COAL MINING RISK ASSESSMENT

for

GELLIARGWELLT FARM, GELLIGAER, HENGOED

Prepared for:-

BRYN QUARRY

Submitted by:-

JPCE

(John Perkins Consulting Engineers)
Bronhaul Abernant Road
Aberdare
Mid-Glamorgan
CF44 0PY

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1. INTRODUCTION

1.1. General

Bryn Quarry (the Client) have appointed JPCE to provide a Coal Mining Risk Assessment in support of the Planning Applications reference 11/0226/full and 11/0224/full associated with the proposed construction of a Materials Recycling Facility, Anaerobic Digester and the extension to the existing sandstone quarry

Bryn Quarry is located off the B4254, from Nelson to Gelligaer, approximately 1.5km to the east of the village of Trelewis. (NGR ST 122 969). A Site Location Plan is presented as Figure 1.

1.2. Purpose of the Coal Mining Risk Assessment

The purpose and scope of this Coal Mining Risk Assessment is to:

- Review up to date site specific information;
- Identify and assess the risks to the proposed development;
- Set out the mitigation strategy and how coal mining legacy has influenced the development;
- Demonstrate to the Local Planning Authority (LPA) that the site is or can be made safe and stable.

1.3. Sources of information used to inform the report

An attempt has been made to identify any mining operations past and present that have taken place in the vicinity (min. 500m) of the site. The sources of information referenced in this report:

- Coal Authority Mining Report (reference 00033678-11, dated 05 May 2011);
- EnviroCheck historical mapping data (at 1:25,000 and 1:10,000) supplied by Landmark (reference 36083971_1_1);
- Geology maps (at 1:10,000) supplied by Landmark (reference 36083971_1_1);
- British Geological Society geological map (British Geological Society, Sheet 249 "Newport", Solid edition at 1:50,000).

The opinions expressed in this report and the comments and recommendations given, are based on the information obtained from the desk assessment. No intrusive investigations have been undertaken to confirm the actual ground conditions.

The information, views and conclusions drawn concerning the site are based, in part, on information supplied to JPCE by other parties. JPCE has proceeded in good faith on the assumption that this information is accurate. JPCE accepts no liability for any inaccurate conclusions, assumptions or actions taken resulting from any inaccurate information supplied to JPCE from others.

Any risks identified in this desk study are perceived risks, based on the information reviewed; actual risks can only be assessed following a physical investigation on site.

2. IDENTIFICATION AND ASSESSMENT SITE SPECIFIC RISKS

2.1. Site specific information

We summarise the information collated in preparing this report, which we believe is relevant to the conclusions contained in this report.

2.1.1 Coal Authority Mining Report

A brief mining report provided by the Coal Authority is presented in Appendix B. This report indicates that the site lies within the likely zone of influence on the surface from workings in a number of both shallow and deep coal seams up to 840m depth, the last date of working being 1991. According to the report, ground movement resulting from these past workings should now have ceased.

Coal seams also existed close to the surface that were worked within the past 40 years, the approximate extent of those workings are shown on the attached drawings.

Reserves of coal still exist in the area, which could potentially be worked in the future.

The Coal Authority has no records of any evidence or damage arising from any geological faults or lines of weakness that having been affected by mining.

2.1.2 EnviroCheck historical mapping data

The historical maps support the Coal Authority records regarding opencast coal mining taking place within the application area. The 1:10,000 scale maps show the workings to the south of the farmhouse between the years 1965-1990.

The extent of the workings as deduced from the above maps is shown shaded light blue on Figure 2.

As is usual with opencast mining it is suggested that all of the commercially extractable coal as well as the voids created in the course of deep mining will have been removed and treated, during the opencast mining.

To the north of the fault line only 2 shafts are indicated on the historical mapping. The positions of which are shown on Figure 2. The descriptions on the maps are shown to be "Trial Shafts (Coal)", thus indicating that they probably did not provide working access to any underlying coal seams.

2.1.3 Geology maps

The site is bisected by a recorded geological fault, the "Gelligaer Fault"; this fault line is recorded as running roughly north-west to south-east to the south of the Gelliargwellt Farmhouse. The geological maps show a down-throw of the geology to the south. An inspection of the locations of the recorded shafts and levels indicate that most of the shafts and levels are to the south of the fault. It is deduced therefore that the productive coal seams are closer to the ground surface to the south of the fault.

2.2. Assessment of how the risks affect the proposed developments

Since the opencast operations ceased, large areas of the proposed development area have been the subject of a land-raise filling operation as detailed in previous successful planning applications. The effects of this are to have provided a surcharge to all of the opencast backfill, thus ensuring that significant consolidation of the backfill will have taken place. This will lead to the risks of instability reducing, leading to a more robust construction.

