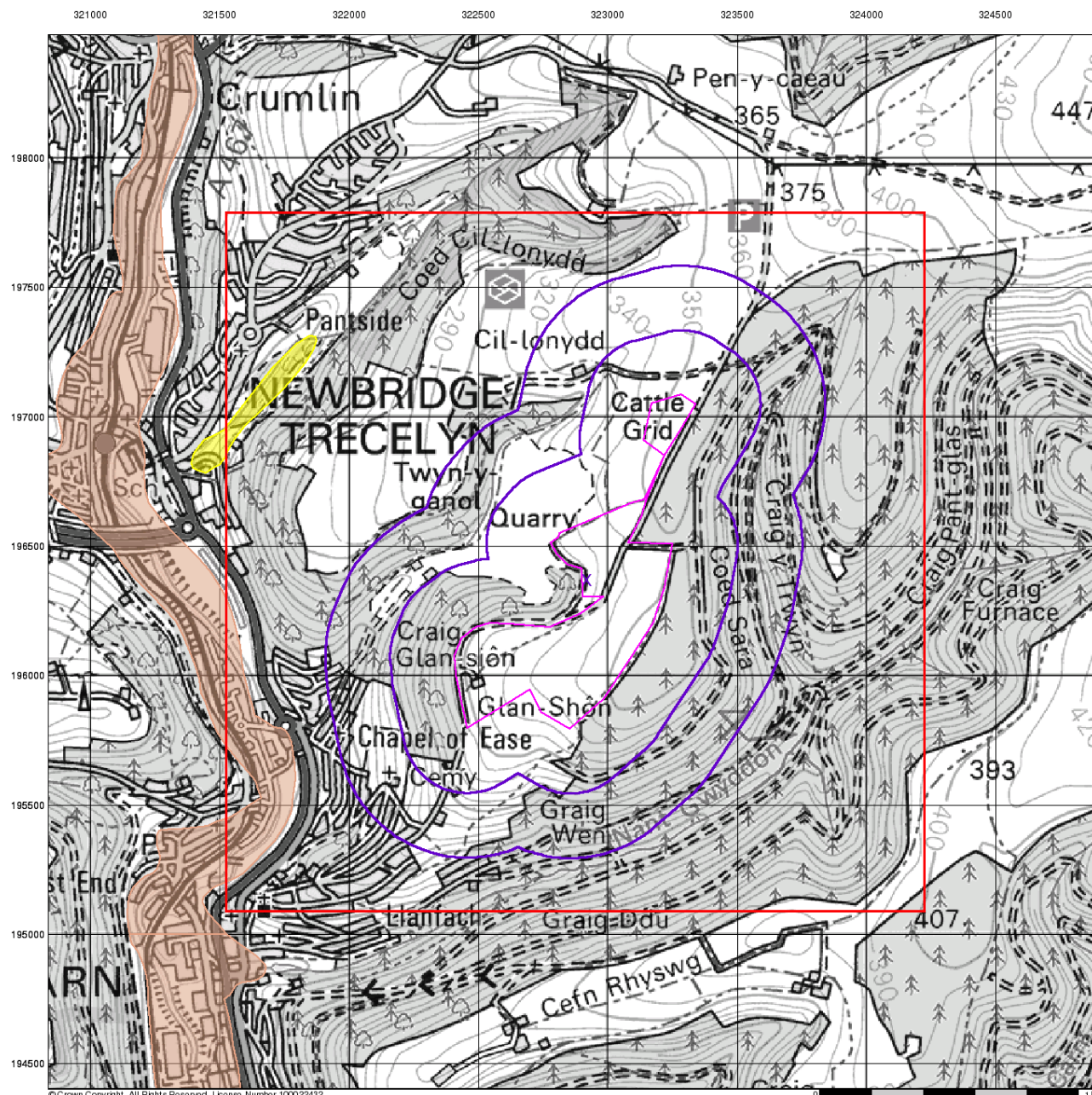
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 500

Site Details

Trecelyn South Site

Landmark
INFORMATION GROUP

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wood.

Superficial Aquifer Designation

General

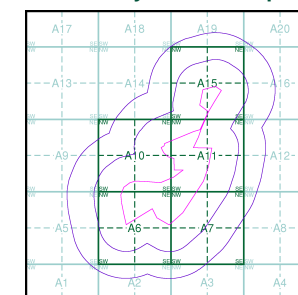
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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: 315136209_1_1
 Customer Ref: 21966268
 National Grid Reference: 322920, 196370
 Slice: A
 Site Area (Ha): 38.14
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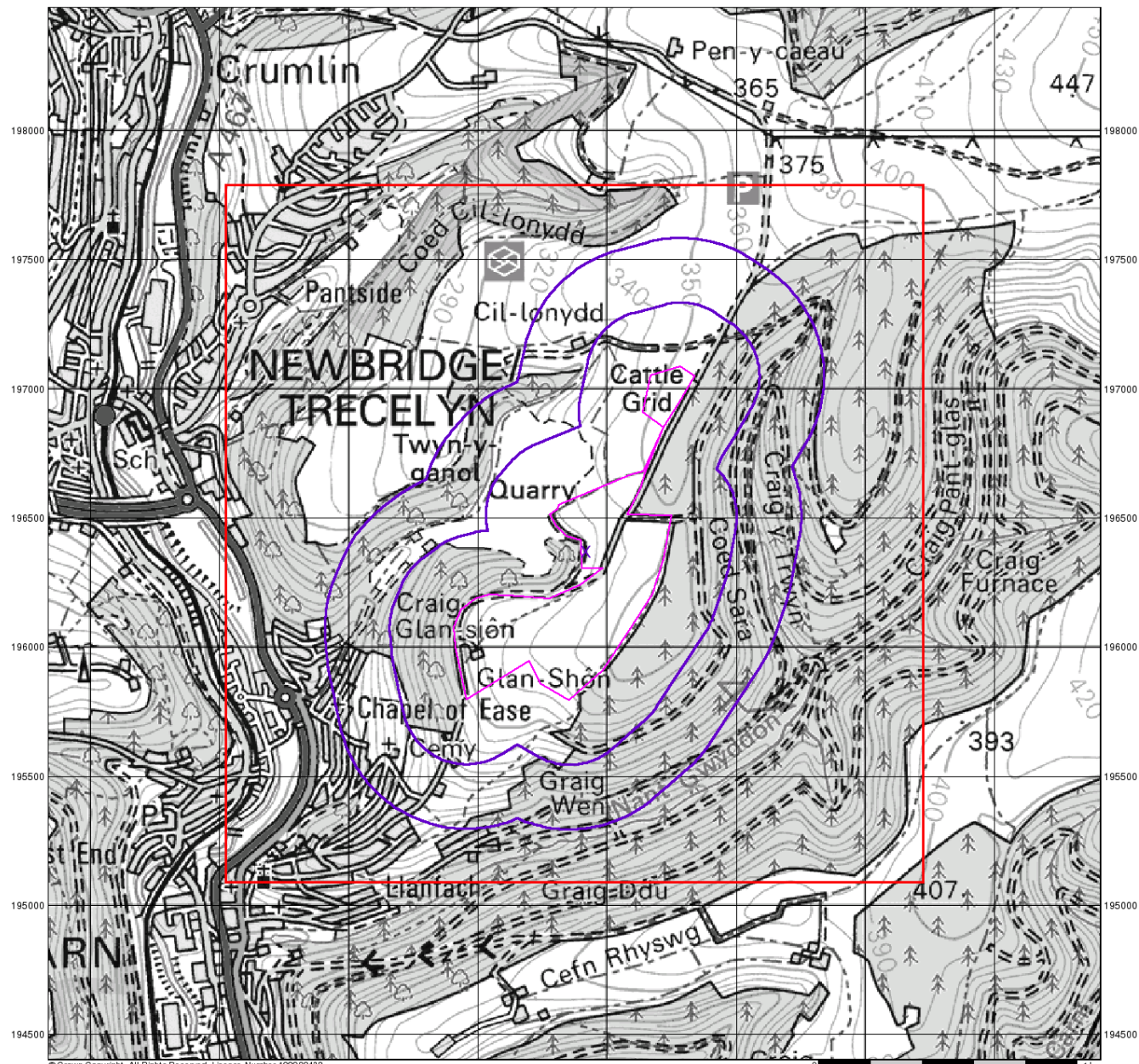
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wood.

Source Protection Zones

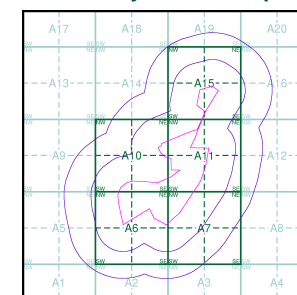
General

- 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: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 500

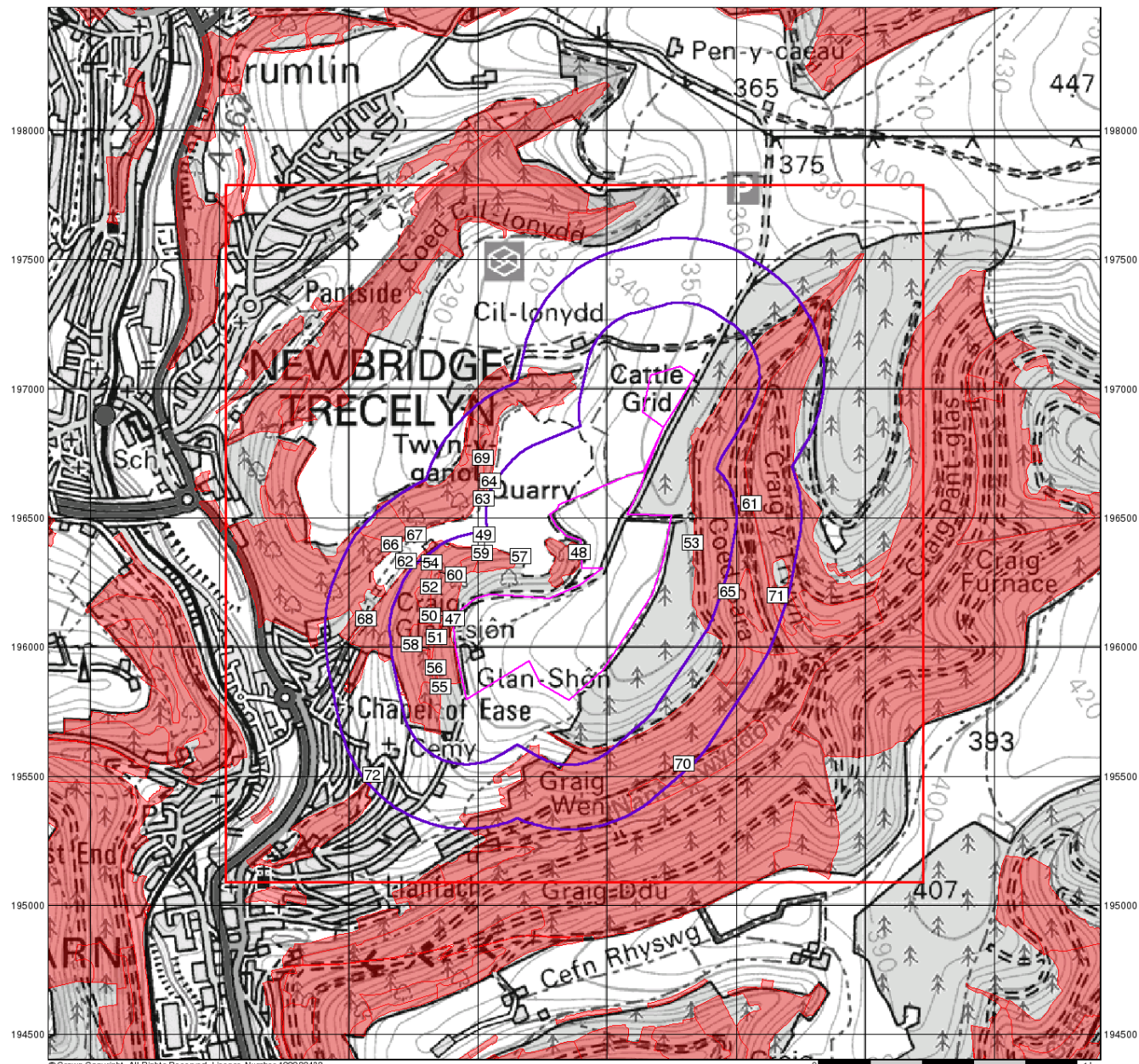
Site Details

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wood.

Sensitive Land Uses

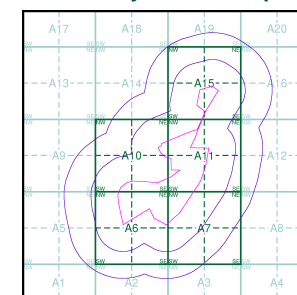
General

- 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

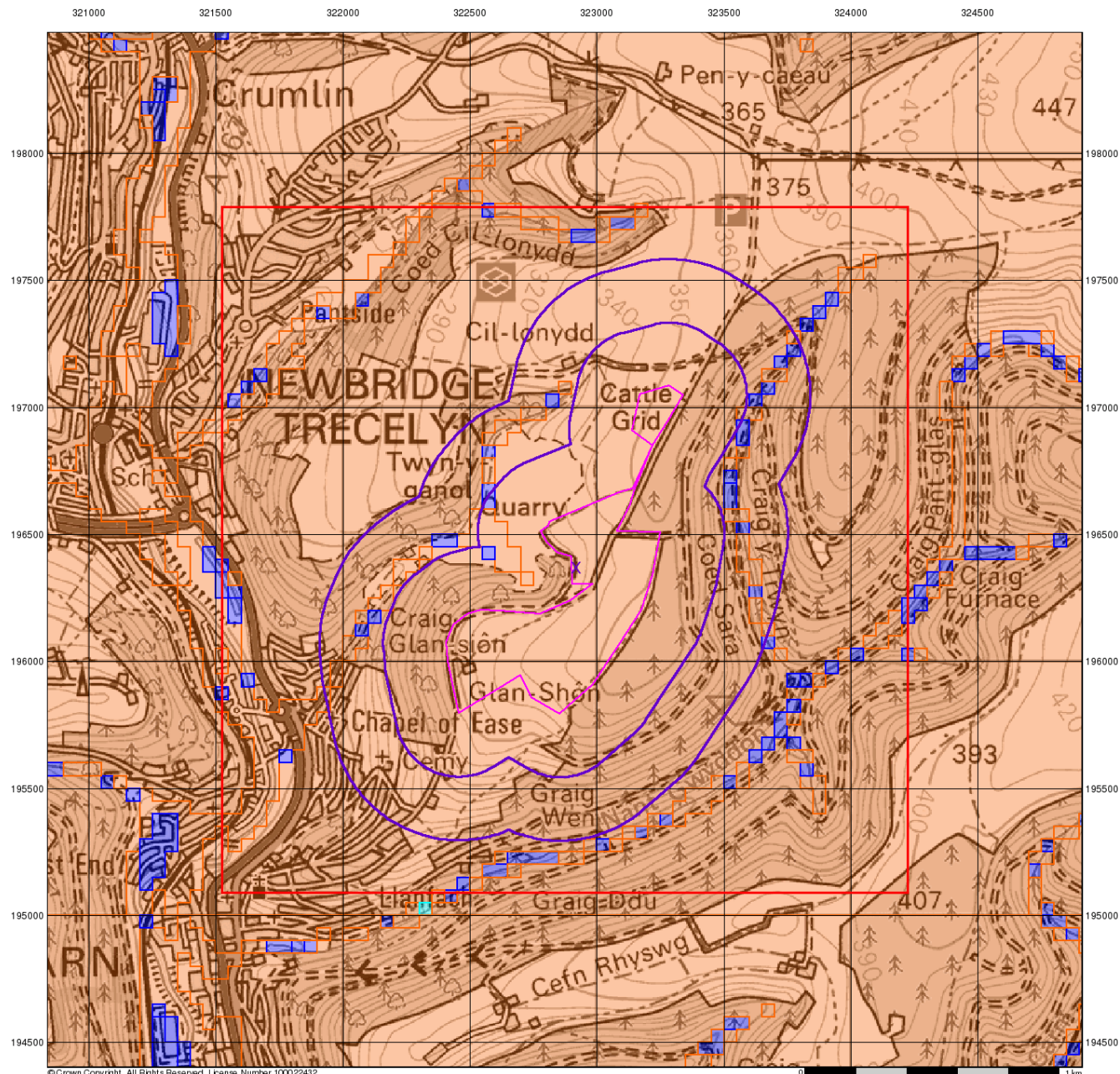
Order Number: 315136209_1_1
 Customer Ref: 21966268
 National Grid Reference: 322920, 196370
 Slice: A
 Site Area (Ha): 38.14
 Search Buffer (m): 500

Site Details

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BGS Flood GFS Data

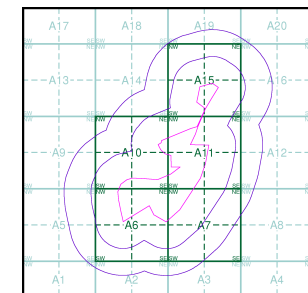
General

- 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: 315136209_1_1
 Customer Ref: 21966268
 National Grid Reference: 322920, 196370
 Slice: A
 Site Area (Ha): 38.14
 Search Buffer (m): 500

Site 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

Hazardous Substances

- COMAH Site
- Explosive Site

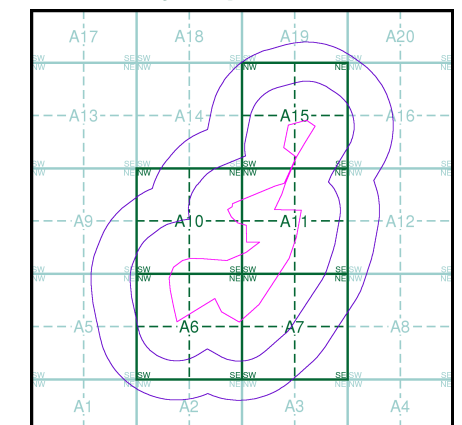
Geological

- BGS Recorded Mineral Site

Industrial Land Use

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

Site Sensitivity Map - Slice A

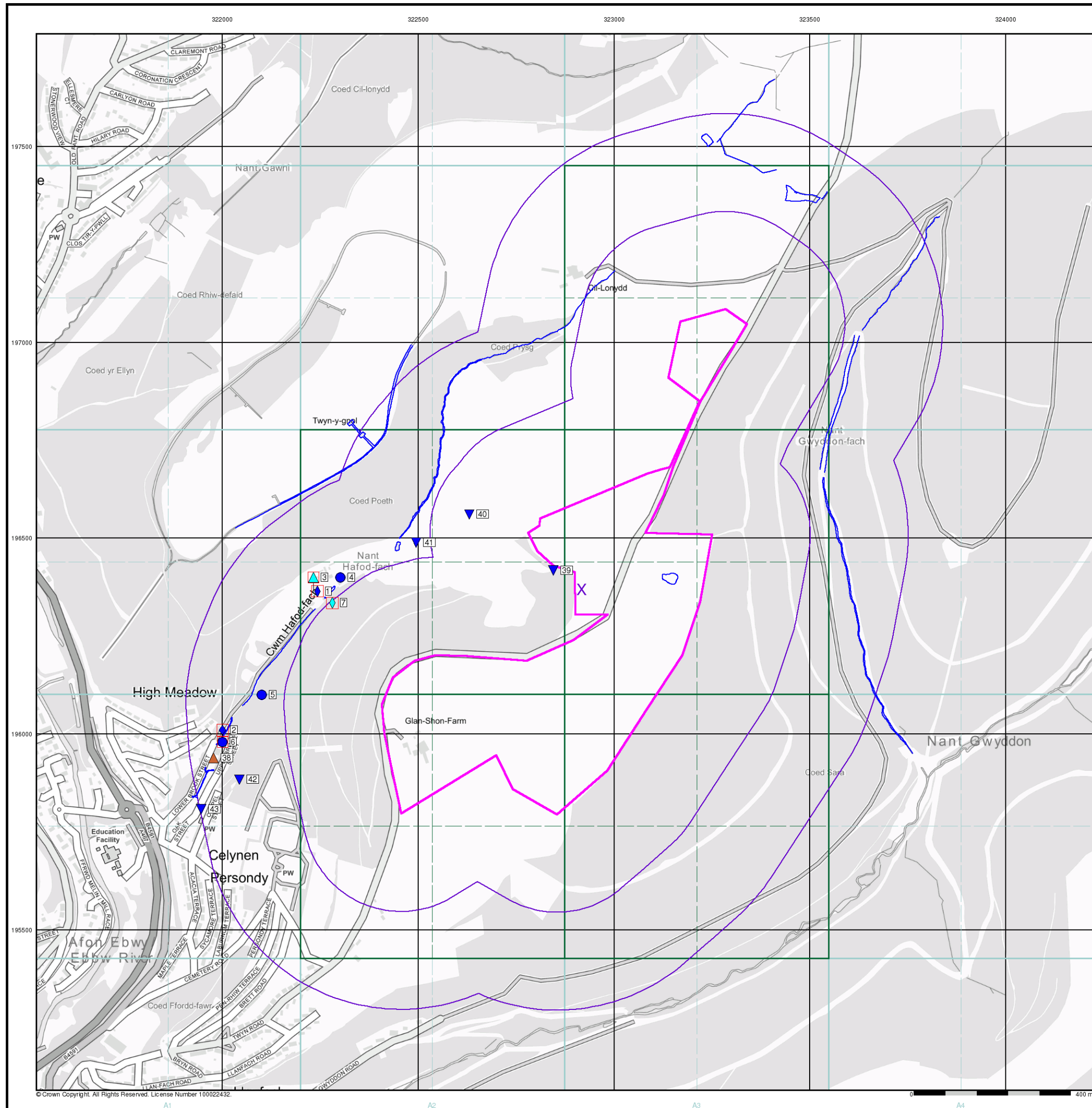


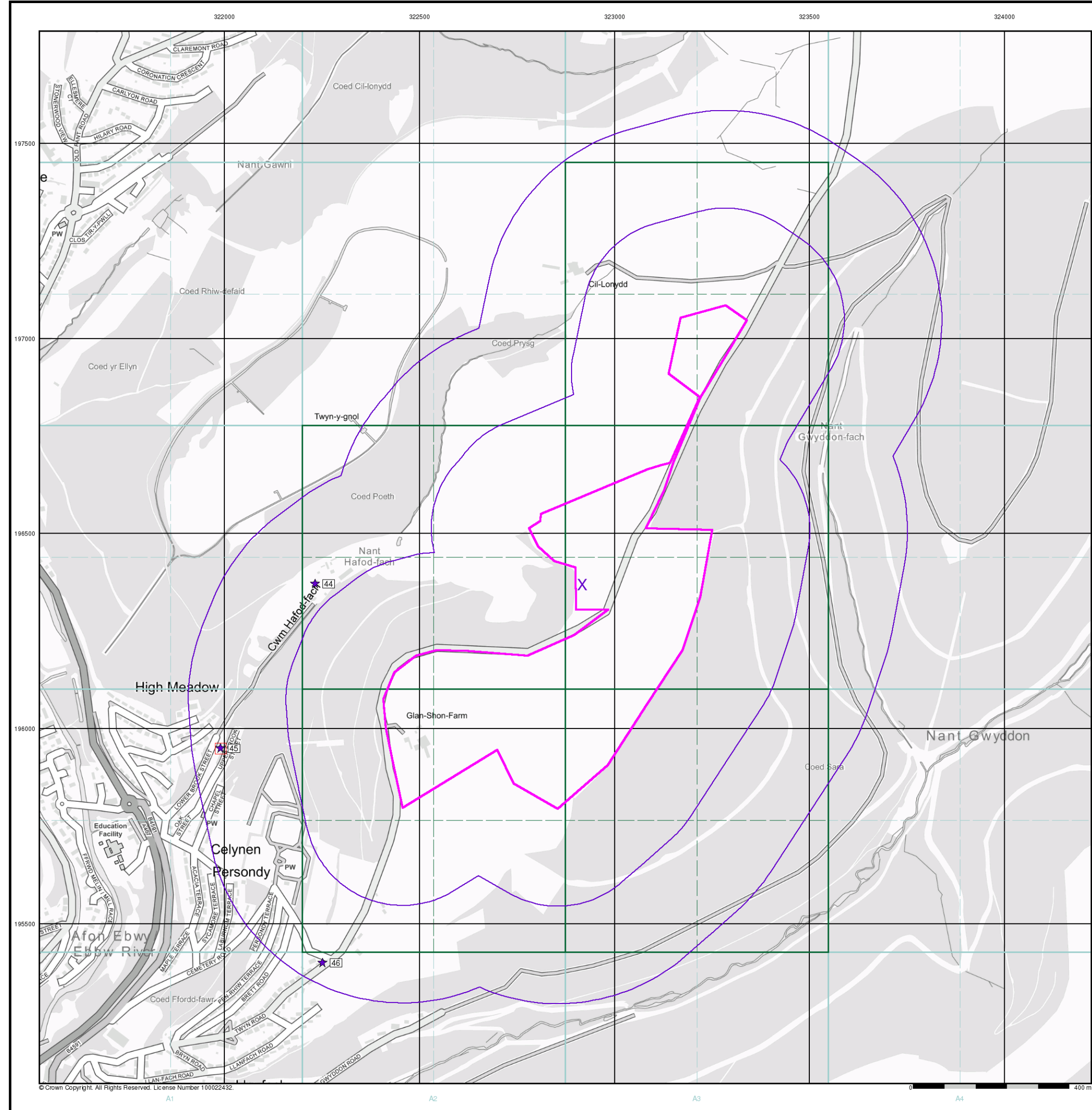
Order Details

Order Number: 315136209_1_1
 Customer Ref: 21966268
 National Grid Reference: 322920, 196370
 Slice: A
 Site Area (Ha): 38.14
 Search Buffer (m): 500

Site Details

Trecelyn South Site





Industrial Land Use Map

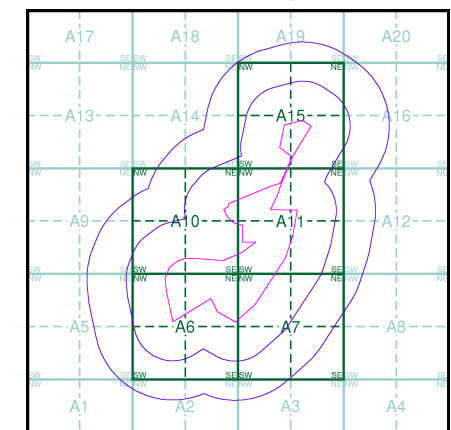
General

- 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



Order Details

Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 500

Site Details

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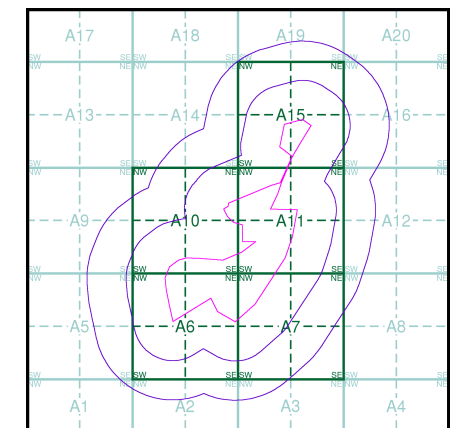
General

- 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 A



Order Details

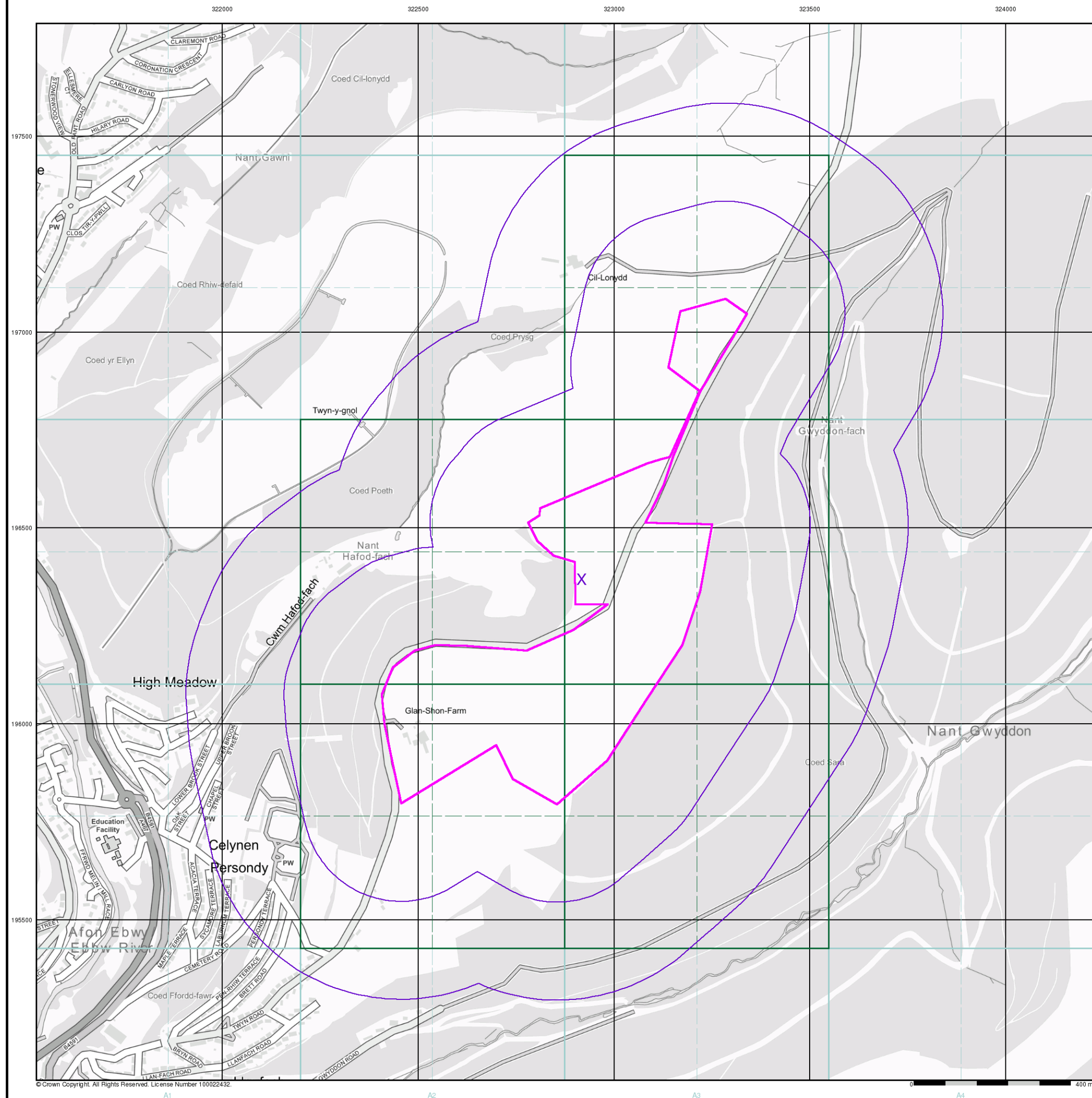
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Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 500

Site Details

Trecelyn South Site



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General

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

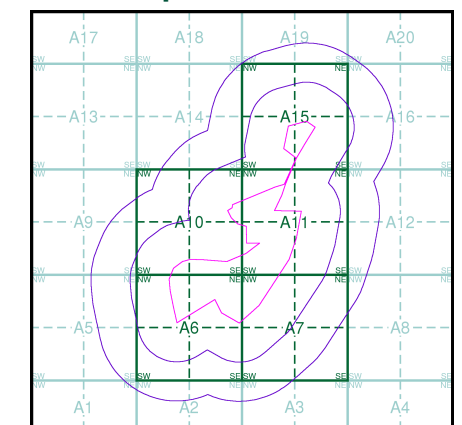
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A

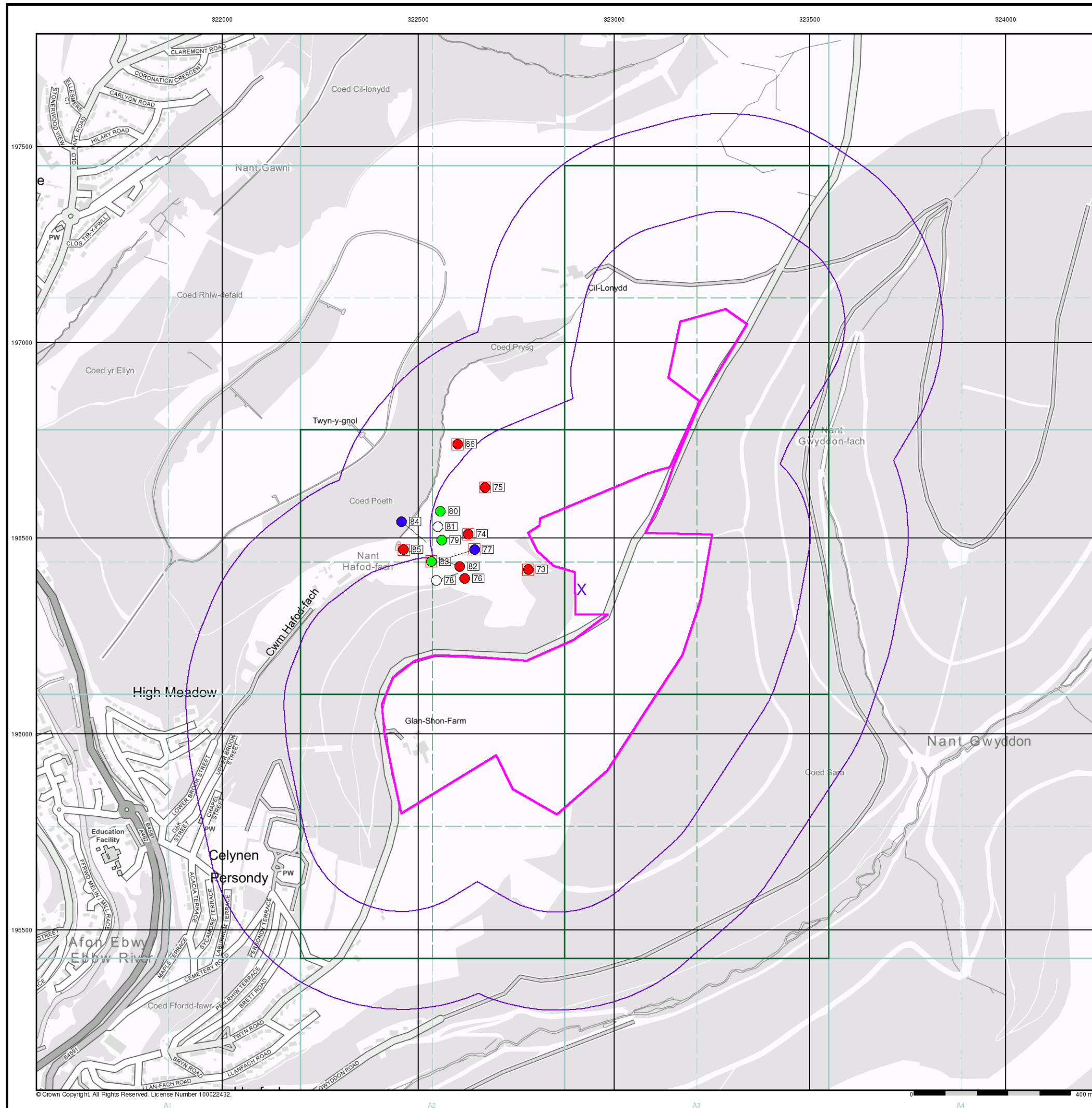


Order Details

Order Number: 315136209_1_1
 Customer Ref: 21966268
 National Grid Reference: 322920, 196370
 Slice: A
 Site Area (Ha): 38.14
 Search Buffer (m): 500

Site Details

Trecelyn South Site





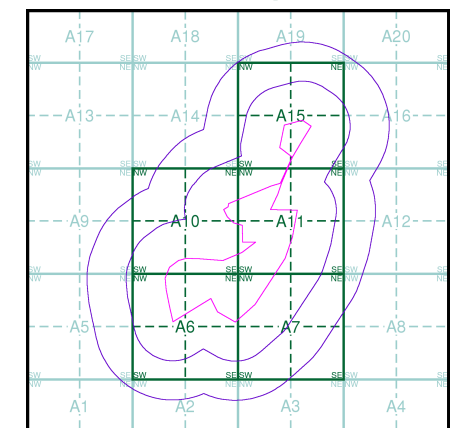
General

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

OS Water Network Data

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

OS Water Network Map - Slice A



Order Details

Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 500

Site Details

Trecelyn South Site



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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit

Sand Pit

Other Pits

Quarry

Shingle

Orchard

Osiers

Reeds

Marsh

Mixed Wood

Deciduous

Brushwood

Fir

Furze

Rough Pasture

Arrow denotes flow of water

Trigonometrical Station

Site of Antiquities

Bench Mark

Pump, Guide Post, Signal Post

Well, Spring, Boundary Post

-285 Surface Level

Sketched Contour

Instrumental Contour

Main Roads

Fenced

Minor Roads

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

BP, BS

Ch

CH

F E Sta

FB

Fn

GP

MP

MS

Boundary Post or Stone

Church

Club House

Fire Engine Station

Foot Bridge

Fountain

Guide Post

Mile Post

Mile Stone

Pol Sta

PO

PC

PH

SB

Spr

TCB

TCP

W

Police Station

Post Office

Public Convenience

Public House

Signal Box

Spring

Telephone Call Box

Telephone Call Post

Well

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

Glasshouse

Direction of Flow of Water

Shingle

Sand

Sloping Masonry

Pylon

Electricity Transmission Line

Pole

Cutting

Embankment

Standard Gauge Multiple Track

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

Civil Parish

Shown only when not coincident with other boundaries

Shown alternately when coincidence of boundaries occurs

BP, BS

Ch

CH

F E Sta

FB

Fn

GP

MP

MS

Boundary Post or Stone

Church

Club House

Fire Engine Station

Foot Bridge

Fountain

Guide Post

Mile Post

Mile Stone

Pol Sta

PO

PC

PH

SB

Spr

TCB

TCP

W

Police Station

Post Office

Public Convenience

Public House

Signal Box

Spring

Telephone Call Box

Telephone Call Post

Well

1:10,000 Raster Mapping

Gravel Pit

Rock

Boulders

Shingle

Sand

Slopes

General detail

Overhead detail

Multi-track railway

County boundary (England only)

District, Unitary, Metropolitan, London Borough boundary

Area of wooded vegetation

Non-coniferous trees (scattered)

Coniferous trees (scattered)

Orchard

Rough Grassland

Scrub

Water feature

MHW(S) Mean high water (springs)

Telephone line (where shown)

Bench mark (where shown)

Point feature (e.g. Guide Post or Mile Stone)

Site of (antiquity)

General Building

Refuse tip or slag heap

Rock (scattered)

Boulders (scattered)

Mud

Sand Pit

Top of cliff

Underground detail

Narrow gauge railway

Single track railway

Civil, parish or community boundary

Constituency boundary

Non-coniferous trees

Coniferous trees

Positioned tree

Coppice or Osiers

Heath

Marsh, Salt Marsh or Reeds

Flow arrows

MLW(S) Mean low water (springs)

Electricity transmission line (with poles)

Triangulation station

Pylon, flare stack or lighting tower

Glasshouse

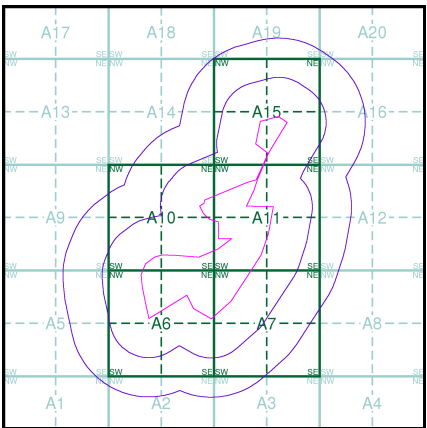
Important Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1886	2
Monmouthshire	1:10,560	1901 - 1902	3
Monmouthshire	1:10,560	1922	4
Monmouthshire	1:10,560	1938 - 1953	5
Monmouthshire	1:10,560	1938 - 1953	6
Monmouthshire	1:10,560	1953	7
Ordnance Survey Plan	1:10,000	1965	8
Ordnance Survey Plan	1:10,000	1983	9
Ordnance Survey Plan	1:10,000	1990	10
10K Raster Mapping	1:10,000	1999	11
Street View	Variable		12

Historical Map - Slice A



Order Details

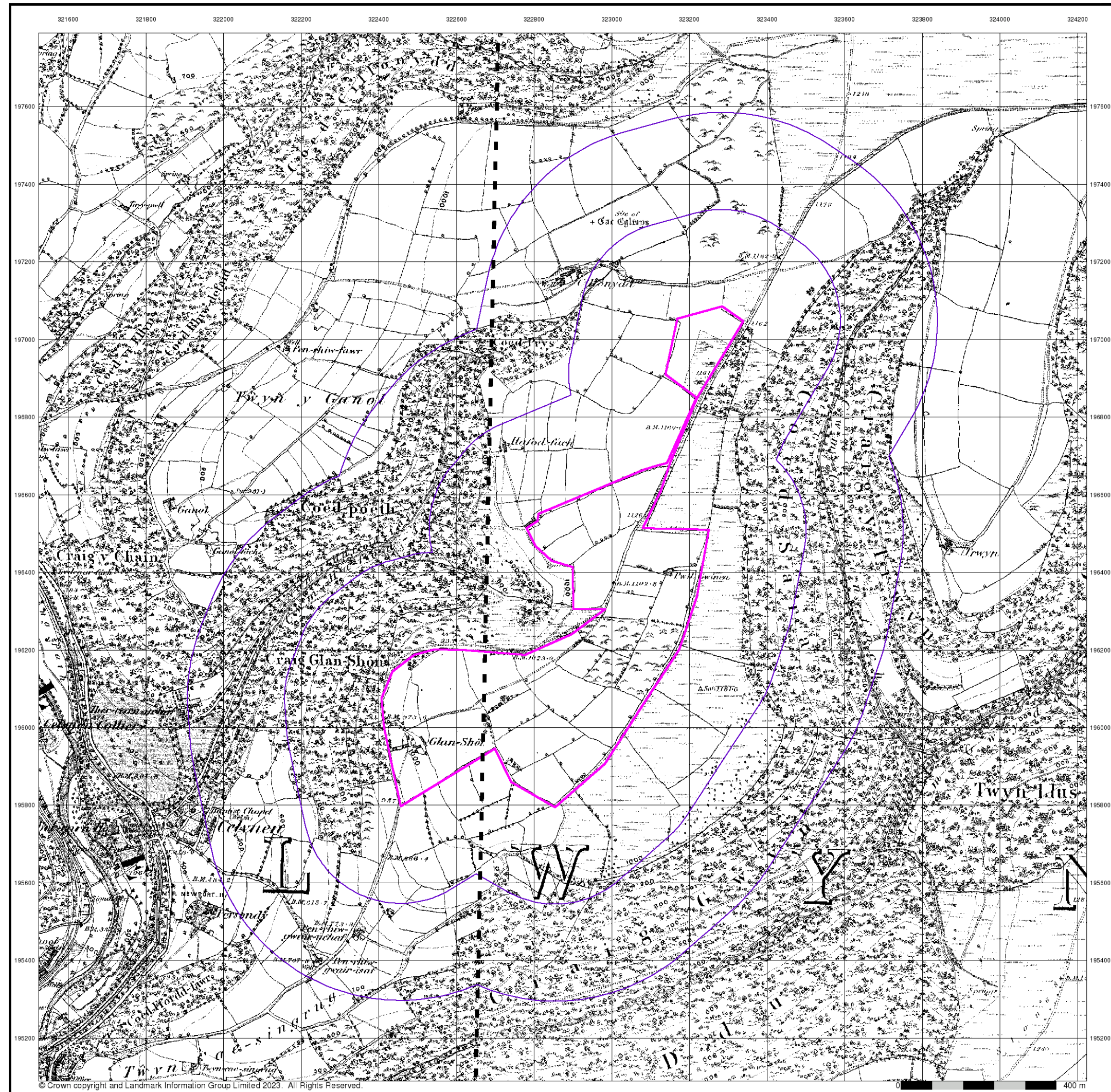
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 500

Site Details

Trecelyn South Site



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wood.

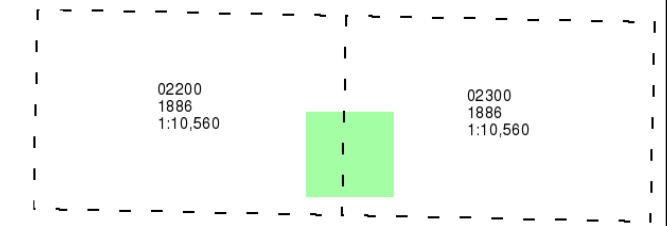
Monmouthshire

Published 1886

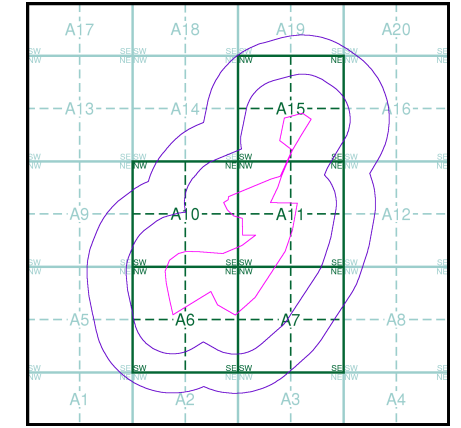
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

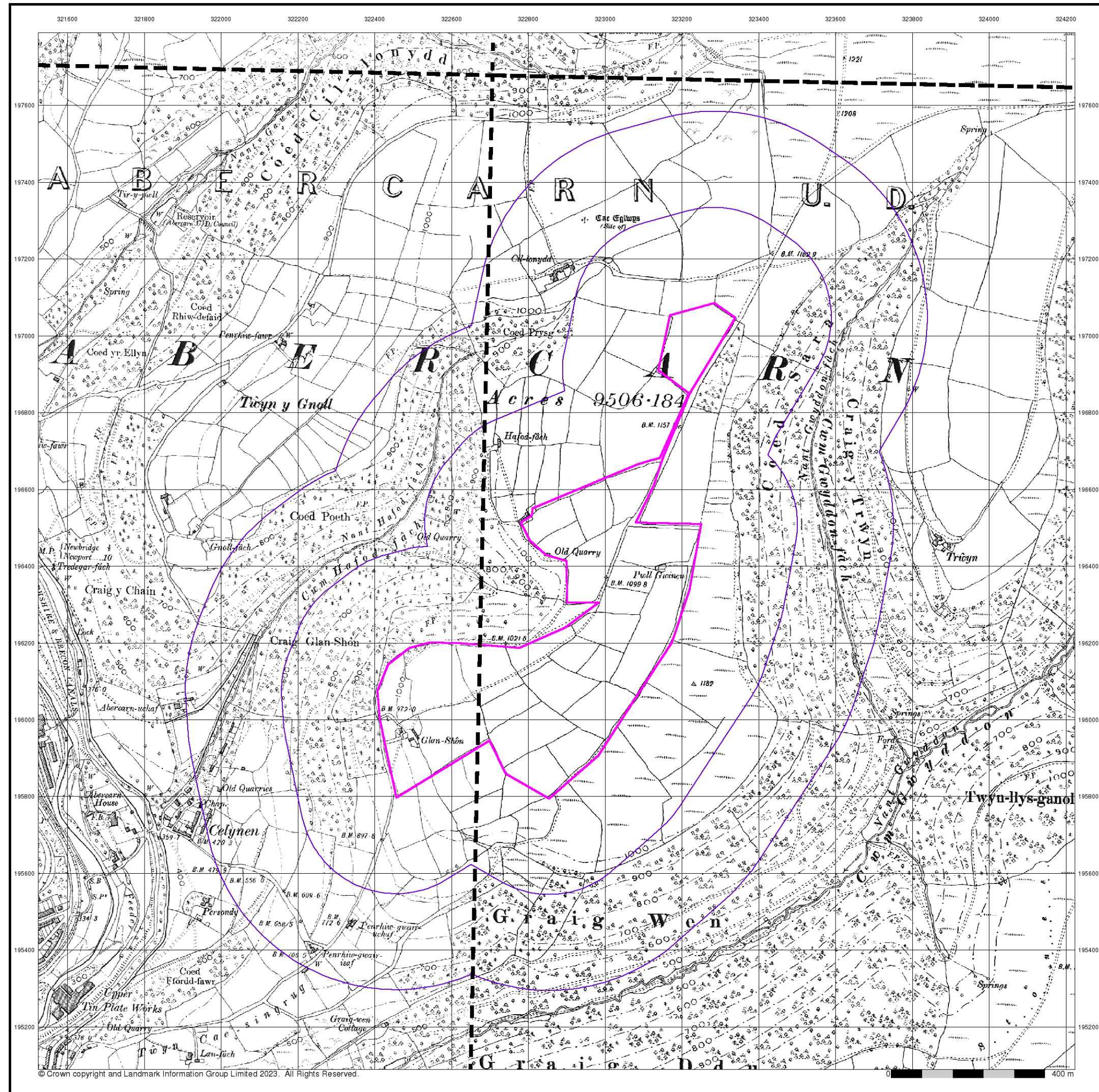
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 500

Site Details

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wood.

Monmouthshire

Published 1901 - 1902

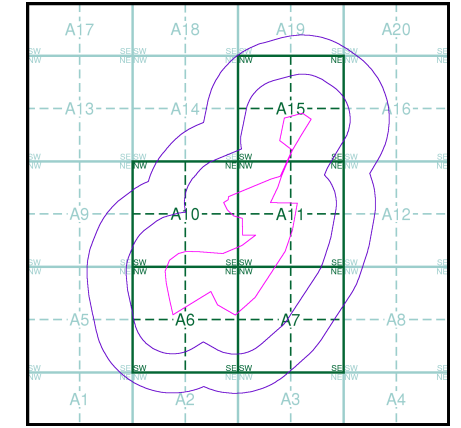
Source map scale - 1:10,560

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)

022NE 1902 1:10,560	023NW 1901 1:10,560
022SE 1902 1:10,560	023SW 1902 1:10,560

Historical Map - Slice A



Order Details

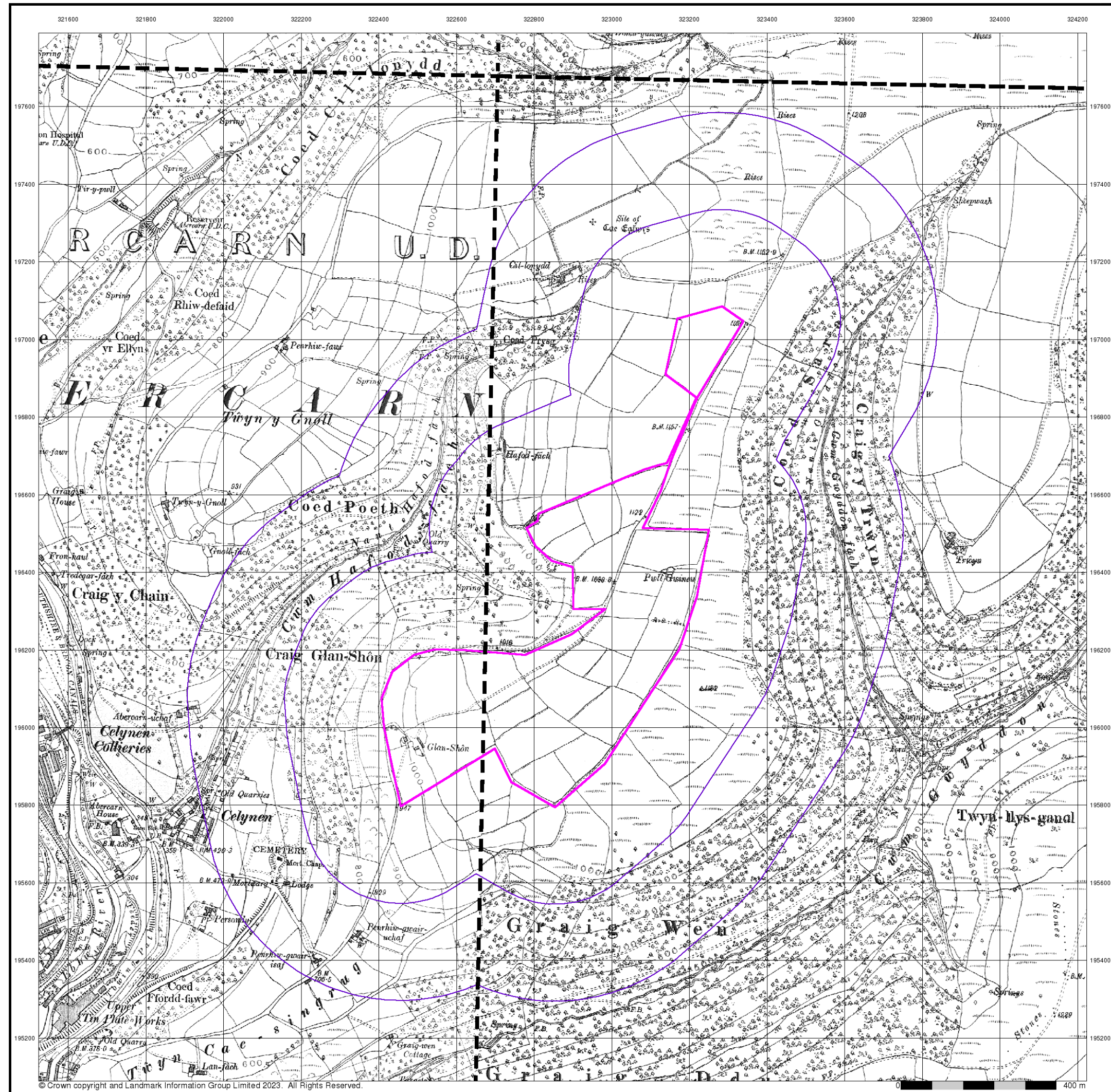
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 500

Site Details

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Monmouthshire

Published 1922

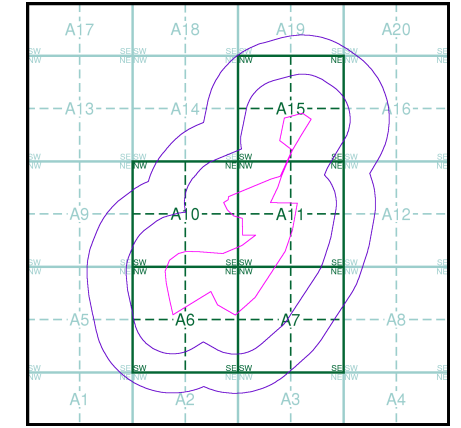
Source map scale - 1:10,560

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)

022NE 1922 1:10,560	023NW 1922 1:10,560
022SE 1922 1:10,560	023SW 1922 1:10,560

Historical Map - Slice A



Order Details

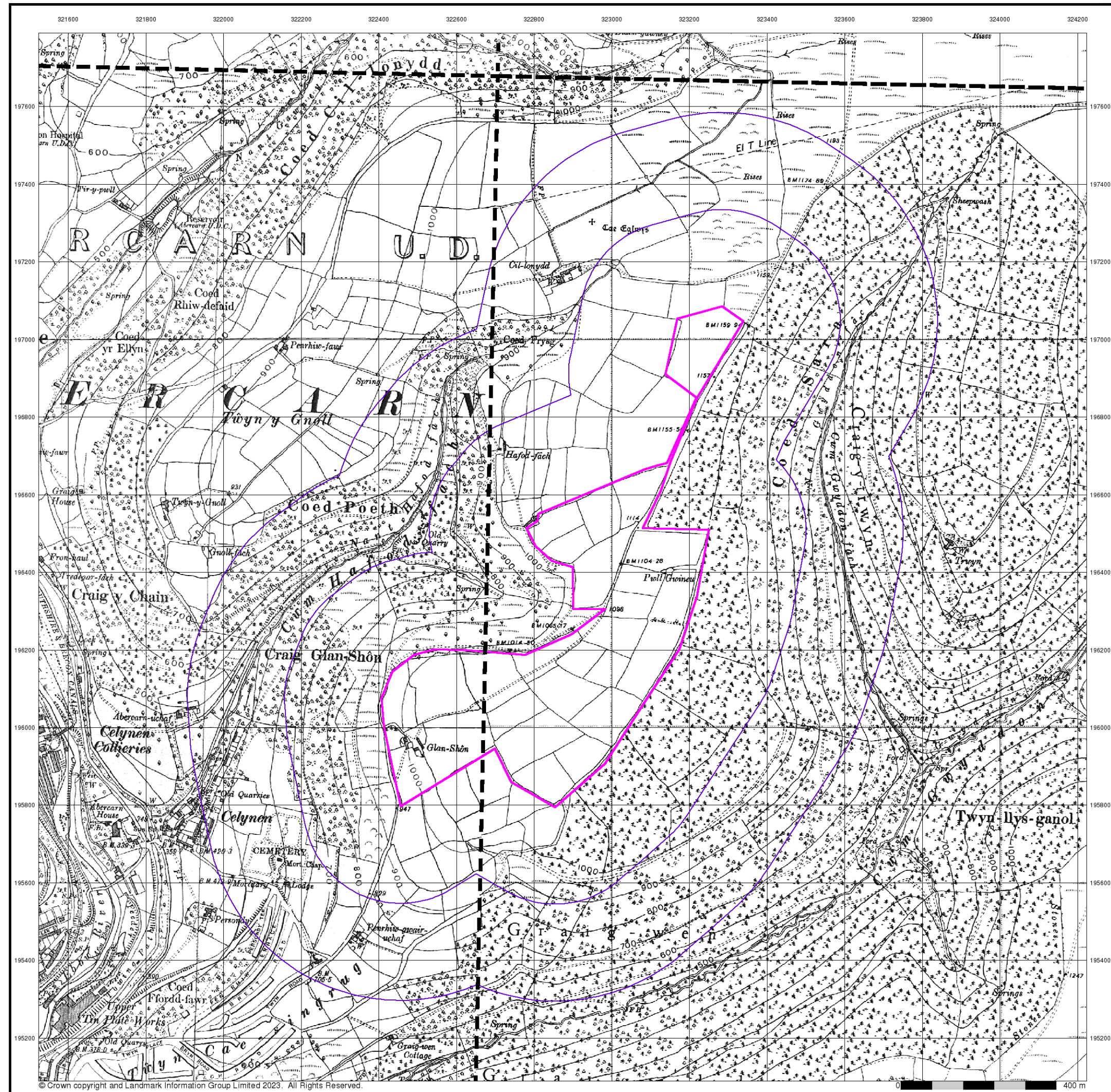
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 500

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Monmouthshire

Published 1938 - 1953

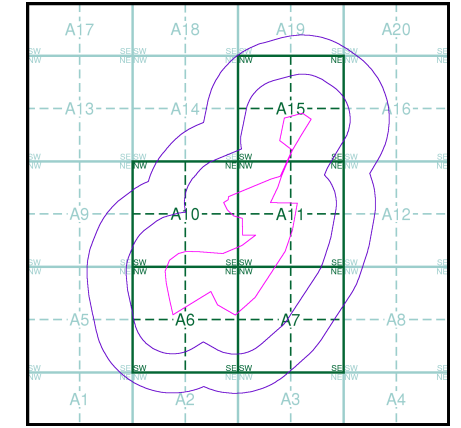
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

022NE 1938 1:10,560	023NW 1938 1:10,560
022SE 1938 1:10,560	023SW 1953 1:10,560

Historical Map - Slice A



Order Details

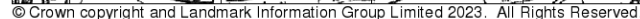
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Customer Ref: 21966268
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Slice: A
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Search Buffer (m): 500

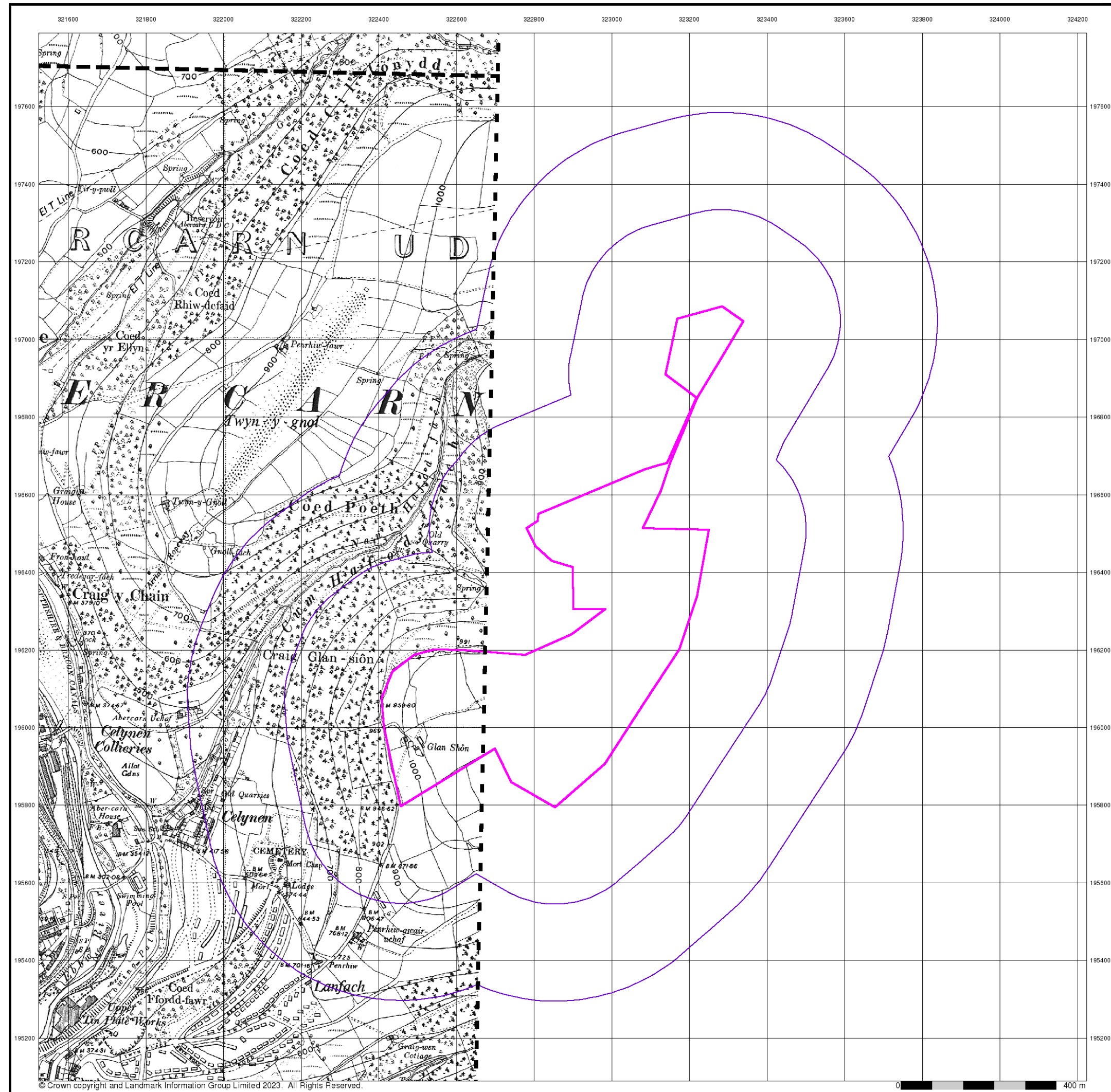
Site Details

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Monmouthshire

Published 1953

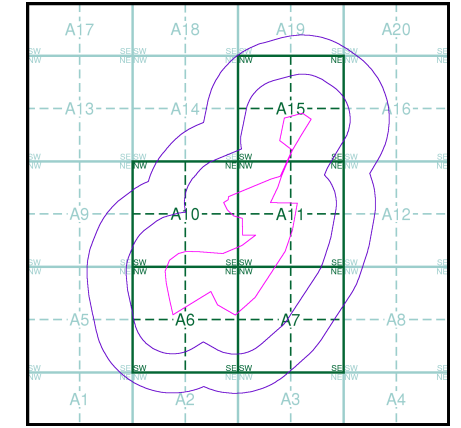
Source map scale - 1:10,560

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)

022NE	1953	1:10,560
022SE	1953	1:10,560

Historical Map - Slice A



Order Details

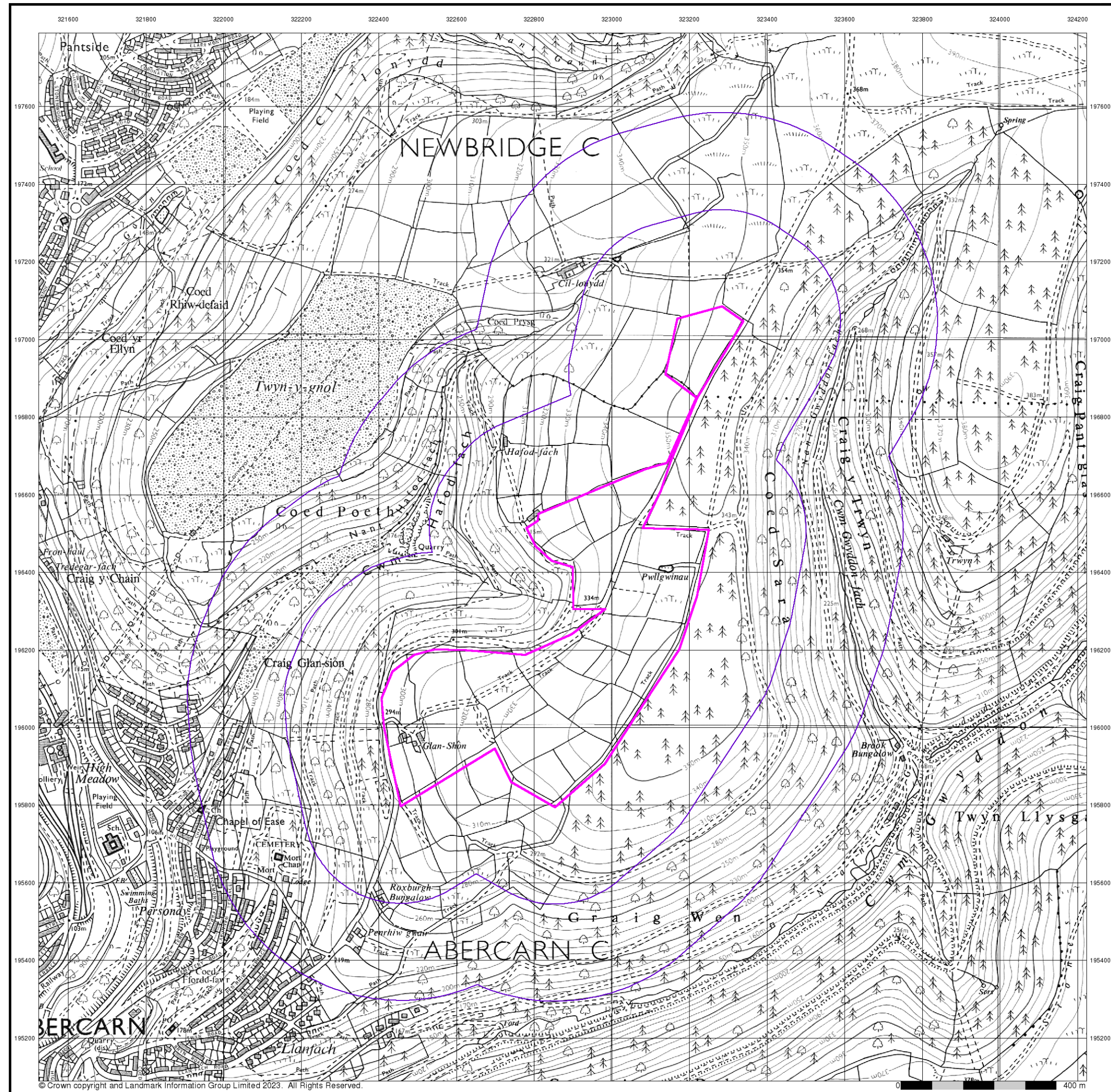
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Customer Ref:	21966268
National Grid Reference:	322920, 196370
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Site Area (Ha):	38.14
Search Buffer (m):	500

Site Details

Trecelyn South Site



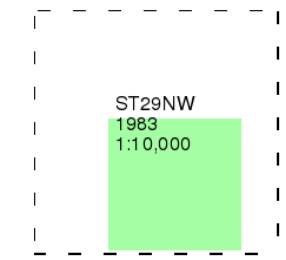
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



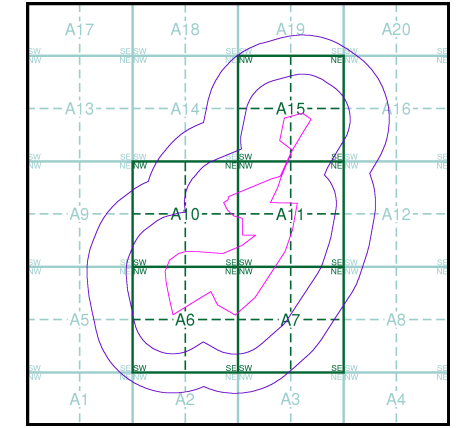
Ordnance Survey Plan
Published 1983
Source map scale - 1:10,000

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

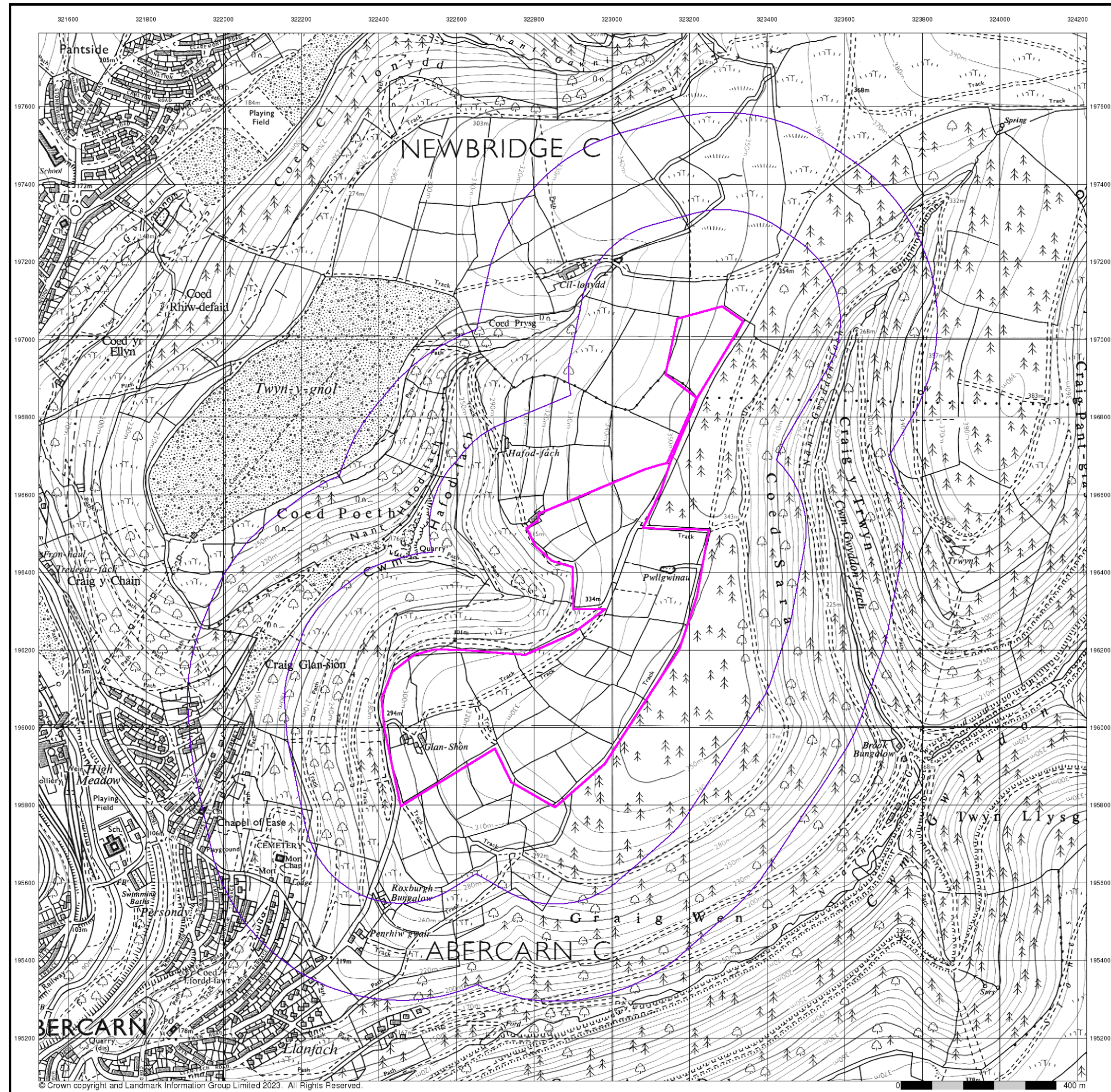
Order Number: 315136209_1_1
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National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 500

Site Details

Trecelyn South Site



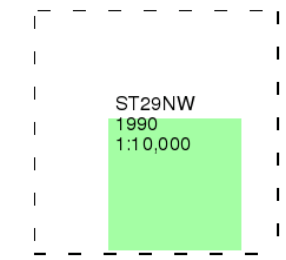
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



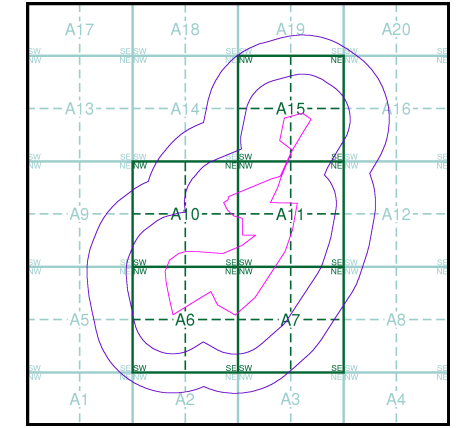
Ordnance Survey Plan
Published 1990
Source map scale - 1:10,000

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: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 500

Site Details

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Historical Mapping Legends

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



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



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

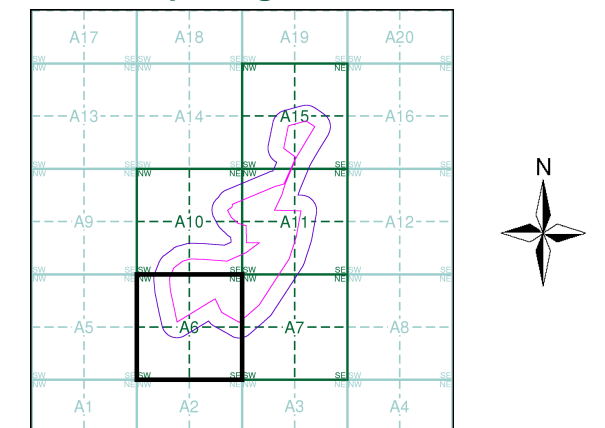


wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1879	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:1,250	1962	6
Additional SIMs	1:2,500	1987	7
Additional SIMs	1:2,500	1989	8
Large-Scale National Grid Data	1:2,500	1993	9
Large-Scale National Grid Data	1:1,250	1993	10

Historical Map - Segment A6



Order Details

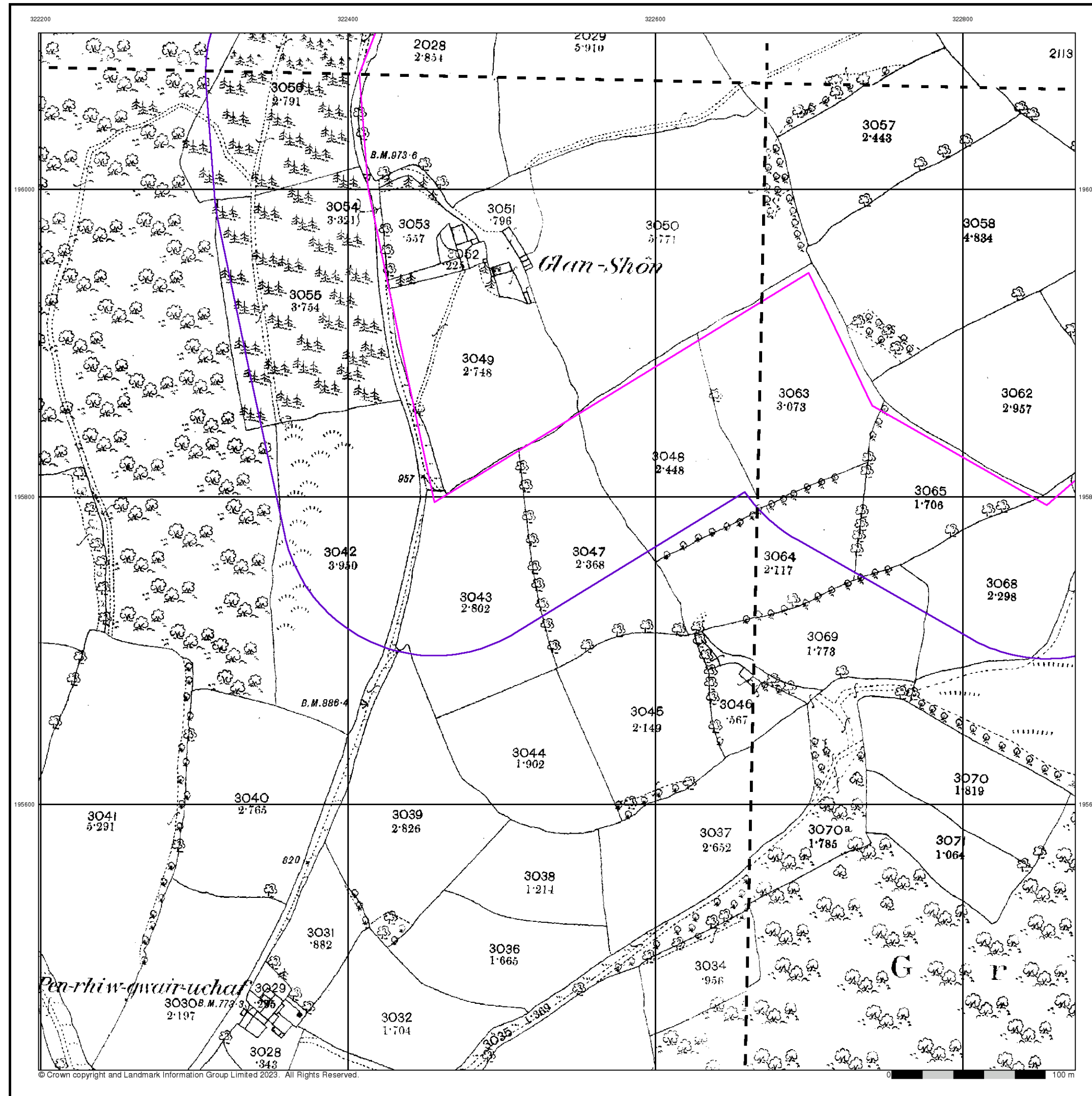
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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Monmouthshire

Published 1879

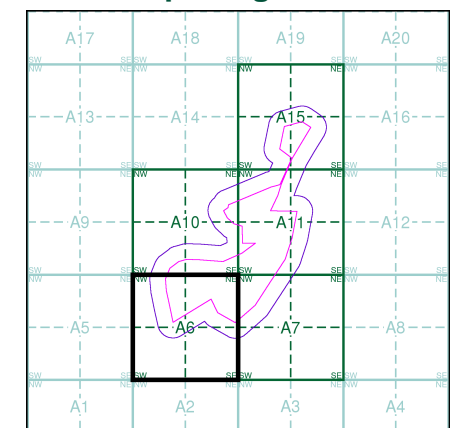
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

022_12 1879 1:2,500	023_09 1879 1:2,500
022_16 1879 1:2,500	023_13 1879 1:2,500

Historical Map - Segment A6



Order Details

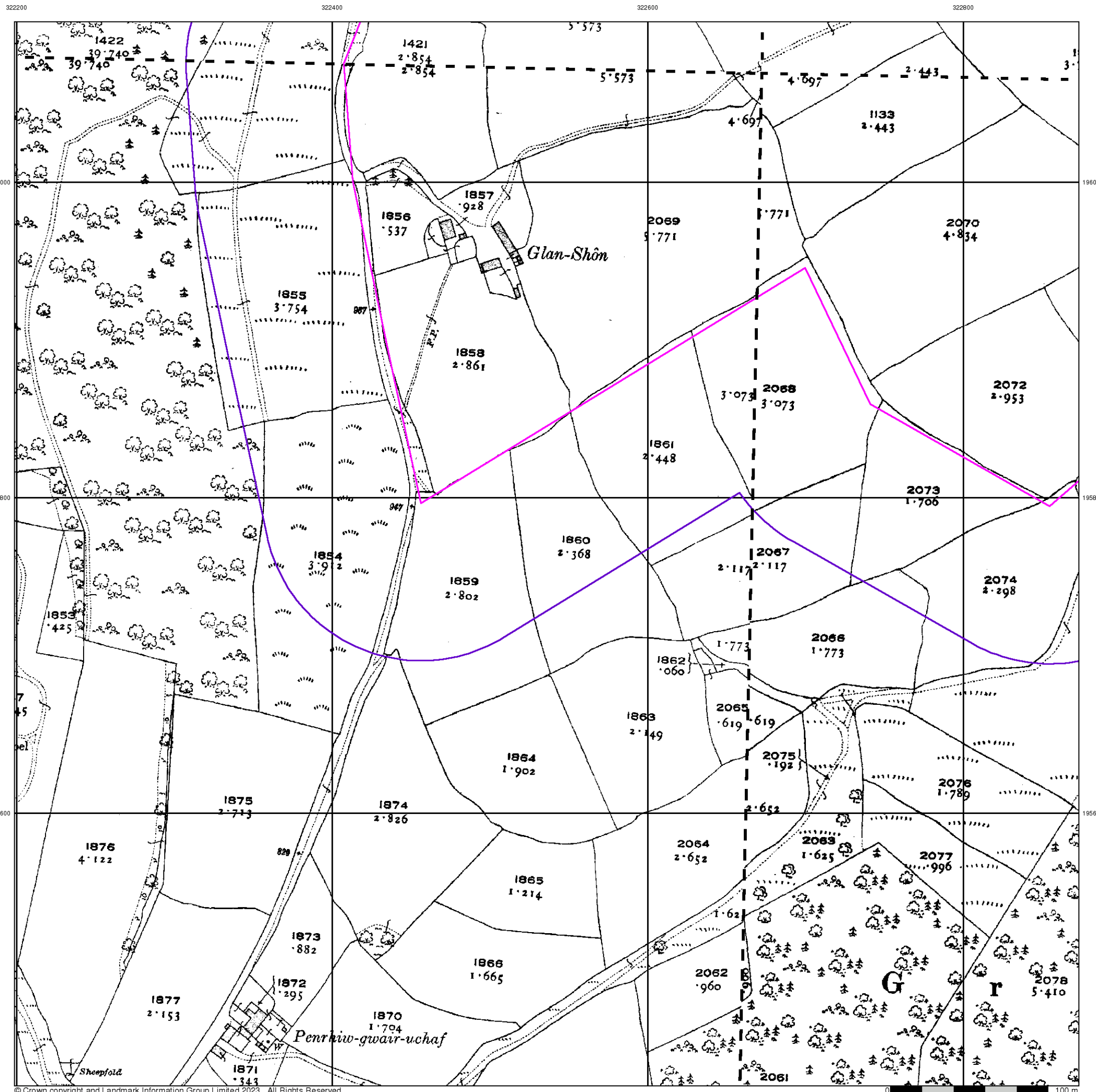
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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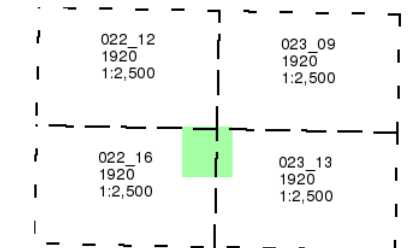
Monmouthshire

Published 1920

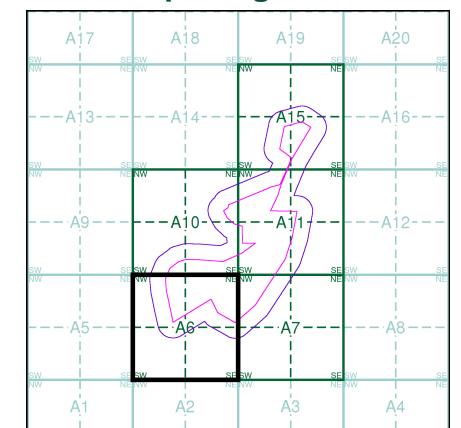
Source map scale - 1:2,500

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 A6



Order Details

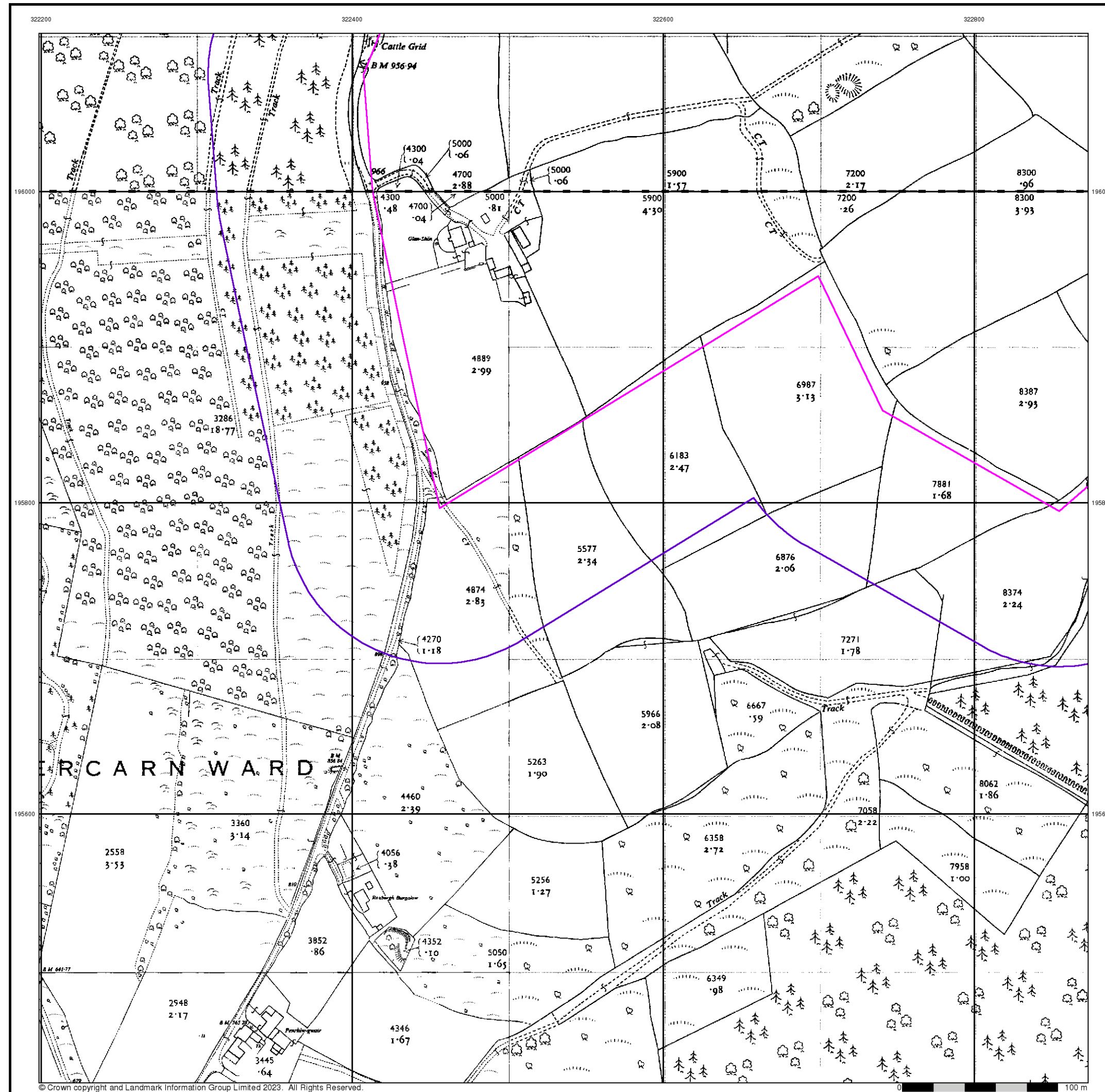
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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wood.

Ordnance Survey Plan

Published 1962

Source map scale - 1:2,500

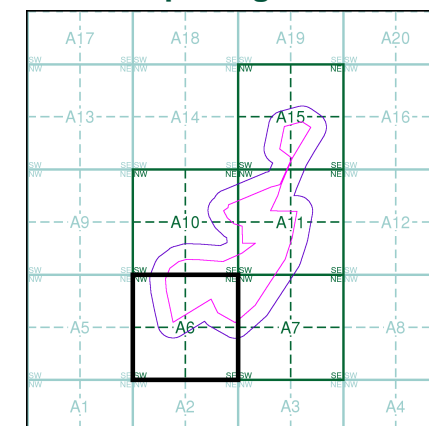
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)

ST2296
1962
1:2,500

ST2295
1962
1:2,500

Historical Map - Segment A6



Order Details

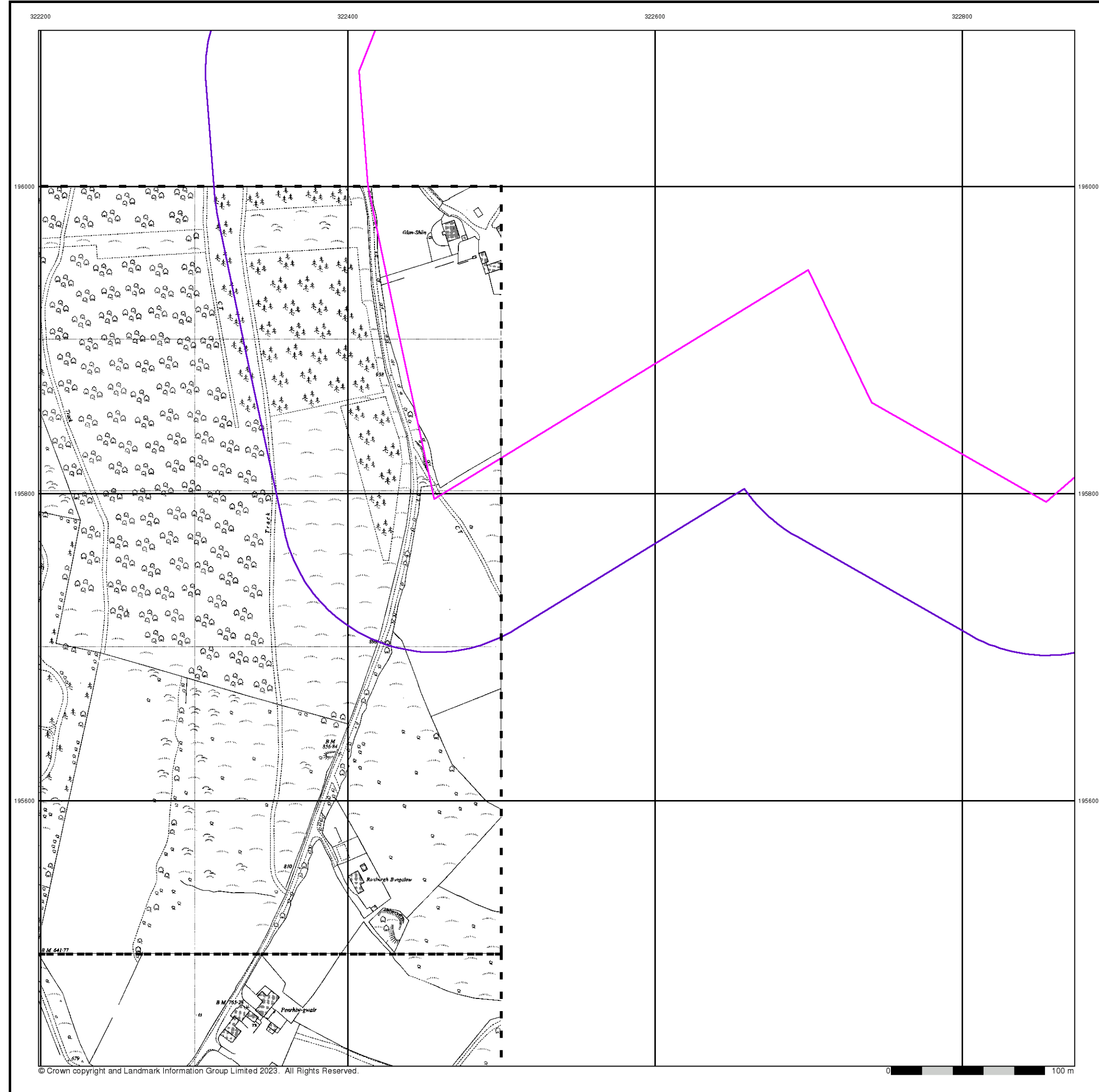
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

Trecelyn South Site

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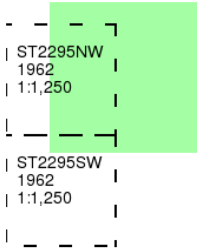
Ordnance Survey Plan

Published 1962

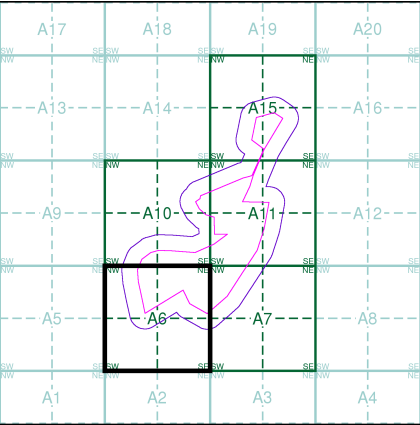
Source map scale - 1:1,250

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 A6



Order Details

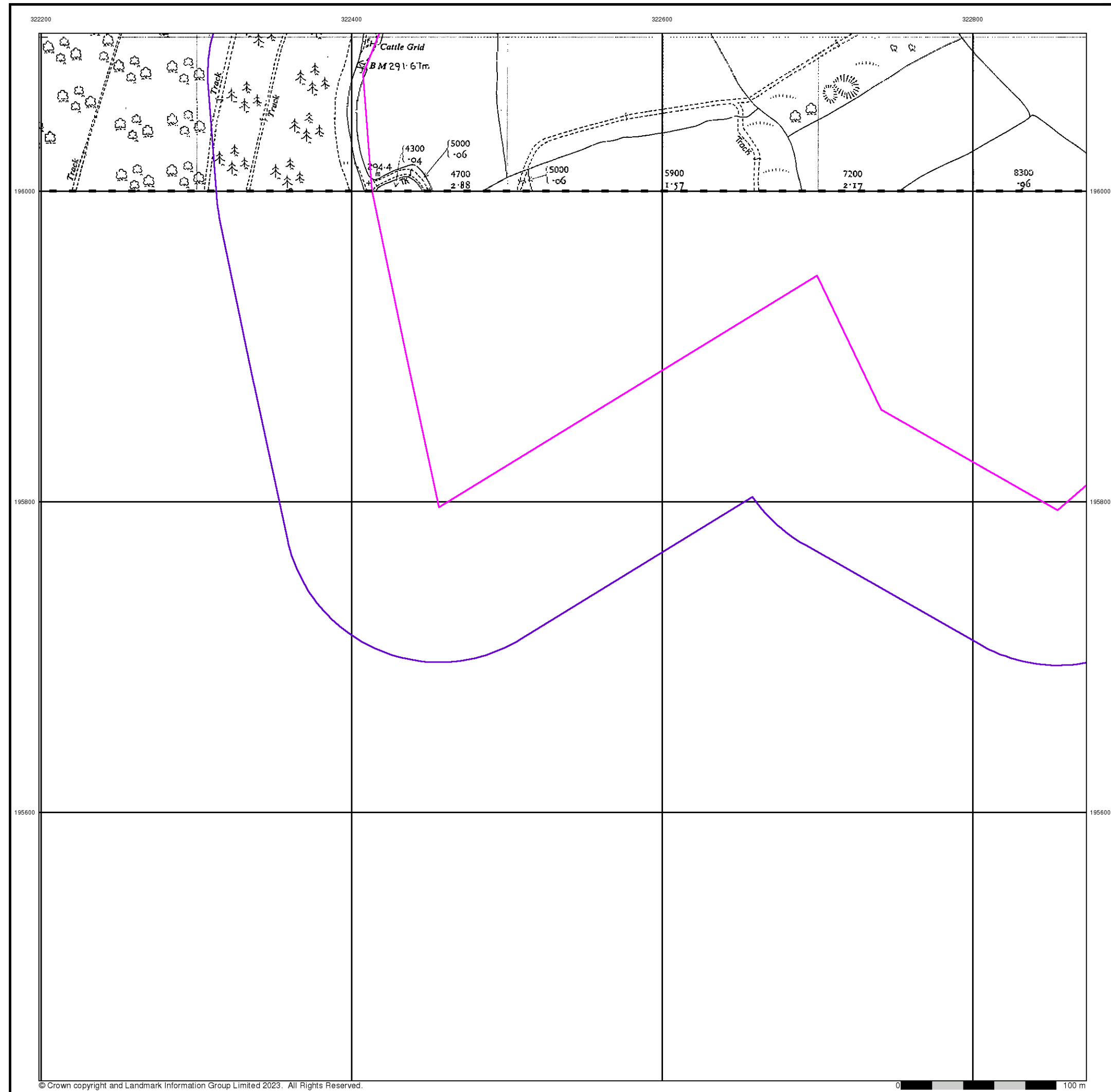
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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wood.

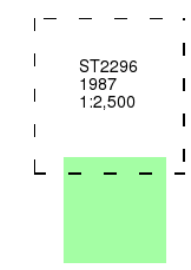
Additional SIMs

Published 1987

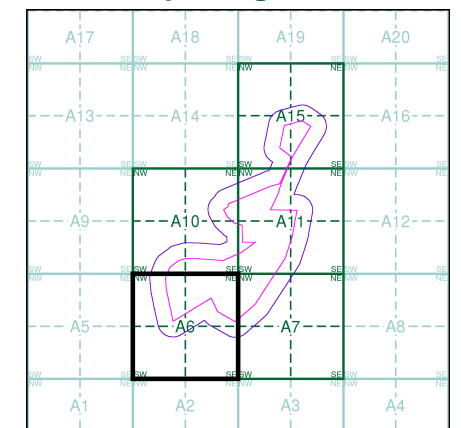
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

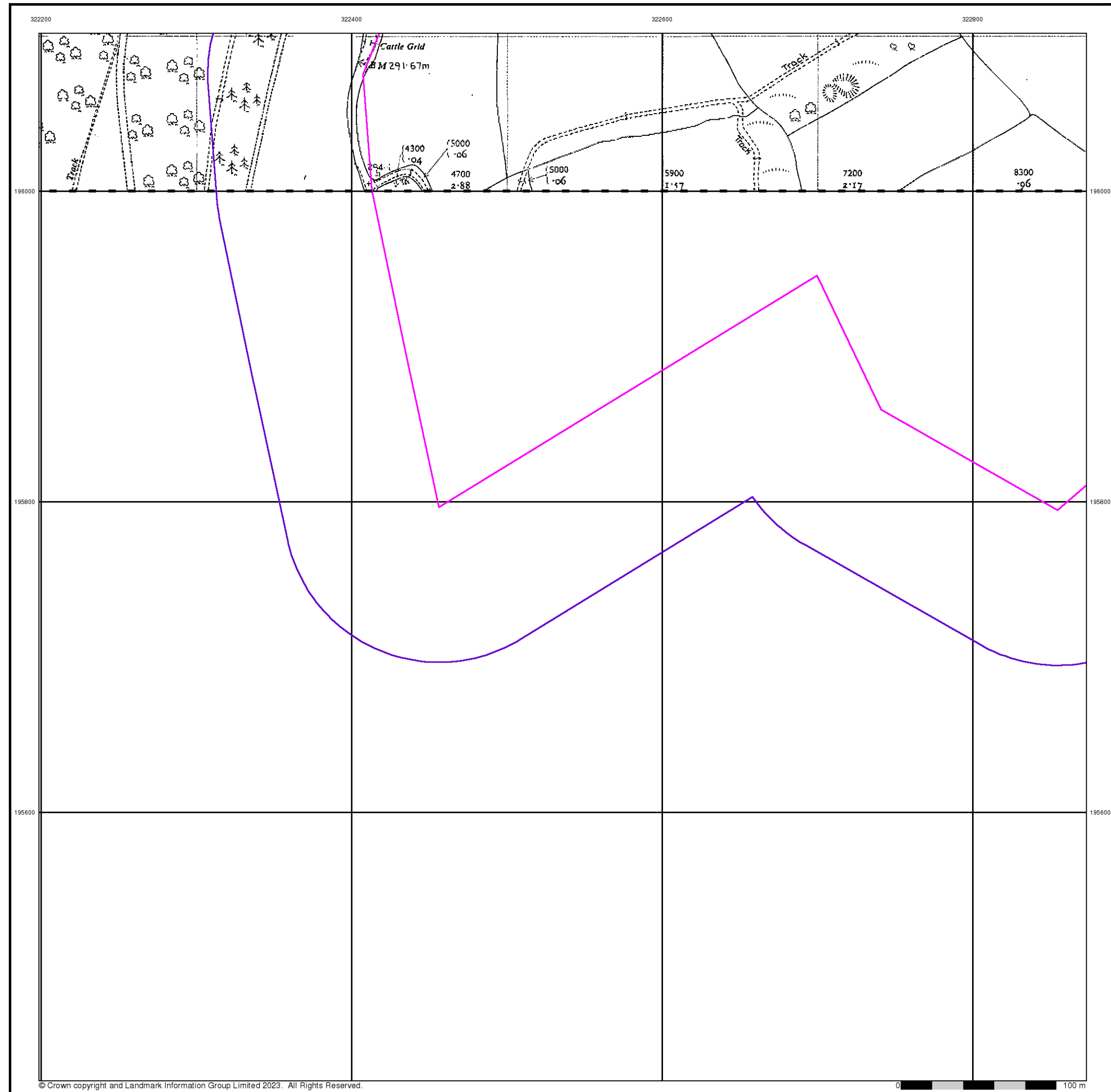
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

Trecelyn South Site

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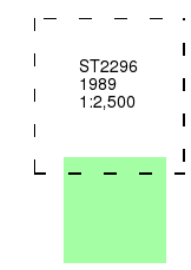
Additional SIMs

Published 1989

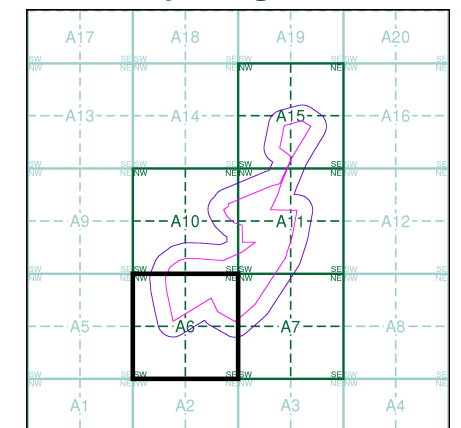
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

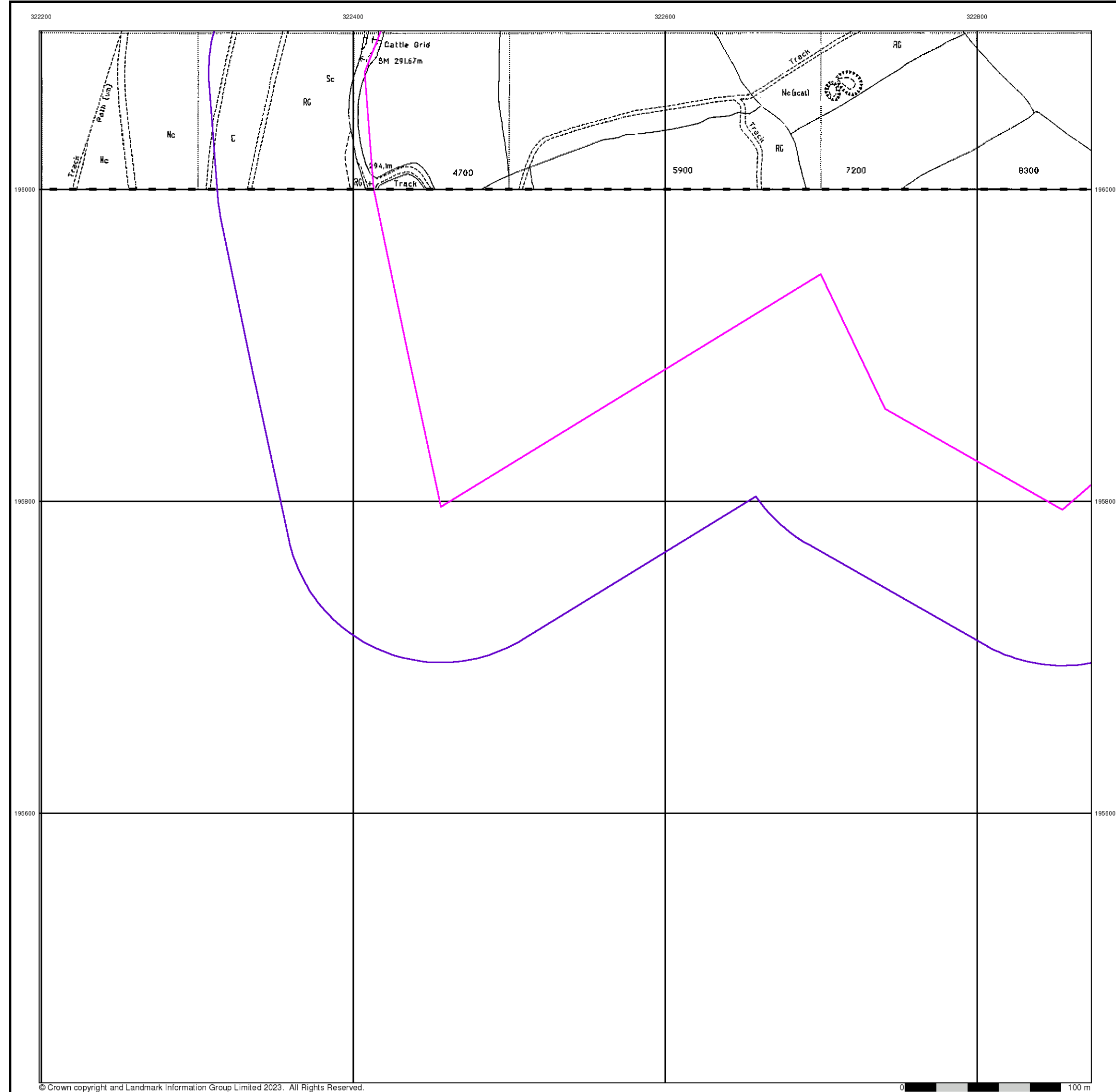
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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Web: www.envirocheck.co.uk



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0 100 m

wood.

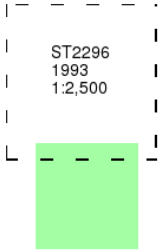
Large-Scale National Grid Data

Published 1993

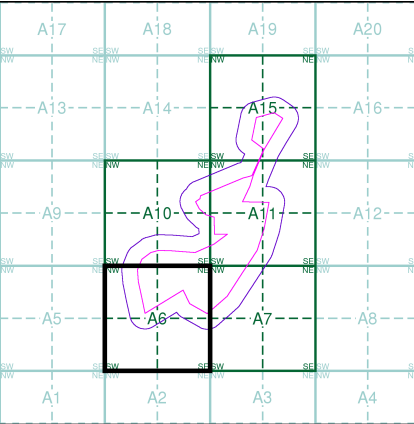
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

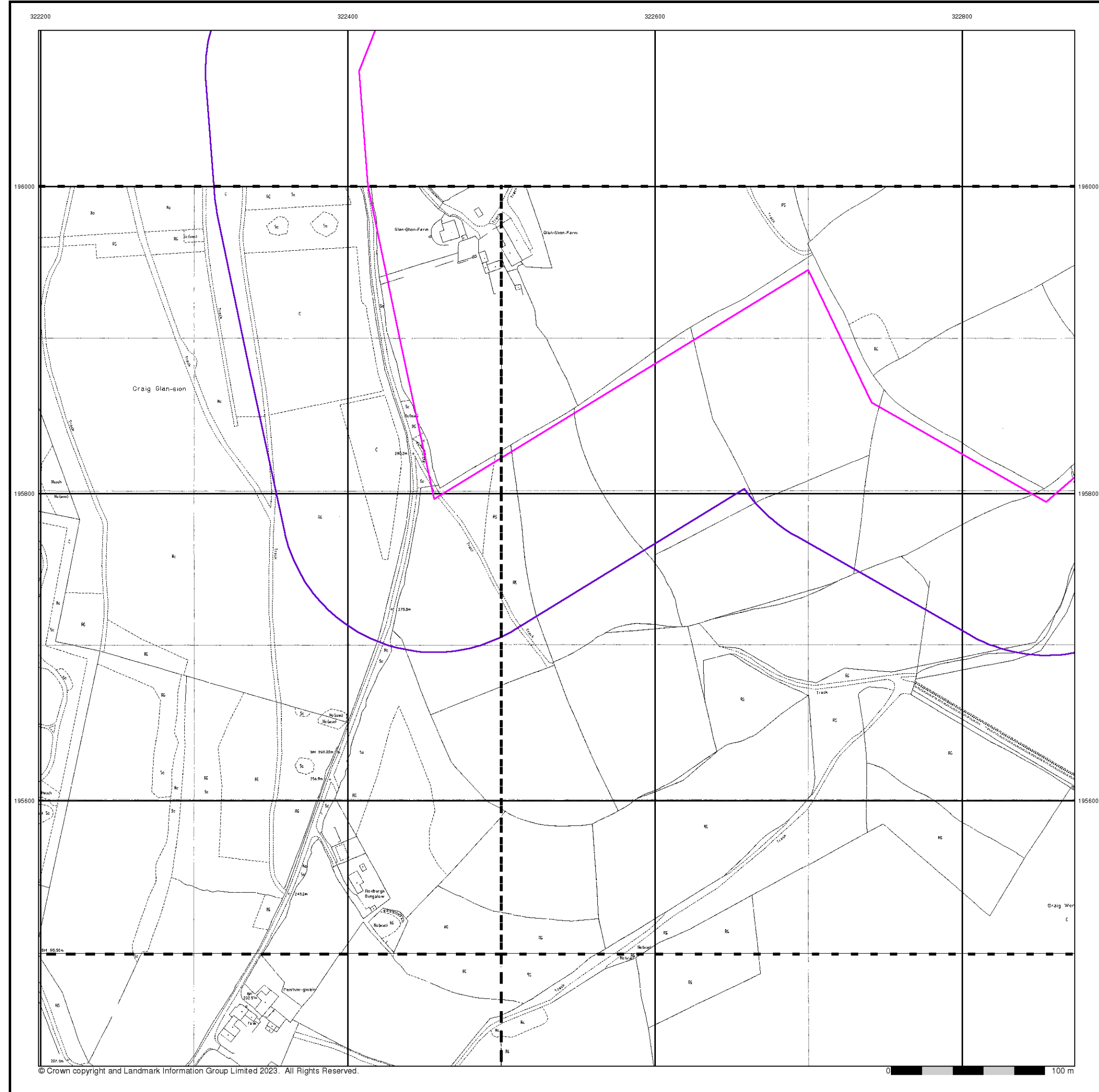
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

Trecelyn South Site

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Large-Scale National Grid Data

Published 1993

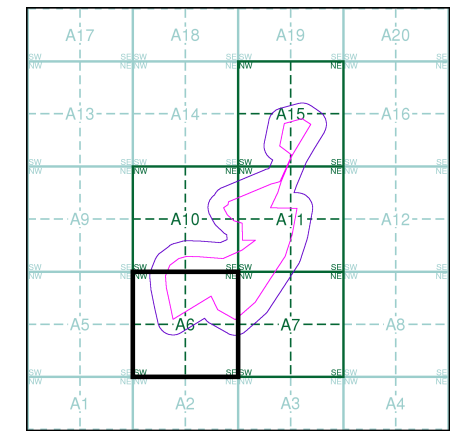
Source map scale - 1:1,250

'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)

ST2295NW	ST2295NE
1993	1993
1:1,250	1:1,250
ST2295SW	ST2295SE
1993	1993
1:1,250	1:1,250

Historical Map - Segment A6



Order Details

Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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Historical Mapping Legends

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



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



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

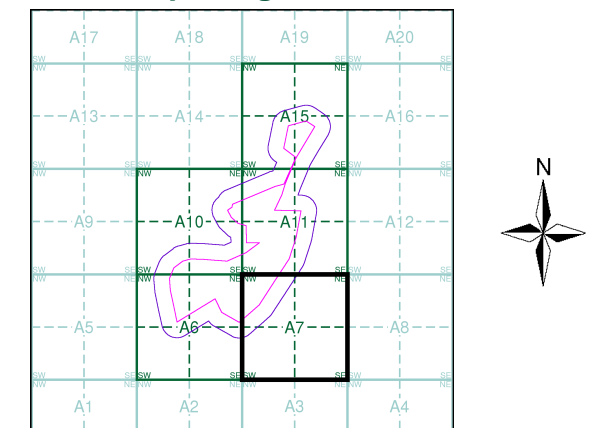


wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1879	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:2,500	1962	5
Additional SIMs	1:2,500	1987	6
Additional SIMs	1:2,500	1989	7
Large-Scale National Grid Data	1:1,250	1993	8
Large-Scale National Grid Data	1:2,500	1993	9

Historical Map - Segment A7



Order Details

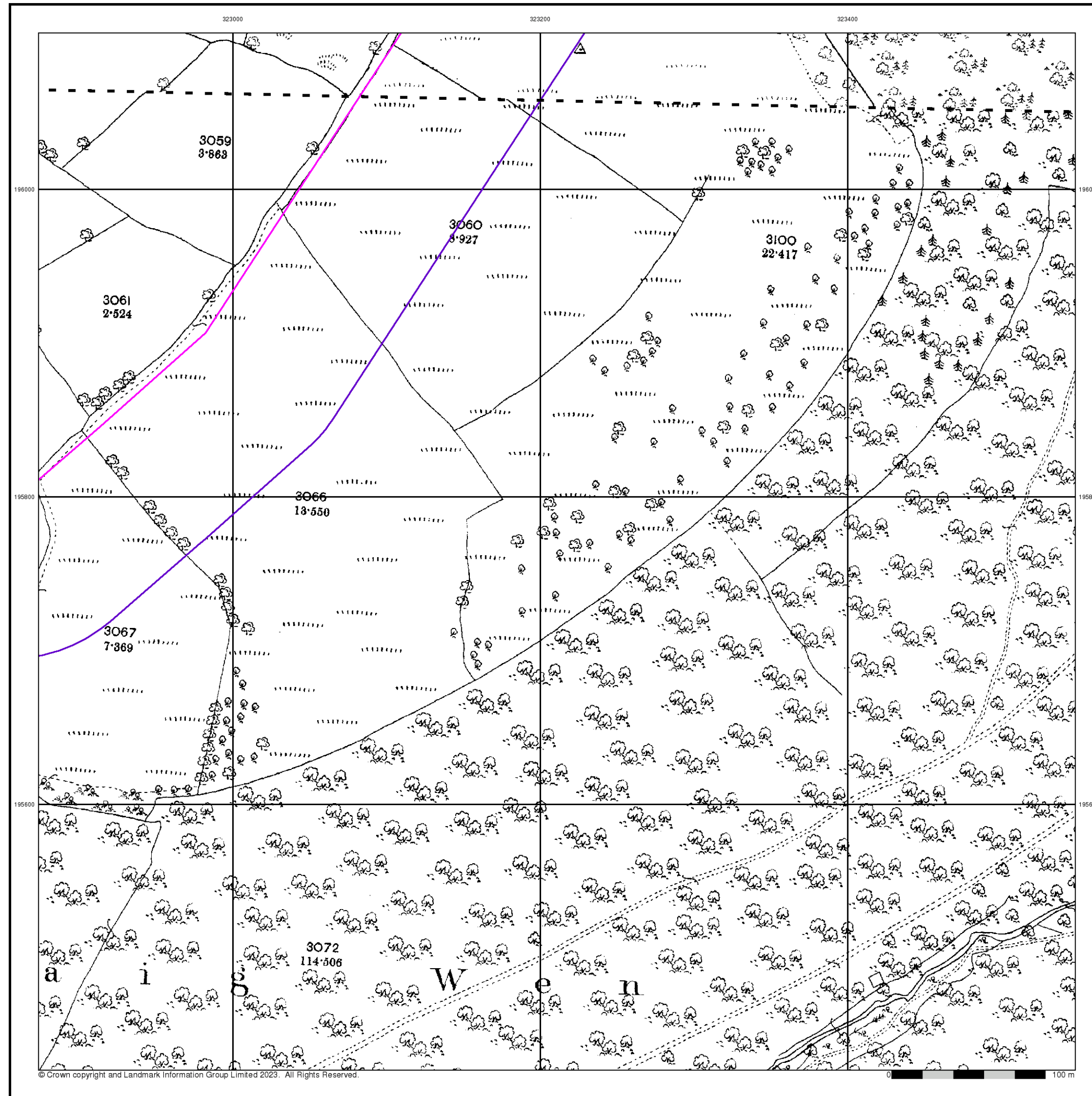
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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Monmouthshire

Published 1879

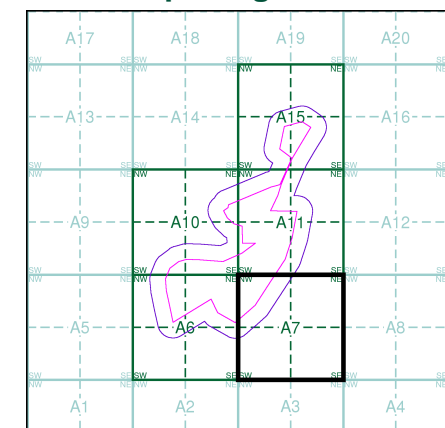
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

023_09
1879
1:2,500
023_13
1879
1:2,500

Historical Map - Segment A7



Order Details

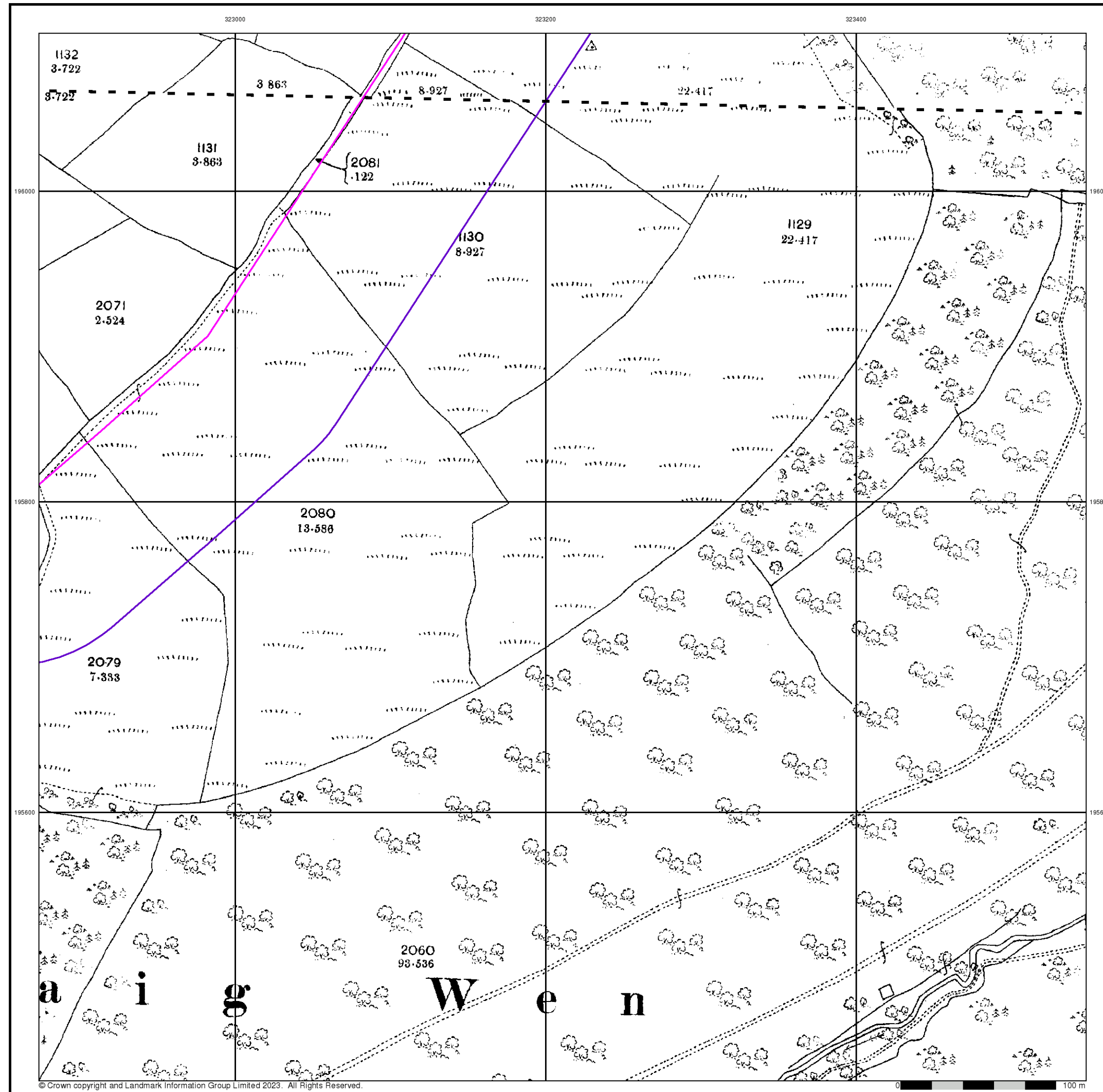
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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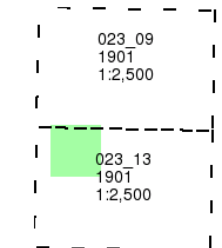
Monmouthshire

Published 1901

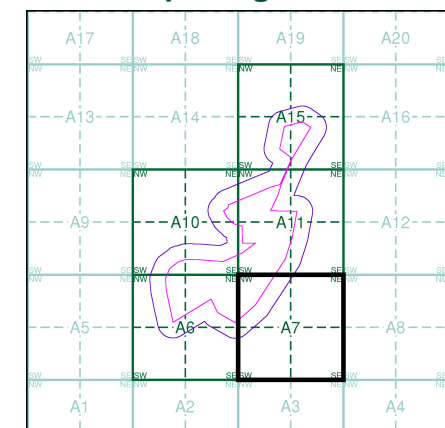
Source map scale - 1:2,500

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 A7



Order Details	
Order Number:	315136209_1_1
Customer Ref:	21966268
National Grid Reference:	322920, 196370
Slice:	A
Site Area (Ha):	38.14
Search Buffer (m):	100

Site Details

Trecelyn South Site

wood.

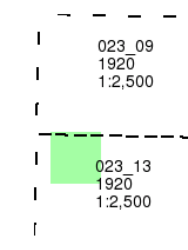
Monmouthshire

Published 1920

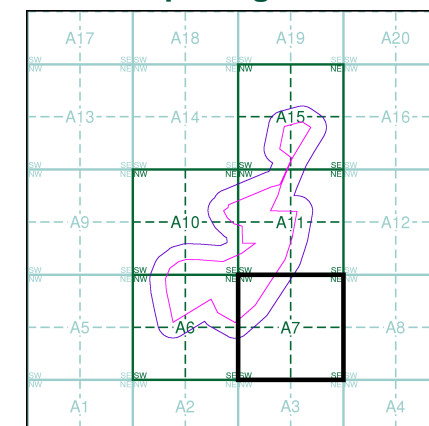
Source map scale - 1:2,500

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 A7



Order Details

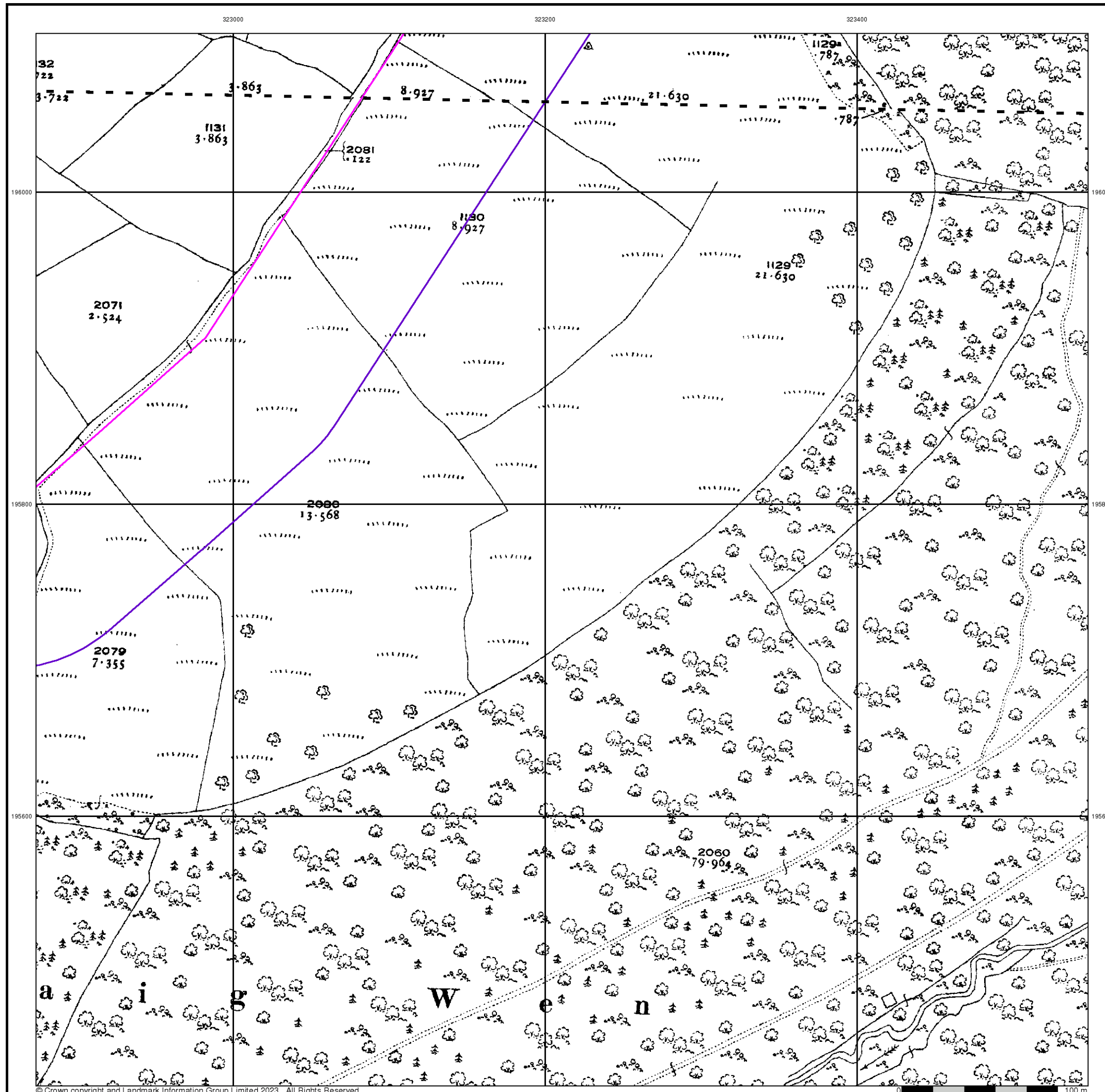
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Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

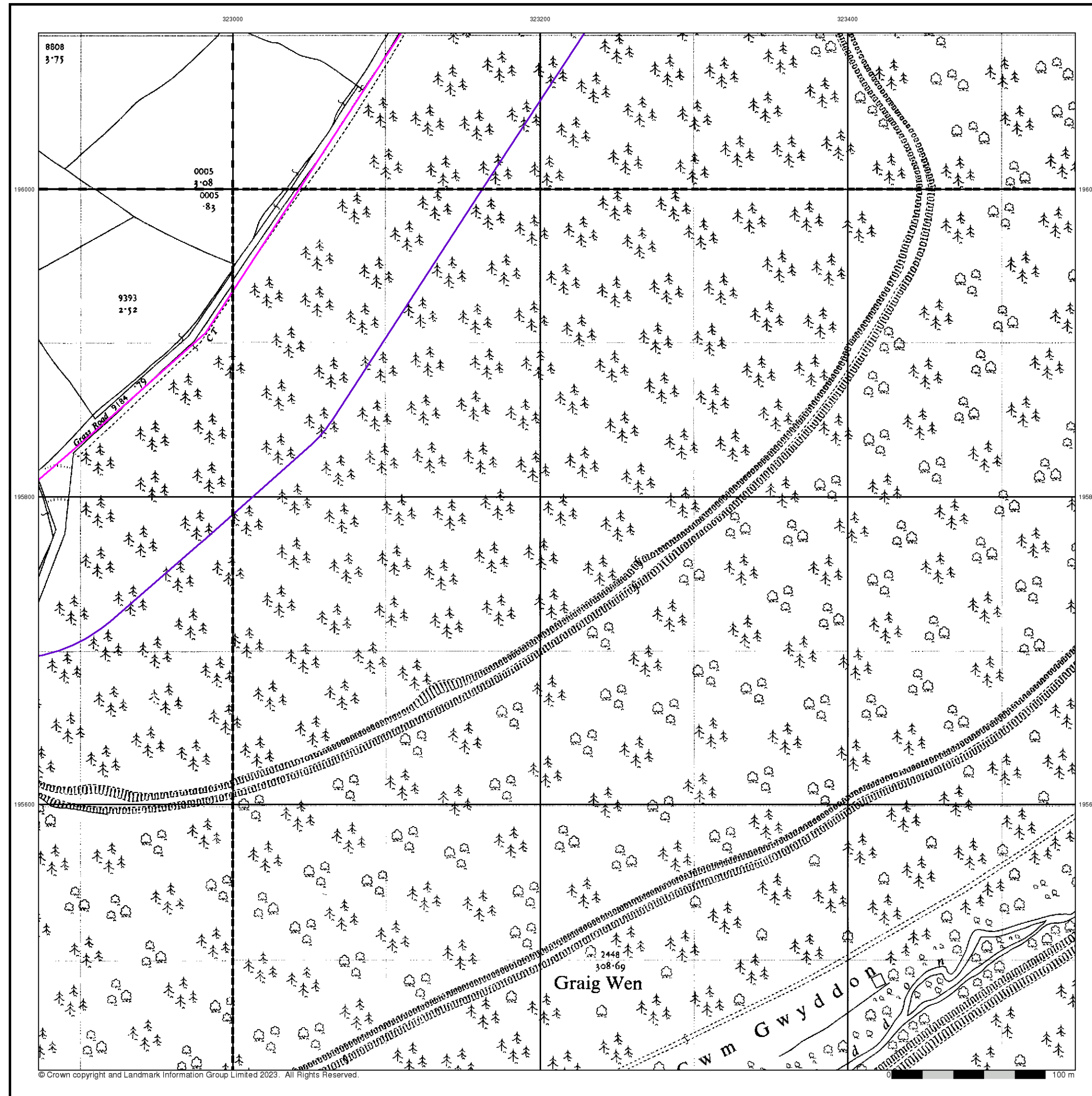
Site Details

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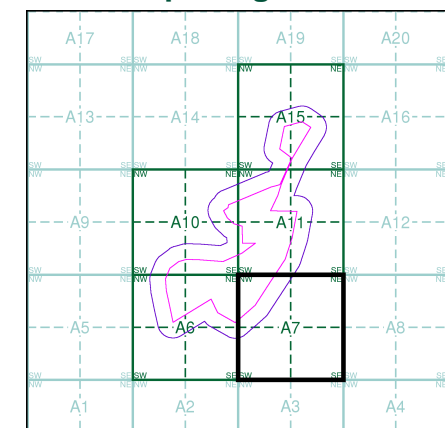
Ordnance Survey Plan
Published 1962
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

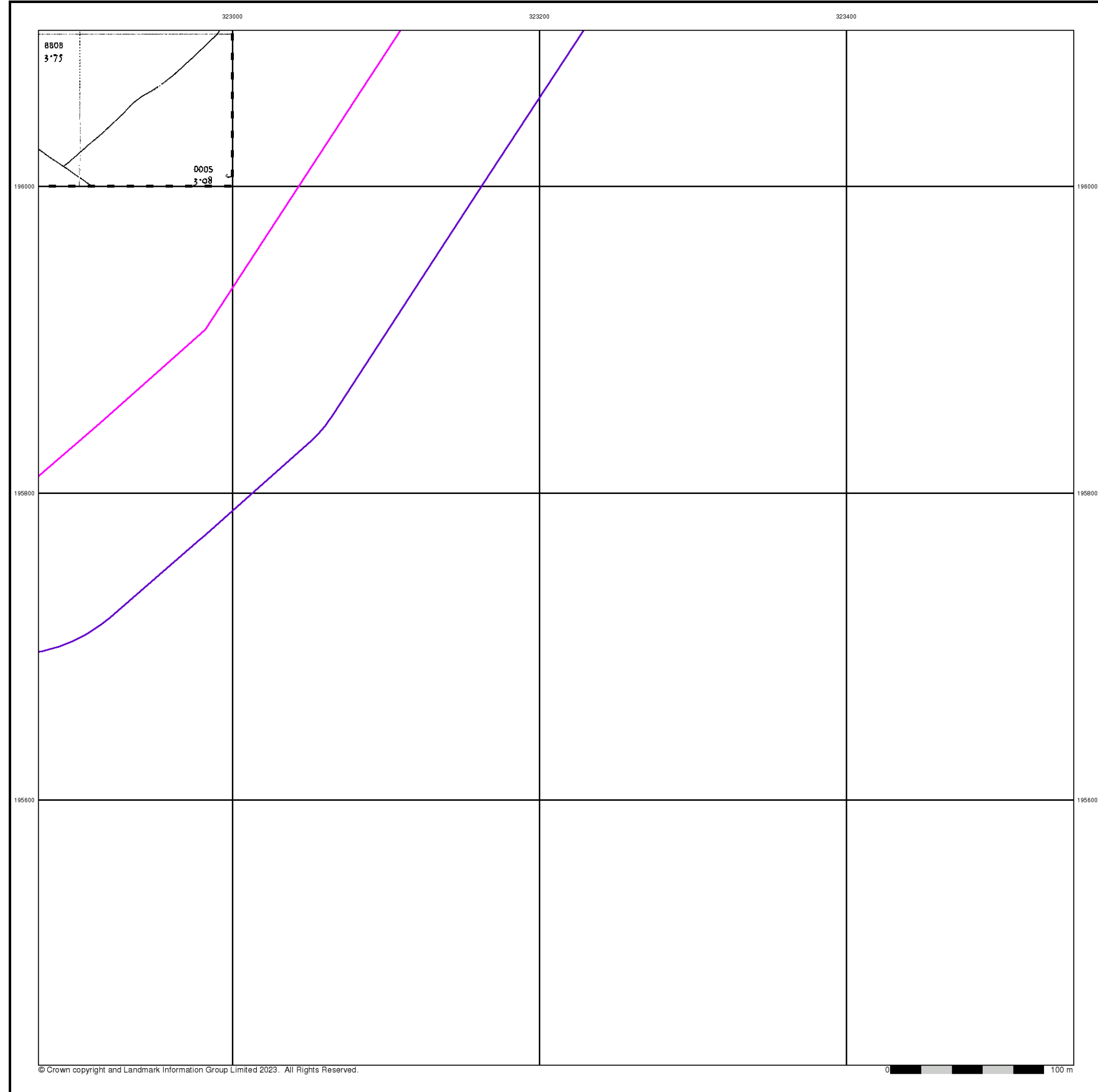
ST2296 1962 12,500	ST2396 1962 12,500
ST2295 1962 12,500	ST2395 1962 12,500

Historical Map - Segment A7



Order Details
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details
Trecelyn South Site



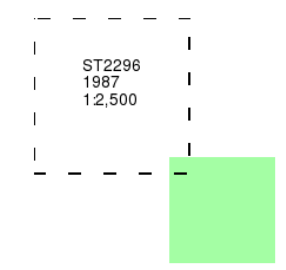
Additional SIMs

Published 1987

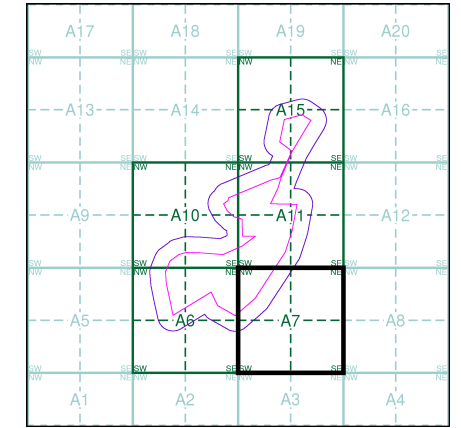
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

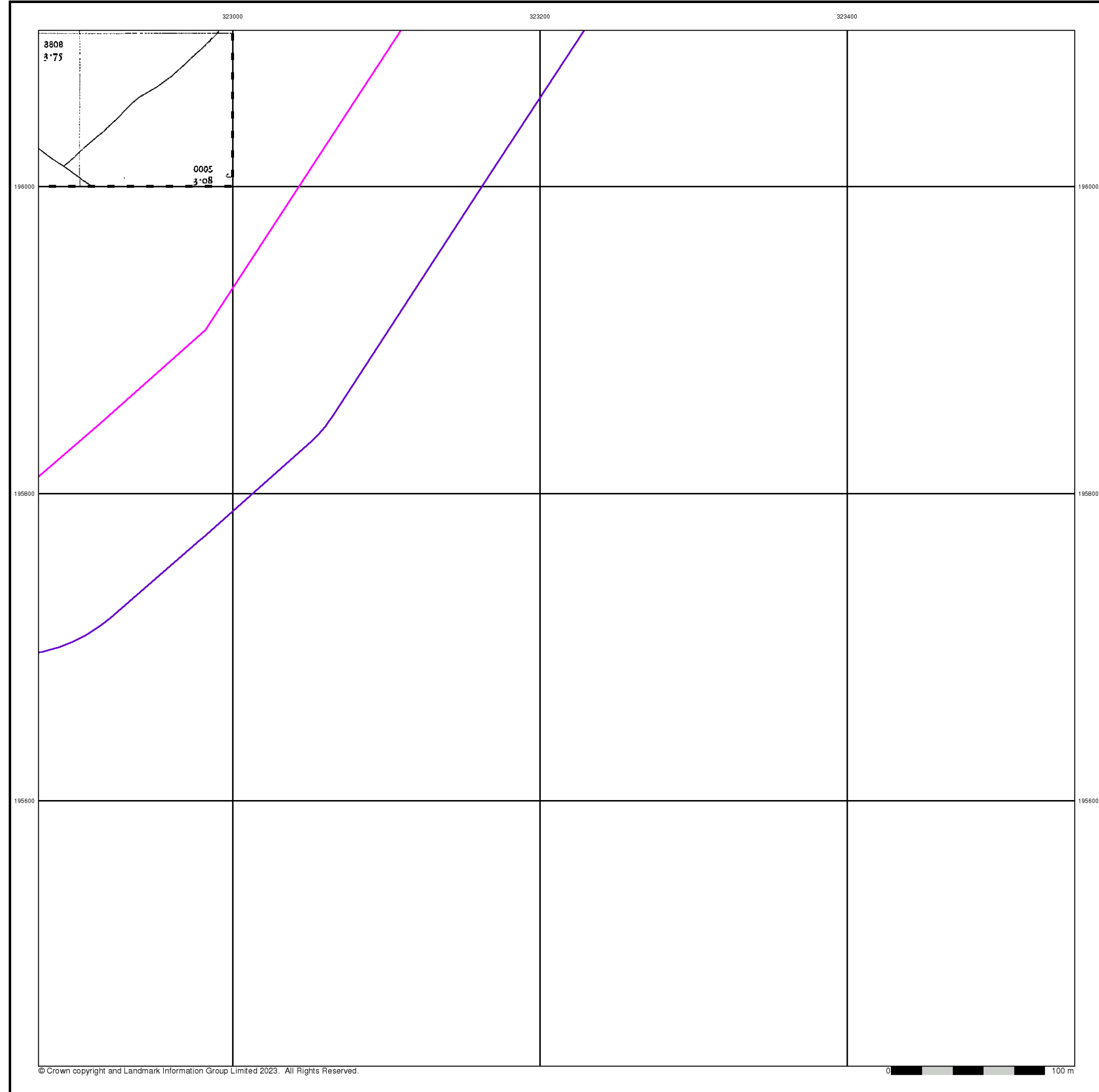
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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Additional SIMs

Published 1989

Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST2296
1989
1:2,500

Historical Map - Segment A7

Order Details

Order Number:	315136209_1_1
Customer Ref:	21966268
National Grid Reference:	322920, 196370
Slice:	A
Site Area (Ha):	38.14
Search Buffer (m):	100

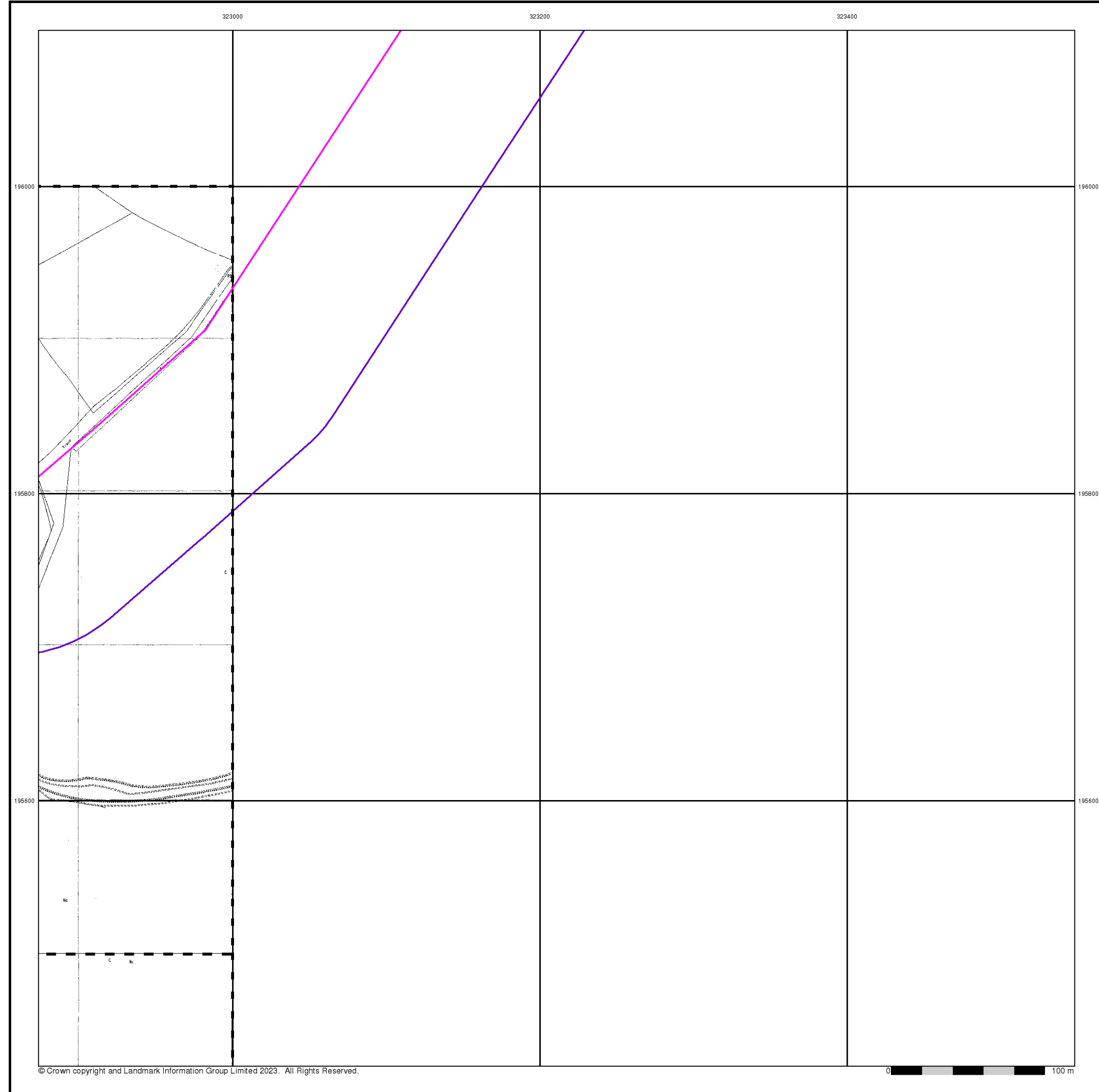
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Large-Scale National Grid Data

Published 1993

Source map scale - 1:1,250

'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)

ST2295NE

1993

1:1,250

ST2295SE

1993

1:1,250

Historical Map - Segment A7

Order Details

Order Number:	315136209_1_1
Customer Ref:	21966268
National Grid Reference:	322920, 196370
Slice:	A
Site Area (Ha):	38.14
Search Buffer (m):	100

Site Details

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Page 8 of 9



Large-Scale National Grid Data

Published 1993

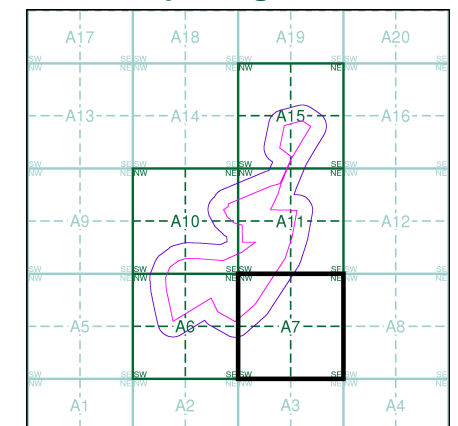
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST2296 1993 1:2,500	ST2396 1993 1:2,500
	ST2395 1993 1:2,500

Historical Map - Segment A7



Order Details

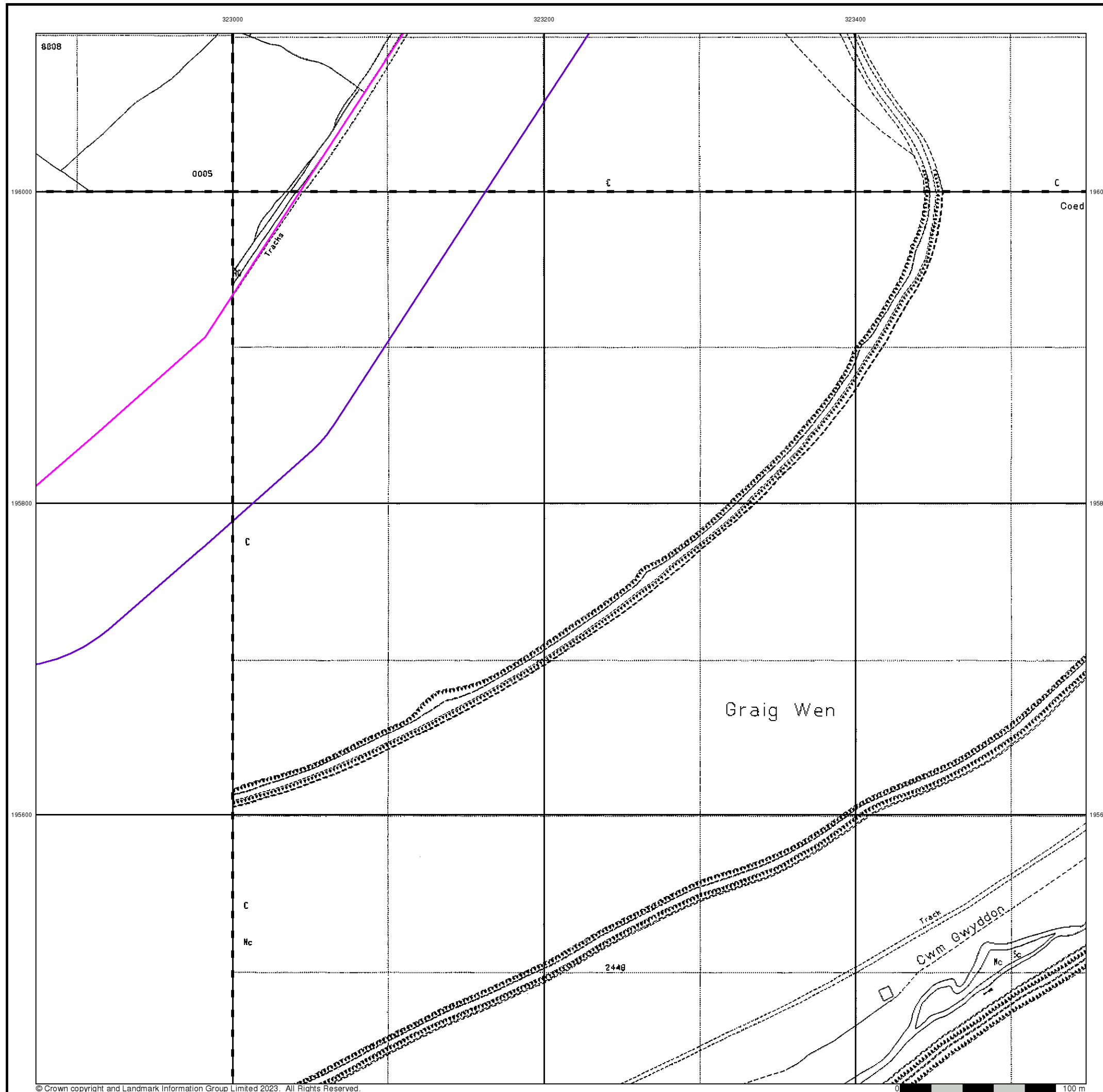
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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Historical Mapping Legends

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



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



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

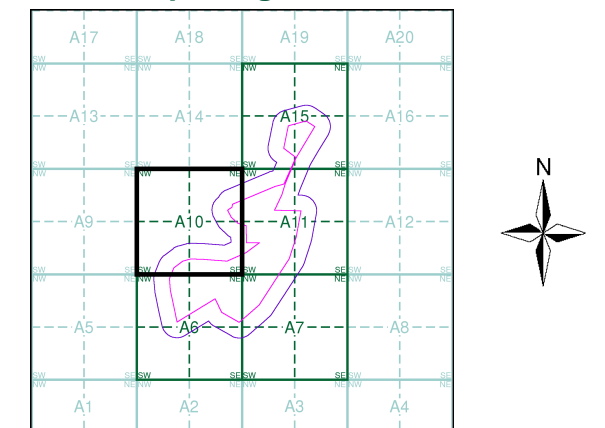


wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1879	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:2,500	1962	5
Additional SIMs	1:2,500	1987	6
Additional SIMs	1:2,500	1989	7
Large-Scale National Grid Data	1:2,500	1993	8

Historical Map - Segment A10



Order Details

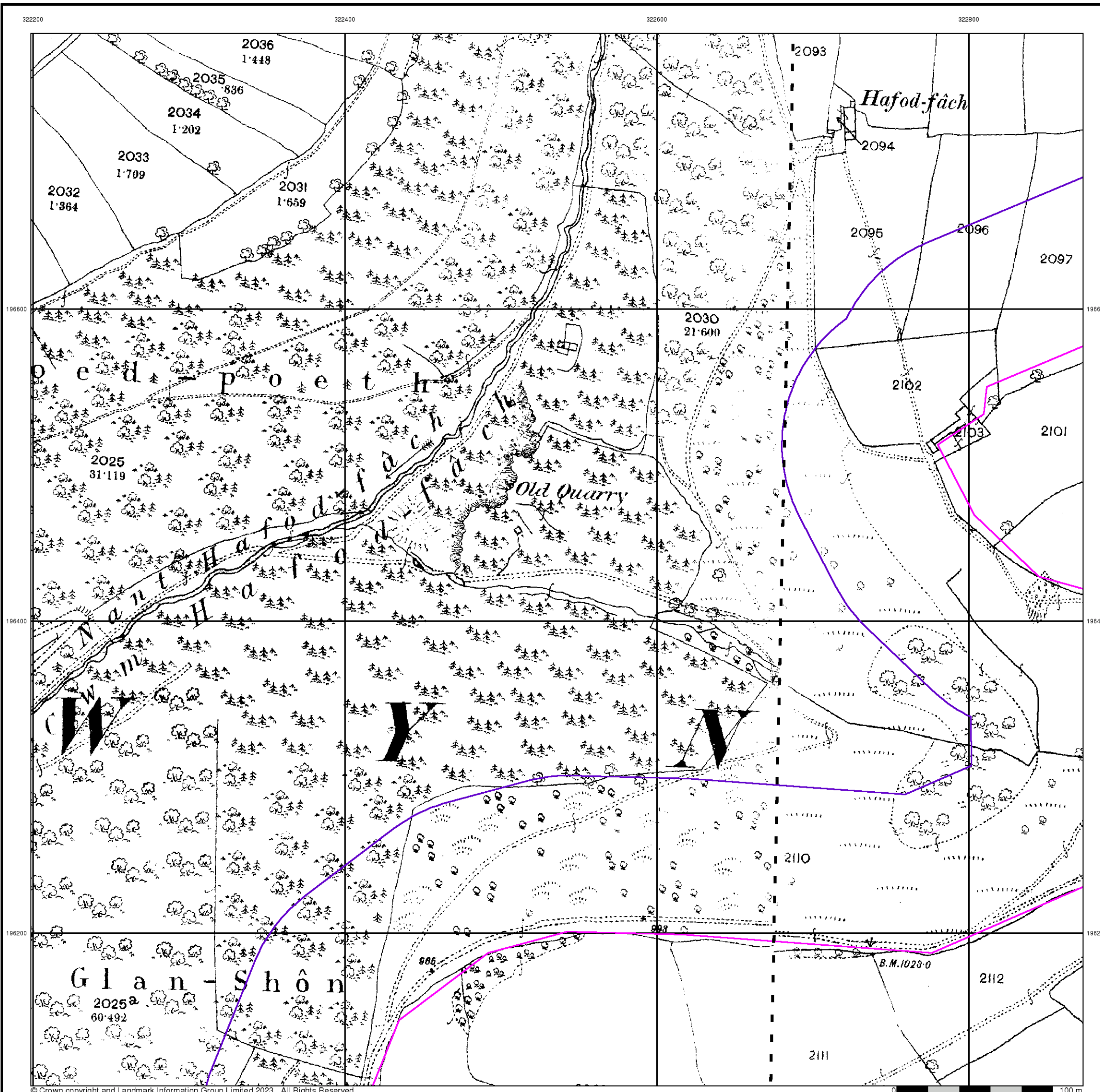
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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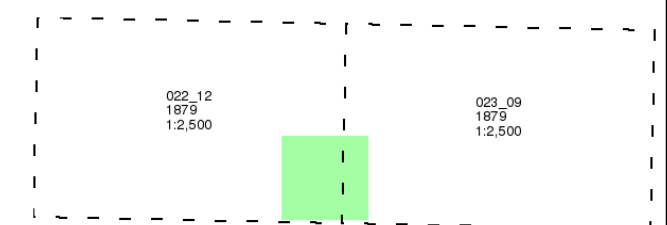
Monmouthshire

Published 1879

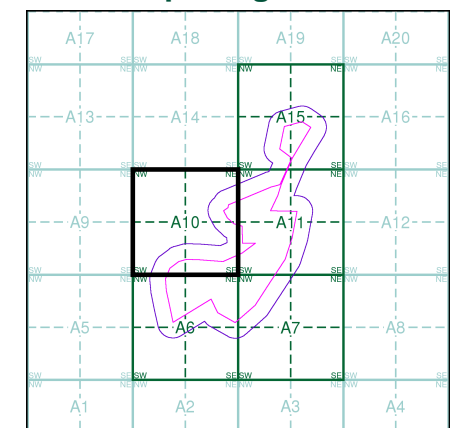
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

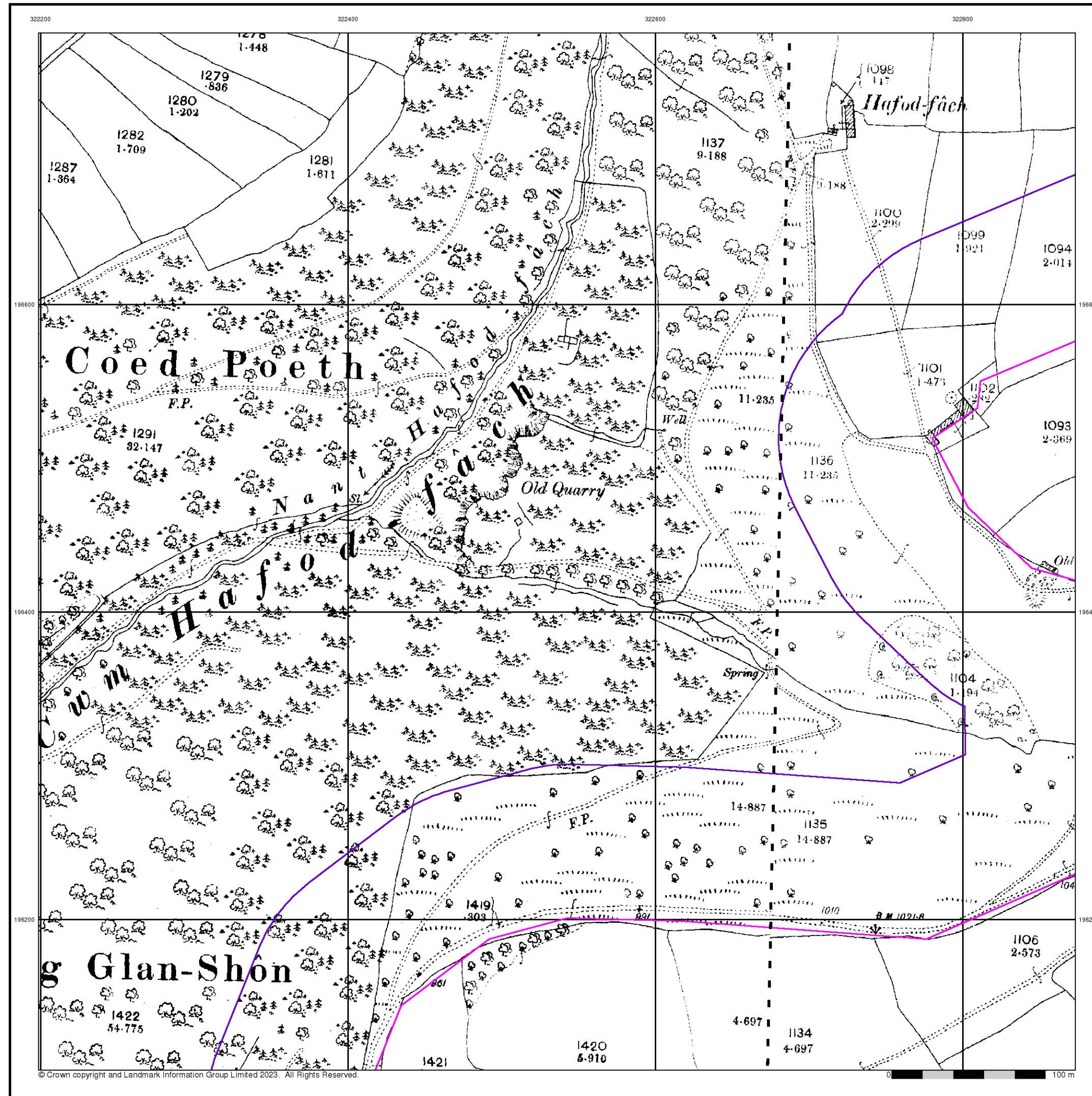
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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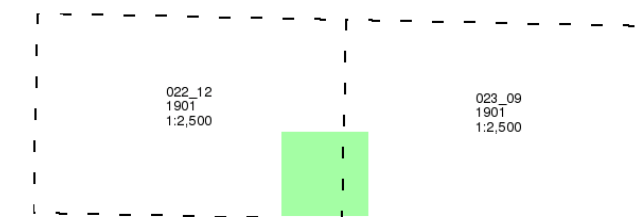
Monmouthshire

Published 1901

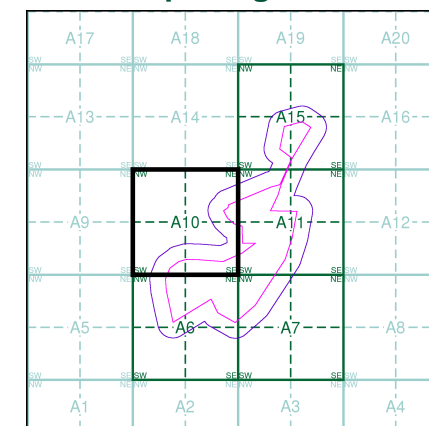
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

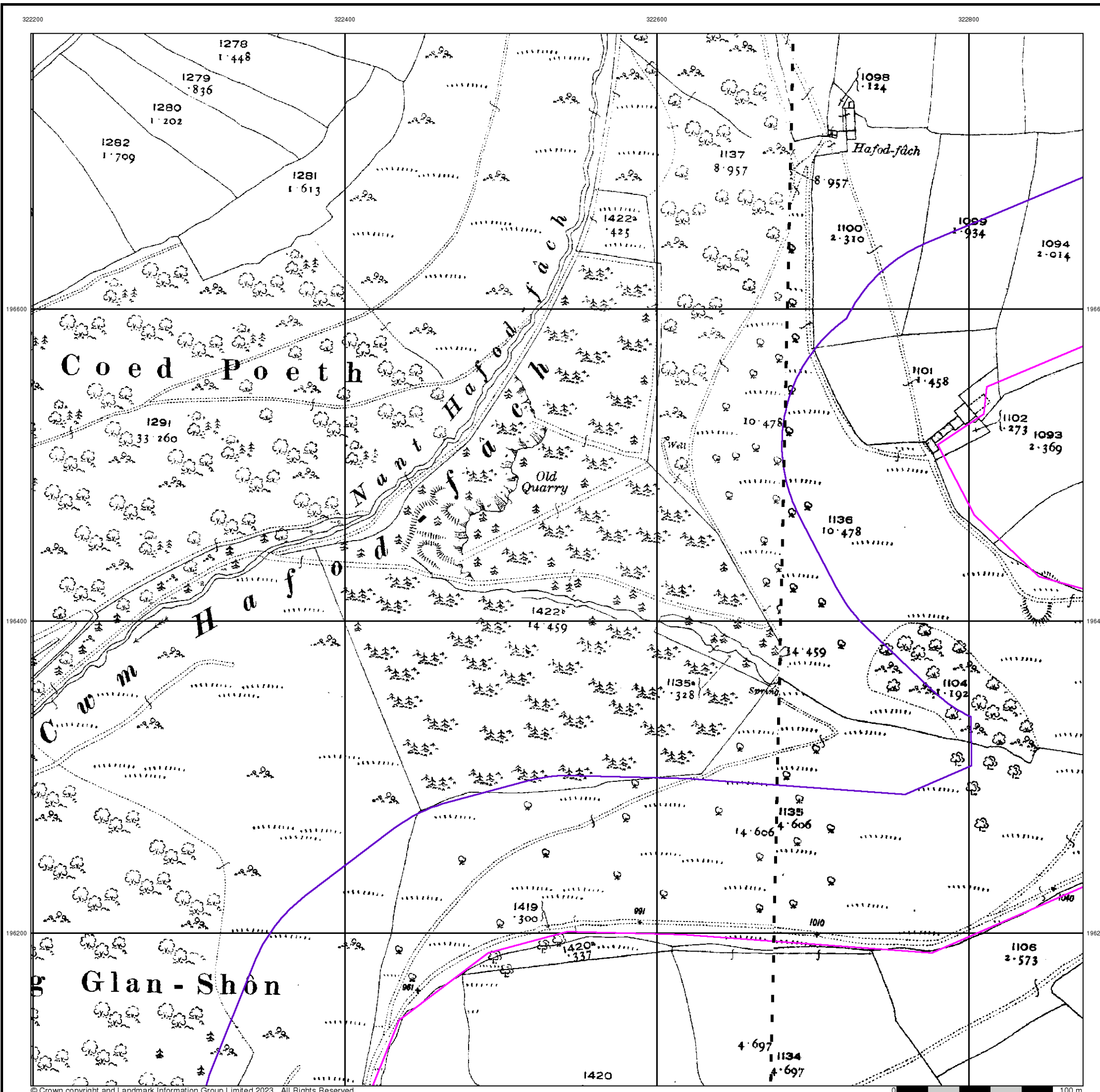
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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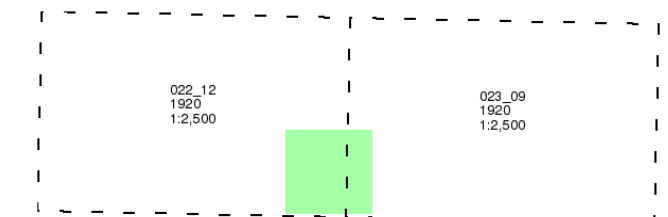
Monmouthshire

Published 1920

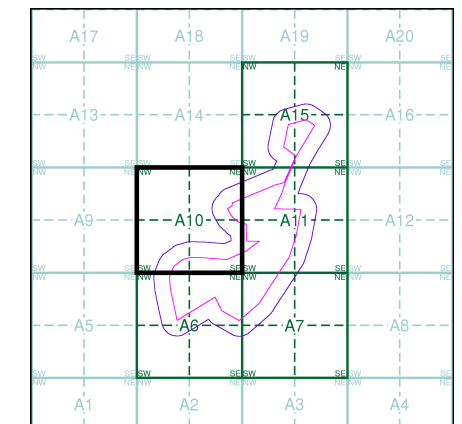
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

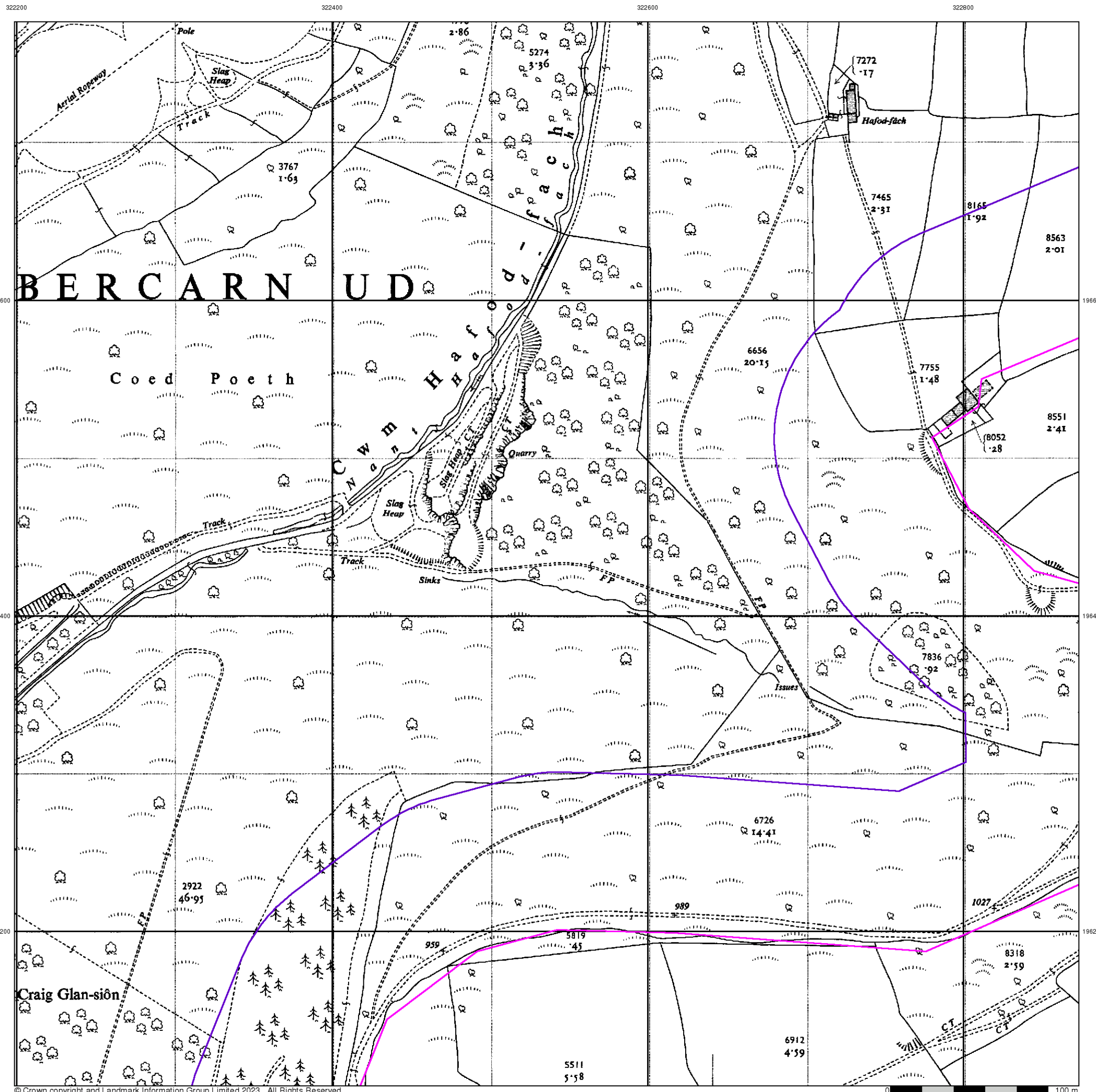
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

Trecelyn South Site

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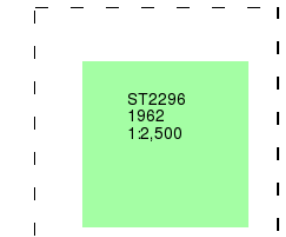
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



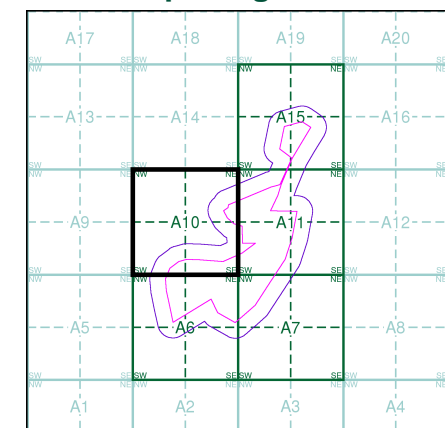
Ordnance Survey Plan
Published 1962
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

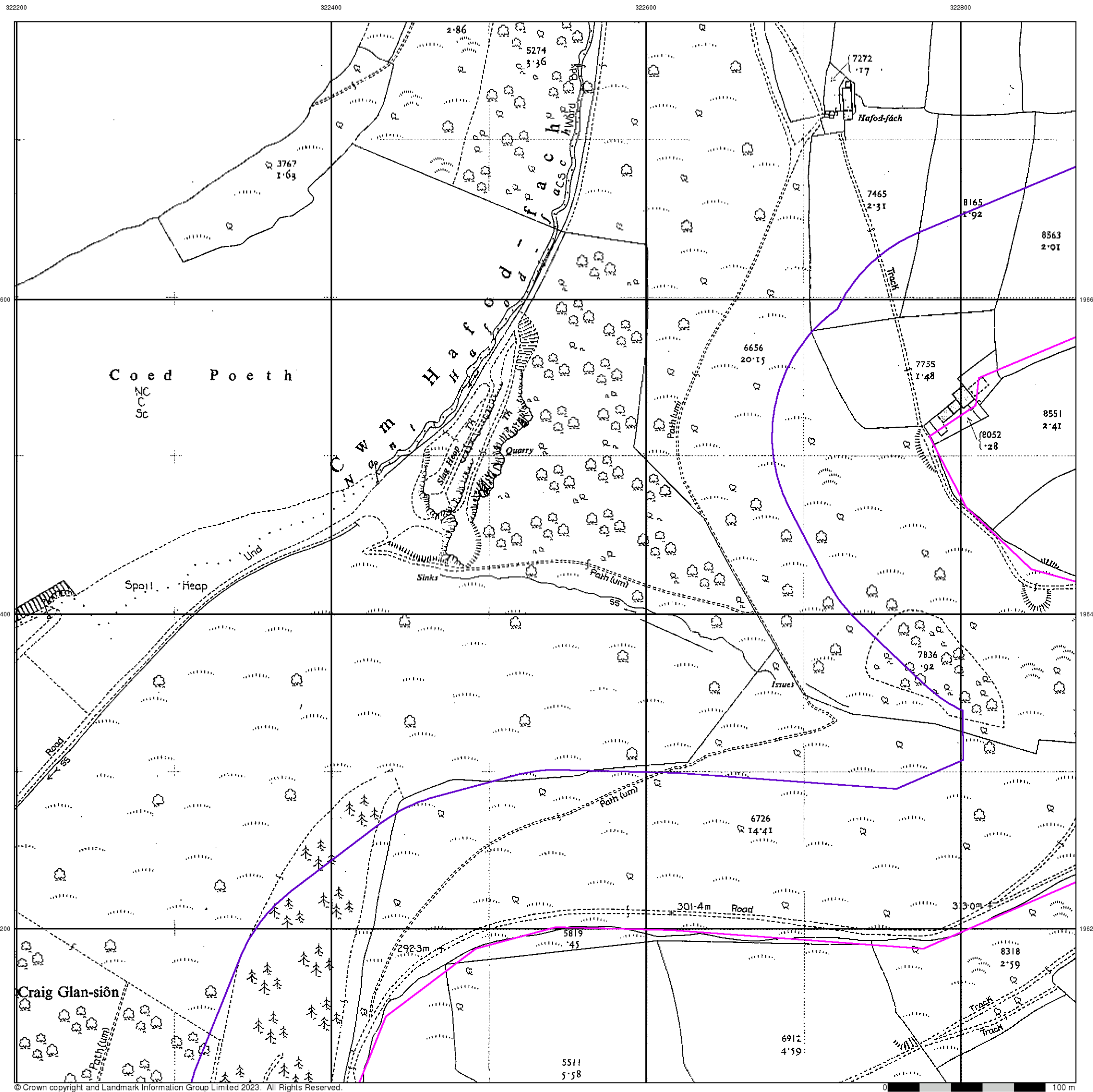
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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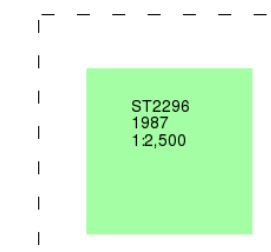
Additional SIMs

Published 1987

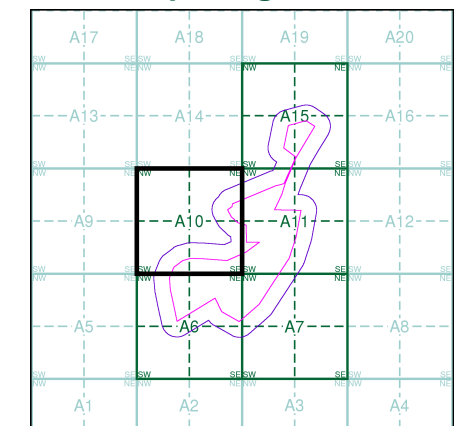
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

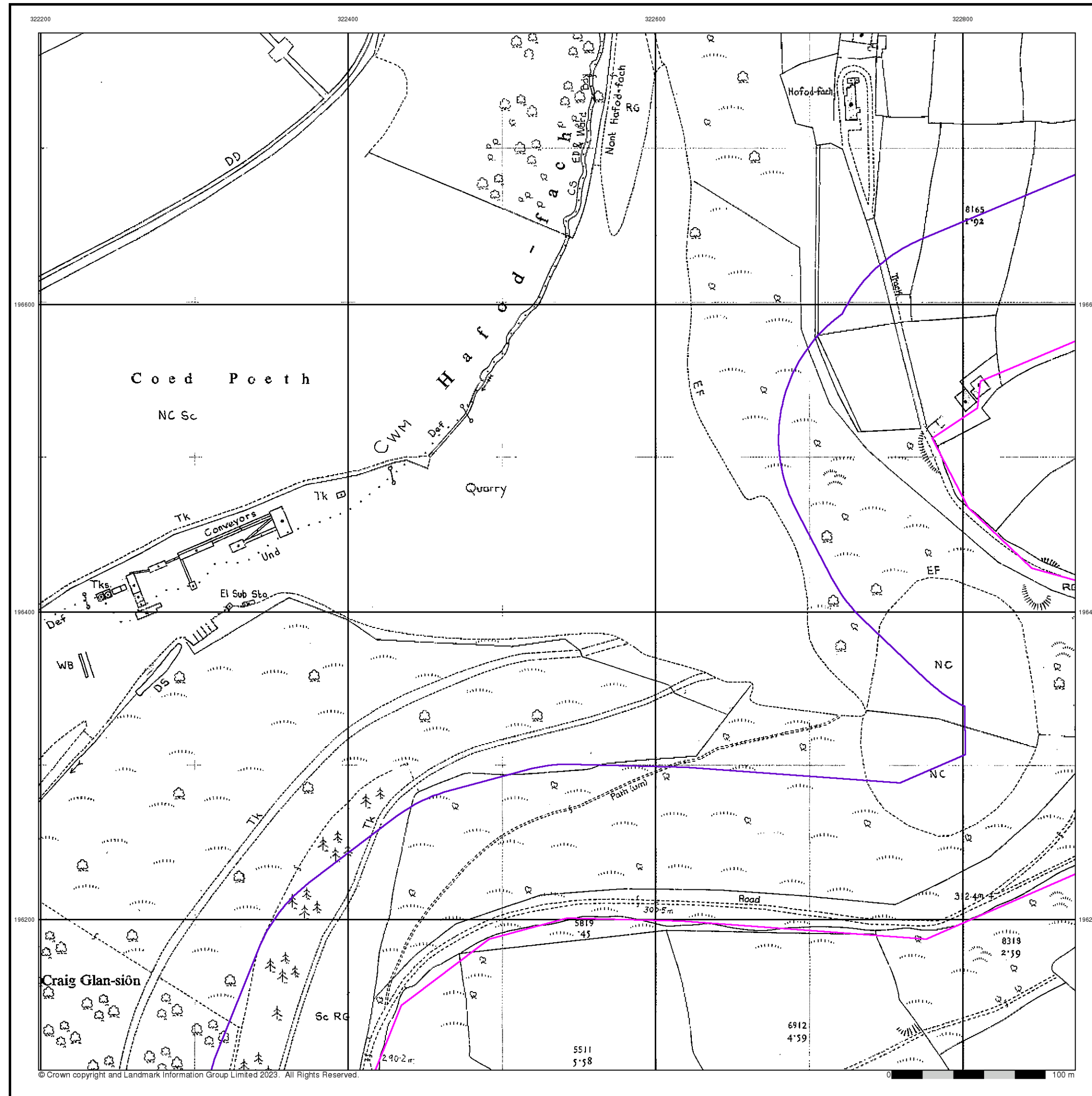
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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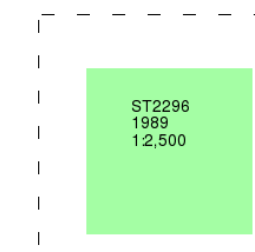
Additional SIMs

Published 1989

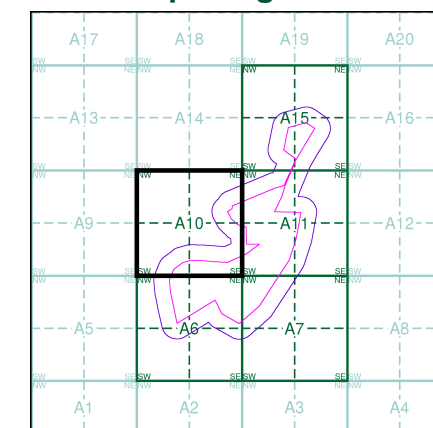
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

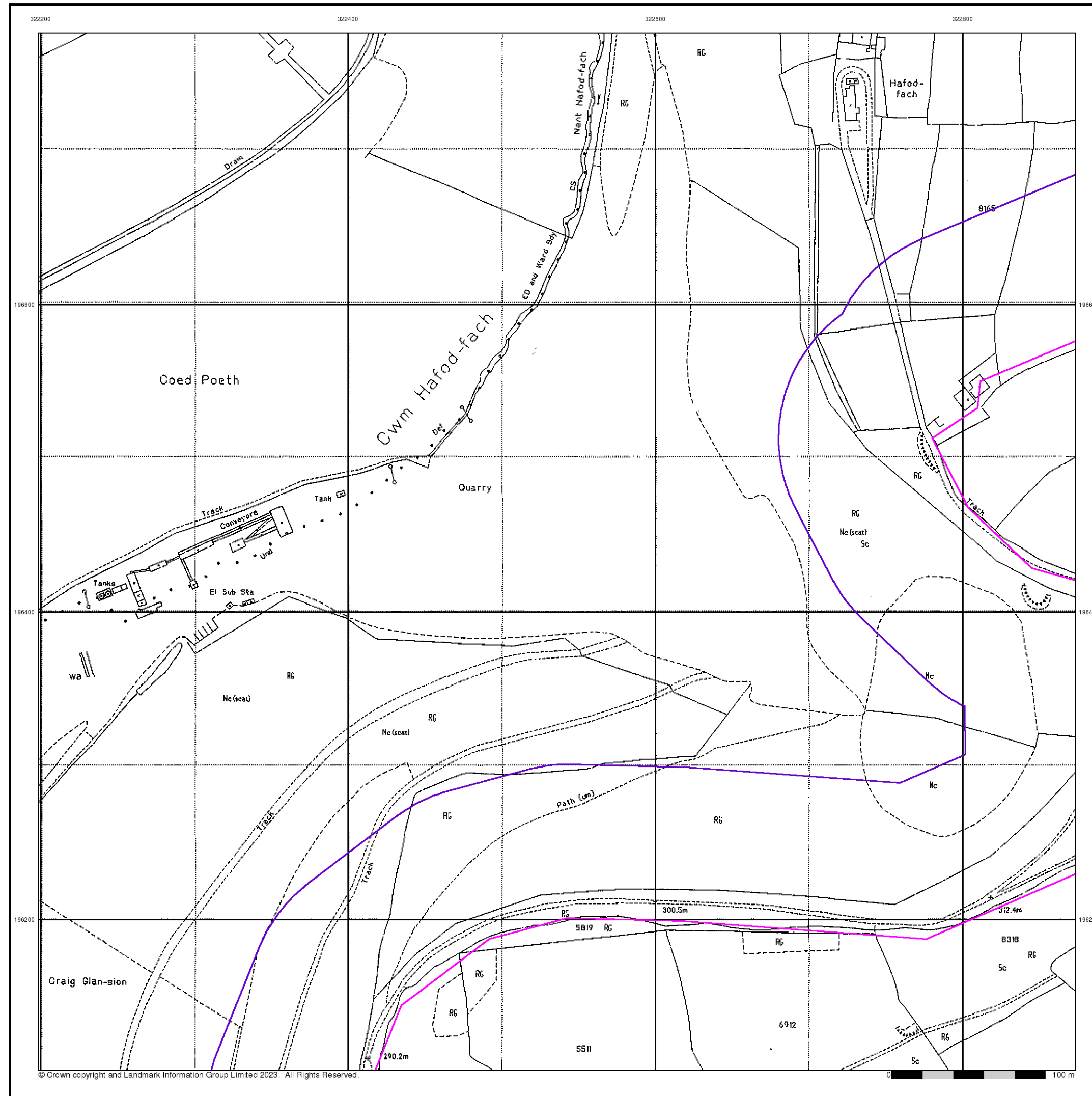
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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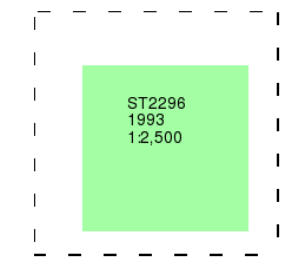
Large-Scale National Grid Data

Published 1993

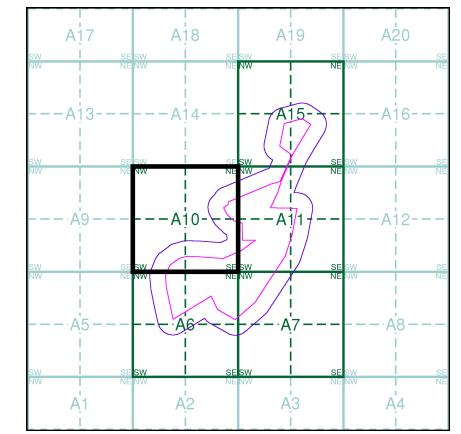
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

Trecelyn South Site



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Historical Mapping Legends

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



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



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

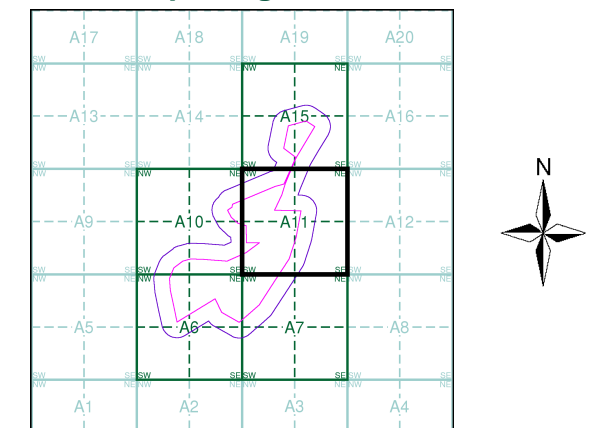


wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1879	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:2,500	1962	5
Additional SIMs	1:2,500	1987	6
Additional SIMs	1:2,500	1989	7
Large-Scale National Grid Data	1:2,500	1993	8

Historical Map - Segment A11



Order Details

Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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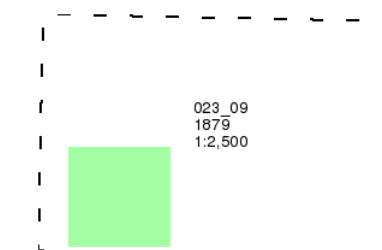
Monmouthshire

Published 1879

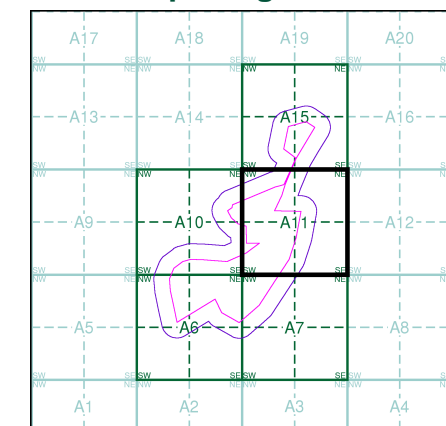
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

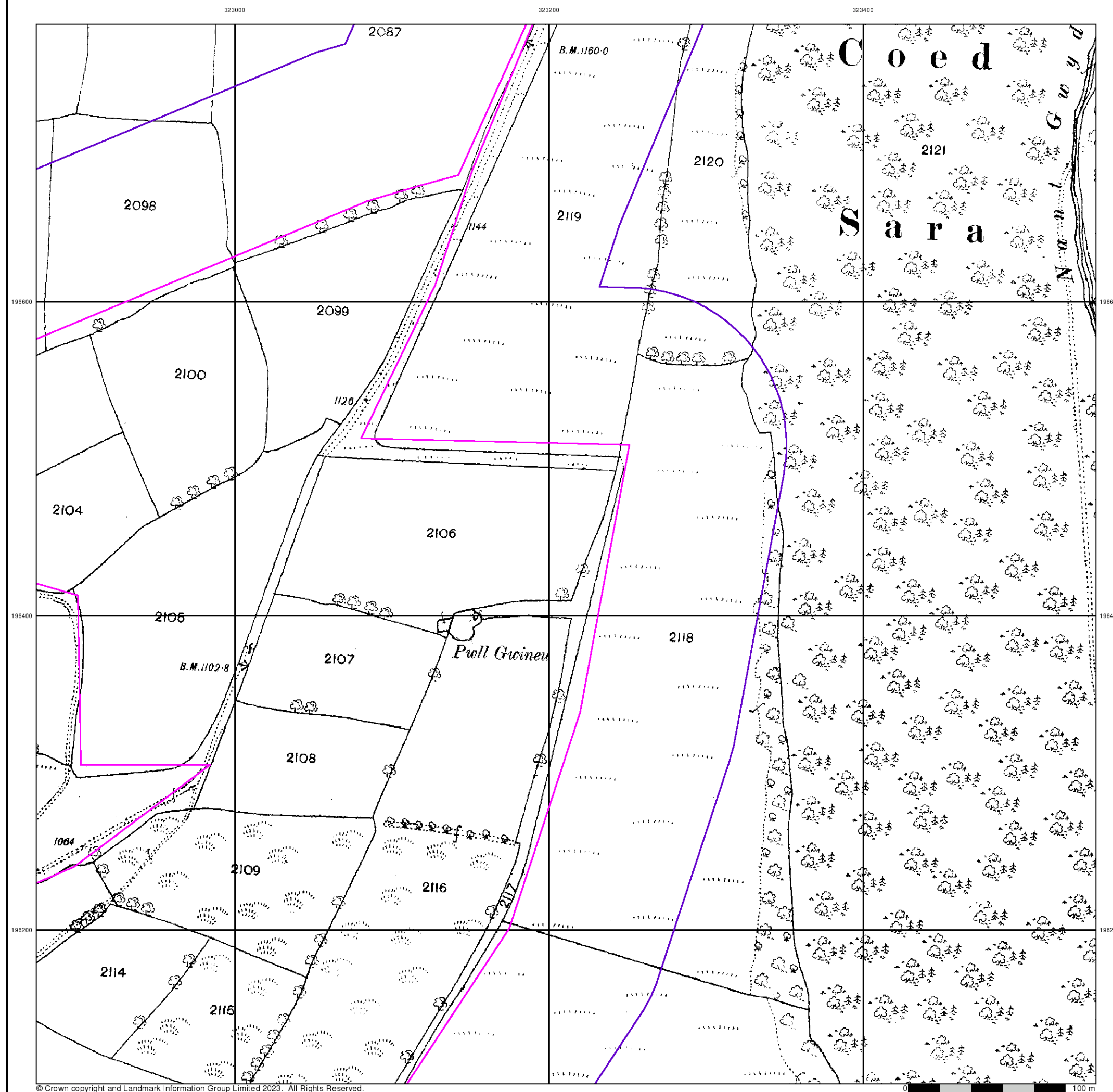
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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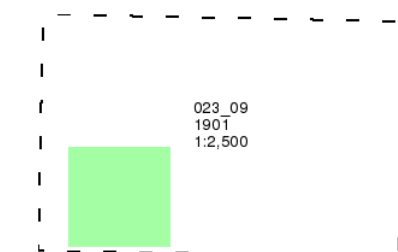
Monmouthshire

Published 1901

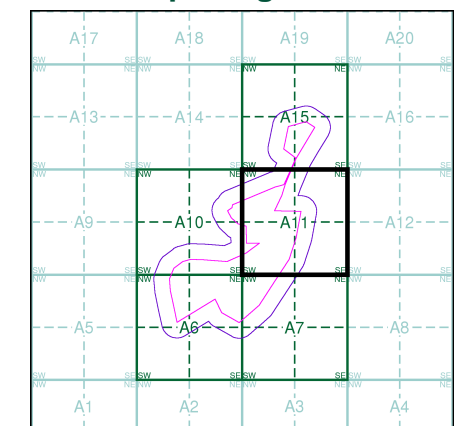
Source map scale - 1:2,500

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 A11



Order Details

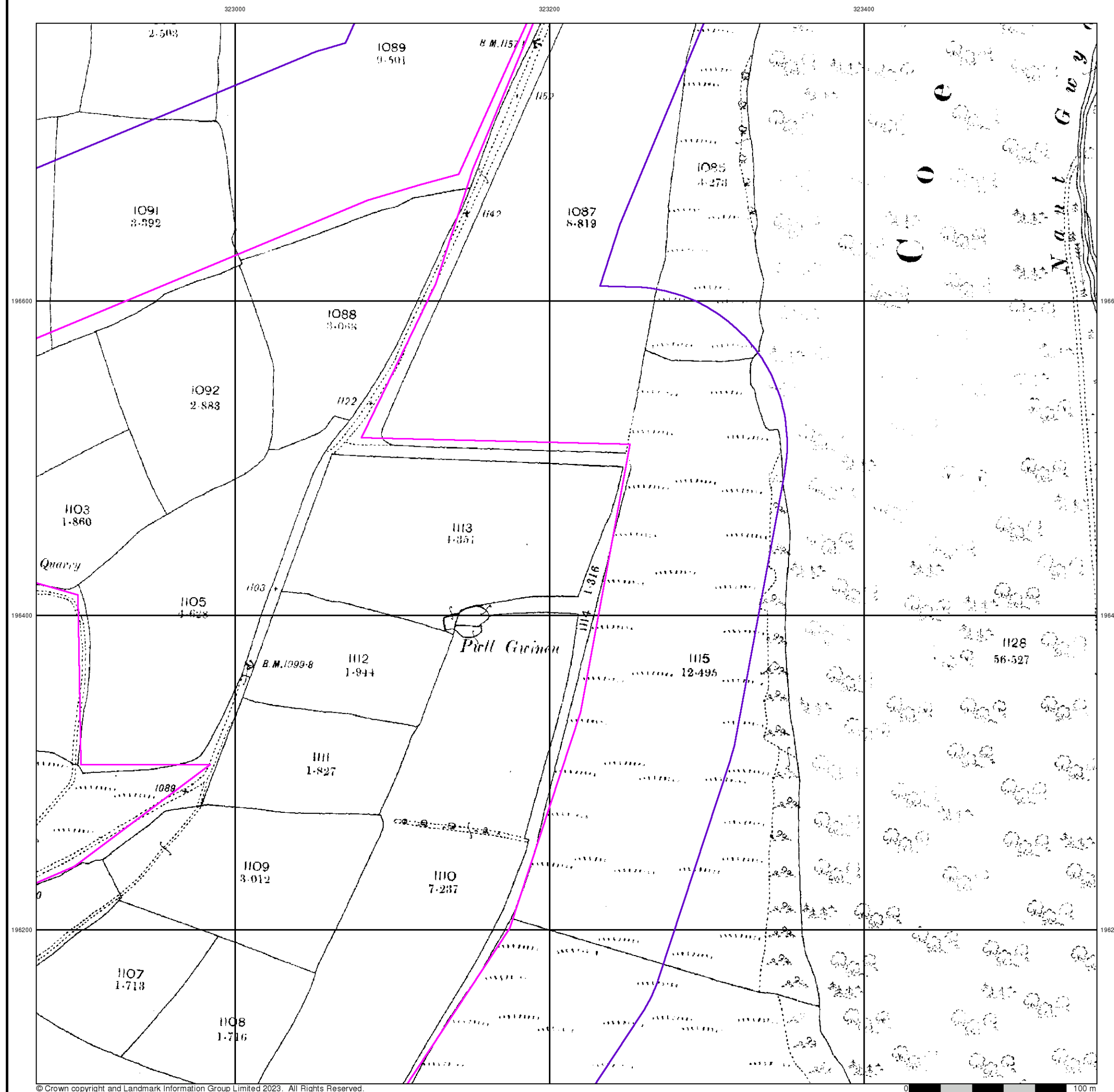
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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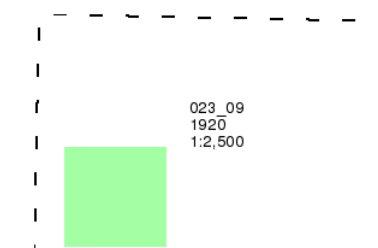
Monmouthshire

Published 1920

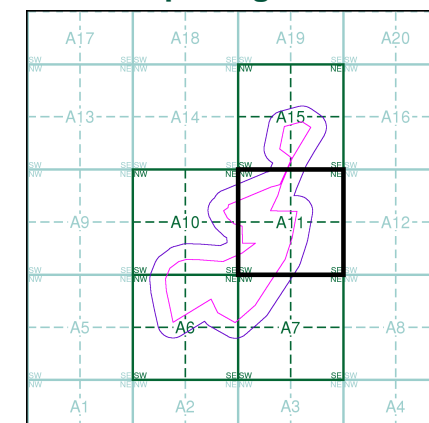
Source map scale - 1:2,500

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 A11



Order Details

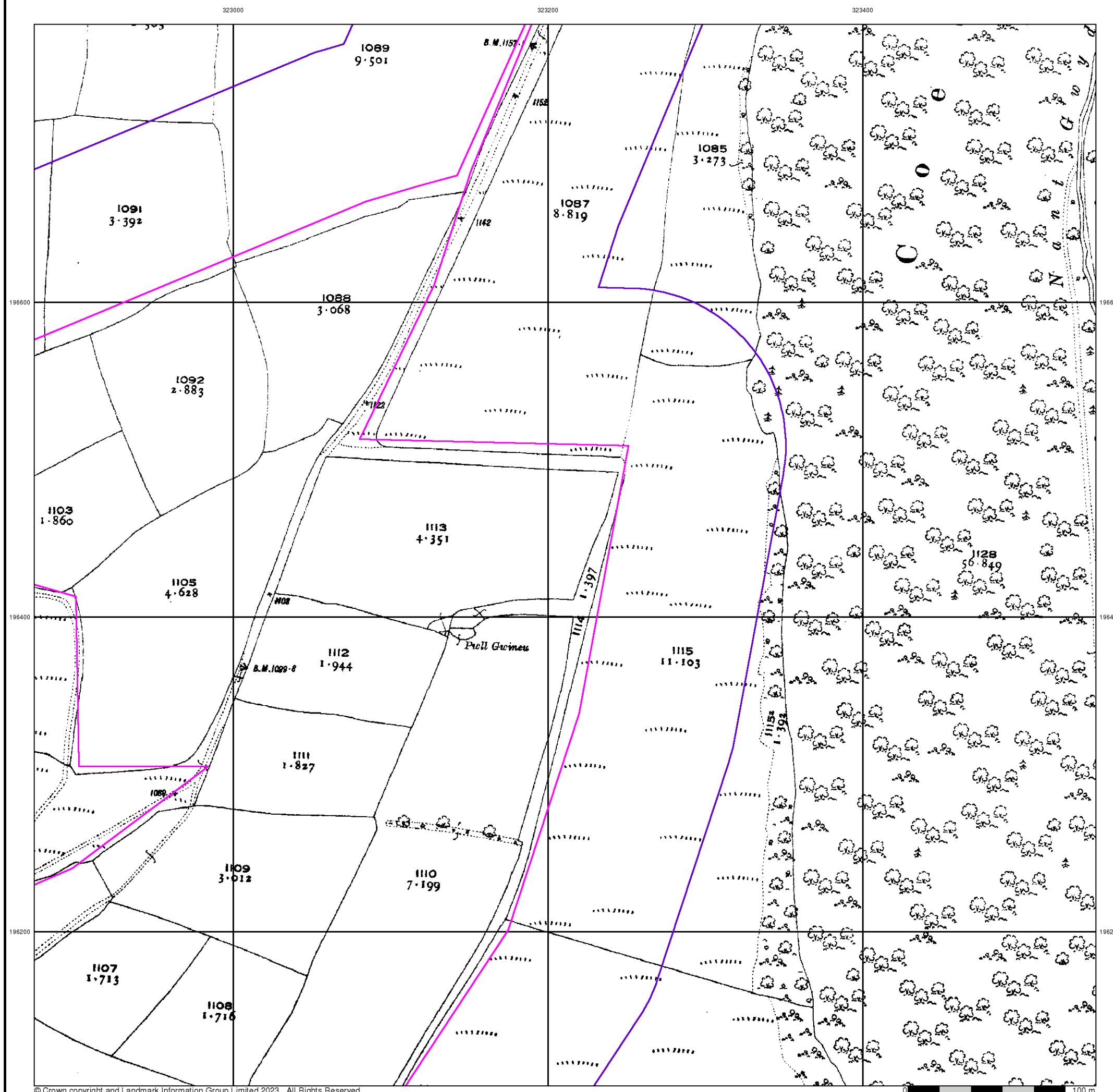
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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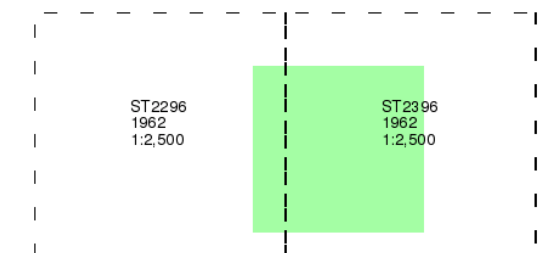
Ordnance Survey Plan

Published 1962

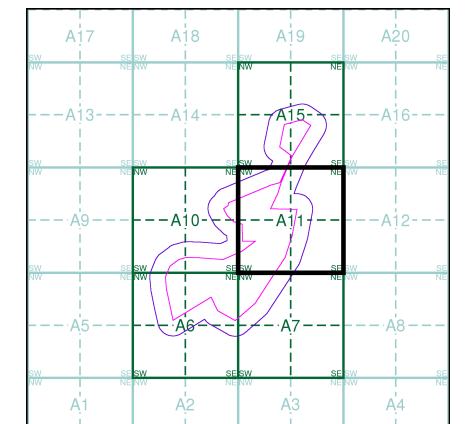
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

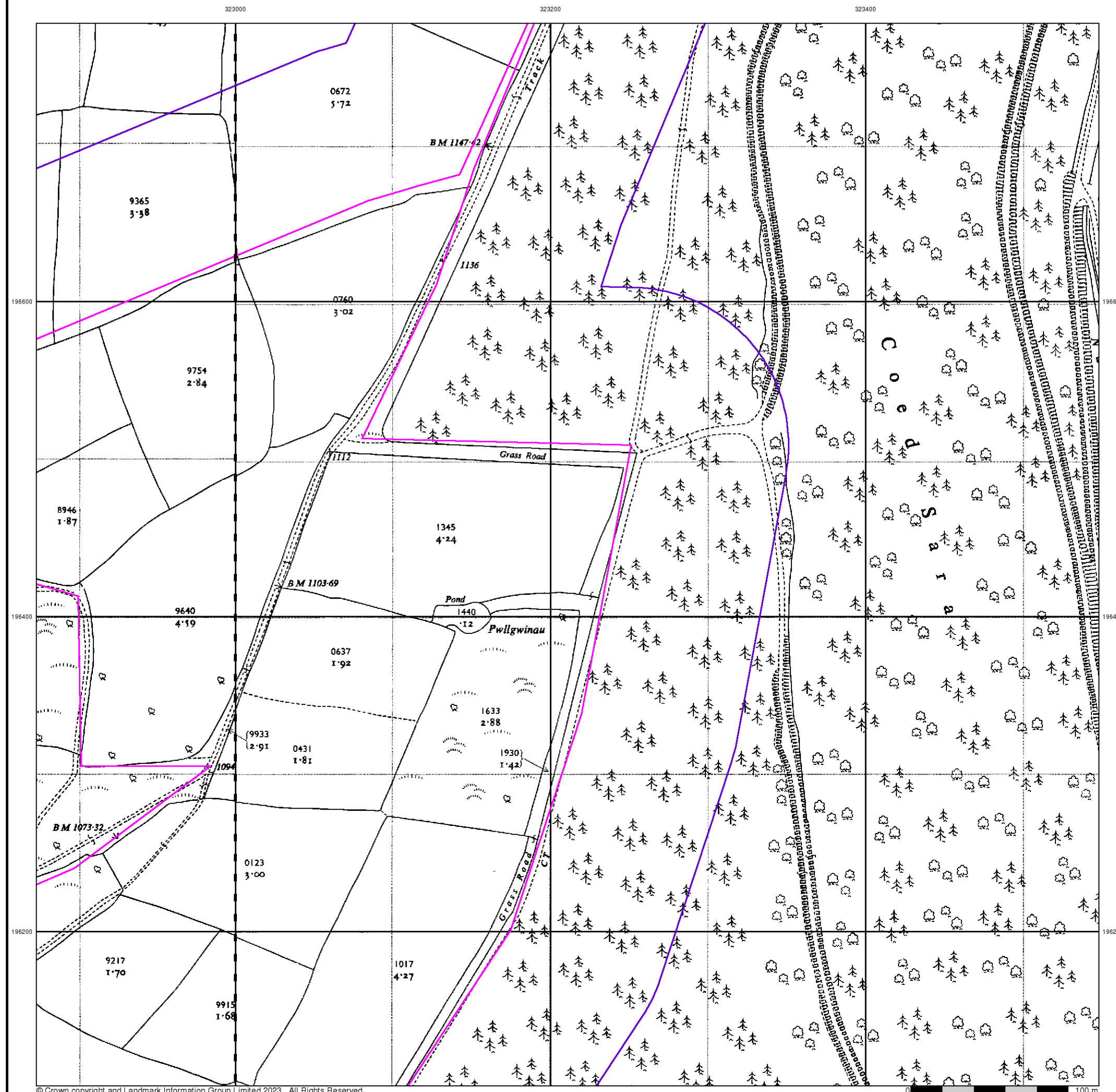
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

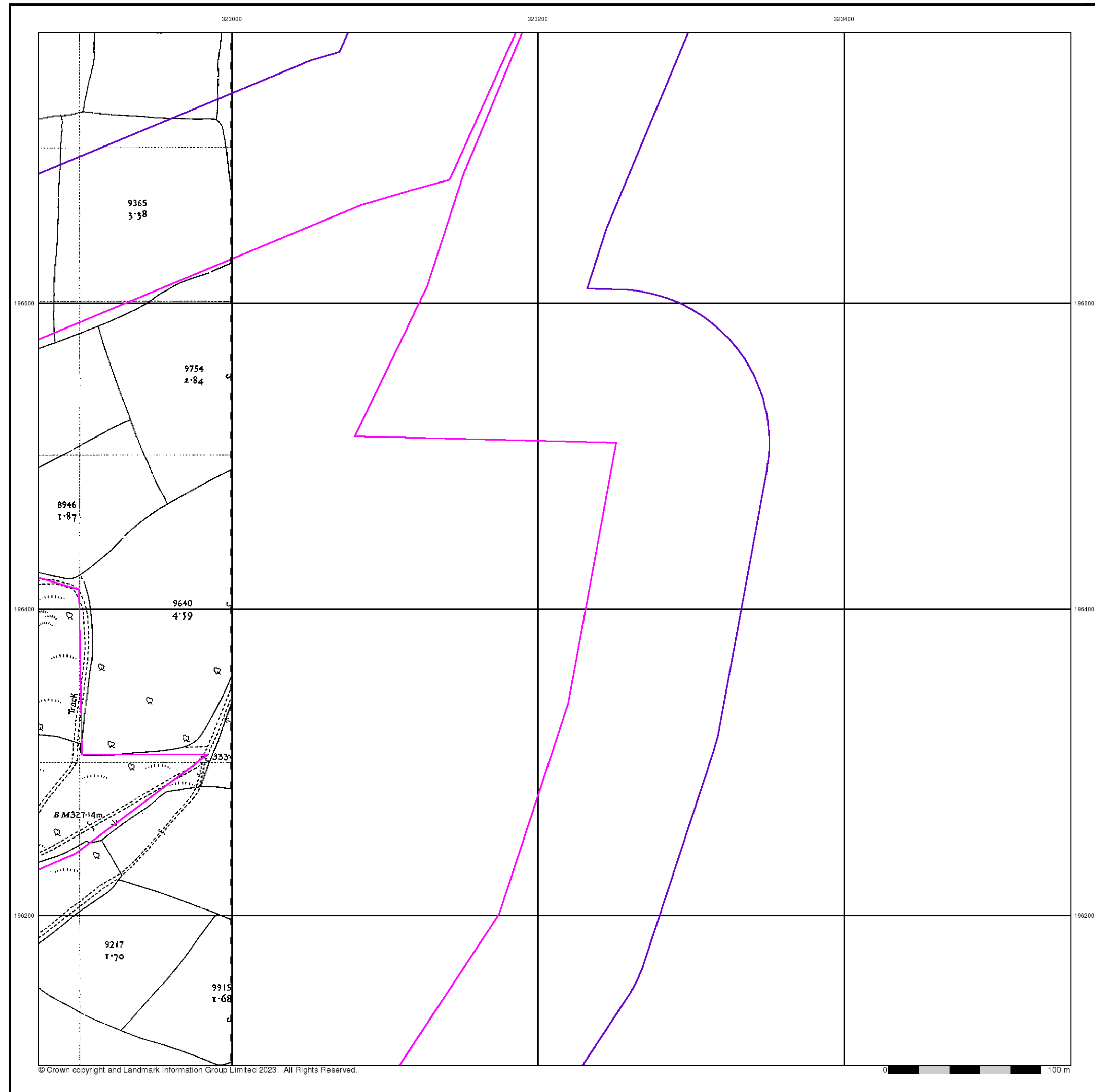
Site Details

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Additional SIMs
Published 1987
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST2296
1987
1:2,500

Historical Map - Segment A11

Order Details

Order Number:	315136209_1_1
Customer Ref:	21966268
National Grid Reference:	322920, 196370
Slice:	A
Site Area (Ha):	38.14
Search Buffer (m):	100

Site Details
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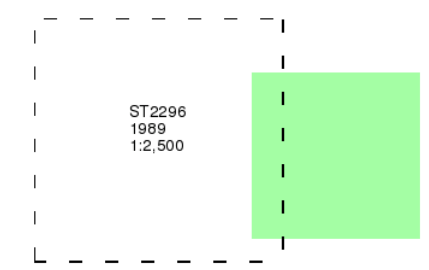
Additional SIMs

Published 1989

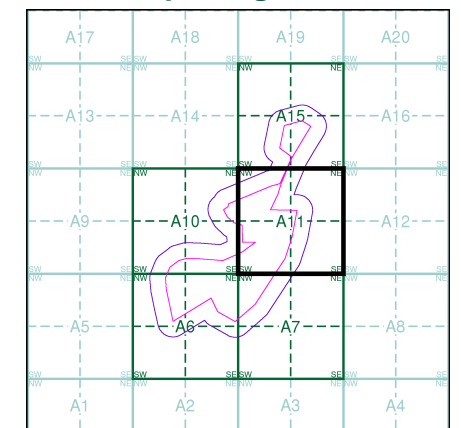
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

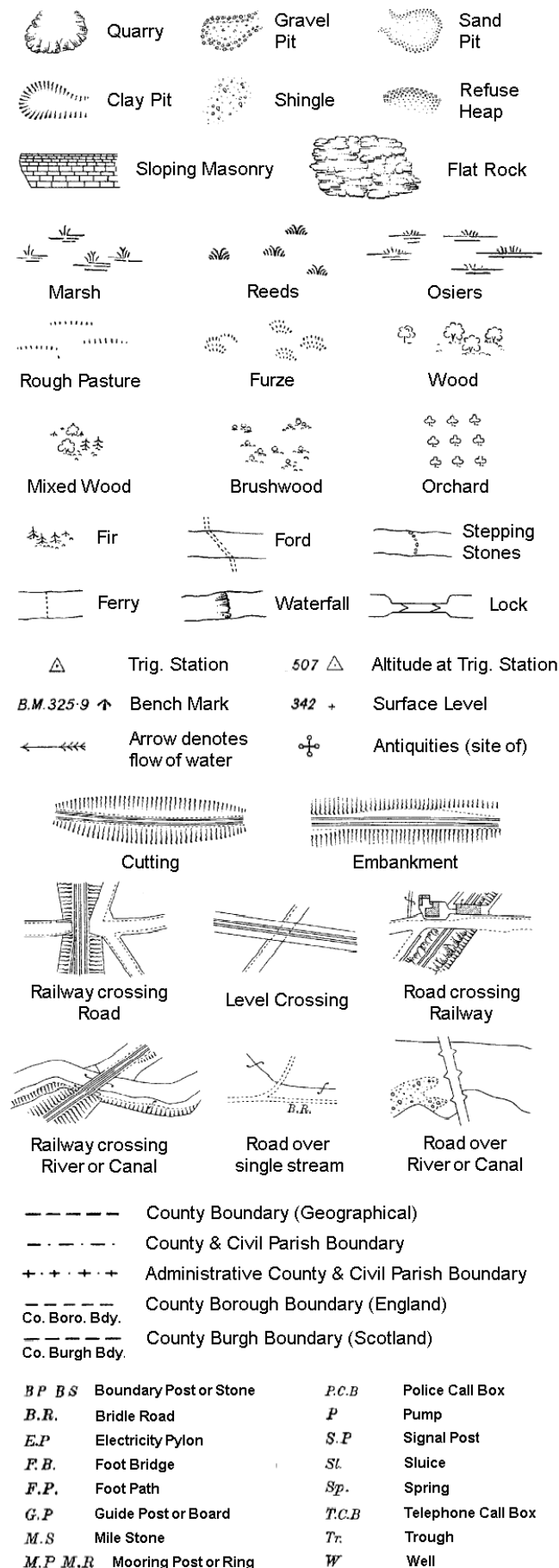
Trecelyn South Site



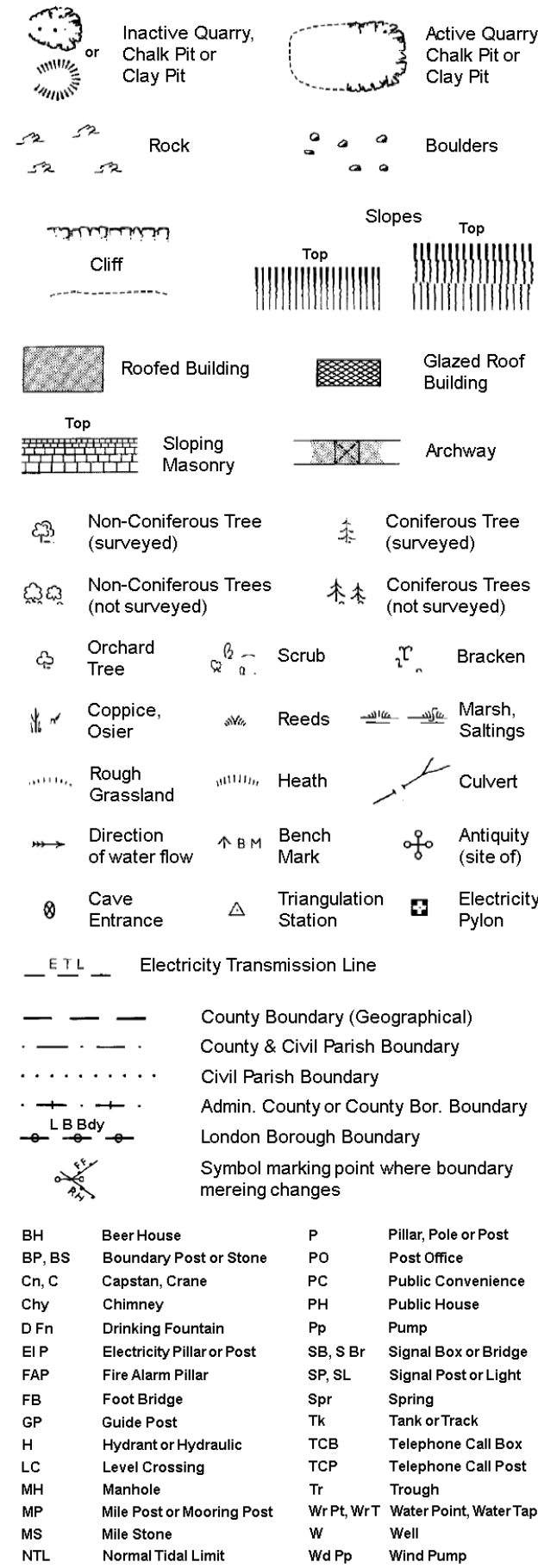
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

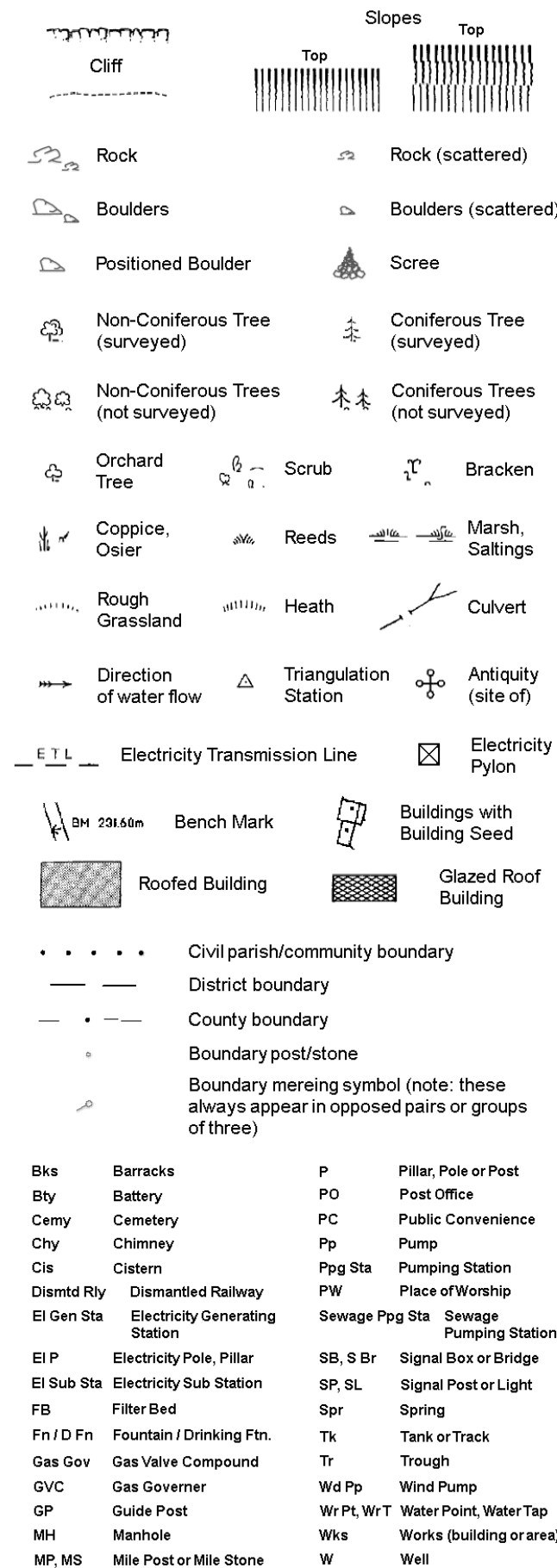
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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

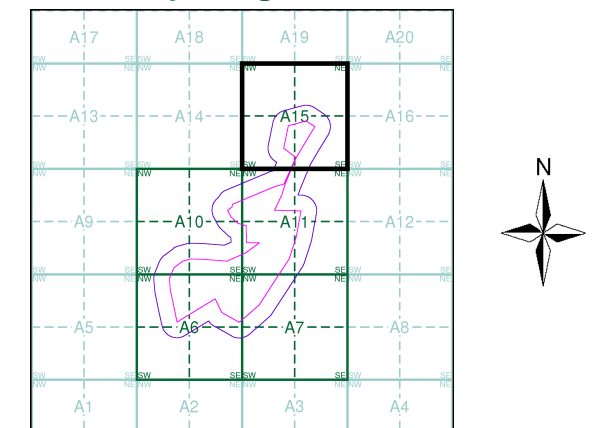


wood.

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1879	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:2,500	1962	5
Additional SIMs	1:2,500	1987 - 1989	6
Additional SIMs	1:2,500	1989	7
Large-Scale National Grid Data	1:2,500	1993	8
Large-Scale National Grid Data	1:1,250	1993	9

Historical Map - Segment A15



Order Details

Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

Trecelyn South Site

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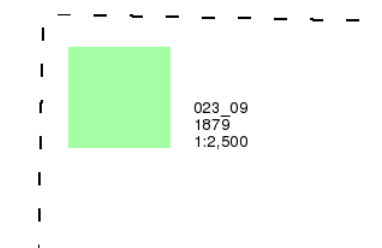
Monmouthshire

Published 1879

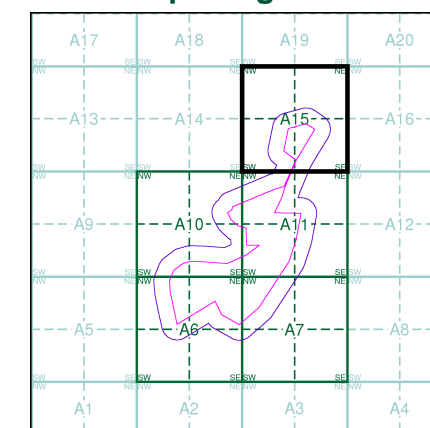
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A15



Order Details

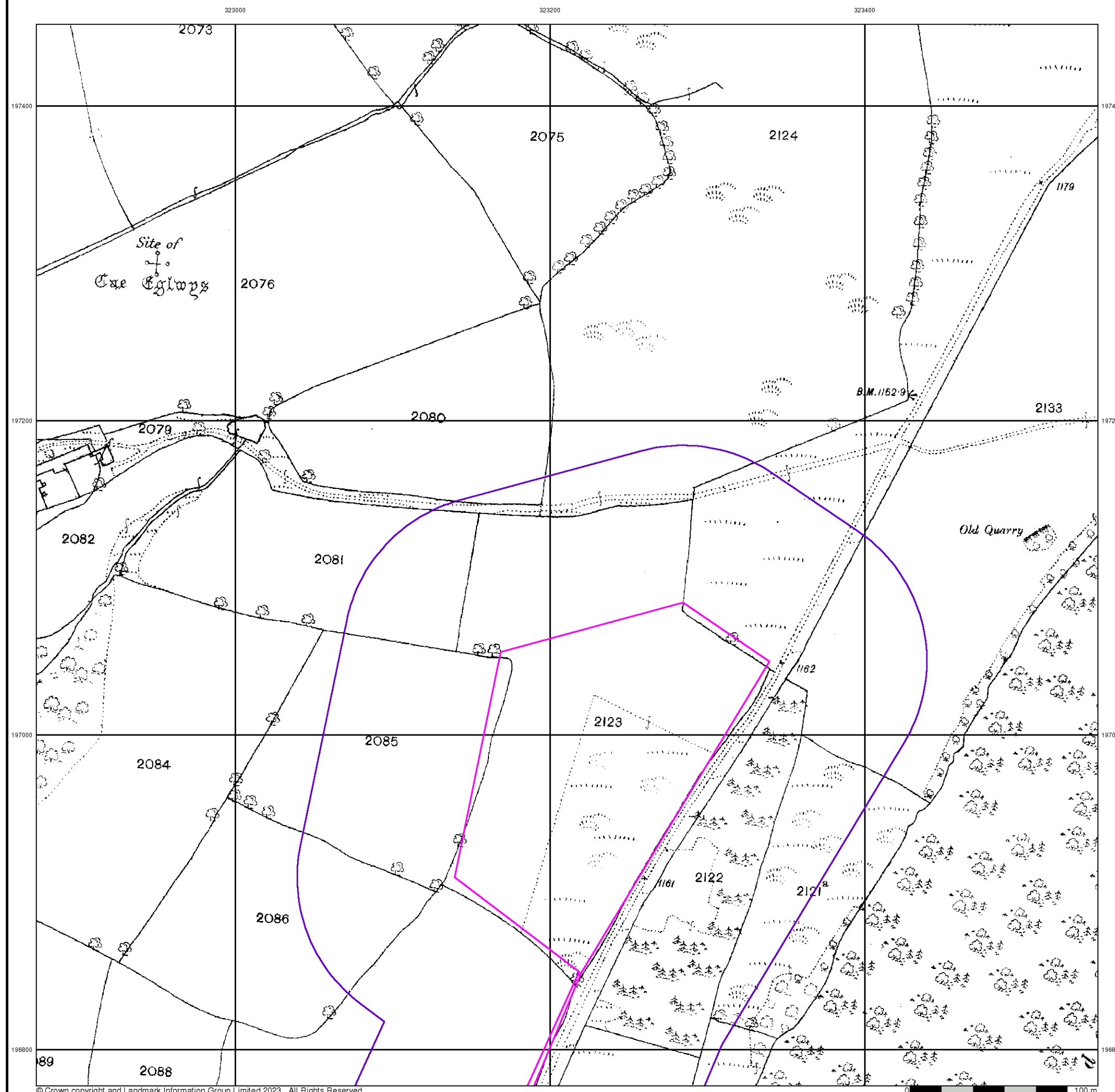
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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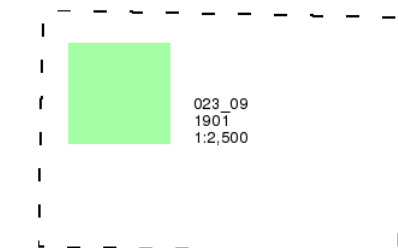
Monmouthshire

Published 1901

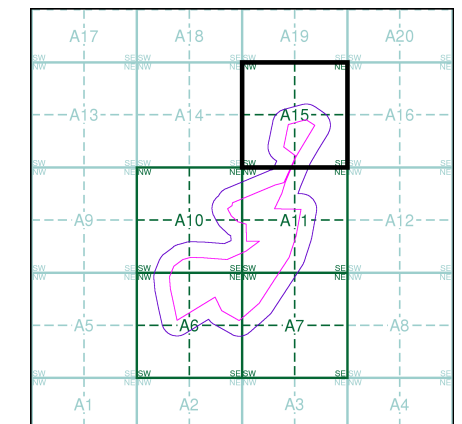
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A15



Order Details

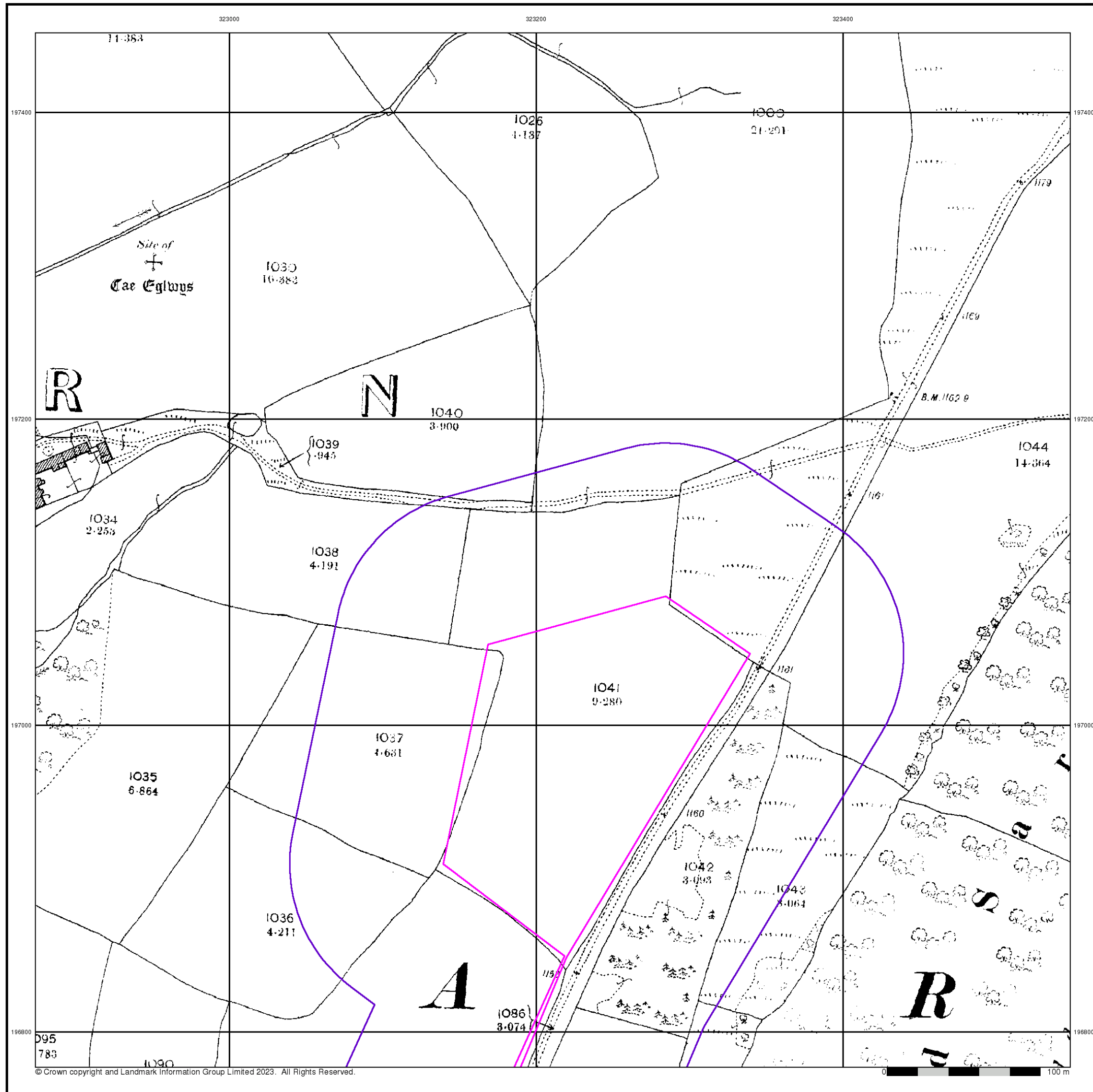
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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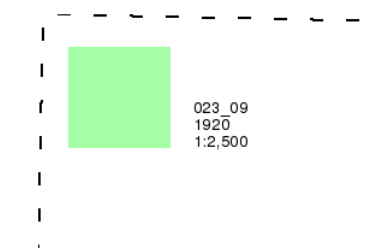
Monmouthshire

Published 1920

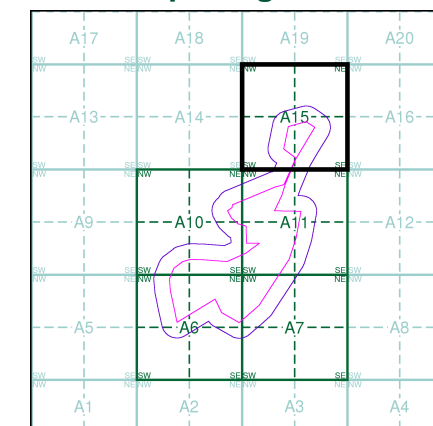
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A15



Order Details

Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1962

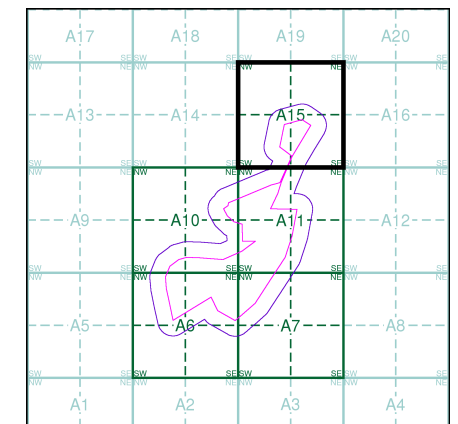
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST2297 1962 1:2,500	ST2397 1962 1:2,500
ST2296 1962 1:2,500	ST2396 1962 1:2,500

Historical Map - Segment A15



Order Details

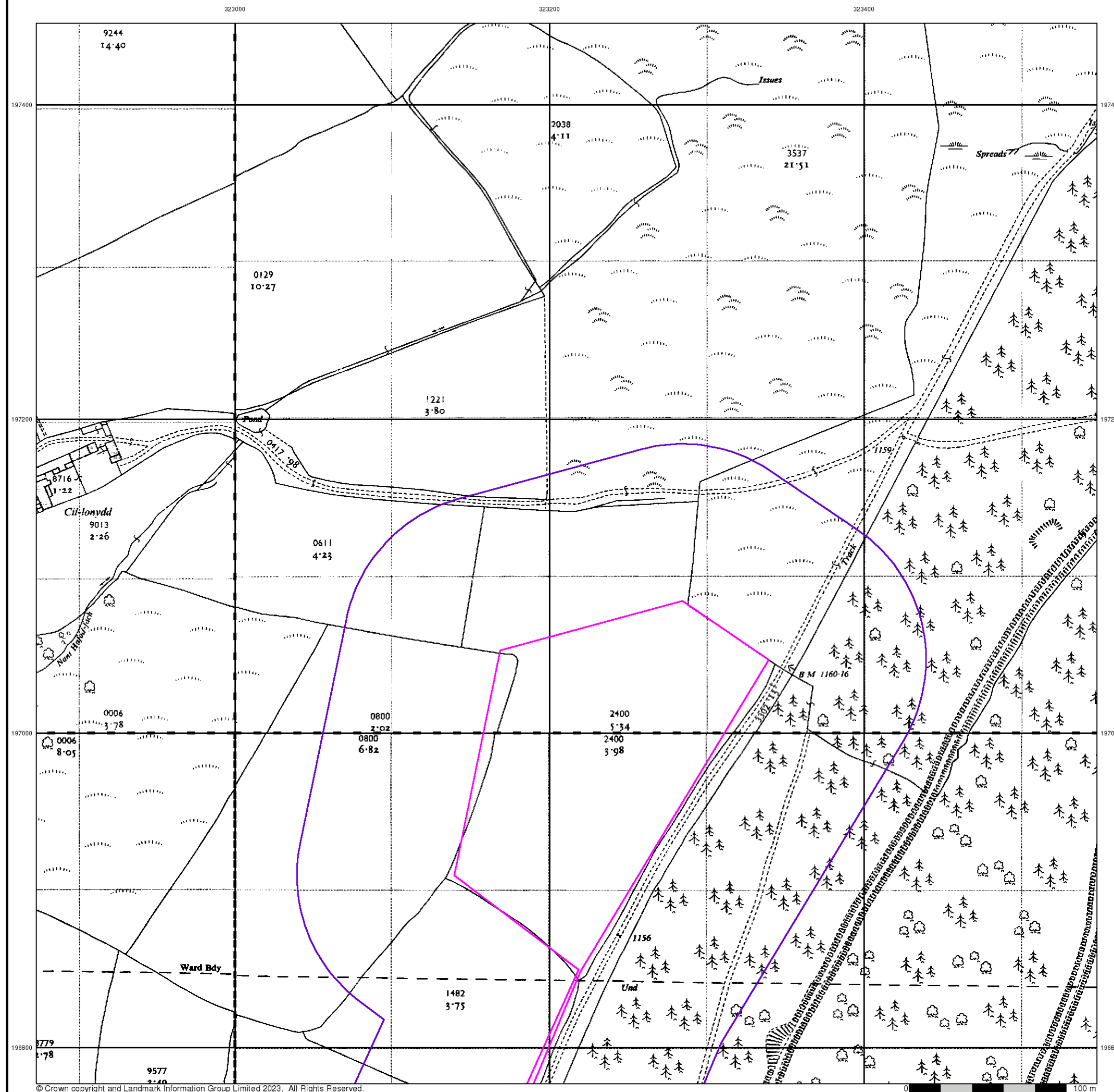
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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wood.