3. MITIGATION STRATEGY

3.1. How the risks have influenced the proposed development

It is considered that the risks to the development as a result of the existing below ground conditions are in the 'Low' category.

3.2. Proposed mitigation strategy

Before future development takes place, as part of the design process, a Site Investigation programme will be designed to prove the correctness of this report and to assist in the design process.

It is likely that all foundations for the proposed structures will be designed to accommodate any potential movement associated with any future possible collapse of past underground workings.

3.3. Identify whether Coal Authority Permission will be required

It is submitted that Coal Authority permission will not be required as the application area does not lie within areas where the Authority is considering granting licences for coal extraction either by underground or surface extraction methods.

4. CONCLUSION

- **4.1.** There are numerous instances of underground mining as well as chartered, but not fully recorded mine entries in and around the application site.
- **4.2.** Many of these entries are historical, apparently shallow but with no detailed records of the extent, if any, of workings leading from the shafts.
- **4.3.** The majority of the immediate movement should have occurred within a reasonable timeframe following the withdrawal of support provided at the time of coal extraction. However, there may be some further limited residual movements possible within the geological structure of the area which are not fully identified at this stage.
- **4.4.** As such it would be prudent to design foundations for structures to accommodate any future movement that may occur.
- **4.5.** It is noted that the foundations for the existing IVC building were designed to act as a raft foundation thus accommodating movement, should any occur.
- **4.6.** A similar approach is anticipated for the new development at the site although such details are capable of being adequately controlled by means of a suitable worded condition attached to any forthcoming consent for the site. In addition, any new development will also be required to satisfy development under the Building Regulations Act. This will further serve to control the engineering and foundation details to ensure their appropriateness for the ground conditions at the site.