Additional SIMs

Published 1987 - 1989

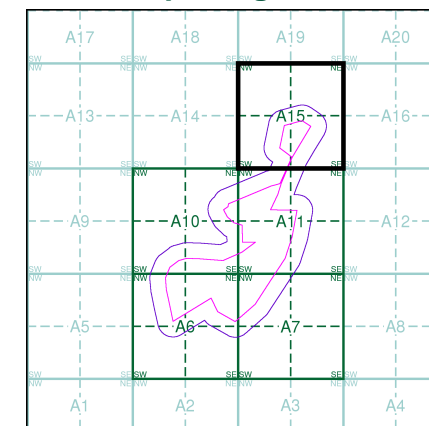
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

ST2297 1989 1:2,500	ST2397 1989 1:2,500
ST2296 1987 1:2,500	

Historical Map - Segment A15



Order Details

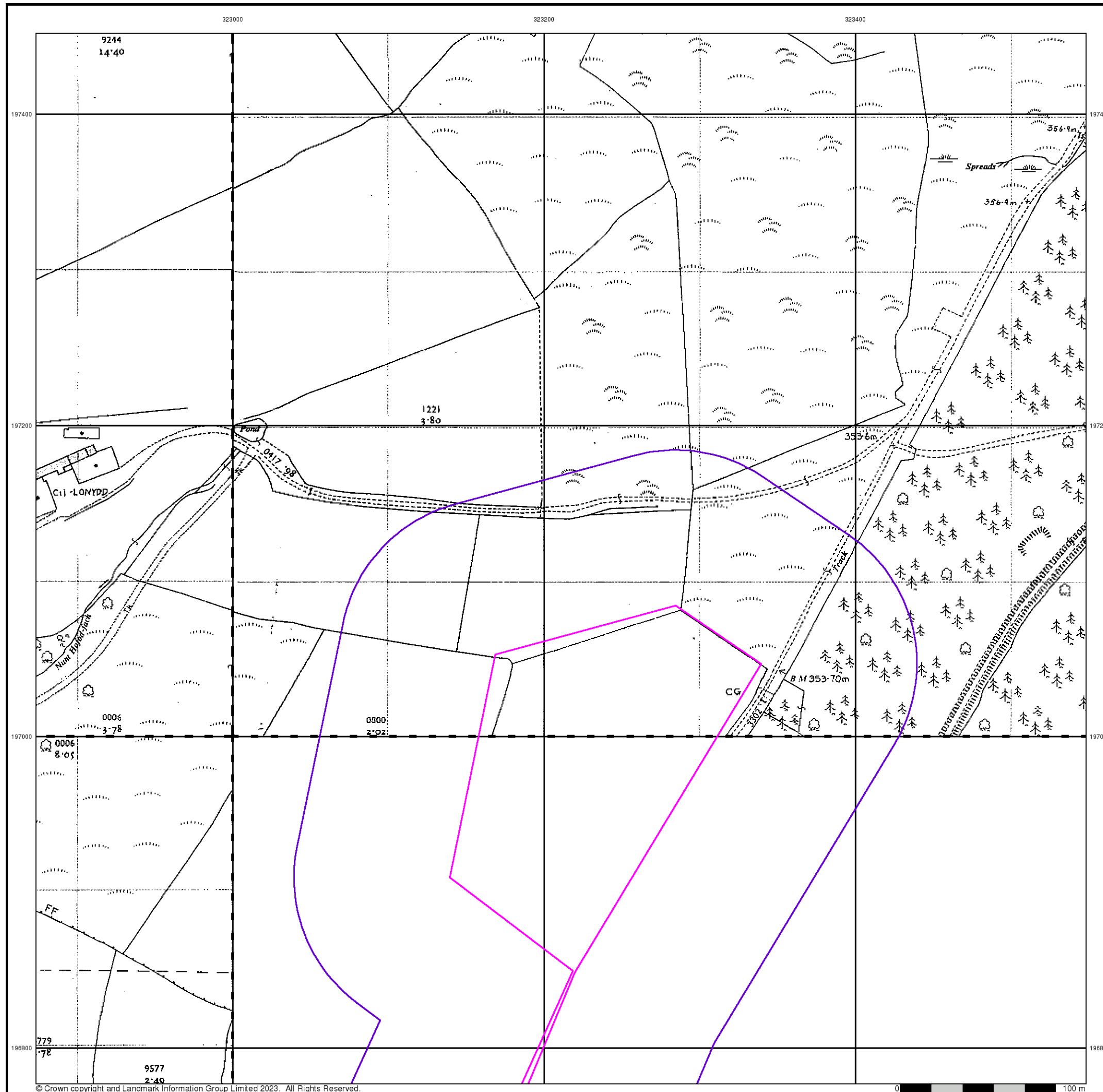
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

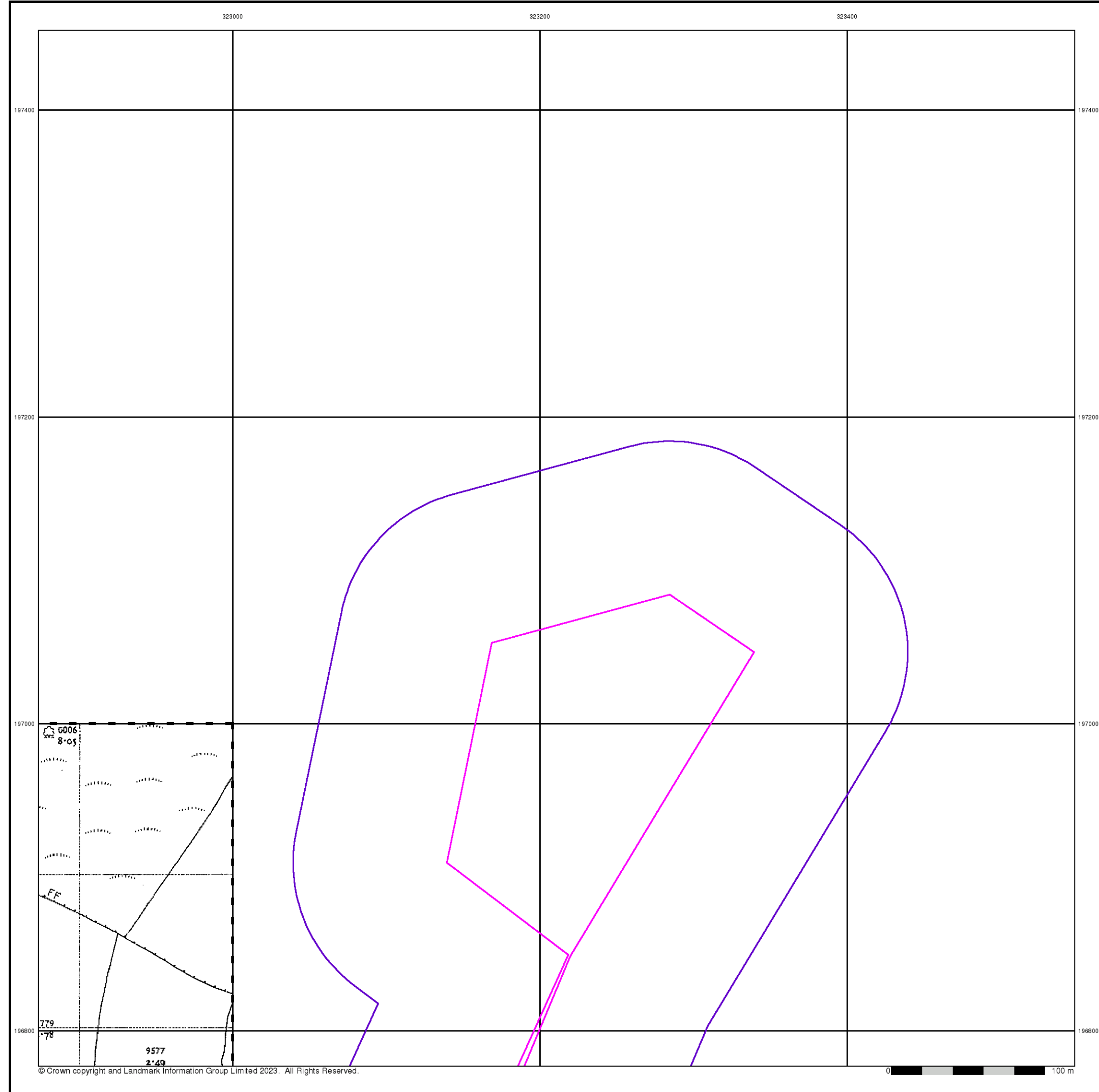
Site Details

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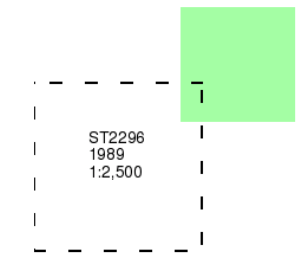




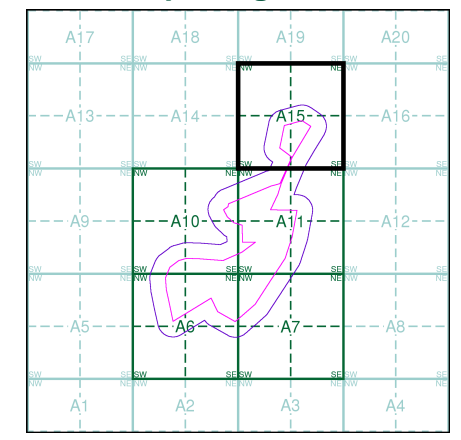
Additional SIMs
Published 1989
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A15



Order Details	
Order Number:	315136209_1_1
Customer Ref:	21966268
National Grid Reference:	322920, 196370
Slice:	A
Site Area (Ha):	38.14
Search Buffer (m):	100

Site Details
Trecelyn South Site



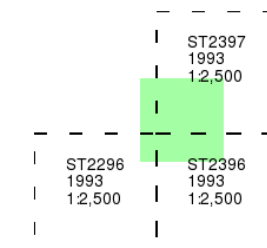
Large-Scale National Grid Data

Published 1993

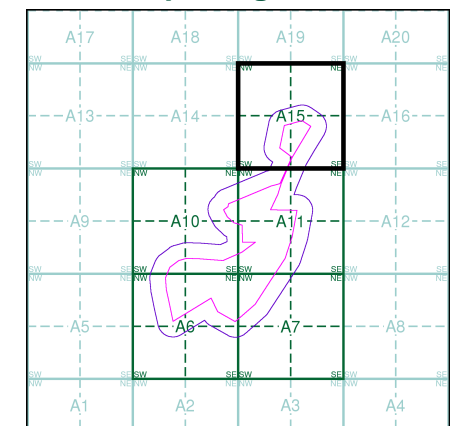
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A15



Order Details

Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

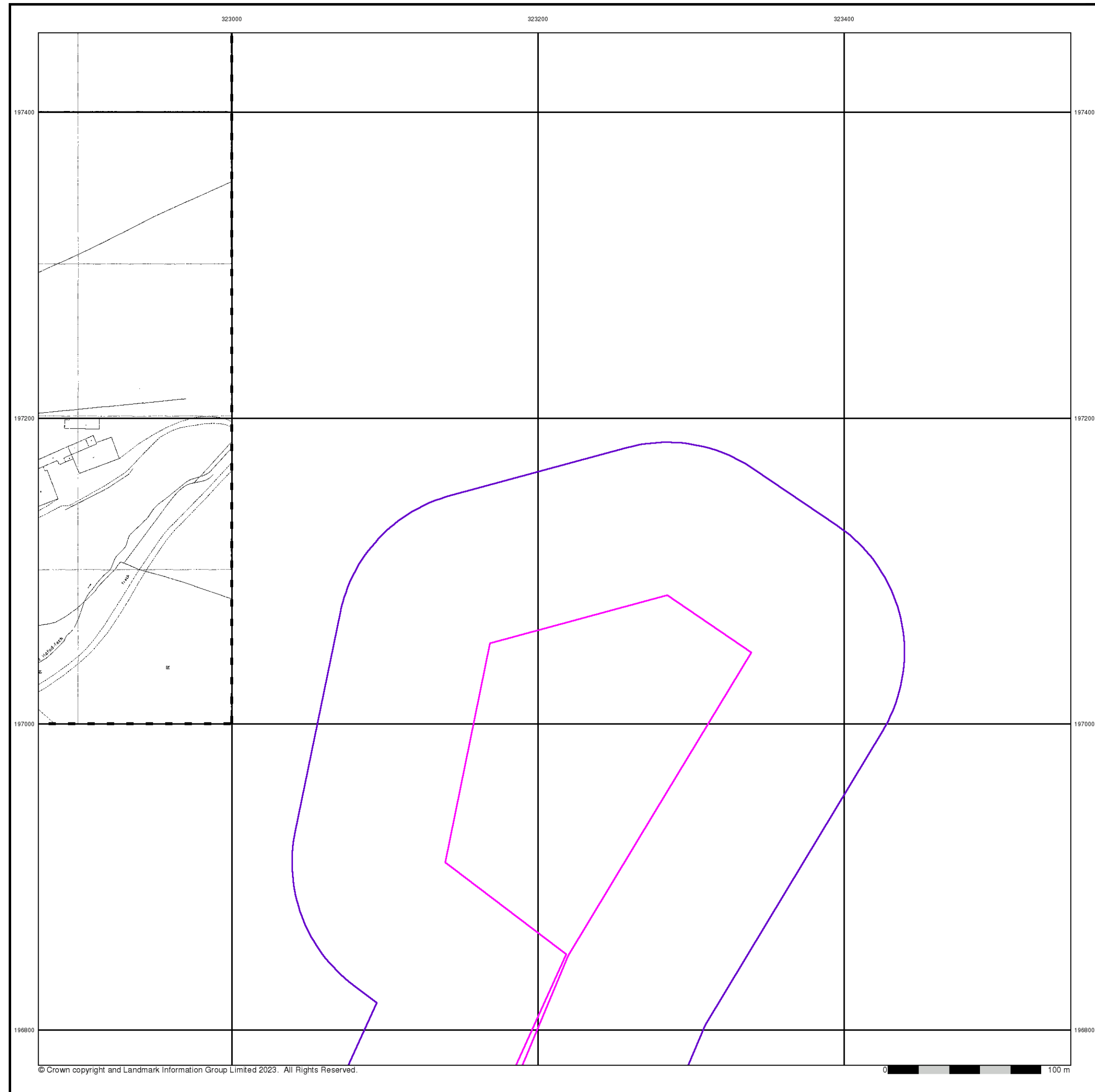
Site Details

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Fax: 0844 844 9951
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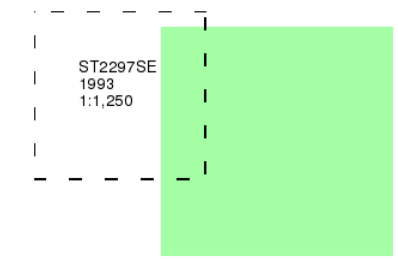
Large-Scale National Grid Data

Published 1993

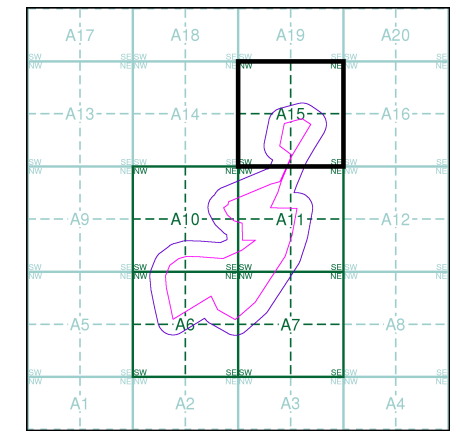
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A15



Order Details

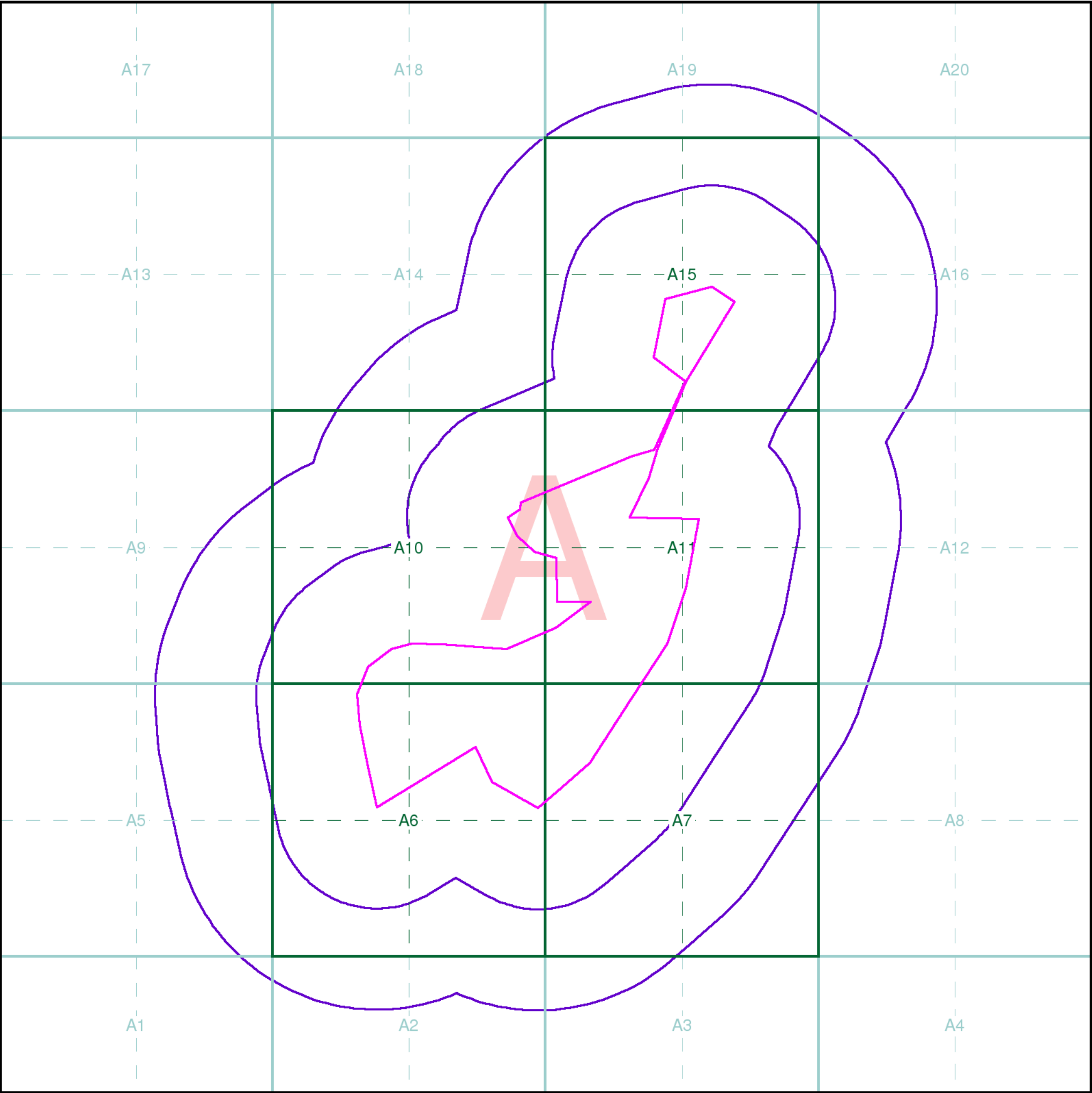
Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322920, 196370
Slice: A
Site Area (Ha): 38.14
Search Buffer (m): 100

Site Details

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Web: www.envirocheck.co.uk



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:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms L Gemmell, WSP UK Ltd, Sir Ian Wood House,
Hareness Road, Altens Industrial Estate, Aberdeen, AB12
3LE

Order Details

Order Number: 315136209_1_1
Customer Ref: 21966268
National Grid Reference: 322890, 196240
Site Area (Ha): 38.14
Search Buffer (m): 500

Site Details

Trecelyn South Site

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



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

Annex C Cornerstone (2021) Utilities Search Report

Utilities Search Report



Friday, 13 Aug 2021

Wood E&IS

MynyddMaen

Mynydd Maen

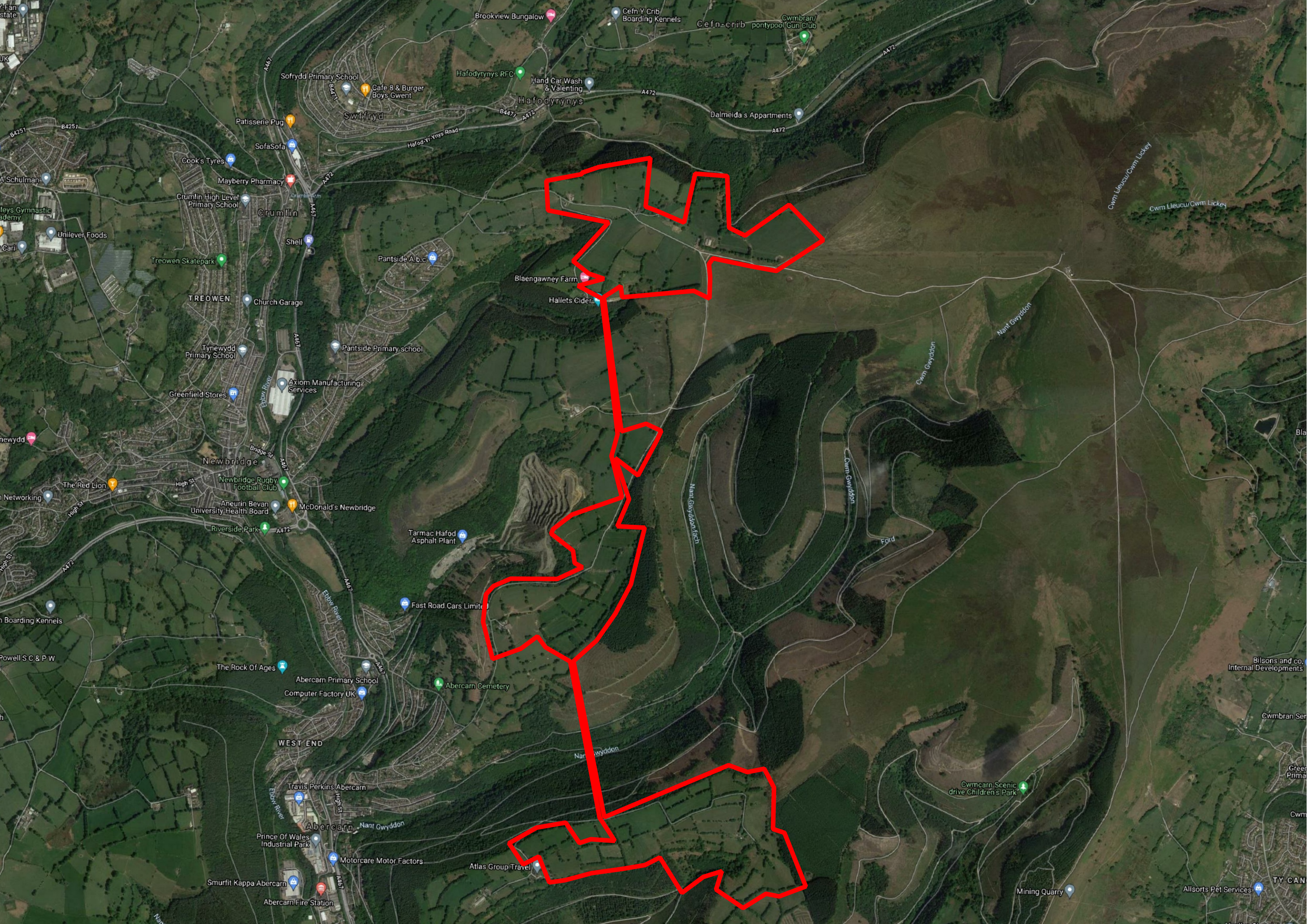
Table of contents:

Utility / Service	Included	Utility / Service	Included
Basic Search		Independent Utilities	
Gas	Yes	GTC	Yes
Water	Yes	Last Mile	Not Affected
Sewers	Yes	SSE	Not Affected
BT	Yes	Harlaxton	Not Requested
Electricity	Yes	Utility Assets	Not Affected
3rd Party Searches*	Yes	UK Power Distribution	Yes
		Albion Water	Not Affected
Cable Search		ESP	Not Affected
Vodafone	Yes	Fulcrum Pipelines	Not Affected
Virgin Media	Yes	Energy Assets	Yes
BSkyB	Yes	ENGIE	Not Affected
GTT	Not Affected	Leep Utilities	Yes
Colt	Yes		
Sota	Not Affected		
CGI Logica	Yes	Others	
Neos Networks	Not Affected	CAD Pack	Not Requested
City Fibre	Yes	Smart pdf	Not Requested
Telia Sonera	Not Affected	Coal Authority Report	Not Requested
Instalcom**	Yes		
KCom	Not Affected		
Verizon	Yes		
Trafficmaster	Not Affected		
Zayo Group	Not Affected		
Tata Communications	Not Affected		
Gamma	Not Affected		
Gigaclear Plc	Not Affected		
*Includes Utilibilly and Linesearch			

**Includes Level3, GC(UK) Ltd, GC PEC, Fibrenet UK and Fibrespan

NB: All plans / responses are valid for a maximum of three months unless noted otherwise

Order Summary





GAS

**Company Address**

Wales and West Utilities Ltd,
Wales and West House,
Spooner Close, Celtic,
Springs, Coedkernew,
Newport, NP10 8FZ

Our Ref: 22790239 MynyddMaen g01

Monday, 26 July 2021

Duncan Phillips
91 Market Street
Hoylake
Merseyside
CH47 5AA

Dear Duncan Phillips

Thank you for contacting us regarding Wales & West Utilities equipment at the above site.

I enclose an extract from our mains records of the area covered by your proposals together with a comprehensive list of General Conditions for your guidance. This information is given as a general guide and its accuracy cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated.

Where the Wales & West Utilities (WWU) plan includes a warning label about our higher pressure apparatus you must contact the WWU dig team for further guidance. If it is deemed that a site visit is required for this location we require a minimum of 10 days' notice to arrange a site visit for our engineers to give further guidance. Depending upon the nature of the works the site visit may be deemed chargeable.

No liability of any kind whatsoever is accepted by Wales and West Utilities (WWU), its agents or servants for any error or omission. Please note that all WWU equipment on site should be assumed to be LIVE until proven otherwise.

Safe digging practices, in accordance with HS(G)47, Avoiding Danger from underground services must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. Safe working procedures should be defined and practiced.

Irrespective of whether the pipeline is directly affected by the proposed development I enclose for information our general requirements for working in the vicinity of gas pipelines operating above 2 barg (T/SP/SSW22). It is our strong recommendation in the interests of safety that these general requirements be adhered to.

There are minimum proximity distances for buildings from WWU mains depending on both the operating pressure and the material of the main. Advice should be sought from WWU prior to building works taking place to confirm these distances. For High Pressure pipelines you must seek further guidance from the HSE and Local Authority Planning team regarding their LUP distances regarding building proximities as these may be in addition to WWU proximity distances for a pipeline.

In the presence of our >2barg gas pipelines no excavations are to take place within 10m of the confirmed position of these mains without prior consultation with WWU.

WWU reserves its position completely to enforce the terms of any existing easement against the landowner, even if this results in any planning permission granted not being able to be fully implemented.

**Company Address**

Wales and West Utilities Ltd,
Wales and West House,
Spooners Close, Celtic,
Springs, Coedkernew,
Newport, NP10 8FZ

You must not build over any of our plant or enclose our apparatus.

Where diversions to WWU apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you have requested a new connection the WWU connections team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

If you require advice in connection with your proposals please contact the relevant number below.

Yours sincerely,
WWU Dig Team

Gas Emergency Number:

In an emergency call 0800 111 999, 24 hours a day.

Mapping Enquiries:

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 02920 278912
Email dig@wwutilities.co.uk

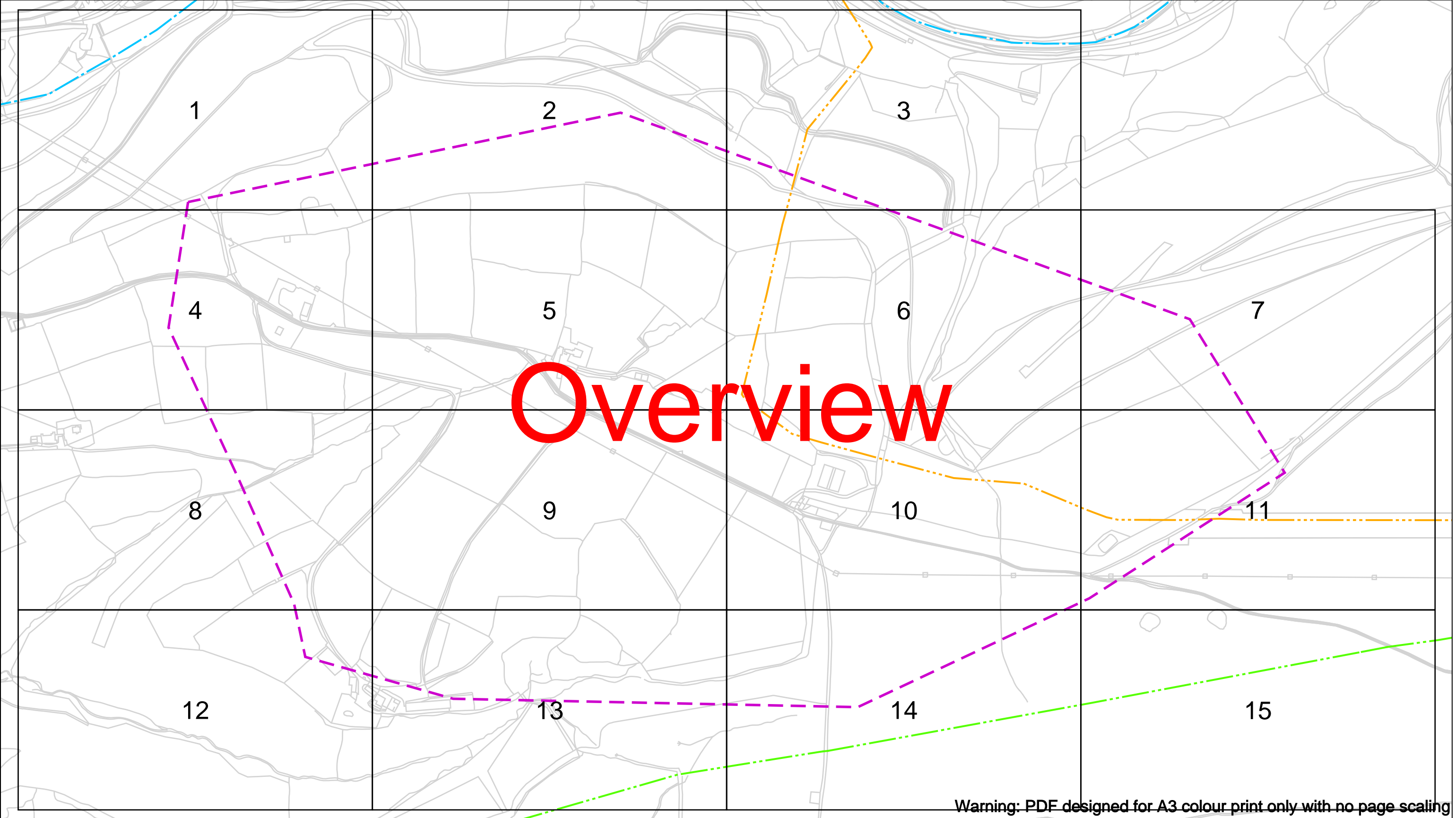
General Enquiries:

If you have a general enquiry, please call us on the following number
All areas 0800 912 29 99

LinesearchbeforeUdig:

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk



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Contact Us
Mapping Enquiries: 02920 278 912
General Enquiries: 0800 912 2999

Date Requested: 26/07/2021
Job Reference: 22790239
Site Location: 323471 198222

Requested by:
Mr Duncan Phillips
Your Scheme/Reference:
MynyddMaen g01

Scale: 1:5125 (When plotted at A3)

EXTREME CAUTION. Major Accident Hazard Pipeline in Vicinity
****RISK OF DEATH OR SERIOUS INJURY****
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IMPORTANT NOTICES

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Dig Sites

Area: Line:

Low Pressure (LP) 21mbar – 75mbar

Medium Pressure (MP) 350mbar – 2bar

Intermediate Pressure (IP) 2bar – 7bar

High Pressure (HP) >7bar

Line/Fire Valve

Governor Station

Change of Diameter

End Cap

Depth of cover

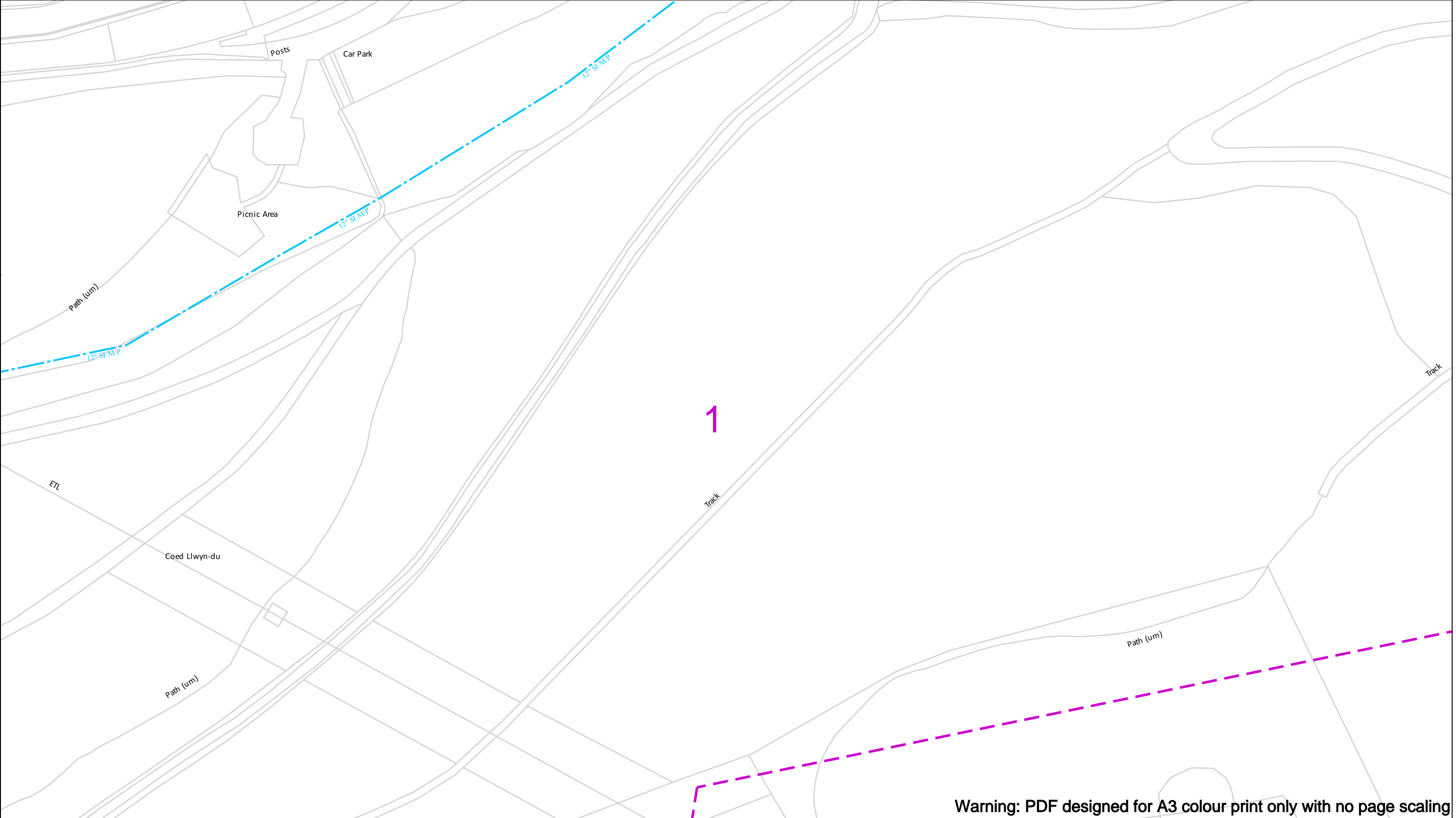
WALES & WEST UTILITIES

Smell gas?
Call the Gas Emergency Service on 0800 111 999.

Dial before you dig
We need 10 days' notice

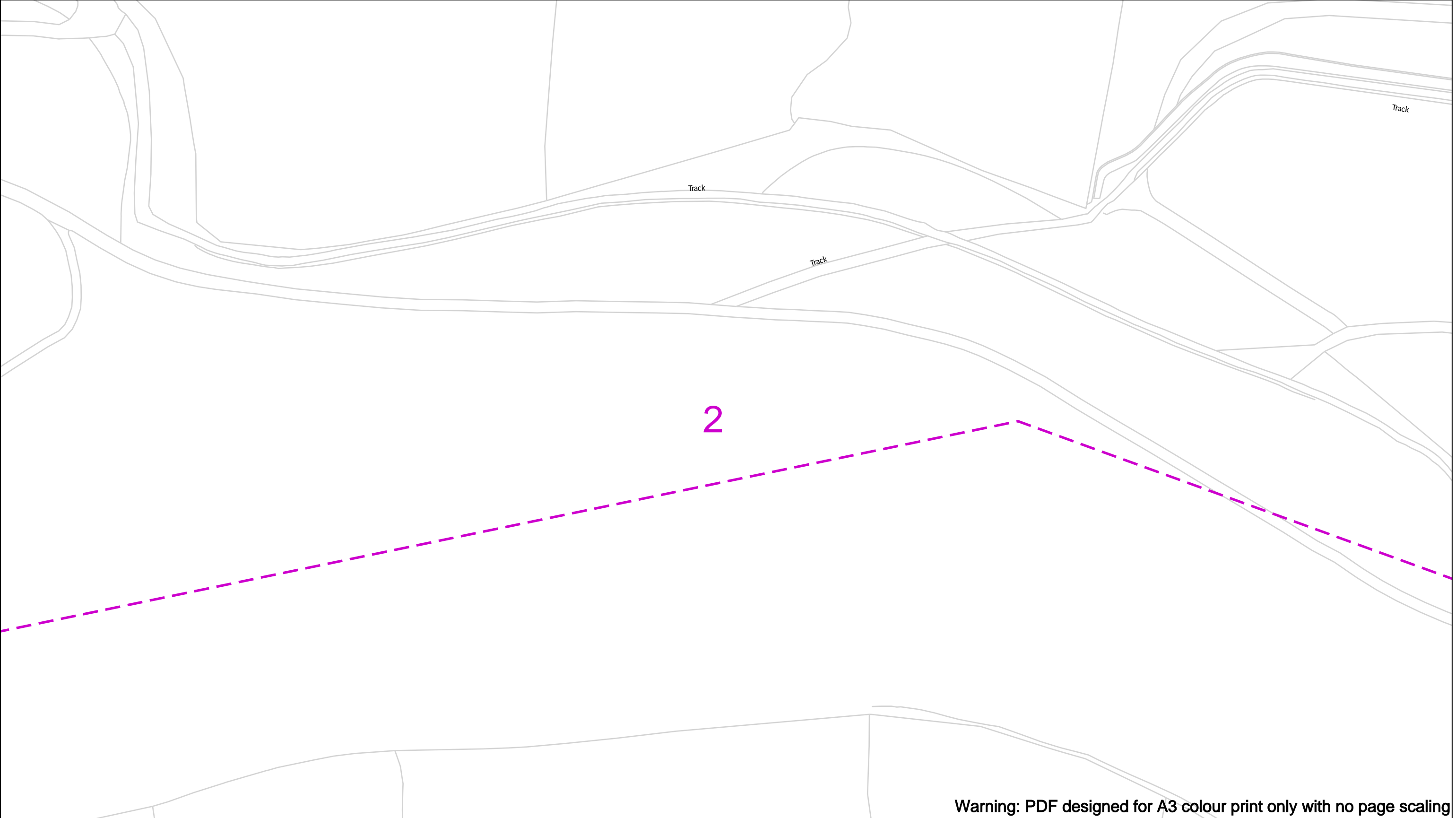
Investigate
Before you dig, make sure you know what's below.

Go ahead
Done your research? Now you can dig safely.



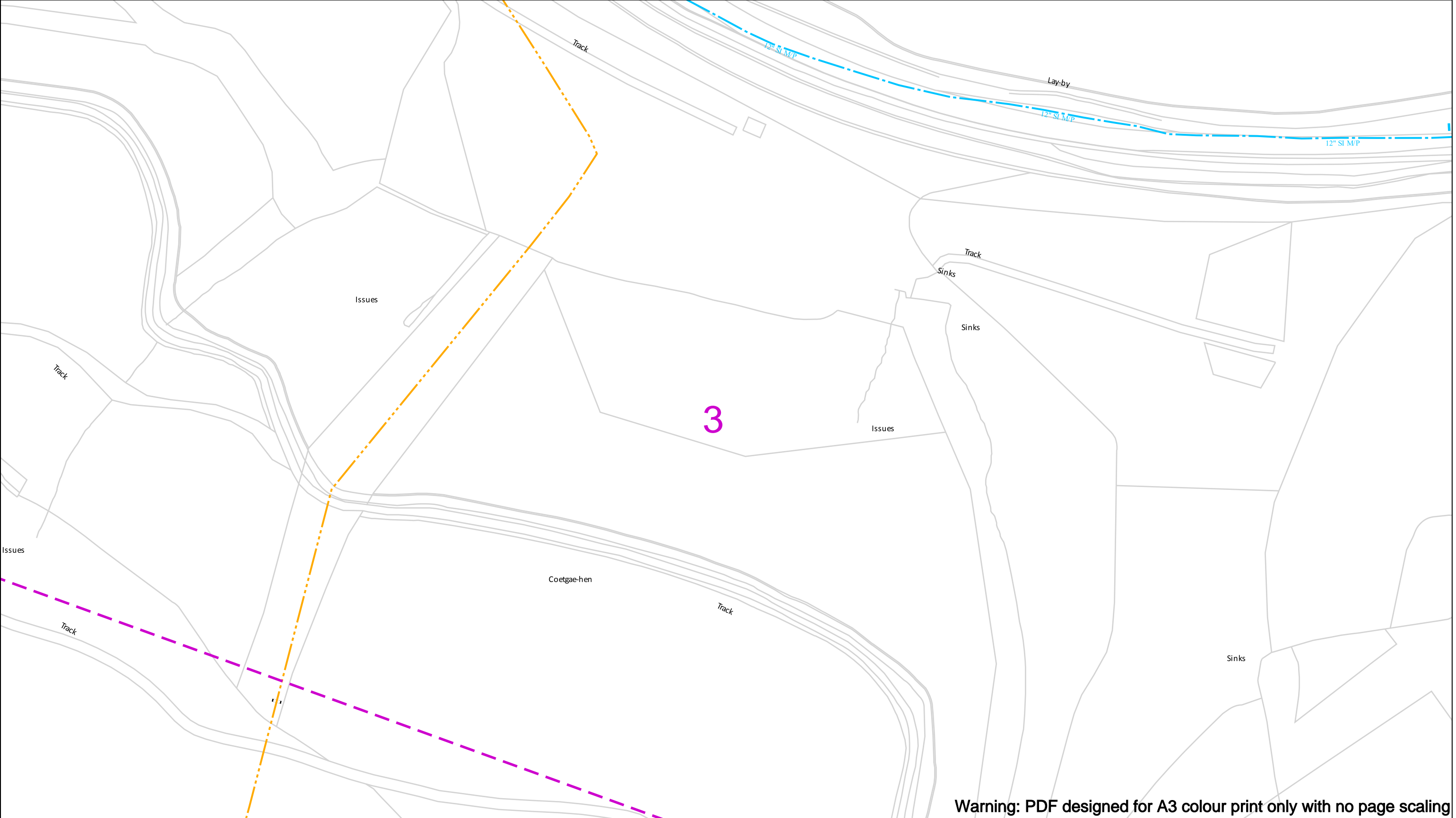
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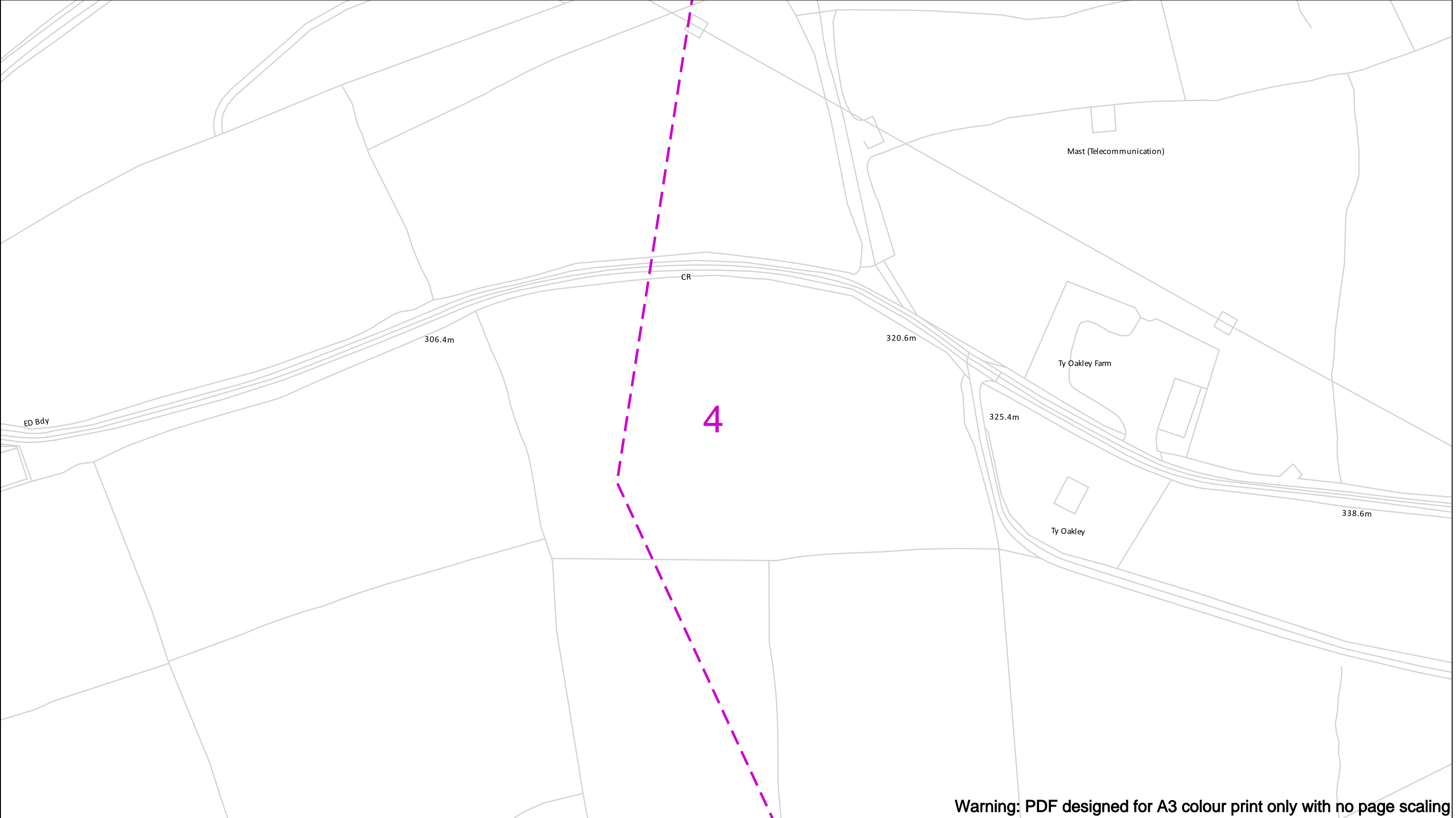
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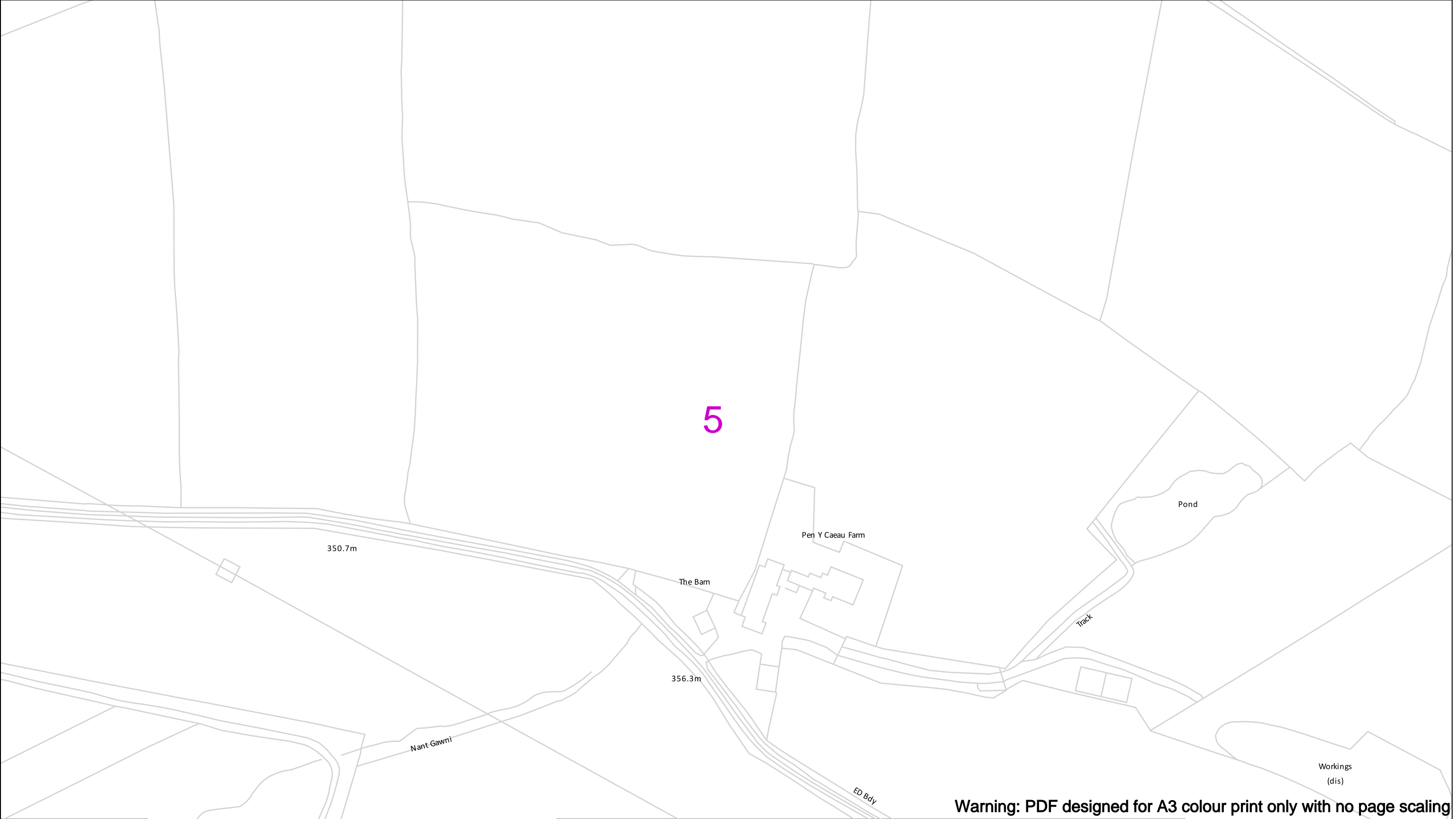
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Mapping Enquiries: 02920 278 912
General Enquiries: 0800 912 2999

Date Requested: 26/07/2021
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Site Location: 323471 198222

Requested by:
Mr Duncan Phillips
Your Scheme/Reference:
MynyddMaen g01

Scale: 1:1250 (When plotted at A3)

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100m

Dig Sites	Area:	Line:
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	Line/Fire Valve
	Governor Station
	Change of Diameter
	End Cap
	Depth of cover

WALES&WEST
UTILITIES

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We need 10 days' notice

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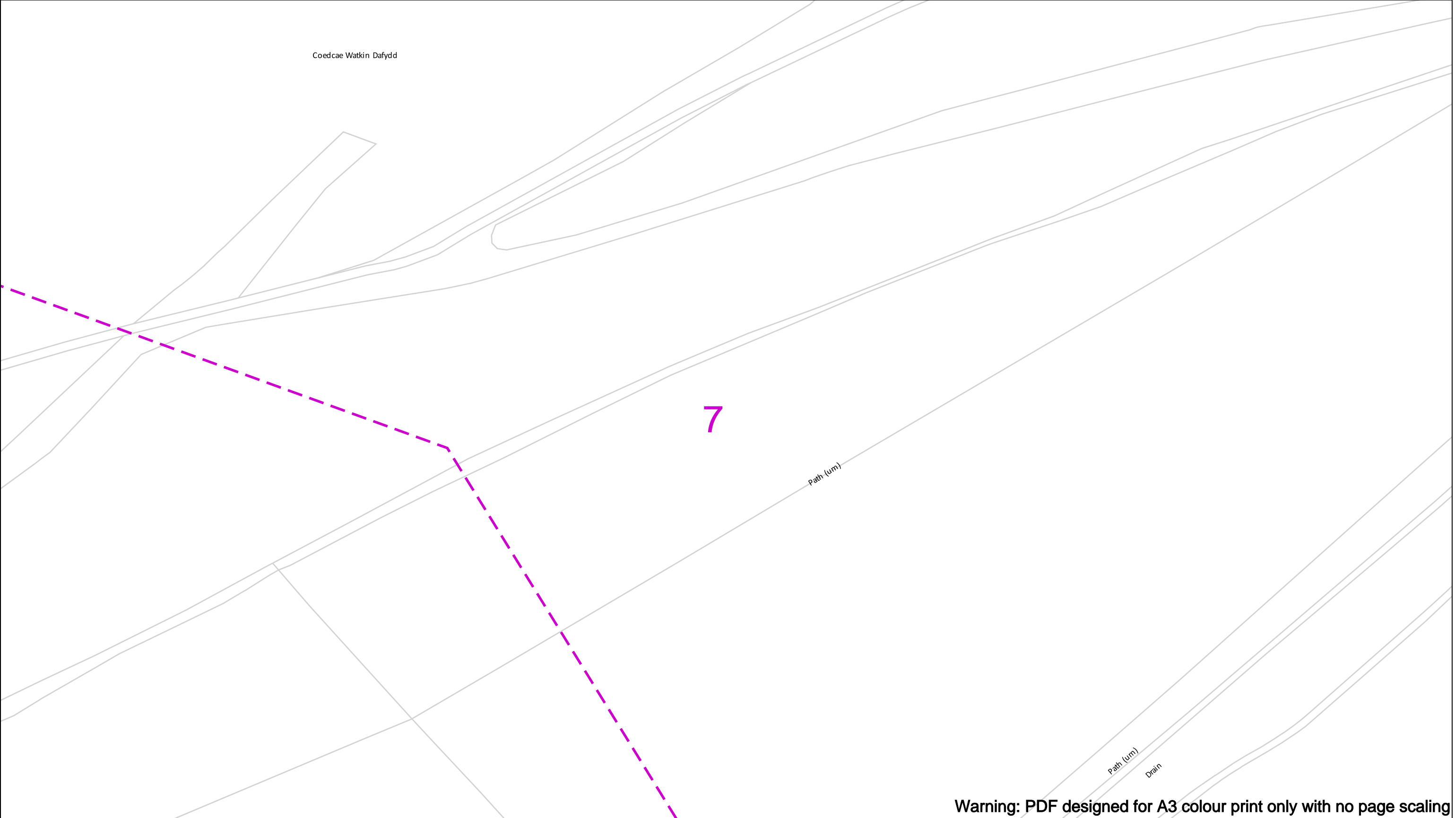
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Area: [Symbol] **Line:** [Symbol]

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100m

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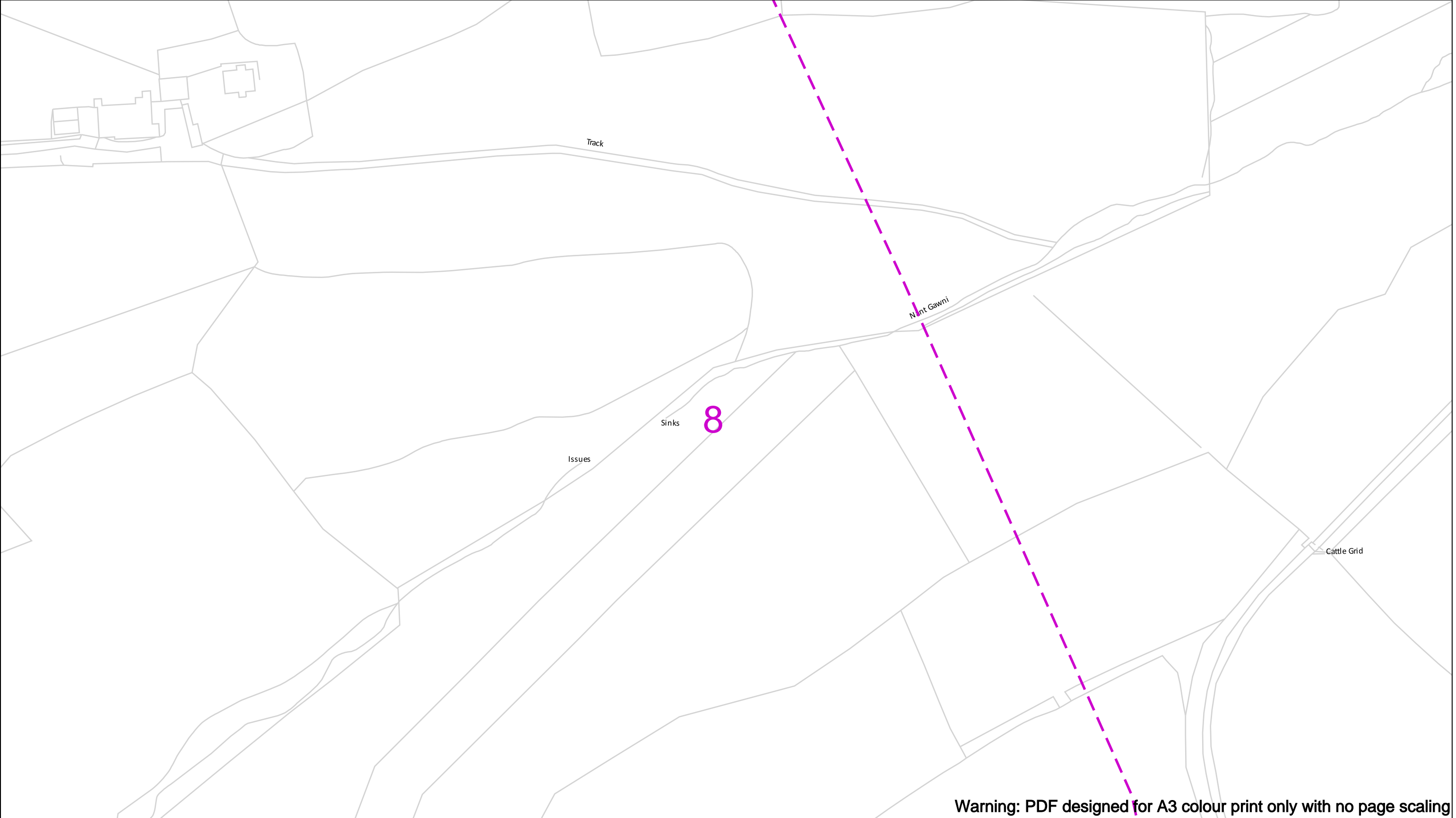
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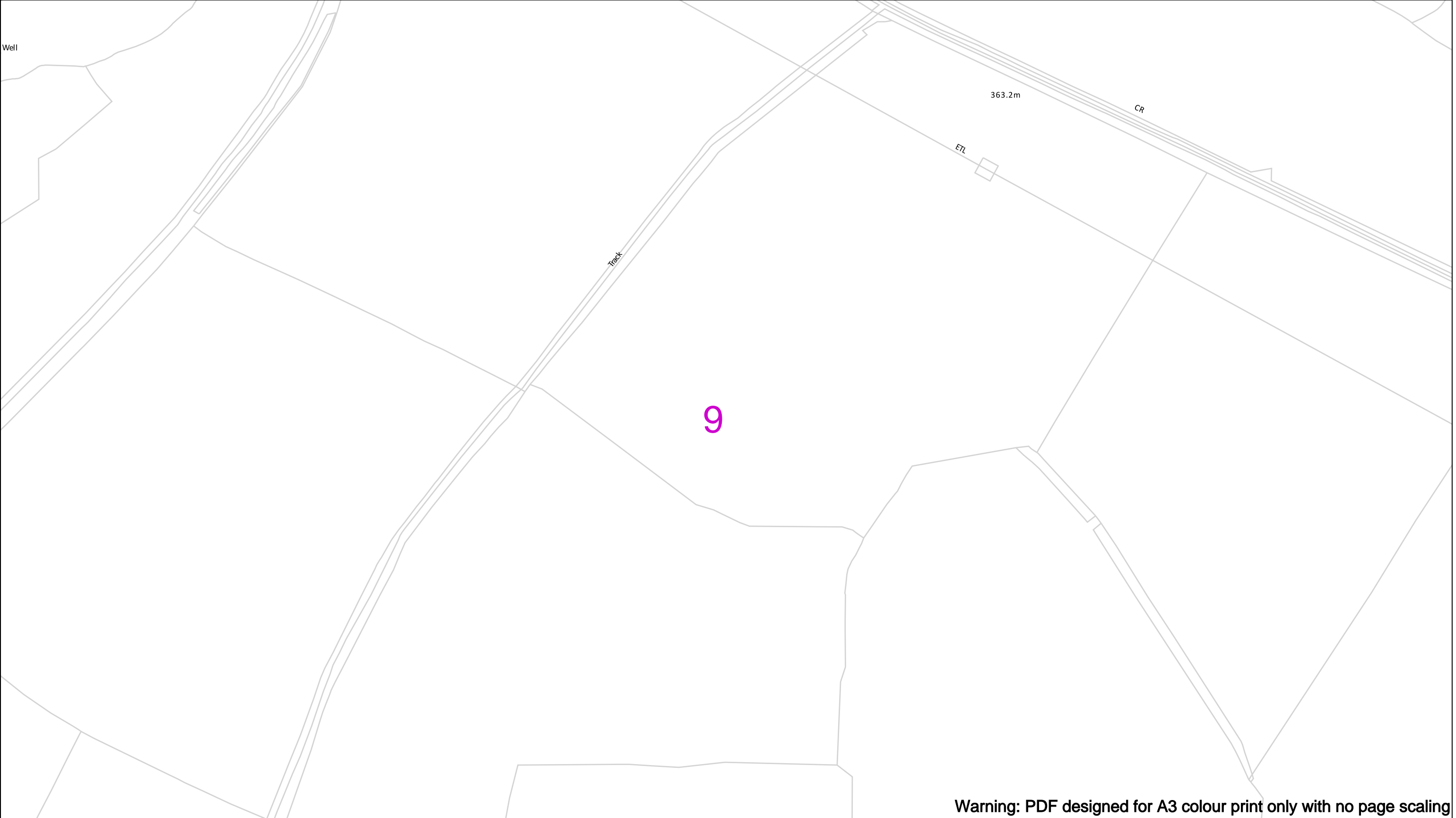
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<p>Contact Us Mapping Enquiries: 02920 278 912 General Enquiries: 0800 912 2999</p> <p>Date Requested: 26/07/2021 Job Reference: 22790239 Site Location: 323471 198222</p> <p>Requested by: Mr Duncan Phillips Your Scheme/Reference: MynyddMaen g01</p> <p>Scale: 1:1250 (When plotted at A3)</p>	<div><div>EXTREME CAUTION. Major Accident Hazard Pipeline in Vicinity **RISK OF DEATH OR SERIOUS INJURY** Prior to excavation starting you must contact the plant protection team on 02920 278912</div><div>IMPORTANT NOTICES</div><ul style="list-style-type: none">• This information is given as a guide only and its accuracy cannot be guaranteed• The plan only shows those pipes owned by Wales & West Utilities (WWU) as its role as a licensed Gas Transporter• Service pipes, valves, syphons, stub connections etc. may not be shown but their presence should be anticipated• You must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains, services and other apparatus before any mechanical excavation is used• It is your responsibility to ensure this information is provided to all persons working near our plant• If in doubt call the WWU dig team on 02920 278912</div>	<div><div>In case of an emergency call 0800 111 999</div><div><div><div><div>Dig Sites</div><div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div>Low Pressure (LP) 21mbar – 75mbar</div><div>Medium Pressure (MP) 350mbar – 2bar</div><div>Intermediate Pressure (IP) 2bar – 7bar</div><div>High Pressure (HP) >7bar</div></div></div><div><div>Area: <div></div> Line: <div></div></div></div><div><div><div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div>Line/Fire Valve</div><div>Governor Station</div><div>Change of Diameter</div><div>End Cap</div><div>Depth of cover</div></div></div></div></div></div></div>	<div><div><div><div><div></div></div><div>WALES&WEST UTILITIES</div></div><div><div><div>Dial before you dig</div><div>We need 10 days* notice</div></div><div><div><div>Smell gas? Call the Gas Emergency Service on 0800 111 999.</div><div><div><div><div><div></div></div><div>Dial Call 029 2027 8912 before you start work.</div><div><div></div></div><div>Investigate Before you dig, make sure you know what's below.</div><div><div></div></div><div>Go ahead Done your research? Now you can dig safely.</div></div></div></div></div></div></div></div></div>
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Date Requested: 26/07/2021
Job Reference: 22790239
Site Location: 323471 198222
Requested by:
Mr Duncan Phillips
Your Scheme/Reference:
MynyddMaen g01

Scale: 1:1250 (When plotted at A3)

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100m

Dig Sites	Area:	Line:
	Low Pressure (LP) 21mbar – 75mbar	
	Medium Pressure (MP) 350mbar – 2bar	
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	High Pressure (HP) >7bar	

	Line/Fire Valve
	Governor Station
	Change of Diameter
	End Cap
	Depth of cover

WALES&WEST
UTILITIES

Smell gas?
Call the Gas Emergency Service on
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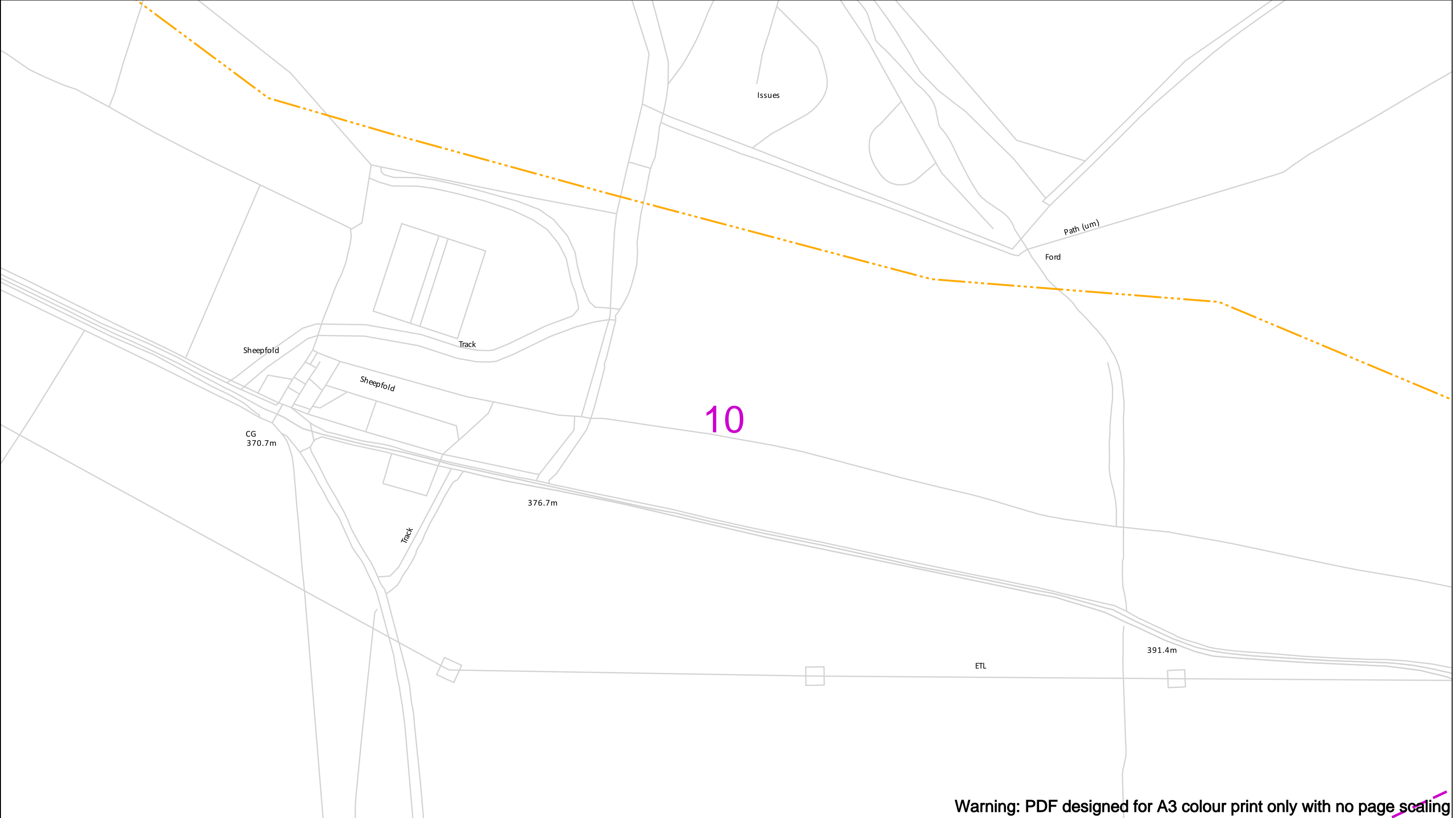
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Investigate
Before you dig, make sure
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Go ahead
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WALES&WEST UTILITIES

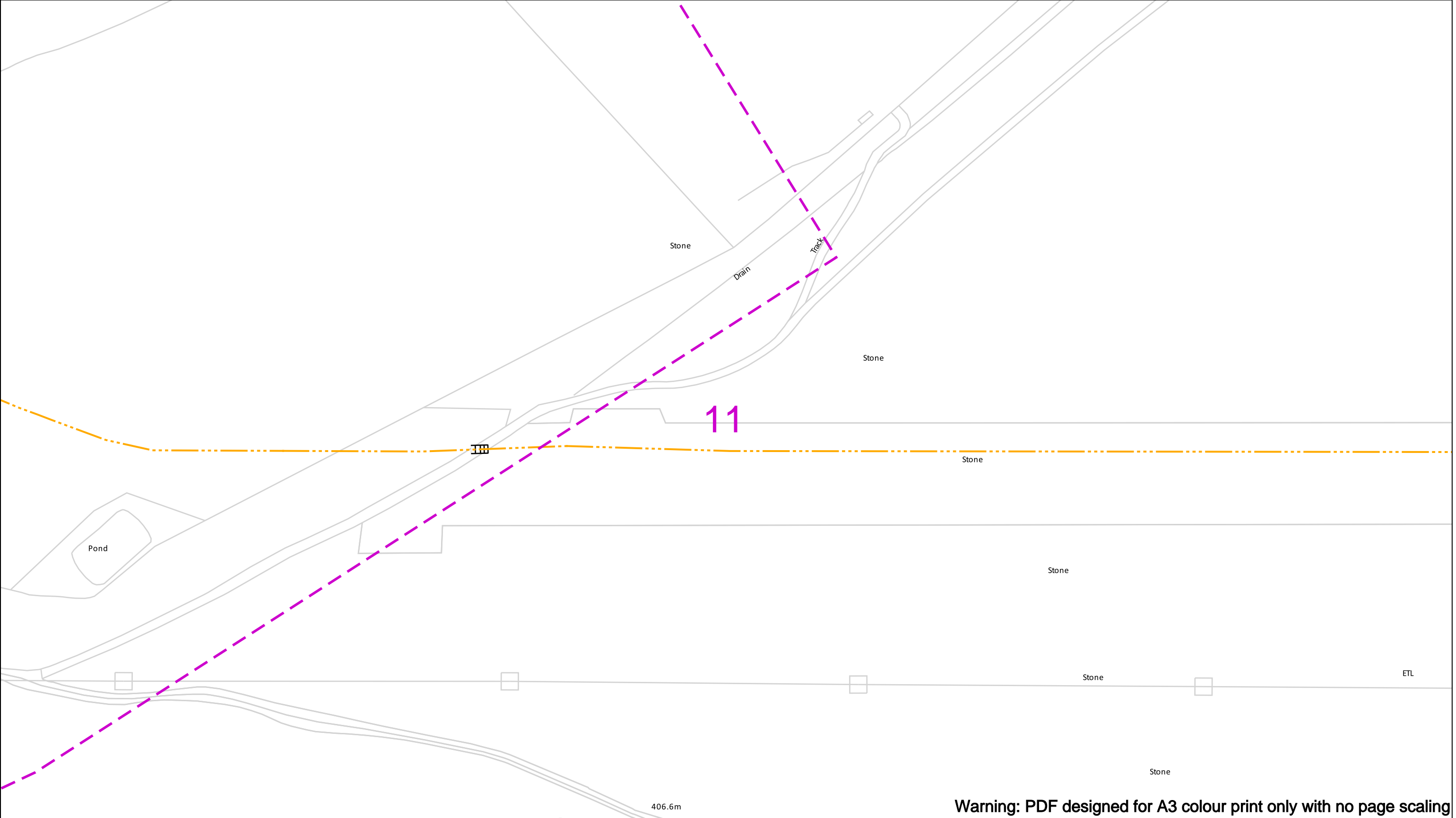
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Line/Fire Valve

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End Cap

Depth of cover

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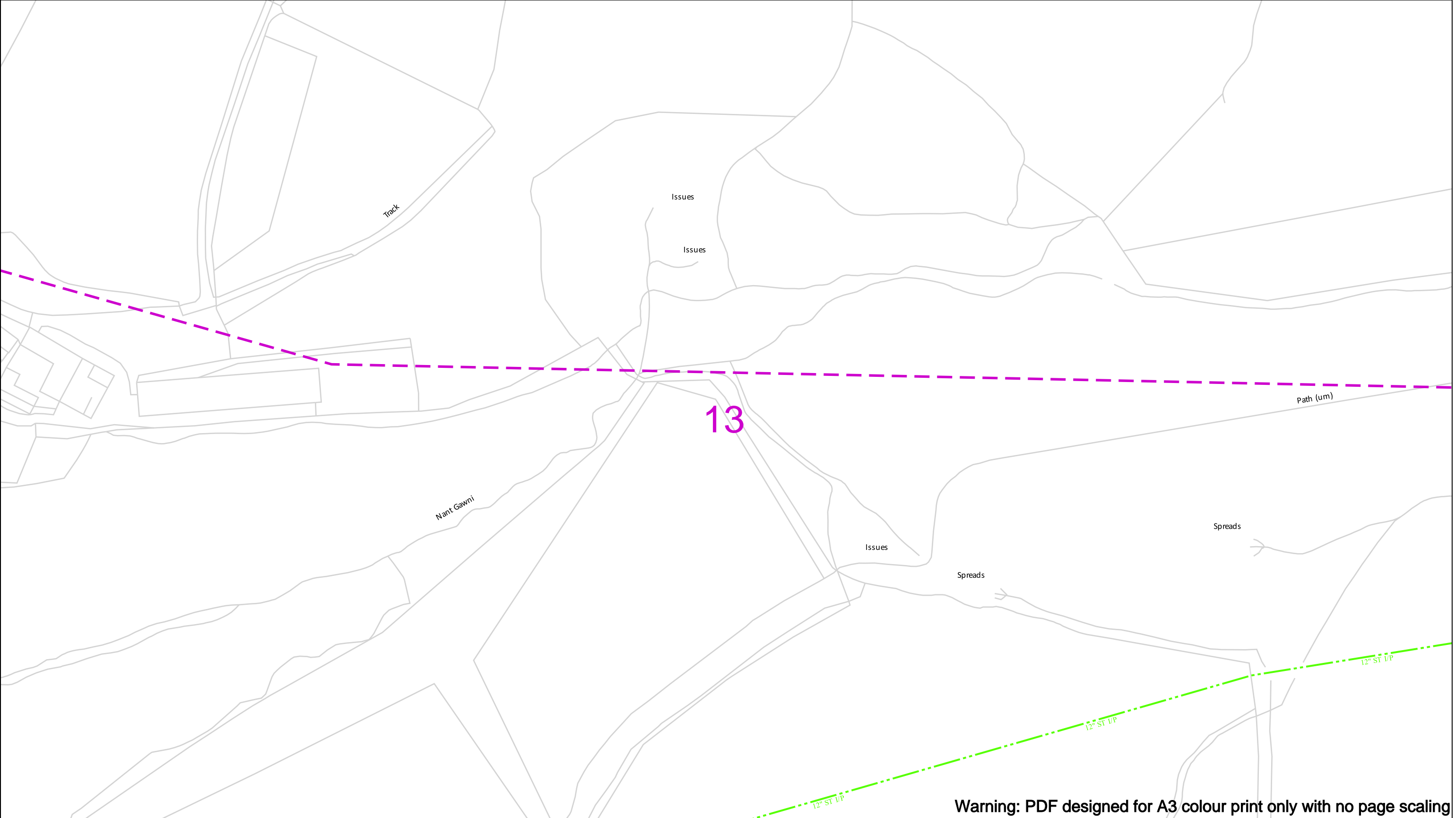
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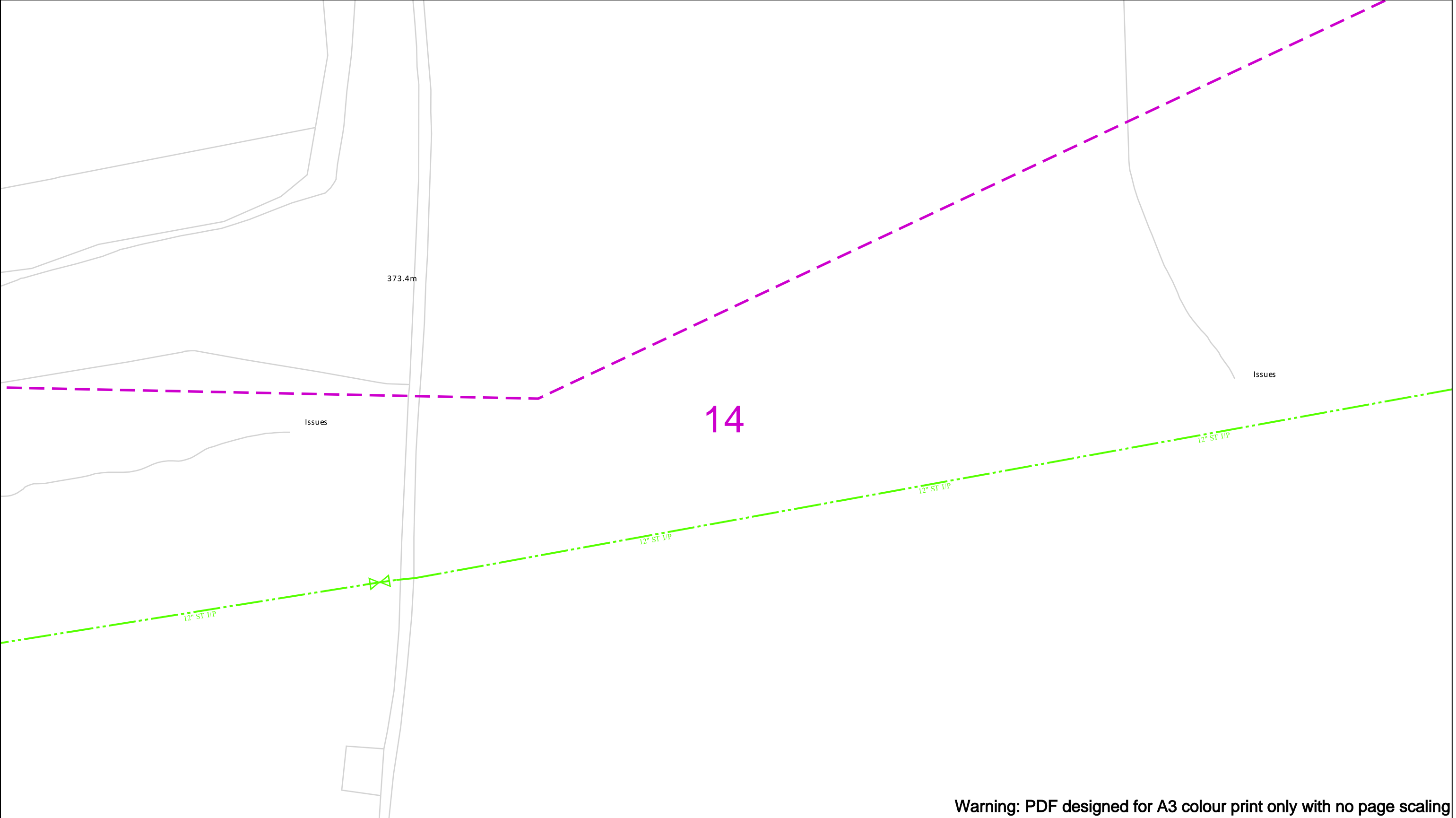
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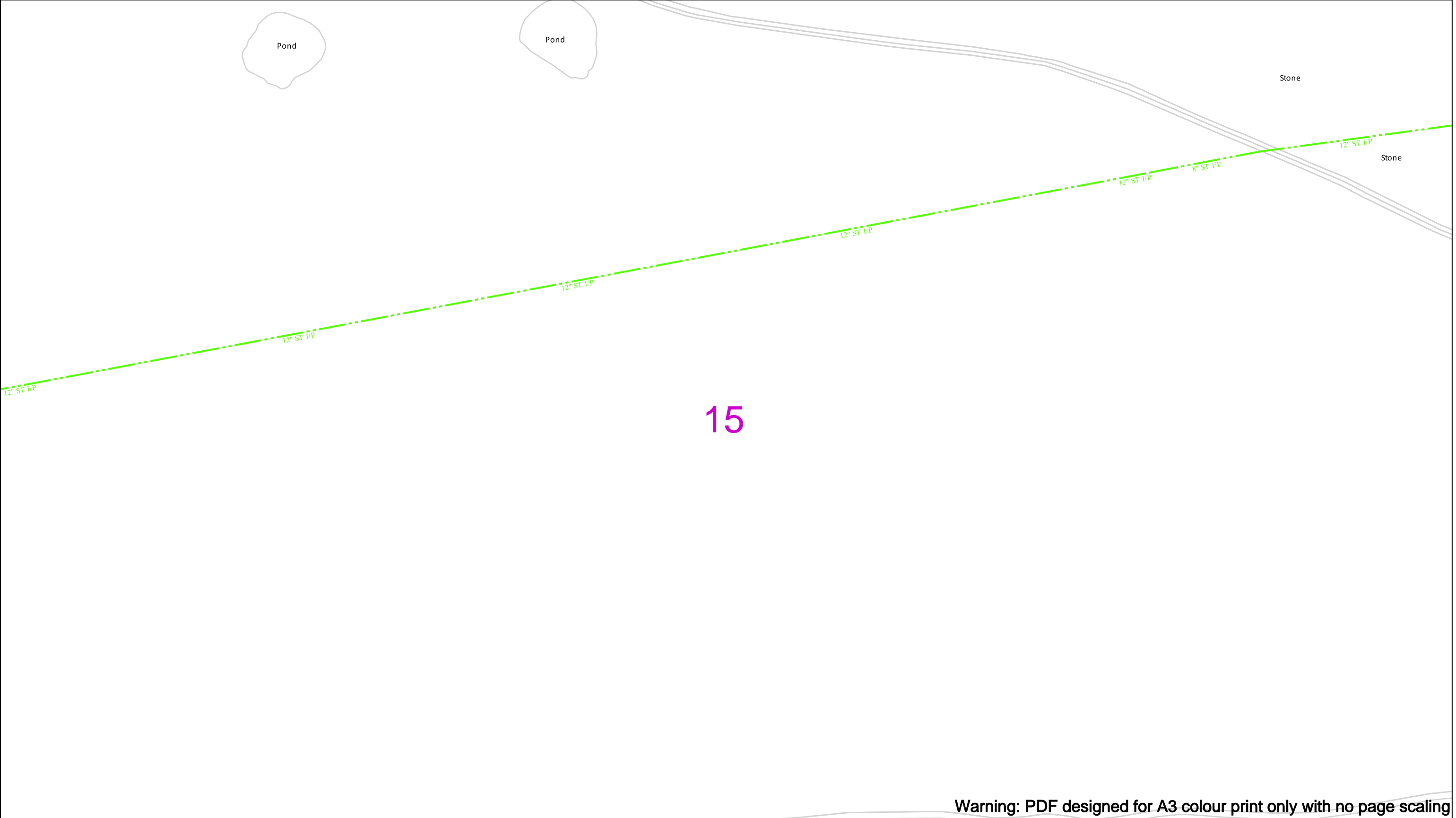
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Dig Sites

Area: Line:

Low Pressure (LP) 21mbar – 75mbar

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High Pressure (HP) >7bar

Line/Fire Valve

Governor Station

Change of Diameter

End Cap

Depth of cover

100m

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**Company Address**

Wales and West Utilities Ltd,
Wales and West House,
Spooner Close, Celtic,
Springs, Coedkernew,
Newport, NP10 8FZ

Our Ref: 22790264 MynyddMaen g02

Monday, 26 July 2021

Duncan Phillips
91 Market Street
Hoylake
Merseyside
CH47 5AA

Dear Duncan Phillips

Thank you for contacting us regarding Wales & West Utilities equipment at the above site.

I enclose an extract from our mains records of the area covered by your proposals together with a comprehensive list of General Conditions for your guidance. This information is given as a general guide and its accuracy cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated.

Where the Wales & West Utilities (WWU) plan includes a warning label about our higher pressure apparatus you must contact the WWU dig team for further guidance. If it is deemed that a site visit is required for this location we require a minimum of 10 days' notice to arrange a site visit for our engineers to give further guidance. Depending upon the nature of the works the site visit may be deemed chargeable.

No liability of any kind whatsoever is accepted by Wales and West Utilities (WWU), its agents or servants for any error or omission. Please note that all WWU equipment on site should be assumed to be LIVE until proven otherwise.

Safe digging practices, in accordance with HS(G)47, Avoiding Danger from underground services must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. Safe working procedures should be defined and practiced.

Irrespective of whether the pipeline is directly affected by the proposed development I enclose for information our general requirements for working in the vicinity of gas pipelines operating above 2 barg (T/SP/SSW22). It is our strong recommendation in the interests of safety that these general requirements be adhered to.

There are minimum proximity distances for buildings from WWU mains depending on both the operating pressure and the material of the main. Advice should be sought from WWU prior to building works taking place to confirm these distances. For High Pressure pipelines you must seek further guidance from the HSE and Local Authority Planning team regarding their LUP distances regarding building proximities as these may be in addition to WWU proximity distances for a pipeline.

In the presence of our >2barg gas pipelines no excavations are to take place within 10m of the confirmed position of these mains without prior consultation with WWU.

WWU reserves its position completely to enforce the terms of any existing easement against the landowner, even if this results in any planning permission granted not being able to be fully implemented.

**Company Address**

Wales and West Utilities Ltd,
Wales and West House,
Spooners Close, Celtic,
Springs, Coedkernew,
Newport, NP10 8FZ

You must not build over any of our plant or enclose our apparatus.

Where diversions to WWU apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you have requested a new connection the WWU connections team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

If you require advice in connection with your proposals please contact the relevant number below.

Yours sincerely,
WWU Dig Team

Gas Emergency Number:

In an emergency call 0800 111 999, 24 hours a day.

Mapping Enquiries:

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 02920 278912
Email dig@wwutilities.co.uk

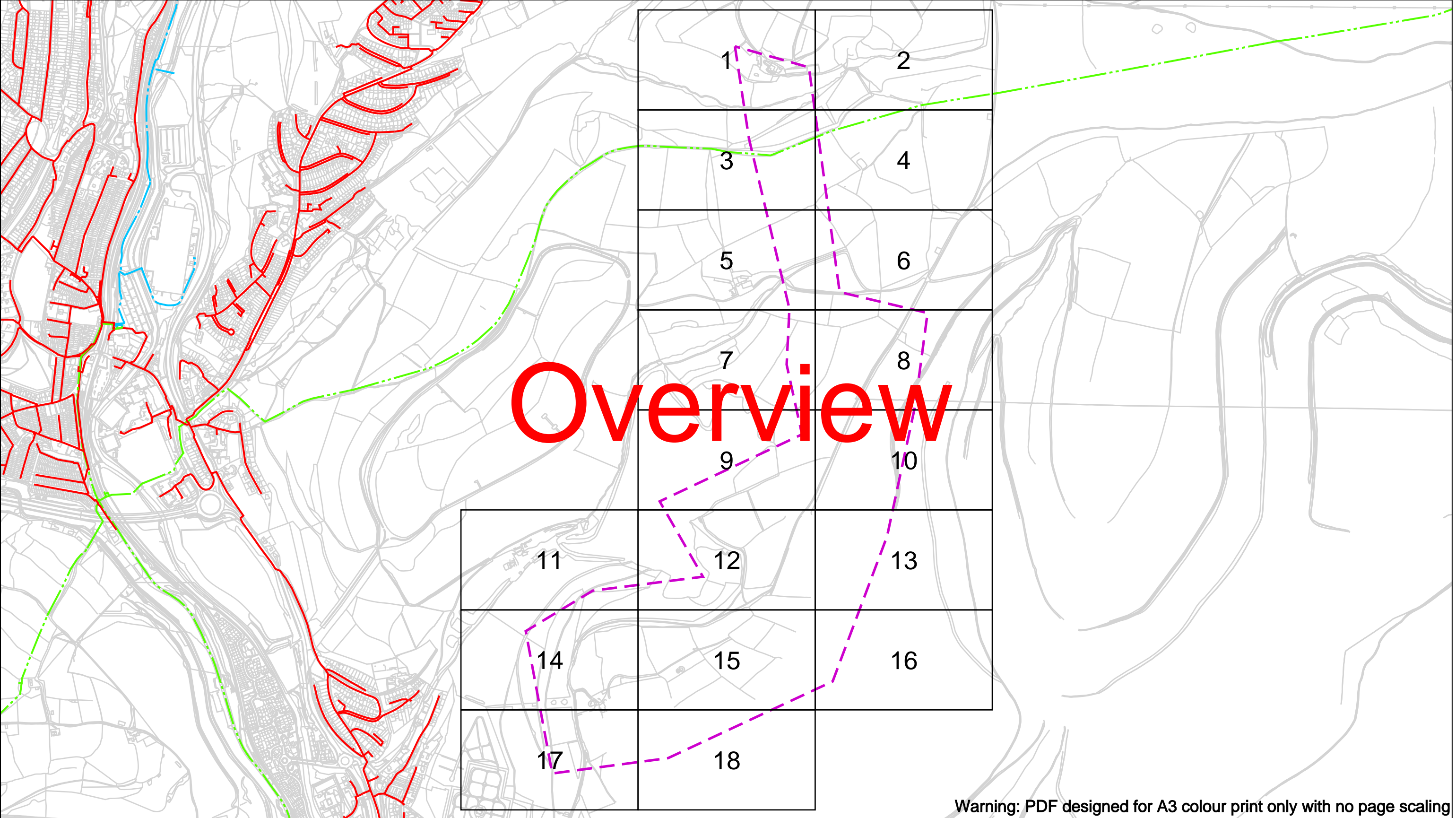
General Enquiries:

If you have a general enquiry, please call us on the following number
All areas 0800 912 29 99

LinesearchbeforeUdig:

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk



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Contact Us
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General Enquiries: 0800 912 2999

Date Requested: 26/07/2021
Job Reference: 22790264
Site Location: 323219 196782

Requested by:
Mr Duncan Phillips
Your Scheme/Reference:
MynyddMaen g02

Scale: 1:10250 (When plotted at A3)

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	Medium Pressure (MP) 350mbar – 2bar	Change of Diameter
	Intermediate Pressure (IP) 2bar – 7bar	End Cap
	High Pressure (HP) >7bar	Depth of cover

WALES&WEST UTILITIES

Dial before you dig

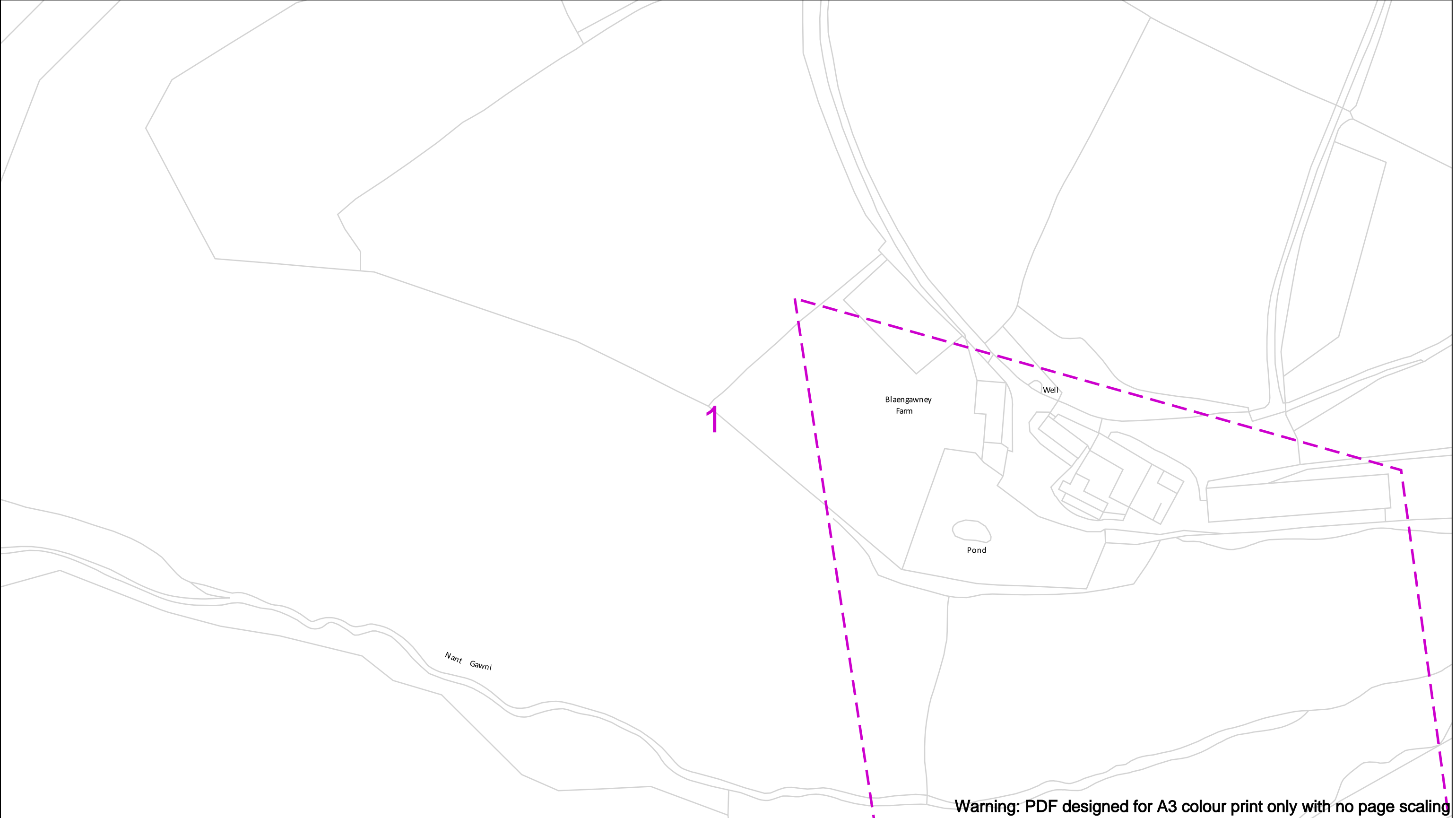
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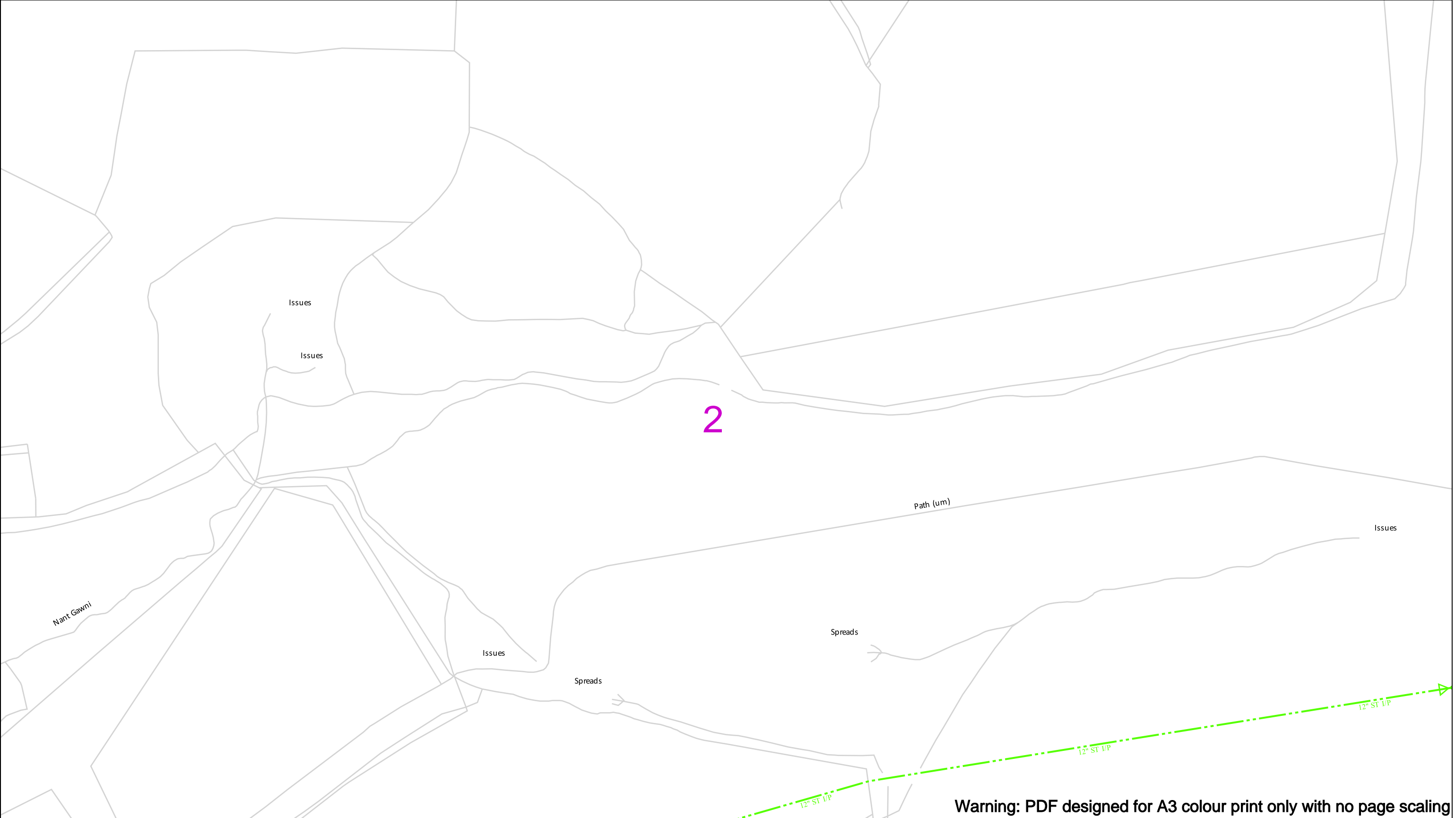
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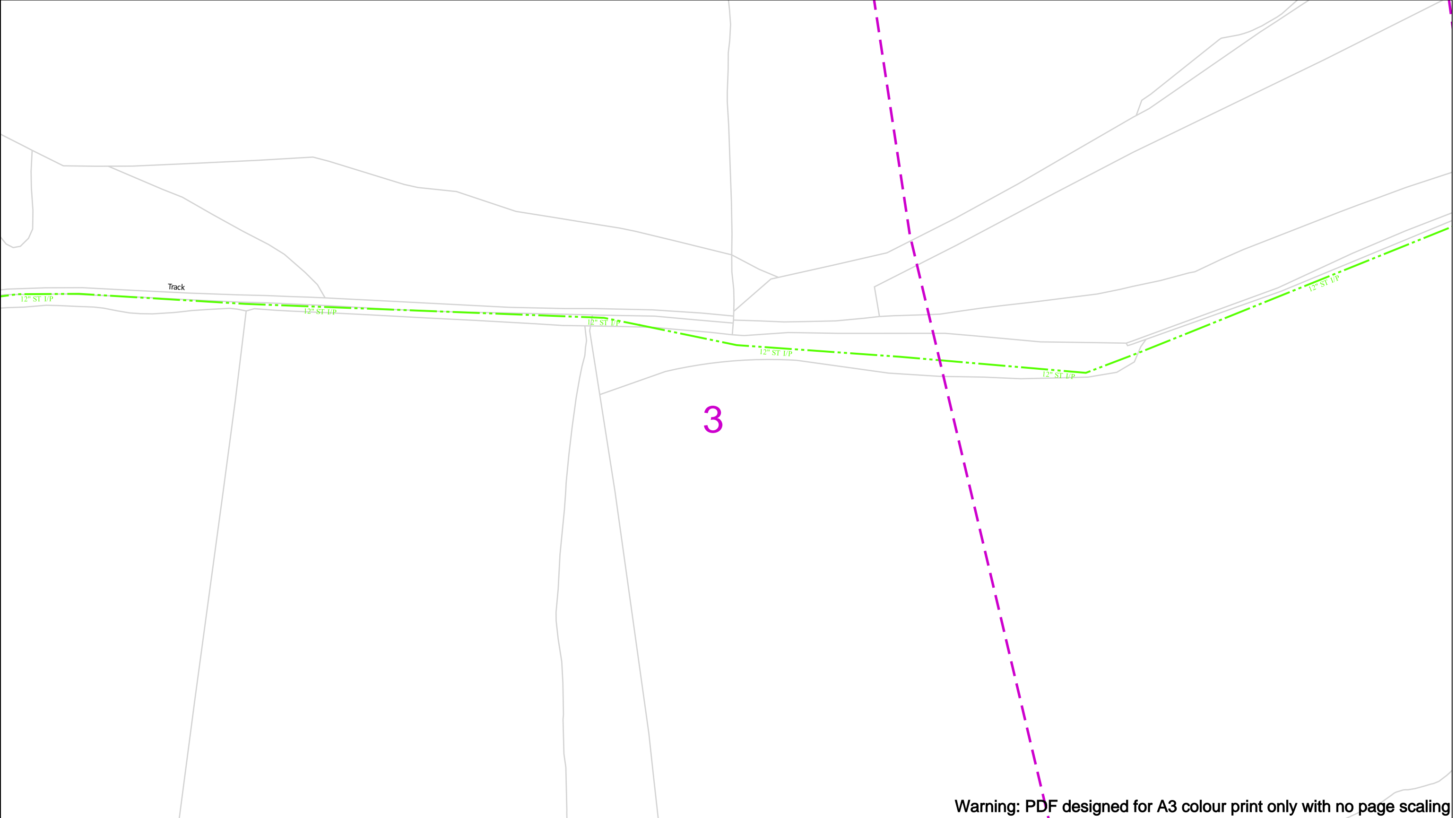
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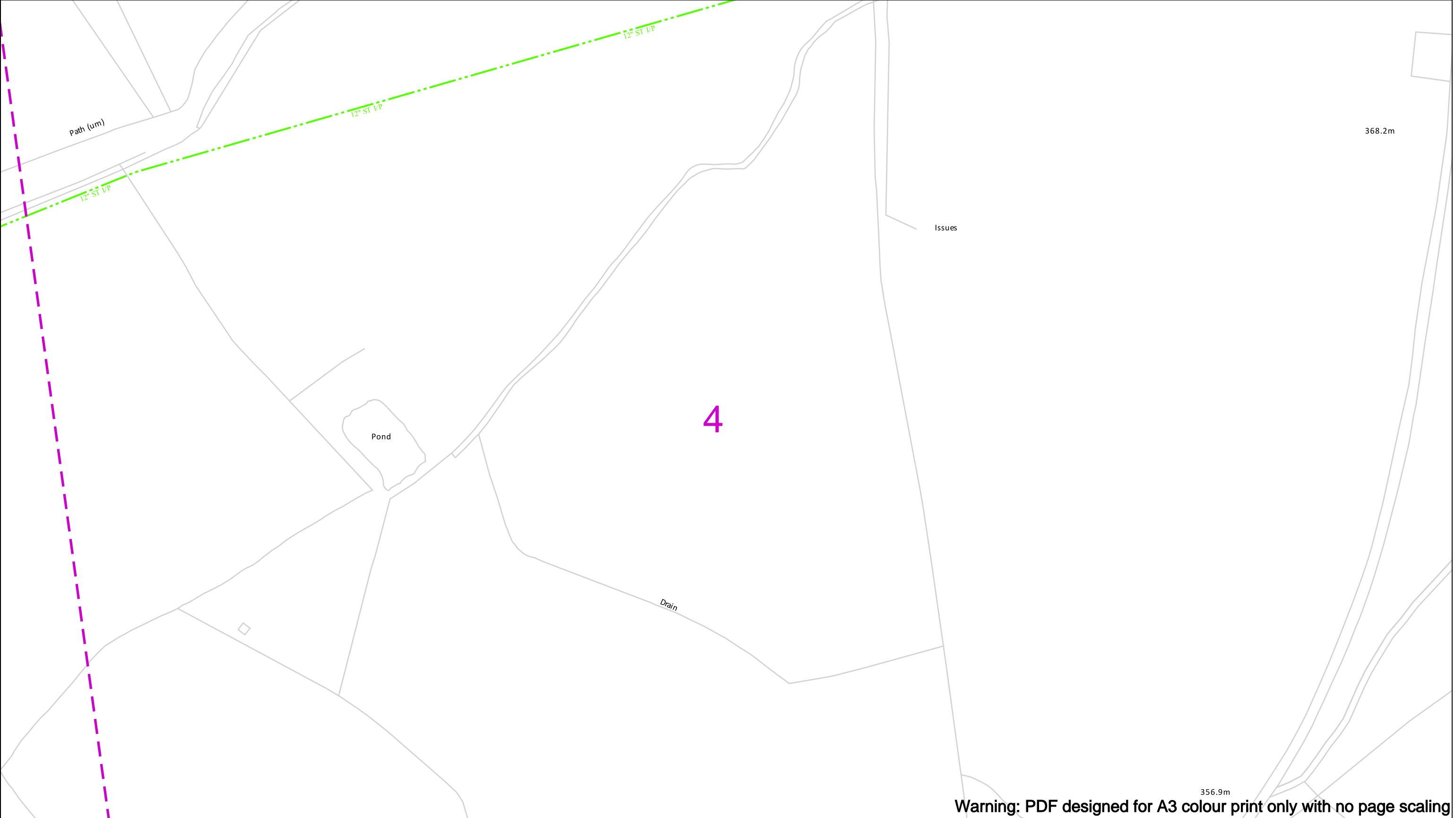
<p>Contact Us Mapping Enquiries: 02920 278 912 General Enquiries: 0800 912 2999</p> <p>Date Requested: 26/07/2021 Job Reference: 22790264 Site Location: 323219 196782</p> <p>Requested by: Mr Duncan Phillips Your Scheme/Reference: MynyddMaen g02</p> <p>Scale: 1:1250 (When plotted at A3)</p>	<div><div>EXTREME CAUTION. Major Accident Hazard Pipeline in Vicinity</div><div>**RISK OF DEATH OR SERIOUS INJURY**</div><div>Prior to excavation starting you must contact the plant protection team on 02920 278912</div></div> <div>IMPORTANT NOTICES</div> <ul style="list-style-type: none">This information is given as a guide only and its accuracy cannot be guaranteedThe plan only shows those pipes owned by Wales & West Utilities (WWU) as its role as a licensed Gas TransporterService pipes, valves, syphons, stub connections etc. may not be shown but their presence should be anticipatedYou must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains, services and other apparatus before any mechanical excavation is usedIt is your responsibility to ensure this information is provided to all persons working near our plantIf in doubt call the WWU dig team on 02920 278912	<div>In case of an emergency call 0800 111 999</div> <div><div><div>Dig Sites</div><div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div>Area:</div><div><div></div></div><div>Line: <div></div></div></div><div><div>Low Pressure (LP) 21mbar – 75mbar</div><div>Medium Pressure (MP) 350mbar – 2bar</div><div>Intermediate Pressure (IP) 2bar – 7bar</div><div>High Pressure (HP) >7bar</div></div></div><div><div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div>Line/Fire Valve</div><div>Governor Station</div><div>Change of Diameter</div><div>End Cap</div><div>Depth of cover</div></div></div></div>	<div><div><div></div></div><div>WALES&WEST UTILITIES</div></div> <div><div>Dial before you dig</div><div>We need 10 days' notice</div></div> <div><div>Smell gas? Call the Gas Emergency Service on 0800 111 999.</div><div><div>Dial before you start work. Call 029 2027 8912</div><div><div>Investigate Before you dig, make sure you know what's below.</div></div><div><div>Go ahead Done your research? Now you can dig safely.</div></div></div></div>
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Dig Sites

Low Pressure (LP) 21mbar – 75mbar

Medium Pressure (MP) 350mbar – 2bar

Intermediate Pressure (IP) 2bar – 7bar

High Pressure (HP) >7bar

Area: Line:

Line/Fire Valve

Governor Station

Change of Diameter

End Cap

Depth of cover

WALES&WEST
UTILITIES

Smell gas?
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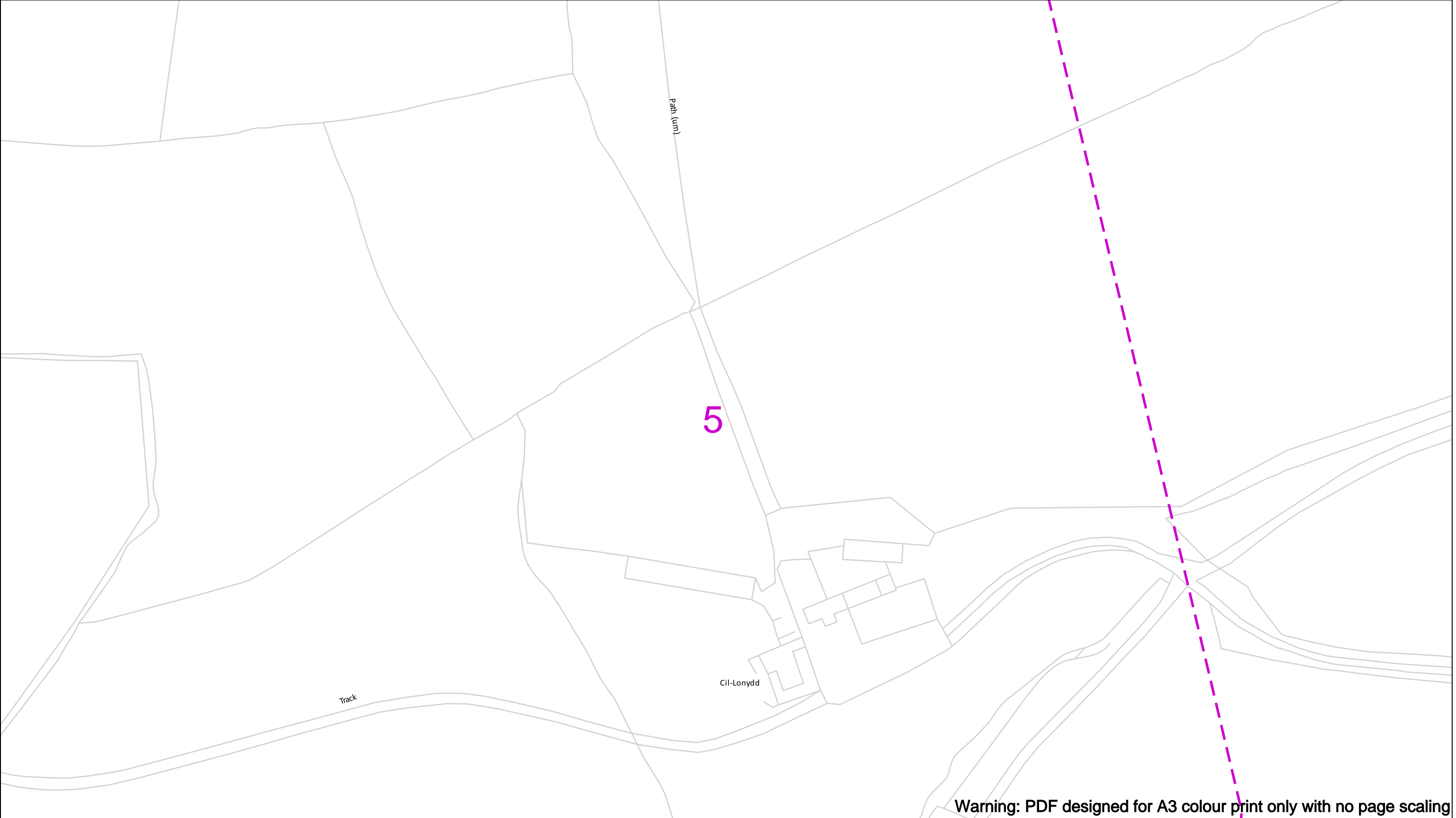
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	Change of Diameter
	End Cap
	Depth of cover

WALES&WEST
UTILITIES

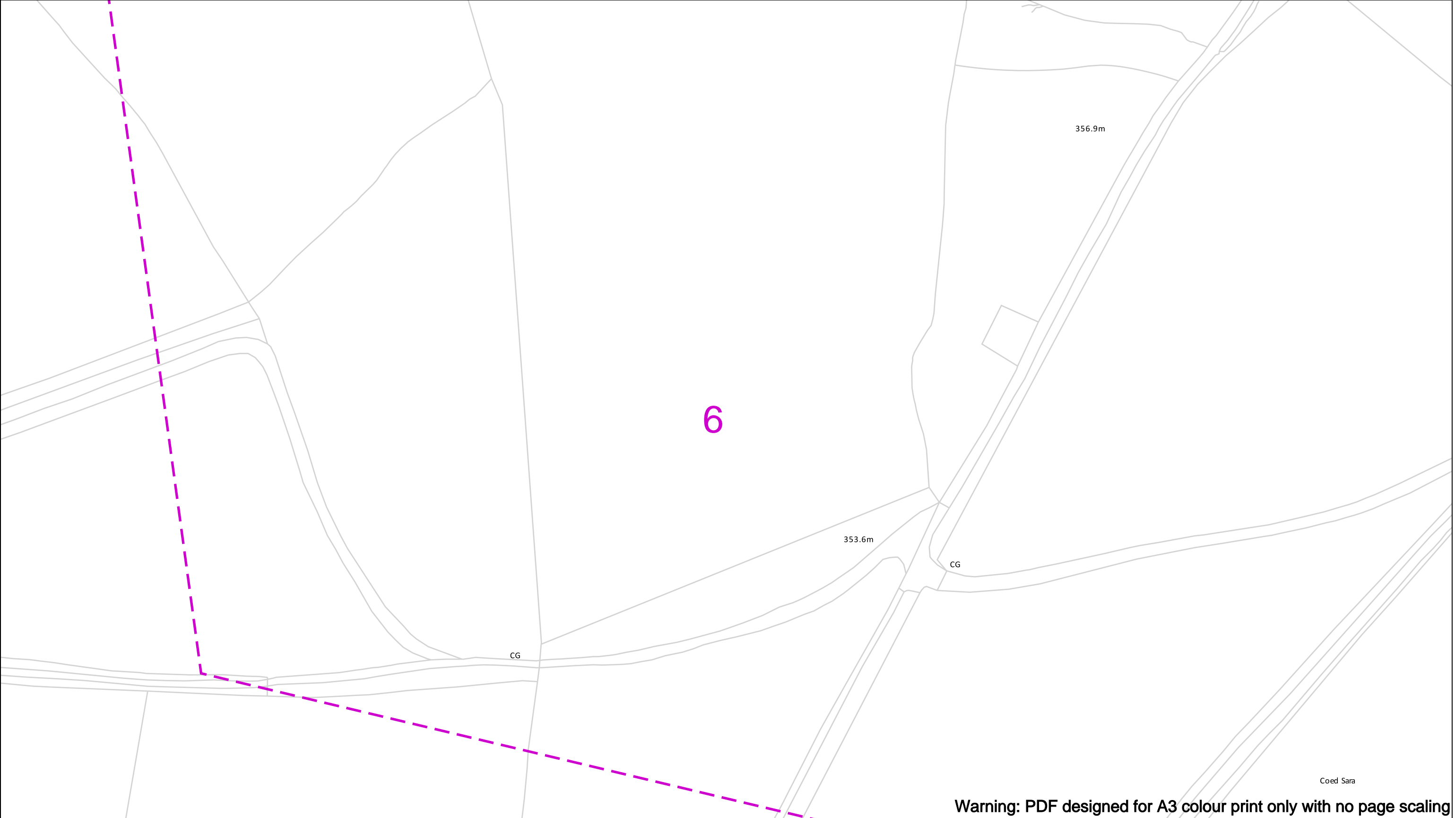
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	Change of Diameter
	End Cap
	Depth of cover

WALES&WEST
UTILITIES

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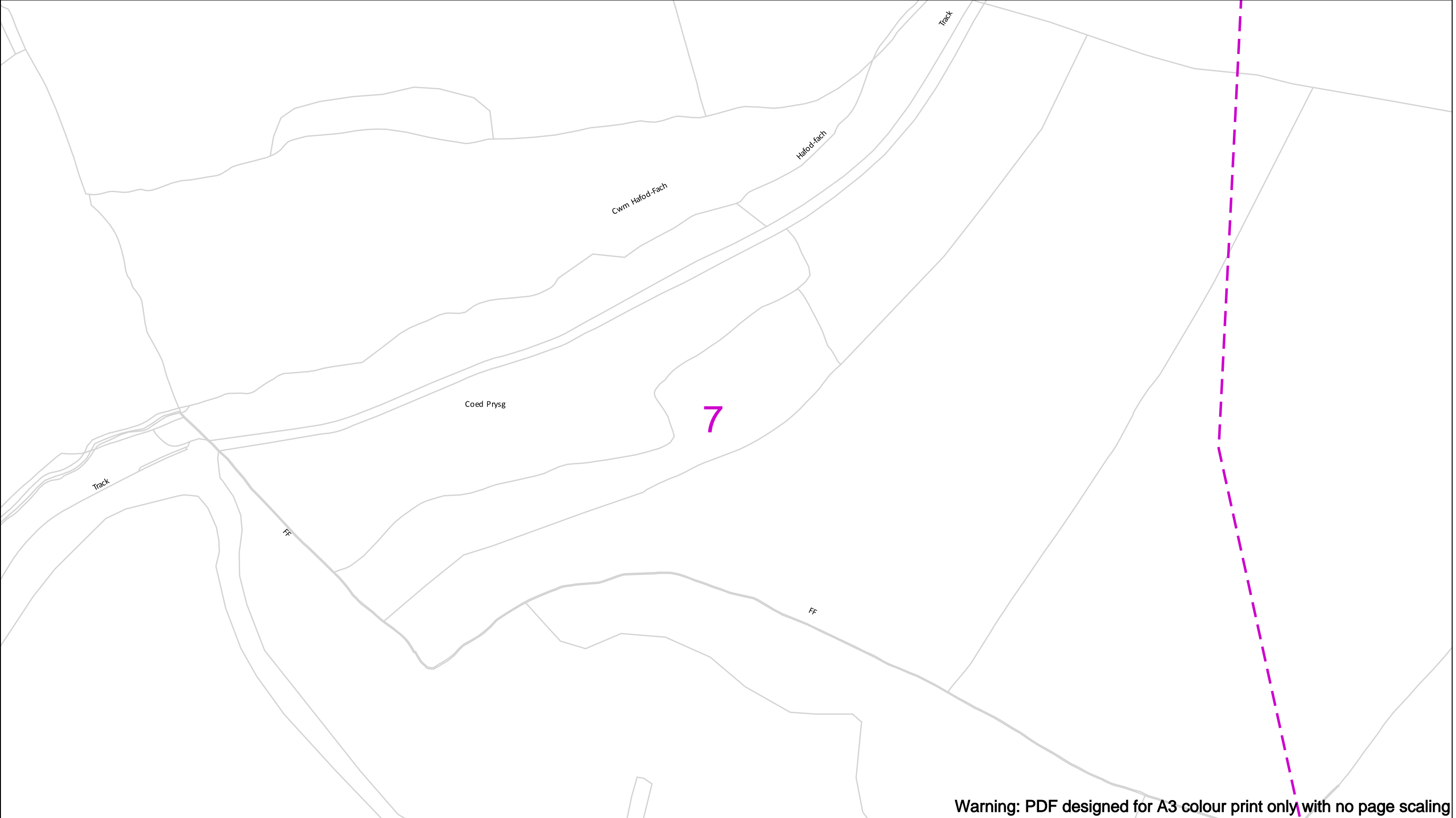
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Line/Fire Valve

Governor Station

Change of Diameter

End Cap

Depth of cover

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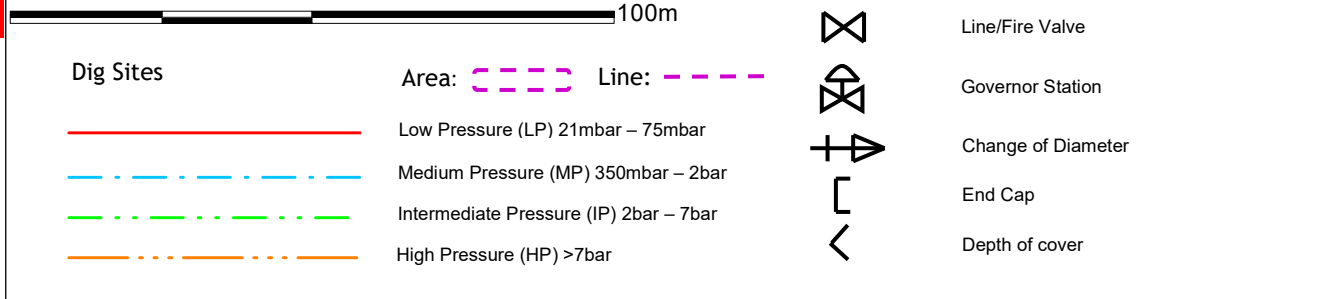
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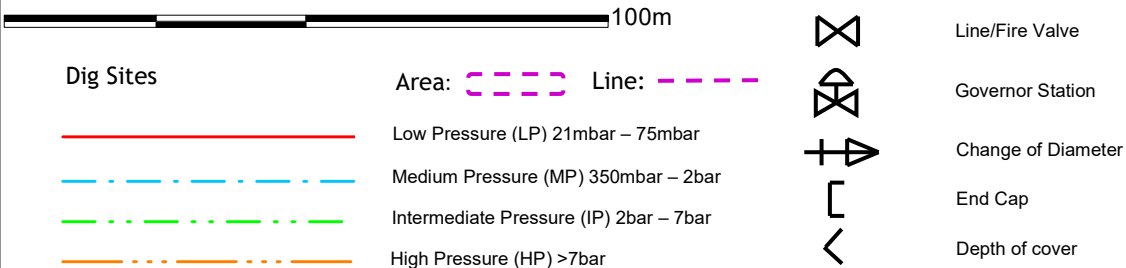
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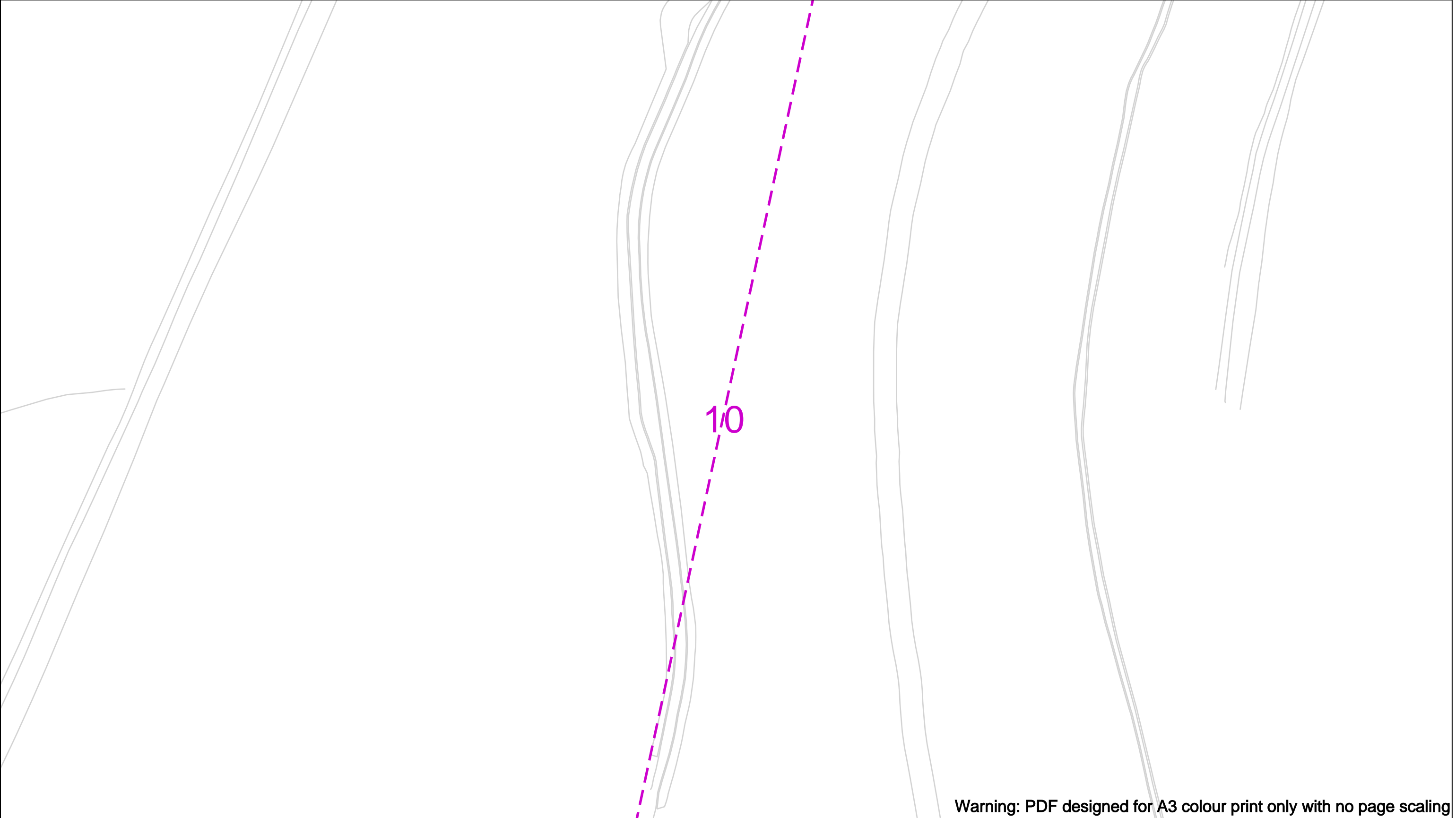
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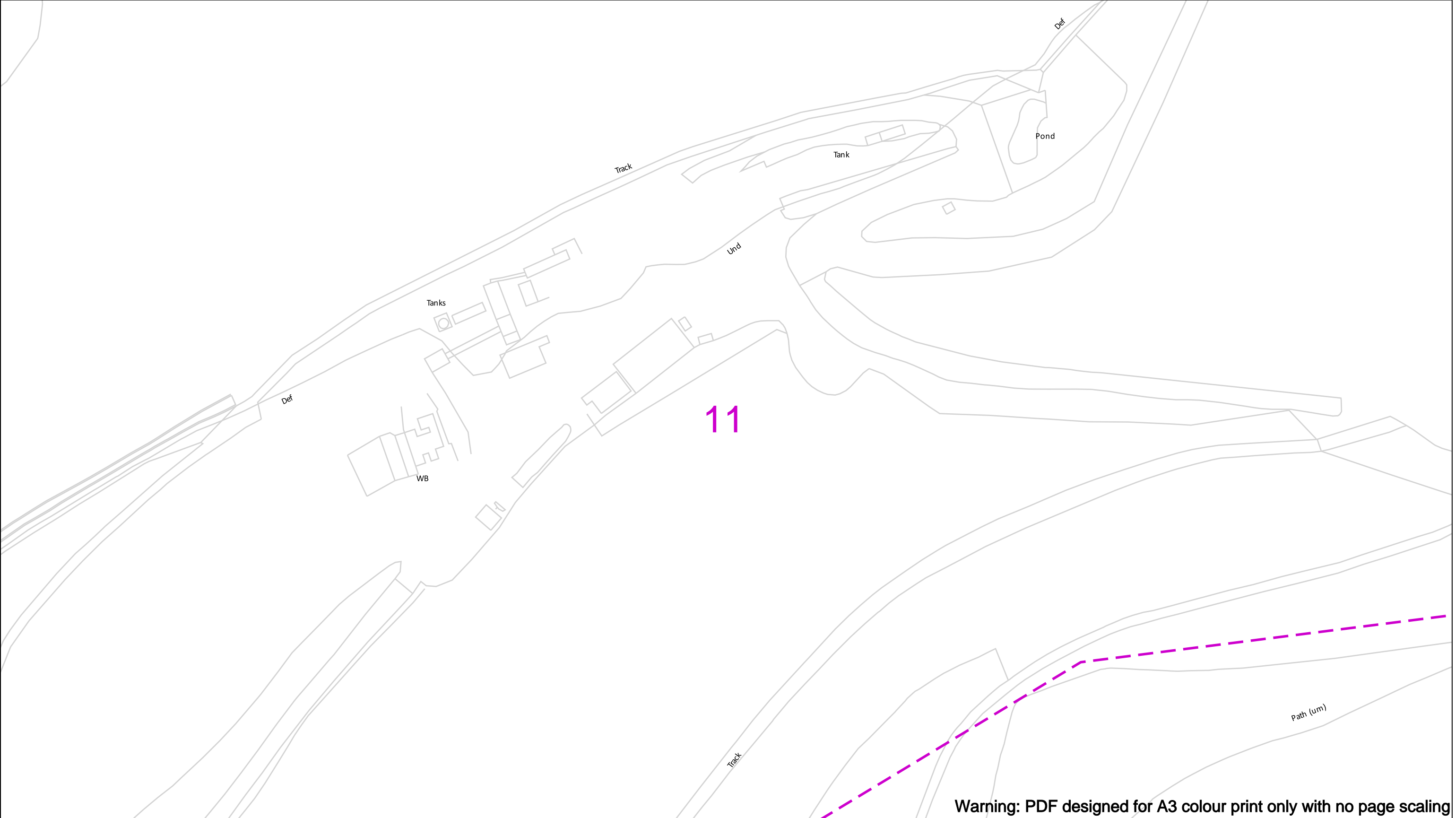
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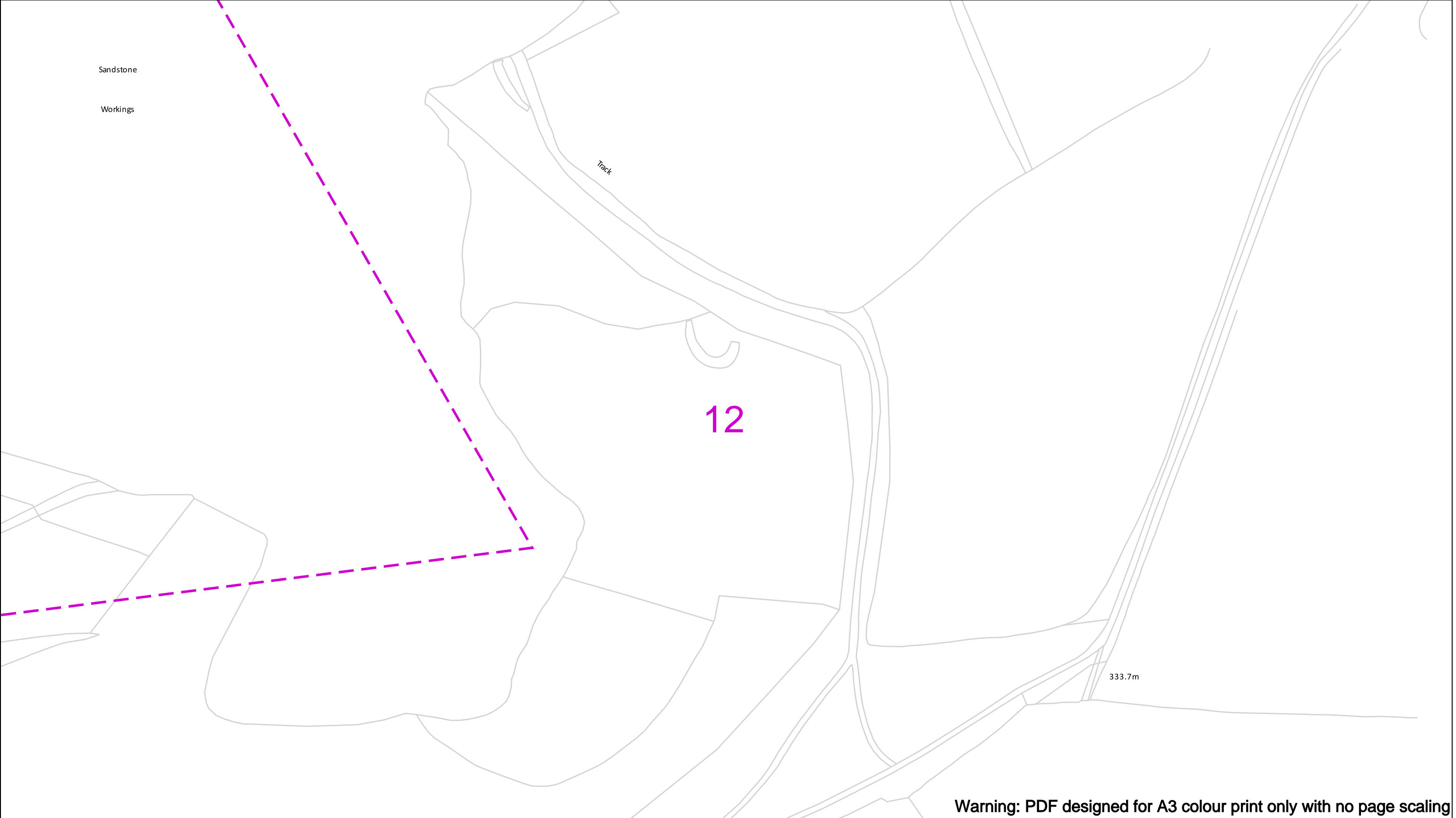
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	Line/Fire Valve
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	Change of Diameter
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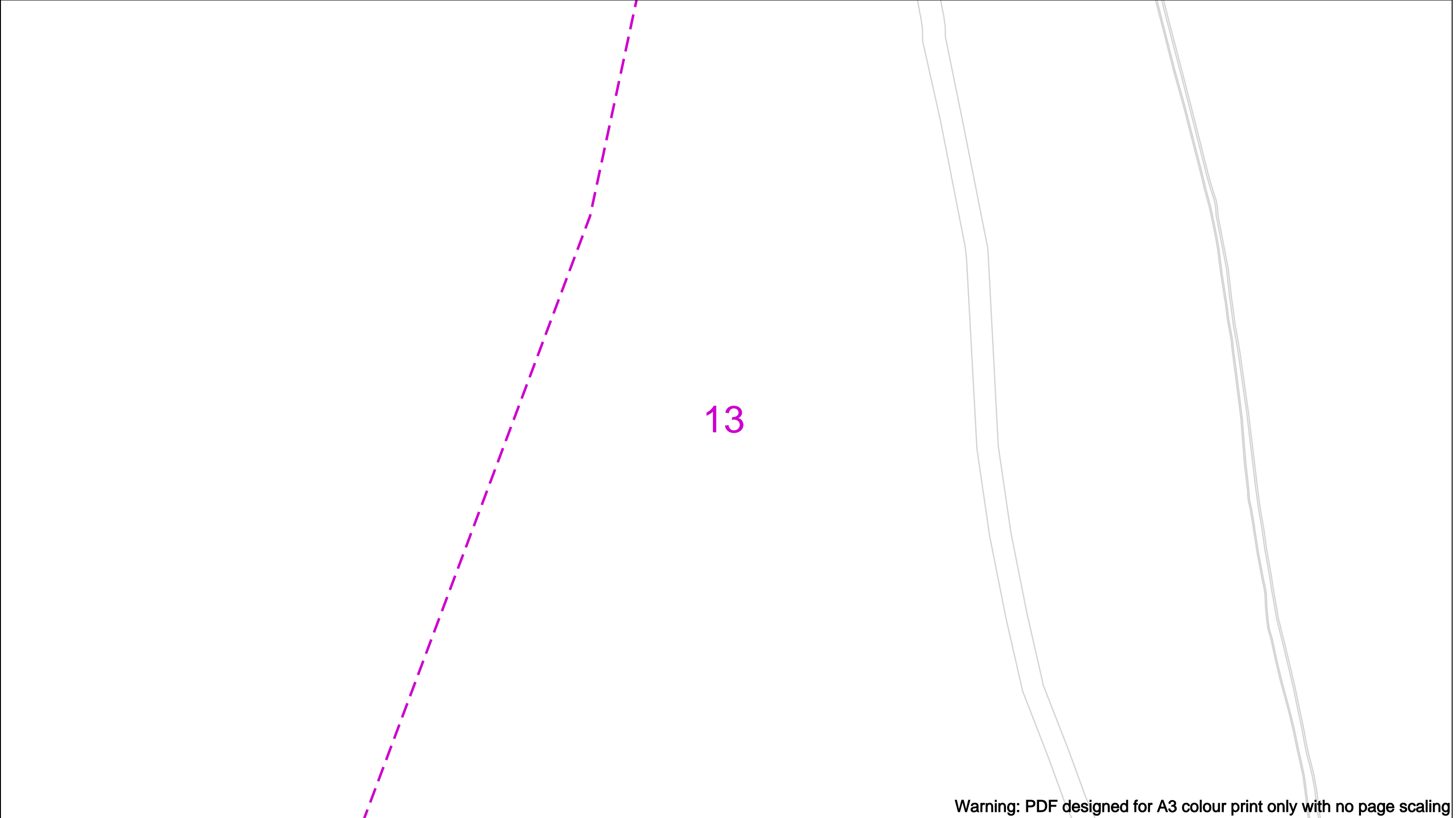
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Change of Diameter

End Cap

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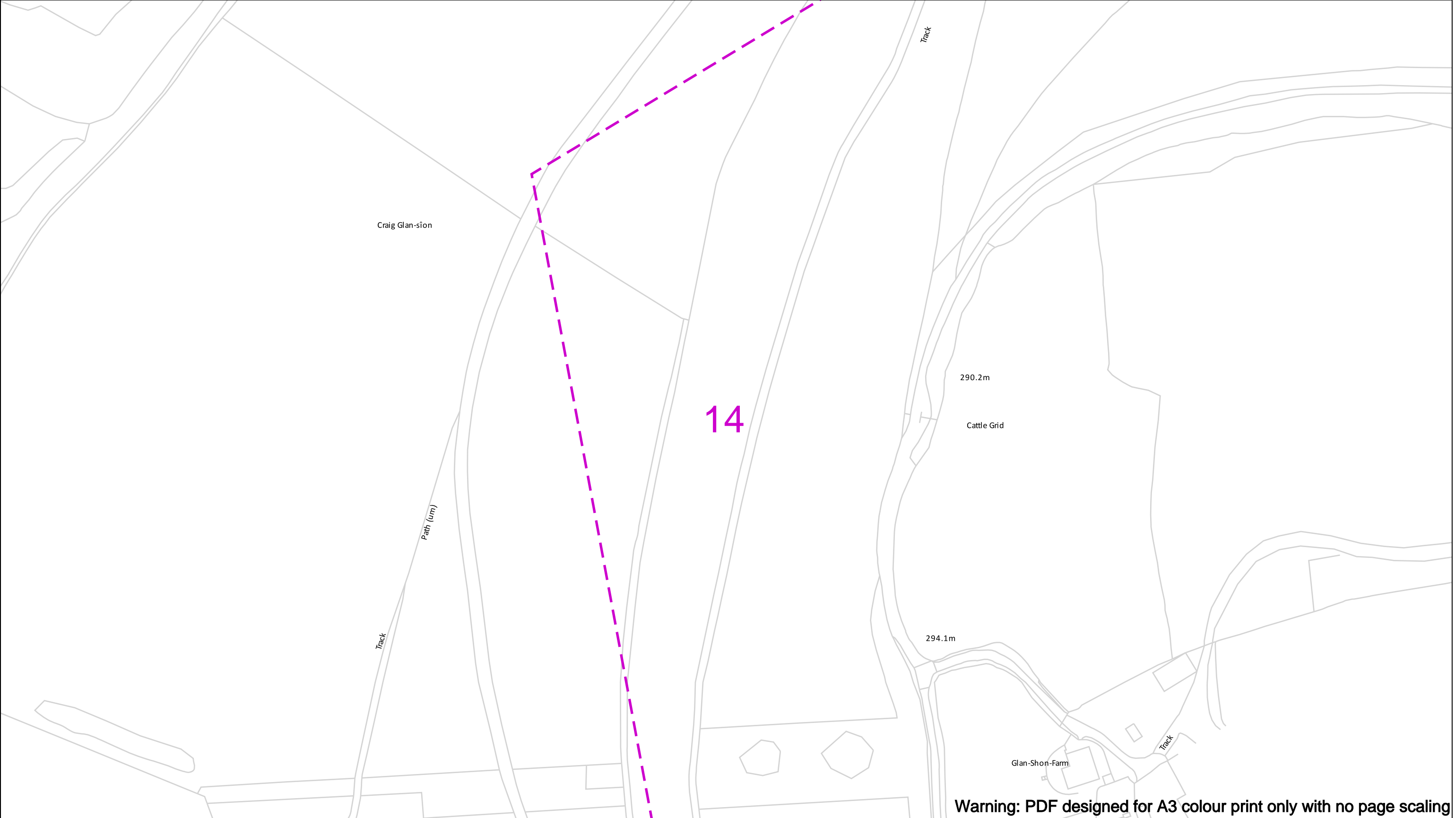
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WALES & WEST UTILITIES

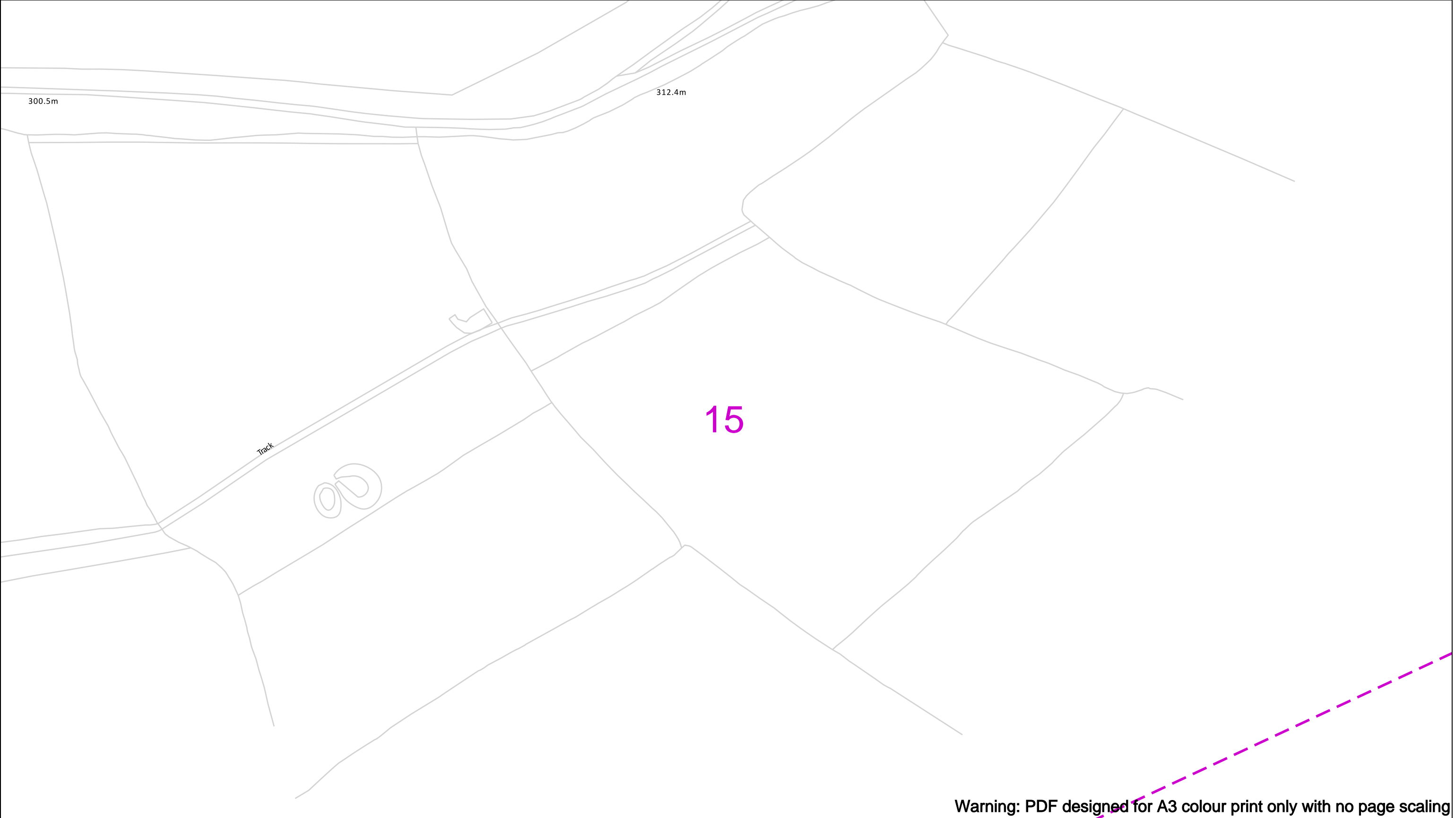
Smell gas?
Call the Gas Emergency Service on 0800 111 999.

Dial before you dig
Call 029 2027 8912 before you start work.

Investigate
Before you dig, make sure you know what's below.

Go ahead
Done your research? Now you can dig safely.

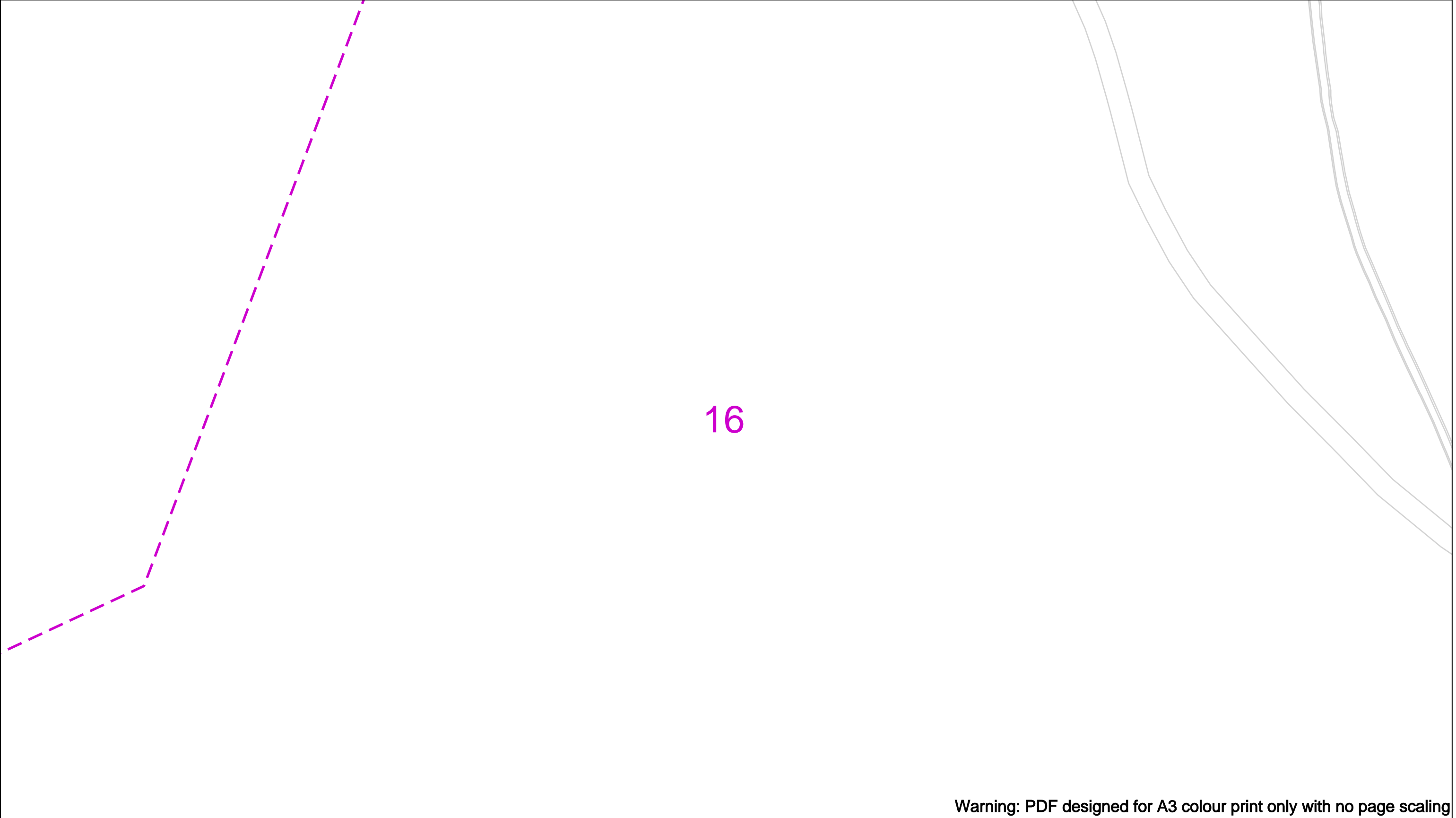
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<p>Contact Us Mapping Enquiries: 02920 278 912 General Enquiries: 0800 912 2999</p> <p>Date Requested: 26/07/2021 Job Reference: 22790264 Site Location: 323219 196782</p> <p>Requested by: Mr Duncan Phillips Your Scheme/Reference: MynyddMaen g02</p> <p>Scale: 1:1250 (When plotted at A3)</p>	<div><div>EXTREME CAUTION. Major Accident Hazard Pipeline in Vicinity **RISK OF DEATH OR SERIOUS INJURY** Prior to excavation starting you must contact the plant protection team on 02920 278912</div><div>IMPORTANT NOTICES</div><ul style="list-style-type: none">This information is given as a guide only and its accuracy cannot be guaranteedThe plan only shows those pipes owned by Wales & West Utilities (WWU) as its role as a licensed Gas TransporterService pipes, valves, syphons, stub connections etc. may not be shown but their presence should be anticipatedYou must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains, services and other apparatus before any mechanical excavation is usedIt is your responsibility to ensure this information is provided to all persons working near our plantIf in doubt call the WWU dig team on 02920 278912</div>	<div>In case of an emergency call 0800 111 999</div> <div><div><div>Dig Sites</div><div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div>Area:</div><div>Line:</div><div>Low Pressure (LP) 21mbar – 75mbar</div><div>Medium Pressure (MP) 350mbar – 2bar</div><div>Intermediate Pressure (IP) 2bar – 7bar</div><div>High Pressure (HP) >7bar</div></div></div><div><div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div>Line/Fire Valve</div><div>Governor Station</div><div>Change of Diameter</div><div>End Cap</div><div>Depth of cover</div></div></div></div>	<div><div><div><div></div></div><div>WALES&WEST UTILITIES</div></div><div><div><div>Dial before you dig</div><div>We need 10 days* notice</div></div><div><div><div>Smell gas? Call the Gas Emergency Service on 0800 111 999.</div><div><div>Dial before you start work. Call 029 2027 8912</div><div><div>Investigate Before you dig, make sure you know what's below.</div><div><div>Go ahead Done your research? Now you can dig safely.</div></div></div></div></div></div></div></div>
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


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100m


Dig Sites	Area: 	Line: 
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	Line/Fire Valve
	Governor Station
	Change of Diameter
	End Cap
	Depth of cover


 **WALES&WEST**
UTILITIES


 **Dial before you dig**

We need 10 days' notice

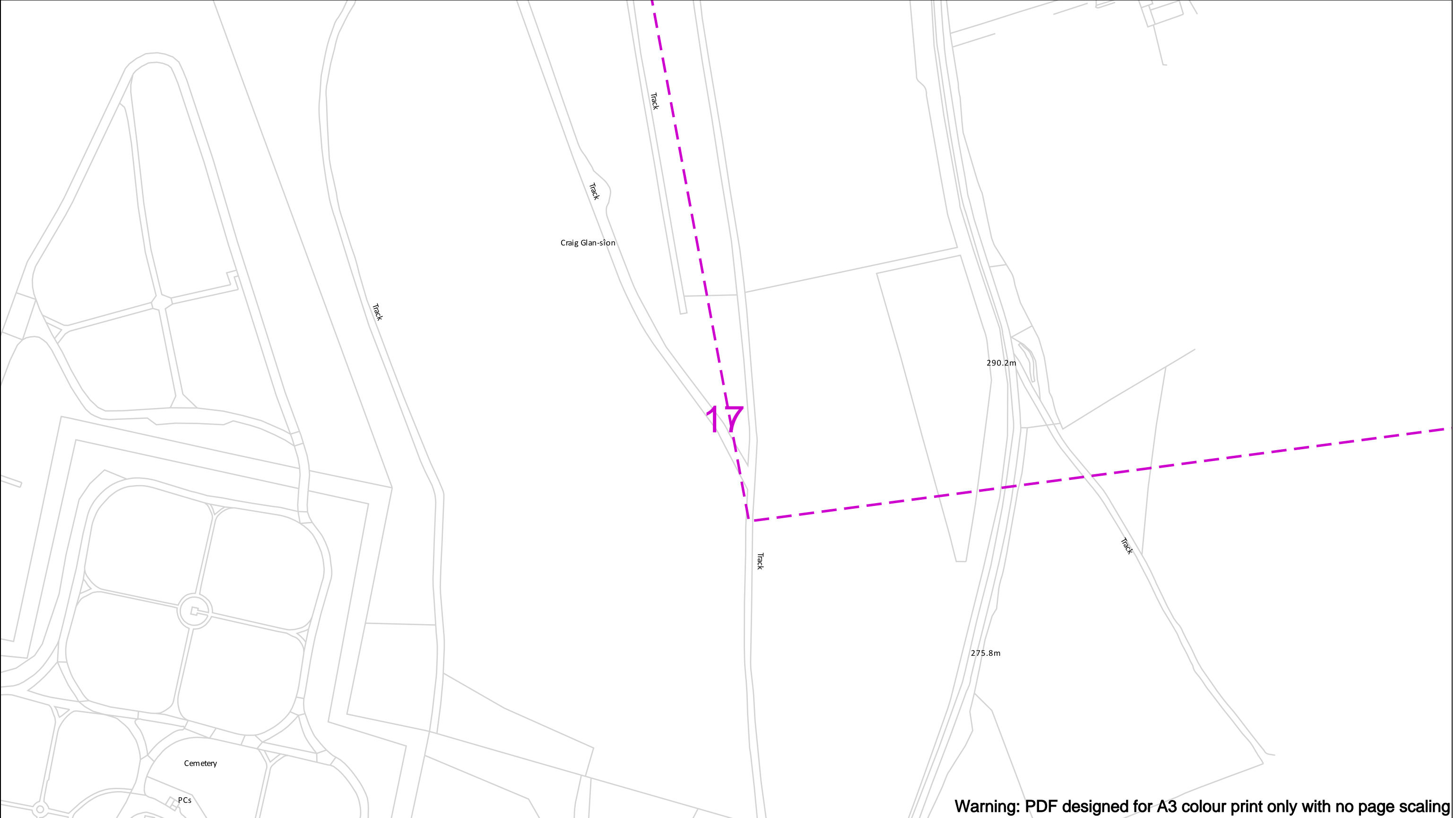
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Governor Station

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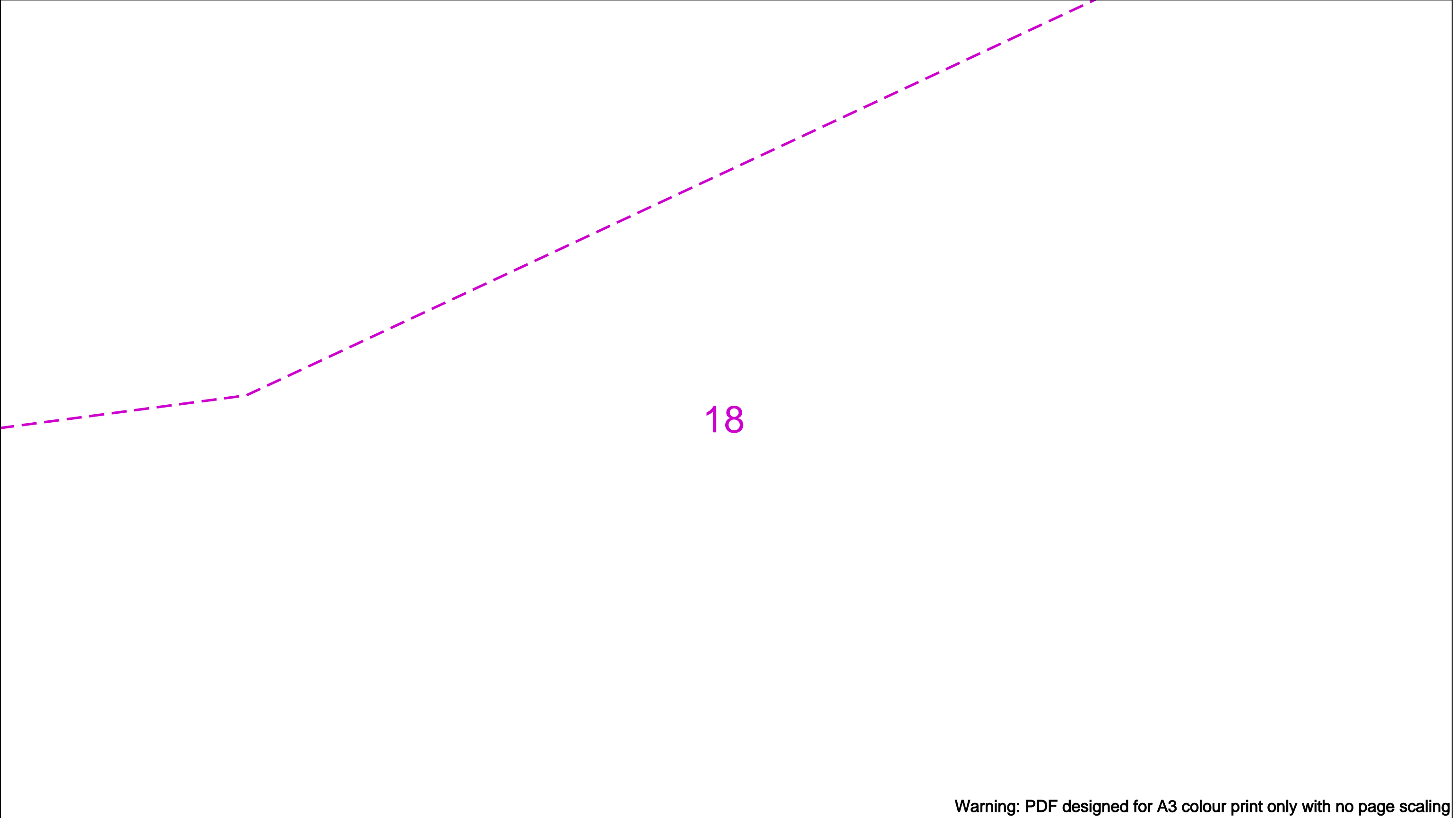
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**Company Address**

Wales and West Utilities Ltd,
Wales and West House,
Spooner Close, Celtic,
Springs, Coedkernew,
Newport, NP10 8FZ

Our Ref: 22790287 MynyddMaen g03

Monday, 26 July 2021

Duncan Phillips
91 Market Street
Hoylake
Merseyside
CH47 5AA

Dear Duncan Phillips

Thank you for contacting us regarding Wales & West Utilities equipment at the above site.

According to our mains records Wales & West Utilities has no apparatus in the area of your enquiry. However Gas pipes owned by other GT's and also privately owned may be present in this area. Information with regard to such pipes should be obtained from the owners.

Safe digging practices, in accordance with HS(G)47, Avoiding Danger from underground services must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. Safe working procedures should be defined and practiced.

If you require advice in connection with your proposals please contact the relevant number below.

Yours sincerely,
WWU Dig Team

Gas Emergency Number:

In an emergency call 0800 111 999, 24 hours a day.

Mapping Enquiries:

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 02920 278912
Email dig@wwutilities.co.uk

General Enquiries:

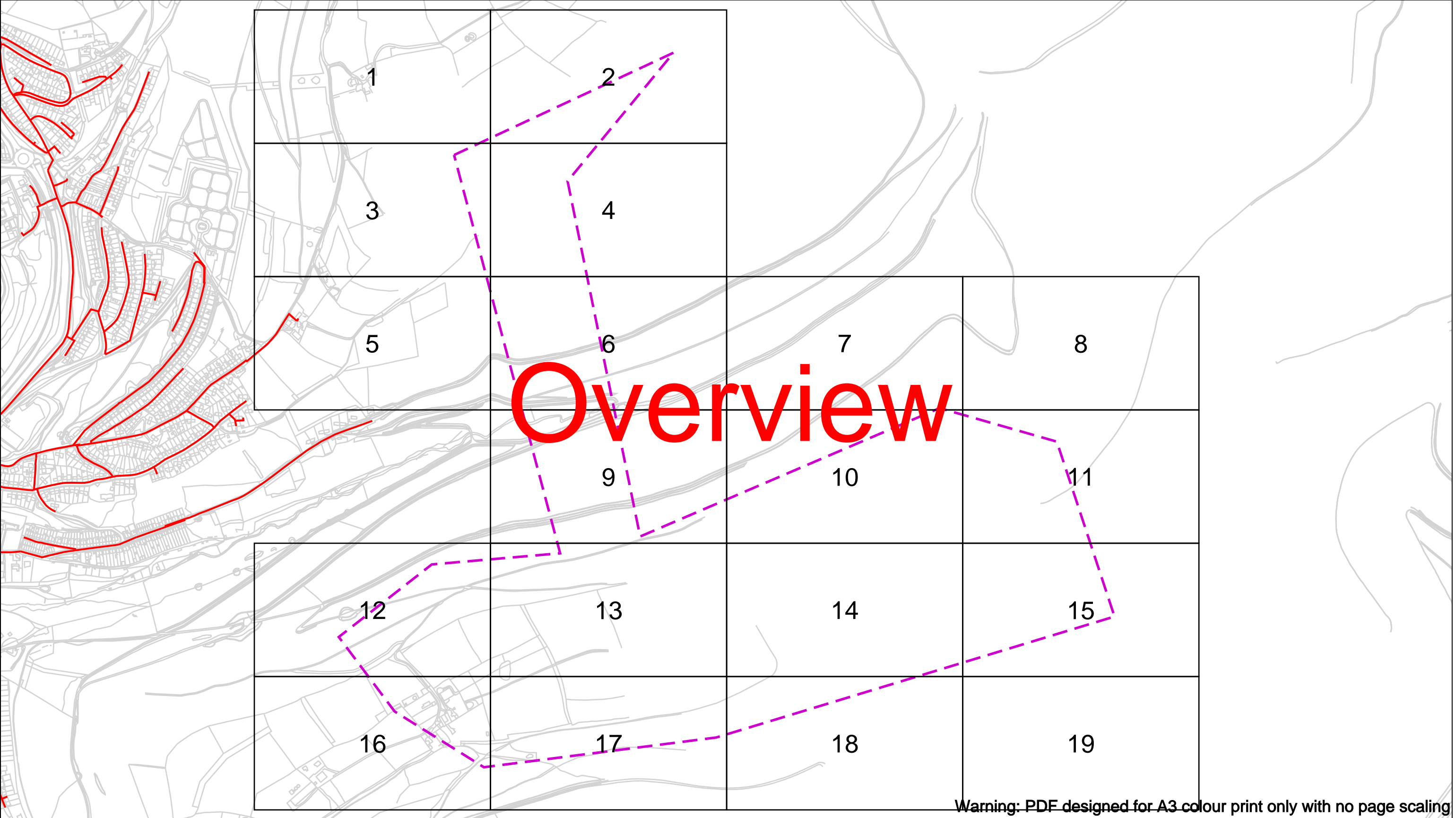
If you have a general enquiry, please call us on the following number

All areas 0800 912 29 99

LinesearchbeforeUdig:

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

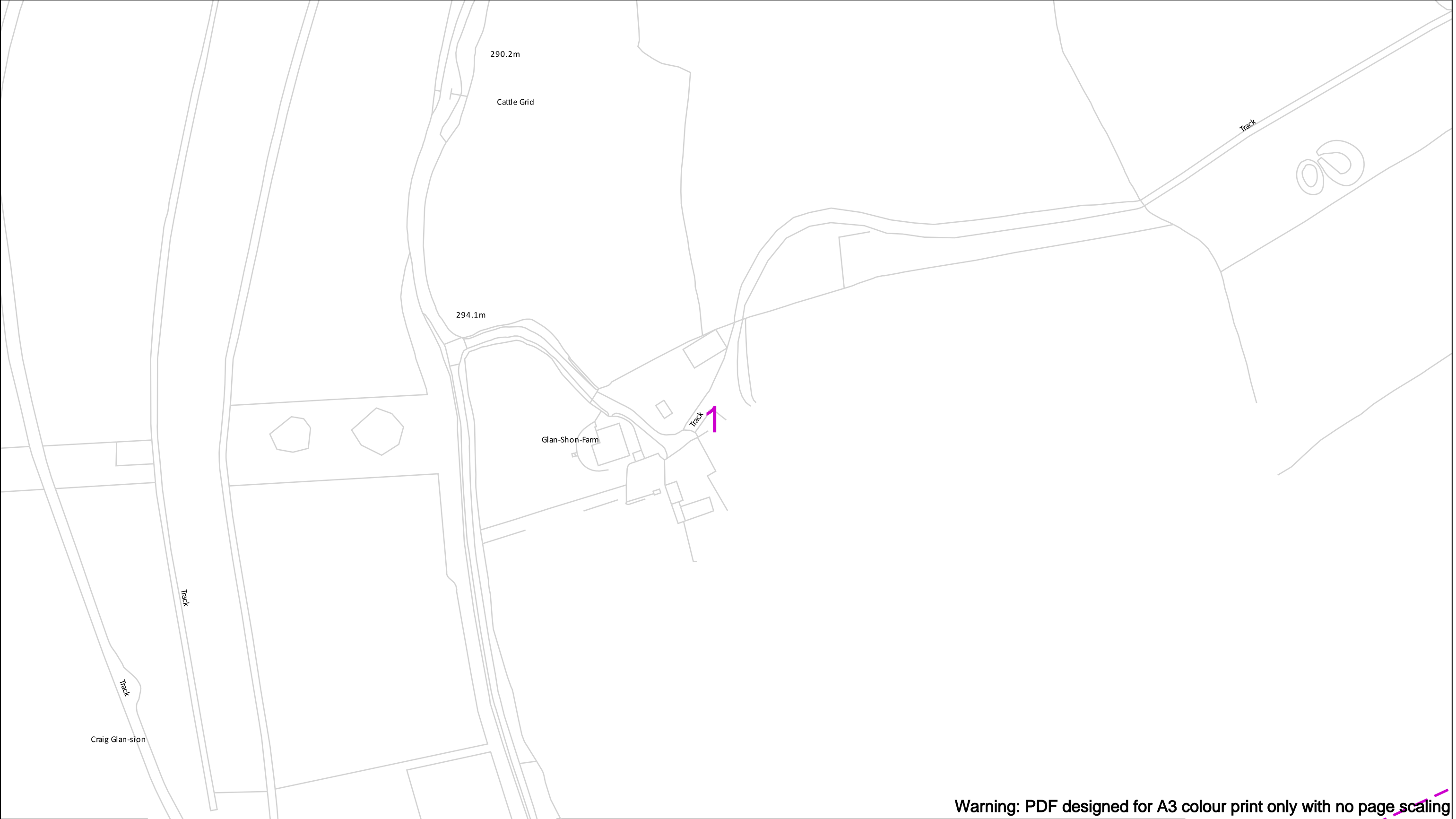
Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk



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<p>Contact Us Mapping Enquiries: 02920 278 912 General Enquiries: 0800 912 2999</p> <p>Date Requested: 26/07/2021 Job Reference: 22790287 Site Location: 323751 195235</p> <p>Requested by: Mr Duncan Phillips Your Scheme/Reference: MynyddMaen g03</p> <p>Scale: 1:7688 (When plotted at A3)</p>	<p>IMPORTANT NOTICES</p> <ul style="list-style-type: none">• This information is given as a guide only and its accuracy cannot be guaranteed• The plan only shows those pipes owned by Wales & West Utilities (WWU) as its role as a licensed Gas Transporter• Service pipes, valves, syphons, stub connections etc. may not be shown but their presence should be anticipated• You must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains, services and other apparatus before any mechanical excavation is used• It is your responsibility to ensure this information is provided to all persons working near our plant• If in doubt call the WWU dig team on 02920 278912	<p>In case of an emergency call 0800 111 999</p> <table><tr><td><p>Dig Sites</p><ul style="list-style-type: none">— Low Pressure (LP) 21mbar – 75mbar- - - Medium Pressure (MP) 350mbar – 2bar- . - Intermediate Pressure (IP) 2bar – 7bar- . . High Pressure (HP) >7bar</td><td><p>Area: Line: </p><p> Line/Fire Valve</p><p> Governor Station</p><p> Change of Diameter</p><p> End Cap</p><p> Depth of cover</p></td></tr></table>	<p>Dig Sites</p> <ul style="list-style-type: none">— Low Pressure (LP) 21mbar – 75mbar- - - Medium Pressure (MP) 350mbar – 2bar- . - Intermediate Pressure (IP) 2bar – 7bar- . . High Pressure (HP) >7bar	<p>Area: Line: </p> <p> Line/Fire Valve</p> <p> Governor Station</p> <p> Change of Diameter</p> <p> End Cap</p> <p> Depth of cover</p>	<div><p>WALES & WEST UTILITIES</p></div> <div><p>Dial before you dig</p><p>We need 10 days' notice</p></div> <div><p>Smell gas? Call the Gas Emergency Service on 0800 111 999.</p><p> Dial Call 029 2027 8912 before you start work.</p><p> Investigate Before you dig, make sure you know what's below.</p><p> Go ahead Done your research? Now you can dig safely.</p></div>
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Requested by:
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Wales & West Utilities

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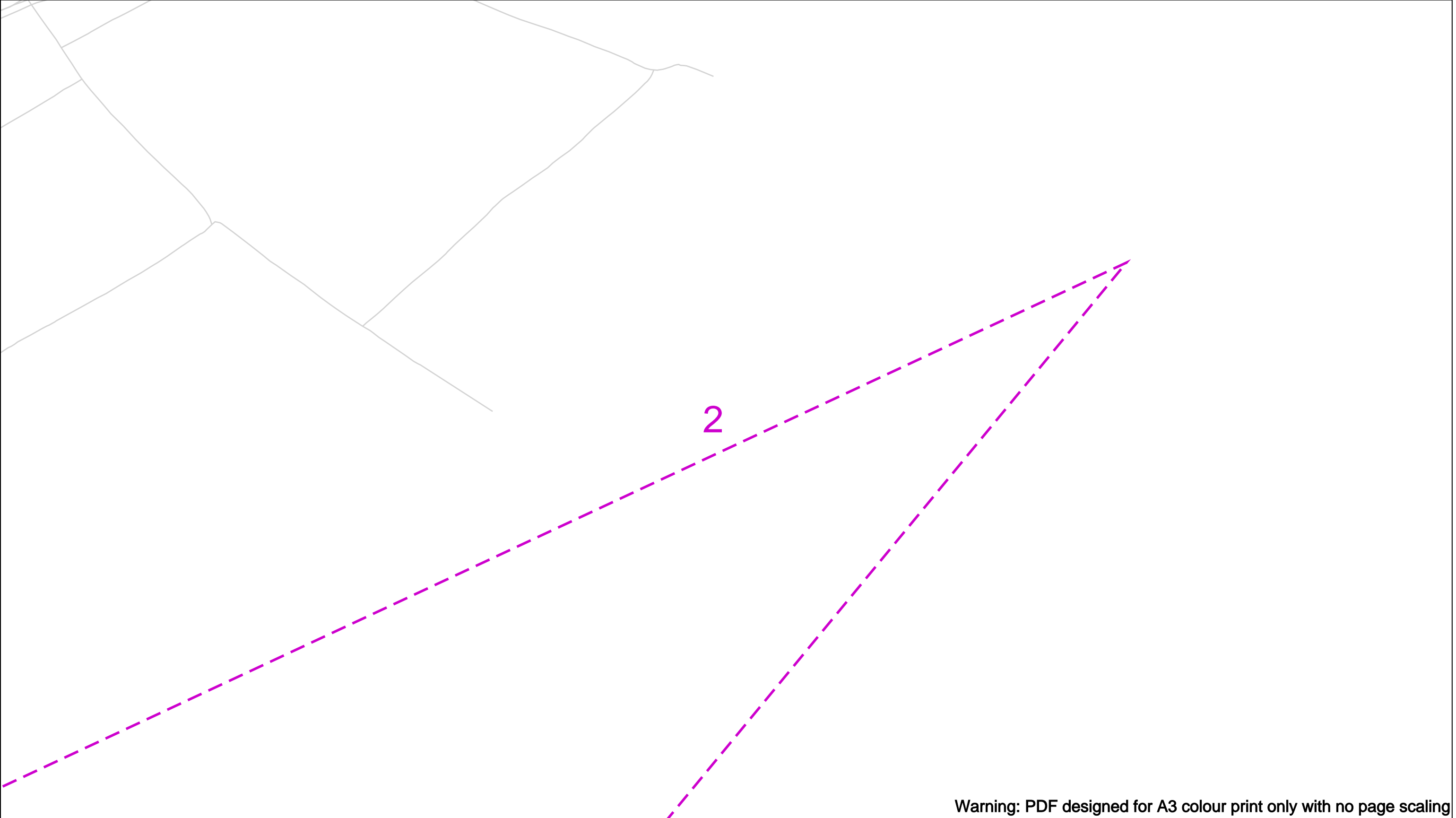
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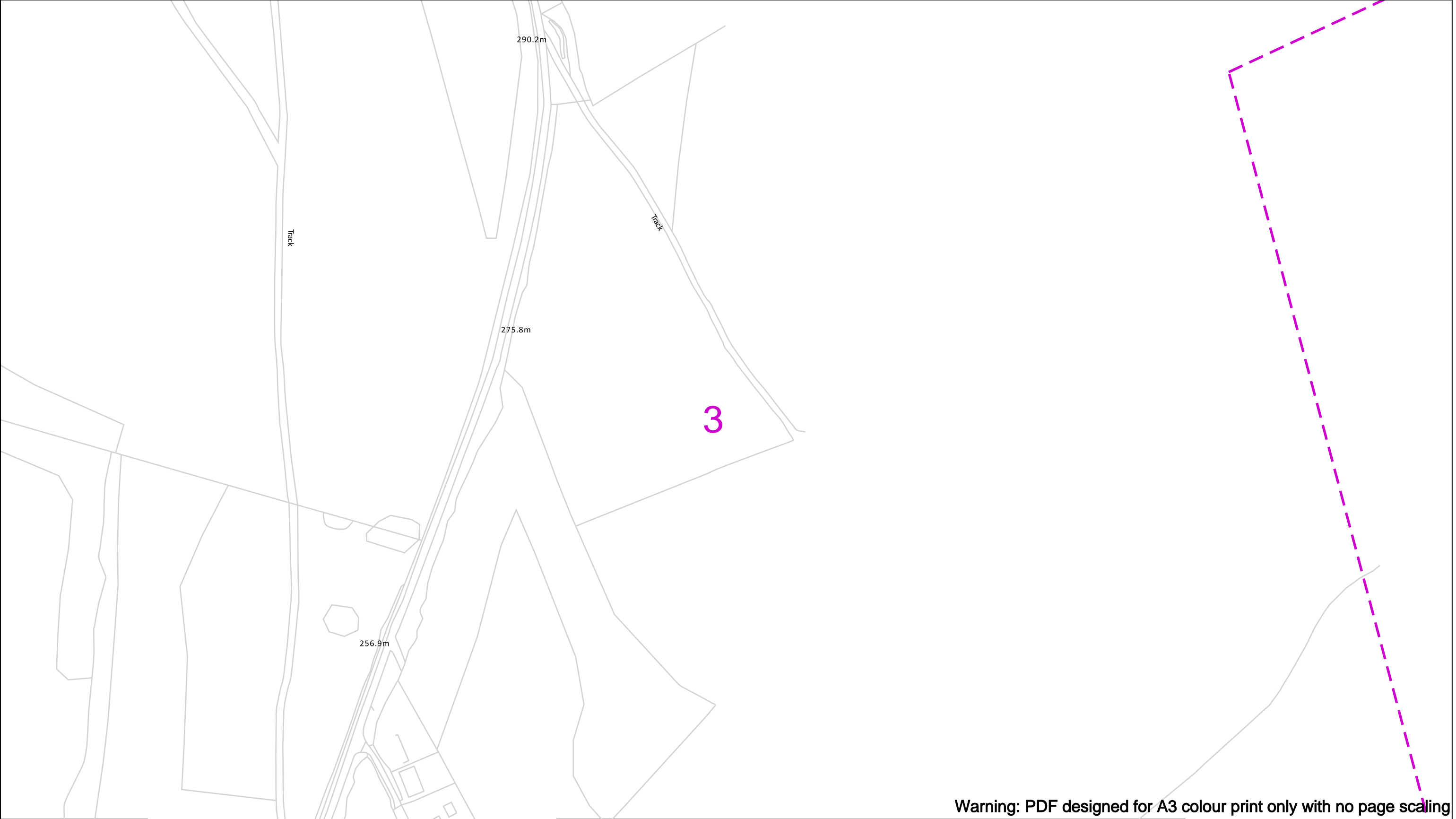
100m

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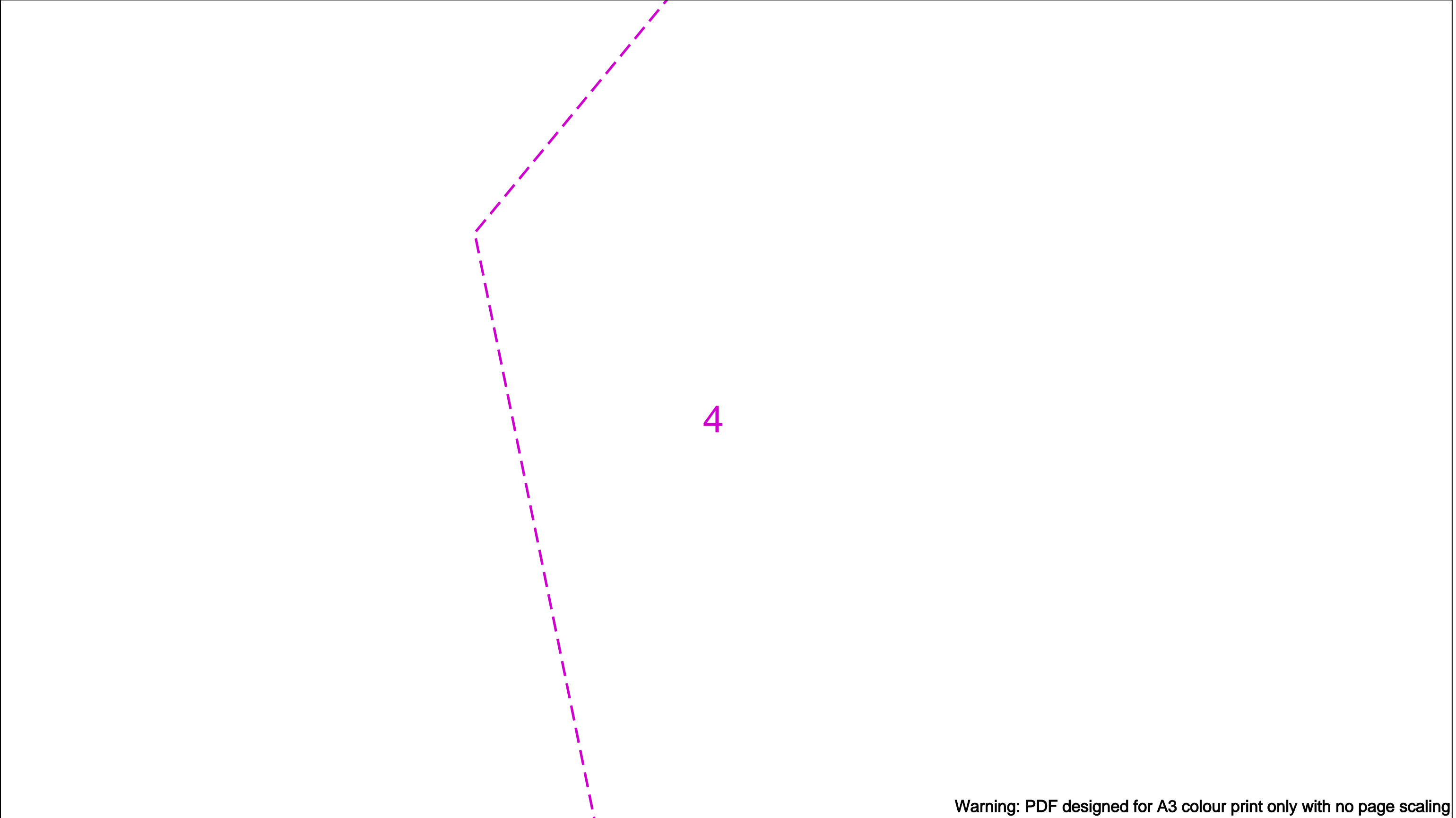
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Line/Fire Valve

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Change of Diameter

End Cap

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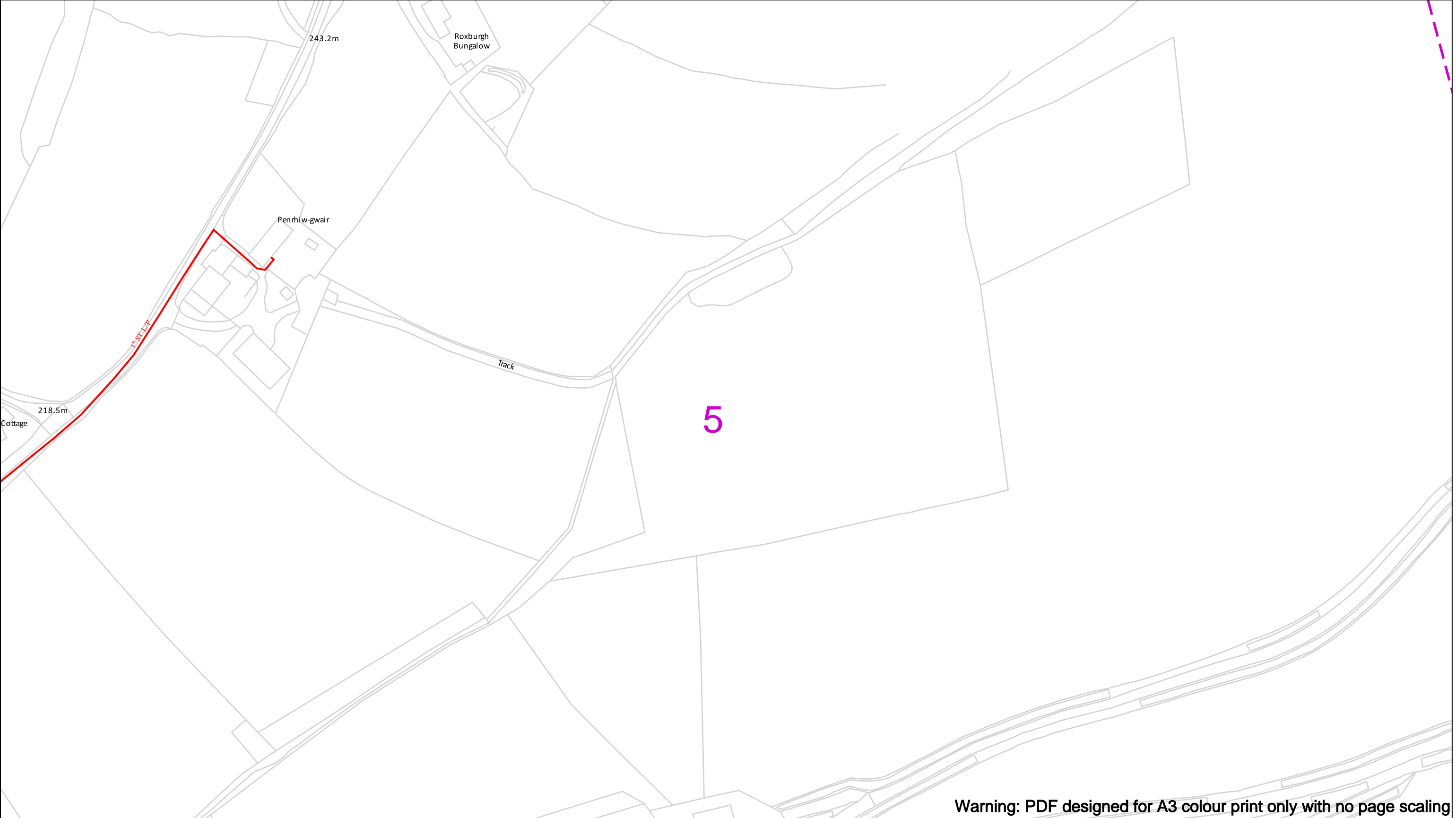
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Governor Station

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End Cap

Depth of cover

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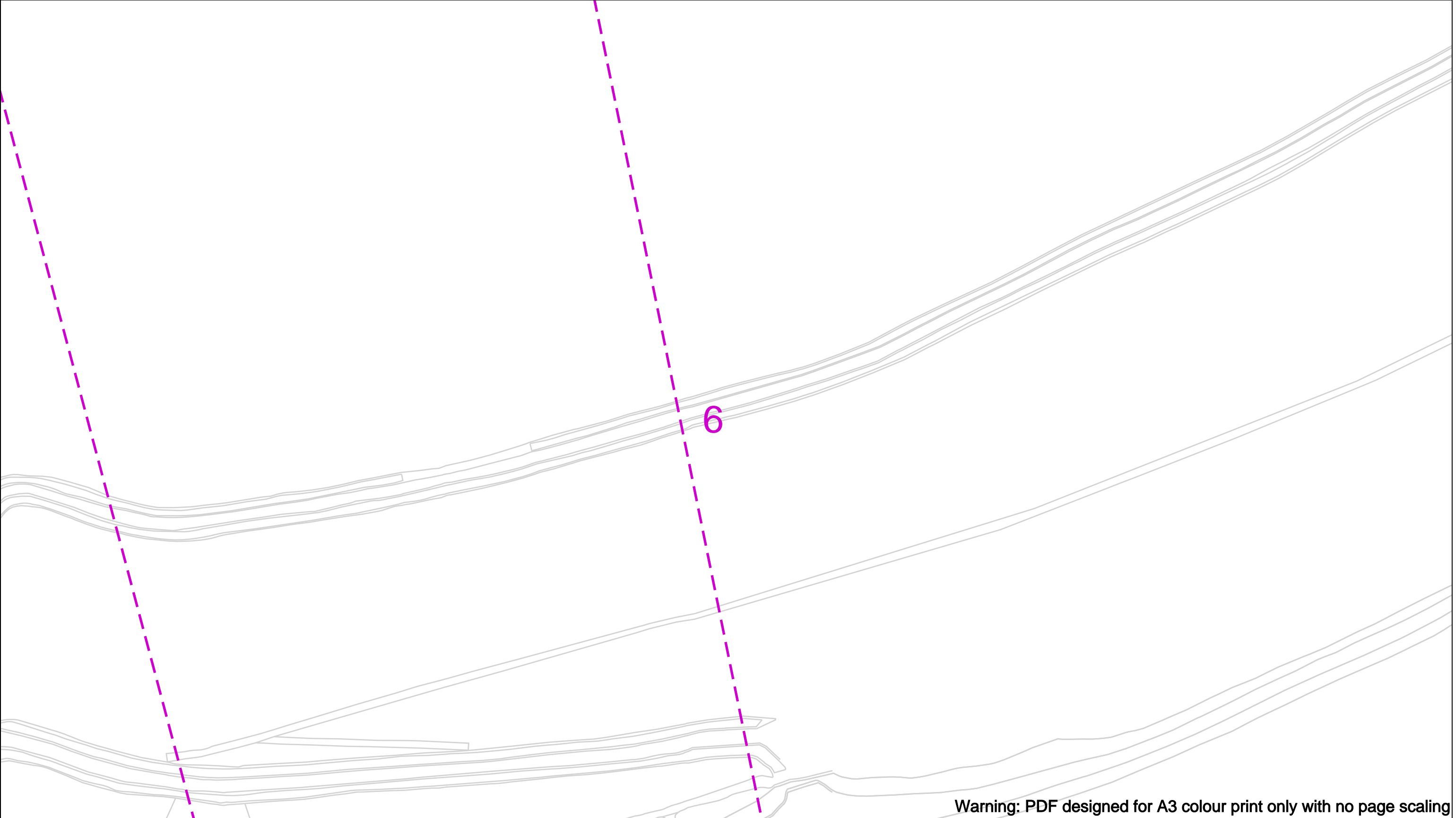
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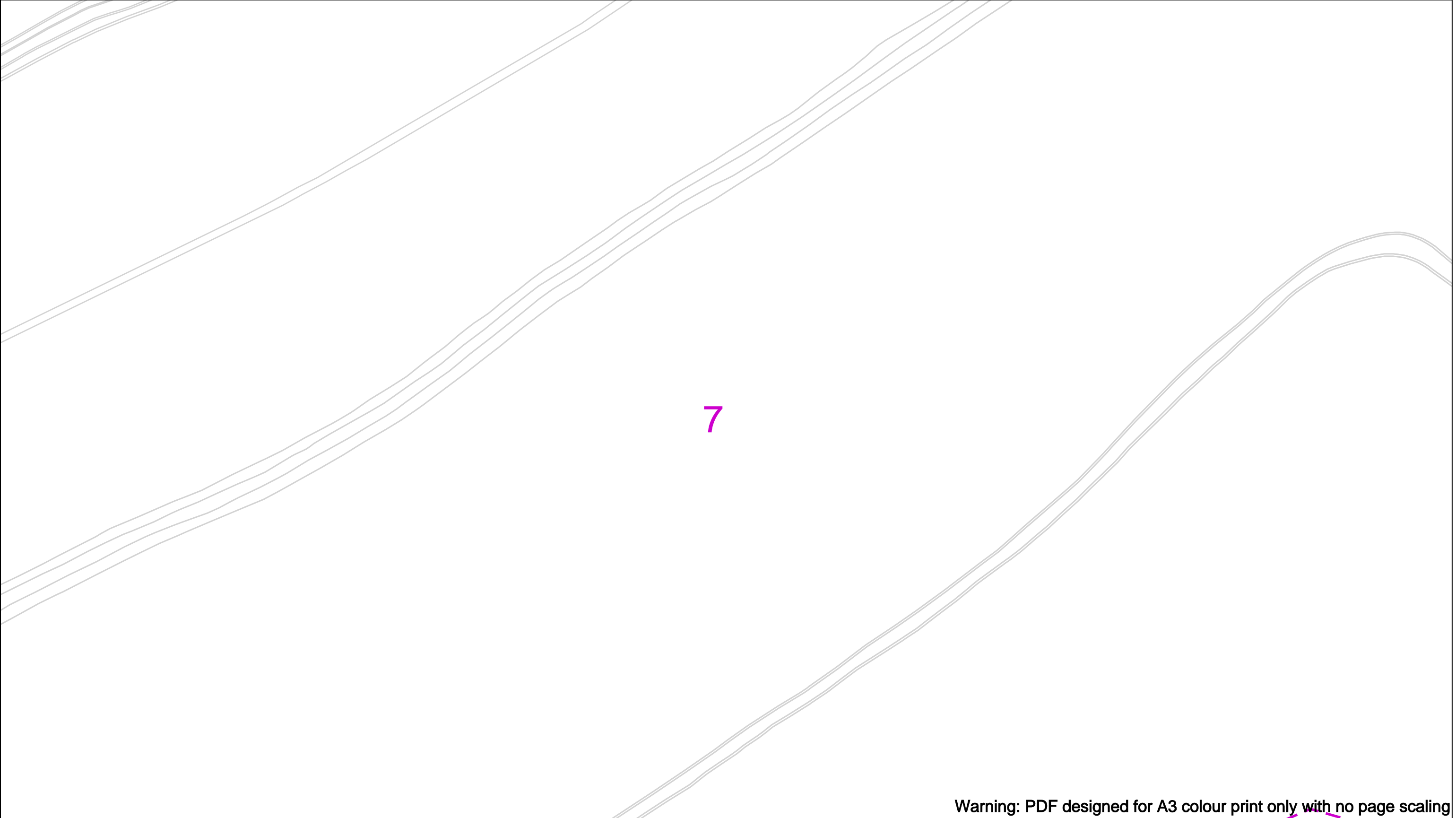
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<div>Contact Us Mapping Enquiries: 02920 278 912 General Enquiries: 0800 912 2999</div> <div>Date Requested: 26/07/2021 Job Reference: 22790287 Site Location: 323751 195235 Requested by: Mr Duncan Phillips Your Scheme/Reference: MynyddMaen g03</div> <div>Scale: 1:1250 (When plotted at A3)</div>	<div>IMPORTANT NOTICES</div> <ul style="list-style-type: none">• This information is given as a guide only and its accuracy cannot be guaranteed• The plan only shows those pipes owned by Wales & West Utilities (WWU) as its role as a licensed Gas Transporter• Service pipes, valves, syphons, stub connections etc. may not be shown but their presence should be anticipated• You must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains, services and other apparatus before any mechanical excavation is used• It is your responsibility to ensure this information is provided to all persons working near our plant• If in doubt call the WWU dig team on 02920 278912	<div>In case of an emergency call 0800 111 999</div> <div><div><div>Dig Sites</div><div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div>Area: <div></div></div><div>Line: <div></div></div><div>Low Pressure (LP) 21mbar – 75mbar</div><div>Medium Pressure (MP) 350mbar – 2bar</div><div>Intermediate Pressure (IP) 2bar – 7bar</div><div>High Pressure (HP) >7bar</div></div></div><div><div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div>Line/Fire Valve</div><div>Governor Station</div><div>Change of Diameter</div><div>End Cap</div><div>Depth of cover</div></div></div></div> <div><div><div><div></div></div><div>WALES&WEST UTILITIES</div></div><div><div><div>Dial before you dig</div><div>We need 10 days* notice</div></div><div><div><div>Smell gas? Call the Gas Emergency Service on 0800 111 999.</div><div><div><div>Dial before you start work. Call 029 2027 8912</div><div><div>Investigate Before you dig, make sure you know what's below.</div><div><div>Go ahead Done your research? Now you can dig safely.</div></div></div></div></div></div><div data-bbox="670 2024 2294 2049" data-label="Page-Footer"><p>Crown Copyright © - Reproduced by permission of Ordnance Survey on behalf of HMSO. And database right 2020. All rights reserved. Ordnance Survey Licence number 0100044308.</p></div></div></div></div>
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Dig Sites


Area:  Line: 


 Low Pressure (LP) 21mbar – 75mbar


 Medium Pressure (MP) 350mbar – 2bar


 Intermediate Pressure (IP) 2bar – 7bar


 High Pressure (HP) >7bar


 Line/Fire Valve


 Governor Station

 Change of Diameter


 End Cap


 Depth of cover


 WALES&WEST UTILITIES


 Dial before you dig

We need 10 days' notice

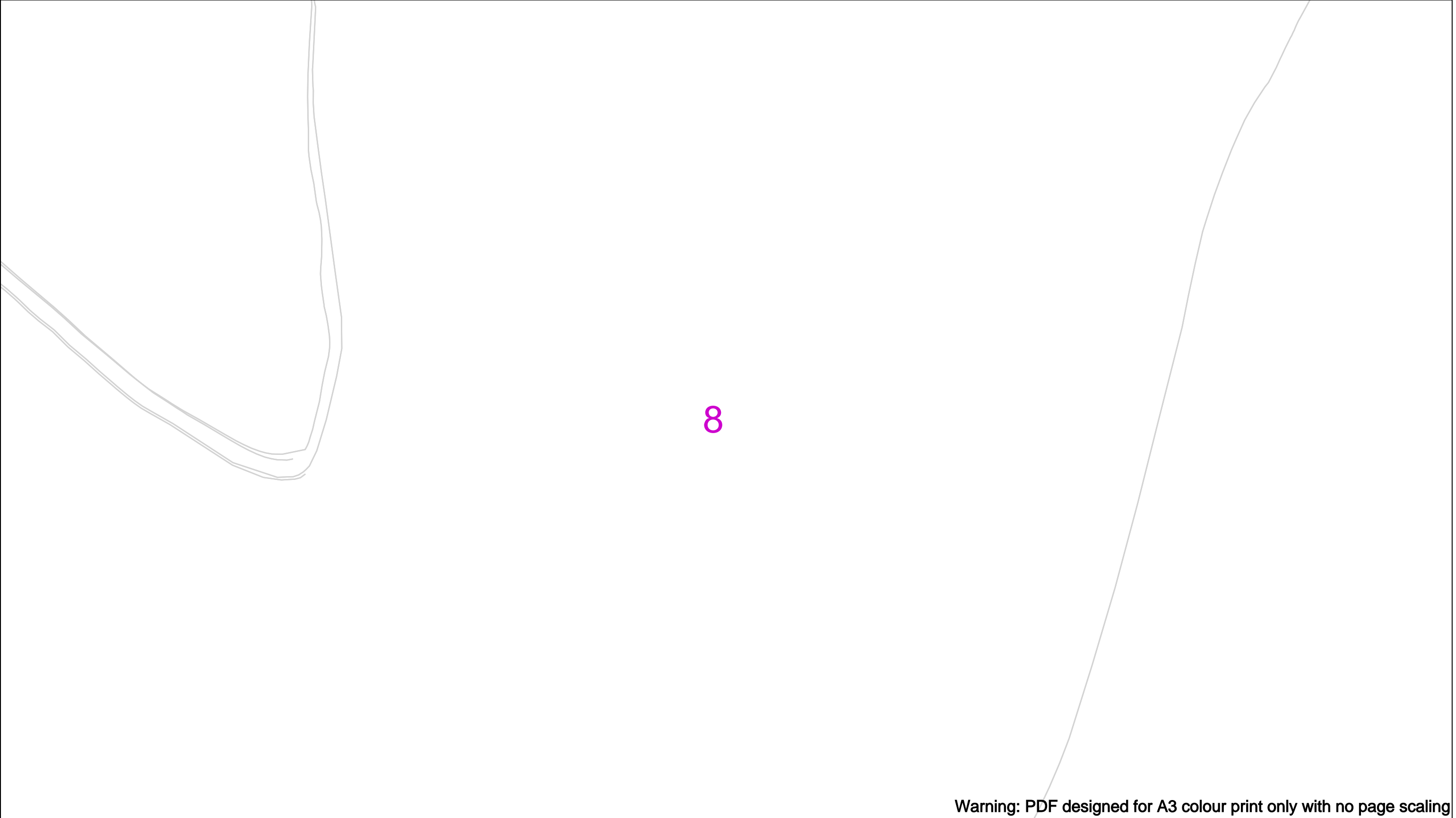
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 Dial
Call 029 2027 8912 before you start work.

 Investigate
Before you dig, make sure you know what's below.

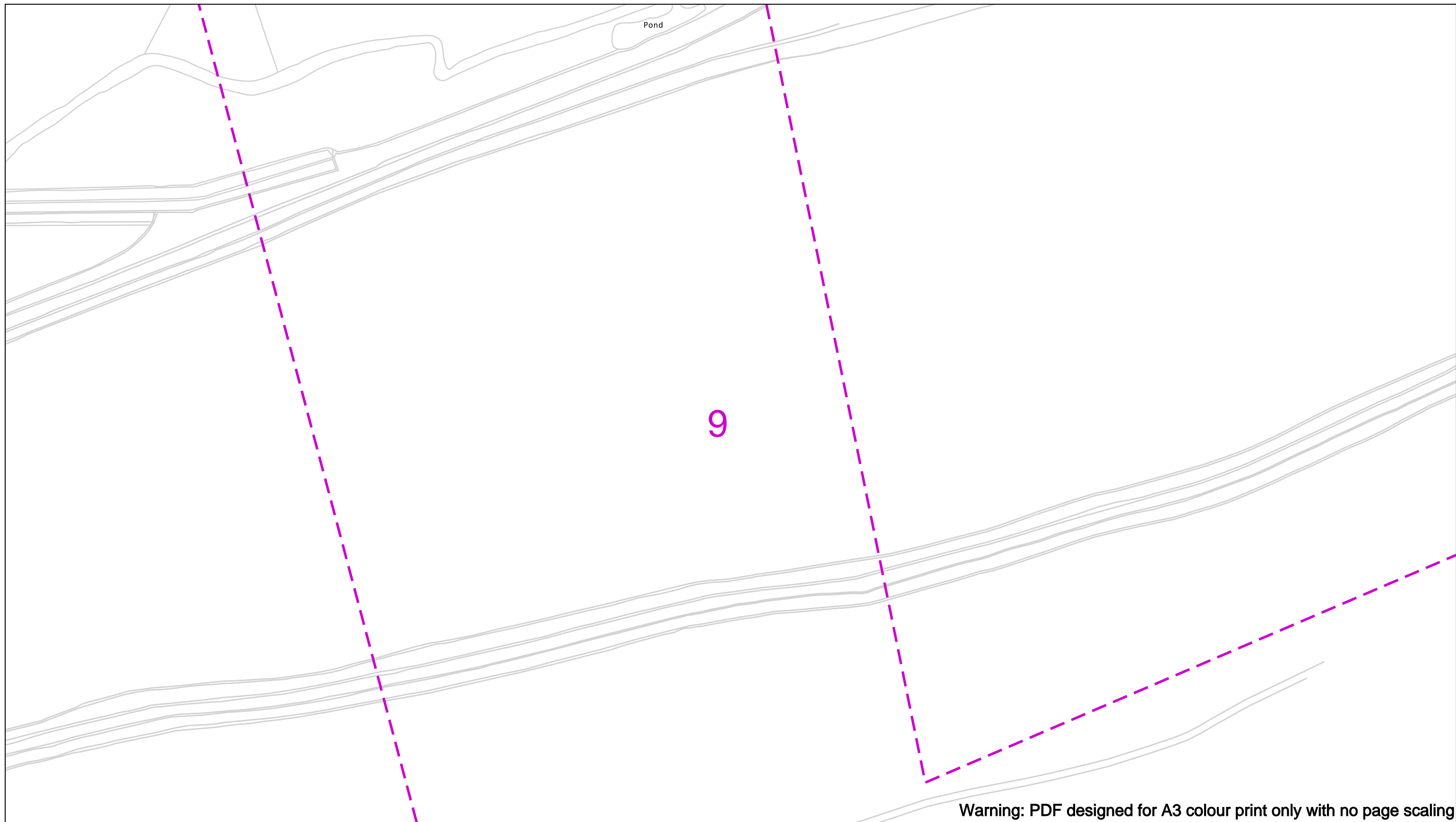
 Go ahead
Done your research? Now you can dig safely.

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A horizontal scale bar with a black outline and a white fill. It is divided into three segments: a black segment on the left, a white segment in the middle, and a black segment on the right. The text "100m" is written in black at the right end of the bar.

Dig Sites

	Low Pressure (LP) 21mbar – 75mbar
	Medium Pressure (MP) 350mbar – 2bar
	Intermediate Pressure (IP) 2bar – 7bar
	High Pressure (HP) >7bar

Area:  Line: 



Line/Fire Valve

Governor Station

Change of Diameter

End Cap

Depth of cover



Dial
before
you dig

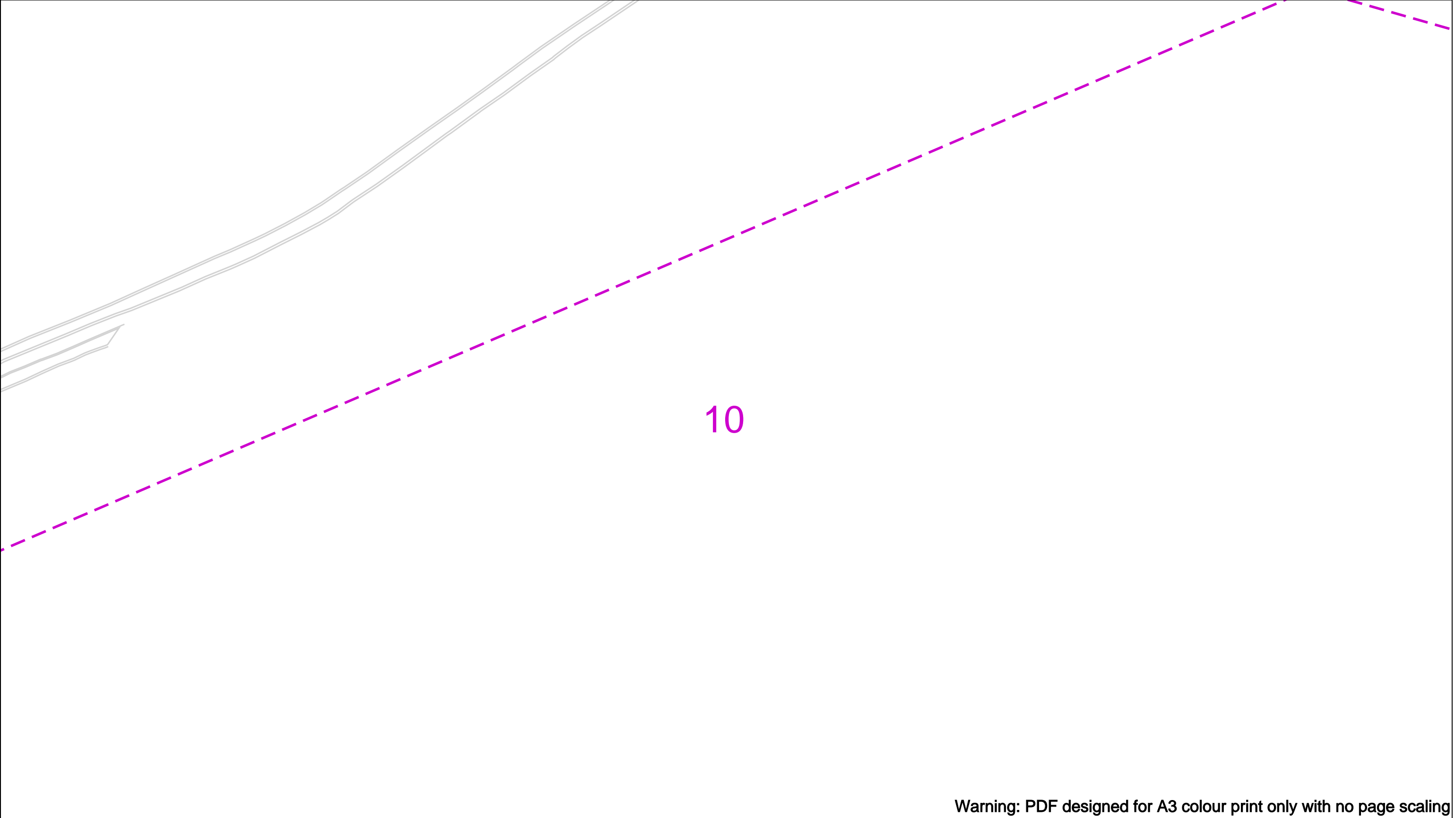
We need **10 days'** notice

Smell gas?
Call the Gas Emergency Service on
0800 111 999.

 **Dial**
Call **029 2027 8912**
before you start work.

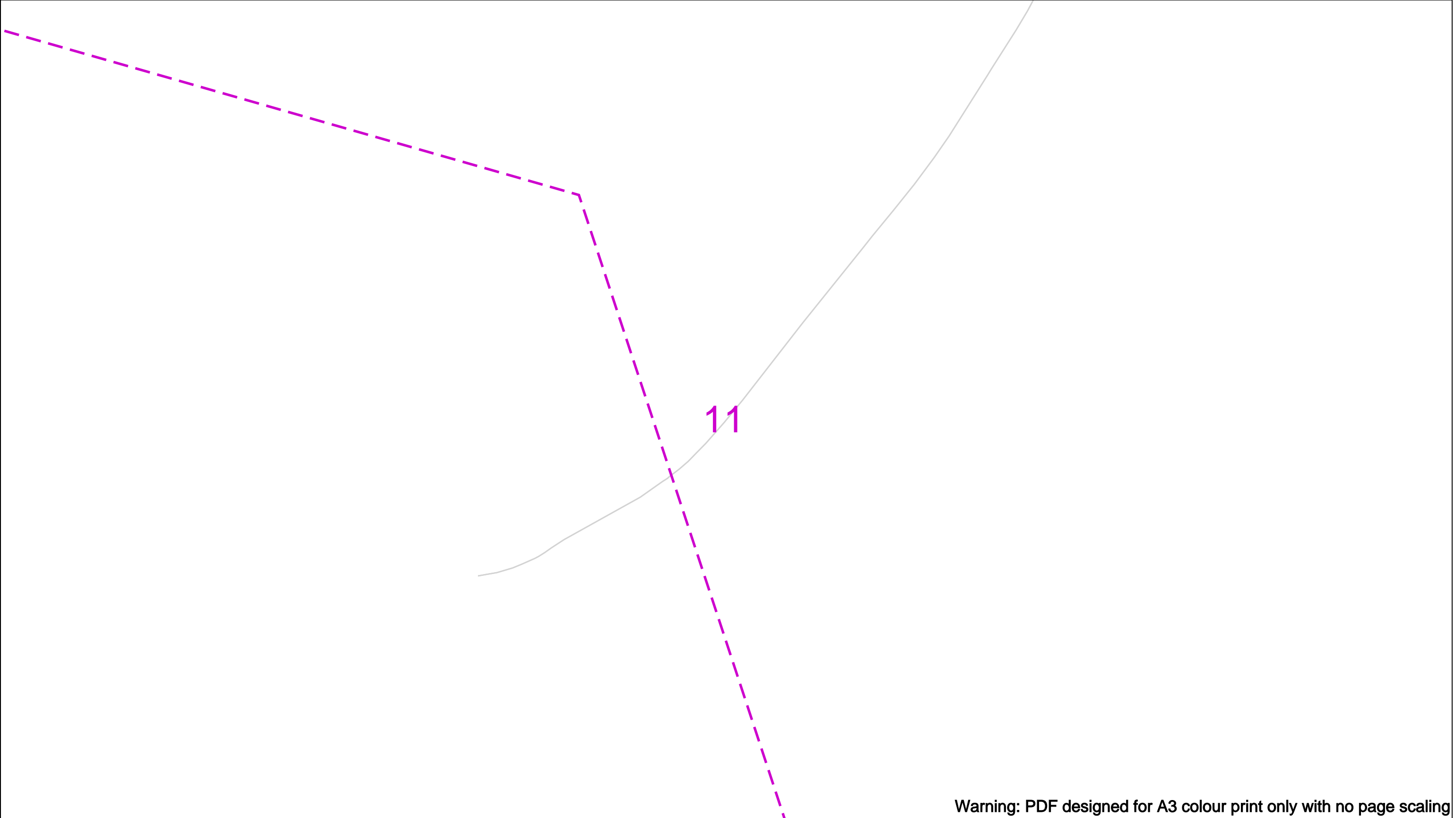
Investigate
Before you dig, make sure you know what's below.

 **Go ahead**
Done your research?
Now you can dig safely.



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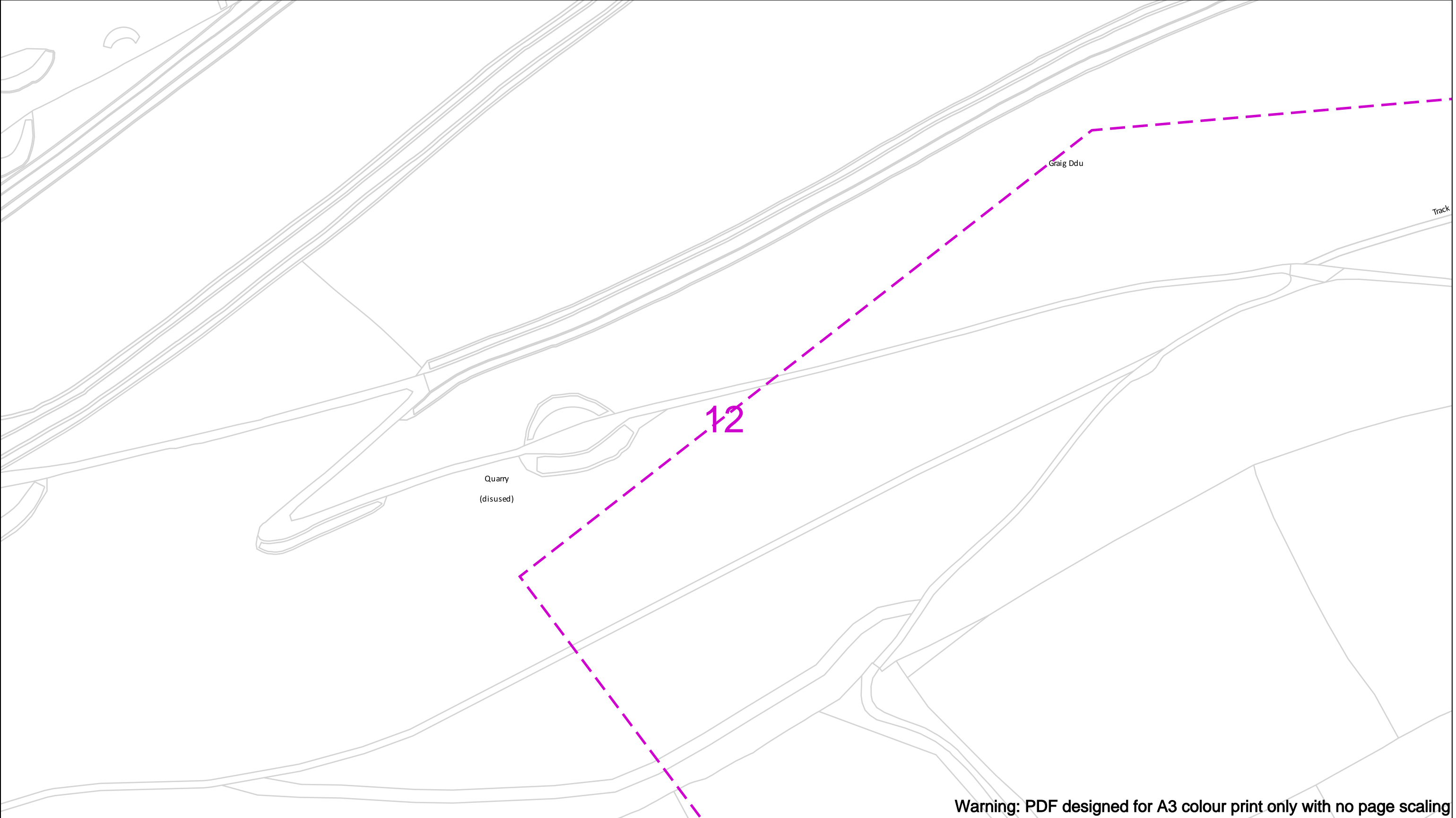
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Area: Line:

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Medium Pressure (MP) 350mbar – 2bar

Intermediate Pressure (IP) 2bar – 7bar

High Pressure (HP) >7bar

Line/Fire Valve

Governor Station

Change of Diameter

End Cap

Depth of cover

100m

Wales & West Utilities

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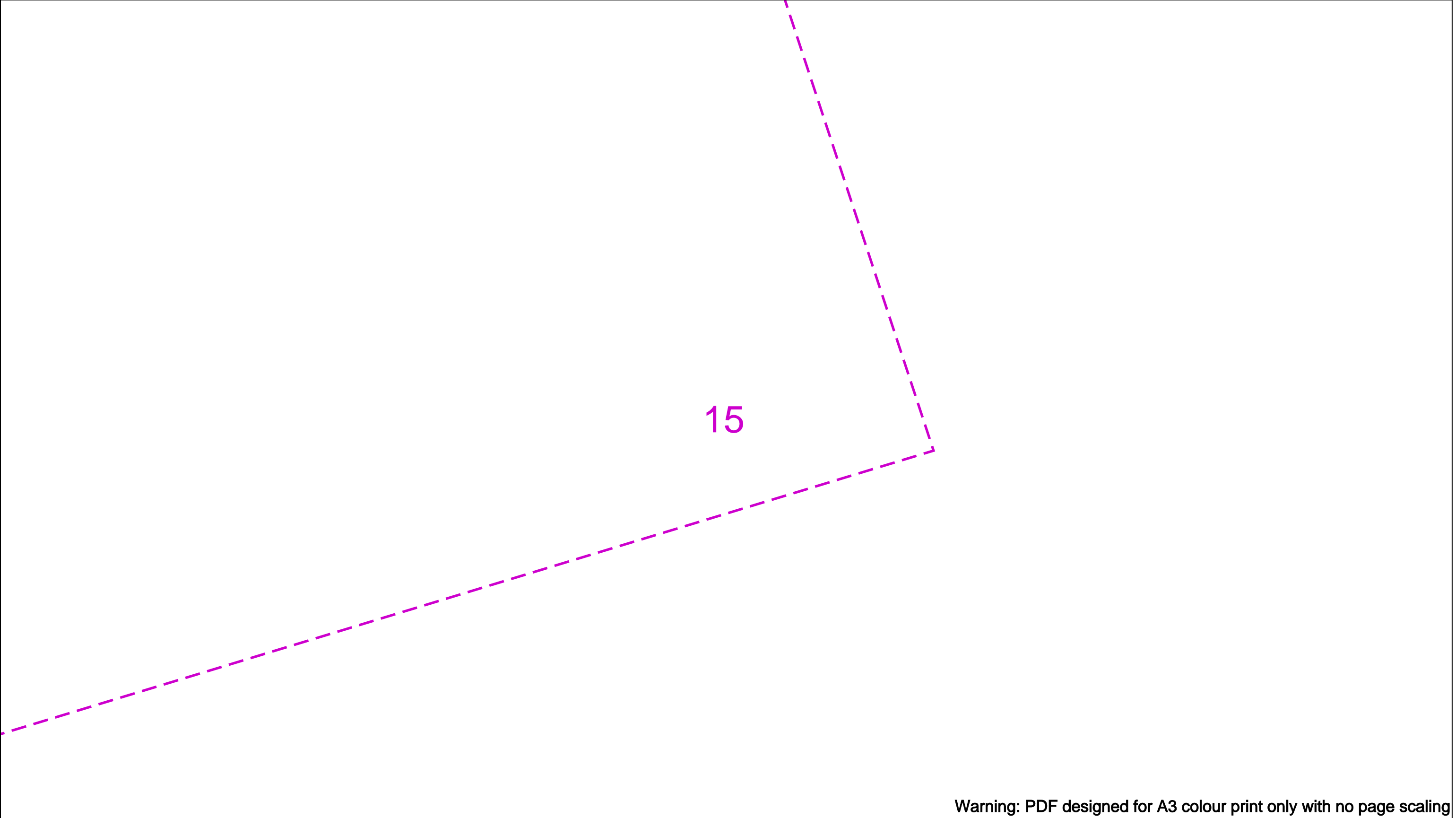
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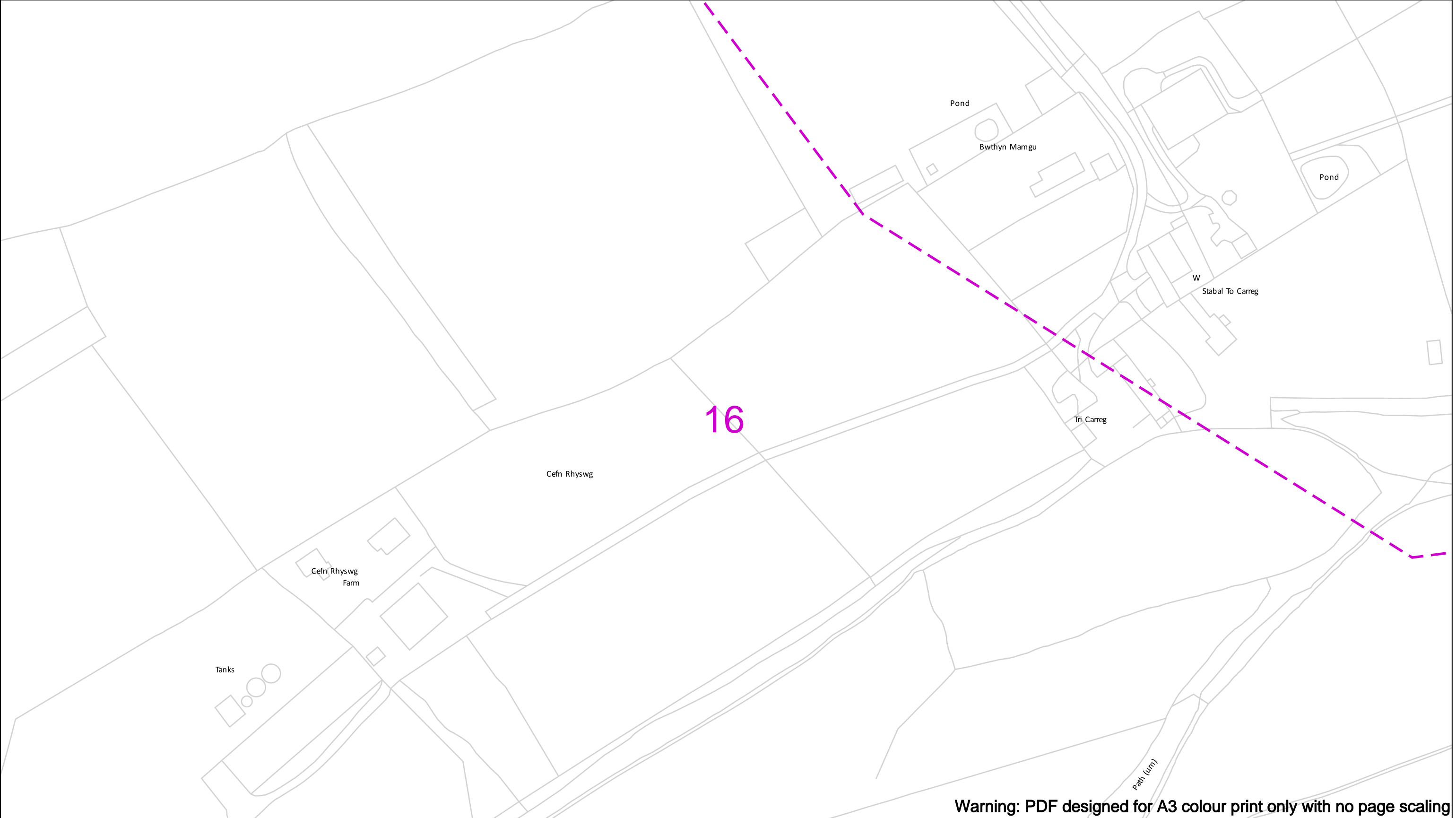
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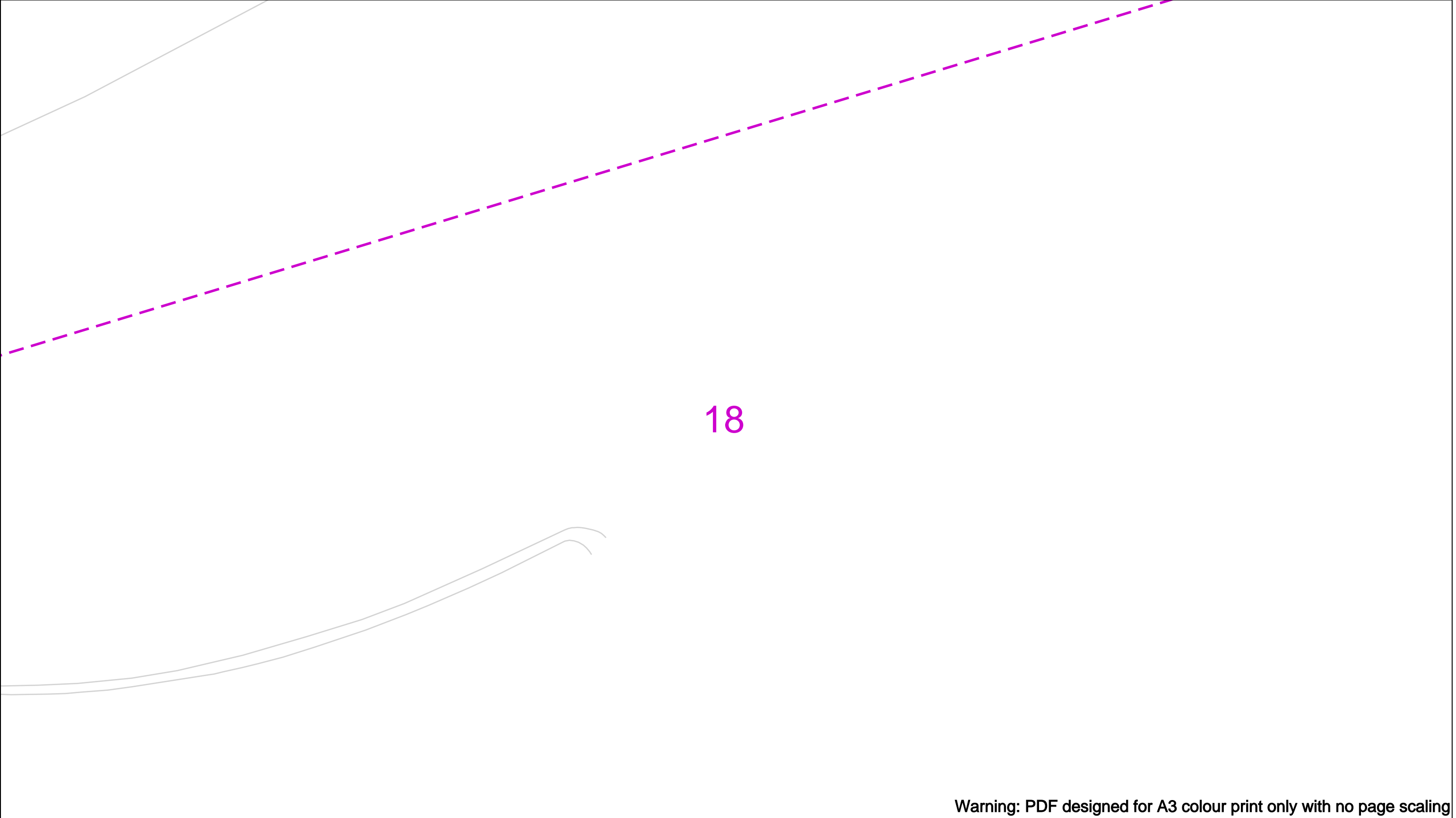


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<p>Contact Us Mapping Enquiries: 02920 278 912 General Enquiries: 0800 912 2999</p> <p>Date Requested: 26/07/2021 Job Reference: 22790287 Site Location: 323751 195235</p> <p>Requested by: Mr Duncan Phillips Your Scheme/Reference: MynyddMaen g03</p> <p>Scale: 1:1250 (When plotted at A3)</p>	<p>IMPORTANT NOTICES</p> <ul style="list-style-type: none">This information is given as a guide only and its accuracy cannot be guaranteedThe plan only shows those pipes owned by Wales & West Utilities (WWU) as its role as a licensed Gas TransporterService pipes, valves, syphons, stub connections etc. may not be shown but their presence should be anticipatedYou must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains, services and other apparatus before any mechanical excavation is usedIt is your responsibility to ensure this information is provided to all persons working near our plantIf in doubt call the WWU dig team on 02920 278912	<p>In case of an emergency call 0800 111 999</p> <div><div><p>Dig Sites</p><div><div></div><div></div><div></div><div></div></div><div><div>Low Pressure (LP) 21mbar – 75mbar</div><div>Medium Pressure (MP) 350mbar – 2bar</div><div>Intermediate Pressure (IP) 2bar – 7bar</div><div>High Pressure (HP) >7bar</div></div></div><div><div>Area: <div></div> Line: <div></div></div><div><div></div><div></div><div></div><div></div></div><div><div>Line/Fire Valve</div><div>Governor Station</div><div>Change of Diameter</div><div>End Cap</div><div>Depth of cover</div></div></div></div> <div><div><div><div></div><div>WALES&WEST</div><div>UTILITIES</div></div><div><div>Dial before you dig</div><div>We need 10 days' notice</div></div><div><div>Smell gas? Call the Gas Emergency Service on 0800 111 999.</div><div><div>Dial Call 029 2027 8912 before you start work.</div><div><div>Investigate Before you dig, make sure you know what's below.</div></div><div><div>Go ahead Done your research? Now you can dig safely.</div></div></div></div></div><div><p>Crown Copyright © - Reproduced by permission of Ordnance Survey on behalf of HMSO. And database right 2020. All rights reserved. Ordnance Survey Licence number 0100044308.</p></div></div>
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Date Requested: 26/07/2021
Job Reference: 22790287
Site Location: 323751 195235
Requested by:
Mr Duncan Phillips
Your Scheme/Reference:
MynyddMaen g03

Scale: 1:1250 (When plotted at A3)

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- It is your responsibility to ensure this information is provided to all persons working near our plant
- If in doubt call the WWU dig team on 02920 278912

Dig Sites

Area:

Line:

Low Pressure (LP) 21mbar – 75mbar

Medium Pressure (MP) 350mbar – 2bar

Intermediate Pressure (IP) 2bar – 7bar

High Pressure (HP) >7bar

100m

Line/Fire Valve

Governor Station

Change of Diameter

End Cap

Depth of cover

WALES&WEST
UTILITIES

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before
you dig

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10 days'
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Done your research?
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**Company Address**

Wales and West Utilities Ltd,
Wales and West House,
Spooner Close, Celtic,
Springs, Coedkernew,
Newport, NP10 8FZ

Our Ref: 22790295 MynyddMaen g04

Monday, 26 July 2021

Duncan Phillips
91 Market Street
Hoylake
Merseyside
CH47 5AA

Dear Duncan Phillips

Thank you for contacting us regarding Wales & West Utilities equipment at the above site.

According to our mains records Wales & West Utilities has no apparatus in the area of your enquiry. However Gas pipes owned by other GT's and also privately owned may be present in this area. Information with regard to such pipes should be obtained from the owners.

Safe digging practices, in accordance with HS(G)47, Avoiding Danger from underground services must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. Safe working procedures should be defined and practiced.

If you require advice in connection with your proposals please contact the relevant number below.

Yours sincerely,
WWU Dig Team

Gas Emergency Number:

In an emergency call 0800 111 999, 24 hours a day.