Report Prepared by

B M Jones BSc. MSc FGS

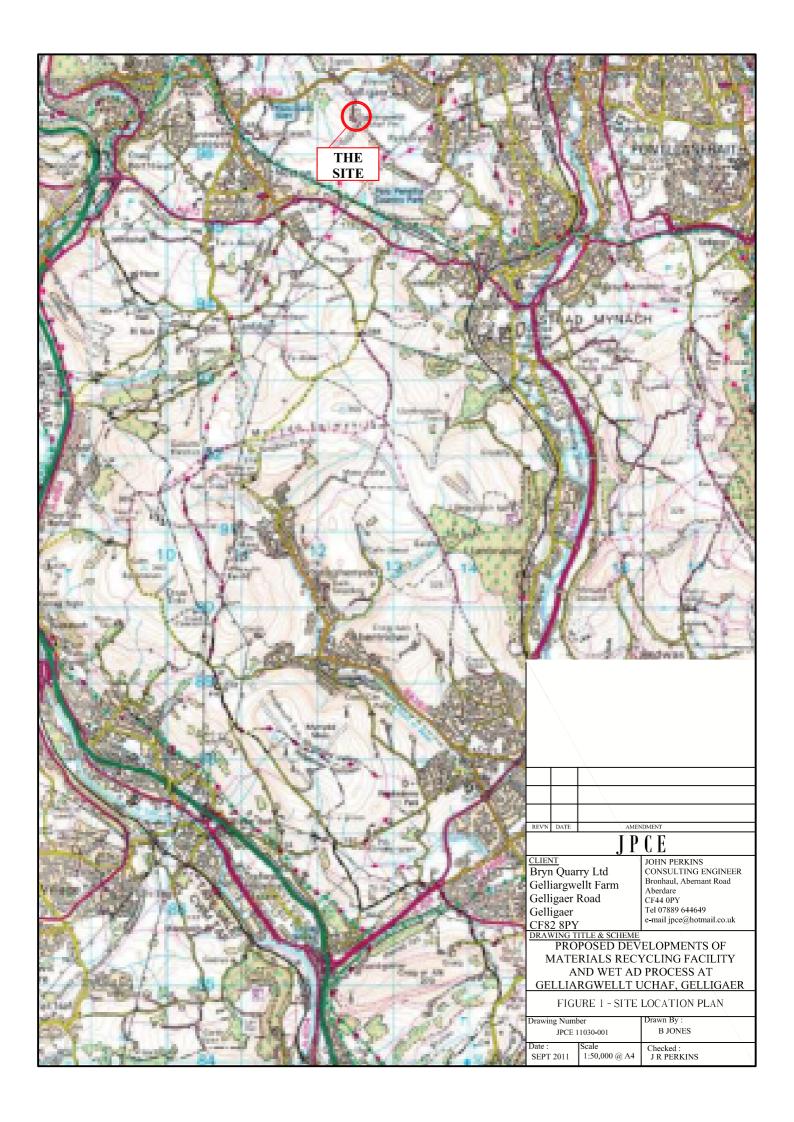
Report Reviewed by

J R Perkins BSc. C.Eng MICE

17 September 2011.

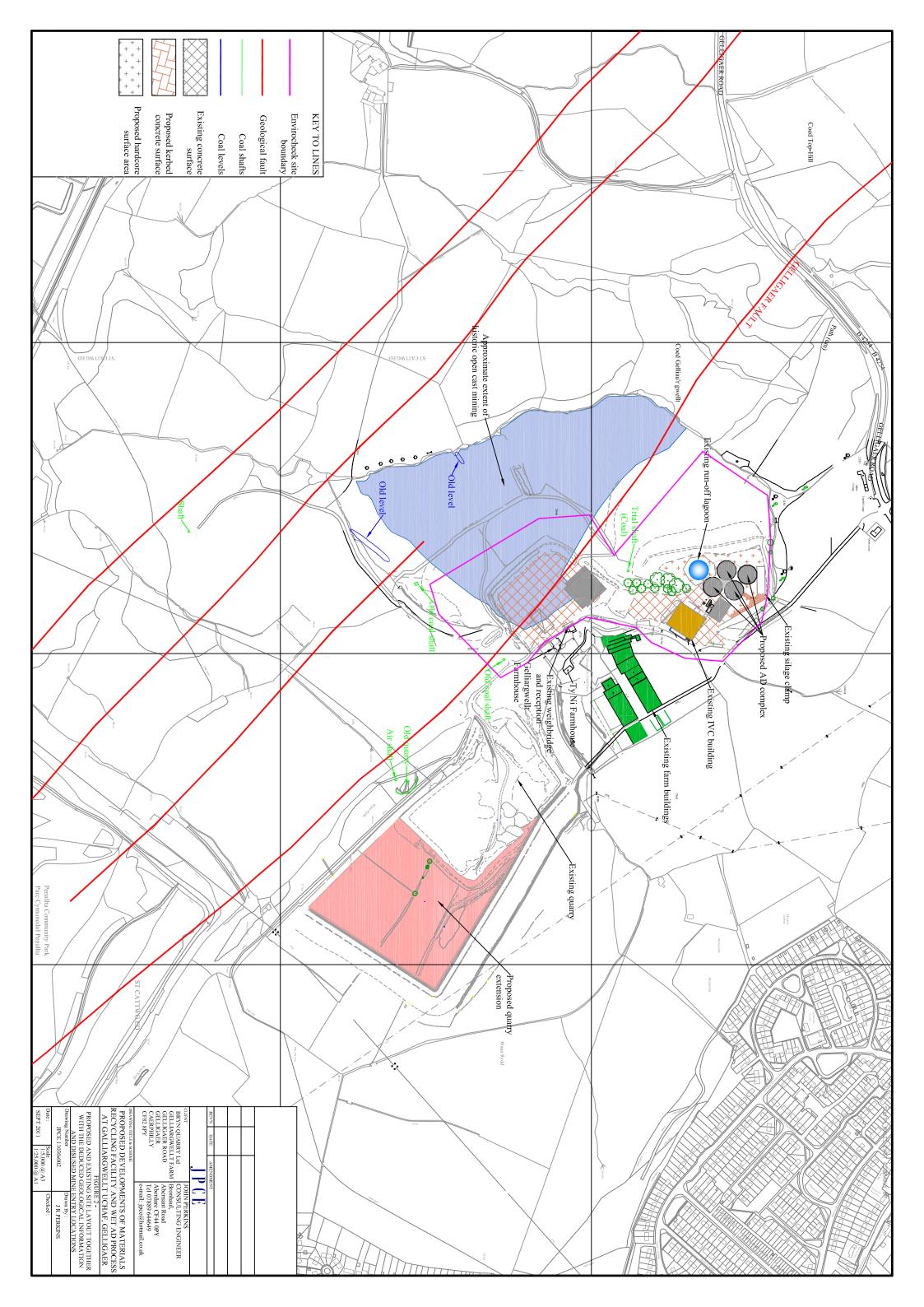
FIGURES

JPCE September 2011



Appendix A ENVIROCHECK INCLUDING HISTORICAL ORDNANCE SURVEY MAPS

JPCE September 2011



Appendix B COAL AUTHORITY MINING REPORT

JPCE September 2011



Issued by:

MARK ROBERTS,

RPS PLANNING, PARK HOUSE,

CARDIFF.