Mapping Enquiries:

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 02920 278912
Email dig@wwutilities.co.uk

General Enquiries:

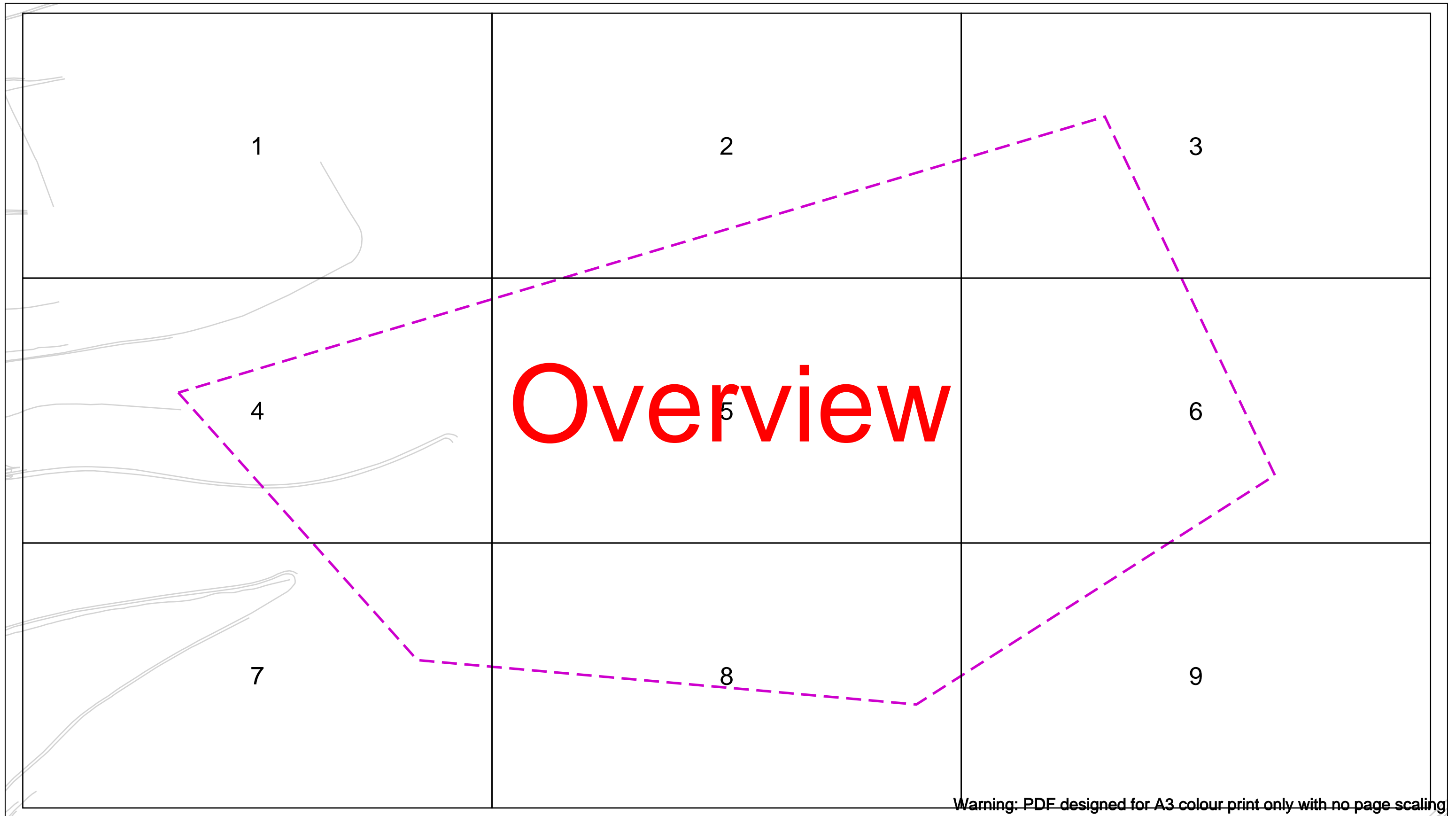
If you have a general enquiry, please call us on the following number

All areas 0800 912 29 99







































LinesearchbeforeUdig:

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

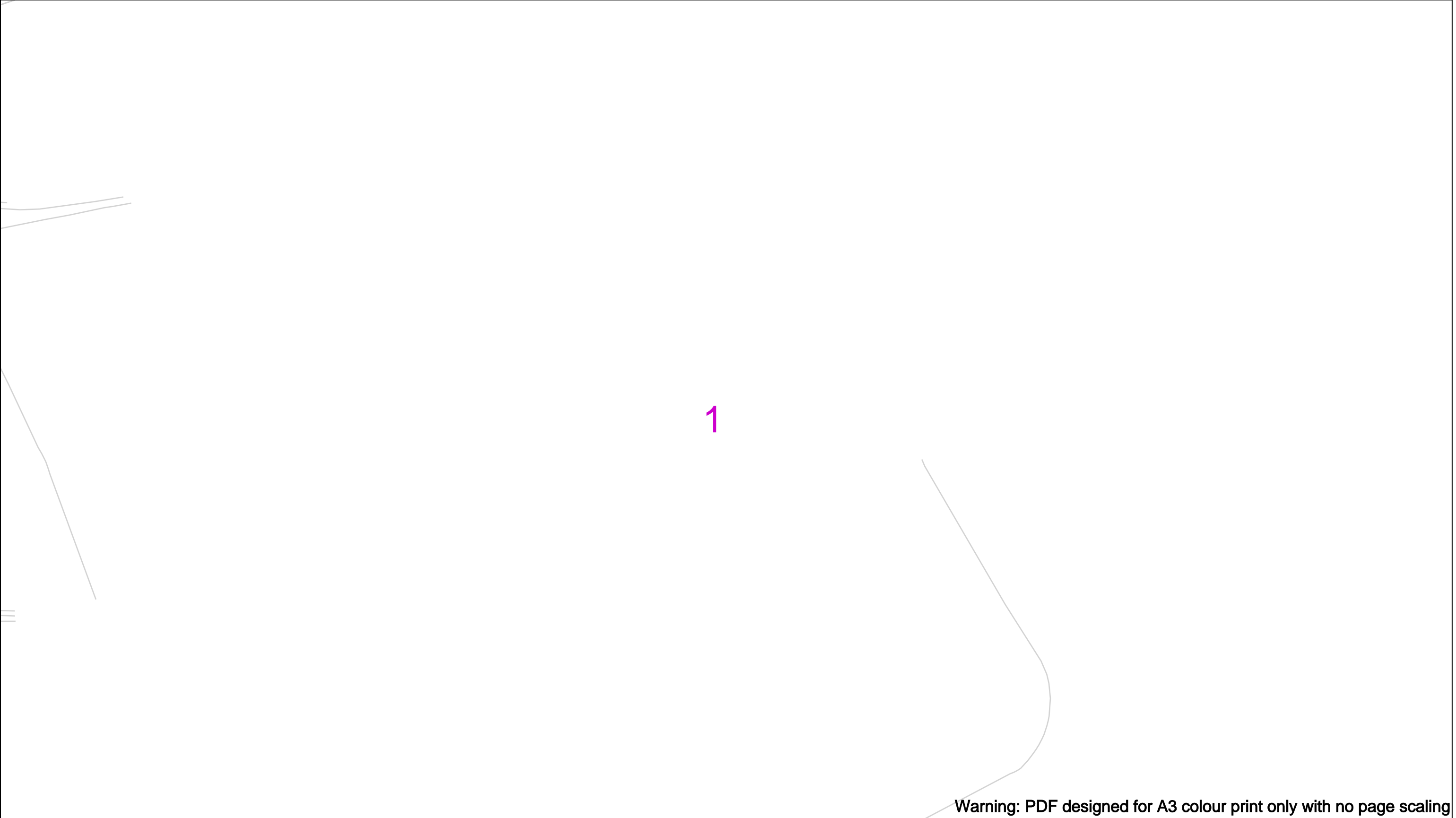
Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk



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<p>Contact Us Mapping Enquiries: 02920 278 912 General Enquiries: 0800 912 2999</p> <p>Date Requested: 26/07/2021 Job Reference: 22790295 Site Location: 323779 194508</p> <p>Requested by: Mr Duncan Phillips Your Scheme/Reference: MynyddMaen g04</p> <p>Scale: 1:3844 (When plotted at A3)</p>	<p>IMPORTANT NOTICES</p> <ul style="list-style-type: none">• This information is given as a guide only and its accuracy cannot be guaranteed• The plan only shows those pipes owned by Wales & West Utilities (WWU) as its role as a licensed Gas Transporter• Service pipes, valves, syphons, stub connections etc. may not be shown but their presence should be anticipated• You must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains, services and other apparatus before any mechanical excavation is used• It is your responsibility to ensure this information is provided to all persons working near our plant• If in doubt call the WWU dig team on 02920 278912	<p>In case of an emergency call 0800 111 999</p> <table><tr><td><p>Dig Sites</p><p>Low Pressure (LP) 21mbar – 75mbar</p><p>Medium Pressure (MP) 350mbar – 2bar</p><p>Intermediate Pressure (IP) 2bar – 7bar</p><p>High Pressure (HP) >7bar</p></td><td><p>Area:  Line: </p><p>Line/Fire Valve</p><p>Governor Station</p><p>Change of Diameter</p><p>End Cap</p><p>Depth of cover</p></td></tr></table>	<p>Dig Sites</p>  <p>Low Pressure (LP) 21mbar – 75mbar</p>  <p>Medium Pressure (MP) 350mbar – 2bar</p>  <p>Intermediate Pressure (IP) 2bar – 7bar</p>  <p>High Pressure (HP) >7bar</p>	<p>Area:  Line: </p>  <p>Line/Fire Valve</p>  <p>Governor Station</p>  <p>Change of Diameter</p>  <p>End Cap</p>  <p>Depth of cover</p>	<p> WALES & WEST UTILITIES</p> <p> Dial before you dig</p> <p>We need 10 days' notice</p> <p>Smell gas? Call the Gas Emergency Service on 0800 111 999.</p> <p> Dial Call 029 2027 8912 before you start work.</p> <p> Investigate Before you dig, make sure you know what's below.</p> <p> Go ahead Done your research? Now you can dig safely.</p>
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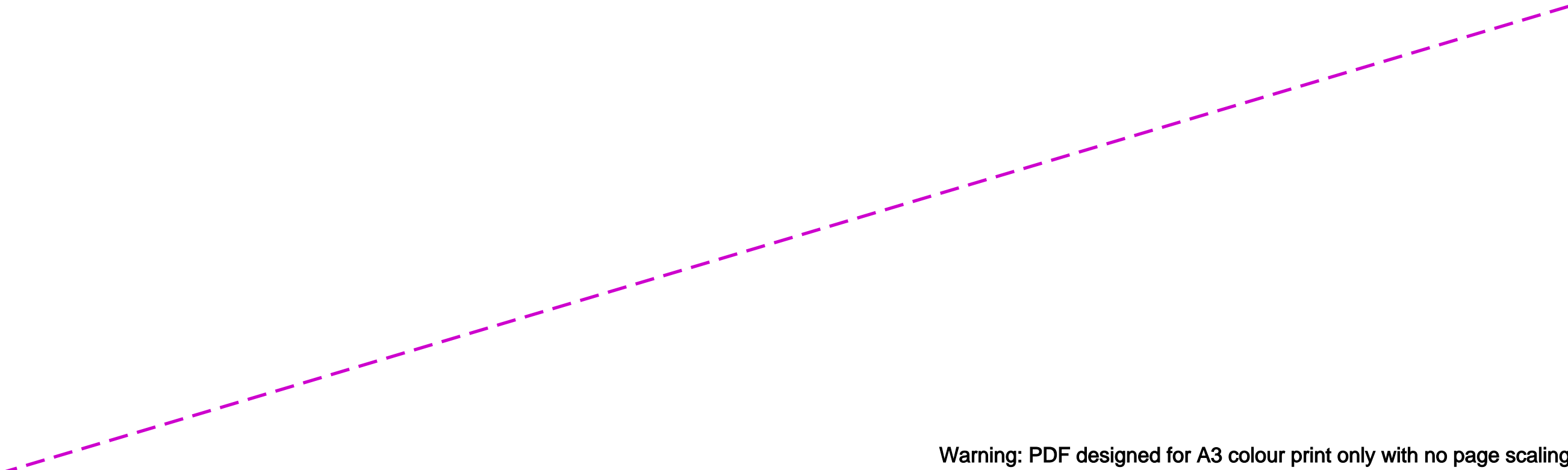


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2



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Date Requested: 26/07/2021
Job Reference: 22790295
Site Location: 323779 194508
Requested by:
Mr Duncan Phillips
Your Scheme/Reference:
MynyddMaen g04



Scale: 1:1250 (When plotted at A3)


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
High Pressure (HP) >7bar




Line/Fire Valve




Governor Station




Change of Diameter




End Cap





Depth of cover




100m









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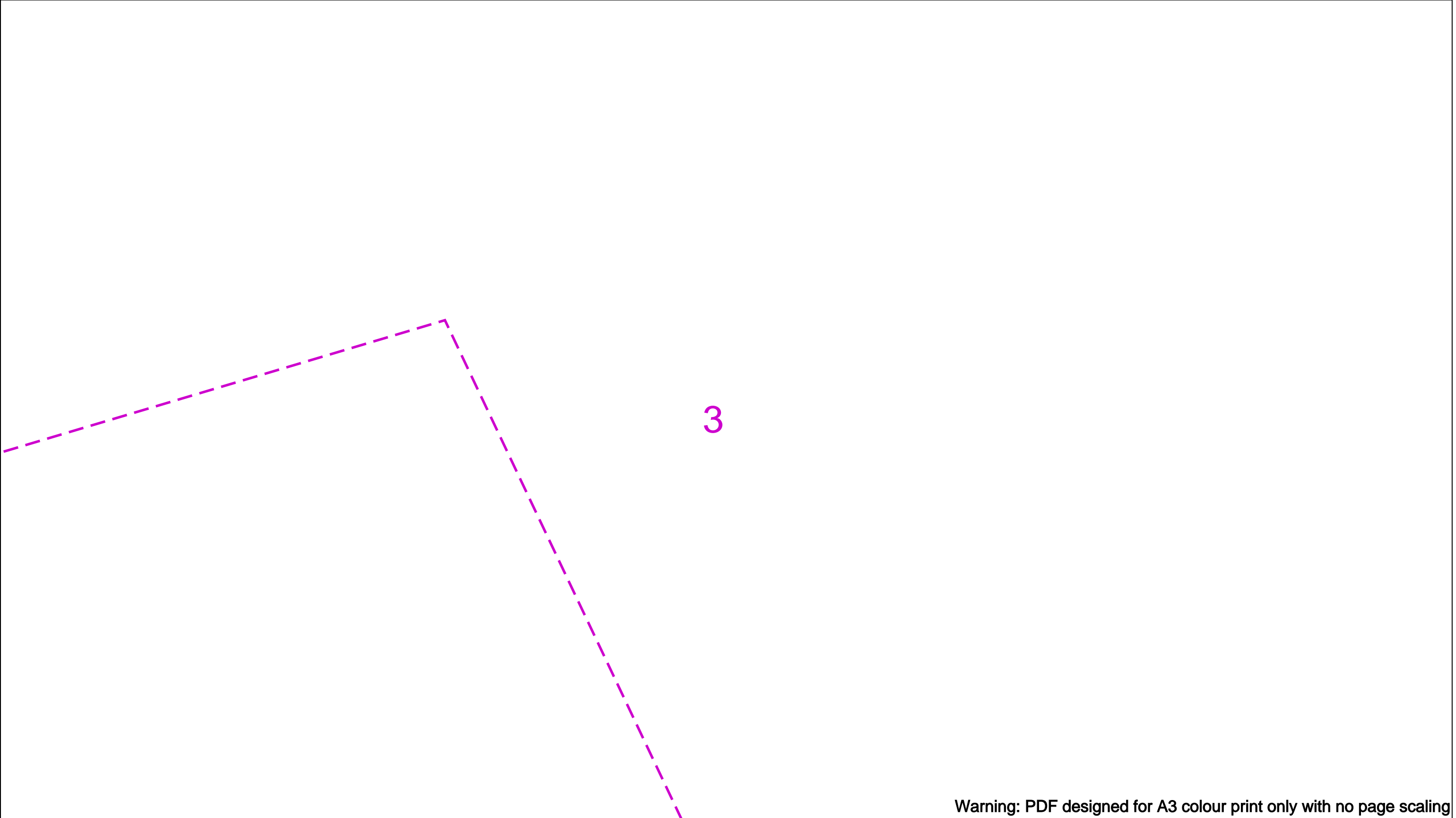
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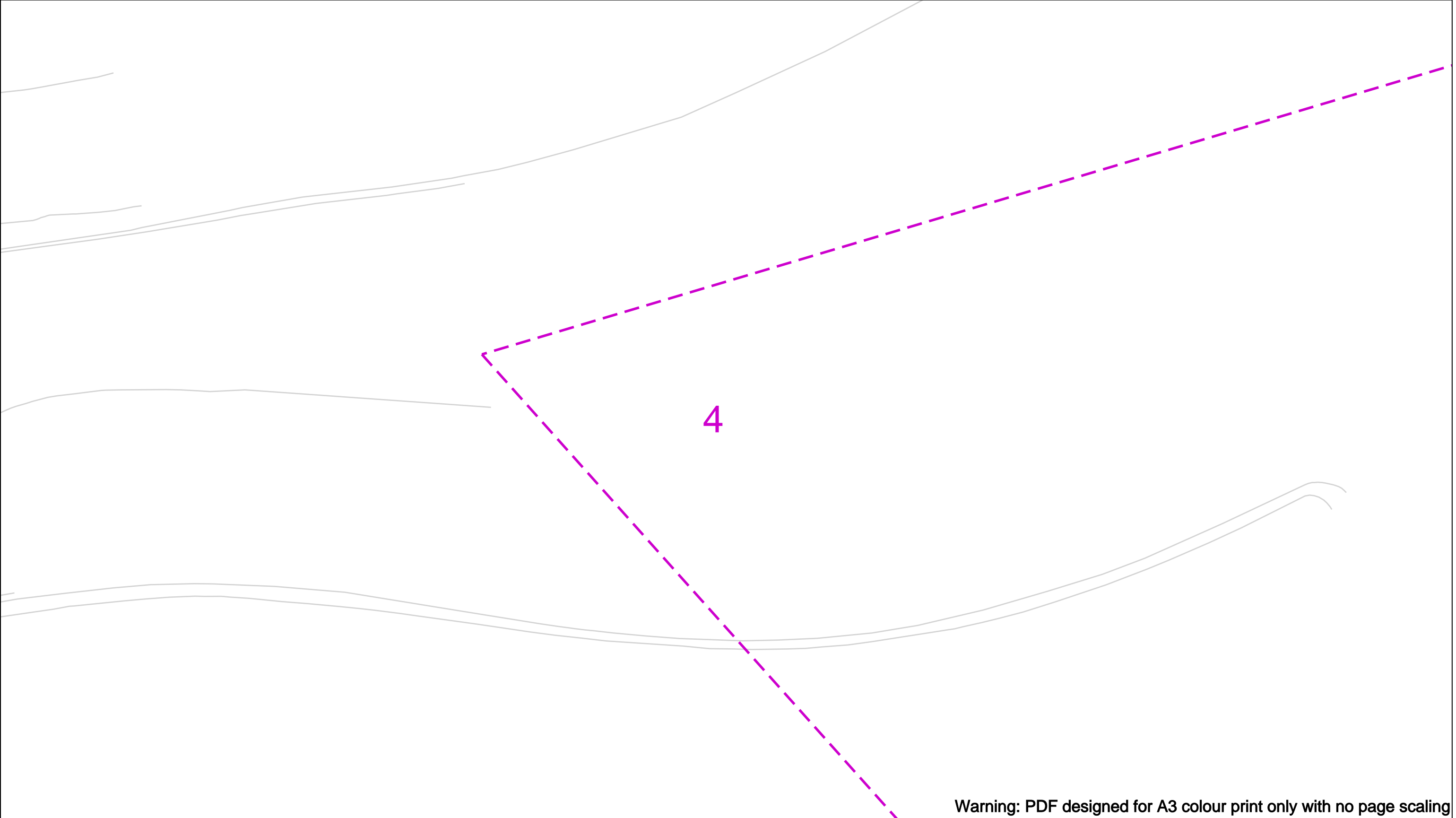
We need
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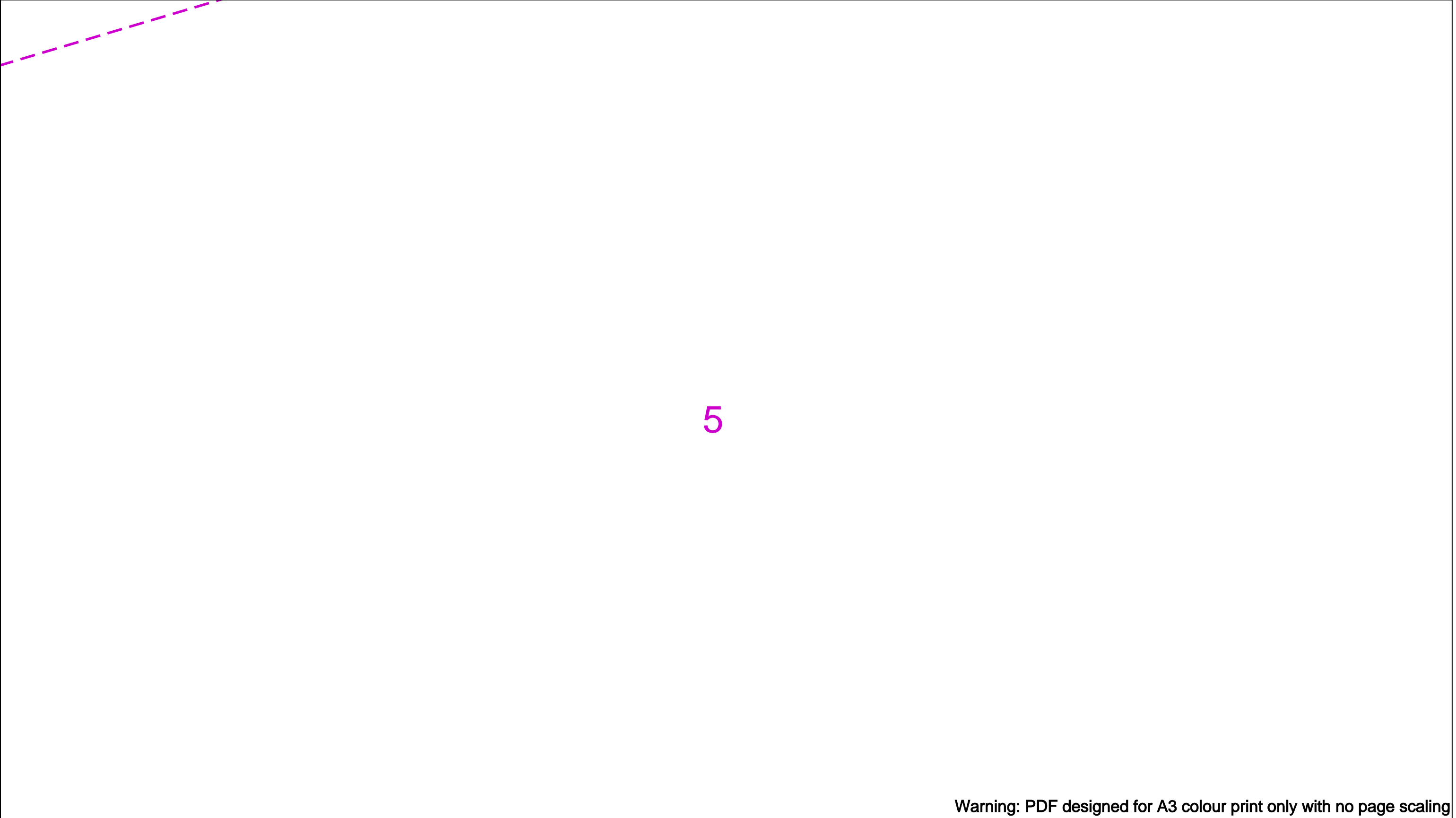
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**WALES & WEST
UTILITIES**

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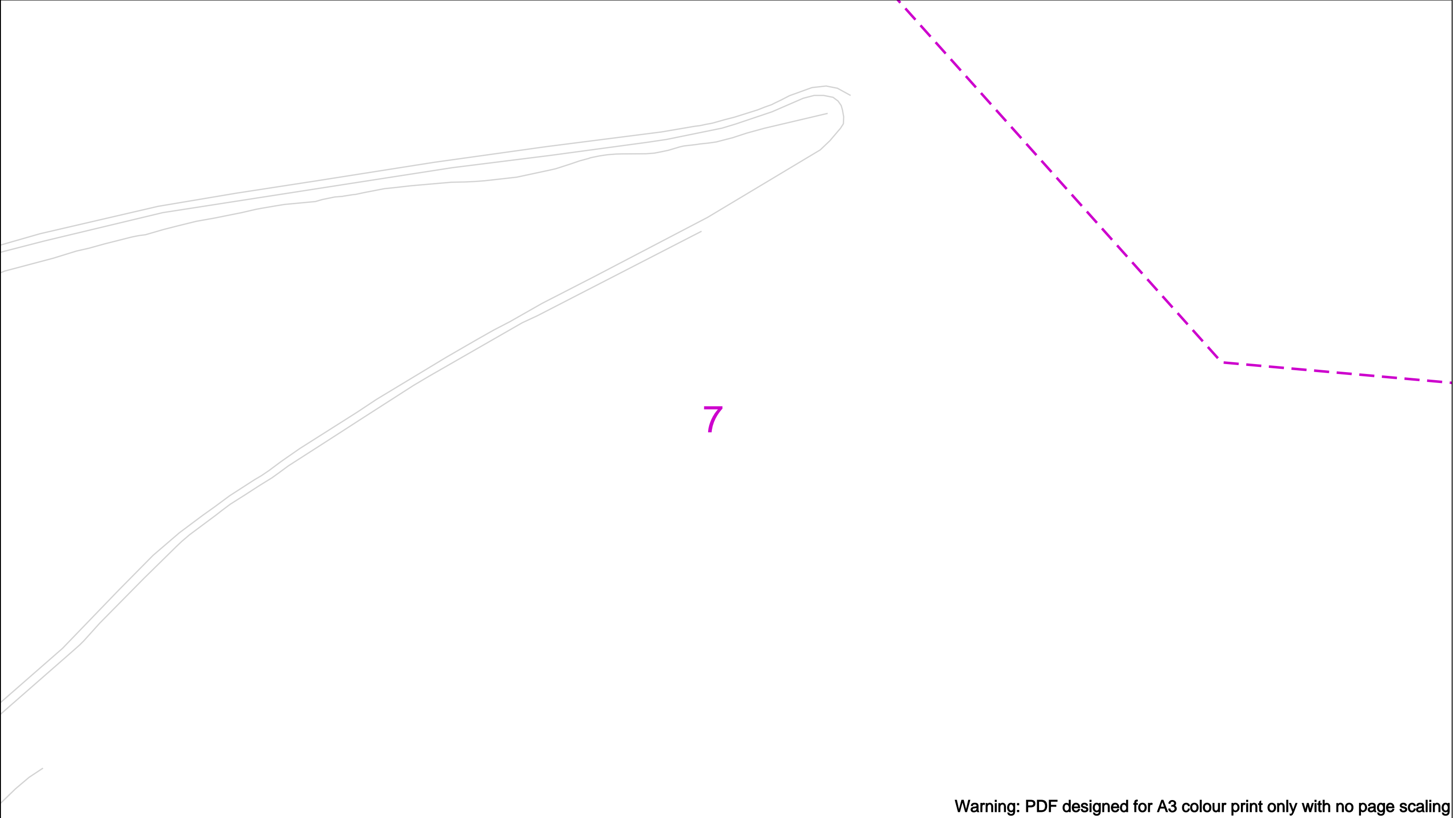
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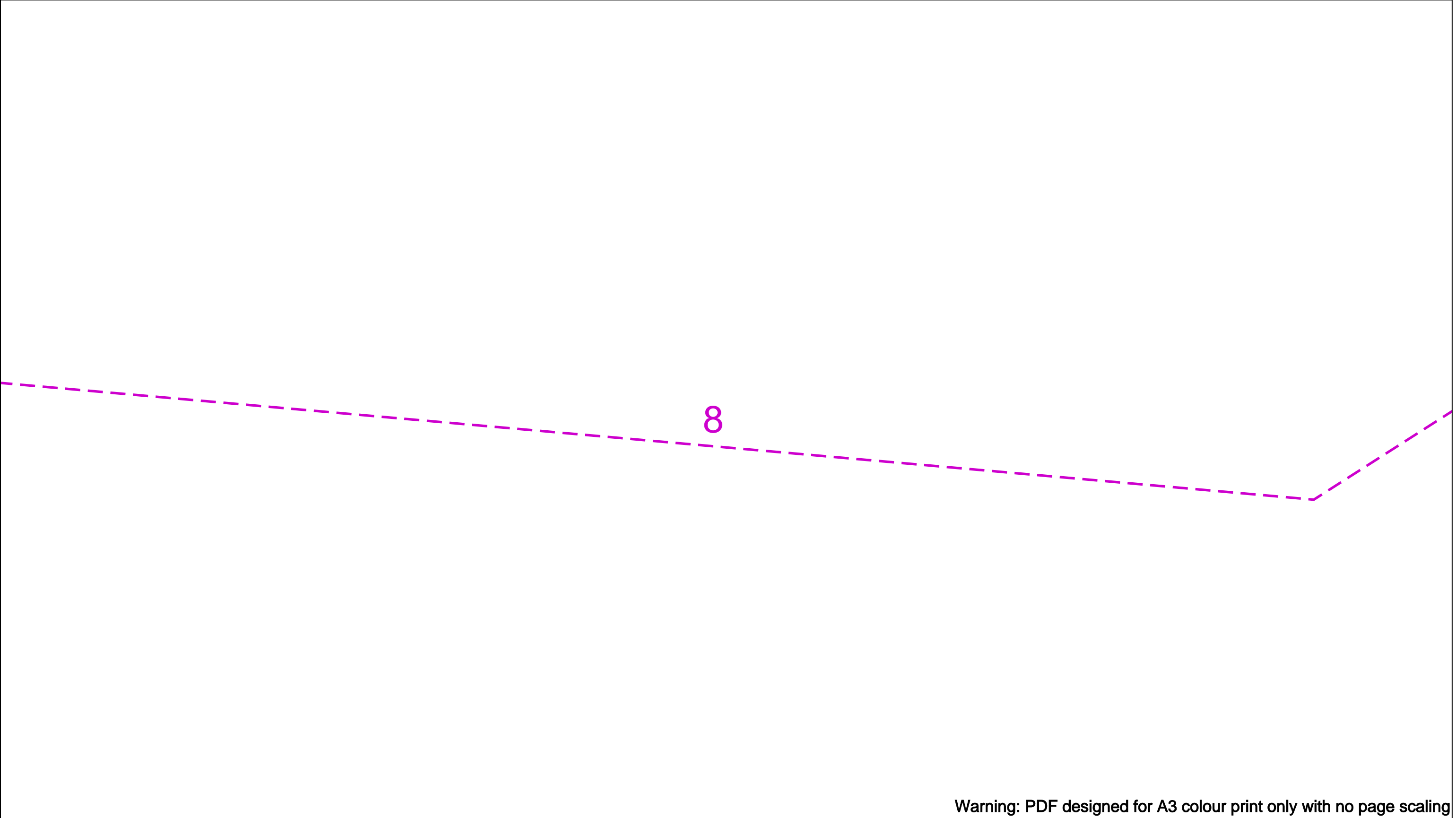
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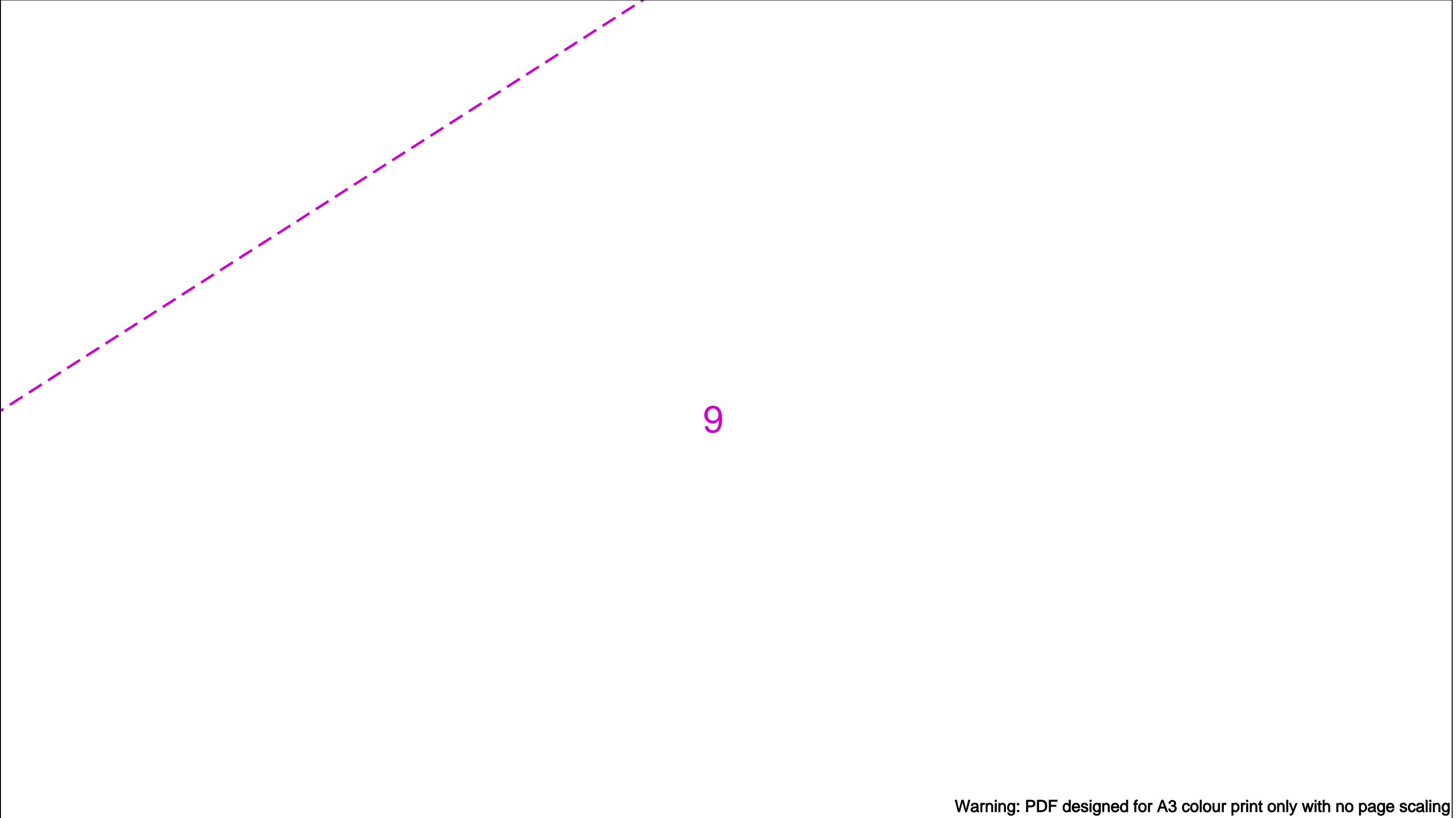
<p>Contact Us Mapping Enquiries: 02920 278 912 General Enquiries: 0800 912 2999</p> <p>Date Requested: 26/07/2021 Job Reference: 22790295 Site Location: 323779 194508 Requested by: Mr Duncan Phillips Your Scheme/Reference: MynyddMaen g04</p> <p>Scale: 1:1250 (When plotted at A3)</p>	<p>IMPORTANT NOTICES</p> <ul style="list-style-type: none">• This information is given as a guide only and its accuracy cannot be guaranteed• The plan only shows those pipes owned by Wales & West Utilities (WWU) as its role as a licensed Gas Transporter• Service pipes, valves, syphons, stub connections etc. may not be shown but their presence should be anticipated• You must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains, services and other apparatus before any mechanical excavation is used• It is your responsibility to ensure this information is provided to all persons working near our plant• If in doubt call the WWU dig team on 02920 278912	<p>In case of an emergency call 0800 111 999</p> <div><div><p>Dig Sites</p><div><div></div><div></div><div></div><div></div></div><div><div>Low Pressure (LP) 21mbar – 75mbar</div><div>Medium Pressure (MP) 350mbar – 2bar</div><div>Intermediate Pressure (IP) 2bar – 7bar</div><div>High Pressure (HP) >7bar</div></div></div><div><div>Area: <div></div></div><div>Line: <div></div></div></div><div><div><div></div><div></div><div></div><div></div></div><div><div>Line/Fire Valve</div><div>Governor Station</div><div>Change of Diameter</div><div>End Cap</div><div>Depth of cover</div></div></div></div> <div><div><div><div></div><div>WALES&WEST UTILITIES</div></div><div><div>Dial before you dig</div><div>We need 10 days* notice</div></div><div><div>Smell gas? Call the Gas Emergency Service on 0800 111 999.</div><div><div>Dial before you start work. Call 029 2027 8912</div><div>Investigate Before you dig, make sure you know what's below.</div><div>Go ahead Done your research? Now you can dig safely.</div></div></div></div></div>
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SPECIFICATION FOR

**SAFE WORKING IN THE VICINITY OF PIPELINES AND
ASSOCIATED INSTALLATIONS OPERATING ABOVE 2
BARG - REQUIREMENTS FOR THIRD PARTIES**

JUNE 2013

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FOREWORD

This Specification was approved, by Chris Clarke, Director of Asset Management and HS&E Dept on 21st June 2013 for use by managers, engineers and supervisors throughout Wales & West Utilities Limited.

Documents are revised, when necessary, by the issue of new editions. Users should ensure that they are in possession of the latest edition by referring to the document library available on the company intranet.

Compliance with this document does not confer immunity from prosecution for breach of statutory or other legal obligations.

BRIEF HISTORY

First published as T/SP/SSW22 Editorial update to reflect merger October 2002 Revised and reissued. Revised and Reissued as T/SP/SSW/22 Editorial update to comply with GRM	October 2001 November 2002 November 2003 June 2004 August 2004	EPSG/L01/283 EPSG/A03/10125 EPSG/T04/1209
Document revised to remove reference to Transco and replace with WWU Ltd.	May 2006	
Document revised to reflect WWU management structure, include IP pipelines and update letters	April 2013	

KEY CHANGES (Identify the changes from the previous version of this document)

Section	Amendments
1	Scope extended from any pipe operating above 7bar to above 2bar gauge
5 & 6	References added to T/PR/P/18
8	References added to wind turbine development near pipelines

USE

This document is provided by Wales & West Utilities Limited for information and reference.

MANDATORY AND NON-MANDATORY REQUIREMENTS

In this document:

must: indicates a mandatory requirement.

should: indicates best practice and is the preferred option. If an alternative method is used then a suitable and sufficient risk assessment must be completed to show that the alternative method delivers the same, or better, level of protection.

SPECIFICATION FOR SAFE WORKING AND DEVELOPMENT IN THE VICINITY OF PIPELINES AND ASSOCIATED INSTALLATIONS OPERATING ABOVE 2 BARG - REQUIREMENTS FOR THIRD PARTIES

INTRODUCTION

This specification is for issue to third parties carrying out work in the vicinity of high pressure gas pipelines (above 2 bar gauge) and associated installations and is provided to ensure that individuals planning and undertaking work take appropriate measures to prevent damage.

Any damage to a high-pressure gas pipeline or its coating can affect its integrity and can result in failure of the pipeline with potential serious hazardous consequences for individuals located in the vicinity of the pipeline if it were to fail. It is therefore essential that the procedures outlined in this document are complied with when working near to a high pressure, above 2 bar gauge, pipeline. If any work is considered by Wales & West Utilities to be in breach of the requirements stipulated in this document then the Wales & West Utilities responsible person will suspend the work until the non-compliances have been rectified.

The Pipelines Safety Regulations state that “No person shall cause such damage to a pipeline as may give rise to a danger to persons” (Regulation 15). Failing to comply with these requirements could therefore also result in prosecution by the Health and Safety Executive (HSE).

The requirements in this document are in line with the requirements of the IGE (Institution of Gas Engineers) recommendations IGE/SR/18 Edition 2 - Safe Working Practices To Ensure The Integrity Of Gas Pipelines And Associated Installations and the HSE’s guidance document HS(G)47 Avoiding Danger from Underground Services.

It is the responsibility of the third party to ensure that any work carried out also conforms with the requirements of the Construction and Design Management Regulations and all other relevant health and safety legislation.

**WHEN CARRYING OUT WORK IN THE VICINITY OF A HIGH PRESSURE PIPELINE
FOLLOW THE FOLLOWING PROCESS**

CONTACT WALES & WEST UTILITIES

Contact Wales & West Utilities to obtain formal consent - Section 2 of this document.

Note: at least 7 days' notice prior to commencement of the work is normally required



CONSIDER SAFETY

Consider the safety requirements - Section 3 of this document.



INFORM Wales & West Utilities AND REQUEST PIPELINE LOCATION

Inform Wales & West Utilities prior to carrying out work and arrange for Wales & West Utilities to locate the pipeline - Section 4 of this document

Note: at least 7 days' notice is normally required



OBSERVE RESTRICTIONS

Observe Wales & West Utilities restrictions on the allowed proximity of mechanical excavators and other power tools and the measures to protect the pipeline from construction vehicles when carrying out the work – Sections 5, 6 and 7 of this document.

Note: Wales & West Utilities may wish to supervise the work, consult Wales & West Utilities to confirm whether or not this is the case.



SPECIFIC ACTIVITIES

If work involves any of the following activities:

- No-Dig Techniques
- Increase in Cover
- Piling
- Demolition
- Hot Work
- Blasting
- Surface Mineral Extraction
- Deep Mining
- Landfilling
- Pressure Testing
- Seismic Surveys
- Wind Turbines

Comply with the requirements in Section 8 of this document



CONSULT WALES & WEST UTILITIES

Consult Wales & West Utilities prior to any backfilling over, alongside or under the pipeline and obtain Wales & West Utilities agreement to proceed. Normally Wales & West Utilities require 48 hours notice prior to backfilling - Section 9 of this document.

IMPORTANT: This flowchart should be used in conjunction with the entire SSW22 document and not in isolation, AND if at any time during the works the pipeline is damaged even slightly then observe the precautions in Section 10 of this document.

IF IN DOUBT CONTACT Wales & West Utilities

1. SCOPE

This specification sets out the safety precautions and other conditions affecting the design, construction and maintenance of services, structures and other works in the vicinity of Wales & West Utilities pipelines and associated installations operating at pressures greater than 2 bar gauge, located in both negotiated easements (see Section 12), in public highways and within the wider area of interest around a pipeline.

2. FORMAL CONSENT

High pressure pipelines are generally laid across country within an easement agreed with the landowner or within the highway.

As the required arrangements for working within an easement and working within the highway differ, this document has been structured to highlight the specific requirements for these two types of area where work may be carried out.

Generally, normal agricultural activities are not considered to affect the integrity of the pipeline, however consult Wales & West Utilities prior to undertaking deep cultivation in excess of 0.5m.

In all other cases no work shall be undertaken in the vicinity of the pipeline without the formal written consent of Wales & West Utilities.

Any documents, handed to contractors on site by Wales & West Utilities must be signed for by the site manager. Wales & West Utilities will record a list of these documents using the form in Appendix A, and the contractor should maintain a duplicate list.

2.1 Within an Easement

The promoter of any works (see Section 12) within an easement must provide Wales & West Utilities with details of the proposed works including a method statement of how the work is intended to be carried out.

Work must not go ahead until formal written consent has been given by Wales & West Utilities. This will include details of Wales & West Utilities protection requirements, contact telephone numbers and the emergency telephone number.

On acceptance of Wales & West Utilities requirements the promoter of the works must give Wales & West Utilities 7 working days' notice, or shorter only if agreed with Wales & West Utilities, before commencing work on site.

2.2 Within the Highway

Work must be notified to Wales & West Utilities in accordance with the requirements of The New Roads and Street Works Act (NRSWA) and HS(G)47.

The promoter of any works within the highway should provide Wales & West Utilities with details of the proposed works including a method statement of how the work is intended to be carried out. This should be submitted 7 working days before the planned work is to be carried out or shorter, only if agreed with Wales & West Utilities. If similar works are being carried out at a number of locations in close proximity a single method statement should be adequate.

Work should not go ahead until formal written consent has been given by Wales & West Utilities. This will include details of Wales & West Utilities' protection requirements, contact telephone numbers and the emergency telephone number.

2.3 Within the Area of Interest

Certain other activities, such as the development of adjacent land with buildings, or other constructions which may have an impact on the safe operation of above 2 bar gauge pipelines, must also be notified to Wales & West Utilities, for example the construction of wind turbines, masts or aerals.

Developers should ensure early consultation with Wales & West Utilities in respect of such development, rather than relying on local authority planning consultation, which may lead to substantial late changes to design or constraints on the planned development.

3. HS&E CONSIDERATIONS

3.1 Safe Control of Operations

All working practices must be agreed by Wales & West Utilities prior to work commencing. All personnel working on site must be made aware of the potential hazard of the pipeline and the actions they should follow in case of an emergency. The Site Document Control Form (Appendix A) should be used to record the list of relevant documents that have been provided by Wales & West Utilities to the contractor.

3.2 Deep Excavations

Special consideration should be given to the hazards associated with deep excavations. The HSE document CIS08 'Safety in Excavations' provides further guidance and is available on the HSE web site www.hse.gov.uk

3.3 Positioning of Plant

Mechanical excavators must not be sited or moved above the pipeline unless written authority has been given by the Wales & West Utilities responsible person.

Mechanical excavators must not dig on one side of the pipeline with the cab of the excavator positioned on the other side.

Mechanical excavators and other traffic must be positioned far enough away from the pipeline trench to prevent trench wall collapse.

3.4 General

Activities associated with working in the vicinity of pipelines operating above 2 bar gauge may have impact on the safety of the general public, Wales & West Utilities staff and contractors, and may affect the local environment. Contractors must carry out suitable and adequate risk assessments prior to the commencement of work to ensure that all such issues are properly considered and risks mitigated.

4. PIPELINE LOCATING

The third party should give 7 working days' notice (or shorter as agreed with Wales & West Utilities) to ensure that the pipeline is suitably located and marked out by Wales & West Utilities prior to the work commencing.

Prior to work commencing on site the pipeline must be located and pegged or suitably marked out by Wales & West Utilities personnel. In exceptional circumstances with the prior agreement of Wales & West Utilities the locating and marking out of the pipeline could be carried out by competent third parties on behalf of the contractor as long as Wales & West Utilities is assured of their competence and the procedures to be followed.

Safe digging practices, in accordance with HSE publication HS(G)47 should be followed as both direct and consequential damage to gas plant can be dangerous both to employees and to the general public.

Previously agreed working practices should be reviewed and revised based on current site conditions. Any changes must be agreed by the Wales & West Utilities responsible person.

The requirements for trial holes to locate the pipeline or determine levels at crossing points must be determined on site by the Wales & West Utilities responsible person.

The excavation of all trial holes must be supervised by the Wales & West Utilities responsible person.

5. SLABBING AND OTHER PROTECTIVE MEASURES

No protective measures including the installation of concrete slab protection should be installed over or near to the Wales & West Utilities pipeline without the prior permission of Wales & West Utilities. Wales & West Utilities will need to agree the material, the dimensions and method of installation of the proposed protective measure. The method of installation must be confirmed through the submission of a formal written method statement from the contractor to Wales & West Utilities.

Where permanent slab protection is to be applied over the pipeline Wales & West Utilities should carry out a survey (Pearson or DCVG Survey) of the pipeline to check that there is no existing damage to the coating of the pipeline prior to the slab protection being put in place. In addition the pipeline records should be consulted to determine whether any other investigations or remedial works would be needed in advance of the slab construction, e.g. reference to T/PR/P/18. Wales & West Utilities must therefore be contacted prior to the laying of any slab protection to arrange this survey. The Safety precautions detailed in Sections 3 and 6 of this document should also be observed during the installation of the pipeline protection.

6. EXCAVATION

6.1 In Proximity to a Pipeline in an Easement

Third parties must not excavate unsupervised, with a powered mechanical excavator closer than 3 metres to the Wales & West Utilities located pipeline or with hand held power tools closer than 1.5 metres. Any fitting, attachment or connecting pipework on the pipeline must be exposed by hand. All other excavation must be by hand.

Consideration may be given to a relaxation of these limits by agreement with the Wales & West Utilities responsible person on site and only whilst he remains on site. In this case a powered mechanical excavator must not be allowed to excavate closer than 0.6 metres to the nearest part of the pipeline.

Where sufficient depth of cover exists, following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 0.25 metres, using a toothless bucket.

No topsoil or other materials should be stored within the easement without the written permission of Wales & West Utilities.

No topsoil or materials should be stored over the pipeline.

No fires should be allowed in the easement strip or close to above ground gas installations.

After the completion of the work the level of cover over the pipeline should be the same as that prior to work commencing unless agreed otherwise with the Wales & West Utilities responsible person.

No new service shall be laid parallel to the pipeline within the easement. In special circumstances, and only with formal written agreement from Wales & West Utilities, this may be relaxed for short excursions where the service shall be laid no closer than 600 mm to the side of the pipeline.

Where work is being carried out parallel to the pipeline within or just alongside the easement a post and wire fence must be erected as a protective barrier between the works and the pipeline.

6.2 In Proximity to a Pipeline in the Highway

Removal of the bituminous or concrete highway surface layer by mechanical means is permitted to depth of 300 mm, although the use of chain trenchers to do this shall not be permitted within 3 metres of the pipeline. The Wales & West Utilities responsible person may want to monitor this work.

Where the bituminous or concrete highway surface layer extends below 0.3 metres deep it should only be removed by handheld power assisted tools under the supervision of the Wales & West Utilities responsible person. In exceptional circumstances, and following a risk assessment, these conditions may be relaxed by the Wales & West Utilities responsible person.

Third parties should not excavate, unsupervised, with a powered mechanical excavator closer than 3 metres to the located Wales & West Utilities pipeline or with hand held power tools closer than 1.5 metres. Any fitting or attachment must be exposed by hand.

In special circumstances consideration may be given to a relaxation of these rules by agreement with the Wales & West Utilities responsible person on site and only whilst he remains on site only whilst he remains on site and only whilst he remains on site to supervise this work..

The use of 'No dig' techniques is covered in Section 8.1.

Any new service running parallel to the pipeline should be laid no closer than 600 mm to the pipeline (see Section 6.4).

6.3 Crossing Over a Pipeline

Where a new service is to cross over the pipeline a clearance distance of 600 mm between the crown of the pipeline and underside of the service must be maintained. If this cannot be achieved the service must cross below the pipeline with a clearance distance of 600 mm.

In special circumstances this distance may be reduced at the discretion of the Wales & West Utilities responsible person on site.

6.4 Crossing Below a Pipeline

Where a service is to cross below the pipeline a clearance distance of 600 mm between the crown of the service and underside of the pipeline should be maintained.

The exposed pipeline must be suitably supported. The Wales & West Utilities responsible person must be consulted and a stress analysis may be required in order to establish support requirements. The stress analysis should be carried out by individuals with demonstrated expertise in this area, Wales & West Utilities can be consulted for advice on suitable specialists. Wales & West Utilities may request a copy of the stress analysis to confirm its adequacy.

Specific additional constraints apply to Wales & West Utilities pipelines that fall under the requirements of T/PR/P/18.

All supports must be removed prior to backfilling.

The exposed pipelines must be protected by matting and suitable timber cladding.

6.5 Cathodic Protection

Cathodic Protection is applied to all of Wales & West Utilities above 2 bar gauge buried steel pipelines and is a method of protecting pipelines with damaged coatings from corrosion by maintaining an electrical potential difference between the pipeline and anodes placed at strategic points along the pipeline.

Where a new service is to be laid and similarly protected, Wales & West Utilities will undertake interference tests to determine whether the new service is interfering with the cathodic protection of the Wales & West Utilities pipeline.

Should any cathodic protection posts or associated apparatus need moving to facilitate third party works reasonable notice, typically 7 days, should be given to Wales & West Utilities. Wales & West Utilities will undertake this work and any associated costs will be borne by the third party.

7. CONSTRUCTION TRAFFIC

Where existing roads cannot be used construction traffic should ONLY cross the pipeline at previously agreed locations. All crossing points will be fenced on both sides with a post and wire fence and with the fence returned along the easement for a distance of 6 metres. The pipeline shall be protected at the crossing points by temporary rafts of either sleeper or reinforced concrete construction, constructed at ground level. The Wales & West Utilities responsible person will review ground conditions, vehicle types and crossing frequencies to determine the type and construction of the raft required.

Notices directing traffic to the crossing points should be erected.

8. SPECIFIC ACTIVITIES

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of the pipeline. Consult Wales & West Utilities if you are intending to undertake one of the listed prescribed activities and/or you require further advice on whether the work that you are intending to undertake has the potential to affect the pipeline.

8.1 No-Dig Techniques

Where the contractor intends using no dig techniques then a formal method statement must be produced for all work that would encroach (either above or below ground) within the pipeline easement. This method statement must be formally agreed with Wales & West Utilities prior to the commencement of the work. Wales & West Utilities may wish to be present when the work is being carried out and must therefore be given adequate advance notice before the commencement of the work.

8.2 Increase in Cover

A pipeline integrity assessment must be provided for situations involving a final cover depth exceeding 2.5 metres. This assessment should take due account of both soil 'dead' loading and ground settlement due to earthworks. Embankment design and construction over pipelines must give consideration to prevention of any instability. Expert advice may need to be sought which can be arranged through Wales & West Utilities.

8.3 Piling

No piling will be allowed within 15 metres of a pipeline without an assessment of the vibration levels at the pipeline. The peak particle velocity at the pipeline should be limited to a maximum level of 75 mm/sec. In any event the ground vibration shall be monitored by the contractor and the results available to the Wales & West Utilities Responsible person at their request. A typical monitoring device would be the Vibrock V801 seismograph and tri-axial geophone sensor.

Where ground conditions are of submerged granular deposits of silt and sand, an assessment of the effect of vibration on settlement and liquefaction at the pipeline shall be made.

Expert advice may need to be sought which can be arranged through Wales & West Utilities.

8.4 Demolition

No demolition should be allowed within 150 metres of a pipeline without an assessment of the vibration levels at the pipeline. The peak particle velocity at the pipeline must be limited to a maximum level of 75 mm/sec. In any event the ground vibration shall be monitored by the contractor and the results available to the Wales & West Utilities Responsible person at their request.

Where ground conditions are submerged granular deposits of silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the pipeline shall be made.

Expert advice may need to be sought which can be arranged through Wales & West Utilities.

8.5 Blasting

No blasting should be allowed within 250 metres of a pipeline without an assessment of the vibration levels at the pipeline. The peak particle velocity at the pipeline must be limited to a maximum level of 75 mm/sec. In any event the ground vibration must be monitored by the contractor and the results available to the Wales & West Utilities Responsible person at their request.

Where ground conditions are of submerged granular deposits of silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the pipeline shall be made.

Expert advice may need to be sought which can be arranged through Wales & West Utilities.

8.6 Surface Mineral Extraction

An assessment must be carried out on the effect of surface mineral extraction activity within 100 metres of a pipeline. Consideration should also be given to extraction around groundbeds and other pipeline associated plant and equipment.

Where the mineral extraction extends up to the pipeline easement, a stable slope angle and stand-off distance between the pipeline and slope crest must be determined by Wales & West Utilities. The easement strip should be clearly marked by a suitable permanent boundary such as a post and wire fence, and where appropriate, slope indicator markers shall be erected to facilitate the verification of the recommended slope angle as the slope is formed, by the contractor. The pipeline easement and slope needs to be inspected periodically to identify any signs of developing instability. This may include any change of slope profile including bulging, the development of tension cracks on the slope or easement, or any changes in drainage around the slope. The results of each inspection should be recorded.

Where surface mineral extraction activities are planned within 100 metres of the pipeline but do not extend up to the pipeline easement boundary, an assessment, by Wales & West Utilities must be made on whether the planned activity could promote instability in the vicinity of the pipeline. This may occur where the pipeline is routed across a natural slope or the excavation is deep. A significant cause of this problem is where the groundwater profile is affected by changes in drainage or the development of lagoons.

Where the extraction technique involves explosives the provisions of section 8.5 apply.

8.7 Deep Mining

Pipelines routed within 1 km of active deep mining may be affected by subsidence resulting from mineral extraction. The determination of protective or remedial measures will normally require expert assistance, which can be arranged through Wales & West Utilities.

8.8 Landfilling

The creation of slopes outside of the pipeline easements may promote instability within the vicinity of the pipeline. An assessment should therefore be carried out, by Wales & West Utilities, on the effect of any landfilling activity within 100 metres of a pipeline. The assessment is particularly important if landfilling operations are taking place on a slope in which the pipeline is routed.

8.9 Pressure Testing

Hydraulic pressure testing will not be permitted within 8 metres of the pipeline unless suitable precautions have been taken against the effects of a burst. These precautions should include limiting of the design factor to 0.3 for the third party pipeline for a distance of 6 metres either side of the Wales & West Utilities pipeline, and the use of mill tested pipe or sleeving.

8.10 Seismic Surveys

Wales & West Utilities must be advised of any seismic surveying work in the vicinity of pipeline that will result in Wales & West Utilities' pipeline being subjected to peak particle velocities in excess of 50 mm/sec. In any event the ground vibration near to the pipeline shall also be monitored by the contractor whilst the survey work is being carried out.

Where the peak particle velocity is predicted to exceed 50 mm/sec, the ground vibration should be monitored by the contractor and the results available to the Wales & West Utilities Responsible person at their request.

8.11 Hot Work

The Wales & West Utilities responsible person on site should supervise all welding, burning or other 'hot work' that takes place within the easement.

8.12 Wind Turbines

Wales & West Utilities must be advised of any planned development of wind turbines in the vicinity of an above 2 bar gas pipelines to ensure the development does not impact on the future safe operation of the pipeline. Industry guidance states that any wind turbine must be sited no closer than 1.5 times the proposed height of the turbine mast away from the nearest edge of the pipeline.

9. BACKFILLING

Third parties must provide Wales & West Utilities with 7 days' notice, or shorter notice only if agreed with Wales & West Utilities, of the intent to backfill over, under or alongside the pipeline. This requirement should also apply to any backfilling operations alongside the pipeline within 3 metres of the pipeline. Any damage to the pipeline or coating must be reported to the Wales & West Utilities responsible person in order that damage can be assessed and repairs can be carried out.

Minor damage to pipe coating and damage to test leads will normally be repaired by Wales & West Utilities free of charge.

No backfilling should be undertaken without Wales & West Utilities agreement to proceed. When backfilling, the pipeline should be surrounded by at least 300mm of soft fill (i.e. stone dust) containing no stones, bricks, lumps of concrete, etc. The Wales & West Utilities responsible person will stipulate the necessary consolidation requirements.

If the pipeline has been backfilled without the knowledge of the Wales & West Utilities responsible person then he will require the material to be re-excavated in order to enable the condition of the pipeline coating to be confirmed.

10. ACTION IN THE CASE OF DAMAGE TO THE PIPELINE

If the Wales & West Utilities pipeline is damaged, even slightly, and even if no gas leak has occurred then the following precautions must be taken immediately:-

- ◆ Shut down all plant and machinery and extinguish any potential sources of ignition.
- ◆ Evacuate all personnel from the vicinity of the pipeline.
- ◆ Notify Wales & West Utilities using the free 24 hour emergency telephone number **0800 111 999**^{*1}
- ◆ Notify the Wales & West Utilities responsible person or his office immediately using the contact telephone number provided.
- ◆ Ensure no one approaches the pipeline.
- ◆ Do not try to stop any leak.

¹ * All calls are recorded and may be monitored

11. REFERENCES

NRSAWA	New Roads & Street Works Act
HS(G)47	Avoiding Danger from Underground Services
IGE/SR/18	Safe Working Practices to Ensure the Integrity of Gas Pipelines and Associated Installations
T/PR/P/18	Working on Pipelines Containing Defective Girth Welds or Girth Welds of Unknown Quality
CIS08	Safety in Excavations (HSE document)

12. GLOSSARY OF TERMS

Contractor:	the person, firm or company with whom Wales & West Utilities enters into a contract to which this specification applies, including the Contractor's personal representatives, successors and permitted assigns.
Easement:	Easements are negotiated legal entitlements between Wales & West Utilities and landowner and allow Wales & West Utilities to lay, operate and maintain pipelines within the easement strip. Easement strips may vary in width typically between 6 and 25 metres depending on the diameter and pressure of the pipeline. Consult Wales & West Utilities for details of the extent of the easement strip where work is intended.
Liquefaction:	Liquefaction is a phenomenon in which the strength and stiffness of the soil is reduced by earthquake shaking or other rapid loading. Liquefaction occurs in saturated soils, that is, soils in which the space between individual particles is completely filled with water. When liquefaction occurs, the strength of the soil decreases and the ability of the soil to support pipelines or other components is reduced.
Pearson Survey:	a survey used for locating coating defects on buried pipeline services.
DCVG Survey:	Direct Current Voltage Gradient, a survey for locating and grading coating defects on buried pipeline service
Promoter of new works:	the person or persons, firm, company or authority for whom new services, structures or other works in the vicinity of existing Wales & West Utilities pipelines and associated installations operating above 7 bar gauge are being undertaken.
Wales & West Utilities responsible person:	the person or persons appointed by Wales & West Utilities with the competencies required to act as the Wales & West Utilities representative for the purpose of the managing the particular activity.
Wayleave:	general term which is considered equivalent to 'easement' in this document.

APPENDIX A

SITE DOCUMENT CONTROL FORM - SAMPLE

Emergency Telephone No. **0800 111 999***
Plant Protection Telephone No. **02920278912**

SITE DOCUMENT CONTROL FORM

Activity Reference:

Activity Location:

Site Manager:

(name & telephone number)

Wales & West Utilities Contact:

(name & telephone number)

The following documents were issued to *(individual's name)*

..... **of**
(company name and address)

.....
by *(Wales & West Utilities representative)*

..... **on**
(date).....:-

Documents:-

(List of documents)

Signed : *(by the recipient)*

Date of signature :

SITE DOCUMENT CONTROL FORM

Emergency Telephone No. 0800 111 999*

Plant Protection Telephone No. 02920 278912

SITE DOCUMENT CONTROL FORM

Activity Reference:

Activity Location:

Site Manager:

(name & telephone number)

Wales & West Utilities Contact:

(name & telephone number)

The following documents were issued to (Individuals Name)

.....**of**
(company name and address)

by *(Wales and West Utilities representative)*

.....**on**
(date) :-

Documents:-

Signed :

Date of signature :

ENDNOTE

Comments

Comments and queries regarding the technical content of this document should be directed to:

Asset Management & HSE Dept
Wales & West Utilities Ltd
Wales & West House
Spooner Close
Celtic Springs
Coedkernew
Newport
NP10 8FZ.

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Wales & West Utilities Limited

General Conditions to be observed for the Protection of Apparatus and the Prevention of Disruption to Gas Supplies.

General conditions affecting the design, construction or maintenance of services and/or structures or other works in the vicinity of Wales & West Utilities (WWU) plant, pipelines and associated installations:

These general conditions apply only to the gas apparatus and pipes operated by WWU. It is possible that there may be other gas transporters with apparatus in the vicinity, therefore you should ensure that you have made enquiries of them and have complied with their requirements.

1. GRAPHIC REPRESENTATION OF GAS MAINS

Any plans supplied or marked up by WWU will indicate the **APPROXIMATE** location of its apparatus. This information is provided as a general guide only; its accuracy cannot be guaranteed and is given without obligation or warranty. Service pipes are not shown but their presence should be anticipated. No liability whatsoever is accepted by WWU, its agents or servants for any error, omission, discrepancy or deviation. Plans on site should be current, i.e. no older than 28 days from the date of issue. Gas pipes owned by other Gas Transporters, or otherwise privately owned, may be present in this area (pink areas indicated on our plans). Information with regard to such pipes should be obtained from the relevant owners.

Should you require assistance on site locating WWU apparatus, please contact our Plant Protection Team on **02920 278912**.

2. METHODS OF WORKING

The following methods of work shall not normally be permitted within the limits of distance indicated (relative to the established pipe position). Any variances must have consent from WWU before works commence on site:

Mechanical Excavation	3m (1m for low pressure mains)	Hydraulic Testing	8 m
Piling / Pile removing / Boring	15m	Welding or other hot works*	15m
Directional Drill Operations	15m	Explosives	250m

* NOTE: Welding or other hot works involving naked flames shall be carried out at a safe distance to the satisfaction of a WWU Engineer. A check should be made prior to the commencement of works, to ensure a gas free atmosphere exists. It is also necessary to monitor the atmosphere at regular intervals for the duration of the works. In no case shall such activities take place in any Wales & West Utilities Easement without the written consent and in the presence of a WWU representative.

WWU must be consulted prior to carrying out any excavation work within **10m** of any above or below ground gas installations or pipeline. No excavation works may commence within **50m** of a High Pressure or Very High Pressure Pipeline unless the pipeline has been located by tracing and its precise route identified.

In addition to the above methods of working, WWU must be contacted prior to any External Wall Installation (EWI) schemes, proposed solar farms and wind turbine installations.

No work shall be undertaken near, nor heavy plant or equipment moved over, any gas pipeline or apparatus until all of the conditions specified by WWU have been complied with.

Where WWU have apparatus in the vicinity of your work, any damage to it could have serious consequences. In view of this and in the interests of safety, a meeting should be arranged before the commencement of work on site between WWU representatives, representatives of the promoting authority, the contractors and any other interested parties. At this meeting the suggested program of site works and plant safety should be discussed. It is essential that this meeting is convened well in advance of commencement on site. Access to WWU plant and facilities for inspection by WWU staff must not be affected. Where formal consent has been given, **A MINIMUM OF SEVEN DAYS NOTICE IS REQUIRED** before carrying out work in WWU easements, or the appropriate notice under the New Roads & Street Works Act (NRSWA) where existing plant is situated within the public highway.

Further guidance can also be sought from the document **HS(G)47 – Avoiding Danger from Underground Services** from the HSE website.

3. PROXIMITY OF OTHER PLANT

A minimum clearance of **600 millimetres (mm)** should be allowed between all plant being installed and an existing gas main operating above 2 bar medium pressure (MP), whether the adjacent plant is parallel to or crossing the gas pipe. For mains operating at MP or below, this distance can be reduced to 300mm. **NO APPARATUS SHOULD BE LAID OVER AND ALONG THE LINE OF A GAS PIPE, IRRESPECTIVE OF CLEARANCE.**

No manhole or chamber shall be built over or around a gas pipe and no work should be carried out which results in a reduction of cover or protection over a pipe without consultation with and the agreement of WWU staff.

4. PROTECTION

Where any works cross or run in close proximity to WWU apparatus, periodic visits must be made by a WWU engineer. His requests for protection or support to the apparatus shall be immediately observed.

Suitably designed crossing points are to be constructed to the satisfaction of a WWU Engineer. These crossing points shall be clearly indicated by the erection of bunting and crossings at other places should be prevented.

Backfill material adjacent to WWU apparatus shall be soft fill or sand, containing no stones, bricks, or lumps of concrete etc., placed to a minimum 150mm around the mains and is to be well compacted by hand. No power consolidation shall take place above the main until 300mm of soft fill has been compacted by hand.

Wales & West Utilities Limited

5. DAMAGE TO COATINGS

Where a gas pipe is coated with special wrapping and this is damaged, even to a minor extent, WWU must be notified so that repairs can be made to prevent future corrosion and subsequent leakage. **WHERE MINOR DAMAGE TO COATING IS REPORTED TO WWU PRIOR TO BACKFILL, THE NECESSARY REPAIR WILL BE MADE FREE OF CHARGE.**

6. CATHODIC PROTECTION

Where WWU apparatus is cathodically protected either by sacrificial anode or impressed current systems and where new apparatus is to be laid and is to be similarly protected, WWU will require to carry out interaction tests to determine whether its own system is adversely affected. The cost of any mutually agreed remedial action will be recharged to the authority installing the new apparatus. If any bond wires, test leads etc., used in connection with cathodic protection systems are damaged or found to be in poor condition, broken or disconnected, WWU must be notified prior to backfilling so that a repair can be made.

7. HOT WORKS

Even when a gas free atmosphere exists care must be taken when carrying out hot works in close proximity to gas plant in order to ensure that no damage occurs. Particular care must be taken to avoid damage by heat or naked flames to plastic gas pipes or to the protective coatings on other pipes.

8. DEMOLITION

Live gas services must be disconnected **PRIOR** to demolishing any property, arrangements must be made for WWU to check for the presence of any live gas services.

9. TREE PLANTING

WWU must be contacted prior to all tree-planting works above or near our apparatus. Further information can then be made available.

10. DEEP EXCAVATIONS

Any work involving deep excavations (1.5m or more) will be subject to the "Model Consultative Procedure for Pipeline Construction involving Deep Excavations". This may require the diversion of WWU apparatus prior to the commencement of your works. Detailed plans and cross sections will be required in order to determine the effect of these works on WWU apparatus.

11. RENEWABLE ENERGY INSTALLATIONS

Wind Turbines – WWU must be advised of any planned development of wind turbines in the vicinity of an above 2 bar gas pipelines to ensure the development does not impact on the future safe operation of the pipeline. Industry guidance states that any wind turbine must be sited no closer than 1.5 times the proposed height of the turbine mast away from the nearest edge of the pipeline.

Solar Farms – WWU must be contacted regarding planned solar farms being considered in the vicinity of WWU gas pipelines.

EWI – WWU must be contacted regarding any EWI scheme to ensure the scheme does not impact upon WWU's apparatus.

12. LEAKAGE FROM GAS MAINS OR SERVICES

If damage or leakage is caused or an escape of gas is smelt or suspected the following action should be taken at once:

- Remove all personnel from the immediate vicinity of the escape.
- Inform the 24hr Gas Emergency Service on **0800 111 999**
- Prevent any approach by the public, prohibit smoking, and extinguish all naked flames or other sources of ignition for at least 15 metres from the leakage. Do not operate any electrical switches in the vicinity of the escape.
- Assist gas personnel, Police and/or Fire Services as requested.

**IN THE EVENT OF A LEAK, OBSERVE THE ABOVE BUT DO NOT ATTEMPT TO SEAL THE LEAK
REMEMBER - IF IN DOUBT; SEEK ADVICE FROM WWU**

13. BUILDING PROXIMITIES

There are minimum proximity distances for buildings from WWU mains depending on both the operating pressure and the material of the main. Advice should be sought from WWU prior to building works taking place to confirm these distances. For High Pressure pipelines you must seek further guidance from the HSE and Local Authority Planning team regarding their PADHI distances regarding building proximities as these may be in addition to WWU proximity distances for a pipeline.

Temporary buildings should not be placed above any gas pipe or within 3.0 metres of mains operating above 75mbar (medium, intermediate and high pressure mains) during construction activities and in no circumstances should permanent structures be built over any pipe transporting gas.

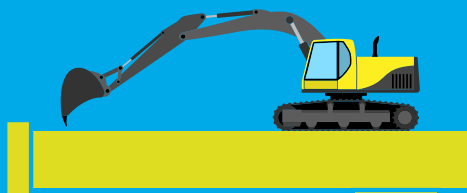
14. SITE RESPONSIBILITIES

All costs incurred by WWU for the repair of direct or consequential damage to gas plant will be rechargeable (with the exception of paragraph 5). WWU reserves the right to divert any affected apparatus or alternatively specify suitable protection of its apparatus. If proved necessary during the course of site works, the cost of which will be chargeable.

The above requirements do not relieve you of the responsibility of taking all precautions necessary to safeguard the Company's plant and to avoid risk to persons and property. The persons for whom the works are being undertaken, their servants, agents and contractors shall indemnify WWU servants, agents and contractors against any loss, damage, expenses, claims and actions incurred or brought against Wales & West Utilities, its servants, agents and contractors in consequence of the provision of these works and activities associated therewith or ancillary thereto.

KEY TO MAPS

LP	Low Pressure	CI	Cast Iron
MP	Medium Pressure	SI	Spun Iron
IP	Intermediate Pressure	DI	Ductile Iron
HP	High Pressure	PE	Polyethylene
		ST	Steel



Every day, underground gas pipes get damaged by people digging without knowing what's below. This can be catastrophic. It might cause serious injury to you and others around you. The costs of repair, fines and fees can be huge. Your project will be delayed and your reputation damaged.

We have designed this leaflet to help you dig safely. And the first thing to do – long before you start work – is call us.

What's the number?
029 2027 8912



CARD POSITION (DO NOT PRINT)

We're here to
help



Dial
before
you dig

We need
10 days'
notice



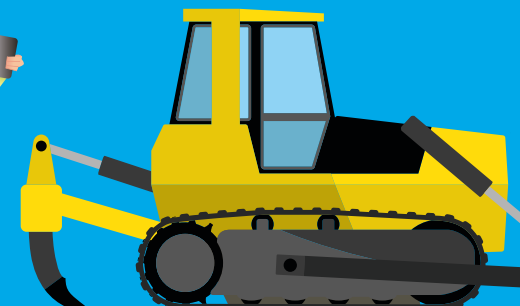
Need help or advice?

Call our **Plant Protection** team on
029 2027 8912
or email **dig@wwutilities.co.uk**



Smell gas?

Call the **Gas Emergency Service** on
0800 111 999.



dig@wwutilities.co.uk



029 2027 8912



www.wwutilities.co.uk



facebook.com/wwutilities



@WWUtilities



Dial
Investigate
Go ahead

**YOUR GAS EMERGENCY
AND PIPELINE SERVICE**



**WALES & WEST
UTILITIES**

Can you DIG it?

We bring the gas to homes and businesses across Wales and the south west of England. We invest money, time and effort every year to make sure our pipelines are protected – but the biggest danger to our network is you.



D is for Dial

Digging can be dangerous. Hit a gas pipe and you might cause a gas leak, a fire or explosion.

So phone us first on **029 2027 8912** or email **dig@wwwutilities.co.uk**

- You can find out where our pipes are.
- You need to give us 10 working days' notice before you start working.



I is for Investigate

It's the only way to stay safe

- Before you start work, you must get a copy of our up-to-date gas plans and General Conditions and keep them with you on site.
- Use our online mapping service to find the mains pipes under your land.
- Working near a medium-, or intermediate- or high-pressure gas pipe? You might need a site visit – call us so we can arrange it.
- Plan ahead – we need at least 10 days' notice for a site visit.
- You'll also need our publication 'SSW22 Safe working in the vicinity of high-pressure pipelines and associated installations'.
- Remember, you can't work on a Wales & West Utilities wayleave or easement (land which we have rights over to maintain our gas network) without written permission.
- And you can't work near or move heavy equipment over any gas pipeline until all our conditions have been met and we agree your method of working.
- Watch the video on our website to find out more.



G is for Go ahead

- Make sure you have our up-to-date gas plans on site.
- Need extra advice? Call our Plant Protection team on **029 2027 8912** or email **dig@wwwutilities.co.uk**
- Use cable- and pipe-locating devices.
- Use safe digging practices, taking every precaution to avoid damaging gas pipes, damaging yourself and damaging your bank balance. You will be billed for any costs if something goes wrong.
- If in doubt, phone us again. We're happy to help.

We need
10 days'
notice



Smell gas?

Our Gas Emergency Service is on call 24 hours a day, seven days a week, 365 days a year.

If you cause a gas leak, or think the network might be leaking, call the Gas Emergency Service immediately on **0800 111 999**.

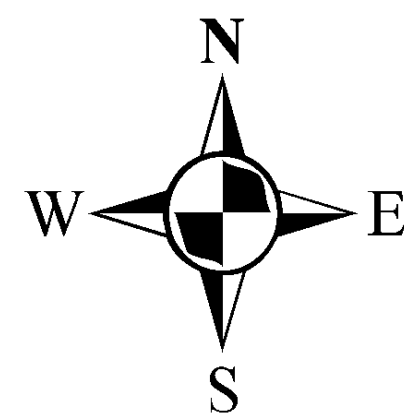
- Get everyone away from the leak.
- Ask everyone in nearby buildings to leave until we're sure it's safe.
- Put out all naked flames and other sources of ignition and make sure no one smokes within 15 metres of the leak.
- Don't try to fix the leak by filling the hole, as gas may enter buildings.
- Don't try to operate any valves.
- Don't let anyone go near the leak.
- Help our engineers, the police or fire services if they ask.

WATER & SEWER



Dŵr Cymru
Welsh Water

Myrdd Maen - Newbridge, Abercarn,
Caerphilly



LEGEND

Clean network:			
Sluice valve		Stop tap	
Pressure reducing valve		Water Treatment Works	
Meter		Water Pumping Station	
Bulk meter		Existing main	
Hydrant		Non-operational main	
Cap end		Raw Water	
Air valve			
NB: Water main symbol colour indicates the type.			
LIGHT BLUE - Trunk			
DARK BLUE - Distribution			
YELLOW - Raw Water			

Notes:

Whilst every reasonable effort has been taken to correctly record the pipe material of DCWW assets, there is a possibility that in some cases, pipe material (other than Asbestos Cement or Pitch Fibre (PF)) may be found to be asbestos cement (AC) or Pitch Fibre (PF). It is therefore advisable that the possible presence of AC or PF pipes be anticipated and considered as part of any risk assessment prior to excavation

Dŵr Cymru Cylhygdydd (the Company) gives this information as to the position of its underground apparatus by way of general guidance only and on the strict understanding that it is based on the best information available and is not warranted as to its completeness or accuracy. It is the responsibility of the user to ensure that the information is correct and to ensure that the information is not used for any purpose other than that for which it is provided. The user of this information is advised to ensure that the information is correct and to ensure that the information is not used for any purpose other than that for which it is provided. The user of this information is advised to ensure that the information is correct and to ensure that the information is not used for any purpose other than that for which it is provided.

Service pipes are not generally shown but their presence should be anticipated.

EXACT LOCATIONS OF ALL APPARATUS TO BE DETERMINED ON SITE.

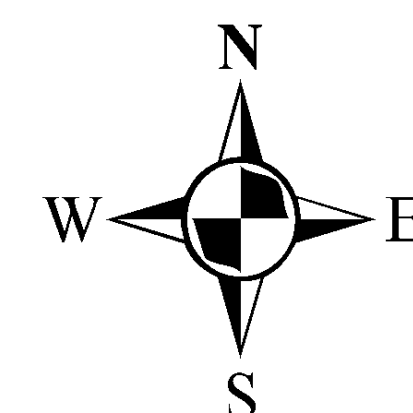
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Map Ref: 323310,196498
Map scale: 1:4950
Printed by: Elan O'Donovan
Printed on: 10 Aug 2021



Dŵr Cymru
Welsh Water

Mynydd Maen - Newbridge, Abercarn,
Caerphilly



LEGEND(Representative of most common features)

- Waste network:**
- | | | | |
|--|-------------------------|--|---|
| | Foul chamber | | Outfall |
| | Surface water chamber | | Lamp hole |
| | Combined chamber | | Storm Overflow |
| | Combined sewer overflow | | Rising main |
| | Special purpose chamber | | Gravity sewer |
| | Treatment works | | Private sewer |
| | Pumping station | | Private sewer subject to Sect. 104 adoption agreement |
- NB: Sewer symbol colour indicates the type.
- | | | | |
|--------|--|--|------------------------|
| RED | - Combined | | Private Sewer Transfer |
| GREEN | - Surface Water | | Lateral Drain |
| BROWN | - Foul | | Inspection Chamber |
| Purple | - Former S24 sewers (for indicative purposes only) | | |

Notes:

Whilst every reasonable effort has been taken to correctly record the pipe material of DCWW assets, there is a possibility that in some cases, pipe material (other than Asbestos Cement or Pitch Fibre (PF)) may be found to be asbestos cement (AC) or Pitch Fibre (PF). It is therefore advisable that the possible presence of AC or PF pipes be anticipated and considered as part of any risk assessment prior to excavation

Dŵr Cymru Cyllyngdy (the Company) gives this information as to the position of the underground apparatus by way of general guidance only and on the strict understanding that it is based on the best information available and is to be used as a guide only. The onus of locating apparatus before carrying out any excavations rests entirely on you. The information which is supplied by the Company is to be used in accordance with statutory requirements of sections 198 and 199 of the Water Industry Act 1991 which is based upon the best information available and, in particular, but without prejudice to the generality of this, it should be noted that the records that are available to the Company may not disclose the existence of a water, main, service pipe, sewer, lateral drain or disposal main and any associated apparatus laid before 1 September 1990, or, if they do, the particulars thereof including their position underground may not be accurate. It must be understood that the furnishing of this information is entirely without prejudice to the provision of the New Roads and Street Works Act 1991 and the Company's right to be compensated for any damage to be repaired.

Service pipes are not generally shown but their presence should be anticipated.

EXACT LOCATIONS OF ALL APPARATUS TO BE DETERMINED ON SITE.

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Map Ref: 323310,196502
Map scale: 1:4950
Printed by: Elan O'Donovan
Printed on: 10 Aug 2021

BT

Our Ref: Ref shown on map

email: nnhc@openreach.co.uk

Date of issue shown on map

Dear Customer,

NR & SW ACT 1991 – PROPOSED WORKS AT:

Prior to commencement of work: for free onsite guidance and accurate up to date location of BT plant please contact our Plant Protection Service by the following methods

Email Dial before you dig CBYD@openreach.co.uk

Visit the website www.openreach.co.uk/cbyd

Thank you for your request of describing the above proposals.

Enclosed are copies of our drawing marked up to show the approximate locations of BT apparatus which is present in the immediate vicinity of your works. It is intended for general guidance only. No guarantee is given of its accuracy.

It should not be relied upon in the event of excavations or other works made near to British Telecommunications plc apparatus which may exist at various depths and may deviate from the marked route.

To avoid damage it is recommended that mechanical excavators or borers are not used within 600mm of British Telecommunications plc plant. If scaffolding is erected, please ensure that our equipment is not enclosed, blocked, covered or otherwise obstructed by the scaffolding.

In the event of BT apparatus being in the area of works we recommend that your plant/vehicle crossing is either resited, or apply for a budget estimate by submitting detailed plans to the above address, these will be forwarded to the appropriate department for their comments.

Please ensure you quote our reference on any future correspondence.

Yours faithfully,

Openreach Plant Maps Requested

NewSite Office (addresses can be found on [the New Developments contact page](#))

Dear Sir/Madam,

You have downloaded copies of our drawings marked up to show the approximate location of Openreach apparatus, which is present in the immediate vicinity of your works. It is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works made near to Openreach apparatus, which may, exist at various depths and may deviate, from the marked route.

To avoid damage it is recommended that mechanical excavators or borers are not used within 600mm of Openreach plant. Please ensure that our equipment is not enclosed, blocked, covered or otherwise obstructed by your plant. In the event of clearance not being adequate we anticipate that your plant is either resited, or an order is placed with Openreach for rearrangements of its plant. If there are any difficulties with the Map please email cbyd@openreach.co.uk

Please contact our Network Protection Service by Email on cbyd@openreach.co.uk giving four calendar weeks notice of your commencement date. This will provide you with on-site advice and a check of location for any Openreach apparatus.

Further to this, I hope the following points will assist you at the new development: -

Openreach has a licence obligation to provide service to any end customer requiring a connection. A Developer would not normally be charged for provision of service, our standard connection charges would apply to the end user when orders are placed with the communication provider of choice. However, should a Developer insist on an underground service in an area where Openreach plant is provided overhead, charges may be incurred.

When the Developer has obtained contract and planning permission Openreach would request a 'Clean', scaled Site Layout, Location Map and a covering letter be sent to the relevant newSite Office. We would particularly request that you give details of your programmed site start date and likely first occupancy date where possible. To obtain contact details of the newSite office covering the development area click on the URL below.

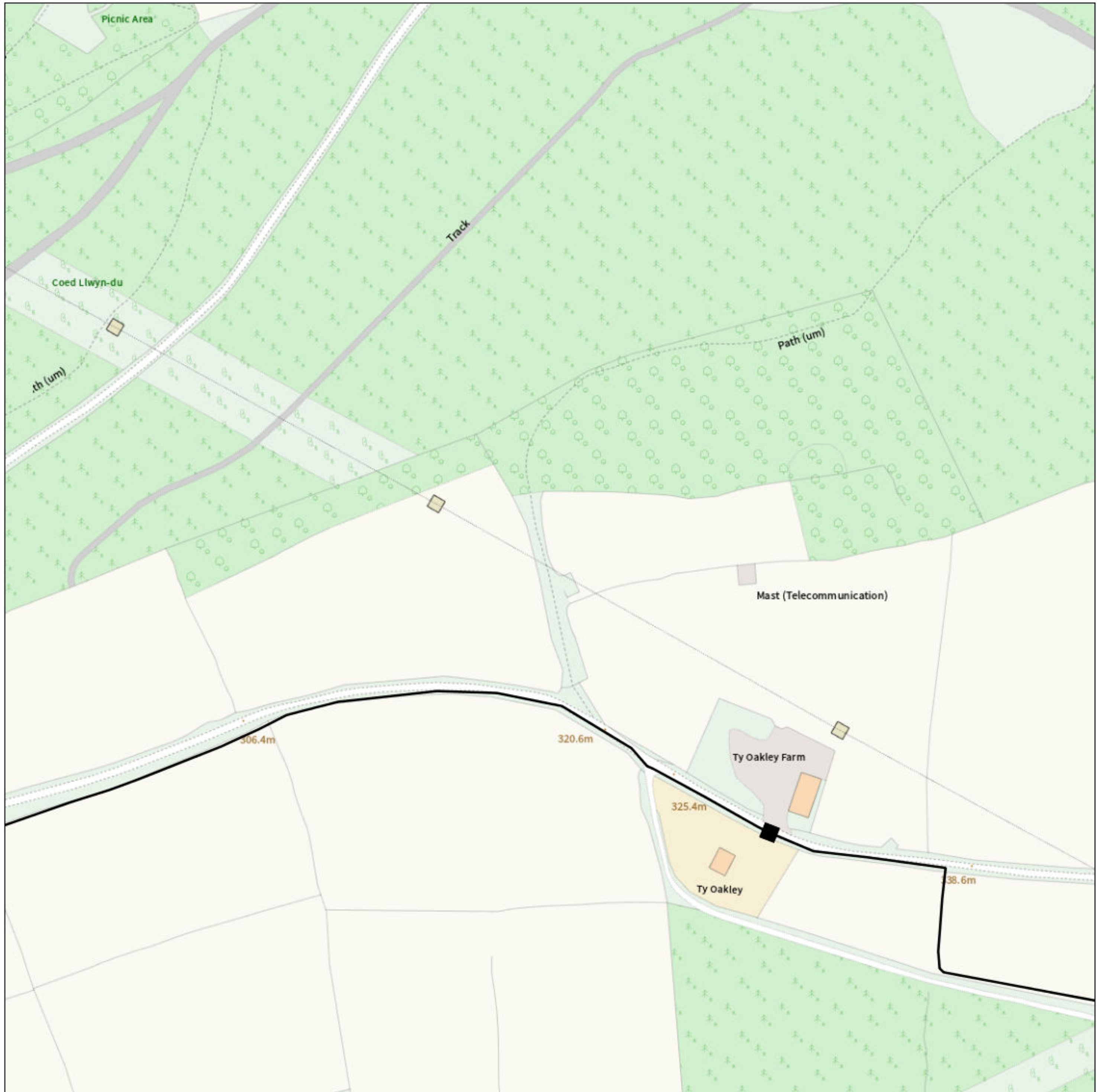
<http://www.newdevelopments-openreach.co.uk/ContactUs.aspx>

Where a development affects existing Openreach apparatus in the public highway, the cost of any necessary protection or diversionary works must be borne by the Developer. In this case where a budget estimate is required a Site Plan, Location Map and a covering letter should be forwarded to the Repayments Project Office. Please visit www.openreach.co.uk/alterationscontacts for contact details of the Repayments Office covering the development area.

Yours faithfully,

Openreach newSites

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	X	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : WVG02026Y

Map Reference : (centre) ST2275798465

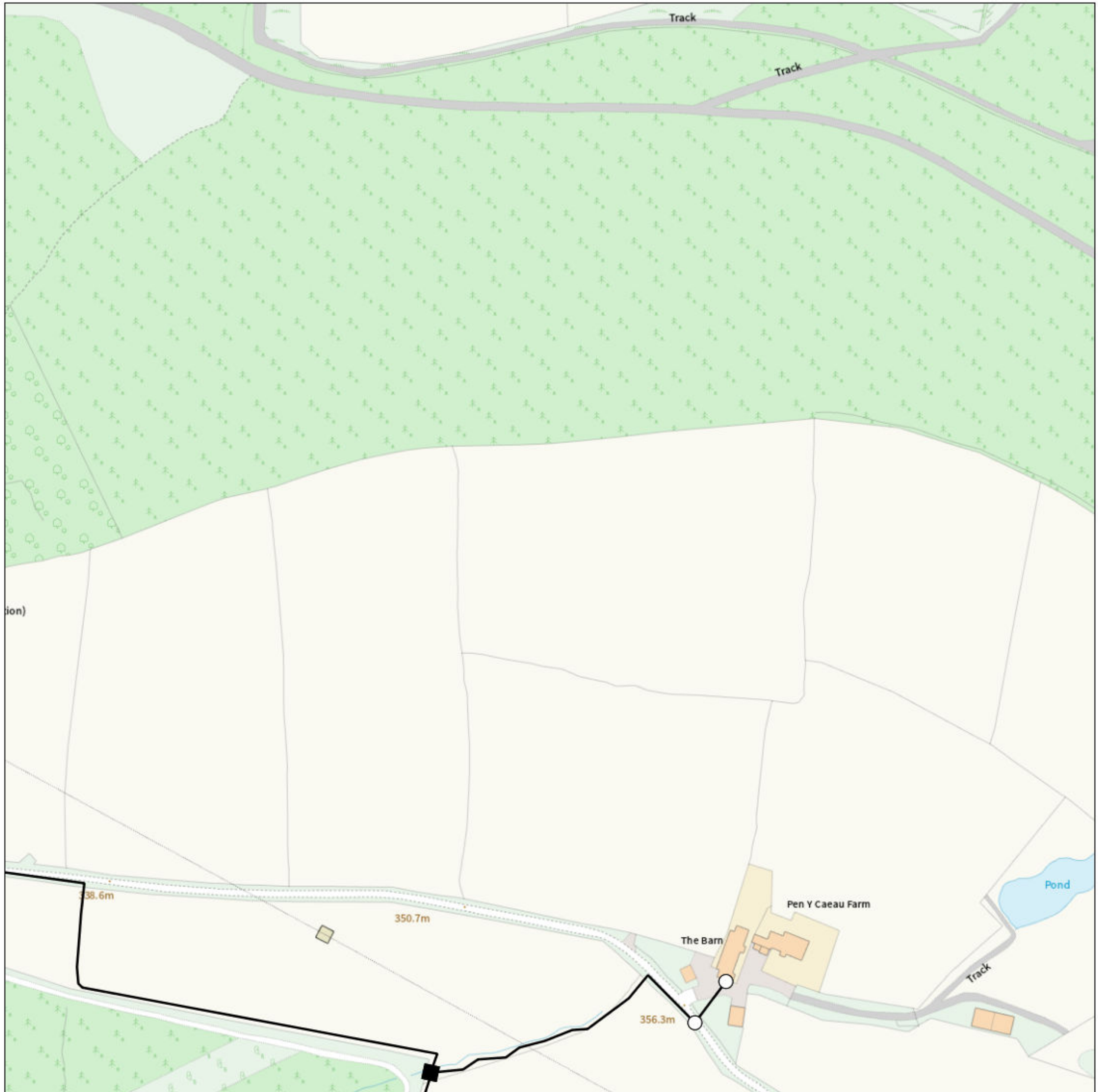
Easting/Northing : (centre) 322757,198465

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

KEY TO BT SYMBOLS			Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	Split Coupling		Built	
PCP			Duct Tee		Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			<p>Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.</p>			
Cabinet						

	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>
Power Cable				
Power Duct				N/A

BT Ref : IDX02022E

Map Reference : (centre) ST2315298472

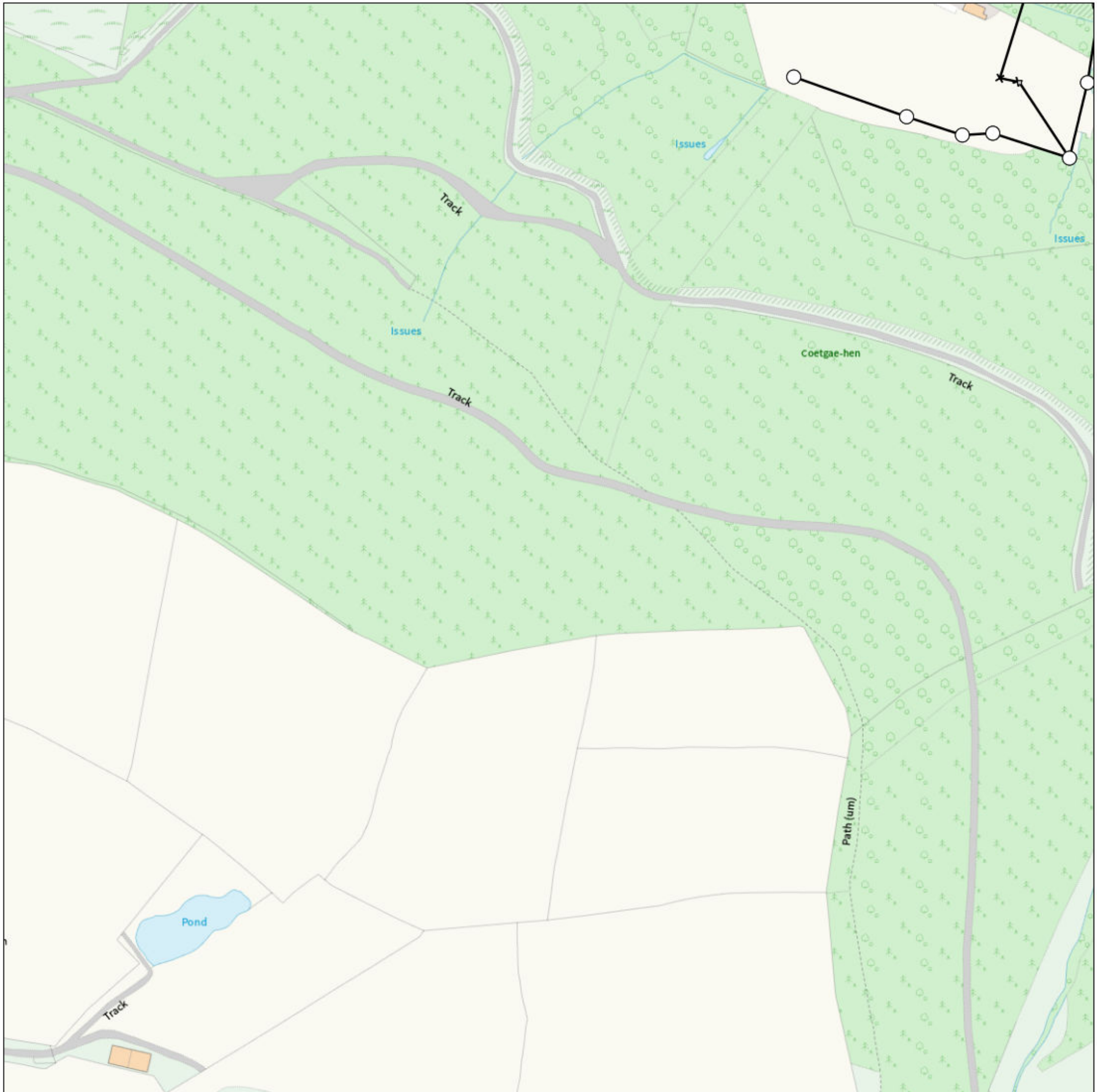
Easting/Northing : (centre) 323152,198472

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : UHL02025C

Map Reference : (centre) ST2354798489

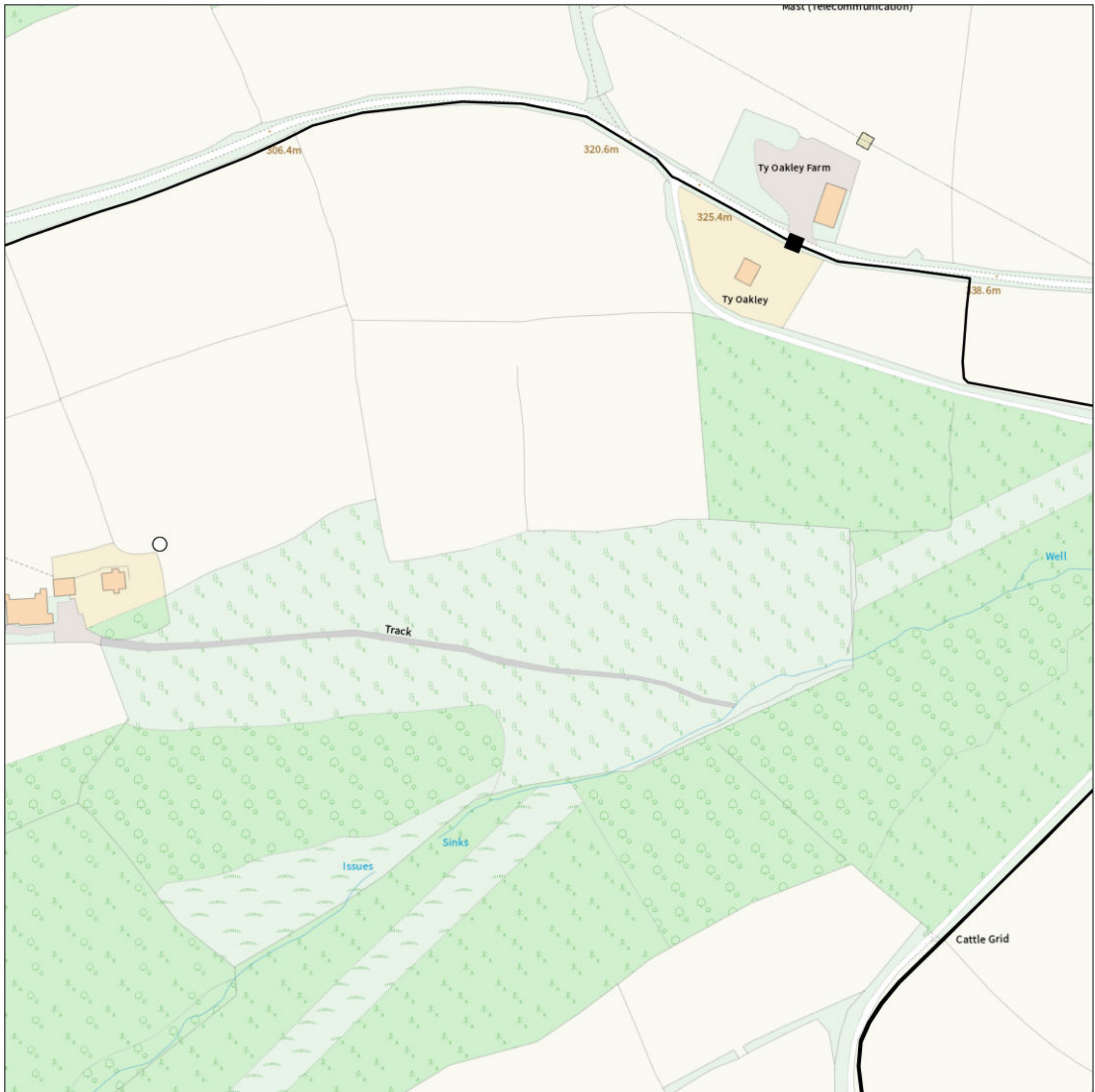
Easting/Northing : (centre) 323547,198489

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : TBO02025H

Map Reference : (centre) ST2274598194

Easting/Northing : (centre) 322745,198194

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP				Planned	
Pole				Inferred	
Box				Duct	
Manhole				Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : GJB02026J

Map Reference : (centre) ST2314698191

Easting/Northing : (centre) 323146,198191

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KEY TO BT SYMBOLS			Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	Split Coupling		Built	
PCP			Duct Tee		Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			<p>Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.</p>			
Cabinet						

	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>
Power Cable				
Power Duct				N/A

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BT Ref : AGM020390

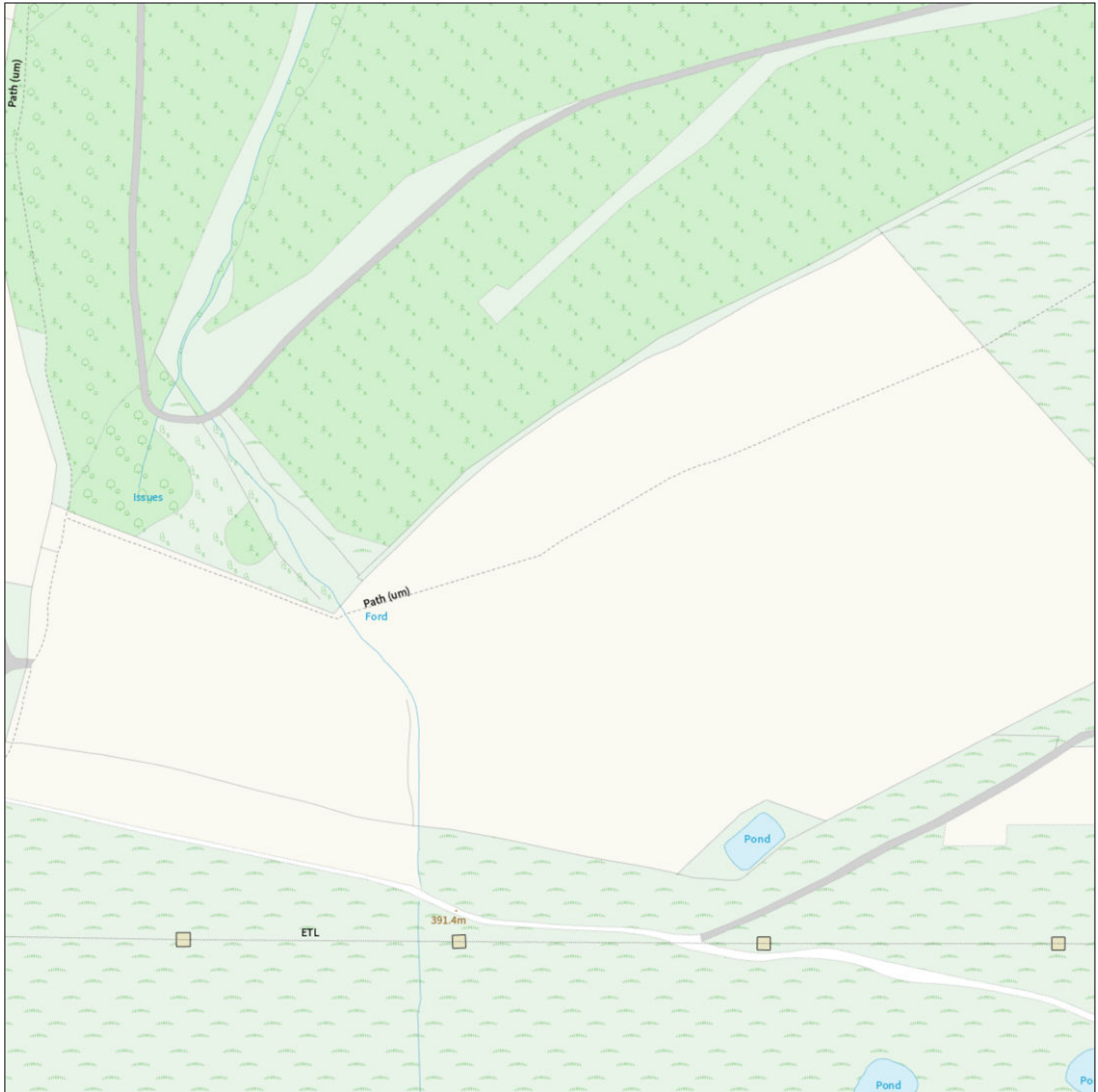
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Easting/Northing : (centre) 323538,198169

Issued : 26/07/2021 14:03:23

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP				Planned	
Pole				Inferred	
Box				Duct	
Manhole				Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : JQR02035R

Map Reference : (centre) ST2393098151

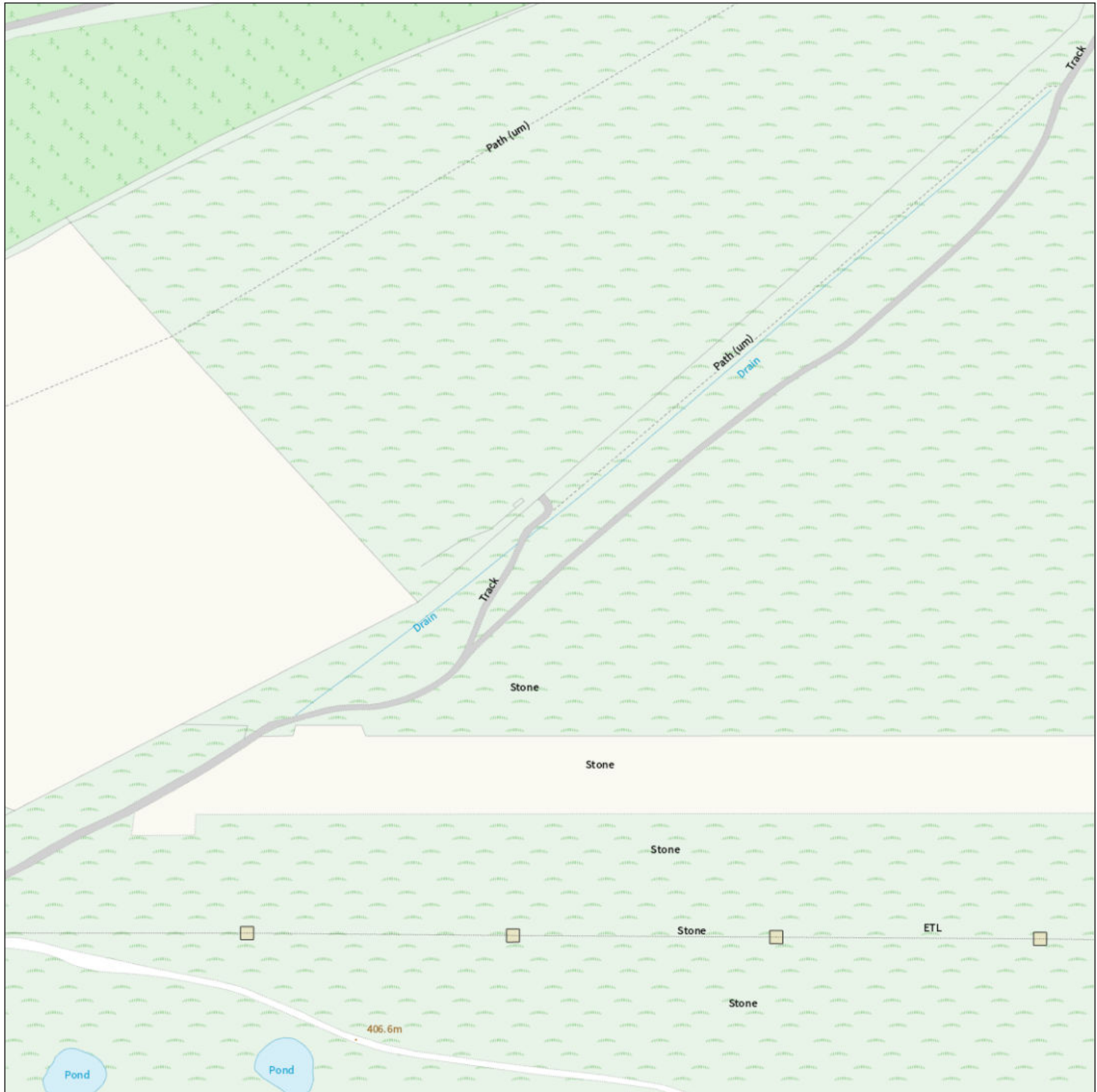
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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP				Planned	
Pole				Inferred	
Box				Duct	
Manhole				Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : IKA02034B

Map Reference : (centre) ST2430298146

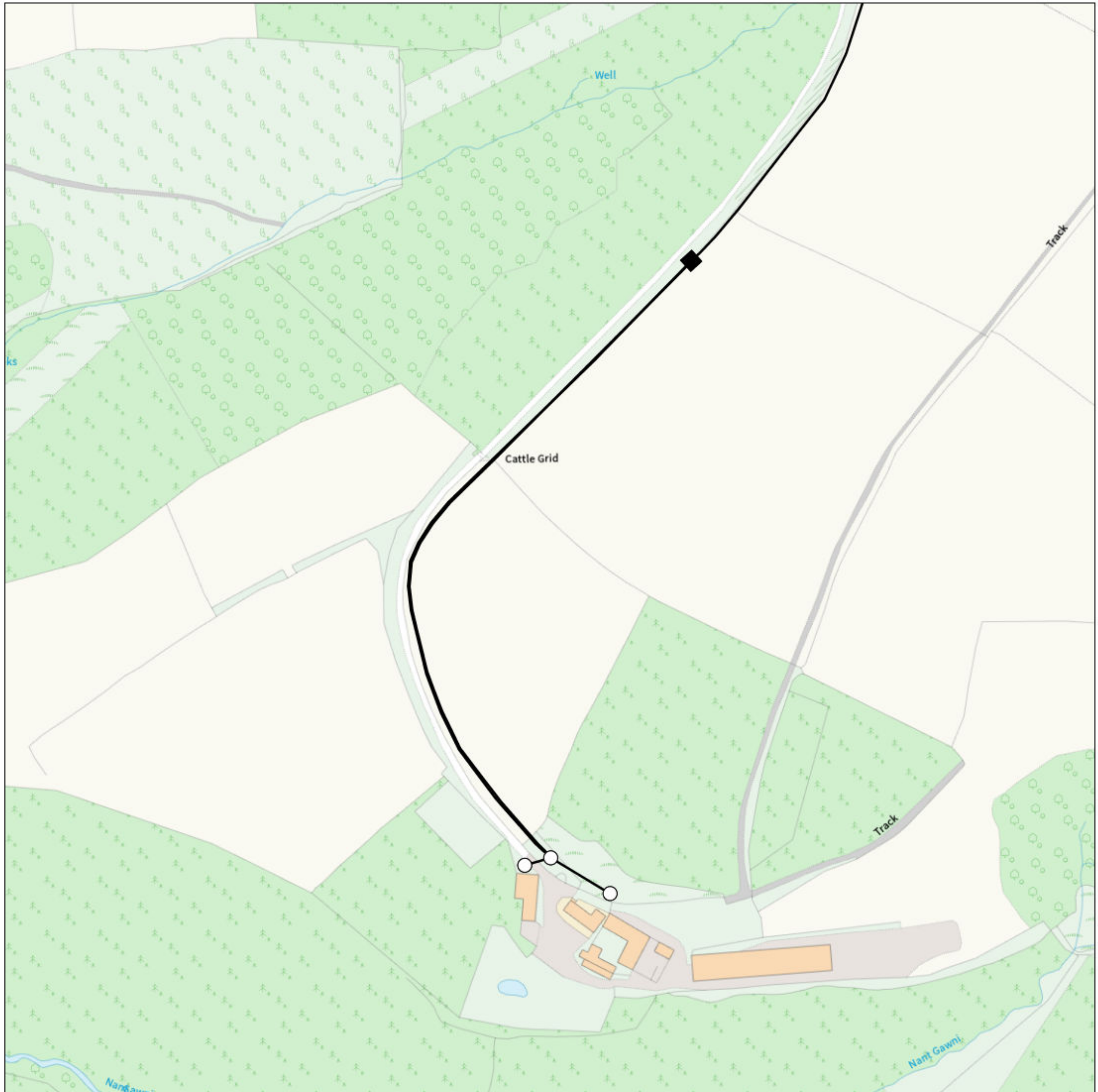
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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	▲	Planned
Pole			Duct Tee	■	Inferred
Box			Building	Ⓚ	Duct
Manhole			Kiosk	Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : TSB02032J

Map Reference : (centre) ST2295297974

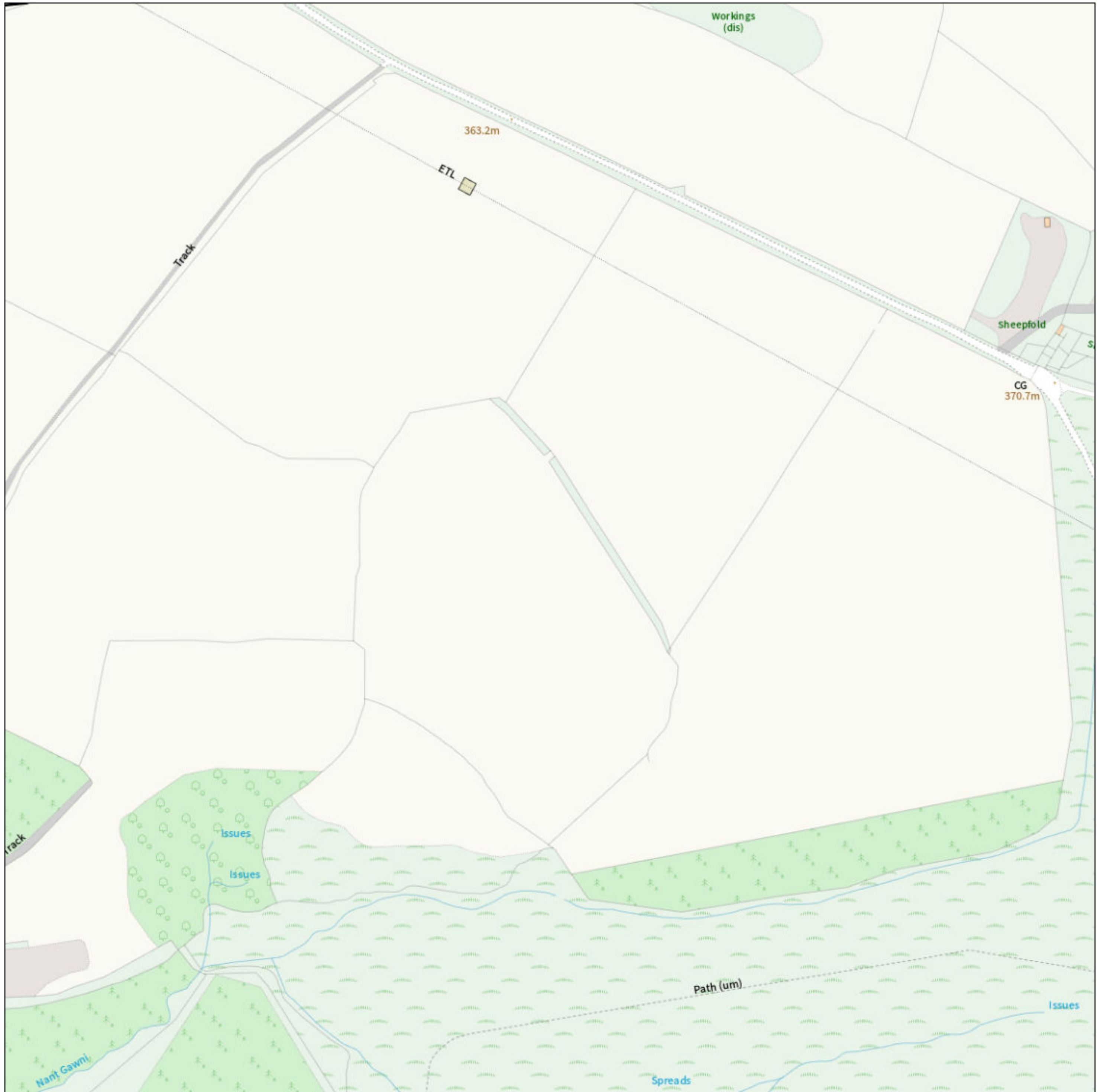
Easting/Northing : (centre) 322952,197974

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	▲	Planned
Pole			Duct Tee	■	Inferred
Box			Building	Ⓚ	Duct
Manhole			Kiosk	Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : JLR02032Z