CF10 3AF

GREYFRIARS ROAD.

The Coal Authority, Mining Reports Office, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire NG18 4RG ON-Line Service: www.groundstability.com - Phone: 0845 762 6848 - DX 716176 MANSFIELD 5

Person dealing with this matter: Louise Tipper

Our reference: **00033678-11**

Your reference: JCC8026

Electronic Ref:

RRUID: 007.00030339550001

Date of your enquiry: 05 May 2011

Date we received your enquiry: 05 May 2011

Date of issue: 06 June 2011

This report is for the property described in the address below and the attached plan.

Non-Residential Coal and Brine Report Gelliargwellt Farm, Gelligaer, Hengoed, Mid Glamorgan

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	Yes
Brine Compensation District	No

Information from the Coal Authority Underground Coal Mining

Past

The property is in the likely zone of influence from workings in 9 seams of coal at shallow to 840m depth, and last worked in 1991.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove coal using underground methods.

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The property is not in an area that is likely to be affected at the surface from any planned future workings.

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

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

Within, or within 20 metres of, the boundary of the property there are 16 mine entries, the approximate positions of which are shown on the attached plan.

Coal Authority records disclose the following information:

312196-018. No treatment details.

312196-016. No treatment details.

312196-023. No treatment details.

312196-021. This mine entry may have been partially or wholly excavated during past opencast mining

312196-017. This mine entry may have been partially or wholly excavated during past opencast mining

312196-014. This mine entry may have been partially or wholly excavated during past opencast mining

312196-011. This mine entry may have been partially or wholly excavated during past opencast mining

312196-007. No treatment details.

312196-004. This mine entry may have been partially or wholly excavated during past opencast mining

312196-003. No treatment details.

312196-009. No treatment details.

312196-022. This mine entry may have been partially or wholly excavated during past opencast mining

312196-015. This mine entry may have been partially or wholly excavated during past opencast mining

312196-008. This mine entry may have been partially or wholly excavated during past opencast mining

312196-020. This mine entry may have been partially or wholly excavated during past opencast mining

312196-010. This mine entry may have been partially or wholly excavated during past opencast mining

Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

Coal-mining geology

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

Opencast Coal Mining

Past

The property is within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

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

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

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

Coal-mining subsidence

A damage notice or claim for alleged subsidence damage was given, made or pursued in December 1995. However, the claim was rejected.

A damage notice or claim for alleged subsidence damage was given, made or pursued in May 1994. However, the claim was rejected.

A damage notice or claim for alleged subsidence damage was given, made or pursued in June 1993. The claim was discharged by repair.

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

The 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.

If further subsidence damage claims information is required in addition to that provided in this report, the Authority need to manually search their records. Such further enquiries should be made under separate cover to The Coal Authority, Claims History Service at the above address or by telephone. Payment to be made by credit or debit card or can be charged to your monthly account if applicable. Alternatively, it may be that such information can be obtained by directing further enquiries to the present owner.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

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

Withdrawal of Support

The property is in an area for which notices of entitlement to withdraw support were published in 1976,1986.

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

Working Facilities Orders

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

Payments to Owners of Former Copyhold Land

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

Comments on Coal Authority information

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/ former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

The attached plan shows the approximate location of the disused mine entry/entries referred to in this report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan. Property owners have the benefit of statutory protection (under the Coal Mining Subsidence act 1991*). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and the obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by telephoning 0845 762 6848 or online at www.coal.gov.uk/services/subsidence. If you wish to discuss the relevance of any of the information contained in this report you should seek the advice of a qualified mining engineer or surveyor. If you or your adviser wish to examine the source plans from which the information has been taken these are normally available at our Mansfield office, free of charge, by prior appointment, telephone 01623 637233. Should you or your adviser wish to carry out any physical investigations that may enter, disturb or interfere with any disused mine entry the prior permission of the owner must be sought. For coal mine entries the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries). Our emergency telephone number at all times is 01623 646333.

*Note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional remarks

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The report is compliant with Home Information Pack requirements.