Map Reference : (centre) ST2335297983

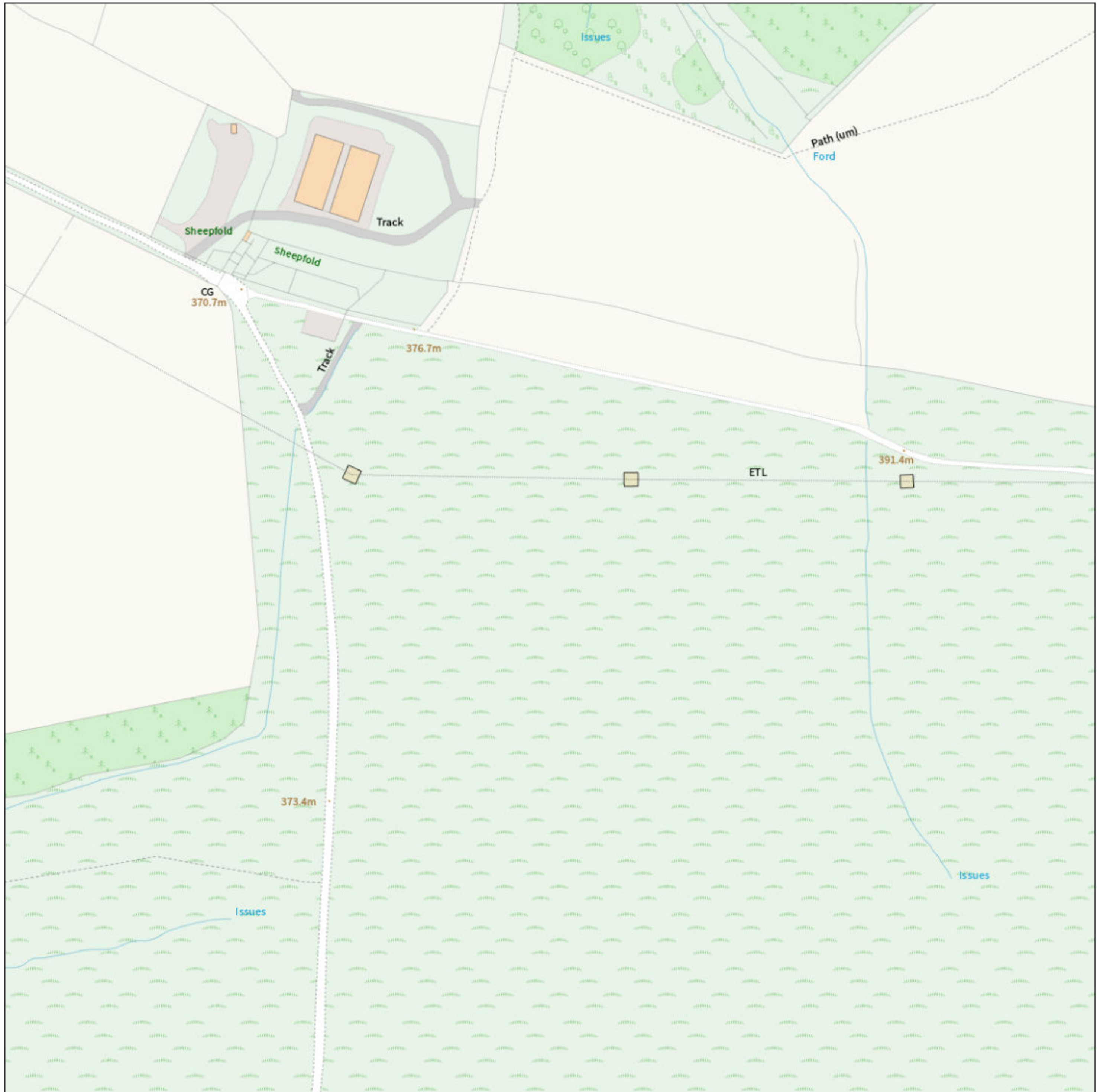
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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP					
Pole					
Box					
Manhole					
Cabinet					
		Split Coupling			
		Duct Tee			
		Building			
		Kiosk			
		Duct			
Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : JZG02042C

Map Reference : (centre) ST2372597940

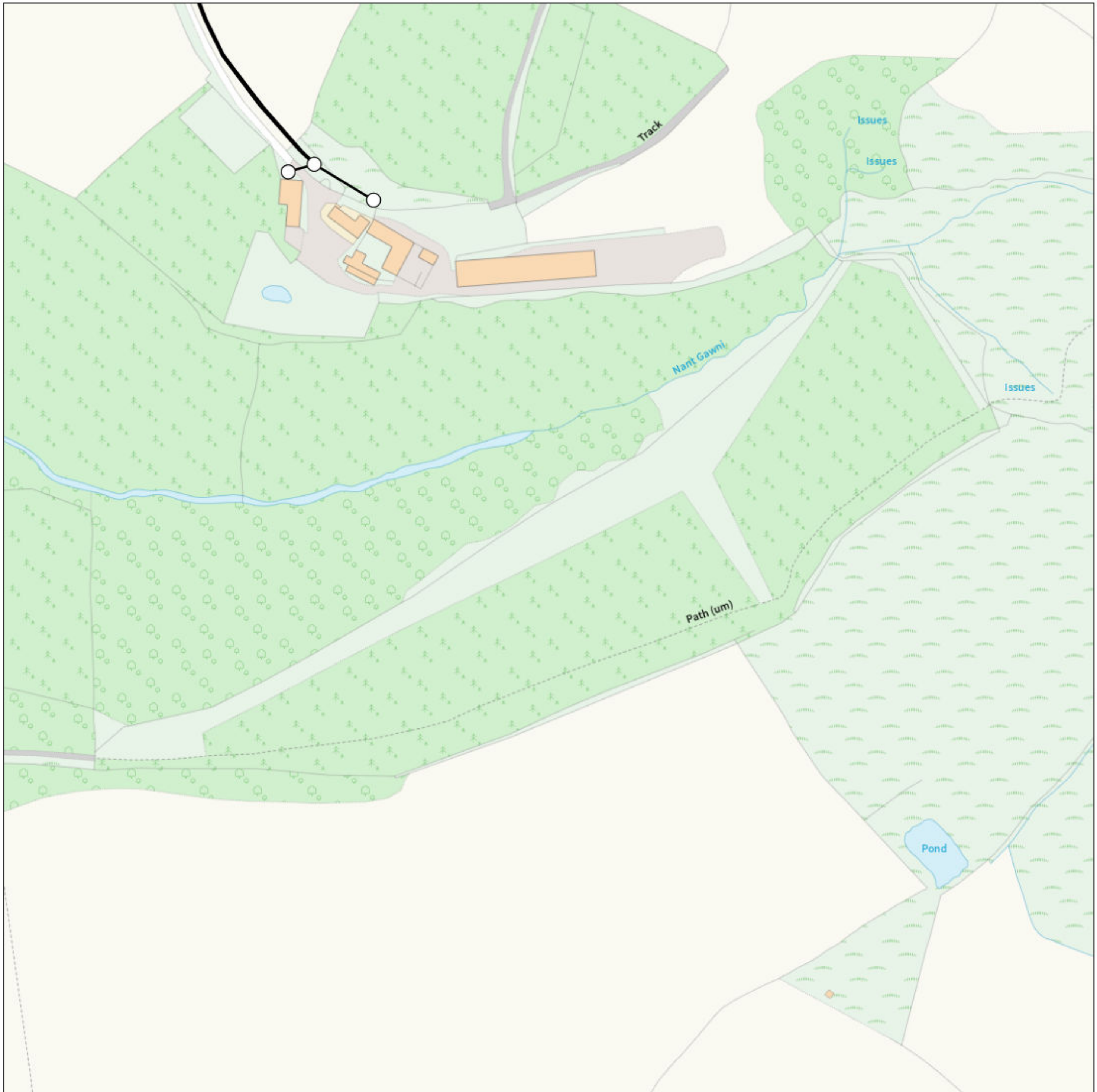
Easting/Northing : (centre) 323725,197940

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	Planned	
Pole			Duct Tee	Inferred	
Box			Building	Duct	
Manhole			Kiosk	Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : QDD02047P

Map Reference : (centre) ST2306097656

Easting/Northing : (centre) 323060,197656

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		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP				Planned	
Pole				Inferred	
Box				Duct	
Manhole				Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : DEG02049C

Map Reference : (centre) ST2310597305

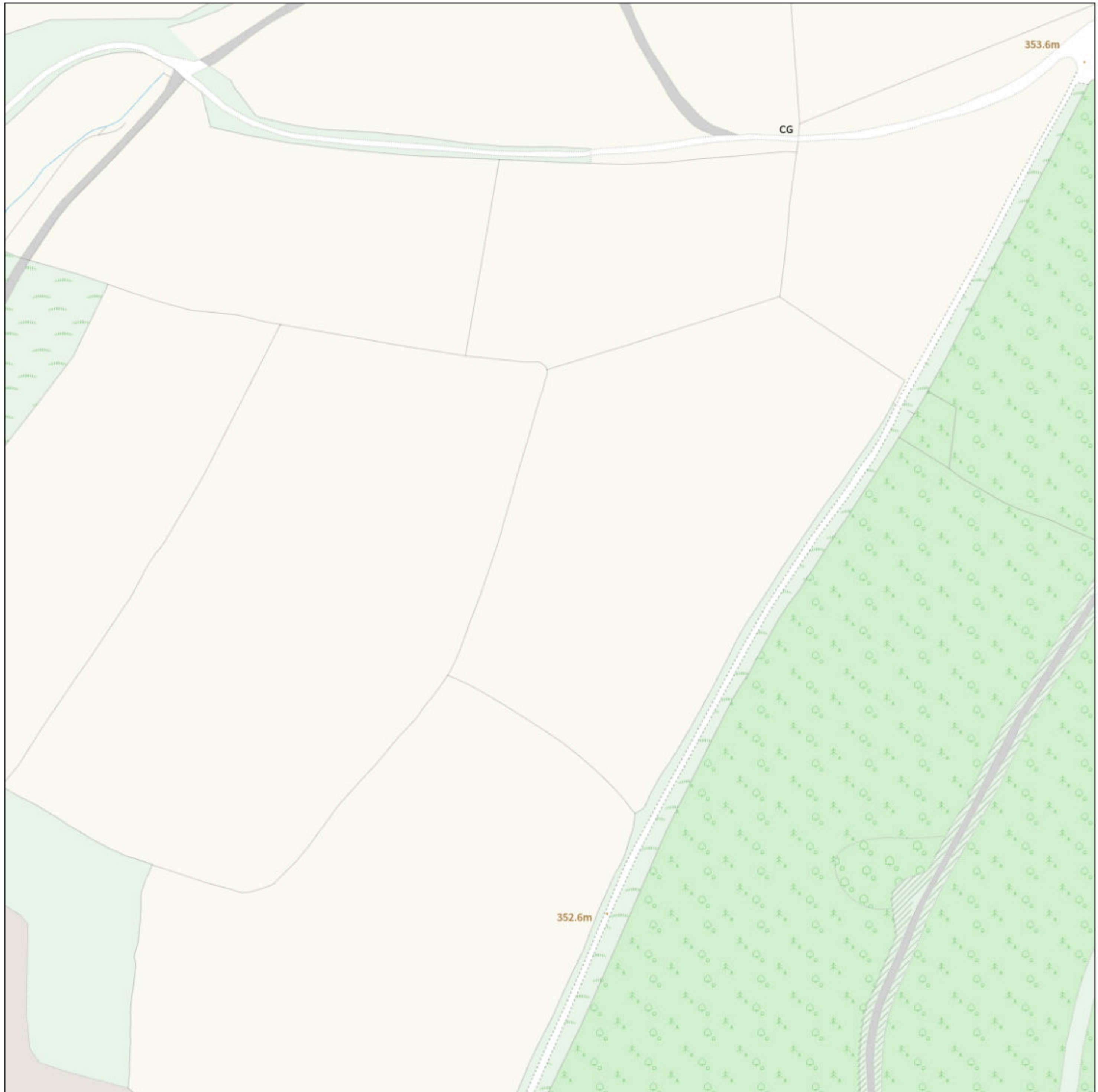
Easting/Northing : (centre) 323105,197305

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : TTF02041P

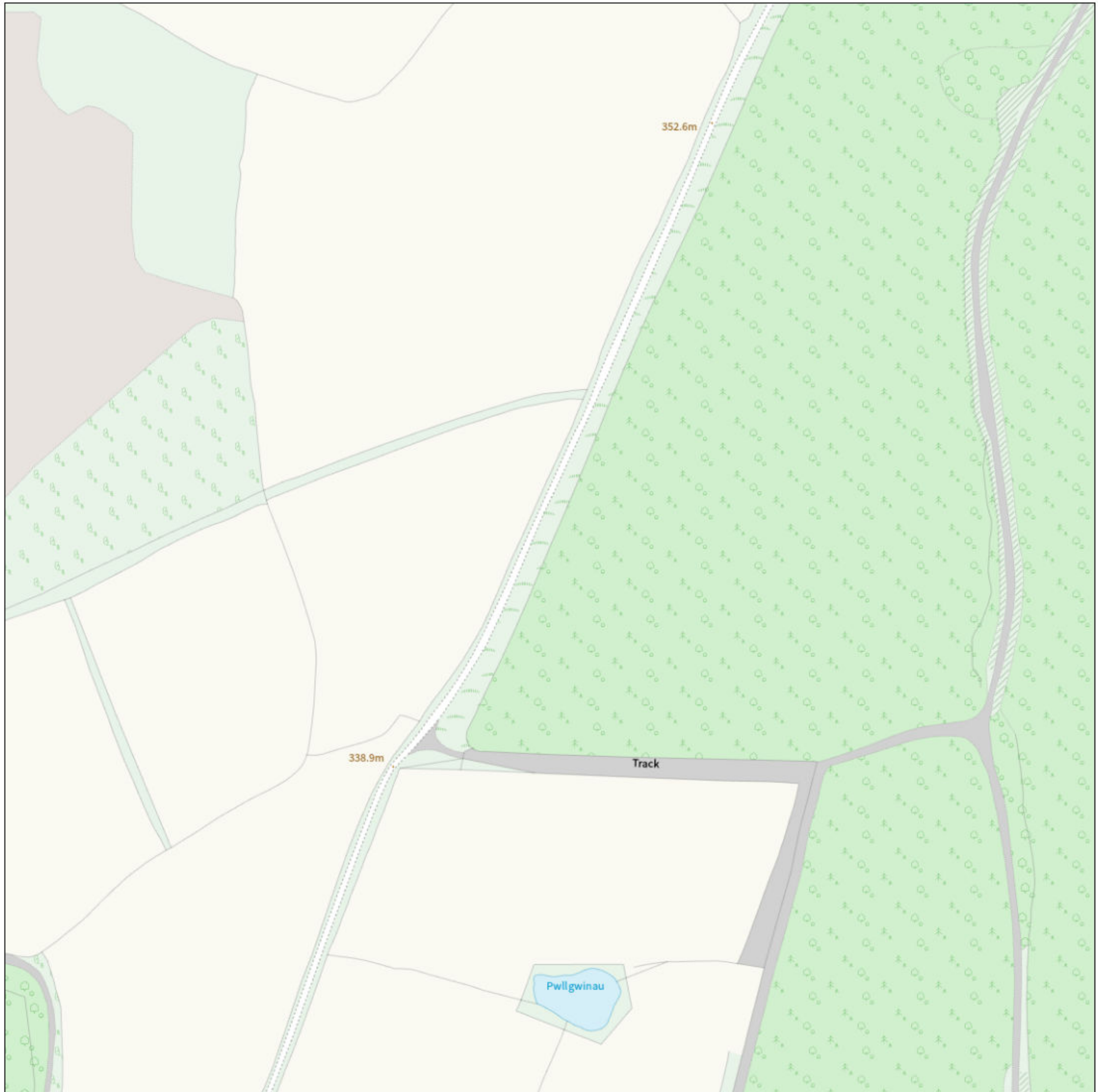
Map Reference : (centre) ST2317896965

Easting/Northing : (centre) 323178,196965

Issued : 26/07/2021 14:04:56

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : IMY02041R

Map Reference : (centre) ST2313096603

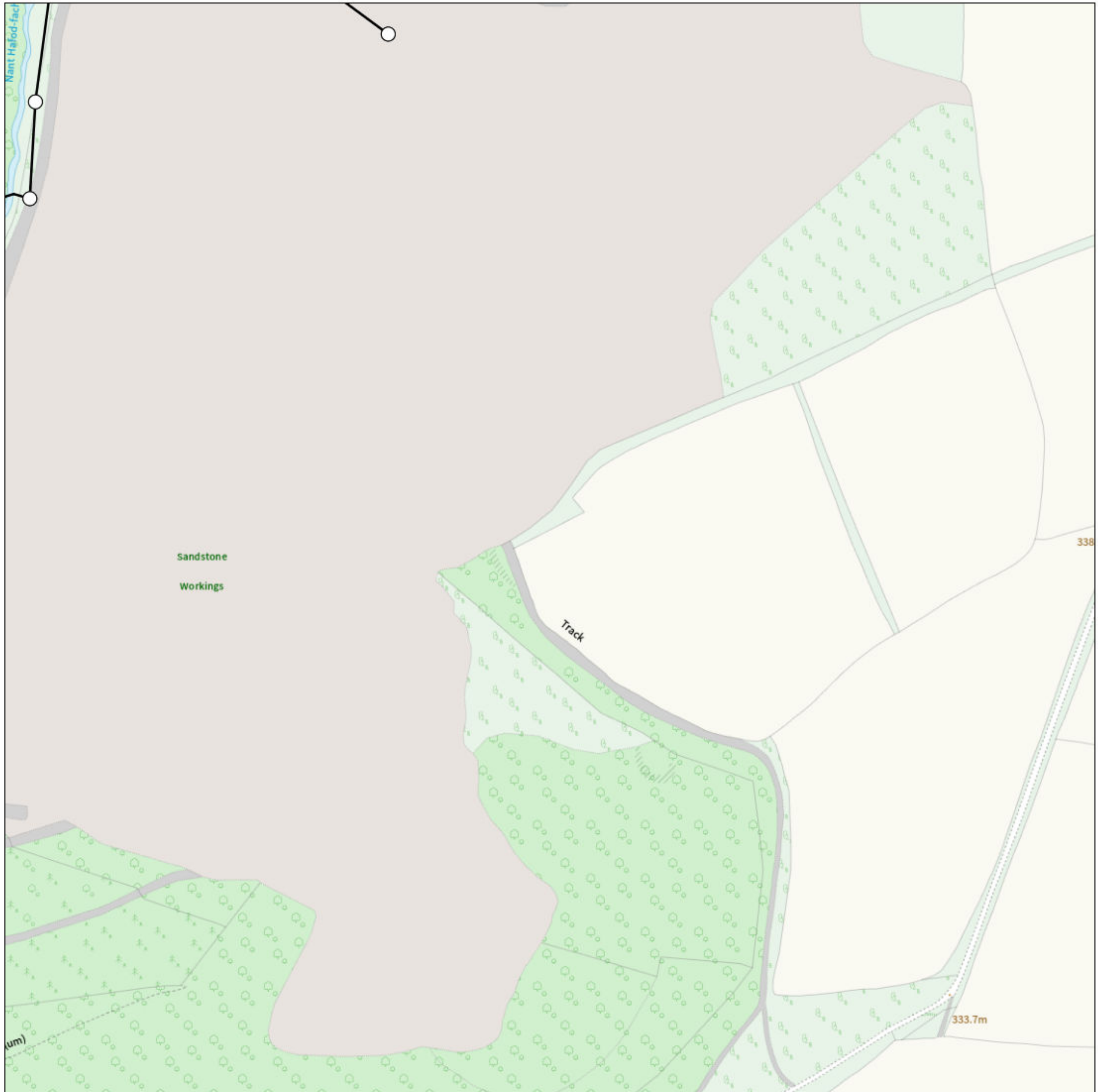
Easting/Northing : (centre) 323130,196603

Issued : 26/07/2021 14:04:58

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	▲	Planned
Pole			Duct Tee	■	Inferred
Box			Building	Ⓚ	Duct
Manhole			Kiosk	Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : EMP020560

Map Reference : (centre) ST2279696504

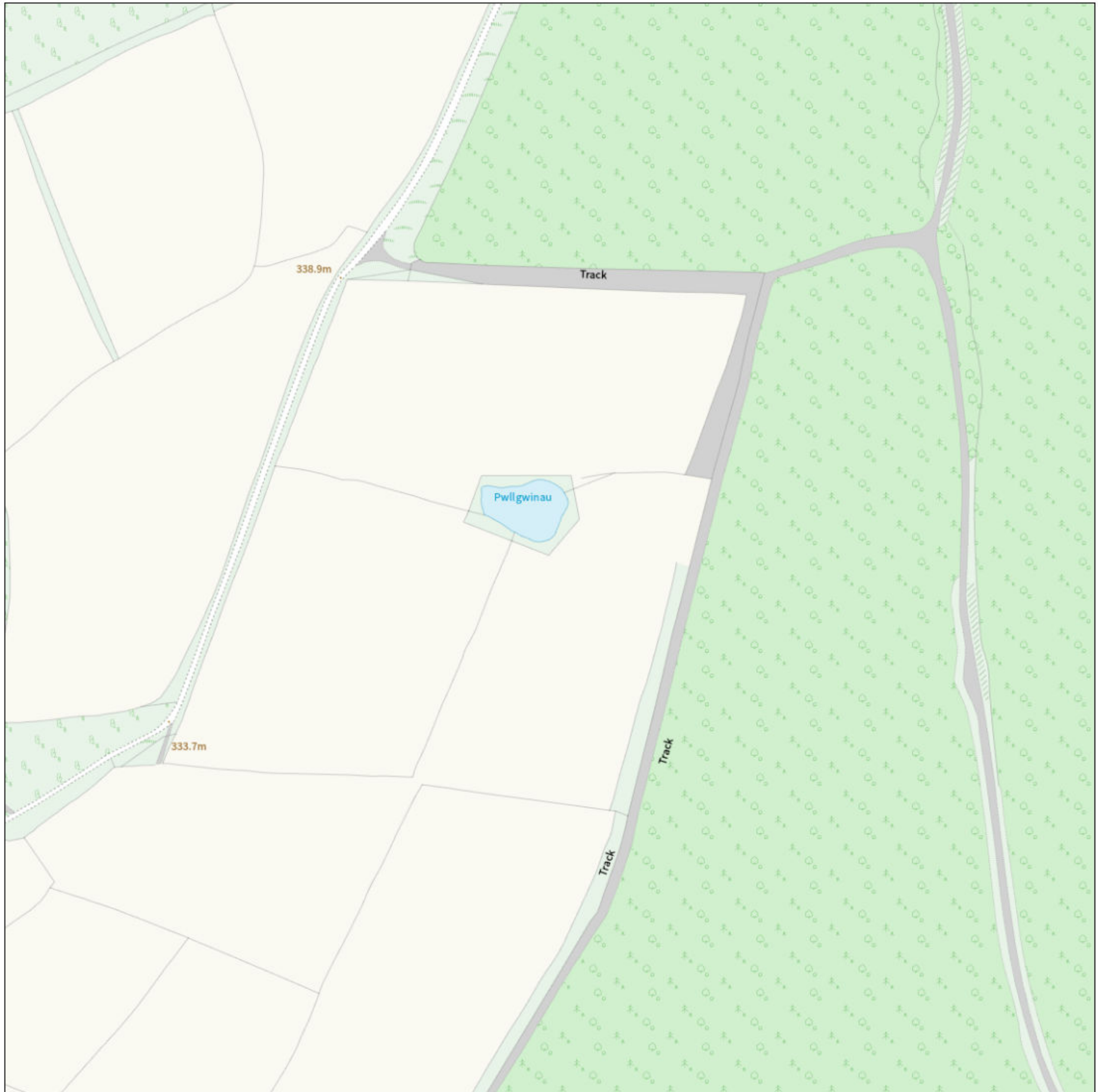
Easting/Northing : (centre) 322796,196504

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : DCA02058F

Map Reference : (centre) ST2315496379

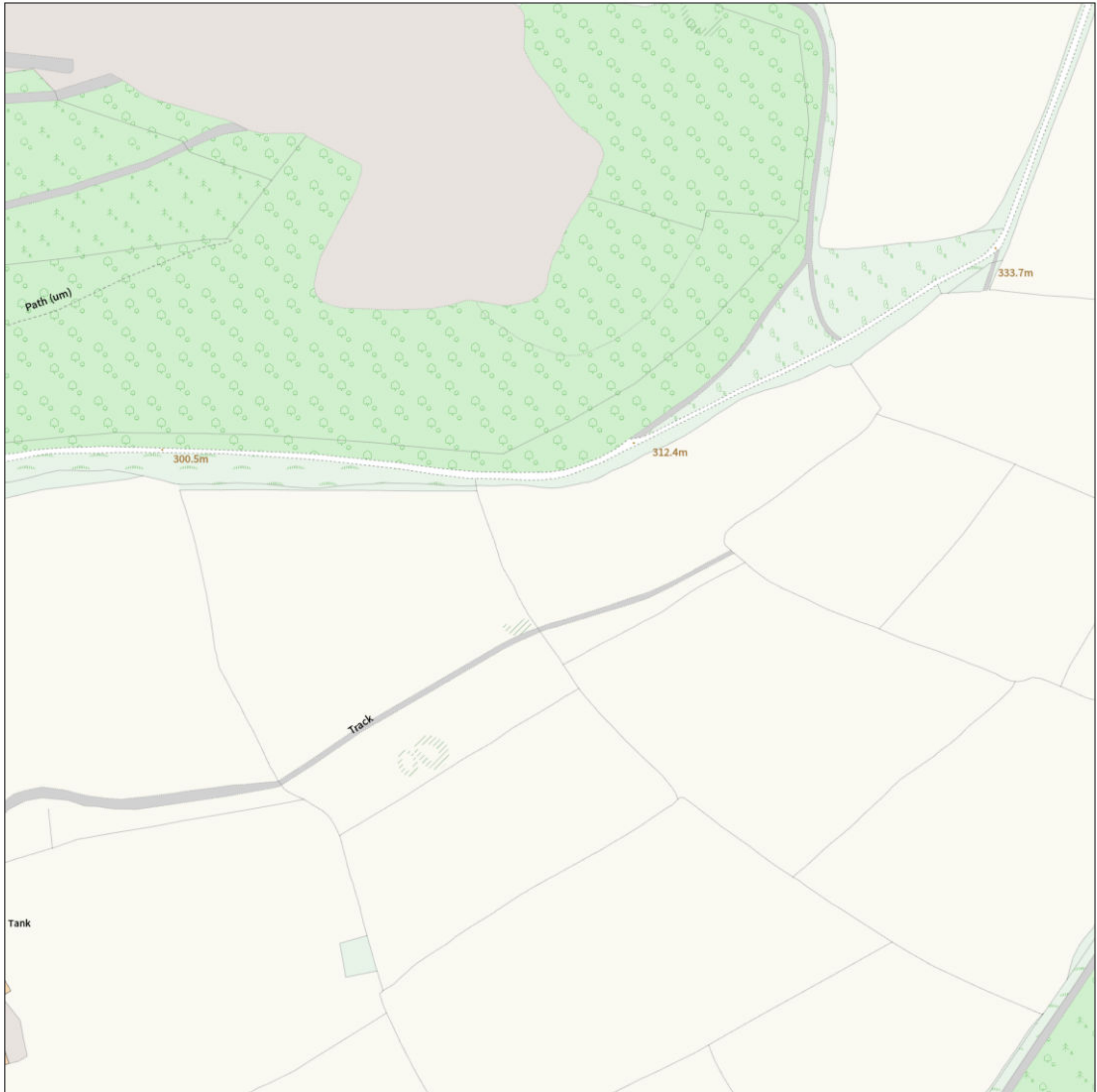
Easting/Northing : (centre) 323154,196379

Issued : 26/07/2021 14:05:19

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	▲	Planned
Pole			Duct Tee	■	Inferred
Box			Building	Ⓚ	Duct
Manhole			Kiosk	Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : RWS02056N

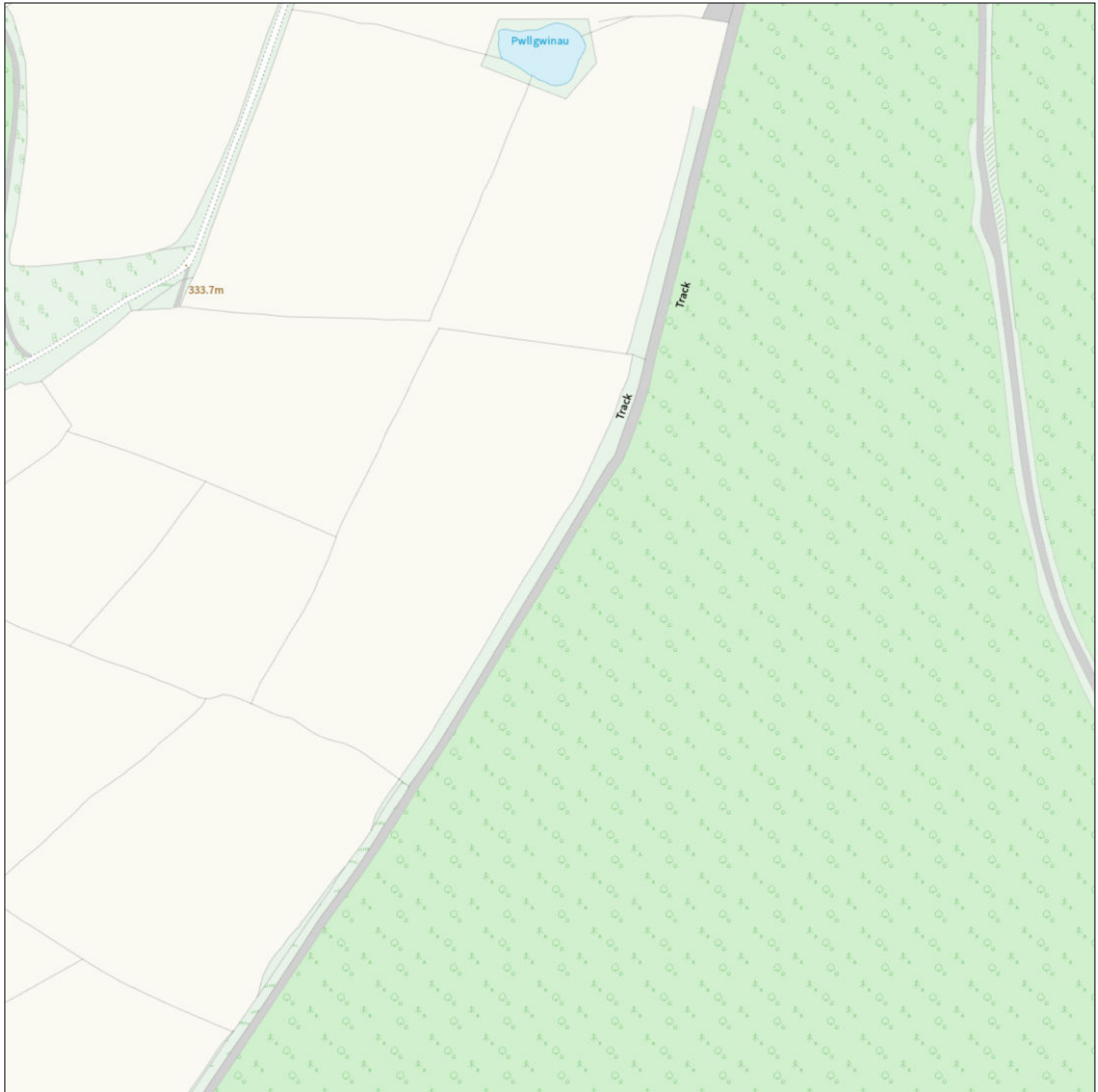
Map Reference : (centre) ST2277596162

Easting/Northing : (centre) 322775,196162

Issued : 26/07/2021 14:05:31

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : TXT02054R

Map Reference : (centre) ST2314696170

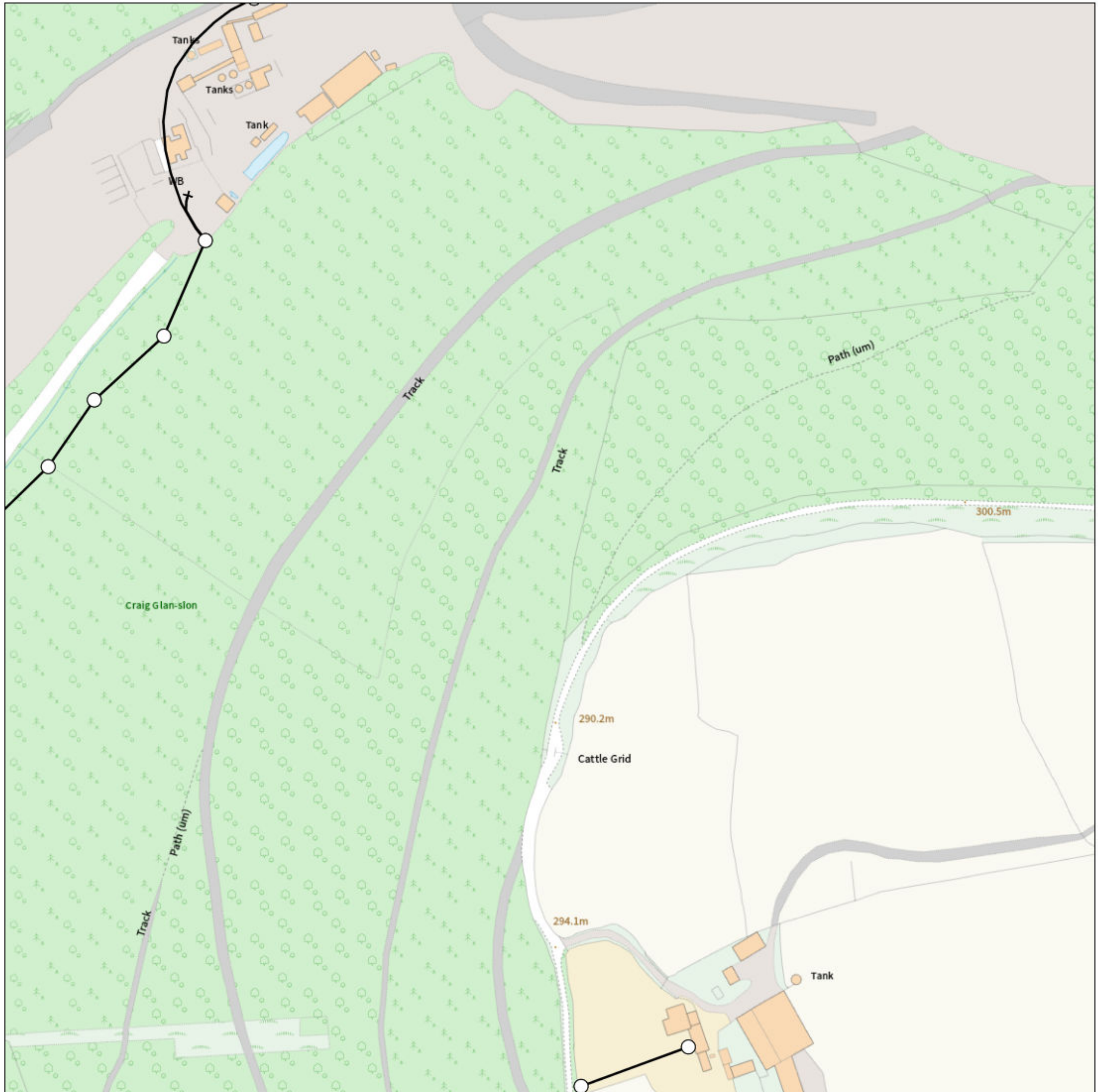
Easting/Northing : (centre) 323146,196170

Issued : 26/07/2021 14:05:46

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	▲	Planned
Pole			Duct Tee		Inferred
Box			Building		Duct
Manhole			Kiosk		
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : XYZ02054F

Map Reference : (centre) ST2240796186

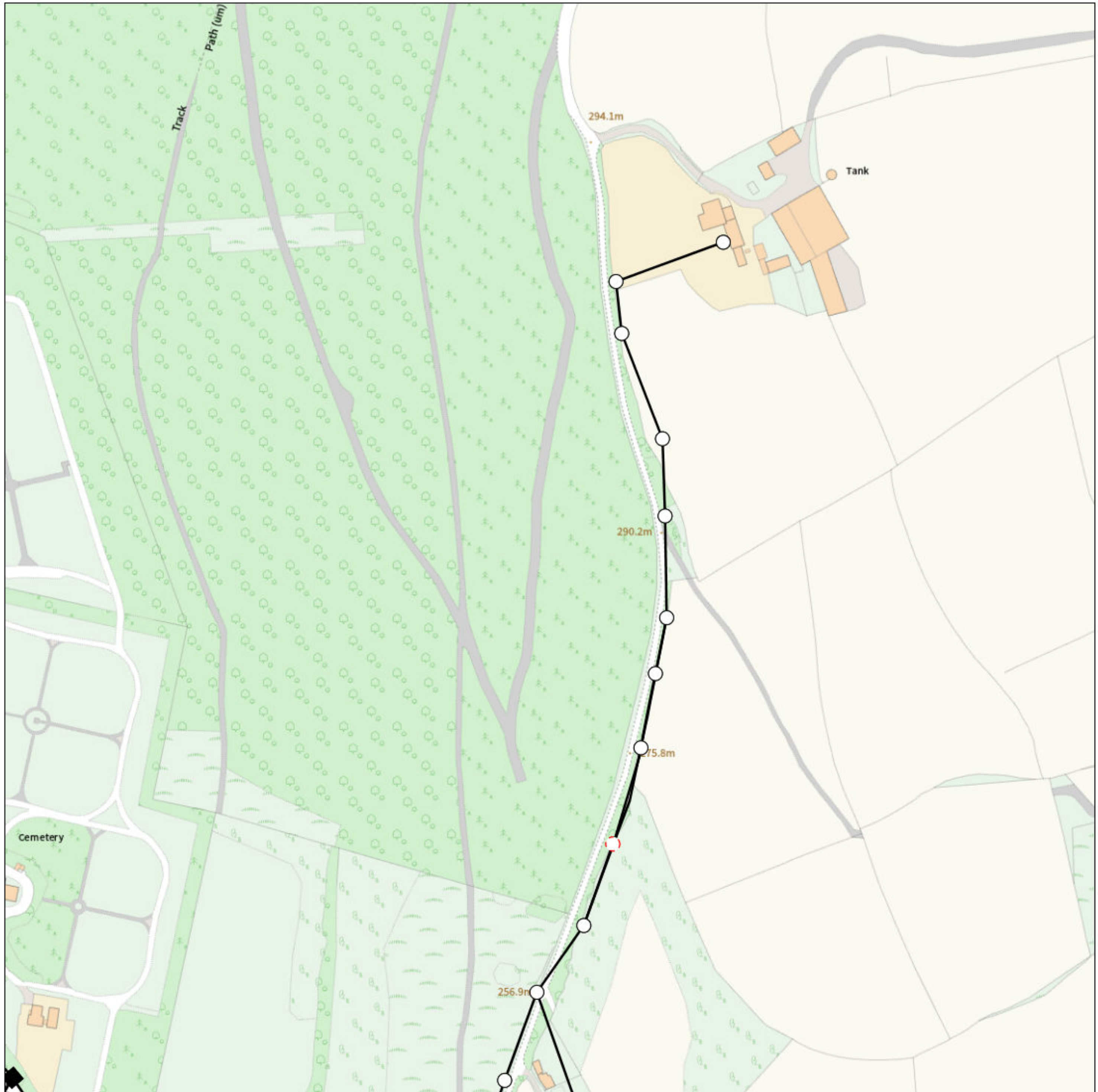
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Issued : 26/07/2021 14:05:50

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : FQF02058H

Map Reference : (centre) ST2239195817

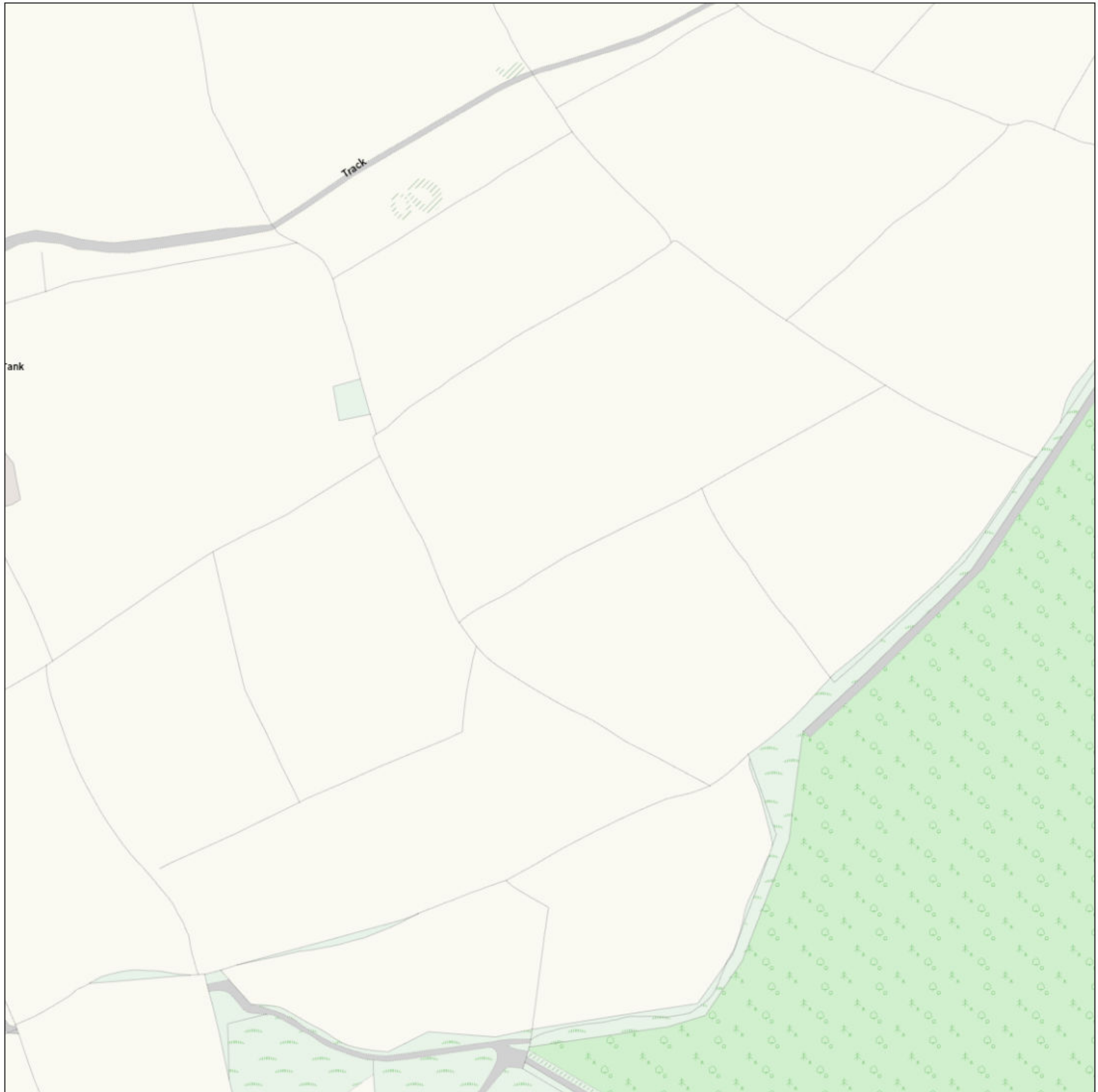
Easting/Northing : (centre) 322391,195817

Issued : 26/07/2021 14:06:04

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : FUX02066T

Map Reference : (centre) ST2277895907

Easting/Northing : (centre) 322778,195907

Issued : 26/07/2021 14:06:24

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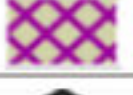

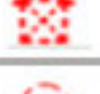








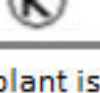
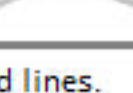







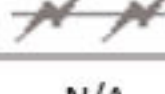



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KEY TO BT SYMBOLS

KEY TO BT SYMBOLS			Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			<p>Other proposed plant is shown using dashed lines.</p> <p>BT Symbols not listed above may be disregarded.</p> <p>Existing BT Plant may not be recorded.</p> <p>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.</p>			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

BT Ref : FHJ02068W

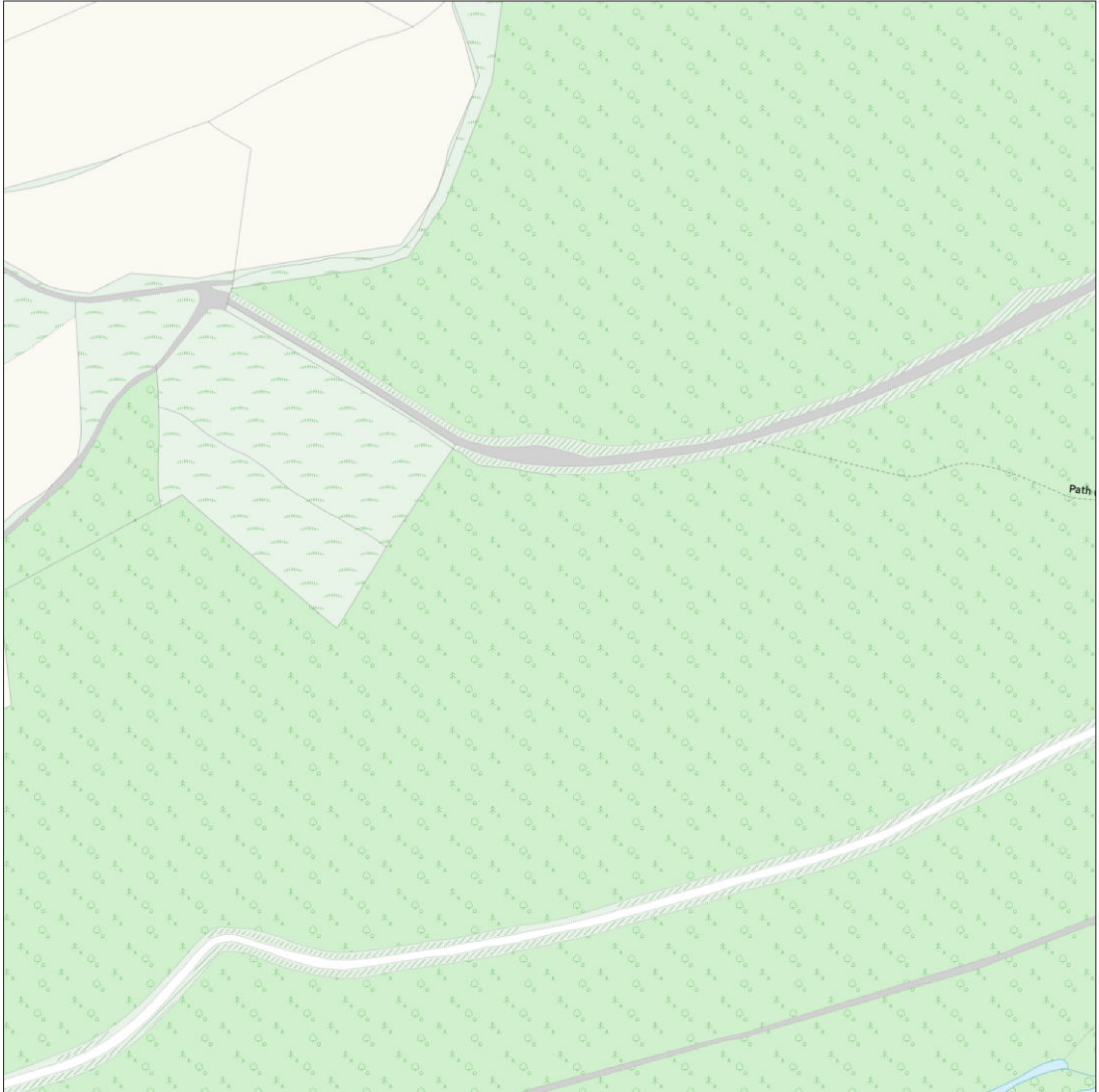
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Easting/Northing : (centre) 323148,195933

Issued : 26/07/2021 14:06:31

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	▲	Planned
Pole			Duct Tee		Inferred
Box			Building		Duct
Manhole			Kiosk		
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : DVS02076Z

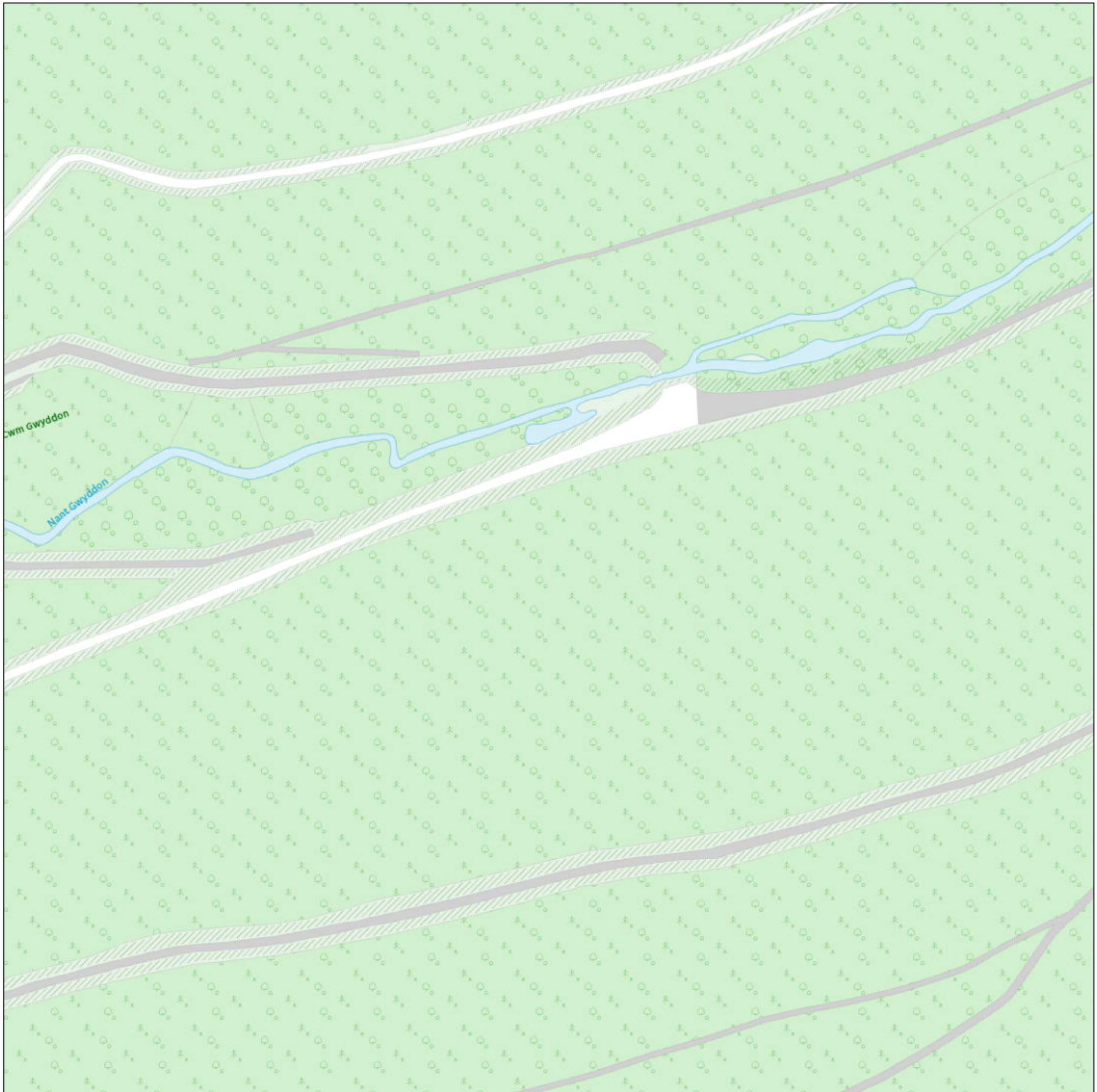
Map Reference : (centre) ST2291495560

Easting/Northing : (centre) 322914,195560

Issued : 26/07/2021 14:07:22

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
		Pending Add	In Place	Pending Remove	Not In Use
Power Cable					
Power Duct					N/A

BT Ref : VWK02073N

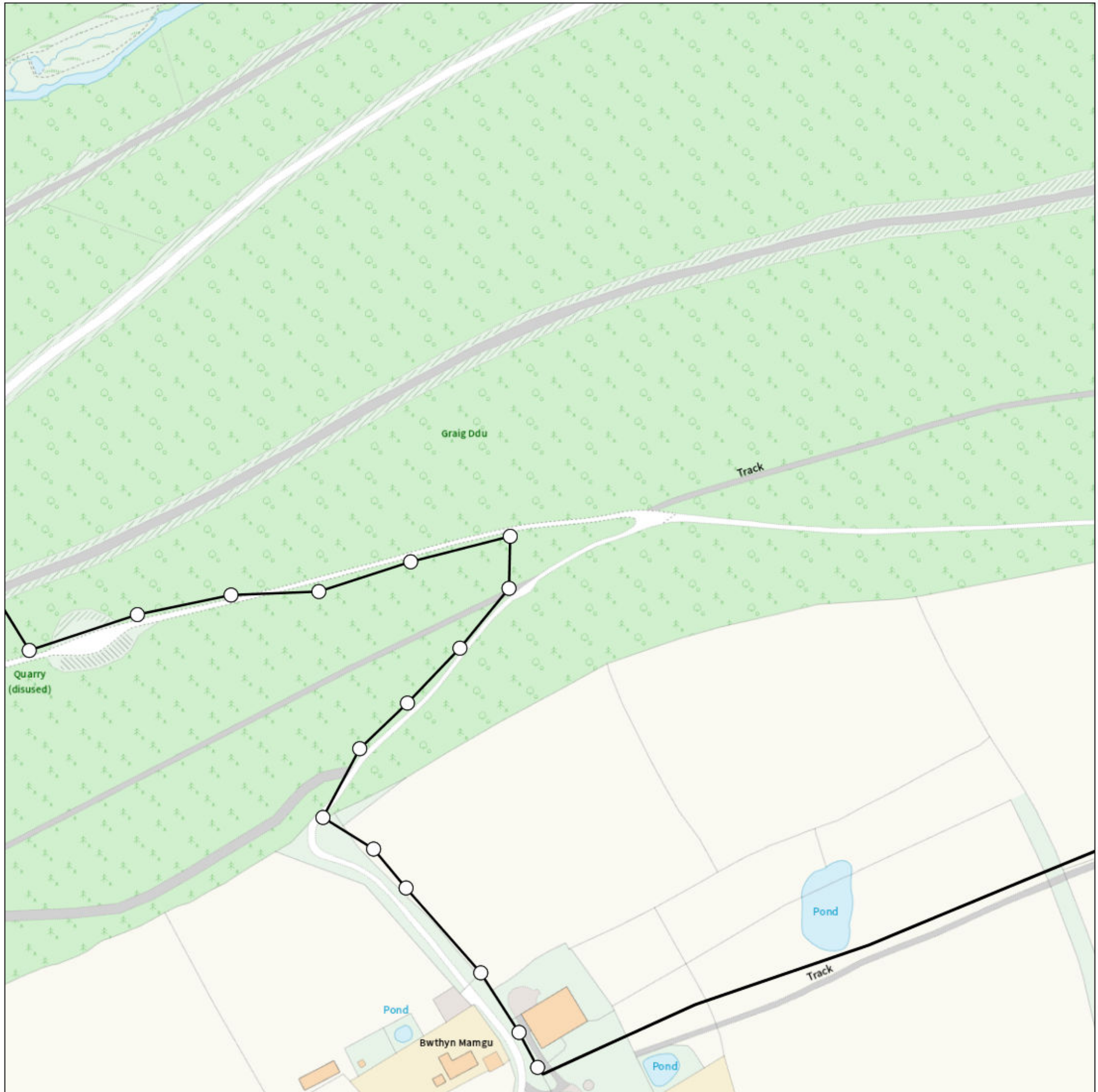
Map Reference : (centre) ST2298395202

Easting/Northing : (centre) 322983,195202

Issued : 26/07/2021 14:07:34

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : TCJ02075W

Map Reference : (centre) ST2266494869

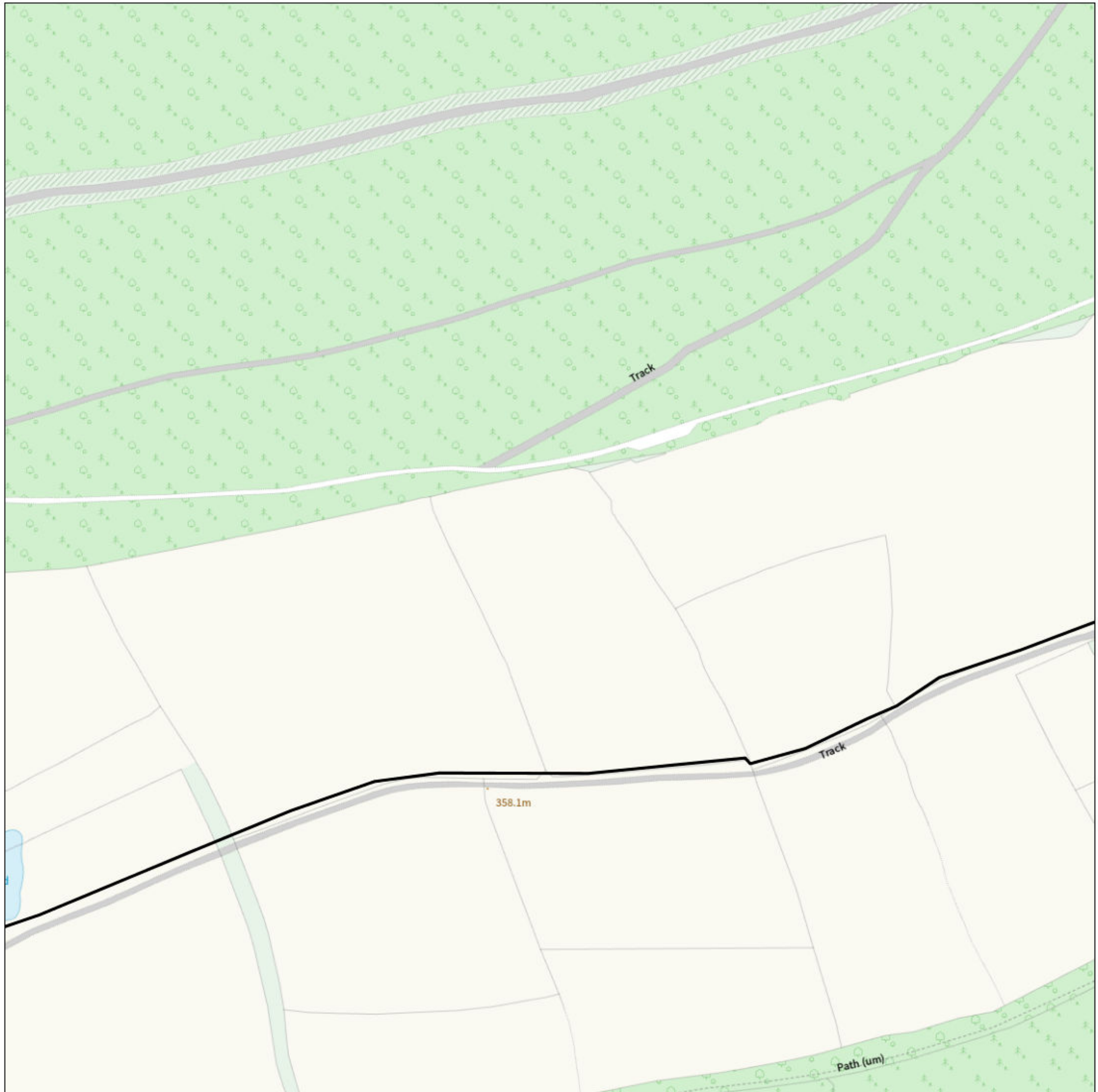
Easting/Northing : (centre) 322664,194869

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : FSR02074Y

Map Reference : (centre) ST2304494855

Easting/Northing : (centre) 323044,194855

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	Planned	
Pole			Duct Tee	Inferred	
Box			Building	Duct	
Manhole			Kiosk	Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : WGW02072H

Map Reference : (centre) ST2340194962

Easting/Northing : (centre) 323401,194962

Issued : 26/07/2021 14:07:57

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	▲	Planned
Pole			Duct Tee	■	Inferred
Box			Building	Ⓚ	Duct
Manhole			Kiosk	Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : QUT02081R

Map Reference : (centre) ST2377095091

Easting/Northing : (centre) 323770,195091

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		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP				Planned	
Pole				Inferred	
Box				Duct	
Manhole				Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : FBA02084I

Map Reference : (centre) ST2263294534

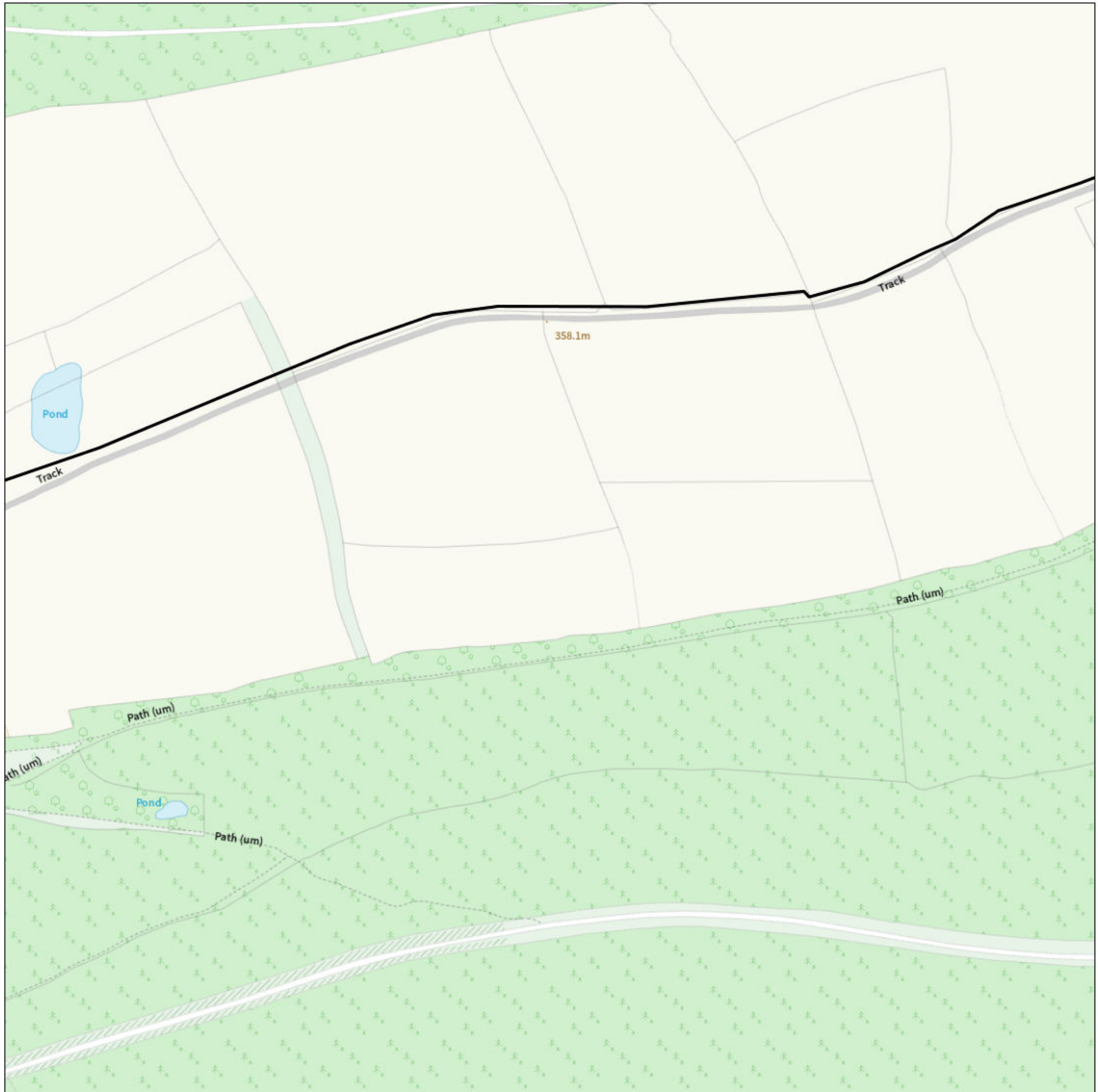
Easting/Northing : (centre) 322632,194534

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : GPZ02081D

Map Reference : (centre) ST2301794641

Easting/Northing : (centre) 323017,194641

Issued : 26/07/2021 14:08:36

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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : PZO02089B

Map Reference : (centre) ST2340894782

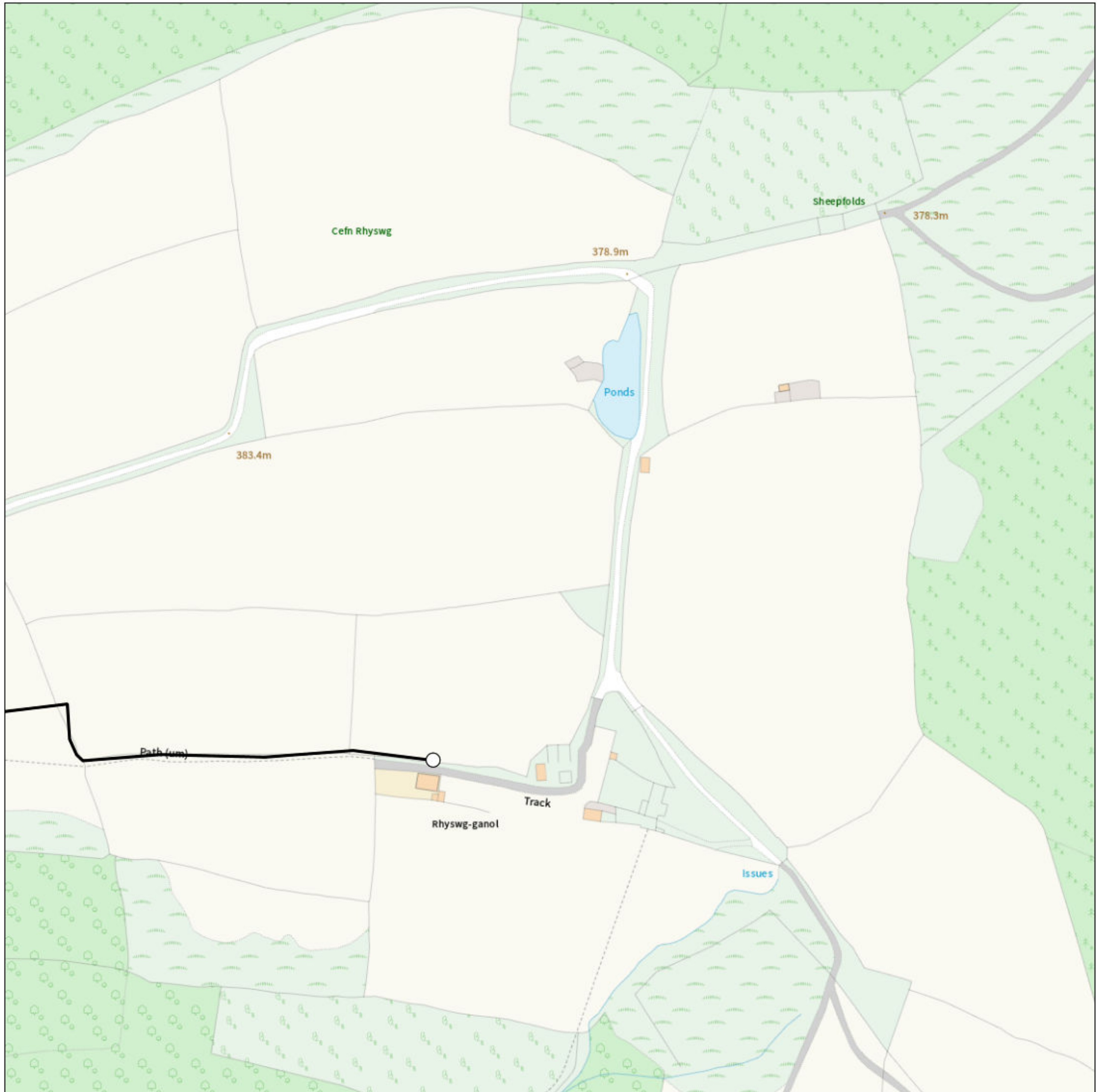
Easting/Northing : (centre) 323408,194782

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Maps by email Plant Information Reply



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		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP				Planned	
Pole				Inferred	
Box				Duct	
Manhole				Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : TBN02089K

Map Reference : (centre) ST2379294910

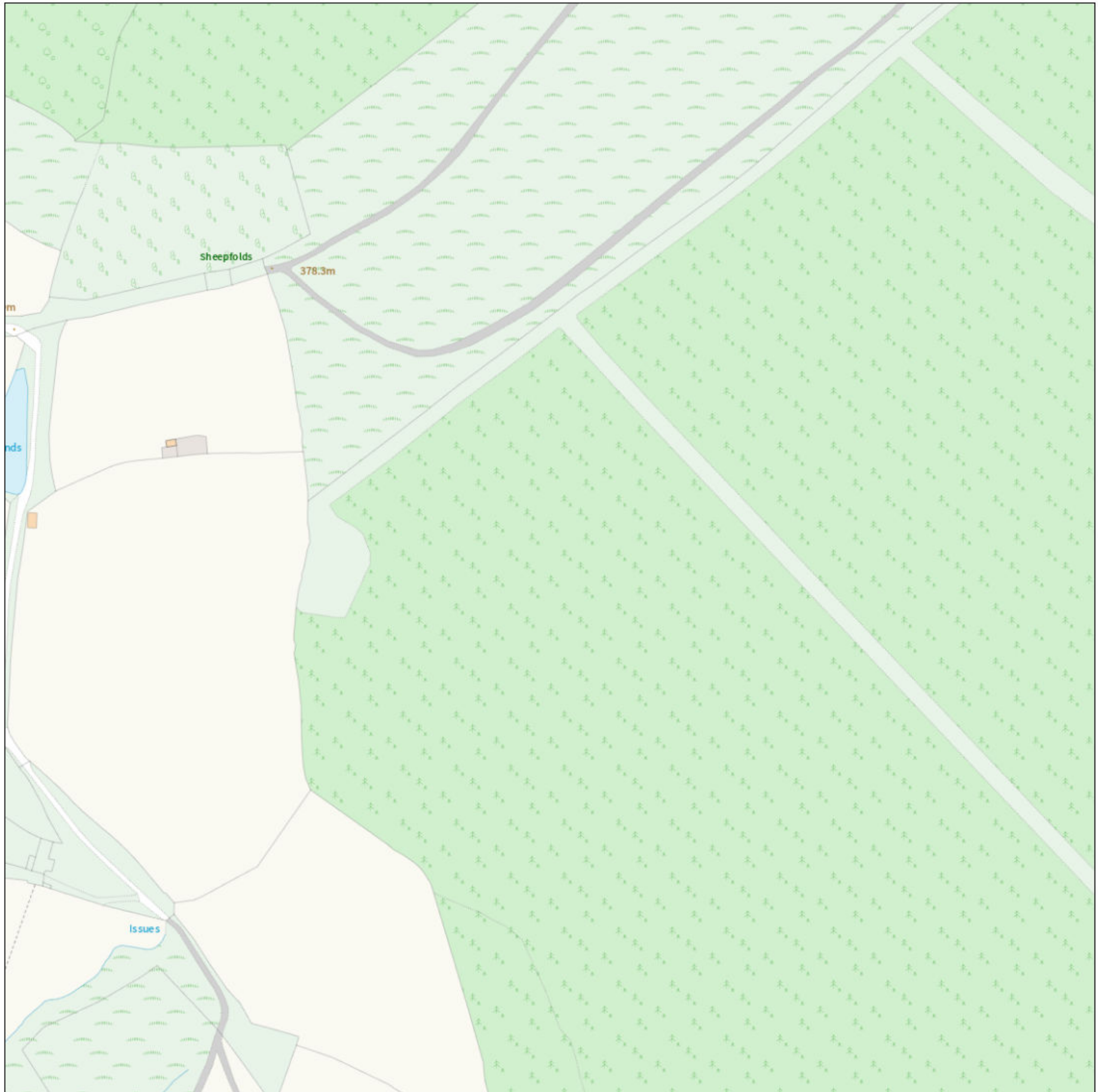
Easting/Northing : (centre) 323792,194910

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KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	▲	Planned
Pole			Duct Tee	■	Inferred
Box			Building	Ⓚ	Duct
Manhole			Kiosk	Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : LOO02098L

Map Reference : (centre) ST2407394935

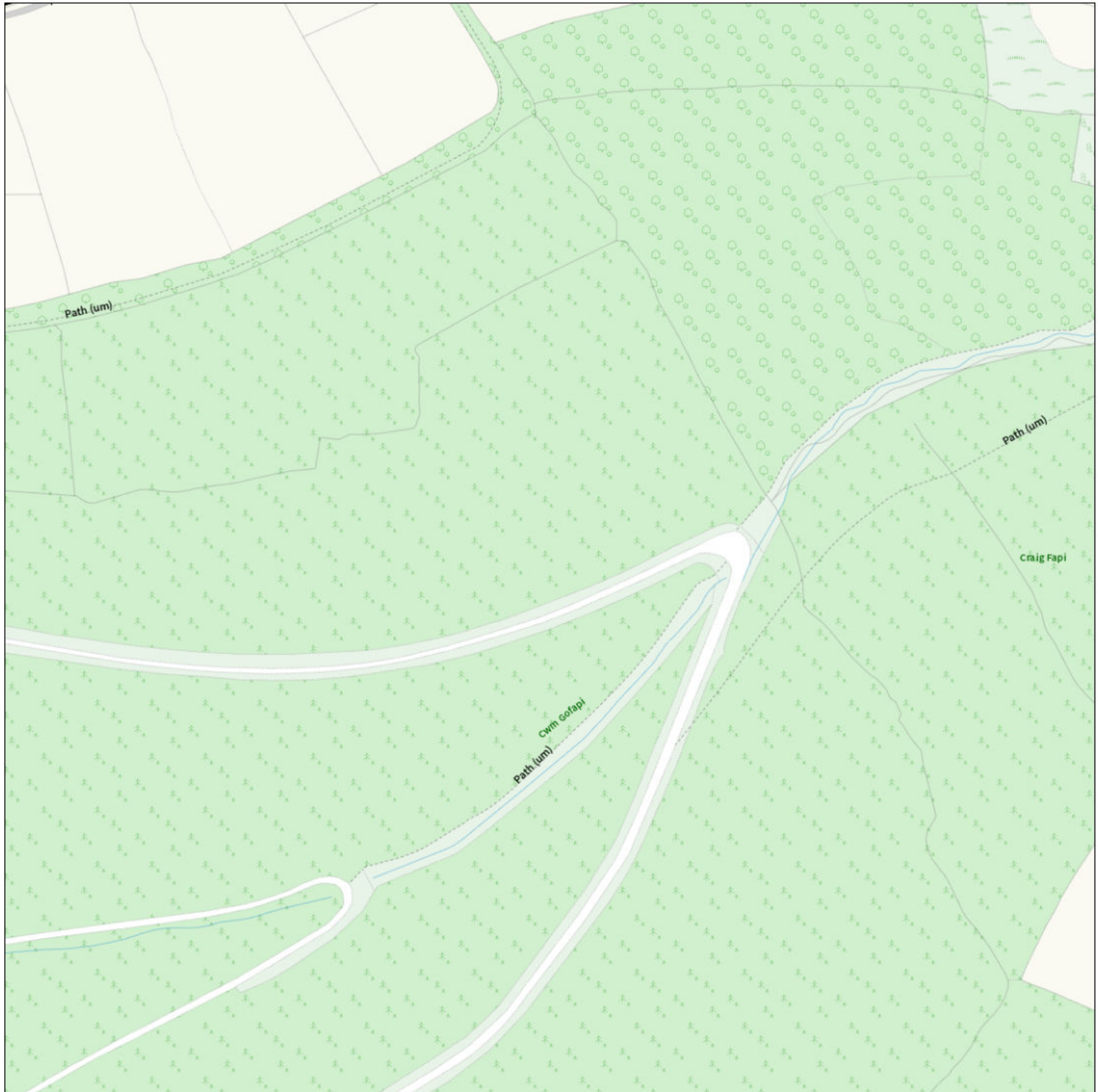
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	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	▲	Planned
Pole			Duct Tee	■	Inferred
Box			Building	Ⓚ	Duct
Manhole			Kiosk	Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : RKO02093K

Map Reference : (centre) ST2339894510

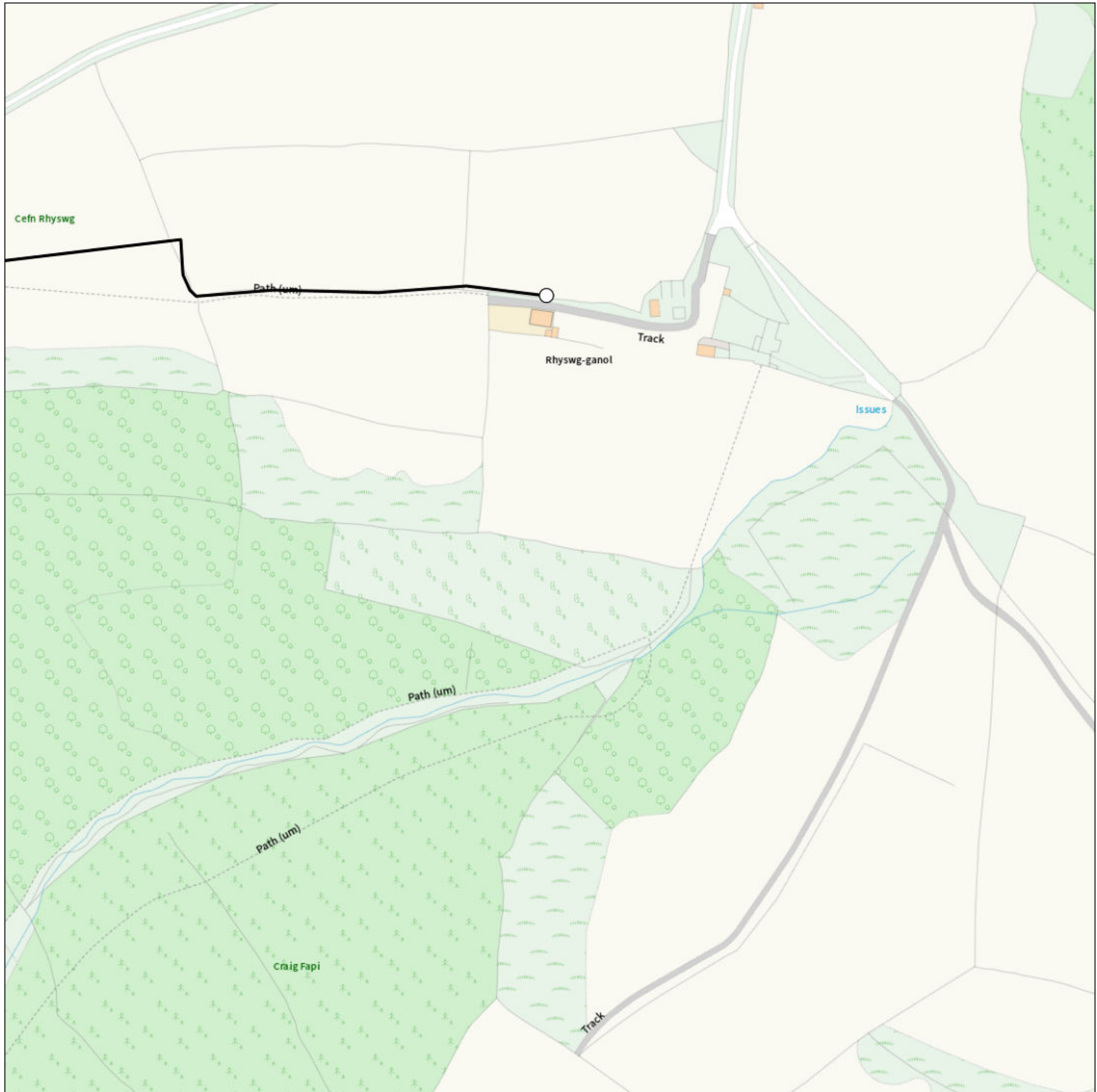
Easting/Northing : (centre) 323398,194510

Issued : 26/07/2021 14:09:23

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		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP				Planned	
Pole				Inferred	
Box				Duct	
Manhole				Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : DXY02099N

Map Reference : (centre) ST2374094697

Easting/Northing : (centre) 323740,194697

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	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : ISE02091U

Map Reference : (centre) ST2411994729

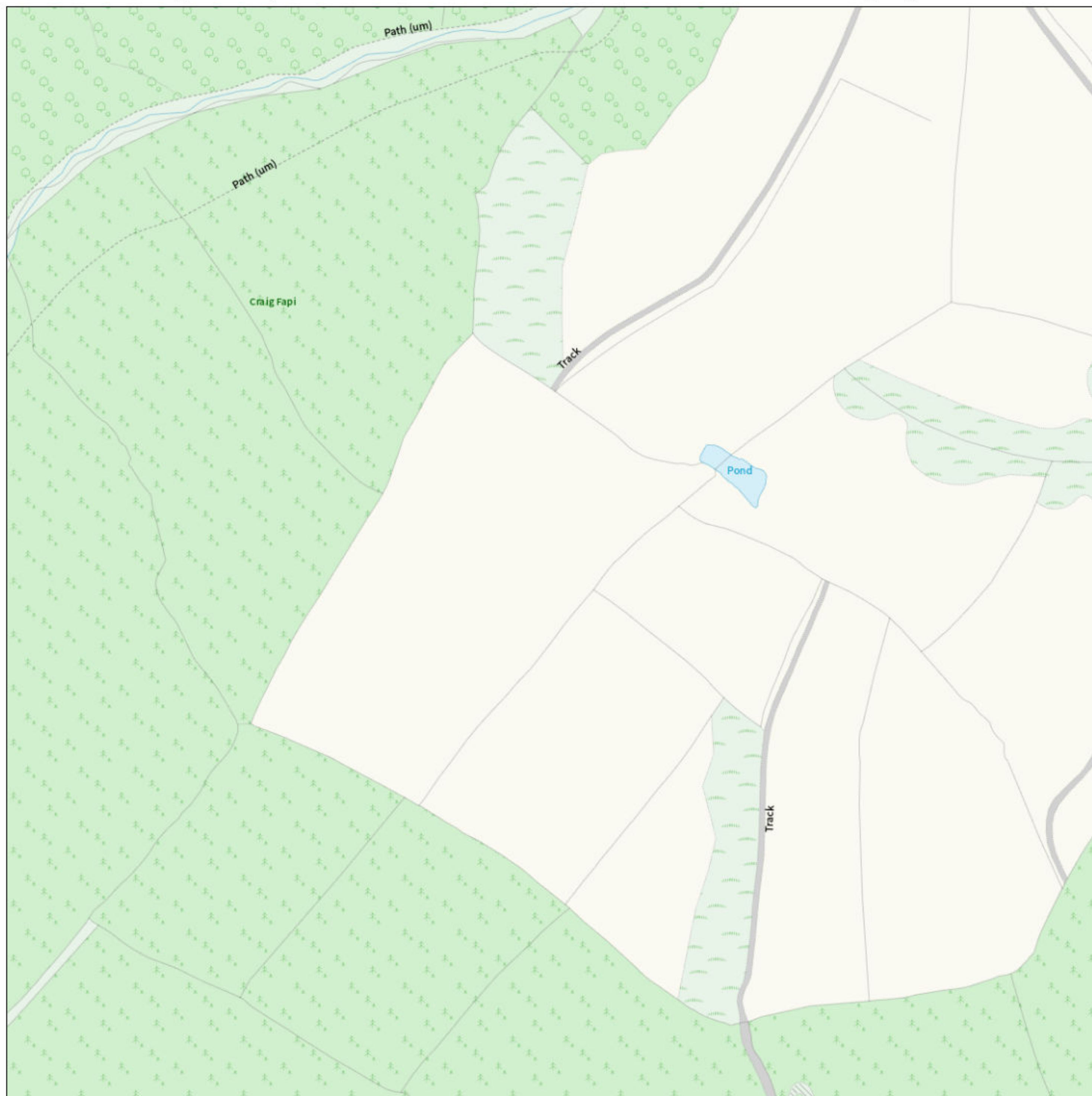
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WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.

openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			Split Coupling	▲	Planned
Pole			Duct Tee	■	Inferred
Box			Building	Ⓚ	Duct
Manhole			Kiosk	Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : THZ02099B

Map Reference : (centre) ST2375294391

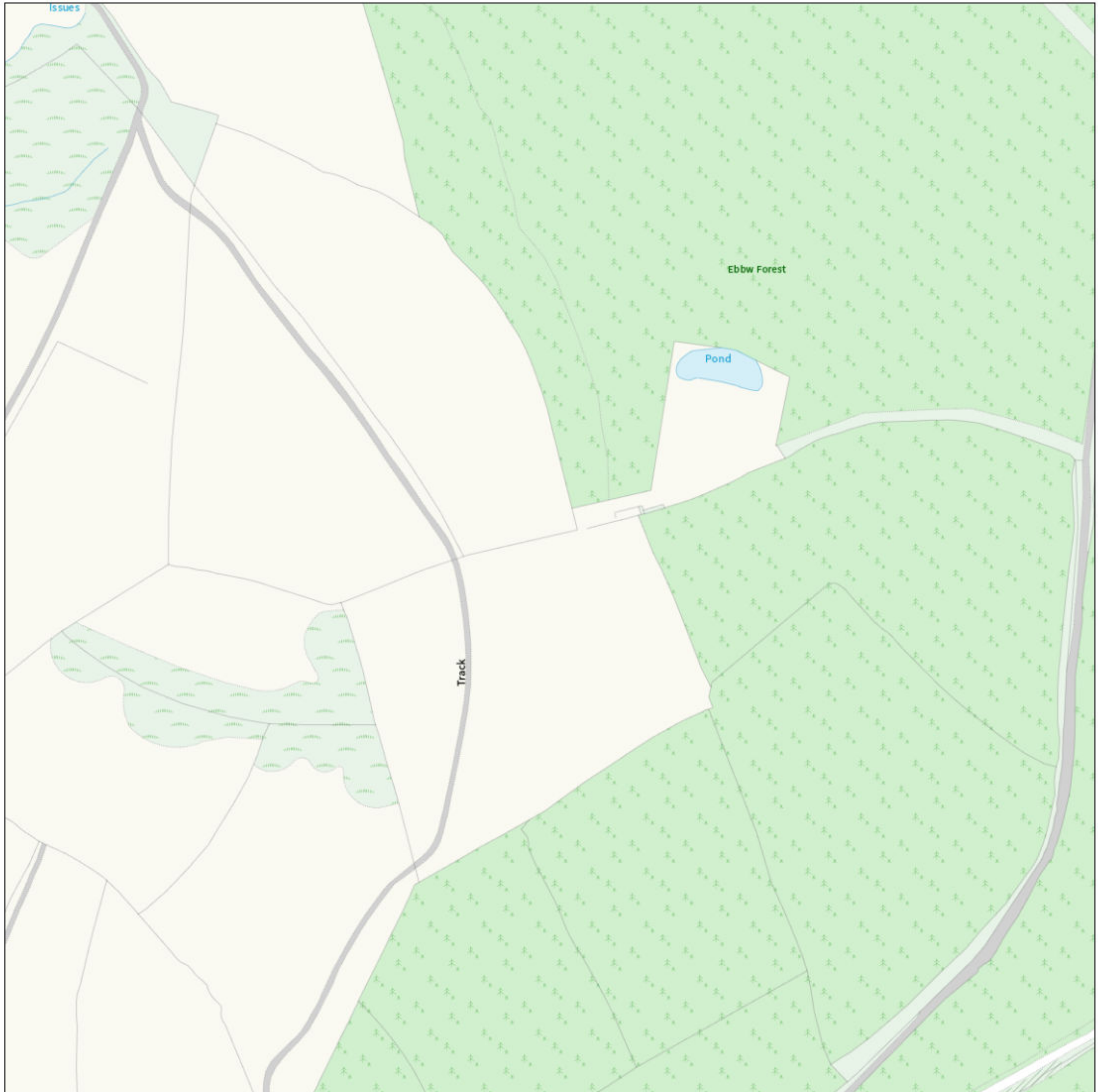
Easting/Northing : (centre) 323752,194391

Issued : 26/07/2021 14:09:52

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KEY TO BT SYMBOLS

			Change Of State	+	Hatchings	
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PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk	K	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

BT Ref : YQQ02096B

Map Reference : (centre) ST2411094513

Easting/Northing : (centre) 324110,194513

Issued : 26/07/2021 14:10:03

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ELECTRIC

Our Ref: 22790239 Your Ref: MynyddMaen g01

Monday, 26 July 2021

Duncan Phillips
91 Market Street
Hoylake
Merseyside
CH47 5AA

Western Power Distribution,
Mapping Centre
Toll End Road
Tipton
West Midlands
United Kingdom
DY4 0HH
www.westernpower.co.uk

Dear Duncan Phillips

Thank you for your enquiry dated Monday, 26 July 2021

I now enclose a copy of our plan showing existing Western Power Distribution (WPD) Electricity / WPD Surf Telecom apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all WPD equipment on site should be assumed to be LIVE until WPD prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Map Response
T 0121 623 9780
WPDMapResponse
@westernpower.co.uk

LinesearchbeforeUdig
Help Desk 0845 437 7365

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either WPD Electrical apparatus or WPD Surf Telecom apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. WPD Surf Telecom ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Western Power Distribution PLC
South West - 02366894
South Wales - 02366985
East Midlands - 02366923
West Midlands - 03600574

Where diversions to WPD apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Registered in
England and Wales

Following consultation the local Western Power Distribution team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

Registered Office:
Avonbank
Feeder Road
Bristol
BS2 0TB

Yours sincerely
WPD Map Response Team

Contact Us

Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

Mapping Enquiries

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 0121 623 9780
Email WPDMapResponse@westernpower.co.uk

General Enquiries

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

LinesearchbeforeUdig

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk

Steps to help keep you safe

- **If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.**

Safety Documents – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

Cables are sometimes covered by tiles or a marker tape - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.

Contact Us

Mapping Enquiries:

All areas0121 623 9780

General Enquiries:




















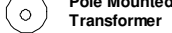

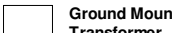


All areas0800 096 3080

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0800 6783 105

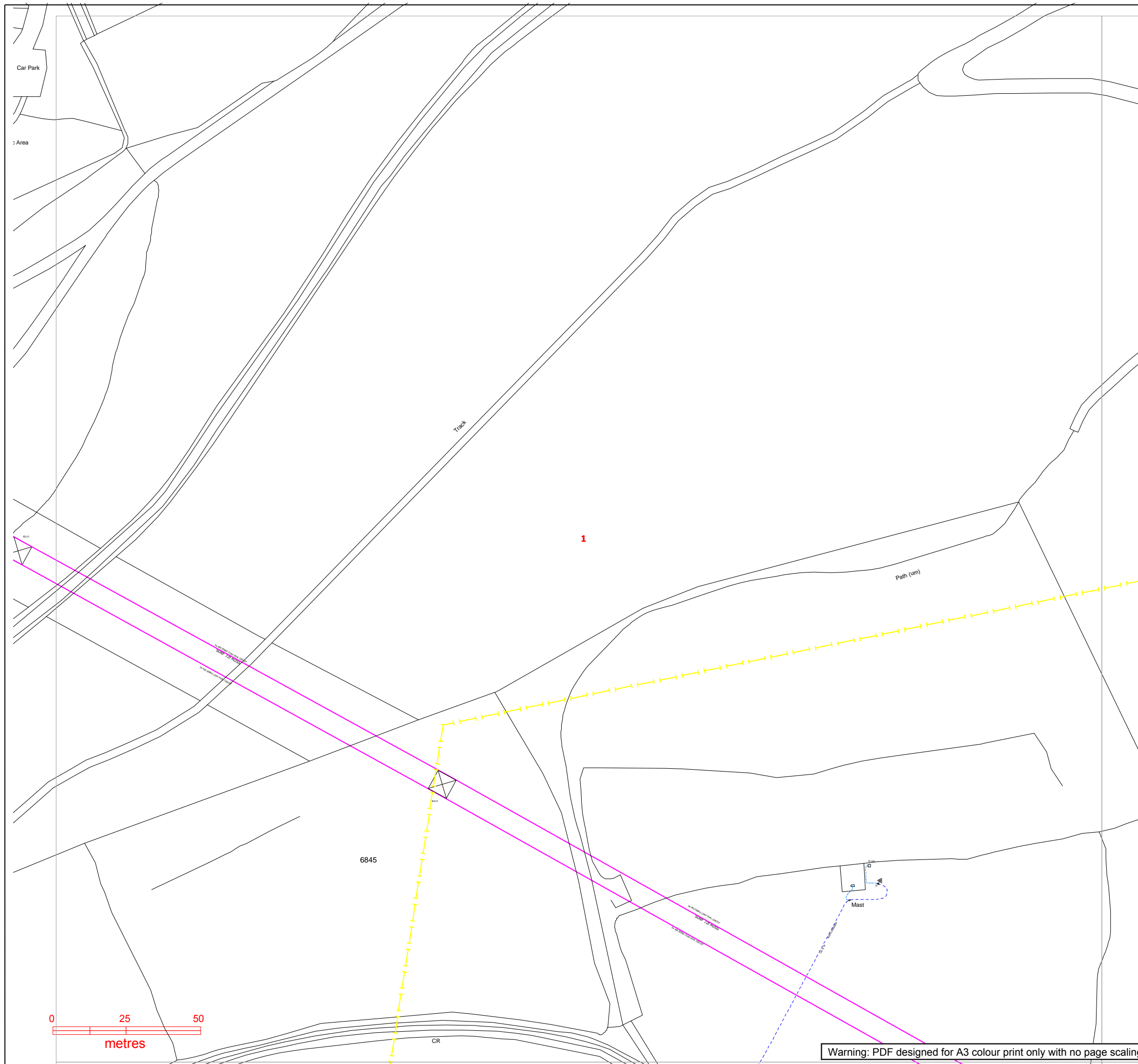
Date Requested: 26/07/2021
Job Reference: 22790239
Site Location: 323478 198208
Requested by: Mr Duncan Phillips
Your Scheme/Reference: MynyddMaen g01

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- When working within 10m of any overhead electric line you should follow the requirements of HSE Guidance Note GS6.
- For further advice on working near our electricity cables or lines, call our Contact Centre on 0800 096 3080.
- Advice should be sought from the Western Power Distribution Contact Centre for any work that is to take place in proximity to 66kV or 132kV underground cables and 66kV 132kV overhead lines – 0800 096 3080

Overhead Line		Underground Cable
	PL	
	Service	
	LV	
	HV (11kV)	
	HV (33kV)	
	HV (66kV)	
	HV (132kV)	
SURF Telecoms		Pilot Cables
	S	
	Link Box	
	Site Location	
	Line/Area	
	PME Earth	
	Underground Earth	

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Contact Us

Mapping Enquiries:

All areas 0121 623 9780

General Enquiries:

All areas 0800 096 3080

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Job Reference: 22790239

Site Location: 323478 198208

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Exact Scales:

1:1250 Area or Circle dig site

1:500 Line dig site

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Overhead Line



SURF Telecoms



Link Box



Site Location

Line/Area



Underground Cable



Pilot Cables



PME Earth



Underground Earth



Pole Mounted Transformer



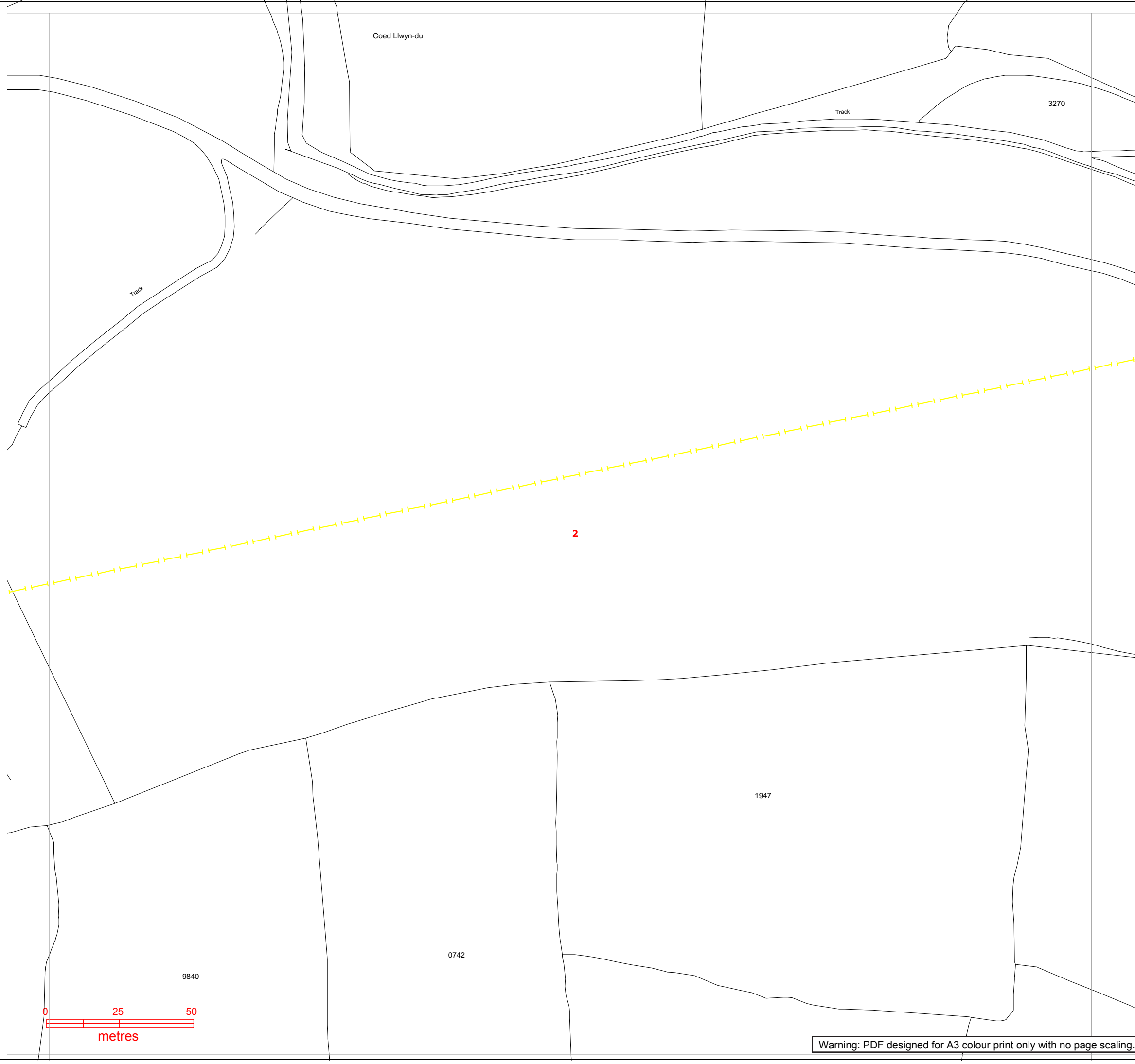
Ground Mounted Transformer



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Contact Us

Mapping Enquiries:

All areas

0121 623 9780

General Enquiries:

All areas

0800 096 3080

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Overhead Line

PL
Service
LV
HV (11kV)
HV (33kV)
HV (66kV)
HV (132kV)

SURF Telecoms

Link Box

Site Location

Line/Area

Underground Cable

PL
Service
LV
HV (11kV)
HV (33kV)
HV (66kV)
HV (132kV)

Pilot Cables

PME Earth

Pole Mounted Transformer

Underground Earth

Ground Mounted Transformer

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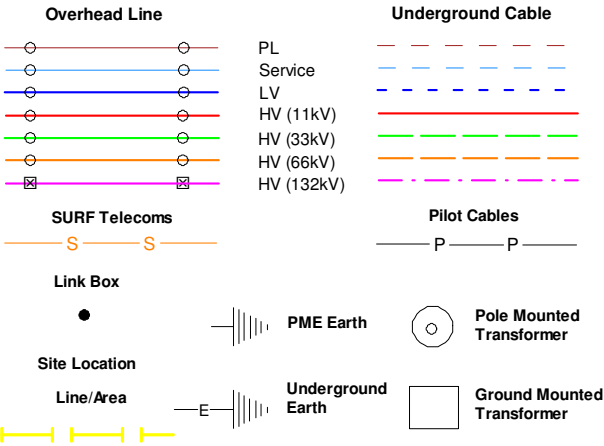
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Mapping Enquiries: All areas 0121 623 9780
General Enquiries: All areas 0800 096 3080
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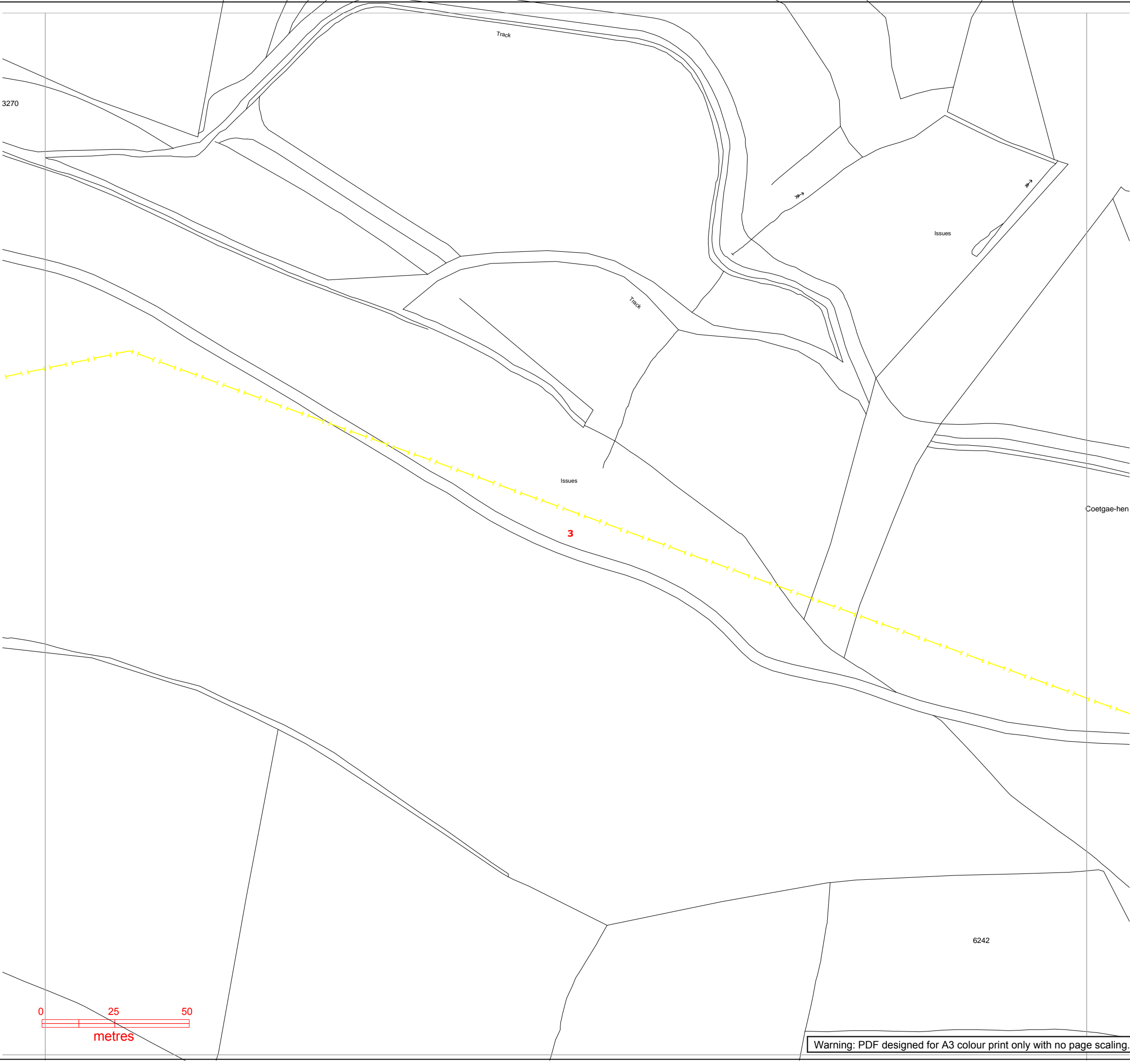
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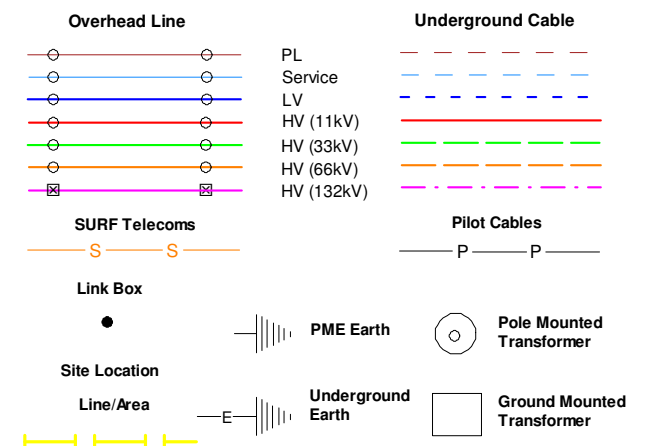
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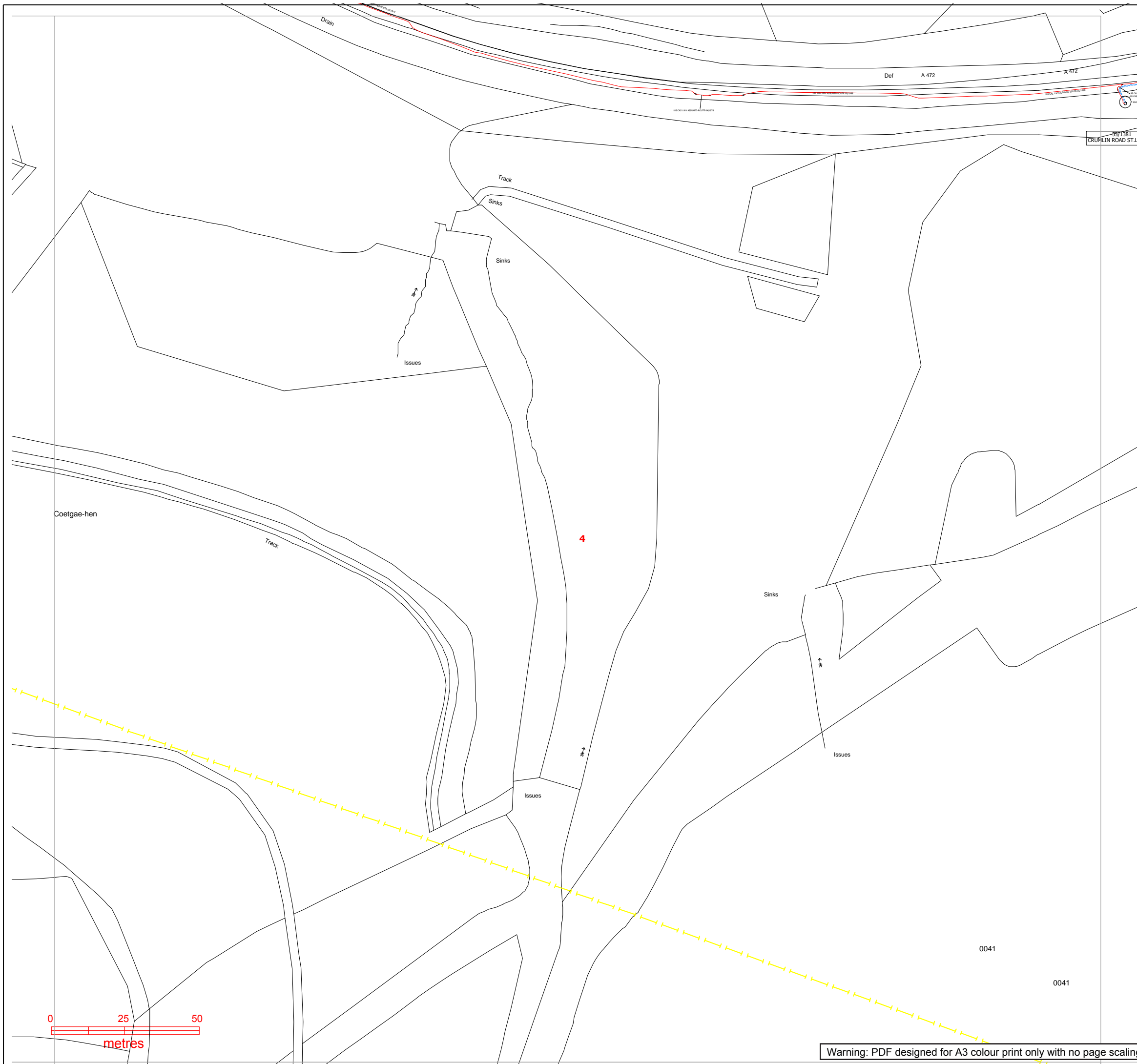
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General Enquiries:

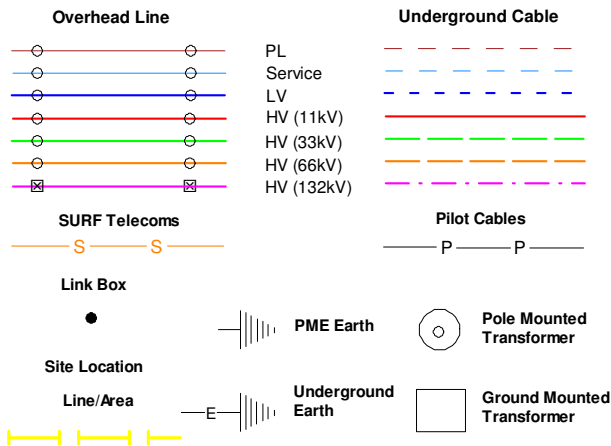
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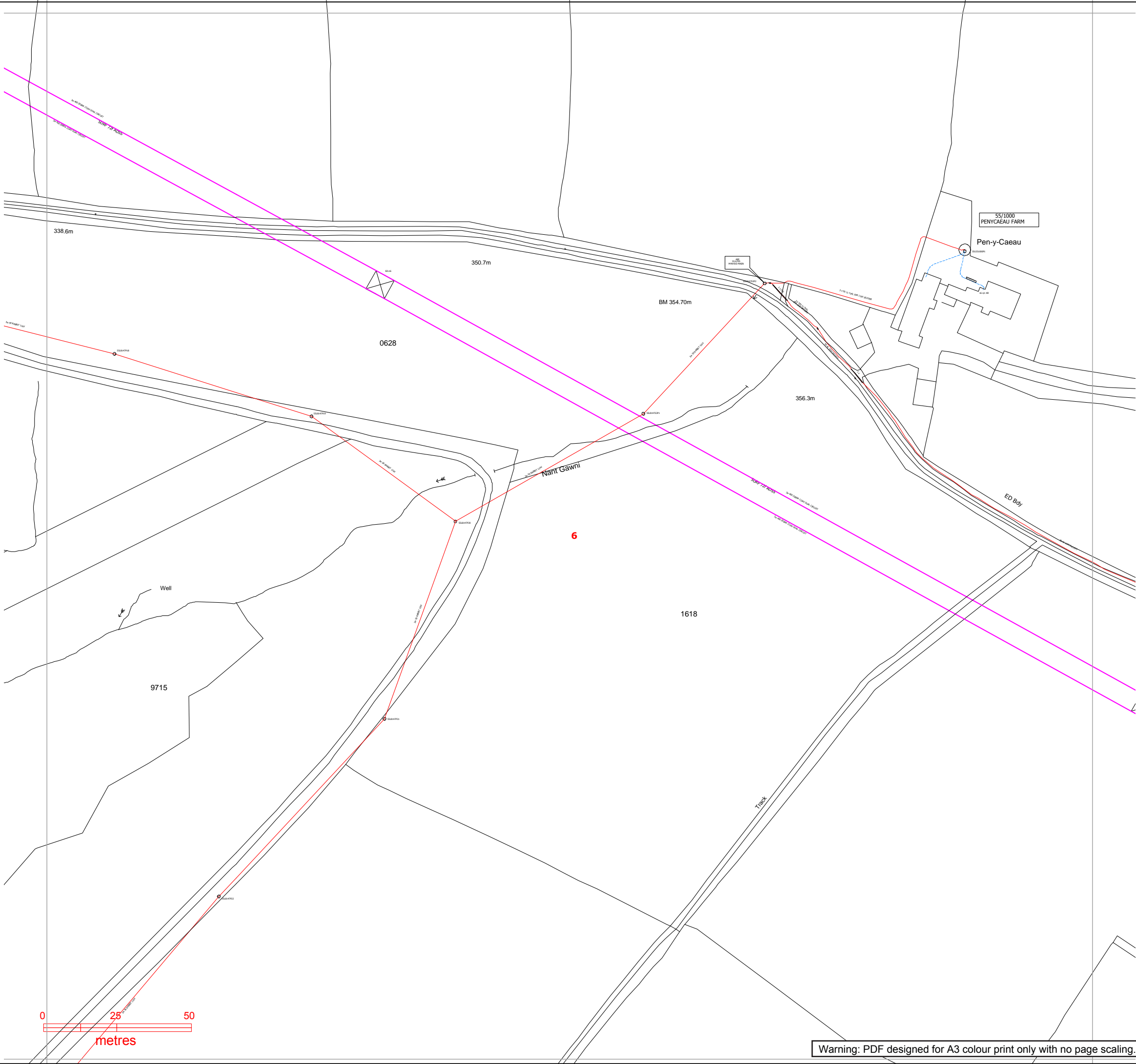
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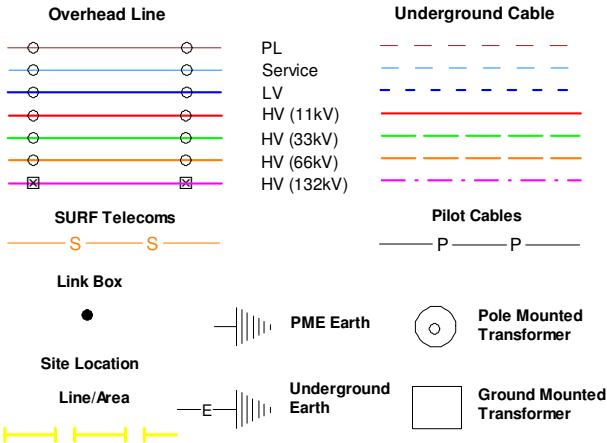
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General Enquiries:

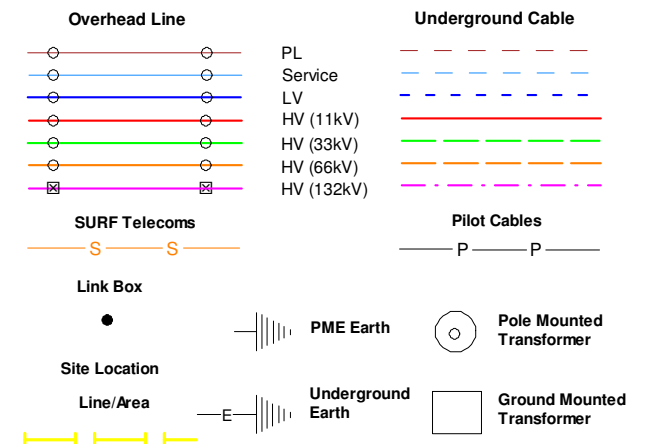
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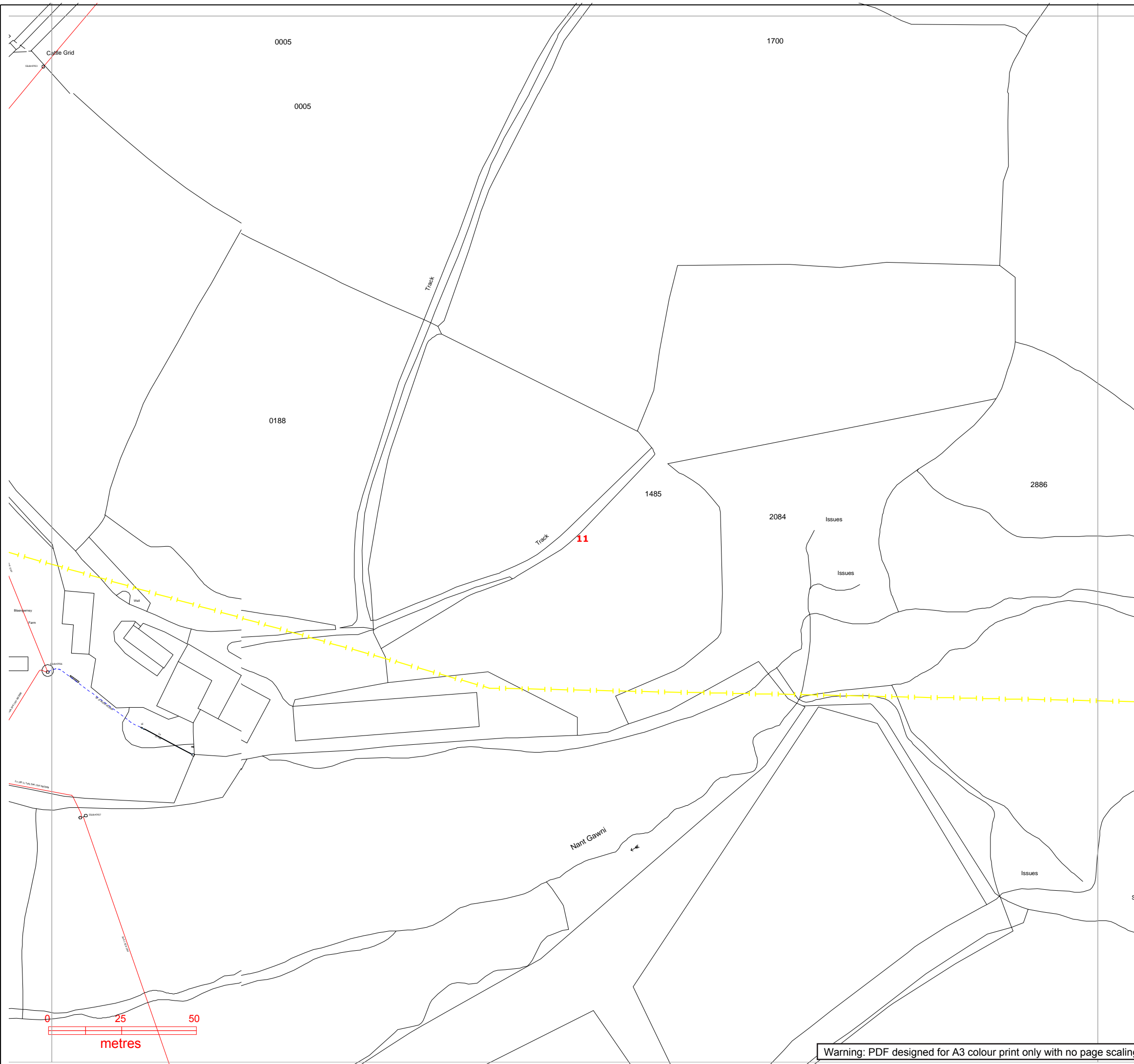
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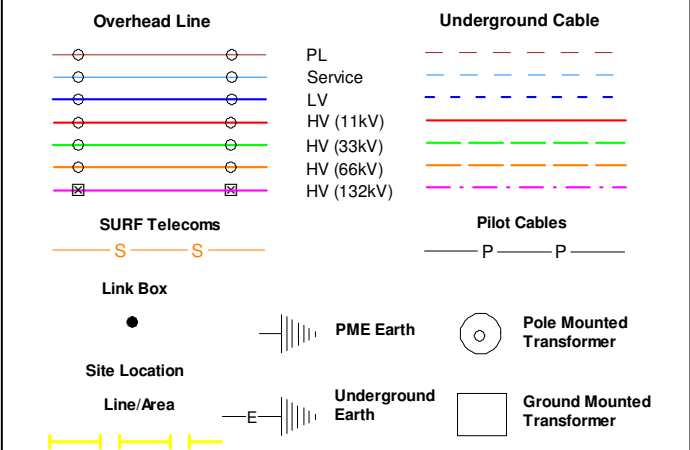
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All areas 0121 623 9780	All areas 0800 096 3080

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Date Requested: 26/07/2021
Job Reference: 22790239
Site Location: 323478 198208
Requested by: Mr Duncan Phillips
Your Scheme/Reference: MynyddMaen g01
Exact Scales:
1:1250 Area or Circle dig site
1:500 Line dig site

IMPORTANT NOTICES

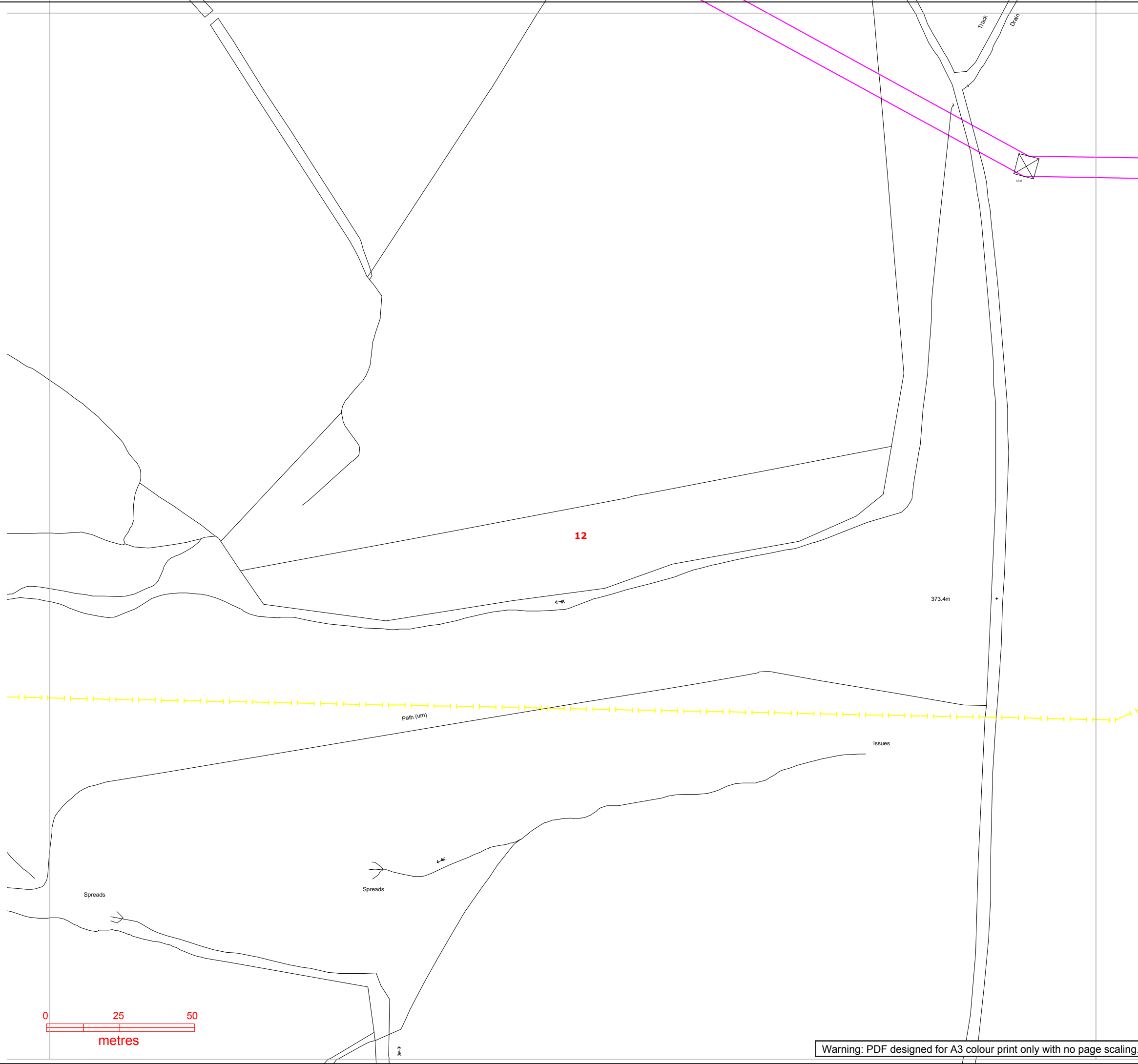
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Contact Us

Mapping Enquiries:

All areas 0121 623 9780

General Enquiries:

All areas 0800 096 3080

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA

0800 6783 105

Date Requested: 26/07/2021

Job Reference: 22790239

Site Location: 323478 198208

Requested by: Mr Duncan Phillips

Your Scheme/Reference: MynyddMaen g01

Exact Scales:

1:1250 Area or Circle dig site

1:500 Line dig site

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Overhead Line		Underground Cable
PL		Underground Cable
Service		LV
LV		HV (11kV)
HV (11kV)		HV (33kV)
HV (33kV)		HV (66kV)
HV (66kV)		HV (132kV)
HV (132kV)		
SURF Telecoms		Pilot Cables
S		P
Link Box		PME Earth
Site Location		Pole Mounted Transformer
Line/Area		Underground Earth
		Ground Mounted Transformer

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Our Ref: 22790264 Your Ref: MynyddMaen g02

Monday, 26 July 2021

Duncan Phillips
91 Market Street
Hoylake
Merseyside
CH47 5AA

Western Power Distribution,
Mapping Centre
Toll End Road
Tipton
West Midlands
United Kingdom
DY4 0HH
www.westernpower.co.uk

Dear Duncan Phillips

Thank you for your enquiry dated Monday, 26 July 2021

I now enclose a copy of our plan showing existing Western Power Distribution (WPD) Electricity / WPD Surf Telecom apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all WPD equipment on site should be assumed to be LIVE until WPD prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Map Response
T 0121 623 9780
WPDMapResponse
@westernpower.co.uk

LinesearchbeforeUdig
Help Desk 0845 437 7365

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either WPD Electrical apparatus or WPD Surf Telecom apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. WPD Surf Telecom ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Western Power Distribution PLC
South West - 02366894
South Wales - 02366985
East Midlands - 02366923
West Midlands - 03600574

Where diversions to WPD apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Registered in
England and Wales

Following consultation the local Western Power Distribution team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

Registered Office:
Avonbank
Feeder Road
Bristol
BS2 0TB

Yours sincerely
WPD Map Response Team

Contact Us

Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

Mapping Enquiries

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 0121 623 9780
Email WPDMapResponse@westernpower.co.uk

General Enquiries

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

LinesearchbeforeUdig

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk

Steps to help keep you safe

- **If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.**

Safety Documents – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete **MUST** be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

Cables are sometimes covered by tiles or a marker tape - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.