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Issued by: The Coal Authority, 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG

Date: 06 Jun 2011

Coal and Brine Report at: Gelliargwellt Farm, Gelligaer, Hengoed, Mid Glamorgan

Reference number: 00033678-11

 Cost:
 £128.00

 Plus VAT:
 £25.60

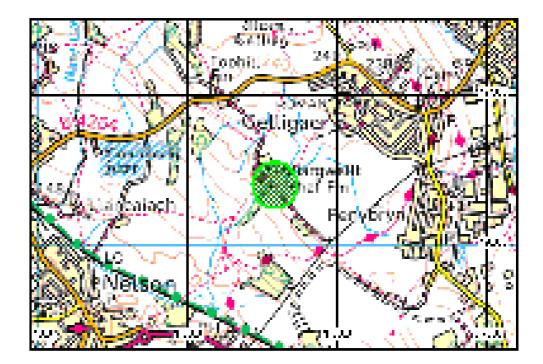
 Total received:
 £153.60

 VAT registration number:
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Location map



Approximate position of property



Enquiry boundary

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Key

Approximate position of enquiry boundary shown

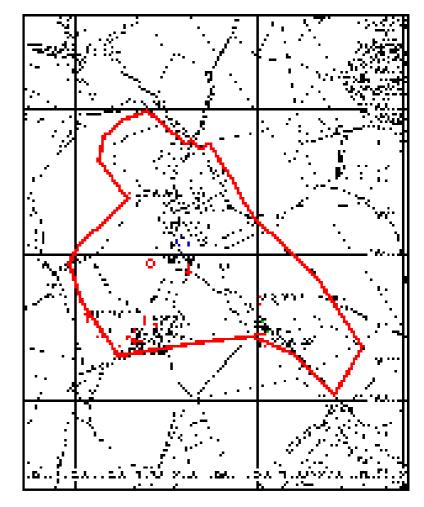


Coal Authority mining subsidence claim boundary shown



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Historical Mapping Legends

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



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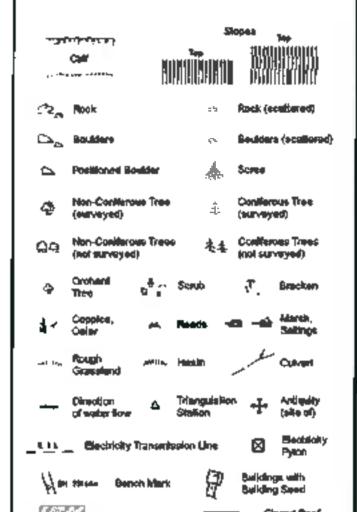
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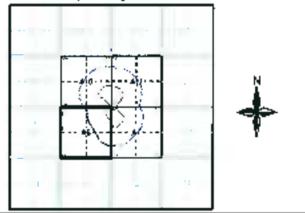




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Envirocheck*

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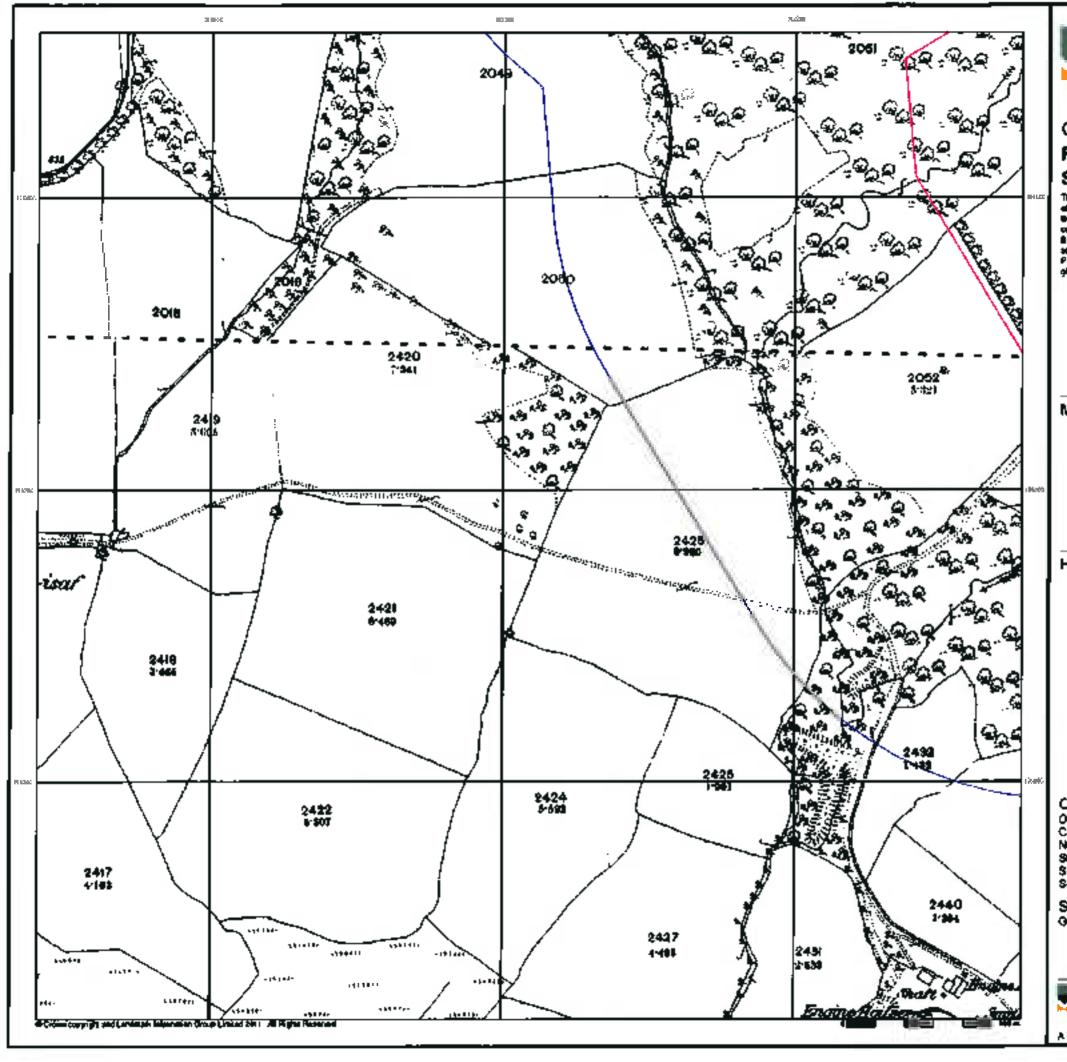
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Site Details

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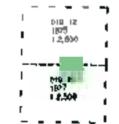


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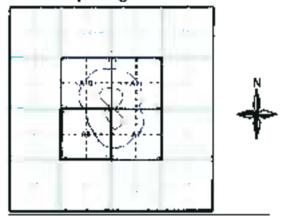
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Map Name(s) and Date(s)



Historical Map - Segment A6



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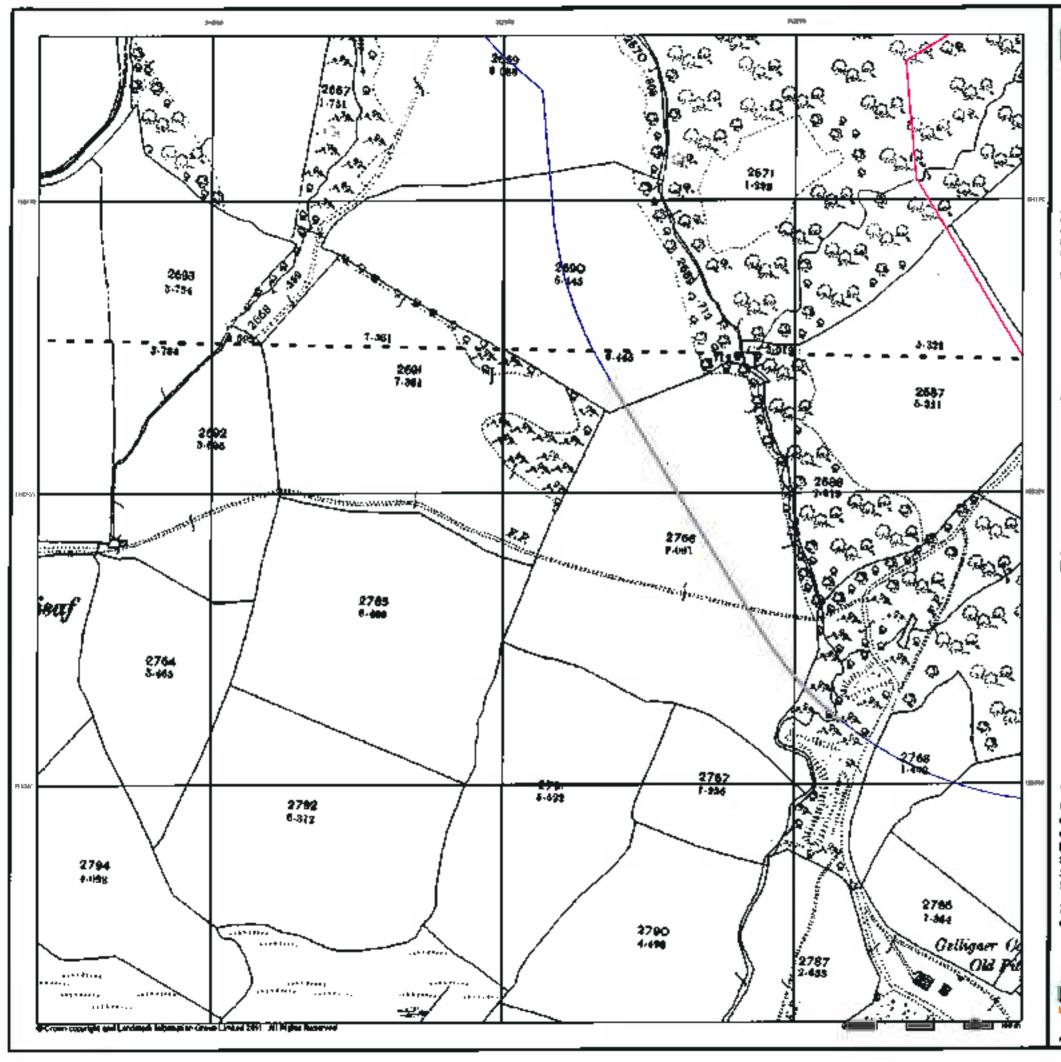