Contact Us

Mapping Enquiries:

All areas 0121 623 9780

General Enquiries:

All areas 0800 096 3080

**Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 6783 105**

Date Requested: 26/07/2021

Job Reference: 22790264

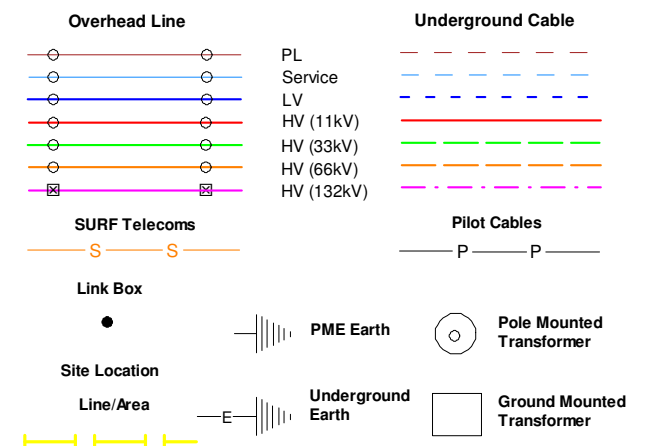
Site Location: 322850 196812

Requested by: Mr Duncan Phillips

Your Scheme/Reference: MynyddMaen g02

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Contact Us

Mapping Enquiries:

All areas0121 623 9780

General Enquiries:

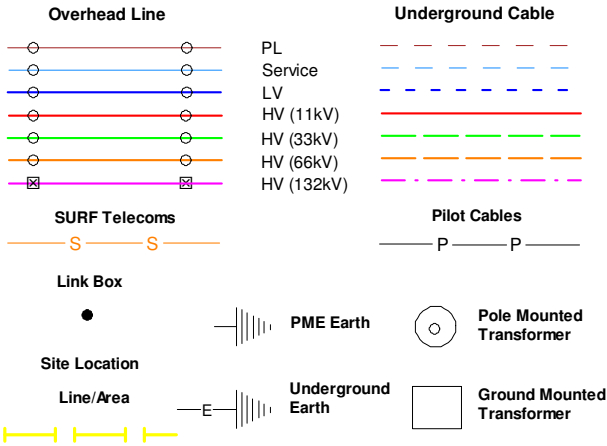
All areas0800 096 3080

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Contact Us

Mapping Enquiries:

All areas	0121 623 9780
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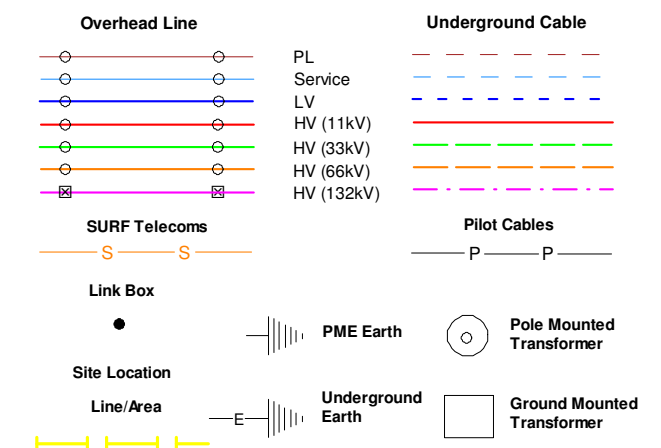
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Nant Hafod-fach

CS

ED Body

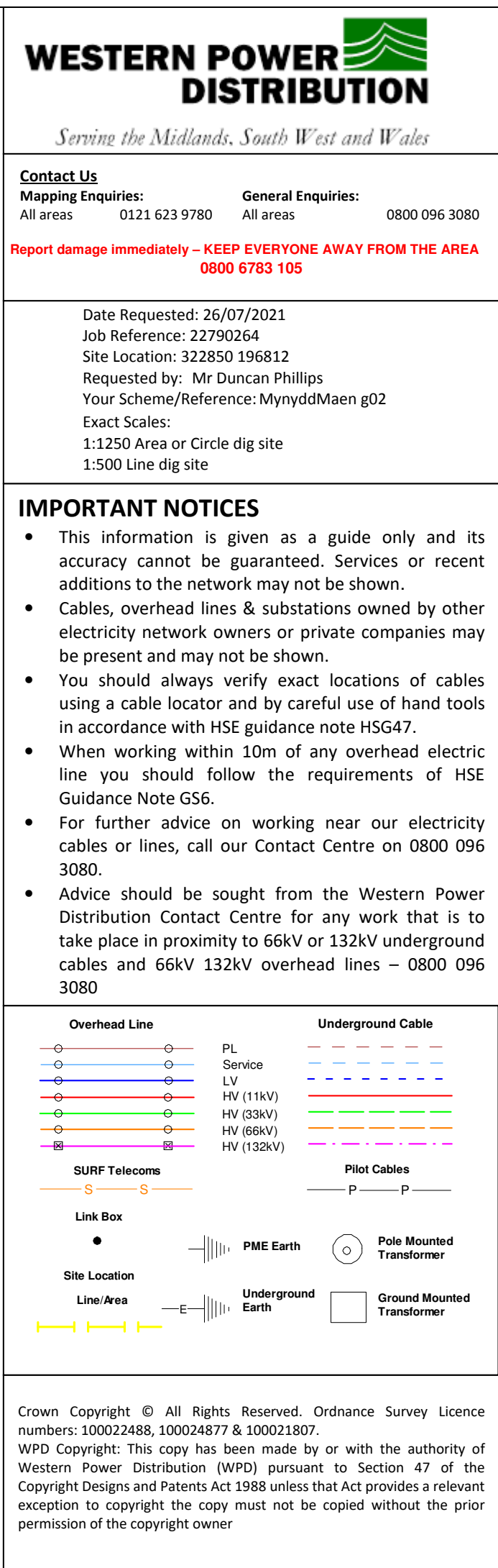
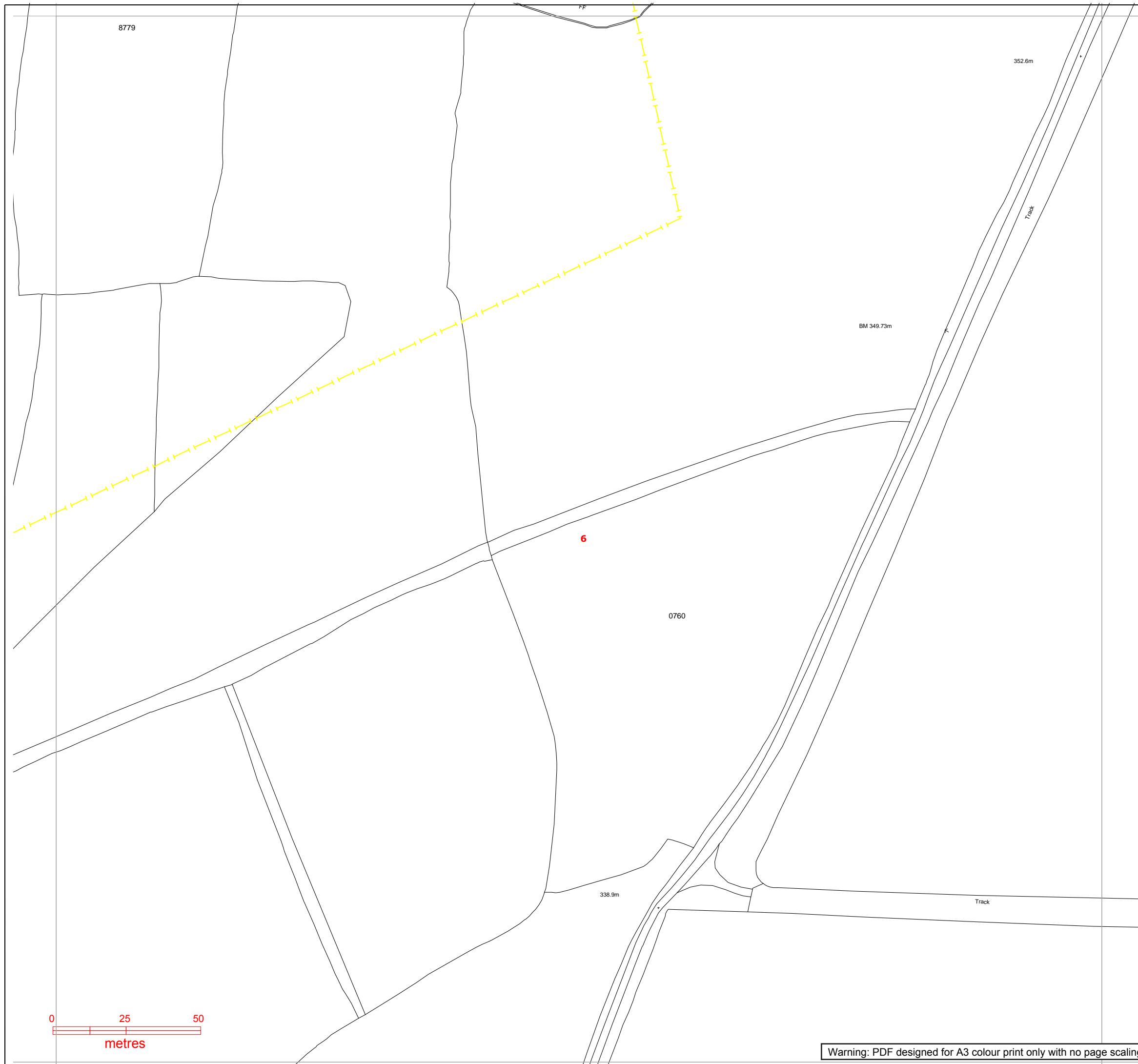
Quarry
andstone)

A number line is shown with markings at 0, 25, and 50. A red box is drawn from 0 to 25, with the word "metres" written below it.

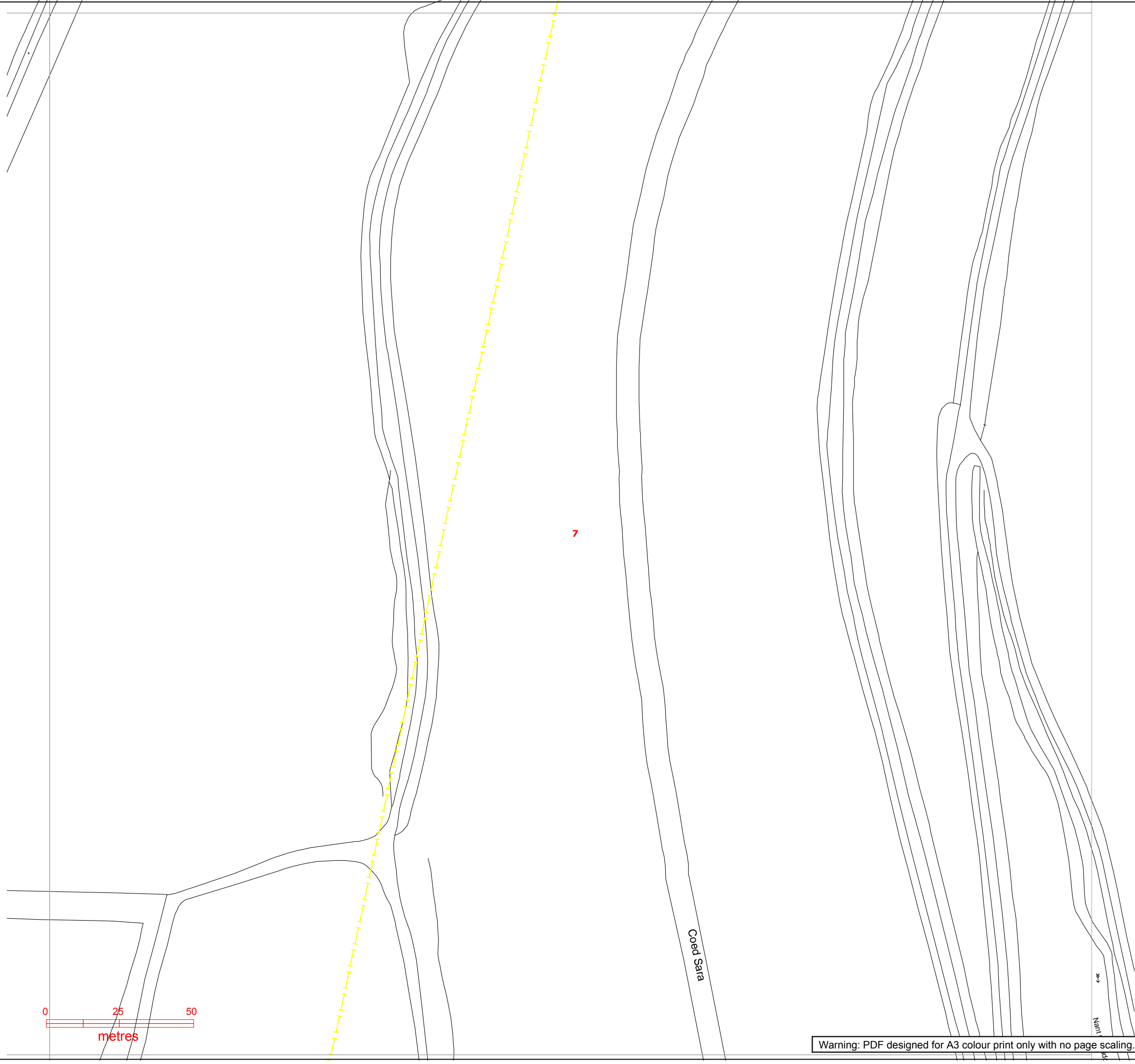
Cattle Grid

Track

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All areas0121 623 9780

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All areas0800 096 3080

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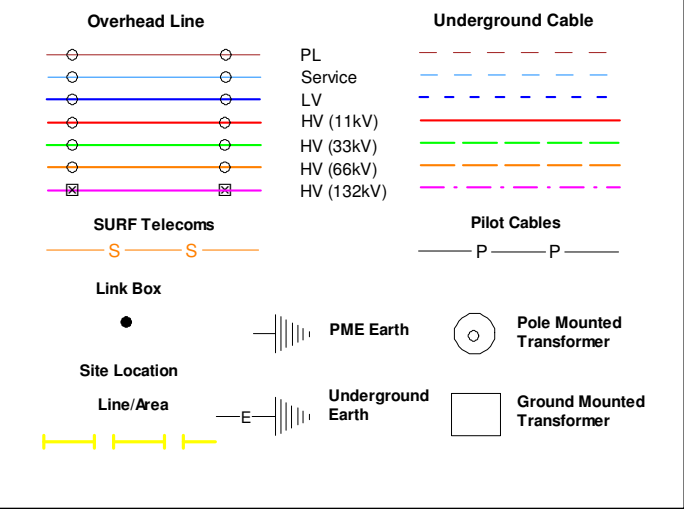
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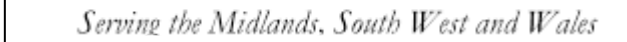
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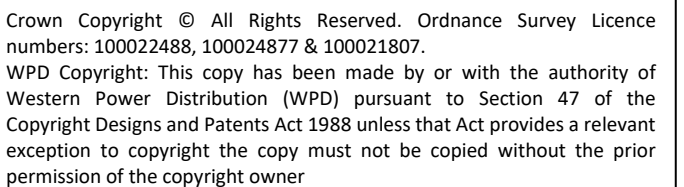




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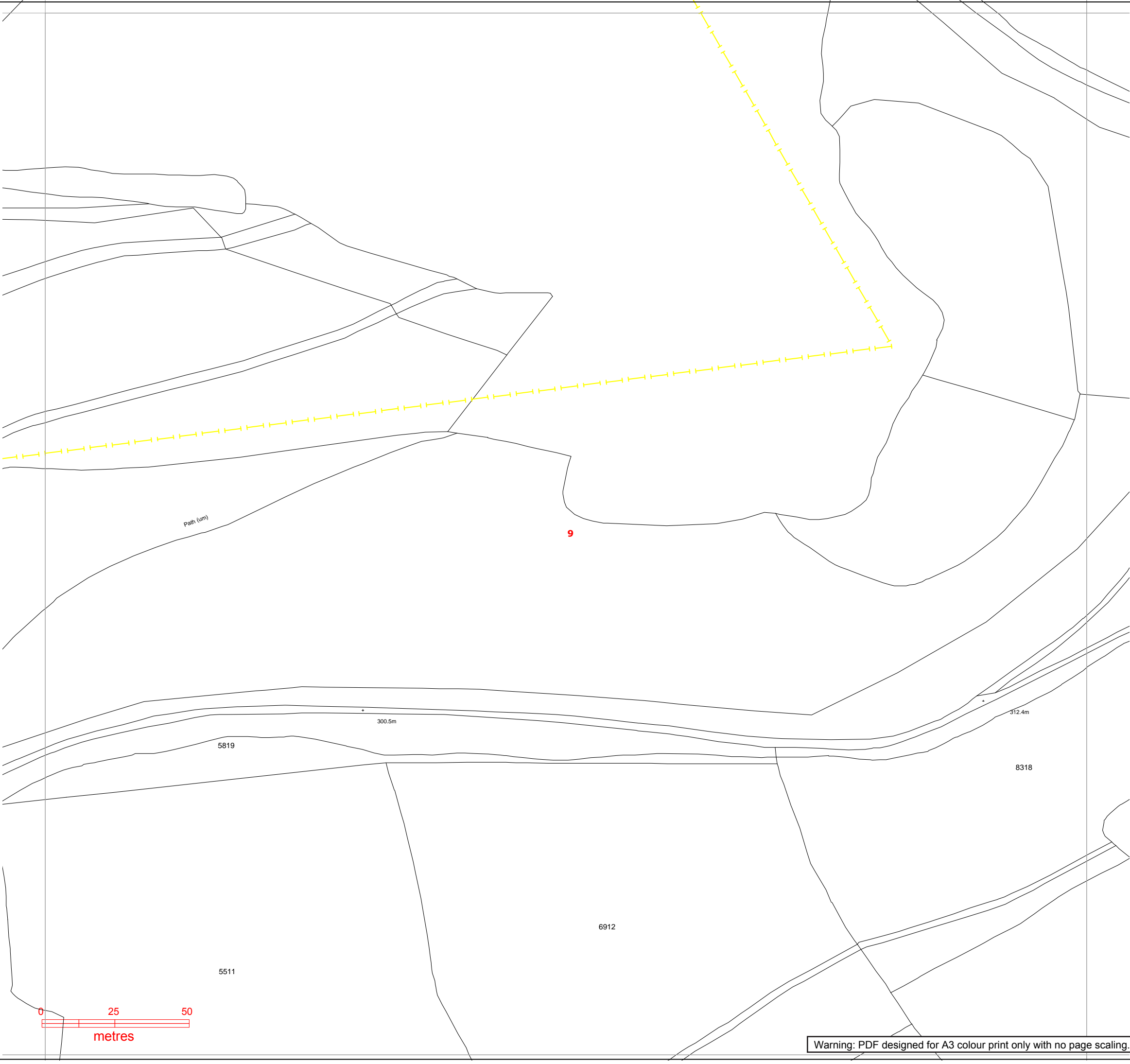
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Overhead Line

PL

Service

LV

HV (11kV)

HV (33kV)

HV (66kV)

HV (132kV)

Pilot Cables

P

P

SURF Telecoms

S

S

Link Box

Site Location

Line/Area

PME Earth

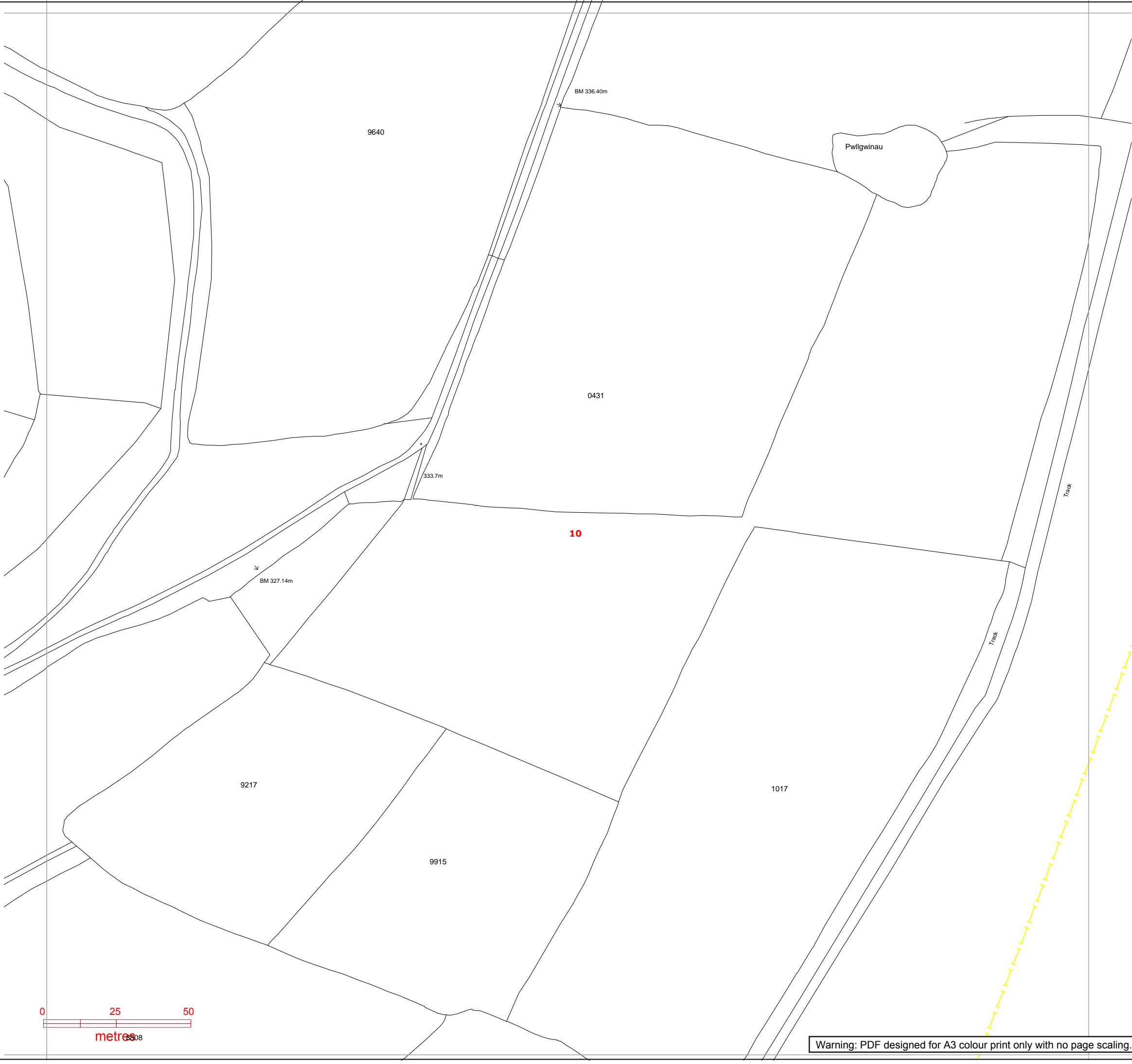
Underground Earth

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Service

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HV (11kV)

HV (33kV)

HV (66kV)

HV (132kV)

SURF Telecoms

S

S

Link Box

Site Location

Line/Area

PME Earth

Underground Earth

Pole Mounted Transformer

Ground Mounted Transformer

Underground Cable

P

P

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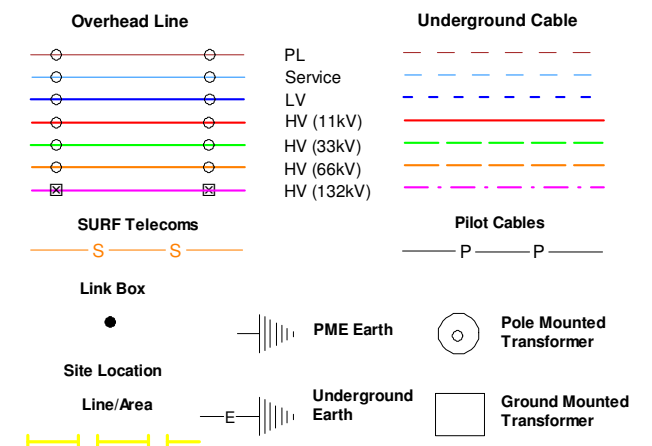
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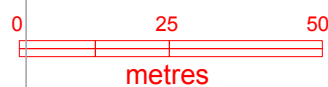


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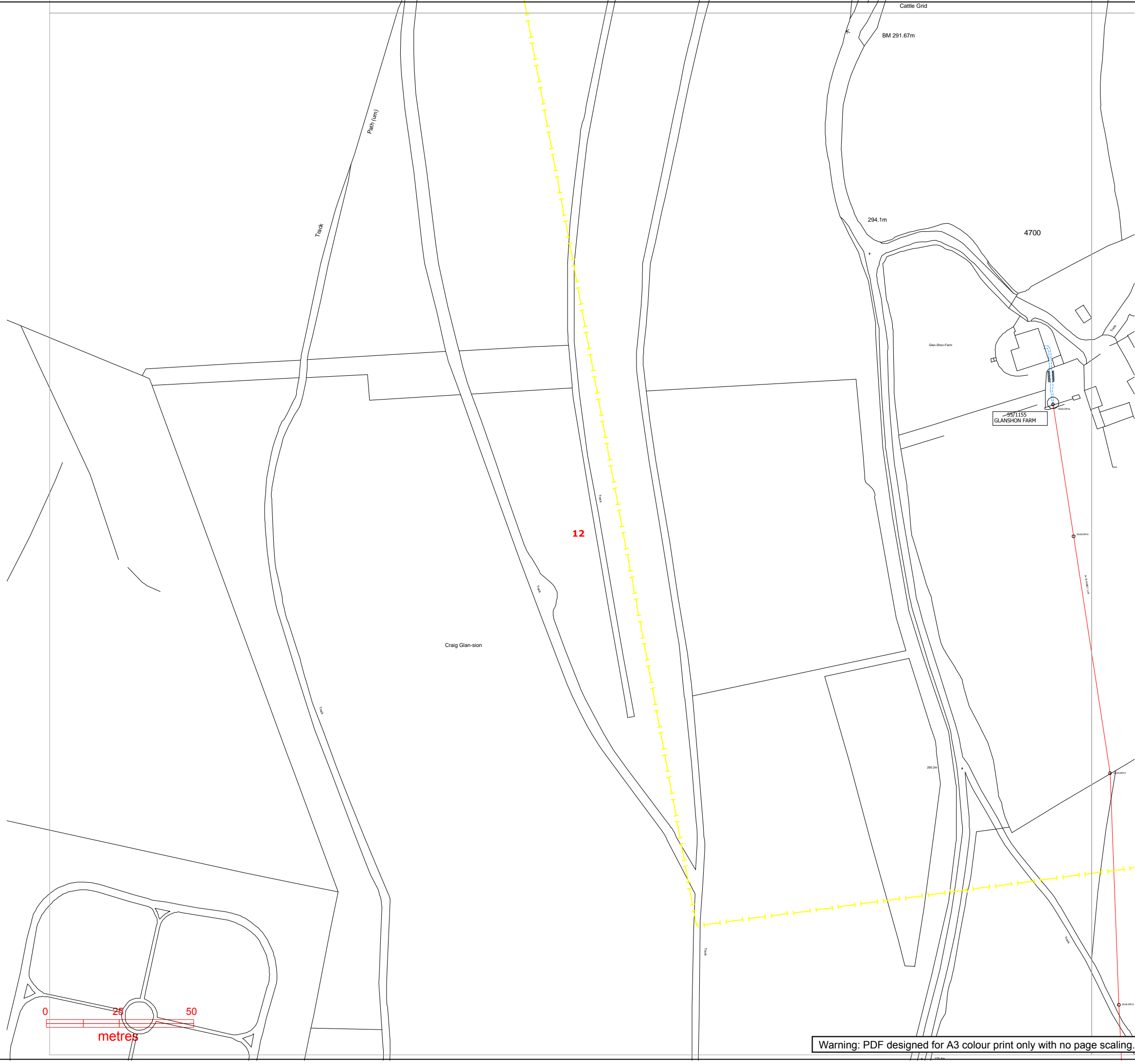
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PL

Service

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HV (11kV)

HV (33kV)

HV (66kV)

HV (132kV)

Underground Cable

PL

Service

LV

HV (11kV)

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HV (66kV)

HV (132kV)

SURF Telecoms

S

S

Pilot Cables

P

P

Link Box

Site Location

Line/Area

PME Earth

Underground Earth

Pole Mounted Transformer

Ground Mounted Transformer

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Serving the Midlands, South West and Wales

Contact Us

Mapping Enquiries:

All areas	0121 623 9780
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General Enquiries:

All areas	0800 096 3080
-----------	---------------

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 6783 105

Date Requested: 26/07/2021

Job Reference: 22790264

Site Location: 322850 196812

Requested by: Mr Duncan Phillips

Your Scheme/Reference: MynyddMaen g02

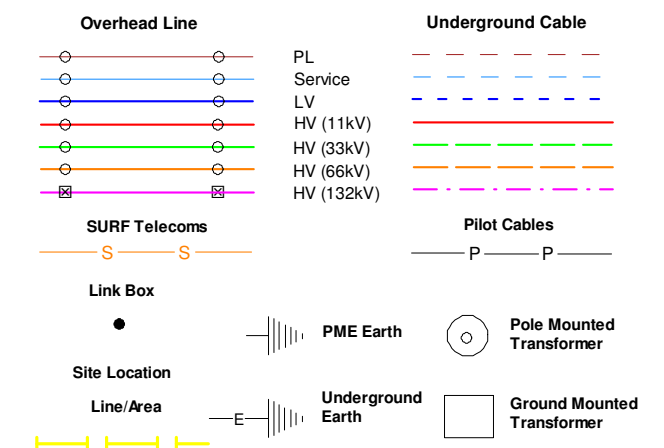
Exact Scales:

1:1250 Area or Circle dig site

1:500 Line dig site

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Mapping Enquiries:

All areas 0121 623 9780

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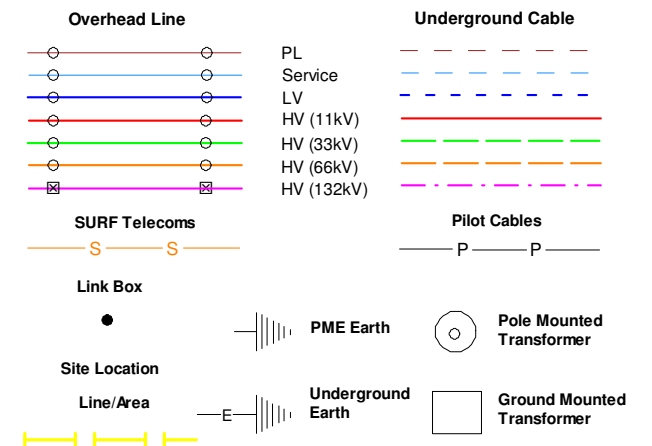
All areas 0800 096 3080

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Our Ref: 22790287 Your Ref: MynyddMaen g03

Monday, 26 July 2021

Duncan Phillips
91 Market Street
Hoylake
Merseyside
CH47 5AA

Western Power Distribution,
Mapping Centre
Toll End Road
Tipton
West Midlands
United Kingdom
DY4 0HH
www.westernpower.co.uk

Dear Duncan Phillips

Thank you for your enquiry dated Monday, 26 July 2021

I now enclose a copy of our plan showing existing Western Power Distribution (WPD) Electricity / WPD Surf Telecom apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all WPD equipment on site should be assumed to be LIVE until WPD prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Map Response
T 0121 623 9780
WPDMapResponse
@westernpower.co.uk

LinesearchbeforeUdig
Help Desk 0845 437 7365

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either WPD Electrical apparatus or WPD Surf Telecom apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. WPD Surf Telecom ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Western Power Distribution PLC
South West - 02366894
South Wales - 02366985
East Midlands - 02366923
West Midlands - 03600574

Where diversions to WPD apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Registered in
England and Wales

Following consultation the local Western Power Distribution team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

Registered Office:
Avonbank
Feeder Road
Bristol
BS2 0TB

Yours sincerely
WPD Map Response Team

Contact Us

Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

Mapping Enquiries

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 0121 623 9780
Email WPDMapResponse@westernpower.co.uk

General Enquiries

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

LinesearchbeforeUdig

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk

Steps to help keep you safe

- **If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.**

Safety Documents – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

Cables are sometimes covered by tiles or a marker tape - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.

Contact Us

Mapping Enquiries:

All areas0121 623 9780

General Enquiries:

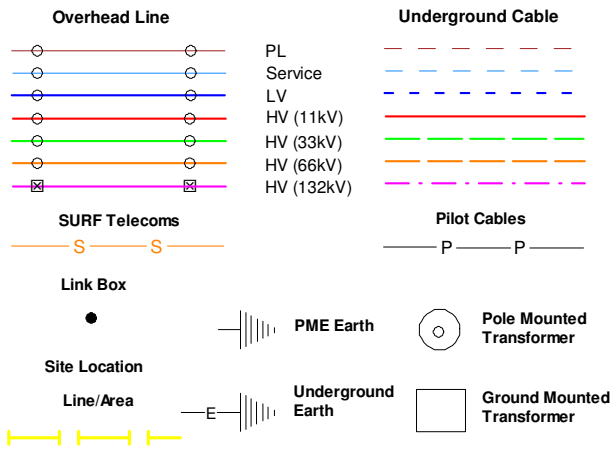
All areas0800 096 3080

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 6783 105

Date Requested: 26/07/2021
Job Reference: 22790287
Site Location: 323268 195265
Requested by: Mr Duncan Phillips
Your Scheme/Reference: MynyddMaen g03

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All areas 0121 623 9780

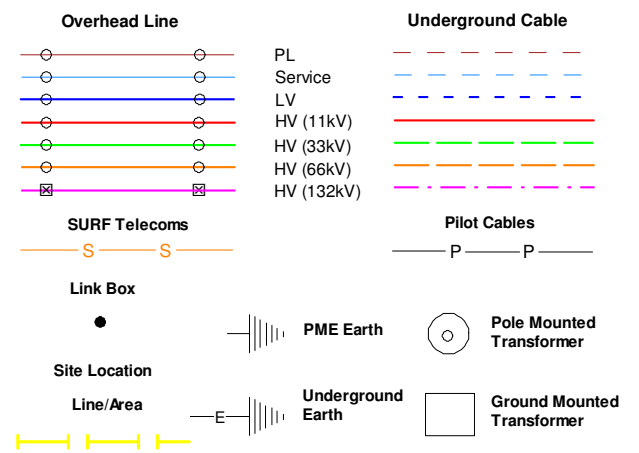
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Contact Us

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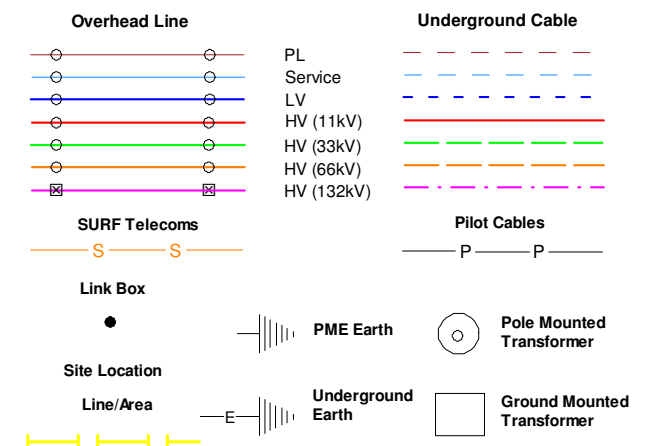
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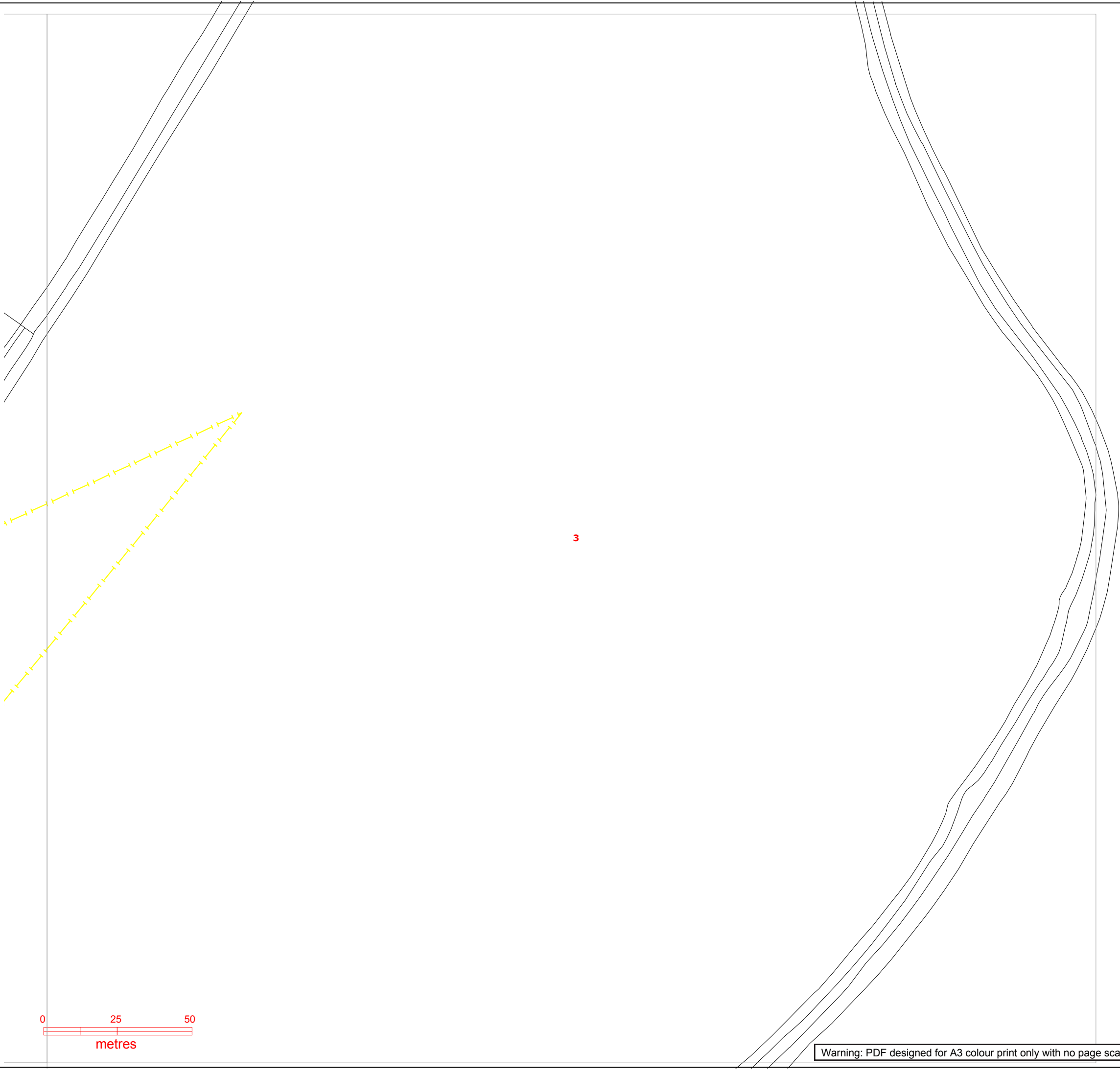
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All areas

0121 623 9780

General Enquiries:

All areas

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Overhead Line

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PL

Service

LV

HV (11kV)

HV (33kV)

HV (66kV)

HV (132kV)

—S—

S

S—

Link Box

●

Site Location

Line/Area

—E—

E

Underground Cable

P

P---

Pilot Cables

P

P

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⊙

Pole Mounted Transformer

Ground Mounted Transformer

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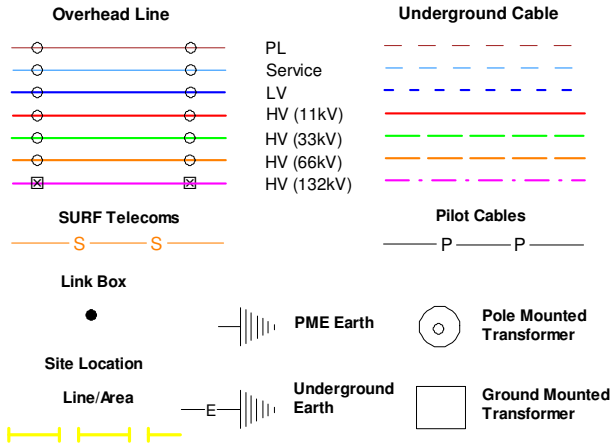
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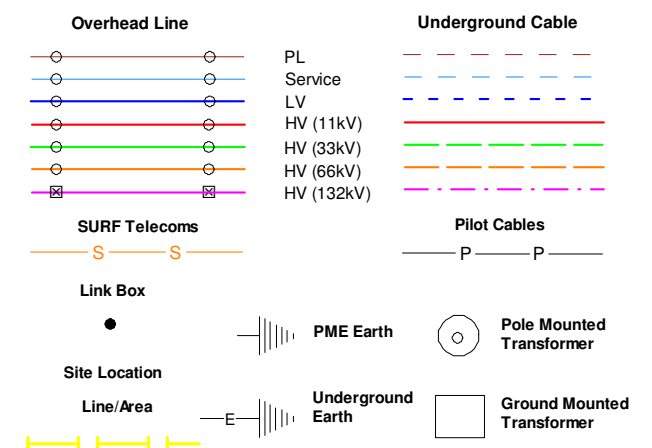
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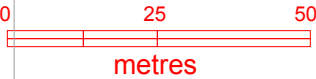
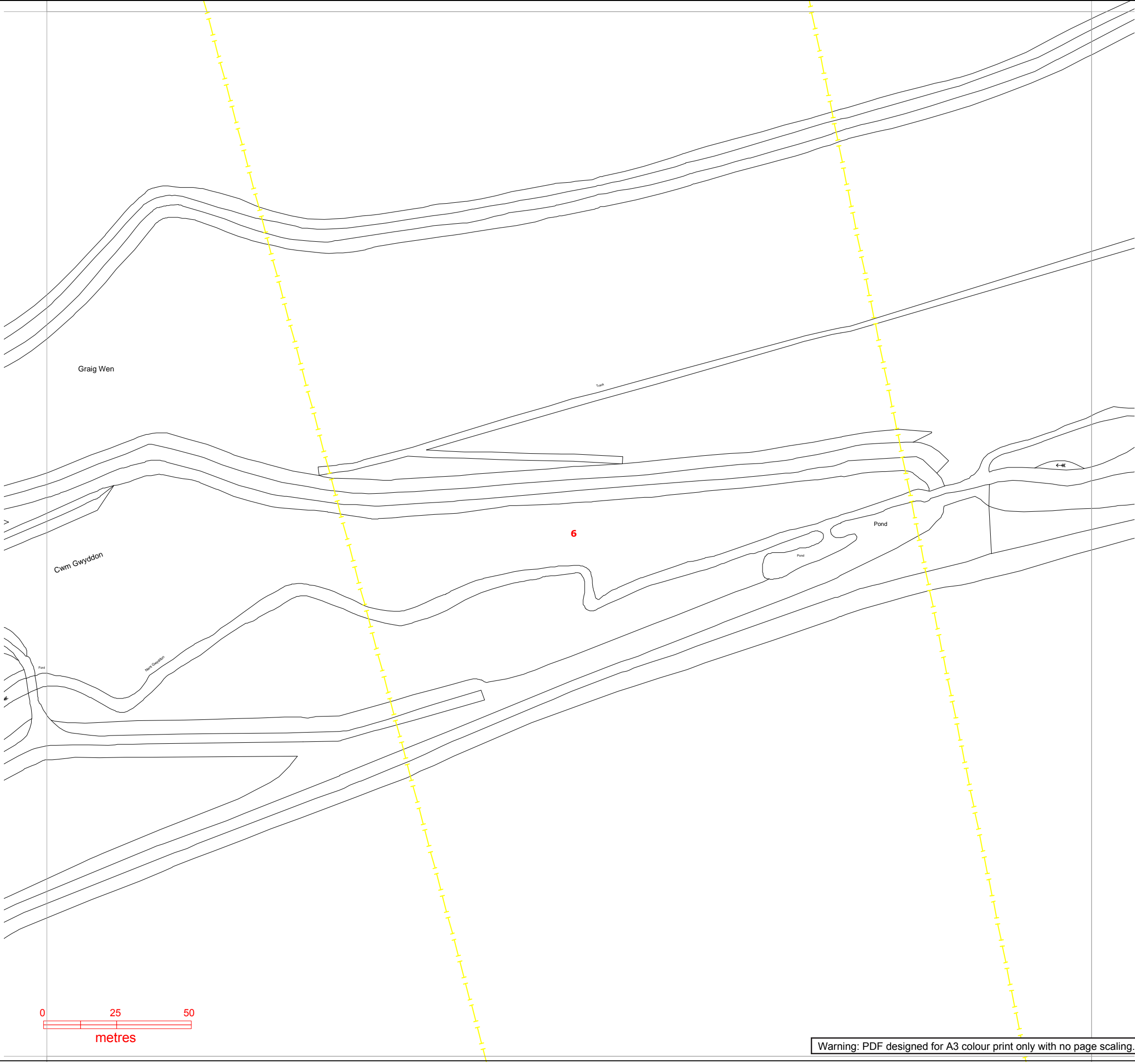
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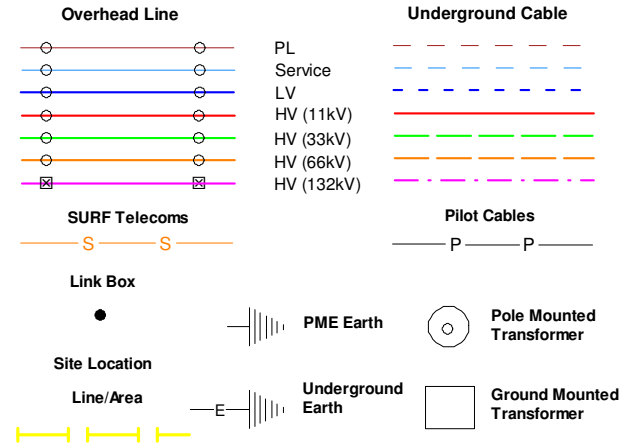
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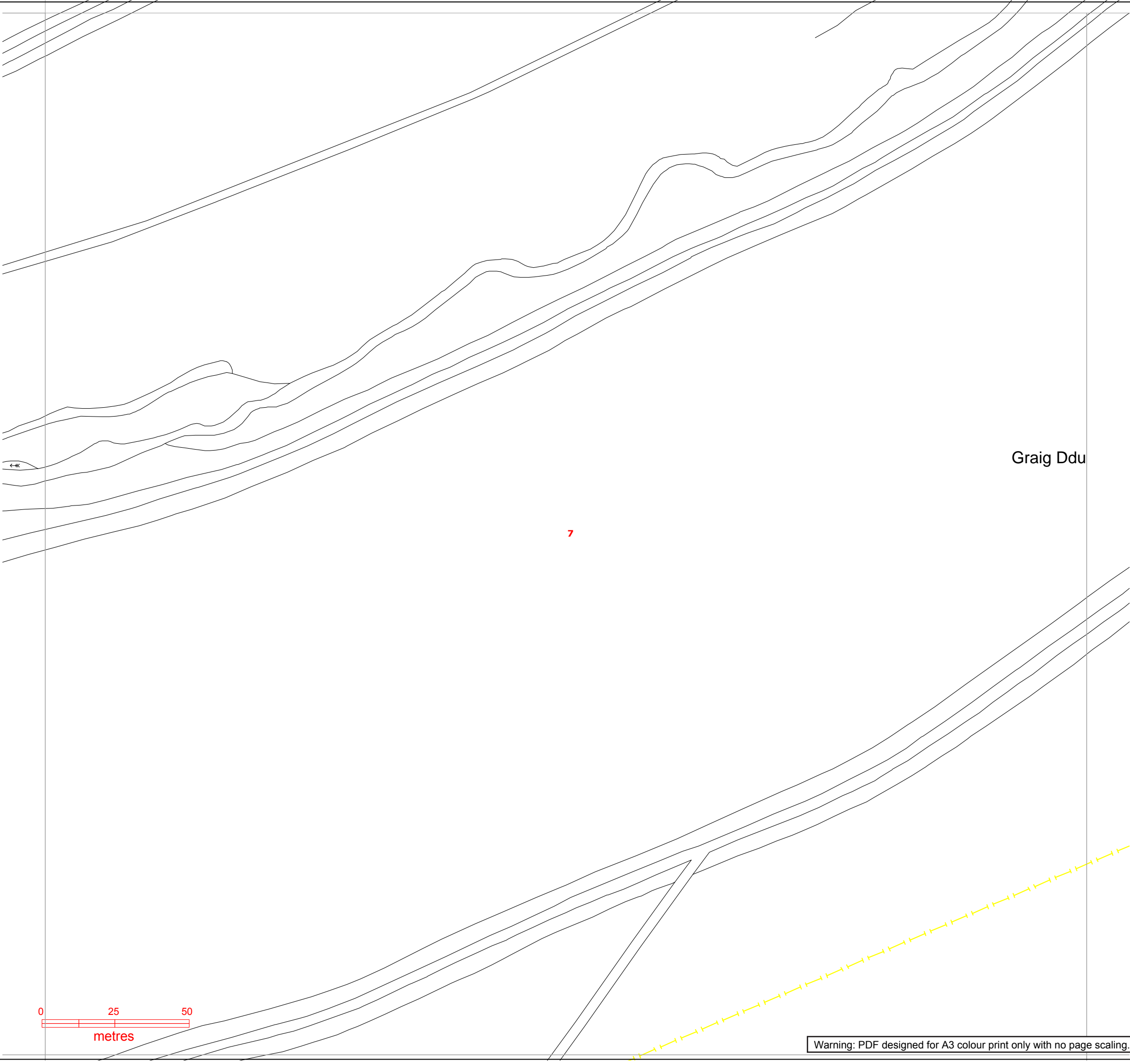
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Overhead Line

PL

Service

LV

HV (11kV)

HV (33kV)

HV (66kV)

HV (132kV)

SURF Telecoms

Link Box

Site Location

Line/Area

Underground Cable

Pilot Cables

PME Earth

Underground Earth

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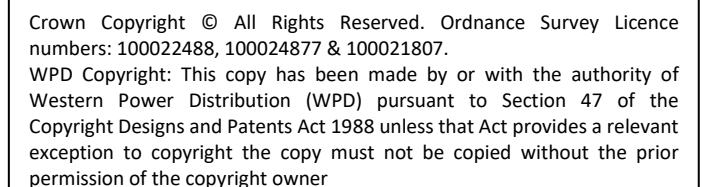
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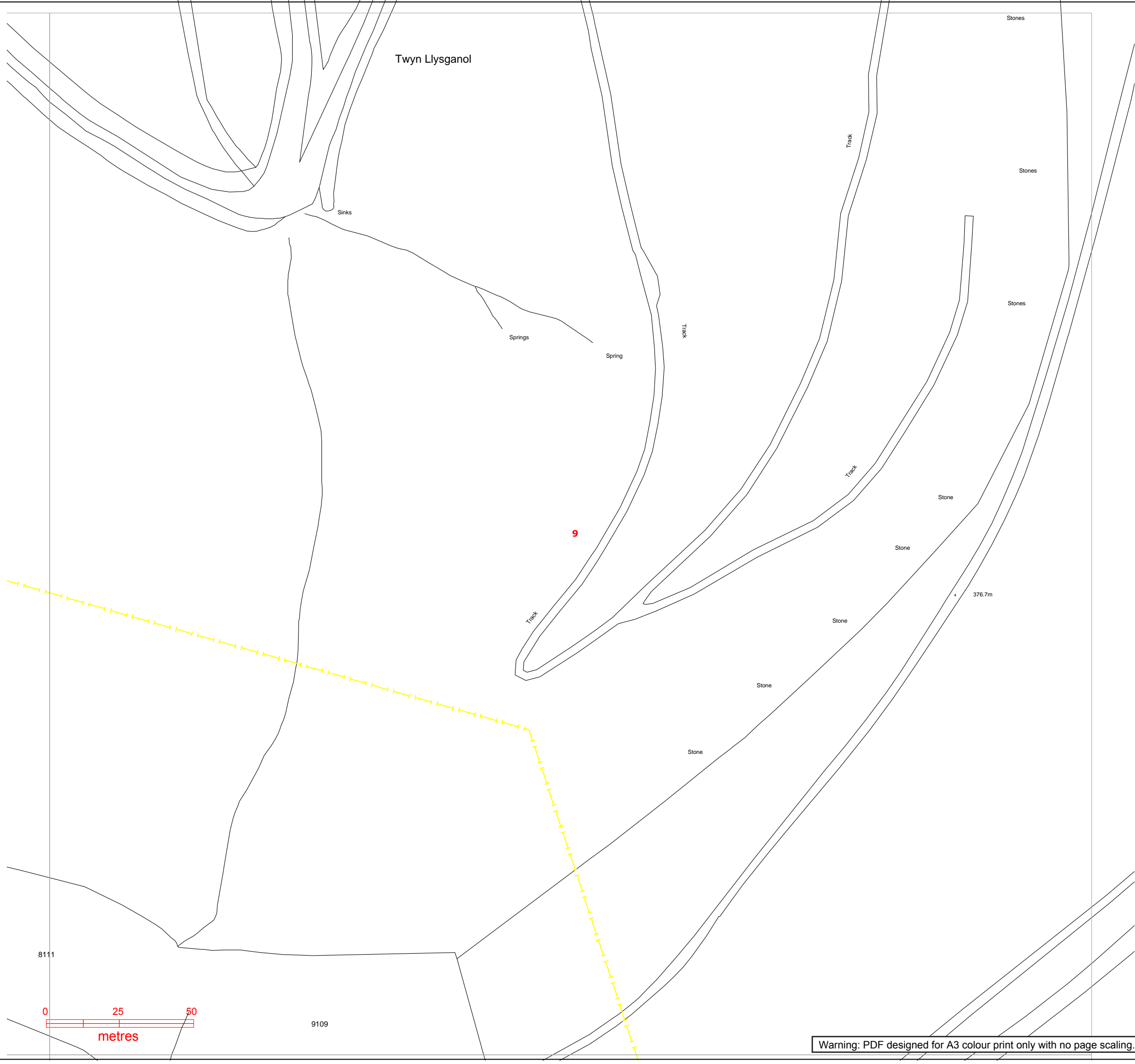
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1:500 Line dig site

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- Advice should be sought from the Western Power Distribution Contact Centre for any work that is to take place in proximity to 66kV or 132kV underground cables and 66kV 132kV overhead lines – 0800 096 3080



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WESTERN POWER

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Serving the Midlands, South West and Wales

Contact Us

Mapping Enquiries:

All areas0121 623 9780

General Enquiries:

All areas0800 096 3080

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA

0800 6783 105

Date Requested: 26/07/2021

Job Reference: 22790287

Site Location: 323268 195265

Requested by: Mr Duncan Phillips

Your Scheme/Reference: MynyddMaen g03

Exact Scales:

1:1250 Area or Circle dig site

1:500 Line dig site

- IMPORTANT NOTICES

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Overhead Line

PL

Service

LV

HV (11kV)

HV (33kV)

HV (66kV)

HV (132kV)

SURF Telecoms

S

S

Link Box

Site Location

Line/Area

PME Earth

Underground Earth

Pole Mounted Transformer

Ground Mounted Transformer

Underground Cable

P

P

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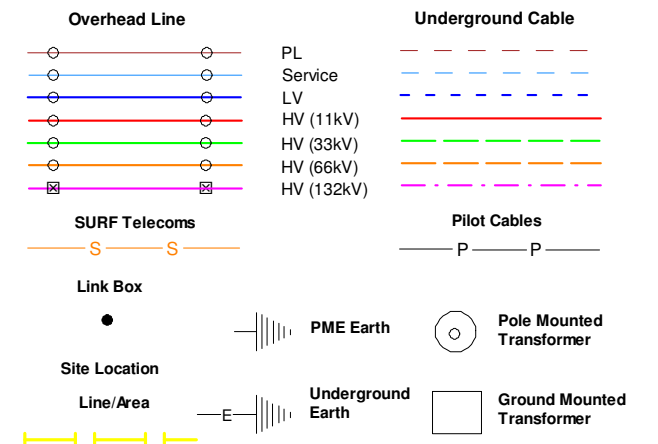
Exact Scales:

1:1250 Area or Circle dig site

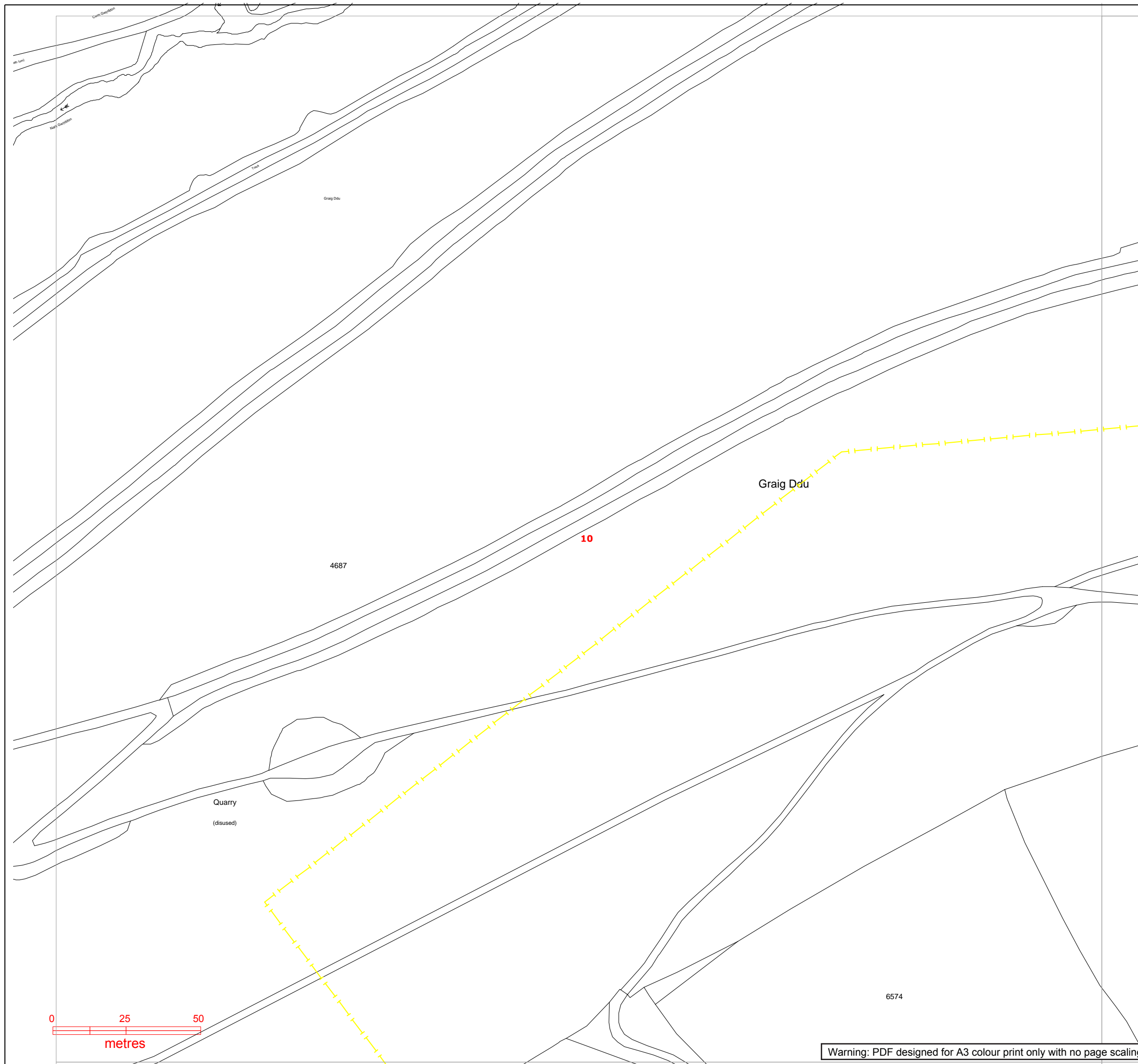
1:500 Line dig site

IMPORTANT NOTICES

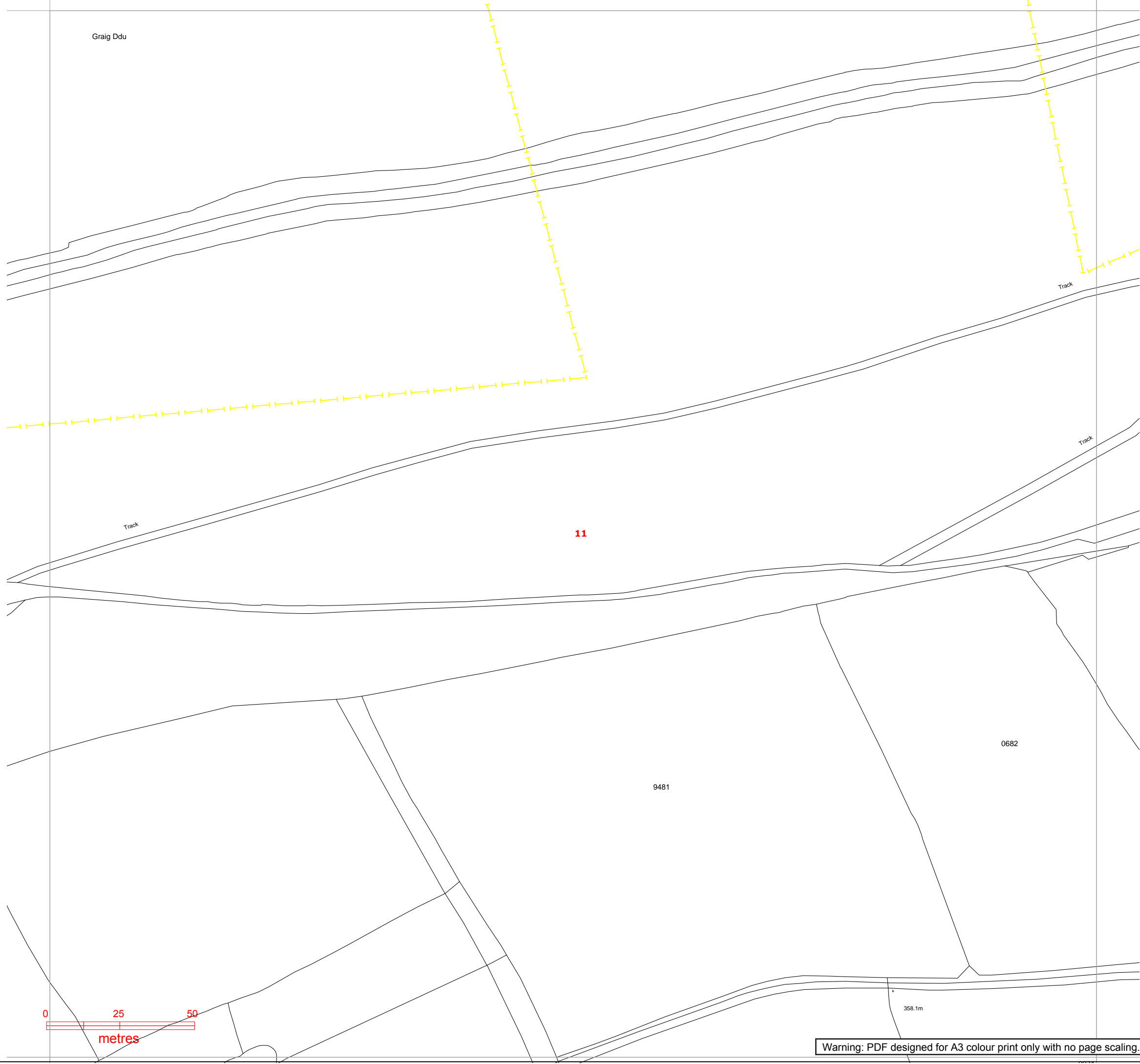
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Overhead Line

PL

Service

LV

HV (11kV)

HV (33kV)

HV (66kV)

HV (132kV)

SURF Telecoms

S

S

Link Box

Site Location

Line/Area

Underground Cable

P

P

PME Earth

Underground Earth

Pole Mounted Transformer

Ground Mounted Transformer

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General Enquiries:

All areas

0121 623 9780

All areas

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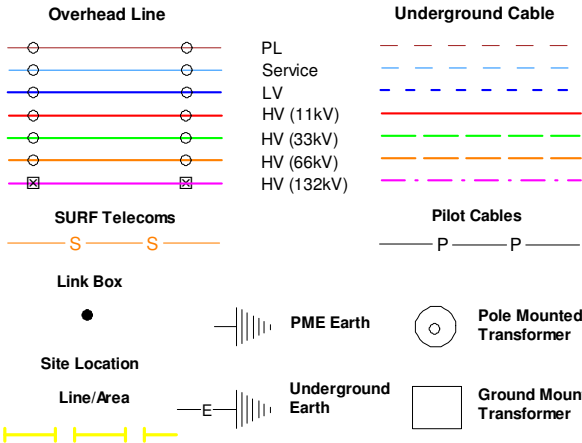
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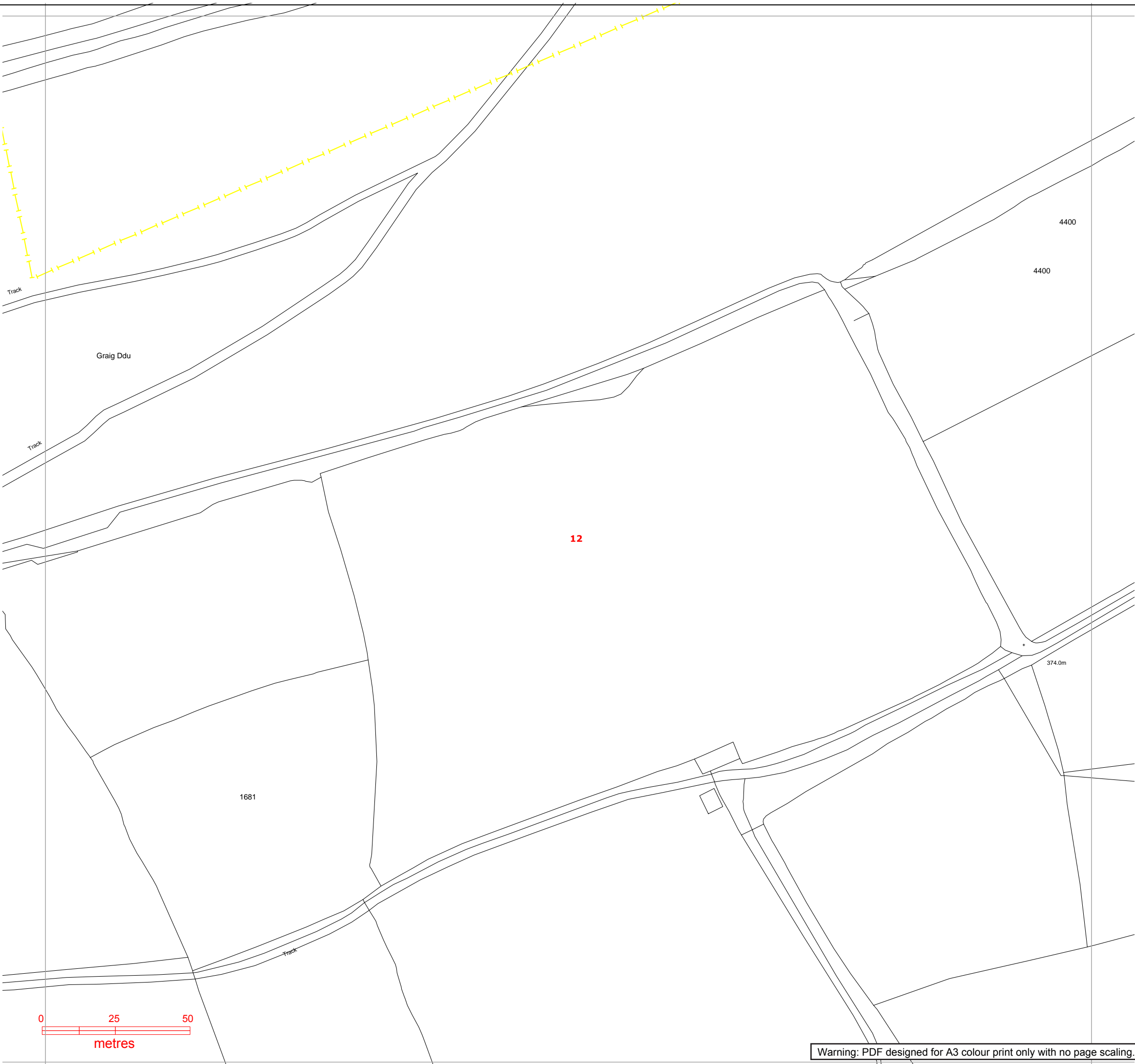
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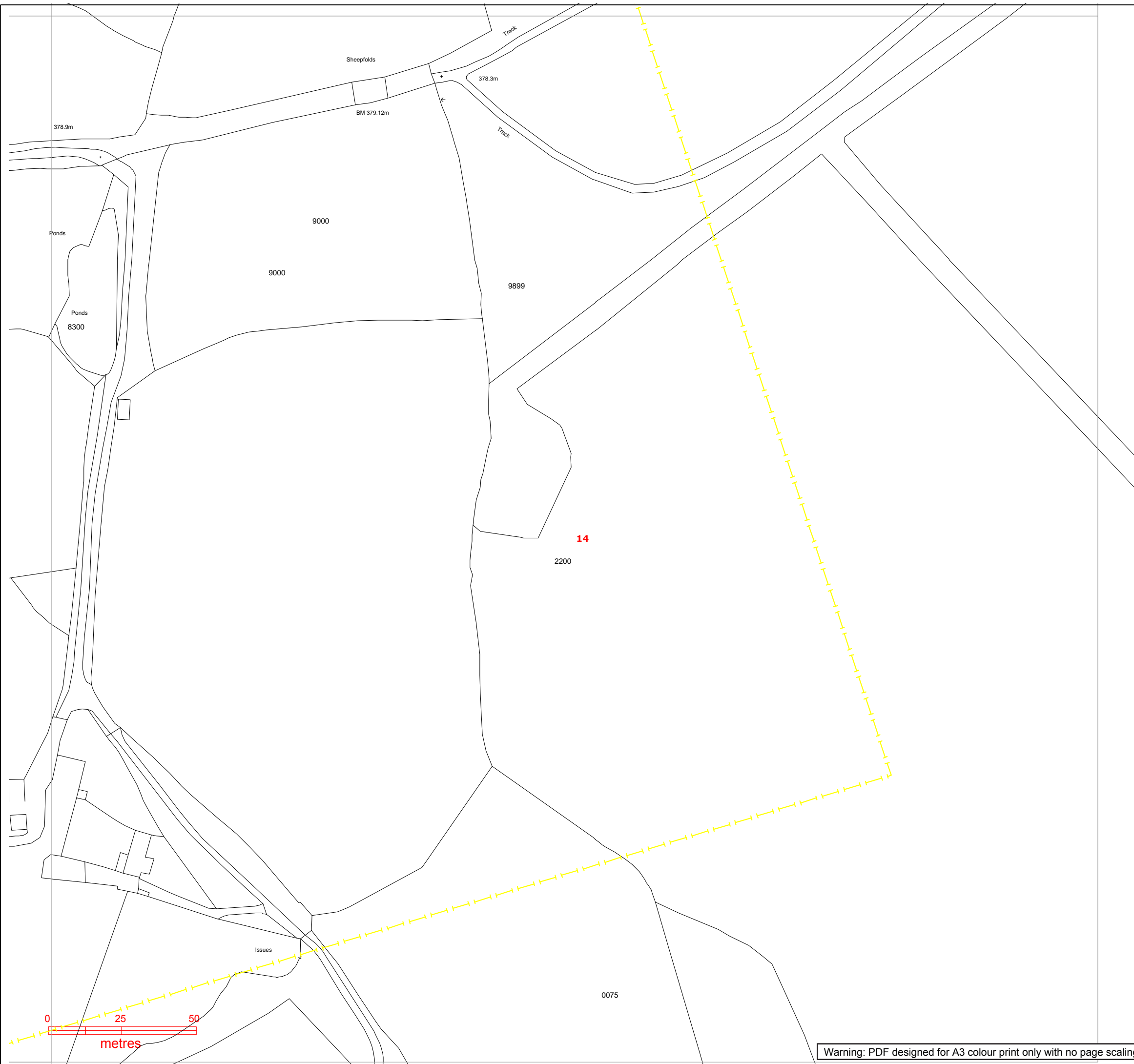
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Contact Us

Mapping Enquiries:	General Enquiries:
All areas 0121 623 9780	All areas 0800 096 3080

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Overhead Line

PL
Service
LV
HV (11kV)
HV (33kV)
HV (66kV)
HV (132kV)

SURF Telecoms

S S

Link Box

●

Site Location

Line/Area

Overhead Cable

Pilot Cables

P P

PME Earth

Pole Mounted Transformer

Underground Earth

Ground Mounted Transformer

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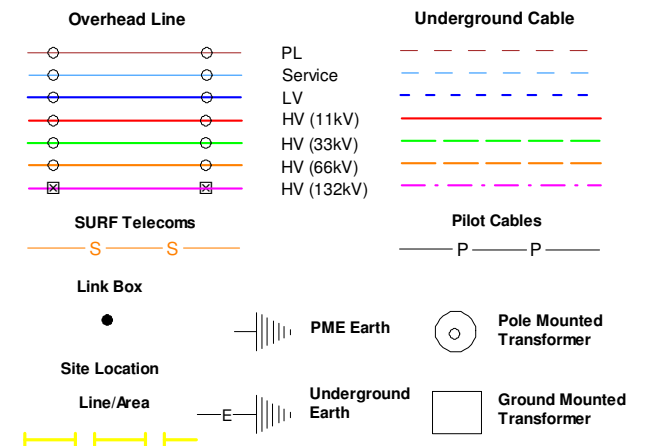
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Cefn Rhyswg

Bwthyn Mangu

Stabal To Carreg

55/1032
RHYSWG FAWR FARM

Tri Carreg

15

6245

55/3365
RHYSWG BARN

3640


4639

0 25 50
metres

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Serving the Midlands, South West and Wales

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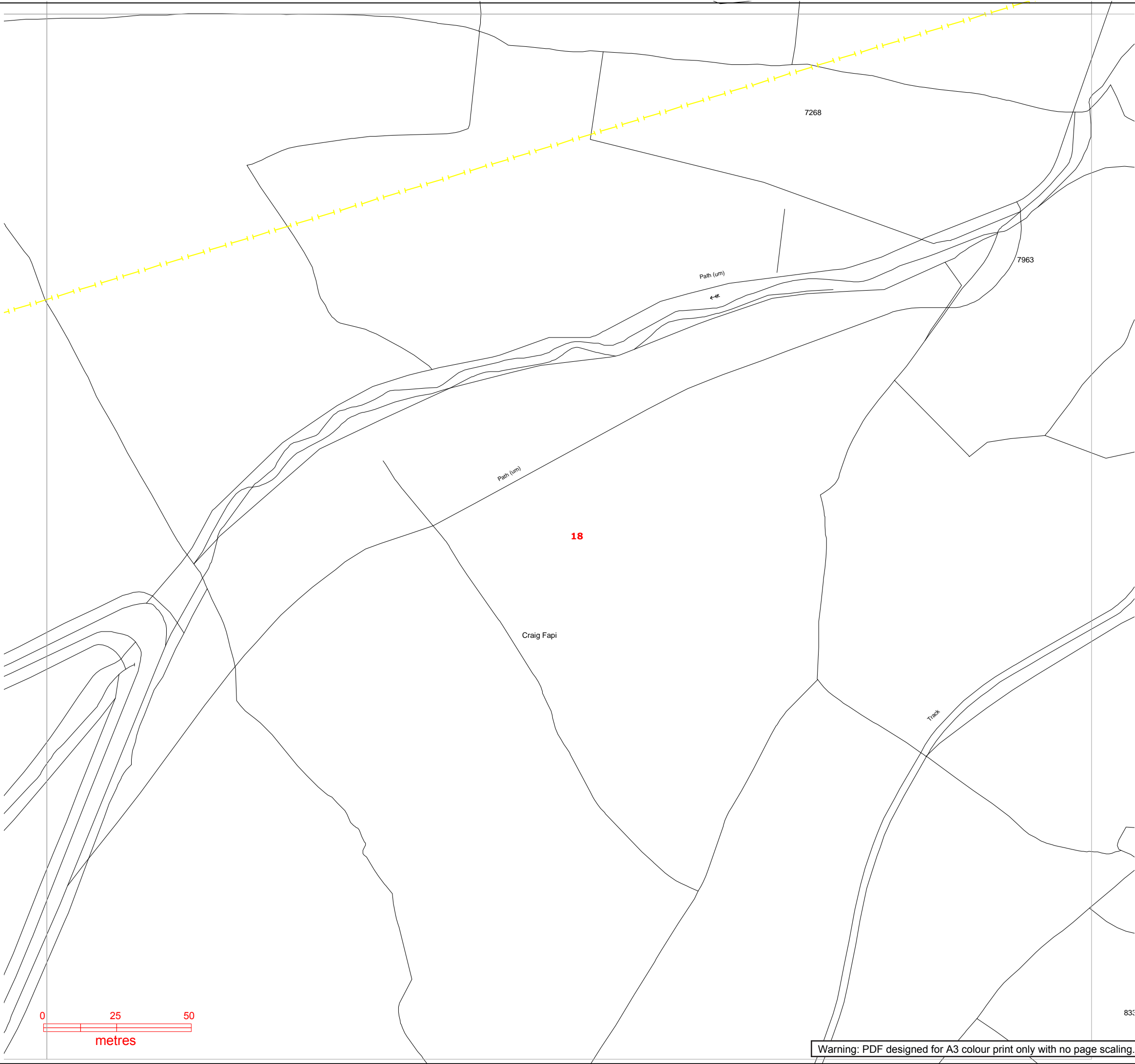
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Overhead Line		Underground Cable	
	PL		
	Service		
	LV		
	HV (11kV)		
	HV (33kV)		
	HV (66kV)		
	HV (132kV)		
SURF Telecoms		Pilot Cables	
	S		P
Link Box		Pole Mounted Transformer	
Site Location		Ground Mounted Transformer	
	Line/Area		

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Serving the Midlands, South West and Wales

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All areas 0121 623 9780

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Overhead Line		Underground Cable	
	PL		PL
	Service		Service
	LV		LV
	HV (11kV)		HV (11kV)
	HV (33kV)		HV (33kV)
	HV (66kV)		HV (66kV)
	HV (132kV)		HV (132kV)
SURF Telecoms		Pilot Cables	
Link Box		PME Earth	
Site Location		Underground Earth	
Line/Area			

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Our Ref: 22790295 Your Ref: MynyddMaen g04

Monday, 26 July 2021

Duncan Phillips
91 Market Street
Hoylake
Merseyside
CH47 5AA

Western Power Distribution,
Mapping Centre
Toll End Road
Tipton
West Midlands
United Kingdom
DY4 0HH
www.westernpower.co.uk

Dear Duncan Phillips

Thank you for your enquiry dated Monday, 26 July 2021

I now enclose a copy of our plan showing existing Western Power Distribution (WPD) Electricity / WPD Surf Telecom apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all WPD equipment on site should be assumed to be LIVE until WPD prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Map Response
T 0121 623 9780
WPDMapResponse
@westernpower.co.uk

LinesearchbeforeUdig
Help Desk 0845 437 7365

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either WPD Electrical apparatus or WPD Surf Telecom apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. WPD Surf Telecom ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Western Power Distribution PLC
South West - 02366894
South Wales - 02366985
East Midlands - 02366923
West Midlands - 03600574

Where diversions to WPD apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Registered in
England and Wales

Following consultation the local Western Power Distribution team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

Registered Office:
Avonbank
Feeder Road
Bristol
BS2 0TB

Yours sincerely
WPD Map Response Team

Contact Us

Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

Mapping Enquiries

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 0121 623 9780
Email WPDMapResponse@westernpower.co.uk

General Enquiries

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

LinesearchbeforeUdig

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk

Steps to help keep you safe

- **If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.**

Safety Documents – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

Cables are sometimes covered by tiles or a marker tape - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.

Contact Us

Mapping Enquiries:

All areas0121 623 9780

General Enquiries:

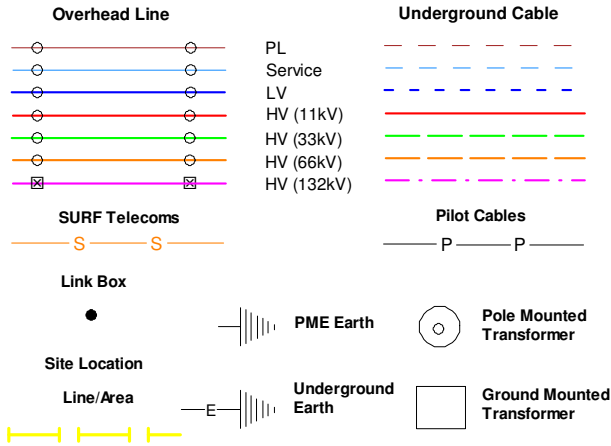
All areas0800 096 3080

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 6783 105

Date Requested: 26/07/2021
Job Reference: 22790295
Site Location: 323771 194533
Requested by: Mr Duncan Phillips
Your Scheme/Reference: MynyddMaen g04

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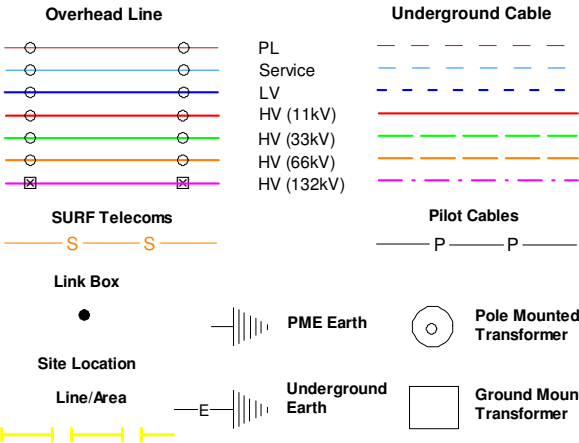
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1:500 Line dig site

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Contact Us
Mapping Enquiries:
All areas

General Enquiries:
All areas

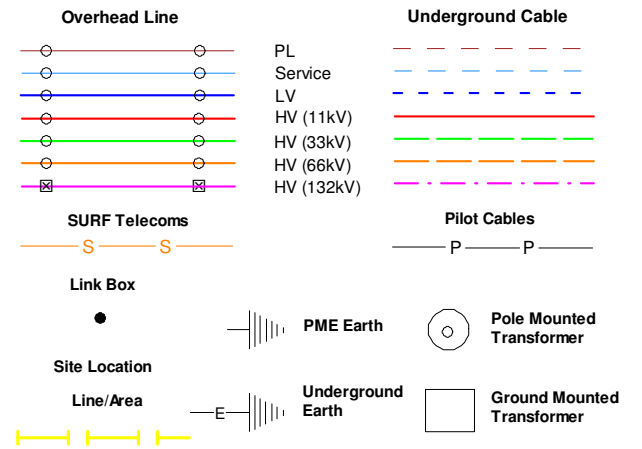
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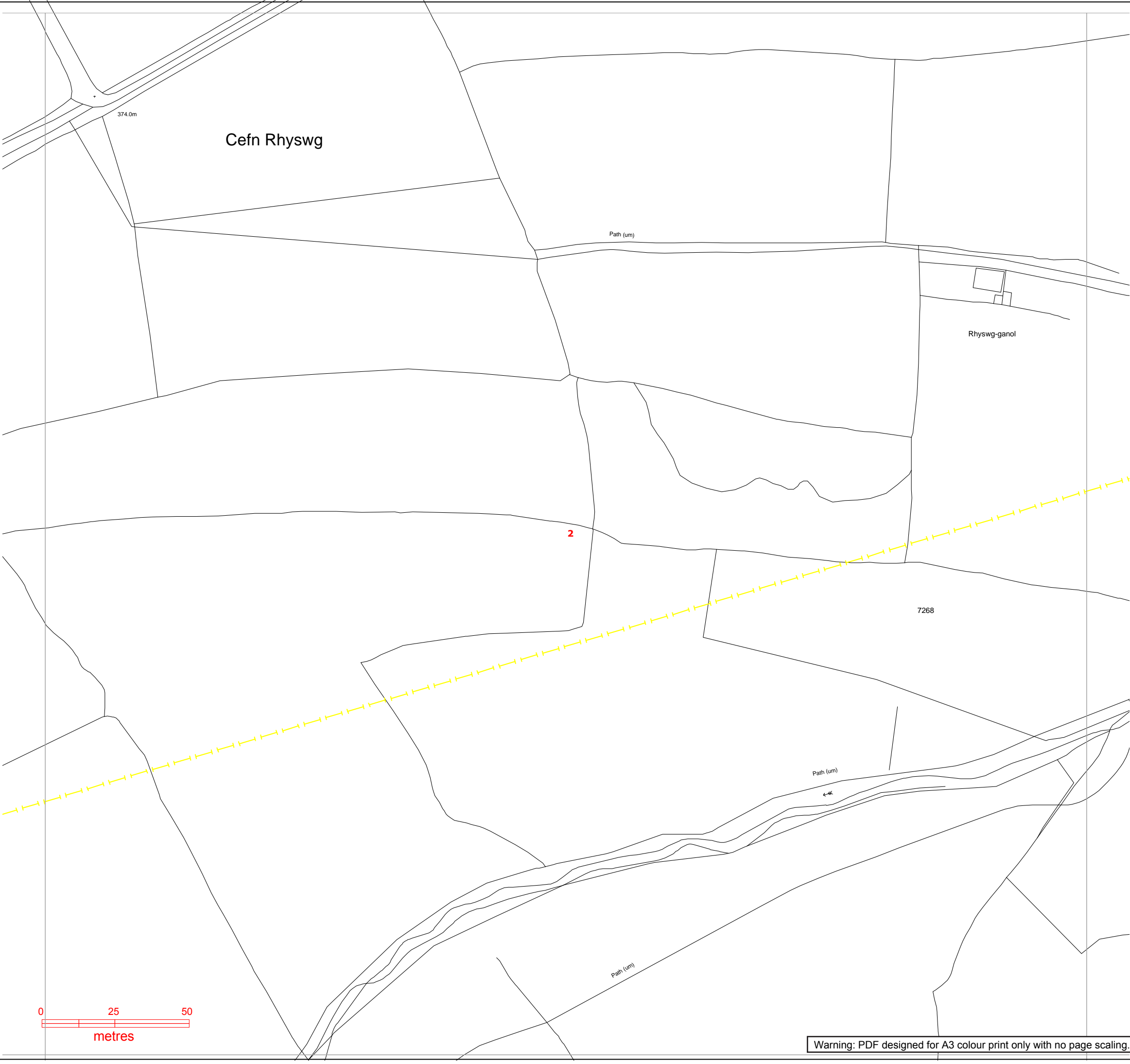
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1:500 Line dig site

IMPORTANT NOTICES

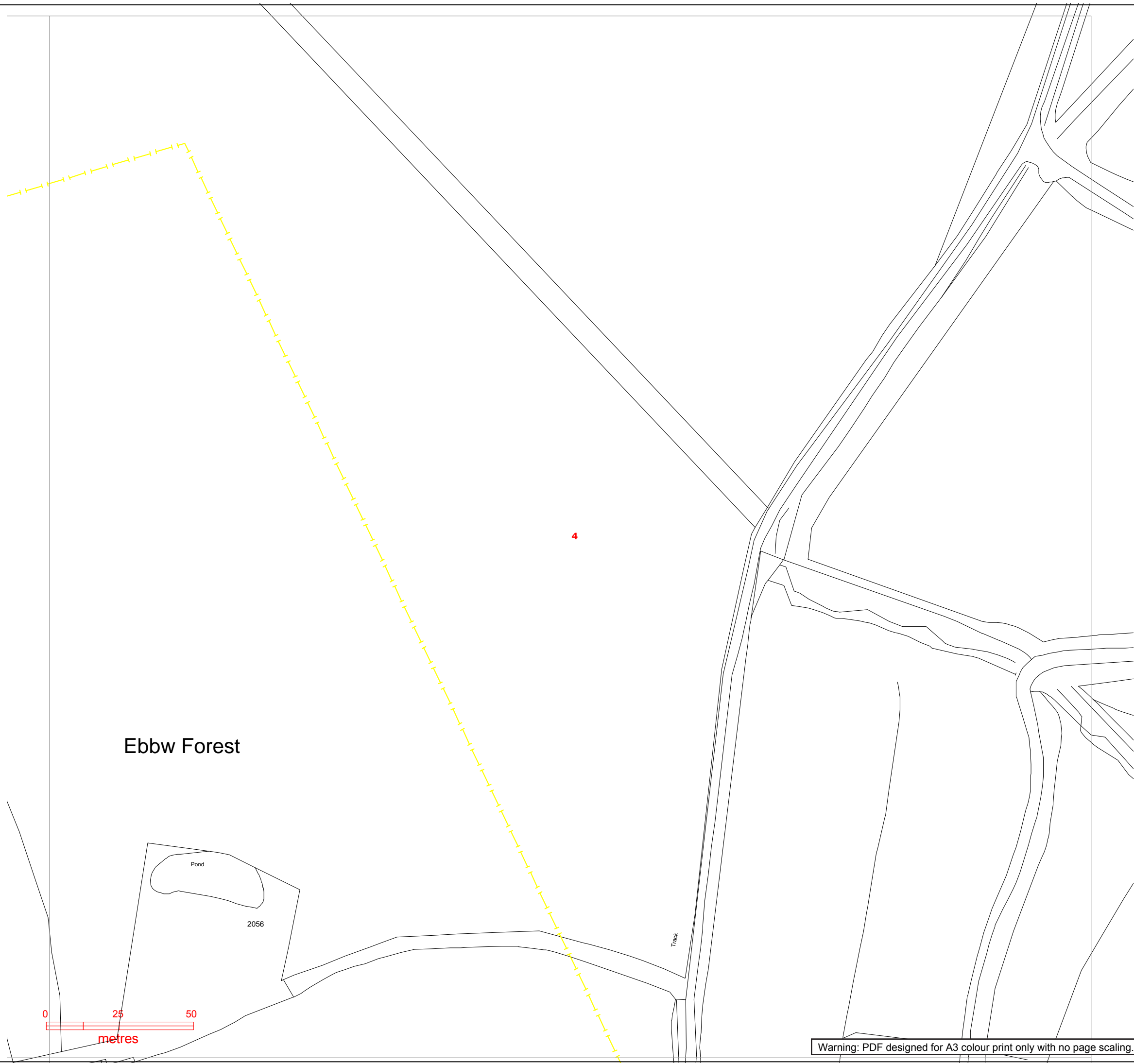
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- When working within 10m of any overhead electric line you should follow the requirements of HSE Guidance Note GS6.
- For further advice on working near our electricity cables or lines, call our Contact Centre on 0800 096 3080.
- Advice should be sought from the Western Power Distribution Contact Centre for any work that is to take place in proximity to 66kV or 132kV underground cables and 66kV 132kV overhead lines – 0800 096 3080



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Contact Us

Mapping Enquiries:

All areas0121 623 9780

General Enquiries:

All areas0800 096 3080

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 6783 105

Date Requested: 26/07/2021
Job Reference: 22790295
Site Location: 323771 194533
Requested by: Mr Duncan Phillips
Your Scheme/Reference: MynyddMaen g04
Exact Scales:
1:1250 Area or Circle dig site
1:500 Line dig site

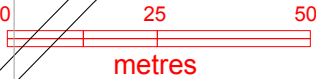
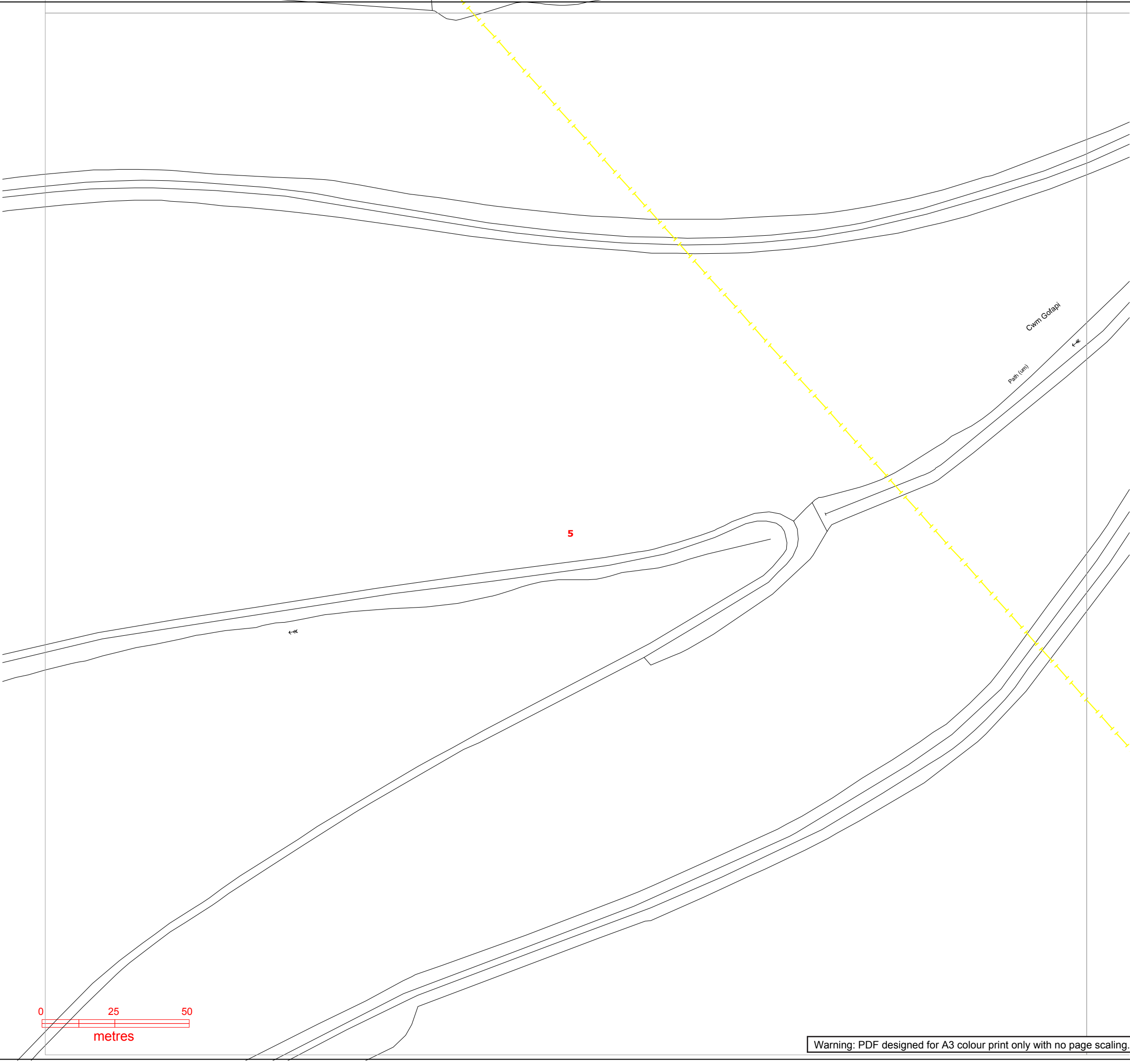
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Overhead Line		Underground Cable

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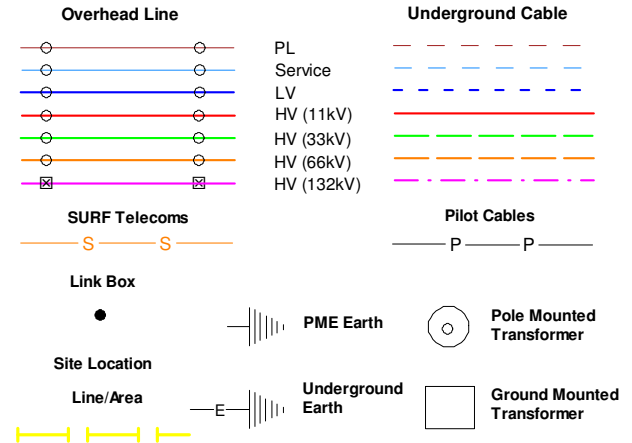
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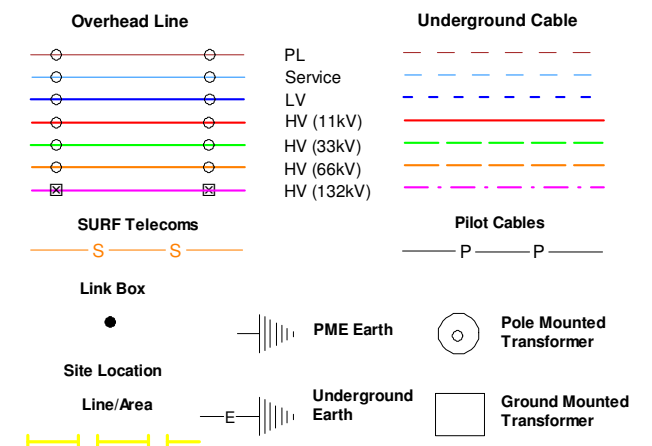
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Craig Fapi

Track

7730

6

A horizontal number line is shown, starting at 0 on the left and ending at 50 on the right. The unit is 'metres'. A point is marked at 25. The line is divided into three equal segments by tick marks at 0, 25, and 50.

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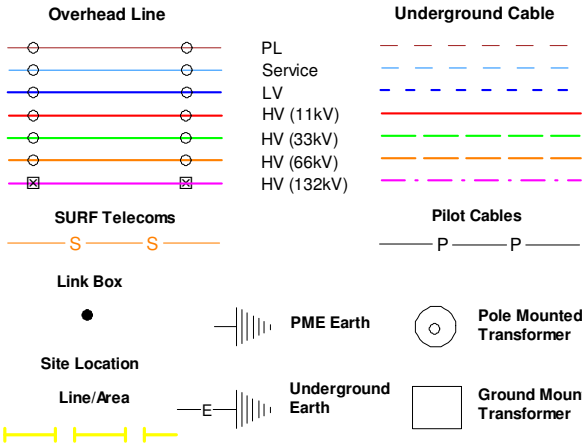
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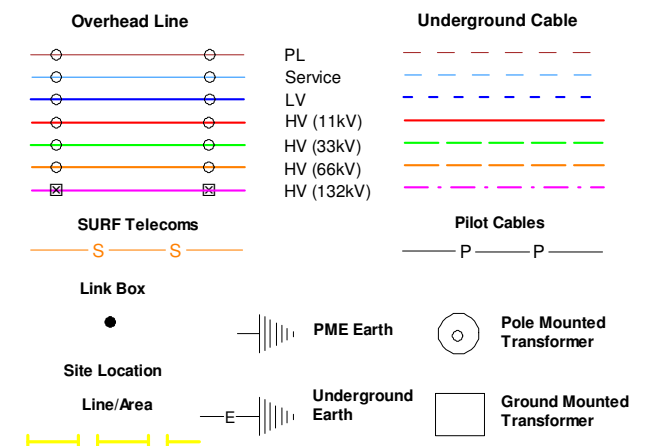
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Avoidance of Danger from Electricity Overhead Lines and Underground Cables

Avoidance of Danger from Electricity Overhead Lines and Underground Cables

Introduction

In the UK on average, 20 people are killed and 400 people are injured as a result of coming into contact (or close proximity) with electricity overhead lines and underground cables.

Although electric shock is the first thing that people associate with coming into contact with our network, those who have witnessed the effects of damage to our system are shocked by the amounts of heat, light and noise that are the result of an electrical flashover.

In the Midlands, South West and South Wales, Western Power Distribution (WPD) have had to attend to incidents where people have accidentally made contact with one of our live electricity overhead lines or damaged an underground cable and become seriously injured.

A significant number of these accidents occurred whilst people were working in the vicinity of overhead and underground electrical apparatus and this booklet has been produced to provide general guidance on how you and your employees can avoid becoming one of these statistics.

Our Operational Area



PLANNING YOUR WORK.

It makes sense to consider your safety while in the vicinity of our equipment as early in your planning process as possible.

One of the first things you should do whenever you are planning your work is to check whether there is any of our equipment in the immediate vicinity. You should do this whether your work is taking place on public (e.g. highways and footpaths) or on private land.

For instance, take a good look around your site to see if there are any visible overhead lines. You should also bear in mind that we have a very extensive network of underground cables, and we are always happy to supply a plan from our Map Response Team who can be contacted via the following;

Tel: 0121 623 9780

Fax: 0121 623 9223

WPDMapResponse@westernpower.co.uk

An online mapping service is available at
www.westernpower.co.uk/locationplans

It is always safer to assume that there are underground cables present in the ground until you have proven otherwise.

WORKING IN THE VICINITY OF UNDERGROUND CABLES

Having obtained copies of our network maps, it is important to recognise that in most cases there will be no surface indication of the presence of our underground cables. We therefore advise that you take the following actions:

- Make sure that you have up-to-date copies of our cable record plans ON SITE - not back in the office.
- Don't assume that these plans are to scale if they have been faxed or copied.
- Make sure that a competent person using a Cable Avoidance Tool (CAT) locates all of the cables shown on these plans.
- Mark the locations of cables on the ground surface with waterproof road paint or other permanent marker.
- Always assume that our cables are live unless we have informed you, in writing, otherwise.



- By hand, dig trial holes to locate the exact position of all cables. Always use a spade or shovel – never use a pick, fork or power tool – push the spade or shovel into the ground applying foot pressure.

- Look out for ducts, marker tape or tiles but do not rely on these. Even if a cable route was originally laid in a duct or with a marker tape, these may have been removed during other excavations at a later date along all or part of the cable route.
- Brief all people working in the vicinity of the presence and location of all underground cables.

UNDER NO CIRCUMSTANCES SHOULD YOU ATTEMPT TO WORK ON, OR INTERFERE WITH, ANY OF OUR UNDERGROUND CABLES.

The only people qualified to work on this equipment are our operatives; who have been specifically trained and are authorised in writing to do so.

Please also be aware that:

- Cable record plans are not guaranteed to be completely accurate. Kerb lines, roads and buildings may have been moved or altered since the cables were laid.
- Cables should ordinarily be at least 450mm deep but don't assume this to be the case where you are working – ground levels could have changed.
- Not all service cables are shown on record plans, so look for cables running down poles and bear in mind that all buildings, street lights and street furniture are likely to have cables running to them. Cables feeding street furniture may be relatively shallow near to the furniture.
- Cables do not run in straight lines. They often “snake” through the ground avoiding surface and buried obstacles that may not be visible to you.
- Cables are flexible and can change direction and depth abruptly – for this reason never use mechanical excavators within 0.5m of any underground electricity cable even if you have located it with trial holes.

- **No attempt should be made to break out concrete surrounding a cable. Please contact us immediately on our general enquiries number and we will discuss the options for safe working which may include making the cable dead or you moving your work site if possible. If we need to make the cable dead we may need to provide our customers with two weeks notice of the power interruption.**
- Our cables and joints are not designed to act as steps or to be left unsupported. If you remove support from any cable, you will need to support it using temporary hangers at not more than 0.5m intervals.
- When backfilling, please consolidate the ground under the cables, cover the cable with soil free of stones or with stone dust and replace any cable marker tiles, ducts and tape.

IF YOU DAMAGE AN UNDERGROUND CABLE

you must immediately clear the area of personnel, because the cable could still be live, or become live again.

If a machine is still in contact with the cable, instruct the driver to JUMP clear. Do not touch any part of the machine.

Please contact us on our emergency number immediately and tell us what has happened. Please be ready to provide us with a contact telephone number and an accurate location or set of directions – this will help us in getting our staff to site quickly to minimise any danger and lessen the disruption to your work.

Please report any damage to a cable, however superficial it might seem. The cable may not fail at the time of damage, but it could fail later, causing danger to our staff and other contractors, disruption to our customers' supplies, and also – if we trace the damage back to you – a very much larger repair bill.

WORKING IN THE VICINITY OF OVERHEAD LINES

UNDER NO CIRCUMSTANCES SHOULD YOU ATTEMPT TO WORK ON, OR INTERFERE WITH ANY OF OUR OVERHEAD LINE EQUIPMENT OR SERVICE WIRES.

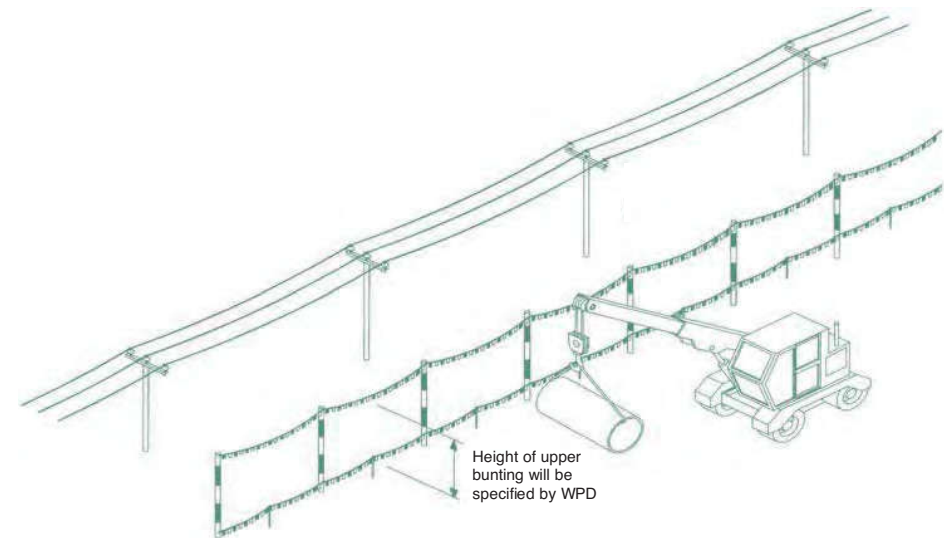
The only people qualified to work on this equipment are our operatives; who have been specifically trained and are authorised in writing to do so.

Overhead lines have the advantage that, unlike underground cables, they can easily be seen.

- Always assume that our overhead lines are live unless we have informed you otherwise in writing.
- We will be able to advise you about the type and voltage of the overhead lines in question and provide you with information about the clearances that you must adhere to during your work. Please ring our regional general enquiries number for further advice.
- If you are in any doubt about whether the overhead lines in question are power or telephone (this is a very common mistake) – please ask us.
- In some circumstances, we may be able to temporarily shroud low voltage overhead lines and services running to buildings if you need to work in the vicinity e.g. for scaffolding erection, fascia repairs and painting work on domestic properties. We don't normally charge for the shrouding of overhead lines, but please give us as much notice as possible.
- If you think that you will be working close to our overhead lines and they need shrouding – please don't start work until we have agreed what needs to be done and all safety precautions are in place.
- Please note that it is not technically possible to shroud high voltage lines, so if you cannot avoid working near to our high voltage lines, contact us and we will be happy to meet with you to discuss safe alternatives.