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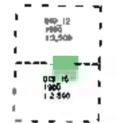
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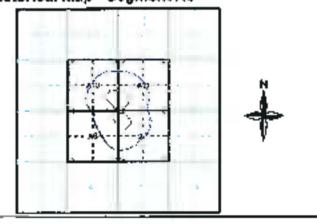
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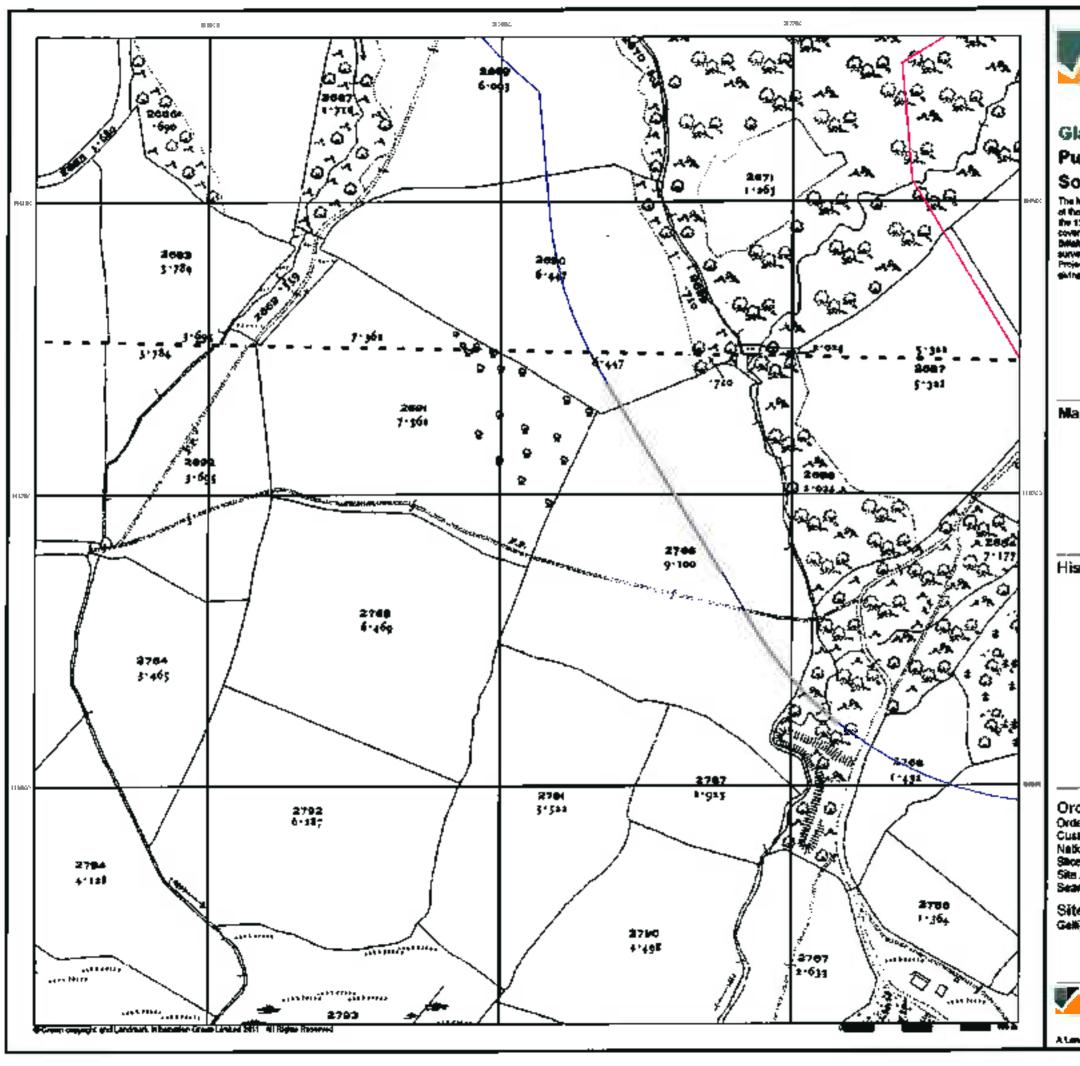
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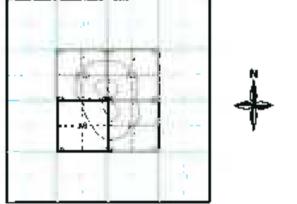