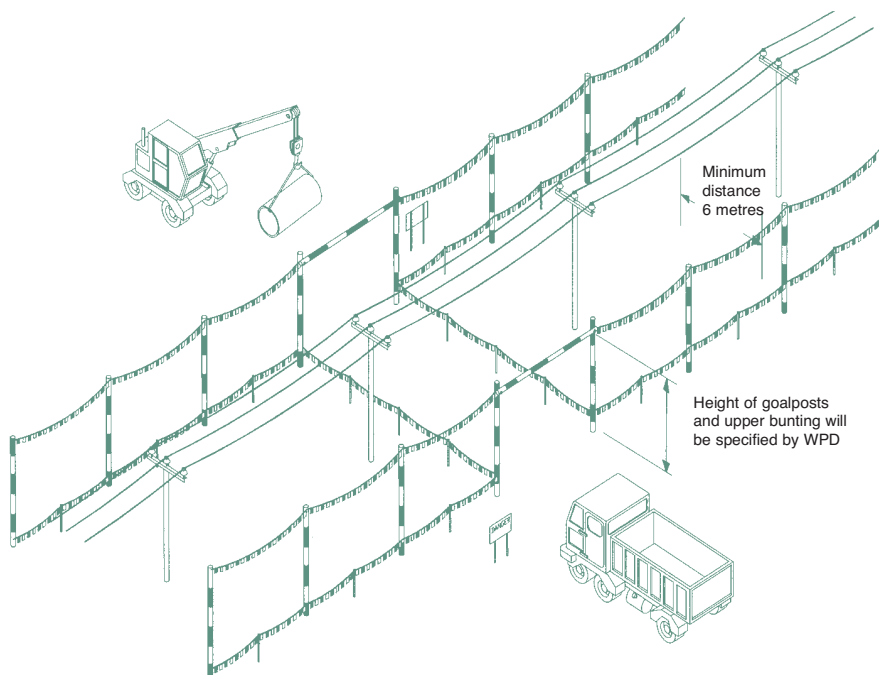
- If it is decided that work can go ahead in the vicinity of our overhead lines but there is a risk of you infringing the safety clearances from the overhead lines, you have a responsibility to erect safety barriers to segregate your works from the area around the overhead lines. The detailed requirements for these barriers are provided in the HSE document GS6 'Avoidance of Danger from Overhead Lines'. As a summary they should consist of:

- Red and white coloured posts erected at 6m intervals, with coloured bunting stretched between their tops, supplemented by low level bunting erected at 1m above ground level, supported at 3m intervals on red and white coloured posts. This is shown below.



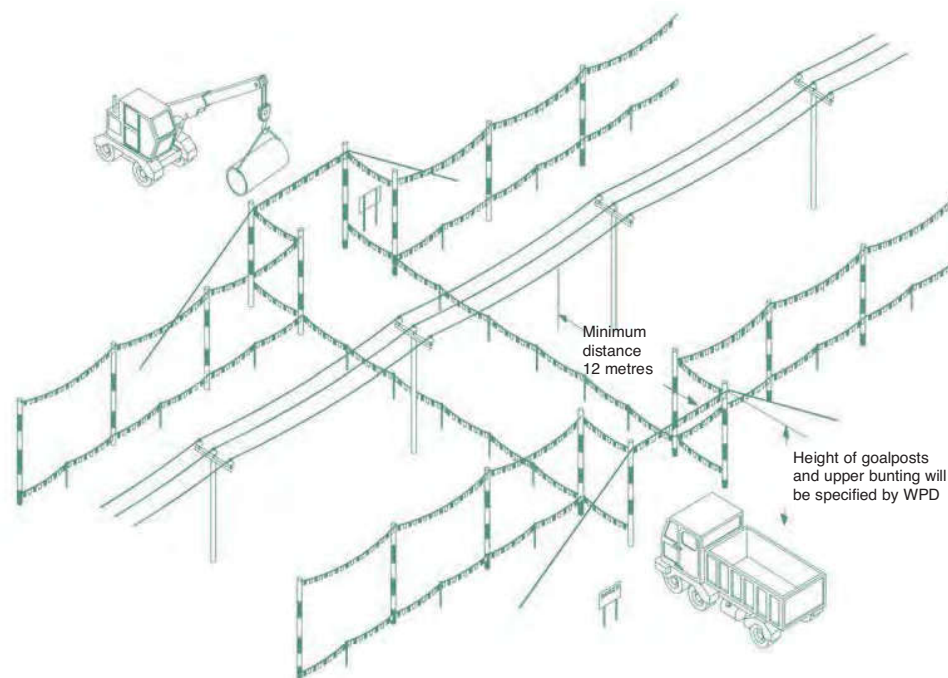
- We are able to advise you on the height of the barriers and any additional clearances necessary if you are using large plant on your site.
- Any bunting, ropes and lanyards used should be made from an insulating material.
- These barriers should be erected parallel to the overhead line at a minimum distance of 6m horizontally from the outermost conductor of the overhead line.

- The supports may be supported by rubble or concrete filled barrels or buried directly in the ground.
- Danger Notices should be fixed to all of your high level supports.
- The ground enclosed within these barriers is best regarded as “dead ground” in which all foot and vehicular traffic is forbidden, in all circumstances, for the duration of your work.
- Where it is necessary for foot and vehicular traffic to pass under the line, you will need to form a marked access way between the barriers as shown below.



- This access way should comprise of bunting erected 1m above ground, supplemented by high level “goal-posts” erected at either end.
- The goal post cross bars should be rigid, made of insulating material and positioned in a location and at a height specified by us.

- The access route should be as narrow as possible and should not normally exceed 10m in width.
- If it is necessary to make the access route wider than this, you may find it impractical to use rigid cross bars, so you may use a tensioned rope and bunting instead. If you use rope and bunting as a cross bar, you should move the entrance to the access route out to a minimum distance of 12m from the outermost conductor of the line. This is to allow for any stretching of the rope if pulled by your plant.



- If you decide to use steel wire rope to support the barrier, this must be effectively connected to earth at both ends.
- You should also install Danger Notices at all probable directions of approach and clearly display the cross bar height.
- If you are working at night, or in conditions of poor visibility, you should ensure the area is well lit and that the overhead lines are clearly visible.
- Whatever measures you take, you should ensure that everyone working in the vicinity of overhead lines is briefed about the risks and what safety measures are in place. Do not permit anyone to carry long objects, especially scaffold poles, ladders and irrigation pipes in the vicinity of overhead lines.
- You should ensure that all shrouding, barriers and signs are regularly inspected and maintained so that they remain effective.
- Overhead lines are not normally insulated and electricity at high voltages may jump, so a dangerous situation can arise just from a close approach.
- Cranes and excavators working near overhead lines are at increased risk because of the possibility of the jib/arm slewing or being raised into the overhead line, or the load swinging into the overhead line. You may therefore also need to fit plant and vehicles with restricting chains etc. to physically restrain their operation – we can advise on this if you wish.
- If you are planning to carry out tree cutting or arboriculture work in the vicinity of our overhead lines, you need to be aware that this is a complex, high risk activity and we recommend that you employ a competent tree surgeon, who complies with all of the requirements of Forestry industry Safety Accord (FISA) publication FISA 804 - Electricity at work: Forestry.

If contact is made with an overhead line

you must immediately clear the area and suspend all work within 50m of the damage because the line could still be live, or become live again.

The operator of a machine that is in contact with an overhead line should:

- **if the machine is still operable and the operator is still in the cab:**

provided that you do not risk breaking the overhead line or dragging it to the ground, immediately lower the raised parts of the machine USING ONLY THE CONTROLS IN THE CAB and/or drive the vehicle clear of the overhead line.

contact us immediately on our emergency number so that we can check the overhead lines.

instruct other people in the vicinity not to approach the vehicle.

- **if the machine is not operable, cannot be driven clear of the overhead line or there is a risk that doing so will break the line or drag it to the ground:**

stay in the cab.

contact your site manager or us immediately on our emergency number by radio or mobile phone or as soon as possible by any other method.

instruct everyone outside the vehicle not to approach it.

do not exit the cab until given confirmation BY WPD PERSONNEL that it is safe to do so.

- **if the machine is inoperable or cannot be driven free and there is risk of fire or other immediate hazard:**

JUMP clear of the vehicle, avoiding simultaneous contact with any part of the machine and the ground.

try to land with your feet as close together as possible.

where possible, continue to move away from the vehicle using “bunny hops” with your feet together until at least 15m from the vehicle.

instruct other people in the vicinity not to approach the vehicle.

contact us immediately on our emergency number.

do not return to the vehicle until given confirmation by WPD PERSONNEL that it is safe to do so.

Whatever the circumstances please contact us on our emergency number immediately and tell us what has happened. Please be ready to provide us with a contact telephone number and an accurate location or set of directions – this will help us in getting our staff to site quickly to minimise any danger and lessen any disruption to your work.

Please report any damage or contact no matter how minor they may seem to you at the time. The damage may not cause a serious problem at the time of damage, but it could fail later, causing danger to our staff and members of the public, disruption to our customers' supplies, and – if we trace the damage back to you – a large repair bill.

MORE INFORMATION

For your information, we are legally obliged to report all contact with our system to the Health & Safety Executive (HSE), and, if you are an employer, you may be obliged to report incidents involving your staff or contractors to the HSE. Even if no one is hurt, you could be prosecuted for failing to report such an incident.

More detailed general information on this subject is available in the following publications from the HSE:

HSG(47) – Avoiding Danger from Underground Services

GS6 – Avoidance of Danger from Overhead Lines

Along with Forestry Industry Safety Accord (FISA) publication FISA 804 – Electricity at Work: Forestry

If you require more site-specific information relating to our equipment at your location please contact us on our regional general enquiries numbers.

Our general enquiries numbers are;

Midlands
General Enquiries

0845 724 0240

South Wales
General Enquiries

0845 601 3341

South West
General Enquiries

0845 601 2989

FINALLY...

Please, always remember that electricity cables and overhead lines can be very dangerous – the general rule is **STAY AWAY** and stay safe.

NOTES



This booklet is issued by the Safety Team

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Registered Office: Avonbank, Feeder Road, Bristol BS2 0TB

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2014, 4th issue

Our emergency number is:
0800 6783 105

Calling from a mobile?

East Midlands
0330 123 5009

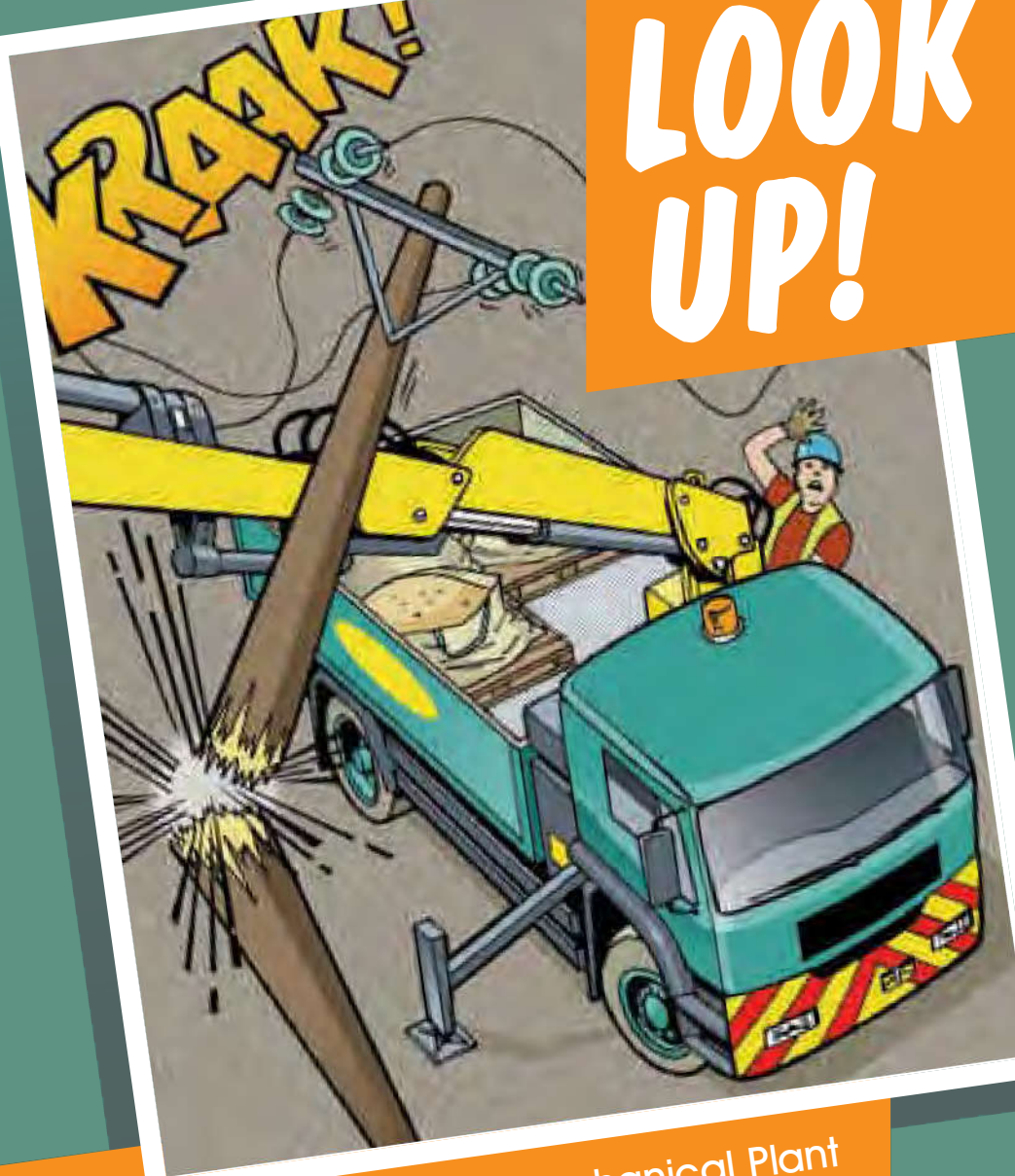
West Midlands
0330 123 5008

South Wales
0330 123 5002

South West
0330 123 5001

LOOK OUT-

**LOOK
UP!**



**A Guide to the Safe Use of Mechanical Plant
in the Vicinity of Electricity Overhead Lines**

The Safe Use of Mechanical Plant in the Vicinity of Electricity Overhead Lines

Introduction

Every year in the UK on average, two people are killed and many more are injured when mechanical plant and machinery comes into contact or close proximity to overhead electricity lines.

This booklet has been produced for anyone who uses mobile plant, (such as Hiabs, MEWPs, Tipper Lorries and Trailers, Grab Lorries, Concrete Conveyors and Excavators) for short duration work and provides general guidance on how to avoid becoming part of these statistics.



1 BEFORE STARTING WORK

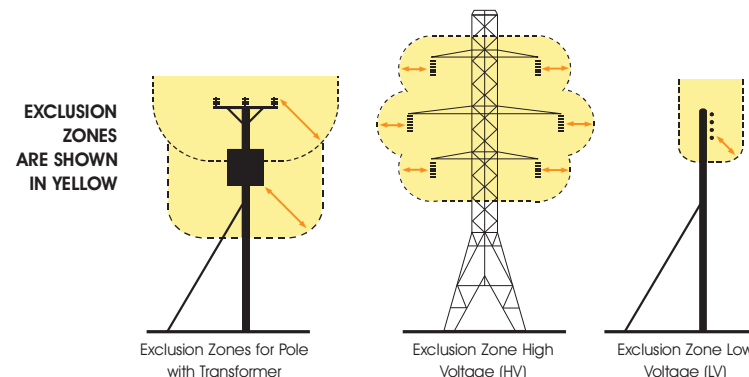
- Overhead lines have the advantage that they can easily be seen, so before you set up your vehicle or plant always:

STOP AND LOOK UP!

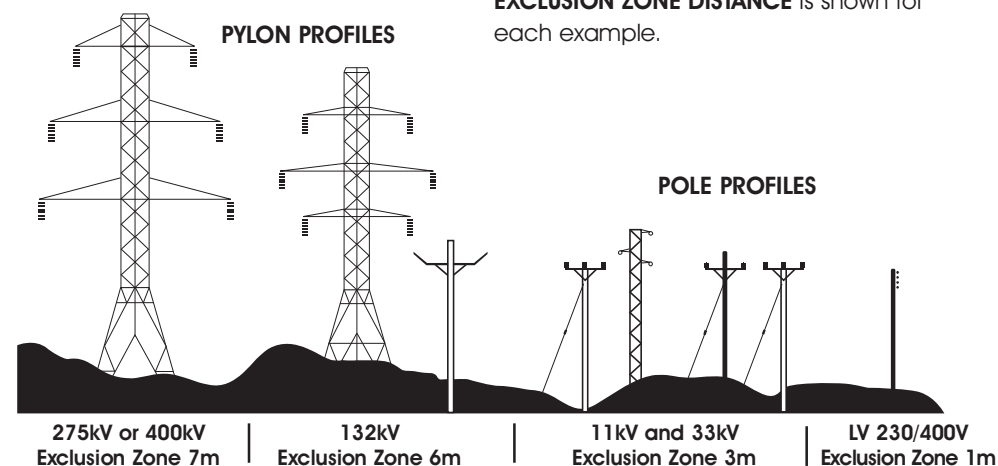
- If you are working at night, or in conditions of poor visibility, you should use spotlights or a torch to carefully check that there are no overhead lines within your vehicle's reach.
- Always assume that our lines are live unless we have informed you otherwise in writing.
- If you are in any doubt about whether the lines in question are power or telephone (this is a very common mistake) – always assume that they are power lines and are live.
- It is not normally practical for electricity companies to shroud high voltage conductors and even when low voltage conductors are shrouded, the shrouding is not designed to protect against contact by mechanical plant – again, always assume the lines are live.

2 EXCLUSION ZONES

- Overhead power lines are not normally insulated and so any contact can result in serious or fatal injuries.
- Electricity at high voltages can also jump gaps with no warning whatsoever, so it is also dangerous to let your plant approach too close to a line.
- The distance that electricity can jump depends on the voltage of the line. The higher the voltage, the further you must stay away from the line and any other equipment that may be fitted to the pole or pylon. This distance is called the **EXCLUSION ZONE**. Examples of this are shown highlighted in the diagram below.



- You must not allow any part of your plant to enter the **EXCLUSION ZONE**.
- The diagram below shows typical types of overhead lines and provides a guide to help you assess the line voltage of lines on wooden poles or steel pylons. The minimum **EXCLUSION ZONE DISTANCE** is shown for each example.

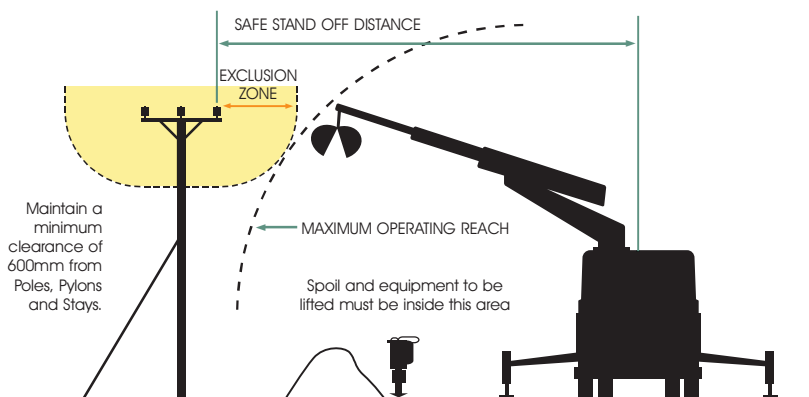


- Please note that these are absolute minimum distances that should under no circumstances be infringed. **If you do – it could prove fatal.**

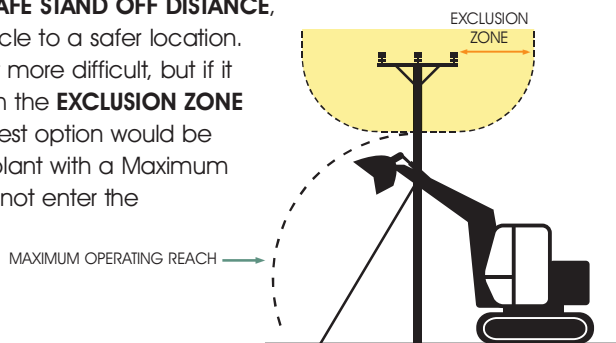
- As well as staying away from the lines or equipment, you should also stay at least 600mm away from any part of poles, pylons and stay wires.
- Please remember that is for guidance only, and if you are in any doubt, please call us for advice before setting up your plant or starting work.

3 STAND OFF DISTANCES

- If there are power lines in the vicinity of your work the best way to make sure you stay out of the **EXCLUSION ZONE** is to position your vehicle at a **SAFE STAND OFF DISTANCE** so that, even when fully extended, no part of it can accidentally reach inside the **EXCLUSION ZONE**.
- This **SAFE STAND OFF DISTANCE** can be calculated by adding the **EXCLUSION ZONE** distance for the appropriate voltage of the line to the Maximum Operating Reach of your vehicle. This is shown in the diagram below.



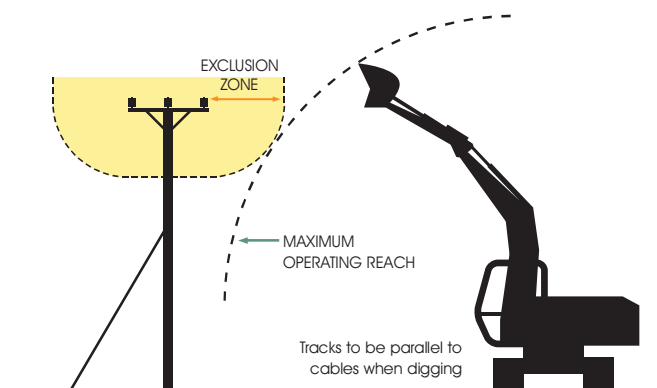
- If you position your vehicle outside of the **SAFE STAND OFF DISTANCE**, there is no risk of accidental contact with the lines and no danger of electricity jumping from the line to your vehicle.
- If you cannot achieve a **SAFE STAND OFF DISTANCE**, consider moving your vehicle to a safer location. It may make your job a bit more difficult, but if it means you stay away from the **EXCLUSION ZONE** - it will be safer. The next best option would be to consider using smaller plant with a Maximum Operating Reach that cannot enter the **EXCLUSION ZONE**.



- You may not be able to achieve either of these options, so, as a last resort, if you cannot avoid operating large items of plant in the vicinity of lines, you **MUST** make sure that the plant is fitted with restraints to ensure that the **EXCLUSION ZONE** cannot be entered. These restraints may be electrical or hydraulic systems fitted to the plant, or mechanical devices such as chains.

Please seek advice from the plant manufacturer for more information on choices available for your particular item of plant.

- If you are using a mechanical excavator to dig parallel to the line, it is good practice to position the excavator with the tracks or wheels parallel to the line, so as you move along the excavation the **SAFE STAND OFF DISTANCE** is easily maintained.



- Care must also be taken to avoid non-mechanical equipment, (e.g. scaffold poles, ladders and long loads such as lengths of steel or timber) from entering the **EXCLUSION ZONE**.
- Always maintain at least 600mm clearance from your plant to any of our poles, stay wires or pylons. Any contact with these by your plant could cause the line to break and fall to the ground.

4 EMERGENCY PROCEDURES

If contact is made with an overhead line, you must immediately clear the area and suspend all work within 50m of the damage because the line could still be live, or become live again.

The operator of a machine that is in contact with an overhead line should take the following steps:

- **If the machine is still operable:**
 - lower any raised parts that are controlled from the driving position and/or drive the vehicle clear of the line, as long as neither of these actions risk breaking the line or dragging it to the ground.

- **If the machine is not operable or cannot be driven clear of the line:**
 - stay in the cab.
 - contact your site manager or us immediately by radio or mobile phone or as soon as possible by any other method.
 - instruct everyone outside the vehicle not to approach it.
 - do not exit the cab until given confirmation BY WPD PERSONNEL that it is safe to do so.

- **If the machine is inoperable or cannot be driven free and there is risk of fire or other immediate hazard:**
 - jump clear of the vehicle, avoiding simultaneous contact with any part of the machine and the ground.
 - try to land with your feet as close together as possible.
 - where possible, continue to move away from the vehicle using "bunny hops" with your feet together until at least 15m from the vehicle.
 - instruct other people in the vicinity not to approach the vehicle.
 - do not return to the vehicle until given confirmation BY WPD PERSONNEL that it is safe to do so.

Whatever the circumstances please contact us on our emergency number immediately and tell us what has happened.

Please be ready to provide us with a contact telephone number and an accurate location or set of directions – this will help us in getting our staff to site quickly to minimise any danger and to reduce any disruption to your work.

Our emergency number is:

105 or 0800 6783 105

Please report any damage or contact no matter how minor they may seem to you at the time. Whilst the damage may not cause a serious problem at the time of contact it could fail later, causing danger to our staff and members of the public, disruption to our customer's supplies, and – if we trace the damage back to you – a larger repair bill!

5 MORE INFORMATION

- Proximity Warning Systems (such as Wire Watcher – see wirewatcher.co.uk for information) may be fitted to your vehicle. Never turn these devices off or disable them in any way.
- Take note of any warnings these proximity warning systems may provide but do not use the presence of such devices as a reason not to follow the advice provided in this leaflet.
- For your information, we are legally obliged to report all contact with our system to the Department of Trade and Industry (DTI), and, if you are an employer, you may be obliged to report incidents involving your staff or contractors to the Health & Safety Executive (HSE). Even if no one is hurt, you could still find yourself being prosecuted for causing a dangerous occurrence.

6 FURTHER READING

For advice related to signing and guarding at longer term work sites please also refer to WPD booklet "Avoidance of Danger from Electricity Overhead Lines and Underground Cables"

More detailed information is also published in the following documents available from the HSE.

GS6 – Avoidance of Danger from Overhead Lines.

HS(G) 47 – Avoiding Danger from Underground Services.

Along with Forestry Industry Safety Accord (FISA) publication **FISA 804 - Electricity at Work: Forestry.**

If you require more site-specific information relating to our equipment at your location please contact us on the relevant **GENERAL ENQUIRIES NUMBER:**

0800 096 3080

FINALLY.... Please, always remember that electricity overhead lines can be very dangerous – the general rule is **STAY AWAY and STAY SAFE!**

For the Safe Use of Mechanical Plant in the Vicinity of Electricity Overhead Lines ALWAYS FOLLOW THESE SIMPLE RULES – THEY COULD SAVE YOUR LIFE!

- Treat all overhead lines as live and dangerous
- Any contact may be fatal or cause very serious injuries
- Electricity can jump gaps
- Before you set up or use plant near to lines – STOP and LOOK UP
- Take special care and use lights in the dark or poor light conditions
- If there are lines in the vicinity of your work – stay well away
- Set up your plant with care to reduce the chance of contact
- If you are unsure or need advice
 - please ask us before starting work

Our emergency number is: **105 or 0800 6783 105**

You can also call 105 if you spot damage to electricity power lines, poles and substations which could put you or someone else in danger.

If there's a serious immediate risk, you should also call the emergency services.

This booklet is issued by the Safety Team: wpdsafetyhelpline@westernpower.co.uk



Western Power Distribution (East Midlands) plc. Registered in England and Wales No. 2366923
Western Power Distribution (West Midlands) plc. Registered in England and Wales No. 3600574
Western Power Distribution (South Wales) plc. Registered in England and Wales No. 2366985
Western Power Distribution (South West) plc. Registered in England and Wales No. 2366894
Registered Office: Avonbank, Feeder Road, Bristol BS2 0TB

THIRD PARTY SEARCHES

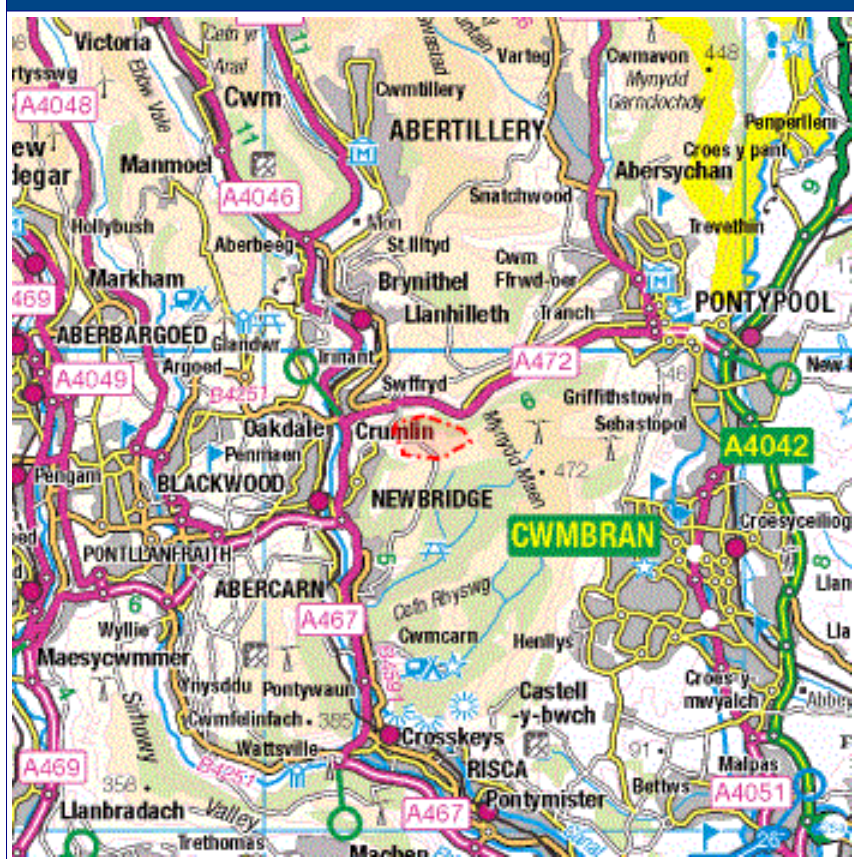
Enquirer

Name	Mr Duncan Phillips	Phone	01516325142
Company	Cornerstone Projects	Mobile	Not Supplied
Address	91 Market Street Hoyle Merseyside CH47 5AA		
Email	searches@cornerstoneprojects.co.uk		

Enquiry Details

Scheme/Reference	MynyddMaen g01		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	31/07/2021	Work type	Commercial/industrial
End date	31/07/2021	Site size	970451 metres square
Searched location	XY= 323310, 196498	Work type buffer*	75 metres
Confirmed location	323471 198222		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works			

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map


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For National Grid Gas Distribution Ltd below 2 bar asset information please go to www.beforeyoudig.nationalgrid.com

LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.

List of affected LSBUD members

Asset Owner	Phone/Email	Emergency Only	Status
Wales and West Utilities	02920278912	0800111999	Await response
Western Power Distribution	08000963080	08006783105	Await response

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List of not affected LSBUD members

AWE Pipeline	Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)
Box Broadband	BP Exploration Operating Company Limited	BPA
Carrington Gas Pipeline	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	Diamond Transmission Corporation	DIO (MOD Abandoned Pipelines)
DIO (MOD Live Pipelines)	E.ON UK CHP Limited	EirGrid
Electricity North West Limited	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langage Limited	ESP Utilities Group	ESSAR
Esso Petroleum Company Limited	Exolum Pipeline System	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Gtt	Harbour Energy
Heathrow Airport LTD	Humbly Grove Energy	IGas Energy
INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited
INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd
Last Mile	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
Murphy Utility Assets	National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission	Neos Networks
Northumbrian Water Group	NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd
NYnet Ltd	Oikos Storage Limited	Ørsted
Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos	Phillips 66
Portsmouth Water	Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA
RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals
Scottish and Southern Electricity Networks	Scottish Power Generation	Seabank Power Ltd
SES Water	SGN	Shell
Shell NOP	SSE Generation Ltd	SSE Transmission
SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)	Total Colnbrook Pipelines

Total Finaline Pipelines	Transmission Capital	UK Power Networks
Uniper UK Ltd	University of Cambridge Granta Backbone Network	Vattenfall
Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd	VPI Power Limited
West of Duddon Sands Transmission Ltd	Westminster City Council	Zayo Group UK Ltd c/o JSM Group Ltd

Enquirer

Name	Mr Duncan Phillips	Phone	01516325142
Company	Cornerstone Projects	Mobile	Not Supplied
Address	91 Market Street Hoylelake Merseyside CH47 5AA		
Email	searches@cornerstoneprojects.co.uk		

Enquiry Details

Scheme/Reference	MynyddMaen g02		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	31/07/2021	Work type	Commercial/industrial
End date	31/07/2021	Site size	882272 metres square
Searched location	XY= -3.108211, 51.67753 Long/Lat	Work type buffer*	75 metres
Confirmed location	323219 196782		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works	- CONTINUED FROM JOB: 22790239 -		

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Site Map


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Asset Owner	Phone/Email	Emergency Only	Status
Wales and West Utilities	02920278912	0800111999	Await response
Western Power Distribution	08000963080	08006783105	Await response

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Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	Diamond Transmission Corporation	DIO (MOD Abandoned Pipelines)
DIO (MOD Live Pipelines)	E.ON UK CHP Limited	EirGrid
Electricity North West Limited	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langage Limited	ESP Utilities Group	ESSAR
Esso Petroleum Company Limited	Exolum Pipeline System	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Gtt	Harbour Energy
Heathrow Airport LTD	Humbly Grove Energy	IGas Energy
INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited
INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd
Last Mile	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
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Northumbrian Water Group	NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd
NYnet Ltd	Oikos Storage Limited	Ørsted
Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos	Phillips 66
Portsmouth Water	Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA
RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals
Scottish and Southern Electricity Networks	Scottish Power Generation	Seabank Power Ltd
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Shell NOP	SSE Generation Ltd	SSE Transmission
SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)	Total Colnbrook Pipelines

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Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd	VPI Power Limited
West of Duddon Sands Transmission Ltd	Westminster City Council	Zayo Group UK Ltd c/o JSM Group Ltd

Enquirer

Name	Mr Duncan Phillips	Phone	01516325142
Company	Cornerstone Projects	Mobile	Not Supplied
Address	91 Market Street Hoylake Merseyside CH47 5AA		
Email	searches@cornerstoneprojects.co.uk		

Enquiry Details

Scheme/Reference	MynyddMaen g03		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	31/07/2021	Work type	Commercial/industrial
End date	31/07/2021	Site size	924428 metres square
Searched location	XY= -3.111535, 51.664548 Long/Lat	Work type buffer*	75 metres
Confirmed location	323751 195235		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works	- CONTINUED FROM JOB: 22790264 -- CONTINUED FROM JOB: 22790239 -		

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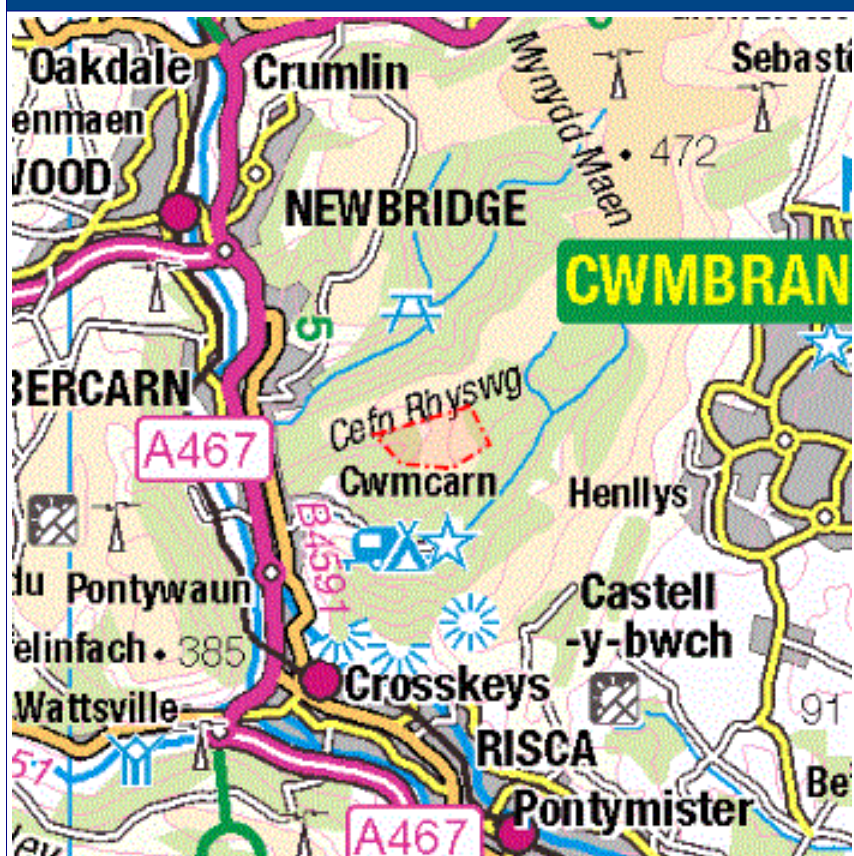
Enquirer

Name	Mr Duncan Phillips	Phone	01516325142
Company	Cornerstone Projects	Mobile	Not Supplied
Address	91 Market Street Hoylake Merseyside CH47 5AA		
Email	searches@cornerstoneprojects.co.uk		

Enquiry Details

Scheme/Reference	MynyddMaen g04		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	31/07/2021	Work type	Commercial/industrial
End date	31/07/2021	Site size	458683 metres square
Searched location	XY= -3.103507, 51.650715 Long/Lat	Work type buffer*	75 metres
Confirmed location	323779 194508		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works	- CONTINUED FROM JOB: 22790287 -- CONTINUED FROM JOB: 22790264 -- CONTINUED FROM JOB: 22790239 -		

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Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lineasearchbeforeudig.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

Notes. Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.

Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LineasearchbeforeUdig accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Asset Owners & Responses. Please note the enquiry results include the following:

1. "LSBUD Members" who are asset owners who have registered their assets on the LSBUD service.
2. "Non LSBUD Members" are asset owners who have not registered their assets on the LSBUD service but LSBUD is aware of their existence. Please note that there could be other asset owners within your search area.

Below are three lists of asset owners:

1. **LSBUD Members who have assets registered within your search area. ("Affected")**
 - a. These LSBUD Members will either:
 - i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.
 - ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.
2. **LSBUD Members who do not have assets registered within your search area. ("Not Affected")**
3. **Non LSBUD Members who may have assets within your search area.** Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

National Grid. Please note that the LSBUD service only contains information on National Grid's Gas above 7 bar asset, all National Grid Electricity Transmission assets and National Grid's Gas Distribution Limited above 2 bar asset.

For National Grid Gas Distribution Ltd below 2 bar asset information please go to www.beforeyoudig.nationalgrid.com

LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.

List of affected LSBUD members

Asset Owner	Phone/Email	Emergency Only	Status
Wales and West Utilities	02920278912	0800111999	Await response
Western Power Distribution	08000963080	08006783105	Await response

LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD Members make regular changes to their assets and this list may vary for new enquiries in the same area.

List of not affected LSBUD members

AWE Pipeline	Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)
Box Broadband	BP Exploration Operating Company Limited	BPA
Carrington Gas Pipeline	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	Diamond Transmission Corporation	DIO (MOD Abandoned Pipelines)
DIO (MOD Live Pipelines)	E.ON UK CHP Limited	EirGrid
Electricity North West Limited	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langage Limited	ESP Utilities Group	ESSAR
Esso Petroleum Company Limited	Exolum Pipeline System	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Gtt	Harbour Energy
Heathrow Airport LTD	Humbly Grove Energy	IGas Energy
INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited
INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd
Last Mile	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
Murphy Utility Assets	National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission	Neos Networks
Northumbrian Water Group	NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd
NYnet Ltd	Oikos Storage Limited	Ørsted
Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos	Phillips 66
Portsmouth Water	Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA
RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals
Scottish and Southern Electricity Networks	Scottish Power Generation	Seabank Power Ltd
SES Water	SGN	Shell
Shell NOP	SSE Generation Ltd	SSE Transmission
SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)	Total Colnbrook Pipelines

Total Finaline Pipelines	Transmission Capital	UK Power Networks
Uniper UK Ltd	University of Cambridge Granta Backbone Network	Vattenfall
Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd	VPI Power Limited
West of Duddon Sands Transmission Ltd	Westminster City Council	Zayo Group UK Ltd c/o JSM Group Ltd

CABLE

Searches - Cornerstone Projects Ltd

From: Harshita K S <Harshitha.KS@atkinsglobal.com>
Sent: 27 July 2021 11:22
To: Searches - Cornerstone Projects Ltd
Subject: RE: Plant Enquiries - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, ,
Caerphilly - NGR E323310 N196498

Please accept this email as confirmation that Vodafone: Fixed **does not** have apparatus within the vicinity of your proposed works detailed below.

Many thanks.

Plant Enquiries Team
T: +44 (0)1454 662881
E: osm.enquiries@atkinsglobal.com

ATKINS working on behalf of Vodafone: Fixed

This response is made only in respect to electronic communications apparatus forming part of the Vodafone Limited electronic communications network formerly being part of the electronic communications networks of Cable & Wireless UK (now re-named Vodafone Enterprise UK), Energis Communications Limited, Thus Group Holdings Limited and Your Communications Limited.

PLEASE NOTE:

The information given is indicative only. No warranty is made as to its accuracy. This information must not be solely relied upon in the event of excavation or other works carried out in the vicinity of Vodafone plant. No liability of any kind whatsoever is accepted by Vodafone, its servants, or agents, for any error or omission in respect of information contained on this information. The actual position of underground services must be verified and established on site before any mechanical plant is used. Authorities and contractors will be held liable for the full cost of repairs to Vodafone's apparatus and all claims made against them by Third parties as a result of any interference or damage.

IMPORTANT - PLEASE READ:

Diversionary works may be necessary if the existing line of the highway/railway or its levels are altered, where apparatus is affected. Where apparatus is affected and requires diversion, you must submit draft details of the proposed scheme with a request for a 'C3 Budget Estimate' to c3requests@vodafone.com. These estimates should be provided by Vodafone normally within 20 working days from receipt of your request. Please include proof of this C2 response when requesting a C3 (using the 'forward' option).



Please consider the environment before printing this e-mail

From: Searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Sent: 26 July 2021 16:58
To: National Plant Enquiries <OSM.enquiries@atkinsglobal.com>
Subject: Plant Enquiries - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

Dear Sir/Madam,







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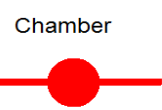


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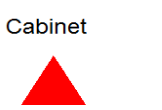
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Important information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where certain voltage power cables have been placed inside green - unless they are marked during the 'Marked' installation stage, which can be downloaded from the website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual location of any underground services must be verified by a qualified person. Apparatus etc. will be installed on or below any mechanical part of a duct. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is provided by Virgin Media Limited (c) Crown copyright and database rights 2021 Ordnance Survey 100018509

Duct, Trench



Chamber



Cabinet

enquiries@cornerstoneprojects.co.uk
My4

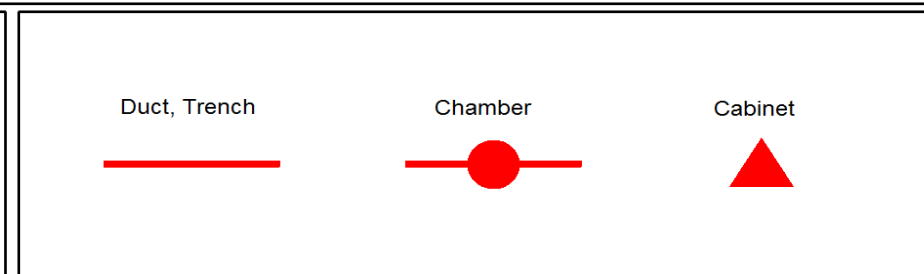






(c) Crown copyright and database rights 2021 Ordnance Survey 100019209 Date: 26/07/21 Scale: 1:1250 Map Centre: 323121,194823 Data updated: 01/06/21 Our Ref: 607040-15 Telecoms Plan A0

Important information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where remote village power cables have been placed inside green - refer to block during further details can be found during the 'Advanced' installation plan. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual underground services must be checked on site before any excavation or other works are carried out. We warrant that the information on this plan is correct as far as we are aware. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is provided by Virgin Media Limited (c) Crown copyright and database rights 2021 Ordnance Survey 100018506



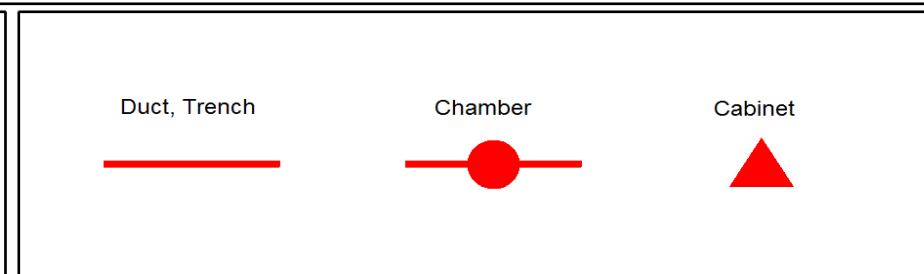
enquiries@cornerstoneprojects.co.uk
Myri





On 26/07/21 Scale: 1:1250 Map Centre: 324270,194785 Date updated: 01/06/21 Our Ref: 607040-16 Telecoms Plan A0

Important information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where private village power cables have been located inside green - either the black during further details can be found during the 'Advanced' installation stage, which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual location of any underground services should be checked by a professional surveyor, or by a professional surveyor, or by a professional surveyor, or by a professional surveyor. (Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any errors or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is provided by Virgin Media Limited (c) Crown copyright and database rights 2021 Ordnance Survey 100018509



enquiries@cornerstoneprojects.co.uk
Myn?



Searches - Cornerstone Projects Ltd

From: NRSWA <nrswa.nrswa@sky.uk>
Sent: 27 July 2021 15:31
To: searches@cornerstoneprojects.co.uk
Subject: Plant Enquiries - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, ,
Caerphilly - NGR E323310 N196498



Thank you for your enquiry.

Please be advised that Sky Telecommunications Services Ltd will not be affected by your proposal.

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us by email at nrswa@sky.uk.

Regards



NRSWA Department
Sky UK - Technology - Operations

 nrswa@sky.uk  +44 2070323234

From: Searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Sent: 26 July 2021 12:28
To: Searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Subject: [EXTERNAL] Plant Enquiries - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly -
NGR E323310 N196498

Dear Sir/Madam,

Re: - Underground Apparatus / Plant

Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

In order that all reasonable precautions may be taken to avoid risk to health and safety through contact with any of your existing apparatus during execution of works at the above site location, please provide plan(s) indicating the general position and nature of your apparatus in the locality. In addition, please highlight any likely special problems

Searches - Cornerstone Projects Ltd

From: Plantenquiries <plantenquiries@catelecomuk.com>
Sent: 12 August 2021 17:52
To: 'Searches - Cornerstone Projects Ltd'
Subject: RE: Plant Enquiries - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, ,
Caerphilly - NGR E323310 N196498

Please Note: Our search criteria has changed. We previously searched for Colt Network which was within 200 metres, this has now changed to 50 metres. The negative response will be for all enquiries that the network is 50 metres or more away from the place of enquiry.

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

We can confirm that Colt Technology Services do not have apparatus near the above location as presented on your submitted plan, if any development or scheme amendments fall outside the 50 metre perimeter new plans must be submitted for review.

Search is based on Overseeing Organisation Agent data supplied; we do not accept responsibility for O.O. Agent inaccurate data.

If we can be of any further assistance please do not hesitate to contact us.

Kind regards,

Plant Enquiry Team



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From: Searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Sent: 26 July 2021 12:28
To: Searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>

Searches - Cornerstone Projects Ltd

From: CGI Plant Enquiries <cgiplantenquiries@instalcom.co.uk>
Sent: 29 July 2021 11:56
To: 'Searches - Cornerstone Projects Ltd'
Subject: RE: C07-21- 0037 Plant Enquiries - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498



Dear Sir or Madam,

With reference to your plant enquiry below, I can confirm that CGI do not have any apparatus within the immediate proximity of your proposed works.

If you require any further information, please do not hesitate to contact me.

Regards

Plant Enquiries Dept.
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613

Fax: +44 (0)208 731 4601

Email: cgi.plantenquiries@instalcom.co.uk

Web: <http://www.instalcom.co.uk>



From: Searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Sent: 26 July 2021 12:28
To: CGI Plant Enquiries <cgiplantenquiries@instalcom.co.uk>
Subject: Plant Enquiries - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

Dear Sir/Madam,

Re: - Underground Apparatus / Plant

Enter Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

In order that all reasonable precautions may be taken to avoid risk to health and safety through contact with any of your existing apparatus during execution of works at the above site location, please provide plan(s) indicating the general position and nature of your apparatus in the locality. In addition, please highlight any likely special problems

Searches - Cornerstone Projects Ltd

From: online.plantenquiries@cityfibre.com
Sent: 26 July 2021 14:18
To: searches@cornerstoneprojects.co.uk
Subject: CityFibre Plant Enquiry, issued on 7/26/21 2:18 PM. Reference 700xhvuu64zy279.
Attachments: emap.pdf

You recently requested information pertaining to the above location and in relation to CityFibre Holdings Ltd plant.

Reference 700xhvuu64zy279

User: CFHplant

Title: MynyddMaen.1

Comment:

Please find attached a plan of the area of your interest that may contain plant which may be affected by your proposed works.

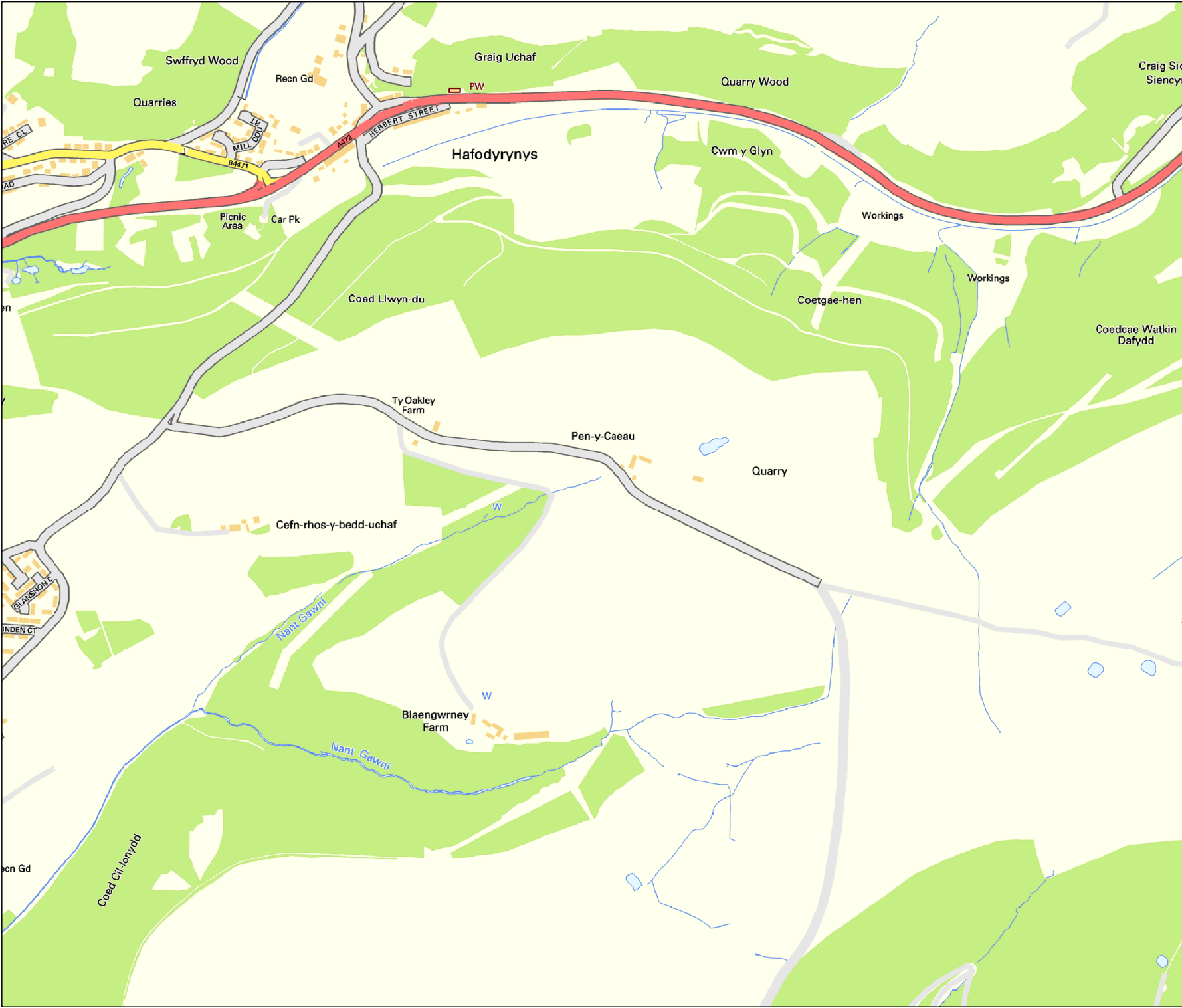
The validity of this response is 6 weeks, after such time a new enquiry would need to be made.

Please see the points of contact below if they are required:

Plant Enquiries
Rutherford House
Birchwood Park
Warrington
WA3 6ZH
asset.team@cityfibre.com

Please quote the Reference ID in the subject line in any correspondence.

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■ EXISTING PLANT

— EXISTING PLANT

Select a bitmap

0m 100m 200m 300m 400m



LEGEND

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Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE
Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH
Email: asset.team@cityfibre.com

Disclaimer:

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Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 26/07/2021

Drawing No.

CFH_EP_000001

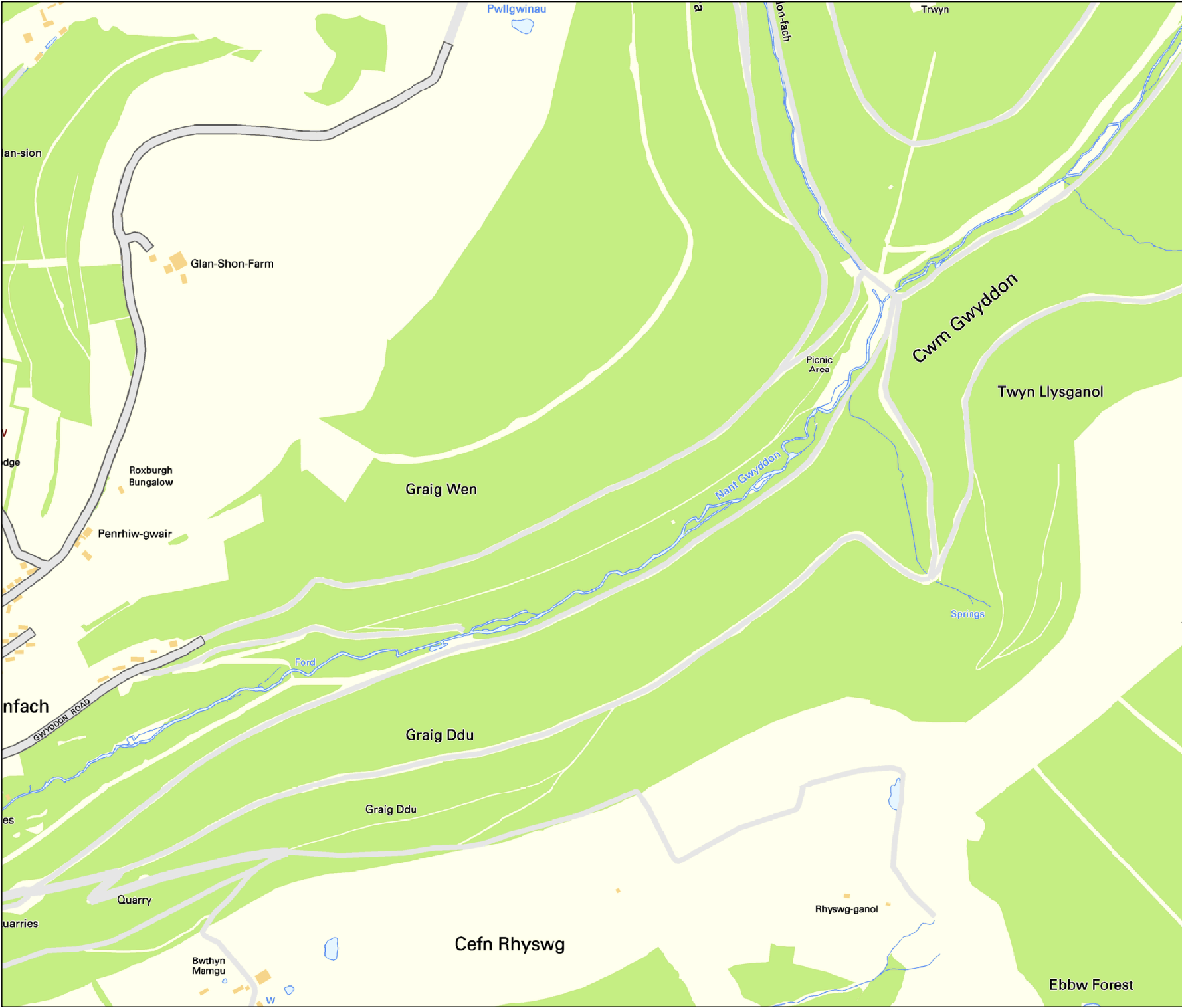
Revision

001

Scale: 1:1250

A4





CityFibre

LEGEND

■

EXISTING PLANT

—

EXISTING PLANT

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Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE
Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH
Email: asset.team@cityfibre.com

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Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 26/07/2021

Drawing No.

CFH_EP_000001

Revision

001

Scale: 1:1250

A4

0m

100m

200m

300m

400m

↑

N



CityFibre

LEGEND

■

EXISTING PLANT

—

EXISTING PLANT

Select a bitmap

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Licence No. OS 0100031673

Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE
Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH
Email: asset.team@cityfibre.com

Disclaimer:

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Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 26/07/2021

Drawing No.

CFH_EP_000001

Revision

001

Scale: 1:1250

A4

0m

100m

200m

300m

400m

↑

N

Searches - Cornerstone Projects Ltd

From: Plantenquiries <Plantenquiries@instalcom.co.uk>
Sent: 27 July 2021 10:58
To: 'Searches - Cornerstone Projects Ltd'
Subject: E07-21-5480 RE: Plant Enquiries - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

Dear Sir or Madam,

Thank you for your plant enquiry below.

We can confirm that Lumen Technologies (formerly CenturyLink Communications UK Limited, Level 3, Global Crossing (Uk) Ltd, Global Crossing PEC, Fibernet UK Ltd and Fibrespan Ltd) do not have any apparatus within the indicated works area.

Instalcom responds to plant enquiries for all of the above and therefore you only need send one plant enquiry to cover all of these companies.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: plantenquiries@instalcom.co.uk
Web: <http://www.instalcom.co.uk>



From: Searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Sent: 26 July 2021 12:28
To: Searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Subject: Plant Enquiries - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

Searches - Cornerstone Projects Ltd

From: UK OSP-Team <osp-team@uk.verizon.com>
Sent: 26 July 2021 13:06
To: Searches - Cornerstone Projects Ltd
Cc: UK OSP-Team
Subject: RE: [E] Plant Enquiries - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

We have reviewed your plans and have determined that Verizon (Formally known as MCI WorldCom, MFS) has no apparatus in the areas concerned.

If you have any further queries please do not hesitate to get in touch.

Yours faithfully

Plant Protection Officer (GB) Email osp-team@uk.verizon.com

From: Searches - Cornerstone Projects Ltd [<mailto:searches@cornerstoneprojects.co.uk>]
Sent: 26 July 2021 12:28
To: Searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Subject: [E] Plant Enquiries - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

Dear Sir/Madam,

Re: - Underground Apparatus / Plant

Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

In order that all reasonable precautions may be taken to avoid risk to health and safety through contact with any of your existing apparatus during execution of works at the above site location, please provide plan(s) indicating the general position and nature of your apparatus in the locality. In addition, please highlight any likely special problems that could arise in connection with your apparatus as a result of the works and any limitations on the quality of the information provided.

The proposed site area is centered accurately on the OS grid reference above and will be no more than 200m x 200m, unless noted otherwise in which case the site boundaries will be as marked on the attached plan. If you have no apparatus in the area of the proposed works, please send a nil return.

Your earliest response would be greatly appreciated.

Thanks,

INDEPENDENT UTILITIES

Searches - Cornerstone Projects Ltd

From: plantenquiryservice@gtc-uk.co.uk
Sent: 26 July 2021 14:20
To: searches@cornerstoneprojects.co.uk
Subject: GTC Plant Enquiry - Ref- 1957683
Attachments: 1957683.png

GTC Apparatus Not Found In Search Area

Our Plant Enquiry Service Ref: 1957683

Your Enquiry Ref: MynyddMaen

Dear Duncan,

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. GTC can confirm that we have no apparatus in the vicinity but please note that other asset owners may have and ensure all utility owners have been consulted. For your records, the search area is shown in the attached map.

Please note our assets now include those owned and operated by:

- GTC Pipelines Limited
- Independent Pipelines Limited
- Quadrant Pipelines Limited
- Electricity Network Company Limited
- Independent Power Networks Limited
- Independent Water Networks Limited
- Open Fibre Networks Limited
- Independent Community Heating Limited

If you have any queries or require any further information please do not hesitate to contact us.

Your sincerely,

GTC Plant Enquiry Service.

GTC
Synergy House
Woolpit Business Park
Woolpit
Bury St Edmunds
Suffolk, IP30 9UP
Tel: 01359 240363
plant.enquiries@gtc-uk.co.uk

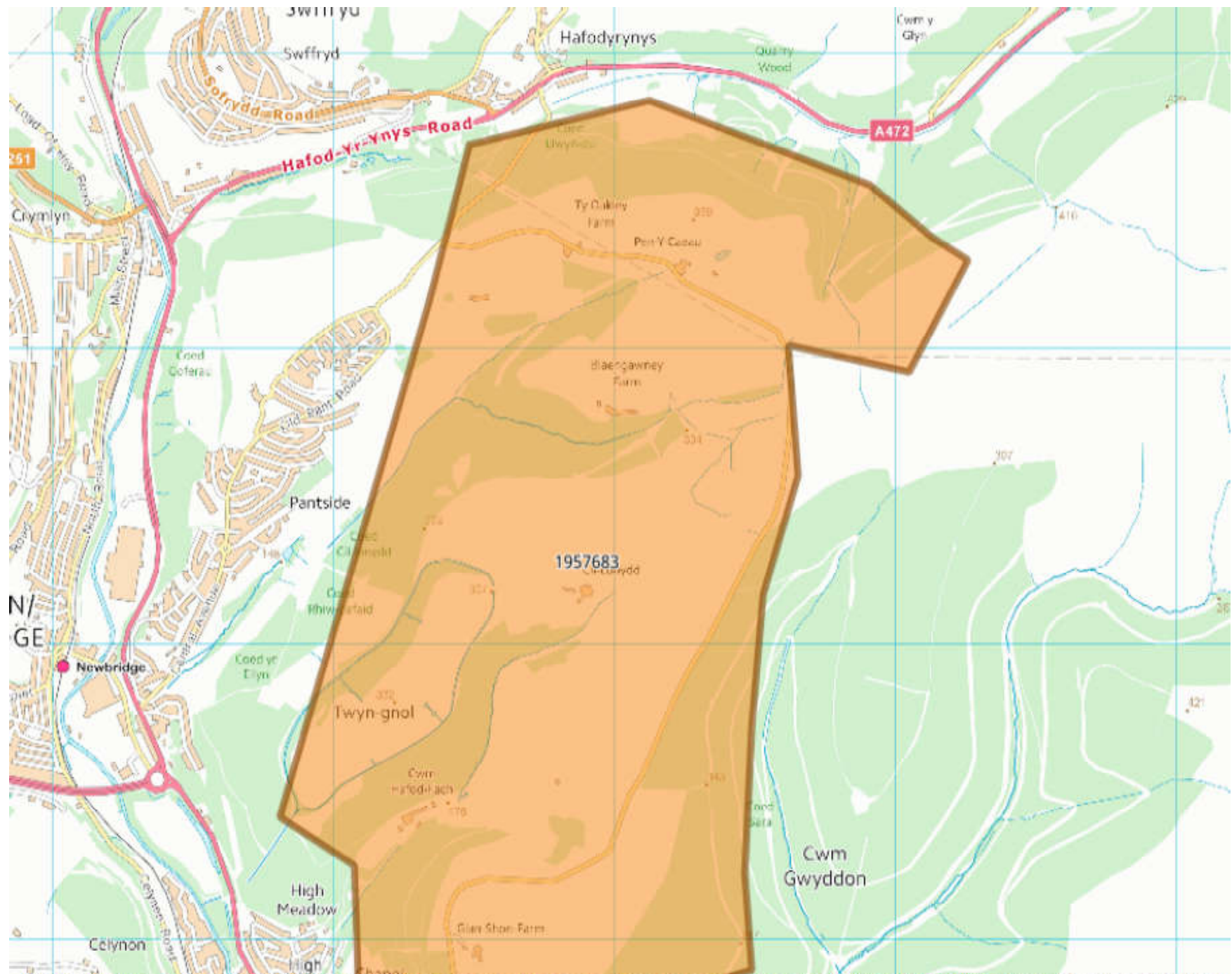
NOTE:

This E-Mail originates from GTC, Synergy House, Woolpit Business Park, Woolpit, Bury St Edmunds, Suffolk, IP30 9UP

VAT Number: GB688 8971 40. Registered No: 029431.

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GTC Plant Enquiry. Our Ref 1957683. Your Ref Mynydd Maen generated for searches @cornerstoneprojects.co.uk at 26/07/2021 14:19:47. This map shows the search area of

Searches - Cornerstone Projects Ltd

From: plantenquiryservice@gtc-uk.co.uk
Sent: 26 July 2021 14:20
To: searches@cornerstoneprojects.co.uk
Subject: GTC Plant Enquiry - Ref- 1957693
Attachments: 1957693.png

GTC Apparatus Not Found In Search Area

Our Plant Enquiry Service Ref: 1957693

Your Enquiry Ref: MynyddMaen.2

Dear Duncan,

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. GTC can confirm that we have no apparatus in the vicinity but please note that other asset owners may have and ensure all utility owners have been consulted. For your records, the search area is shown in the attached map.

Please note our assets now include those owned and operated by:

- GTC Pipelines Limited
- Independent Pipelines Limited
- Quadrant Pipelines Limited
- Electricity Network Company Limited
- Independent Power Networks Limited
- Independent Water Networks Limited
- Open Fibre Networks Limited
- Independent Community Heating Limited

If you have any queries or require any further information please do not hesitate to contact us.

Your sincerely,

GTC Plant Enquiry Service.

GTC
Synergy House
Woolpit Business Park
Woolpit
Bury St Edmunds
Suffolk, IP30 9UP
Tel: 01359 240363
plant.enquiries@gtc-uk.co.uk

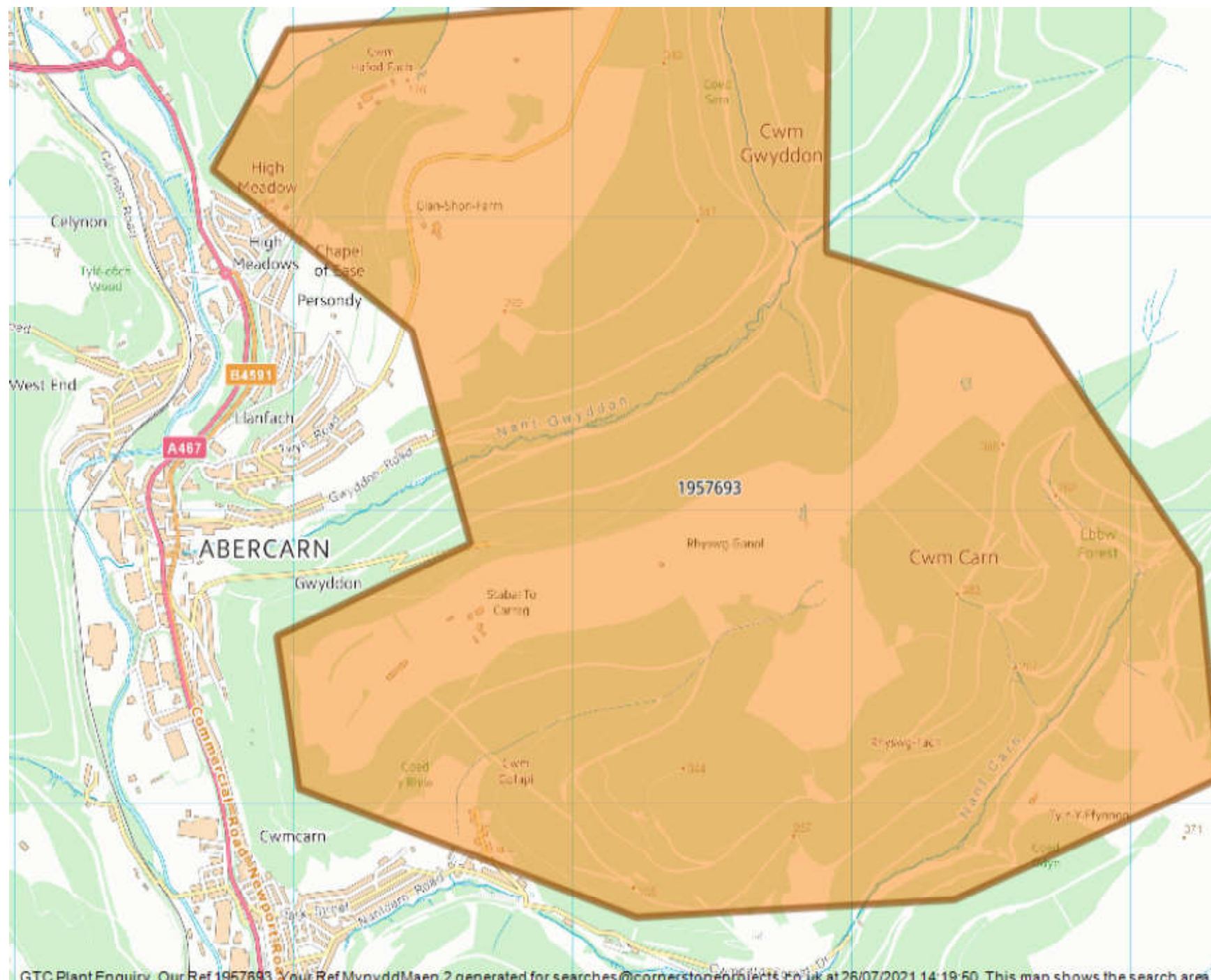
NOTE:

This E-Mail originates from GTC, Synergy House, Woolpit Business Park, Woolpit, Bury St Edmunds, Suffolk, IP30 9UP

VAT Number: GB688 8971 40. Registered No: 029431.

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Searches - Cornerstone Projects Ltd

From: Virtual Utilities <no-reply@virtual-utilities.co.uk>
Sent: 26 July 2021 14:00
To: Duncan Phillips
Subject: Your UK Power Distribution Order - #11486
Attachments: invoice-11486.pdf

Thank you for your order

Thanks for your recent enquiry to UK Power Distribution.

Please find attached your invoice. The details of your order are also below:

According to our database there are no UK Power Distribution records within your search area.

Please note that any recent additions or alterations to our network may not be shown. Cables or pipes owned by other network owners or private companies will not be shown.

Before any excavations are undertaken you should always verify exact locations of cables using a cable locator, and by careful use of hand tools in accordance with HSE guidance note HSG47 "Avoiding danger from underground services"

Other useful documents to read prior to undertaking any works are HSE GS6, "Avoiding danger from overhead power lines" and HSE "Avoiding concealed services and overhead power lines"

Order number: #11486

Description	Date	Qty	Amount (£)
Utility Records Search View Map	26-07-2021 13:00:02	1	187.50
		VAT (@ 20%)	37.50
		Grand Total	225.00

Your Details

Duncan Phillips

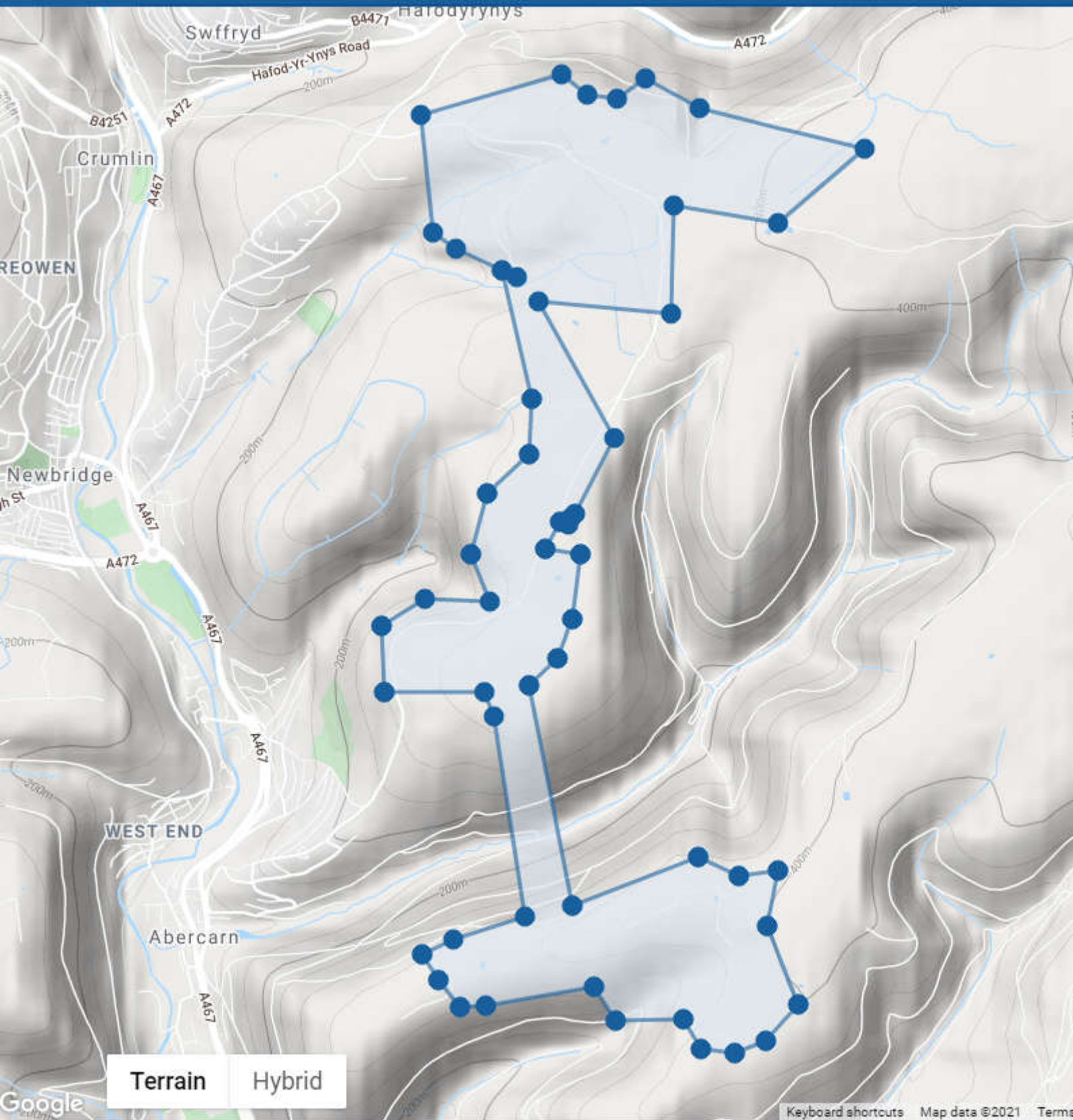
searches@cornerstoneprojects.co.uk

Billing Address

91 Market Street,
Wirral,
Merseyside,
CH475AA

<https://ukpd.virtual-utilities.co.uk>





Searches - Cornerstone Projects Ltd

From: Pipelines <pipelines@EnergyAssets.co.uk>
Sent: 26 July 2021 12:45
To: Searches - Cornerstone Projects Ltd
Subject: RE: [EXTERNAL] Plant enquiry - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

Good Afternoon

With regards to your request for details of existing services, we can confirm that based on the details provided to us, we have no buried plant or equipment in the identified area.

Kind Regards

From: Searches - Cornerstone Projects Ltd [mailto:searches@cornerstoneprojects.co.uk]
Sent: 26 July 2021 12:28
To: Searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Subject: [EXTERNAL] Plant enquiry - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

Dear Sir/Madam,

Re: - Underground Apparatus / Plant

Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

In order that all reasonable precautions may be taken to avoid risk to health and safety through contact with any of your existing apparatus during execution of works at the above site location, please provide plan(s) indicating the general position and nature of your apparatus in the locality. In addition, please highlight any likely special problems that could arise in connection with your apparatus as a result of the works and any limitations on the quality of the information provided.

The proposed site area is centered accurately on the OS grid reference above and will be no more than 200m x 200m, unless noted otherwise in which case the site boundaries will be as marked on the attached plan. If you have no apparatus in the area of the proposed works, please send a nil return.

Your earliest response would be greatly appreciated.

Thanks,

Ryan Lowndes

Project Manager – Highways and Major Projects

Cornerstone Projects Ltd

91 Market Street, Hoylake, Wirral CH47 5AA

www.cornerstoneprojects.co.uk

Email : enquiries@cornerstoneprojects.co.uk

Tel : 0151 632 5142

Registered in England 5132353.

Registered Address : Cornerstone Projects Ltd, 91 Market Street, Wirral, Merseyside CH47 5AA

Searches - Cornerstone Projects Ltd

From: Leep Electricity Networks <lenl@leeputilities.co.uk>
Sent: 30 July 2021 15:13
To: Searches - Cornerstone Projects Ltd
Subject: RE: Plant enquiry - Site Ref. MynyddMaen Mynydd Maen - Newbridge, Abercarn, , Caerphilly - NGR E323310 N196498

Leep Electricity Networks Ltd & Leep Utilities have no apparatus in this area.

Regards
Diane

Leep Electricity Networks
Take a look at our [website](#)

e: lenl@leeputilities.co.uk
w: www.leeputilities.co.uk
[Privacy Notice](#)

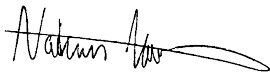


Leep Holdings (Utilities) Limited : Registered in England & Wales : Company Number 06729159 : Registered Office: The Greenhouse, MediaCity UK, Salford, M50 2EQ.

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QUALITY CHECK

Checked and issued by:	
Name:	
Date:	
Plans are valid until:	
Unless noted otherwise plans are valid for three months from date of issue - please note the date shown above is approximate. After the above date please contact us to arrange a refreshed utility search pack at www.cornerstoneprojects.co.uk Please refer to www.cornerstoneprojects.co.uk/terms.html for full Terms and Conditions.	

Cornerstone Projects Ltd is a UK wide desktop underground utility search expert:

- Market leading pricing and response times
 - Comprehensive utility database
 - 15 Years plus experience
 - Over 50,000 completed searches
 - Over 2750 registered businesses
- Searches to PAS 128 survey level D
 - ISO9001 certified company

Annex D

Wood (2021) Peat Depth Survey Report

Technical note:

Trecelyn Wind Farm – Peat Depth Survey Report

1. Introduction

Wood Group UK Limited (Wood) were commissioned by Pennant Walters Limited to complete peat depth probing at the site of the proposed Trecelyn Wind Farm, located over four separate areas approximately 1.5 to 3.0km to the east of Newbridge in Caerphilly, as illustrated in **Figure 1**. The National Grid Reference (NGR) for the four site centres are recorded in Table 1.1.

Table 1. Site Area Locations

Area	Easting	Northing	Topography
1 (Northern Plot)	323240	198230	Set on an area of sloping ground on the western flanks of Mynydd Llwyd ranging from approximately 330m Above Ordnance Datum (AOD) in the west of the site and 410m AOD in the east.
2 (Central Plot – North)	323190	196920	Gently sloping ground at approximately 350m AOD.
3 (Central Plot – South)	323040	196320	The site is situated on gently sloping ground. Ground elevation ranges between 350m AOD in the east and 290m AOD in the west.
4 (Southern Plot)	323750	194780	The site is situated on gently sloping ground along Cefn Rhyswg. Ground elevation ranges between 390m AOD in the east and 350m AOD in the west.

1.1 Scope of Works

The design of the peat survey was developed in general accordance with the Guidance on Developments on Peatland¹.

The Phase 1 survey was undertaken on a 100m x 100m grid of points across the site with peat depth measurement taken at each survey point. This factual report details the findings of the survey works and illustrates the survey points on a peat spot depth plan (included as **Figure 2**).

1.2 Limitations

The peat depth survey was undertaken in accordance with best practice guidance to characterise peat depths across the site. It should be recognised that the survey provides information characterising the variation of peat depths and that different conditions may be present between survey locations.

¹ Scottish Government, Scottish Natural Heritage, SEPA (2017) Peatland Survey. Guidance on Developments on Peatland, on-line version only.

Where utilities were identified a 50m exclusion zone was applied. Therefore, in some localised areas the grid spacing could not be fully adhered to. A Wales and West Utilities Engineer and BT engineer attended site with Wood's site manager to mark out the high-pressure gas main prior to any intrusive works.

2. Desk Study Information

2.1 Pedology

The Cranfield Soil and Agrifood Institute Soilscales map² indicates that the site is covered by freely draining acid loamy soils over rock.

2.2 Geology

The British Geological Survey Geoindex³ indicates no superficial deposits underlie the site.

The bedrock underlying the site is recorded as sandstone of the Hughes Member.

3. Survey Work

3.1 Methodology

The peat probing survey was undertaken in accordance with the locations and frequencies outlined in Section 1.1 and included the recording of the surveyed peat depths. The survey was undertaken using an extendable carbon fibre utility probe with lengths of probe carried to record depths of up to 8m below ground level (bgl). The probes are pushed into the ground by hand, until refusal on a hard stratum or obstruction.

The recorded depths were inputted into a personal digital assistant (PDA) with global position system (GPS) functionality to allow for a six figure NGR for each location.

The survey records the depth of any soft deposits (including peat) but is not exclusively related to peat depth and may include soft deposits that could also impact windfarm design and construction. No samples were obtained as part of this investigation.

3.2 Survey Findings

The Phase 1 peat depth survey was undertaken by Wood on the 16th September 2021 during a period of relatively dry weather. The survey comprised a total of 143 probes taken across the four site areas, revealing potential peat depths in the range of between 0.00m and 0.10m. The Welsh Government define true peat as being ≥ 0.4 m in depth. Therefore, the site can generally be considered as not being underlain by peat.

The peat survey data is enclosed in appendix A.

² Cranfield Soil and Agrifood Institute, Soilscales Map, <http://www.landis.org.uk/soilscales/>, accessed October 2021.

³ British Geological Survey Geoindex, <http://mapapps2.bgs.ac.uk/geoindex/home.html>, accessed October 2021.

4. Summary

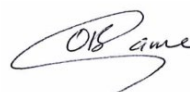
The survey indicated that the site is not underlain by peat with the peat probe refusing on hard stratum within the initial 0.1m bgl. The findings of the survey results are illustrated in Figure 2. The majority of the site is considered to be directly underlain by bedrock. However, this should be confirmed with an intrusive ground investigation. A Phase 2 peat survey is not considered necessary.

Prepared / Issued by



Rich Bagnall

Reviewed / Approved by



Ouarda Boumendjel-Game

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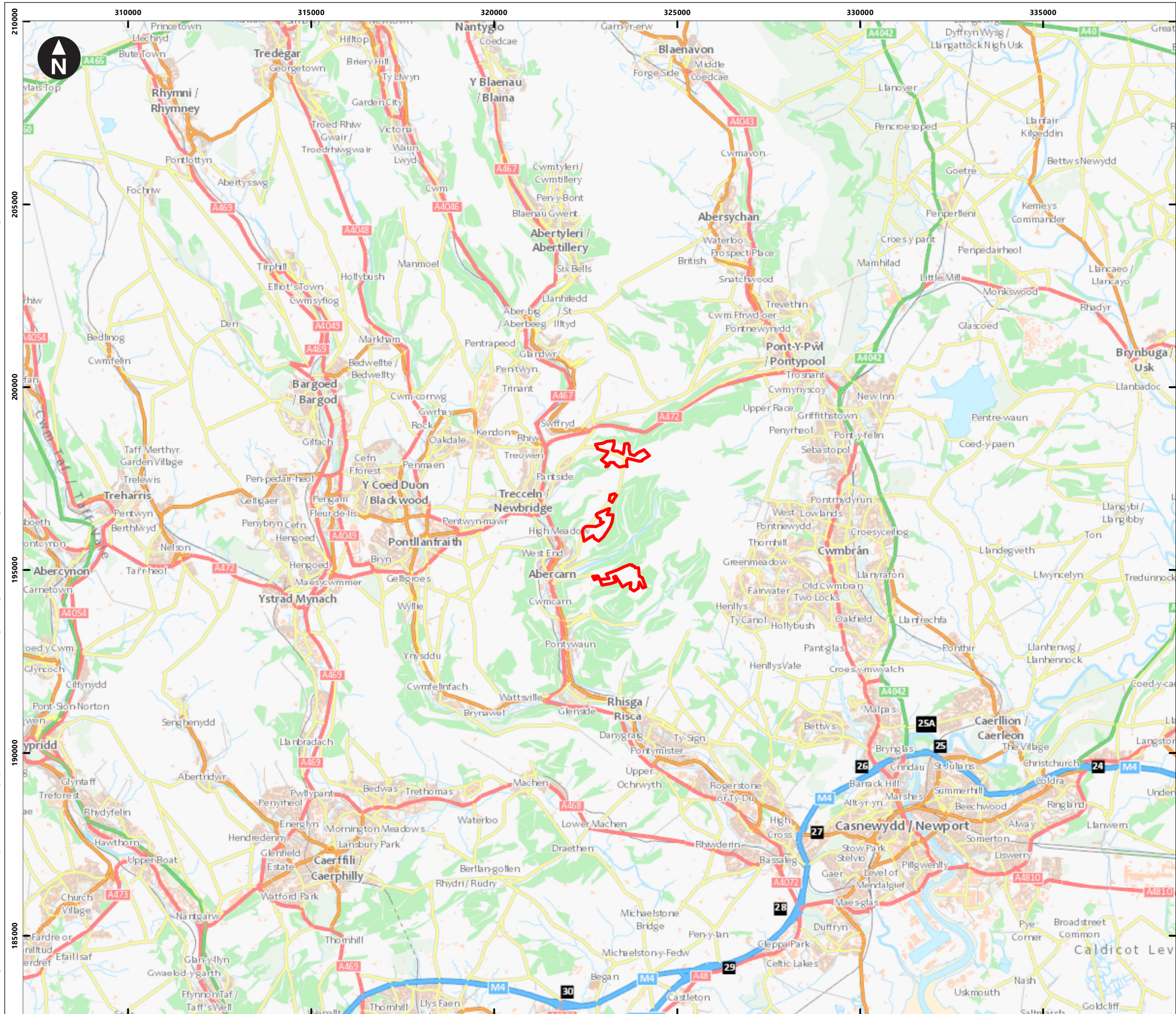
Management systems

This document has been produced by Wood Group UK Limited in full compliance with our management systems, which have been certified to ISO 9001, ISO 14001 and ISO 45001 by Lloyd's Register.




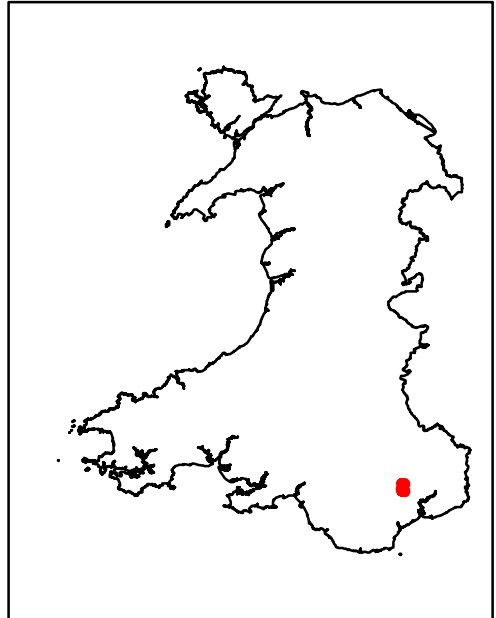
Figures

\\sal-fs12.global.amec.com\shared\Projects\807379 Mynydd Maen Wind Farm\Deliver Stage\Design Technical\Drawings\GIS\MXD\201002-WOOD-XX-XX-FG-R-00002_S0_P01.1.mxd Originator: laura.morales



Key

 Site Boundary



0 1.5 3 4.5 6 km


Scale at A3: 1:100,000

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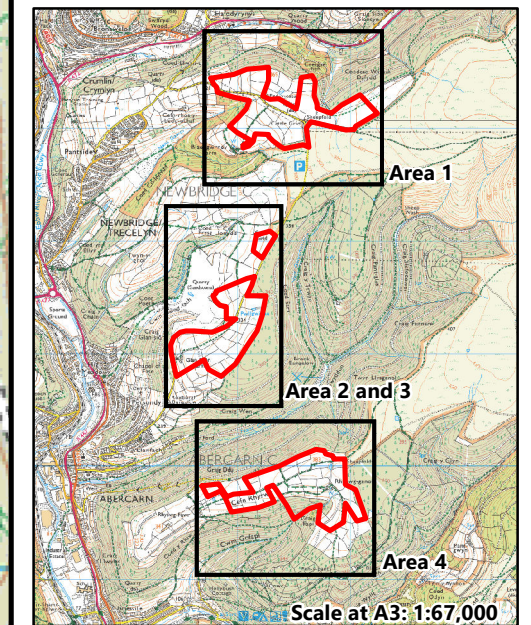
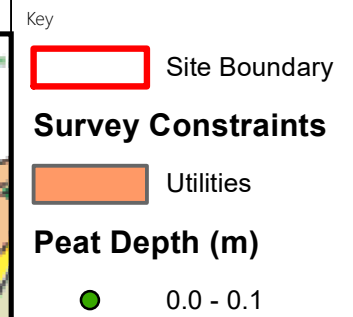
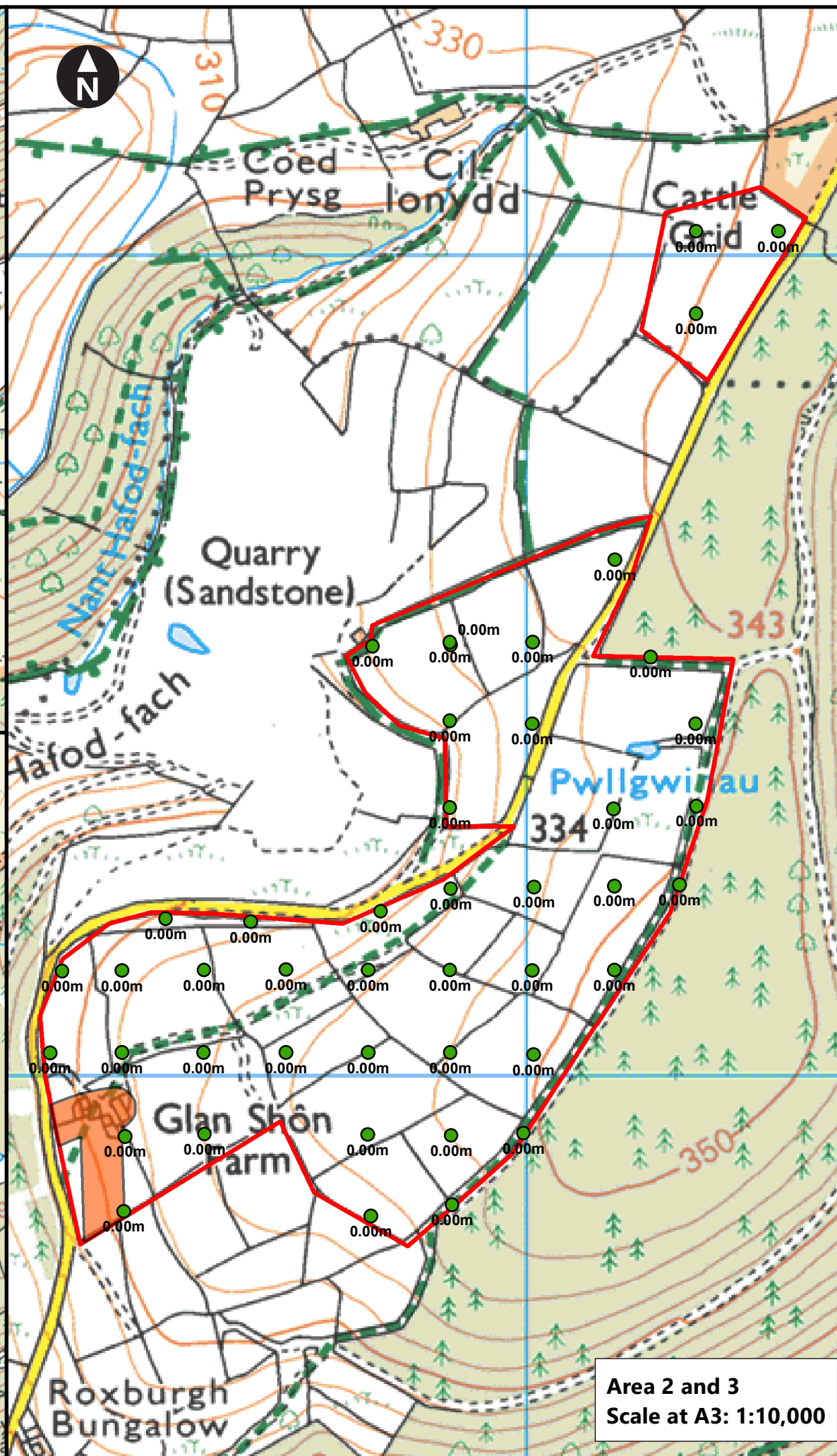
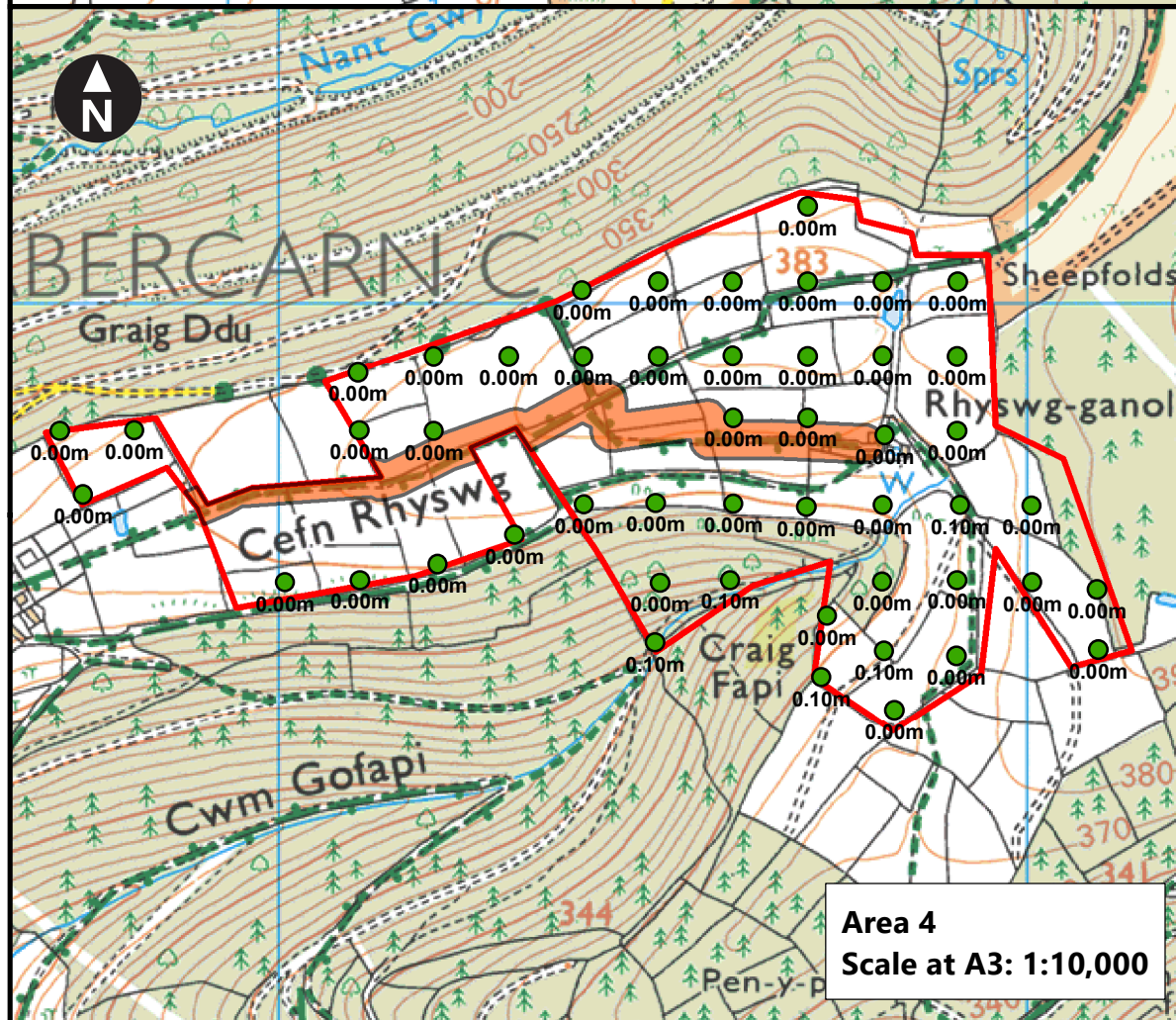
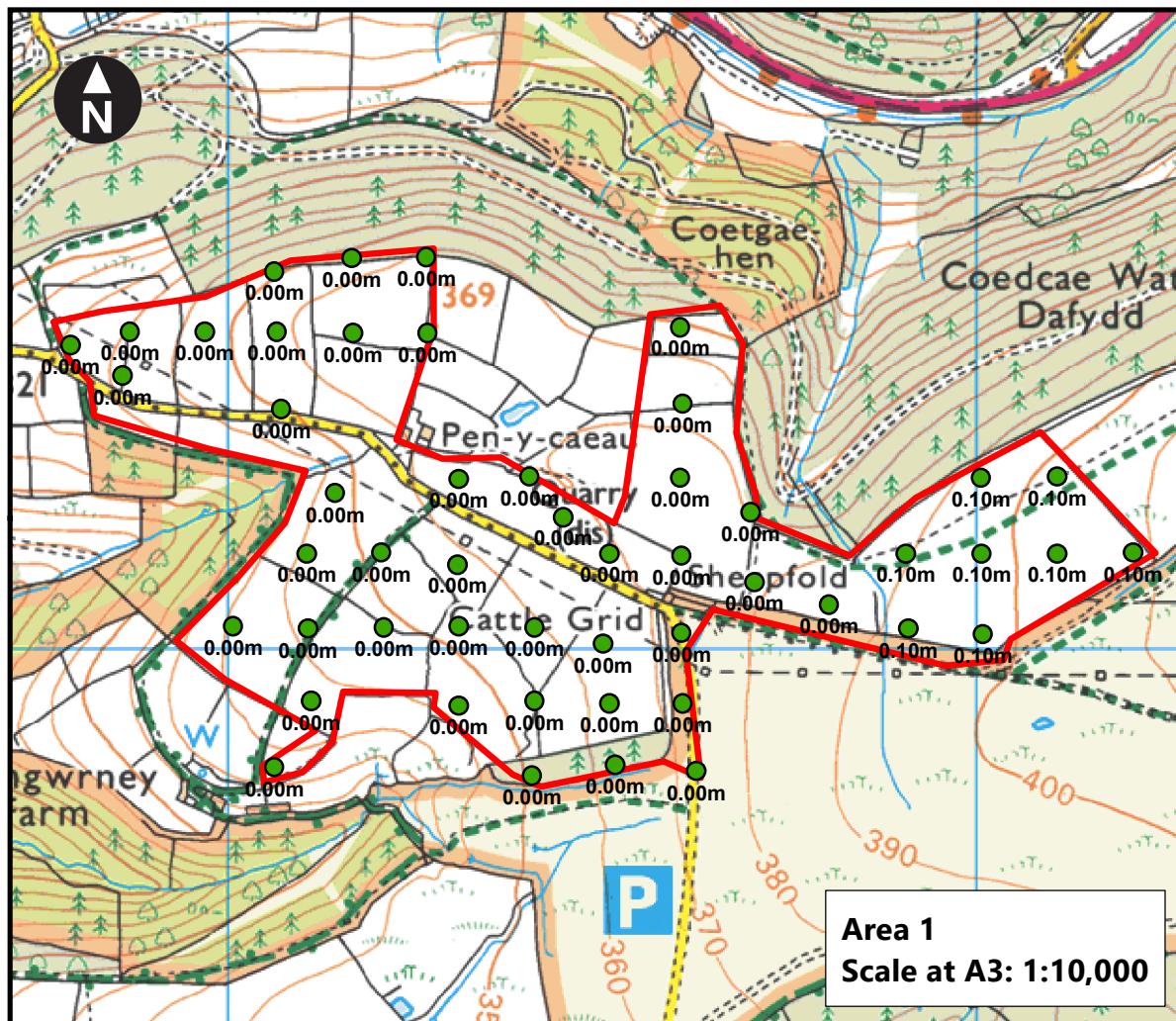
Mynydd Maen Wind Farm
Phase 1 Peat Depth Survey Report

**Figure 1.0
Site Location**

October 2021



\\sal-fs12.global.amec.com\shared\Projects\807379 Mynydd Maen Wind Farm\Deliver Stage\Design Technical\Drawings\GIS\MXD\201002-WOOD-XX-XX-FG-R-00001_S0_P01.1.mxd Originator: laura.morales



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0100031673

Mynydd Maen Wind Farm
Phase 1 Peat Depth Survey Report

Figure 2
Phase 1 Peat Depth Results

October 2021

wood.



Appendix A – Peat Probing Data

Appendix A
Mynydd Maen
Peat Depth Survey Results

Probe ID	Date	Peat Depth (m)	Easting	Northing
1	16/09/2021	0	322908	196526
2	16/09/2021	0	322813	196525
3	16/09/2021	0	322907	196434
4	16/09/2021	0	322907	196328
5	16/09/2021	0	323151	196511
6	16/09/2021	0	323207	196430
7	16/09/2021	0	323208	196330
8	16/09/2021	0	323106	196327
9	16/09/2021	0	323009	196231
10	16/09/2021	0	323107	196232
11	16/09/2021	0	323187	196234
12	16/09/2021	0	323107	196130
13	16/09/2021	0	323009	196027
14	16/09/2021	0	322997	195931
15	16/09/2021	0	322908	195929
16	16/09/2021	0	322910	195844
17	16/09/2021	0	322811	195830
18	16/09/2021	0	322608	195930
19	16/09/2021	0	322509	195836
20	16/09/2021	0	322511	195927
21	16/09/2021	0	322420	196029
22	16/09/2021	0	322435	196129
23	16/09/2021	0	322561	196193
24	16/09/2021	0	322664	196189
25	16/09/2021	0	323409	194731
26	16/09/2021	0	323315	194690
27	16/09/2021	0	323213	194652
28	16/09/2021	0	323109	194630
29	16/09/2021	0	323009	194627
30	16/09/2021	0.1	323503	194546
31	16/09/2021	0	323510	194626
32	16/09/2021	0.1	323604	194630
33	16/09/2021	0	323734	194582
34	16/09/2021	0.1	323726	194500
35	16/09/2021	0.1	323810	194536
36	16/09/2021	0	323823	194456
37	16/09/2021	0	323907	194529
38	16/09/2021	0	323907	194630
39	16/09/2021	0	323807	194627
40	16/09/2021	0	323504	194733
41	16/09/2021	0	323608	194732
42	16/09/2021	0	323706	194727
43	16/09/2021	0.1	323911	194731
44	16/09/2021	0	323808	194730
45	16/09/2021	0	323811	194824

Probe ID	Date	Peat Depth (m)	Easting	Northing
46	16/09/2021	0	323307	197030
47	16/09/2021	0	323207	197030
48	16/09/2021	0	323207	196930
49	16/09/2021	0	323108	196630
50	16/09/2021	0	323007	196530
51	16/09/2021	0	323007	196430
52	16/09/2021	0	322907	196530
53	16/09/2021	0	322908	196229
54	16/09/2021	0	323007	196130
55	16/09/2021	0	322907	196130
56	16/09/2021	0	322807	196130
57	16/09/2021	0	322907	196030
58	16/09/2021	0	322807	195929
59	16/09/2021	0	322807	196030
60	16/09/2021	0	322707	196030
61	16/09/2021	0	322607	196030
62	16/09/2021	0	322607	196130
63	16/09/2021	0	322707	196130
64	16/09/2021	0	322507	196129
65	16/09/2021	0	322507	196029
66	16/09/2021	0	323106	194908
67	16/09/2021	0	323108	194830
68	16/09/2021	0	322738	194745
69	16/09/2021	0	322707	194830
70	16/09/2021	0	322807	194830
71	16/09/2021	0	323208	194930
72	16/09/2021	0	323207	194830
73	16/09/2021	0	323307	194930
74	16/09/2021	0	323406	195017
75	16/09/2021	0	323407	194930
76	16/09/2021	0	323507	195029
77	16/09/2021	0	323508	194929
78	16/09/2021	0	323607	195030
79	16/09/2021	0	323707	195130
80	16/09/2021	0	323707	195030
81	16/09/2021	0	322823	196201
82	16/09/2021	0	323808	195029
83	16/09/2021	0	323908	195029
84	16/09/2021	0	323907	194930
85	16/09/2021	0	324096	194537
86	16/09/2021	0	324095	194618
87	16/09/2021	0	324008	194627
88	16/09/2021	0	324007	194729
89	16/09/2021	0	323907	194829
90	16/09/2021	0	323808	194930
91	16/09/2021	0	323608	194847
92	16/09/2021	0	323707	194847
93	16/09/2021	0	323607	194930
94	16/09/2021	0	323707	194929

Probe ID	Date	Peat Depth (m)	Easting	Northing
95	16/09/2021	0.1	324210	198130
96	16/09/2021	0.1	324109	198231
97	16/09/2021	0.1	324109	198128
98	16/09/2021	0.1	324007	198230
99	16/09/2021	0.1	324009	198128
100	16/09/2021	0.1	324010	198020
101	16/09/2021	0.1	323907	198128
102	16/09/2021	0.1	323910	198028
103	16/09/2021	0	323804	198060
104	16/09/2021	0	323704	198090
105	16/09/2021	0	323699	198184
106	16/09/2021	0	323605	198431
107	16/09/2021	0	323609	198328
108	16/09/2021	0	323605	198230
109	16/09/2021	0	323607	198125
110	16/09/2021	0	323510	198128
111	16/09/2021	0	323448	198177
112	16/09/2021	0	323404	198231
113	16/09/2021	0	323308	198228
114	16/09/2021	0	323266	198525
115	16/09/2021	0	323267	198423
116	16/09/2021	0	323167	198423
117	16/09/2021	0	323166	198523
118	16/09/2021	0	323062	198506
119	16/09/2021	0	323066	198425
120	16/09/2021	0	323072	198322
121	16/09/2021	0	322969	198425
122	16/09/2021	0	322869	198425
123	16/09/2021	0	322789	198407
124	16/09/2021	0	322859	198366
125	16/09/2021	0	323143	198209
126	16/09/2021	0	323105	198128
127	16/09/2021	0	323007	198031
128	16/09/2021	0	323107	198028
129	16/09/2021	0	323205	198130
130	16/09/2021	0	323307	198114
131	16/09/2021	0	323208	198030
132	16/09/2021	0	323112	197931
133	16/09/2021	0	323062	197842
134	16/09/2021	0	323308	198031
135	16/09/2021	0	323308	197925
136	16/09/2021	0	323410	198030
137	16/09/2021	0	323410	197931
138	16/09/2021	0	323407	197831
139	16/09/2021	0	323518	197845
140	16/09/2021	0	323510	197928
141	16/09/2021	0	323502	198007
142	16/09/2021	0	323607	198022
143	16/09/2021	0	323609	197928

Probe ID	Date	Peat Depth (m)	Easting	Northing
144	16/09/2021	0	323626	197838

Annex E

Site walkover photographs

NORTHERN AREA



Plate 1: Approximate proposed location of T1

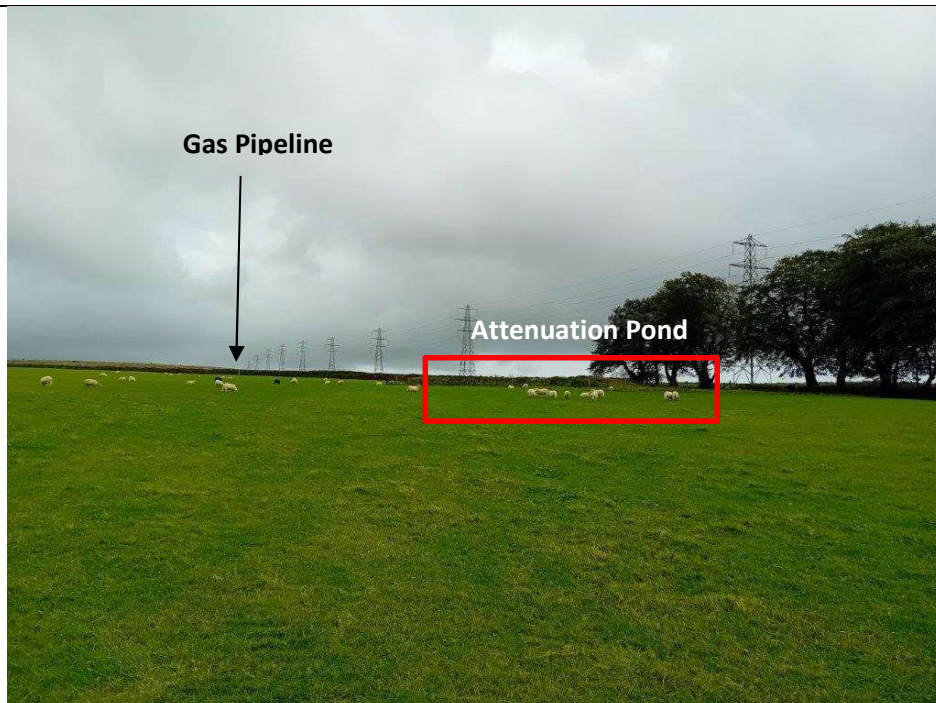


Plate 2: Gas pipeline and attenuation pond to the south-east of T1



Plate 3: Gas pipeline marker post



Plate 4: View of attenuation pond



Plate 5: View of attenuation pond



Plate 5: Landscaping around the outbuildings, Grade IV Pennant Sandstone (view west)



Plate 6: Landscaping around the outbuildings, Grade IV Pennant Sandstone (view south).



Plate 7: Example of steep slopes to the north of the site (323743 , 198161).



Plate 8: Quarry to the east of outbuildings associated with Pen Y Caearu Farm (323455 , 198187) (view East)



Plate 9: Quarry to the east of outbuildings associated with Pen Y Caearu Farm (323455 , 198187) (view North)



Plate 10: Close up of material within quarry area



Plate 11: Thickness of topsoil on site



Plate 12: Stockpile of material to the west of the recent quarried area



Plate 13: Example of sloping ground to the north of the site boundary.



Plate 14: Backscar within edge of site boundary



Plate 15: Backscar within edge of site boundary



Plate 16: Stock pile of material within Ty Oakley Farm, range of material stored.



Plate 17: Condition of cutting at back (eastern) side of Ty Oakley Farm buildings.



Plate 18: Condition of cutting at back (eastern) side of Ty Oakley Farm buildings.



Plate 19: Proposed location of substation.



Plate 20: Level difference between road level and surrounding fields (in proposed location of substation).



Plate 21: Potential spring line running immediately north of woodland (323464 (E), 197853 (N))



Plate 22: Saturated ground / ponding water which extends approximately 10m north of wooded area



Plate 23: Large area of saturated ground / ponding water (323368 , 197844) corresponds with area identified as 'broken bank' on historic maps

CENTRAL AREA



Plate 24: Proposed location of T2

SOUTHERN AREA



Plate 25: Stock pile of material in Glan-shon Farm (NGR 322676 , 196002)



Plate 26: Example of material in stockpile



Plate 27: Proposed location of T4



Plate 28: Proposed location of T3



Plate 30: Field boundary between site and opencast operational site has masonry retaining wall ~1m (322810 , 196520) extent of wall not clear as area not accessible.



Plate 31: Potential quarried area at 322761 , 196130.



Plate 32: Tanks observed along field boundary (322692 , 196190)



Plate 33: Area of recently burnt material (322724 , 196071).



Plate 34: Stockpile of material within Glan-shon Farm (322503 , 196082)



Plate 35: Potential asbestos within stockpile at Glan-shon Farm

Annex F

Risk Assessment Methodology

The environmental risk assessment aims to assess the significance of each potential contaminant linkage. The key to the classification is that the designation of risk is based upon the consideration of both:

- **The magnitude of the potential consequence (i.e., severity).** It considers both the potential severity of the hazard and the sensitivity of the receptor.
- **The magnitude of probability (i.e., likelihood).** It considers both the presence of the hazard and receptor and the integrity of the pathway.

The definitions for the qualitative risk assessment have been taken from "Guidance for the Safe Development of Housing on Land Affected by Contamination" Annex 4 R&D Publication 66: 2008 Volume 2.

The Likelihood Probability Classifications of SPR Linkage being realised is presented in Table F.1.

Table F.1 Preliminary risk assessment

Classification	Definition	Examples
Unlikely	There is pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.	a) Elevated concentrations of toxic contaminants are present below hardstanding. b) Light industrial unit <10 yrs old containing a double skinned UST with annual integrity testing results available.
Low Likelihood	There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place and is less likely in the shorter term.	a) Elevated concentrations of toxic contaminants are present in soils at depths >1m in a residential garden, or 0.5-1.0m in public open space. b) Ground/groundwater contamination could be present on a light industrial unit constructed in the 1990s containing a UST in operation over the last 10 years – the tank is double skinned but there is no integrity testing or evidence of leakage.
Likely	There is pollutant linkage, and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term.	a) Elevated concentrations of toxic contaminants are present in soils at depths of 0.5-1.0m in a residential garden, or the top 0.5m in public open space. b) Ground/ groundwater contamination could be present from an industrial Site containing a UST present between 1970 and 1990. The tank is known to be single skin. There is no evidence of leakage although there are no records of integrity tests.

Classification	Definition	Examples
High Likelihood	There is pollutant linkage, and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution	a) Elevated concentrations of toxic contaminants are present in soils in the top 0.5m in a residential garden. b) Ground/groundwater contamination could be present from chemical works, containing a number of USTs, having been in operation on the same Site for over 50 years.

“Potential Consequence of Contaminant Linkage” gives an indication of the sensitivity of a given receptor to a particular source or contaminant of concern under consideration. It is based on full exposure via the particular linkage being examined. The classification of consequence is presented in Table F.2.

Table F.2 Outline of Hazard Consequence Classifications for Receptor Types from Contamination Impact

Classification	Human Health	Controlled Water	Ecology	Property Structures/ Crops and animals	Examples
Severe	Highly elevated concentrations likely to result in “significant harm” to human health as defined by the EPA 1990, Part 2A, if exposure occurs.	Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce.	Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population.	Catastrophic damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Major fish kill in surface water from large spillage of contaminants from Site. Highly elevated concentrations of Hazardous or priority substances present in groundwater close to small potable abstraction (high sensitivity). Explosion, causing building collapse (can also equate to immediate human health risk if buildings are occupied).
Medium	Elevated concentrations which could result in “significant harm” to human health as defined by the EPA 1990, Part 2A if exposure occurs.	Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or	Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term	Significant damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Damage to building rendering it unsafe to occupy e.g., foundation damage resulting in instability. Ingress of contaminants through plastic potable water pipes.

significant damage to agriculture or commerce.

maintenance of the population.

Mild	Exposure to human health unlikely to lead to “significant harm”.	Equivalent to EA Category 3 pollution incident including minimal or short-lived effect on water quality; marginal effect on amenity value, agriculture or commerce.	Minor or short-lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population.	Minor damage to crops, buildings or property.	Exposure could lead to slight short-term effects (e.g., mild skin rash). Surface spalling of concrete.
Minor	No measurable effects on humans	Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.	Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.	Repairable effects of damage to buildings, structures and services.	The loss of plants in a landscaping scheme. Discoloration of concrete.

The risk matrix to link the likelihood and consequence is shown in Table F.3.

Table F.3 Risk Matrix

Likelihood:	Unlikely	Low Likelihood	Likely	High Likelihood
Potential Consequence:				
Severe	Moderate/low risk	Moderate Risk	High Risk	Very High Risk
Medium	Low	Moderate/low risk	Moderate Risk	High Risk
Mild	Very low risk	Low Risk	Moderate/low risk	Moderate Risk
Minor	Very low risk	Very low risk	Low Risk	Low Risk

The overall risk definitions are summarised in Table F.4.

Table F.4 Risk Definitions

Risk	Definition
Very Low	It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.
Low	It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the Site owner/or occupier would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to Site owner/occupier. Some remediation works may be required in the longer term.
High	Harm is likely to arise to a designated receptor from an identified hazard at the Site without remediation action. Realisation of the risk is likely to present a substantial liability to the Site owner/or occupier. Investigation is required as a matter of urgency to clarify the risk.

Remediation works may be necessary in the short-term and are likely over the longer term.

Very High

There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the Site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to be Site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.