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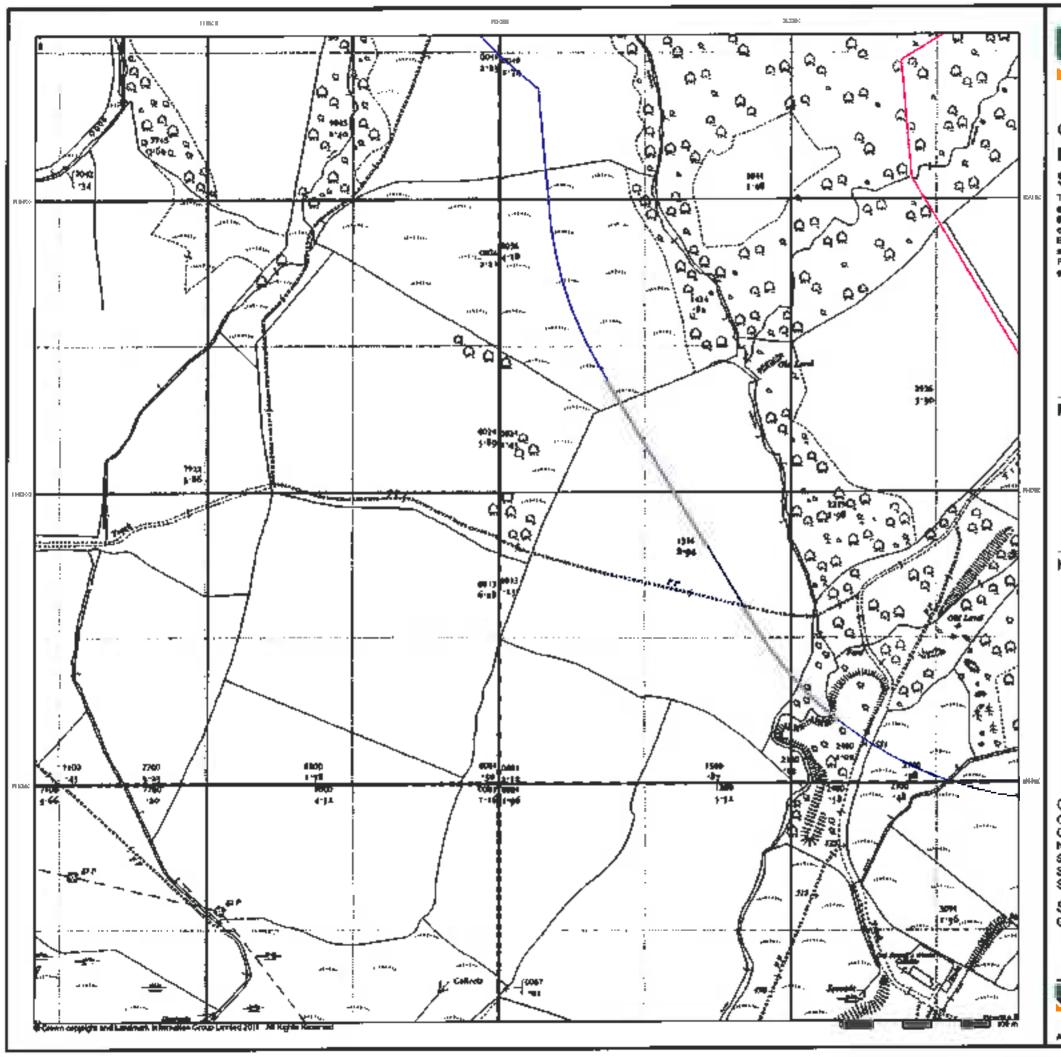
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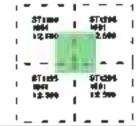


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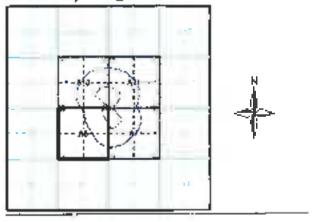
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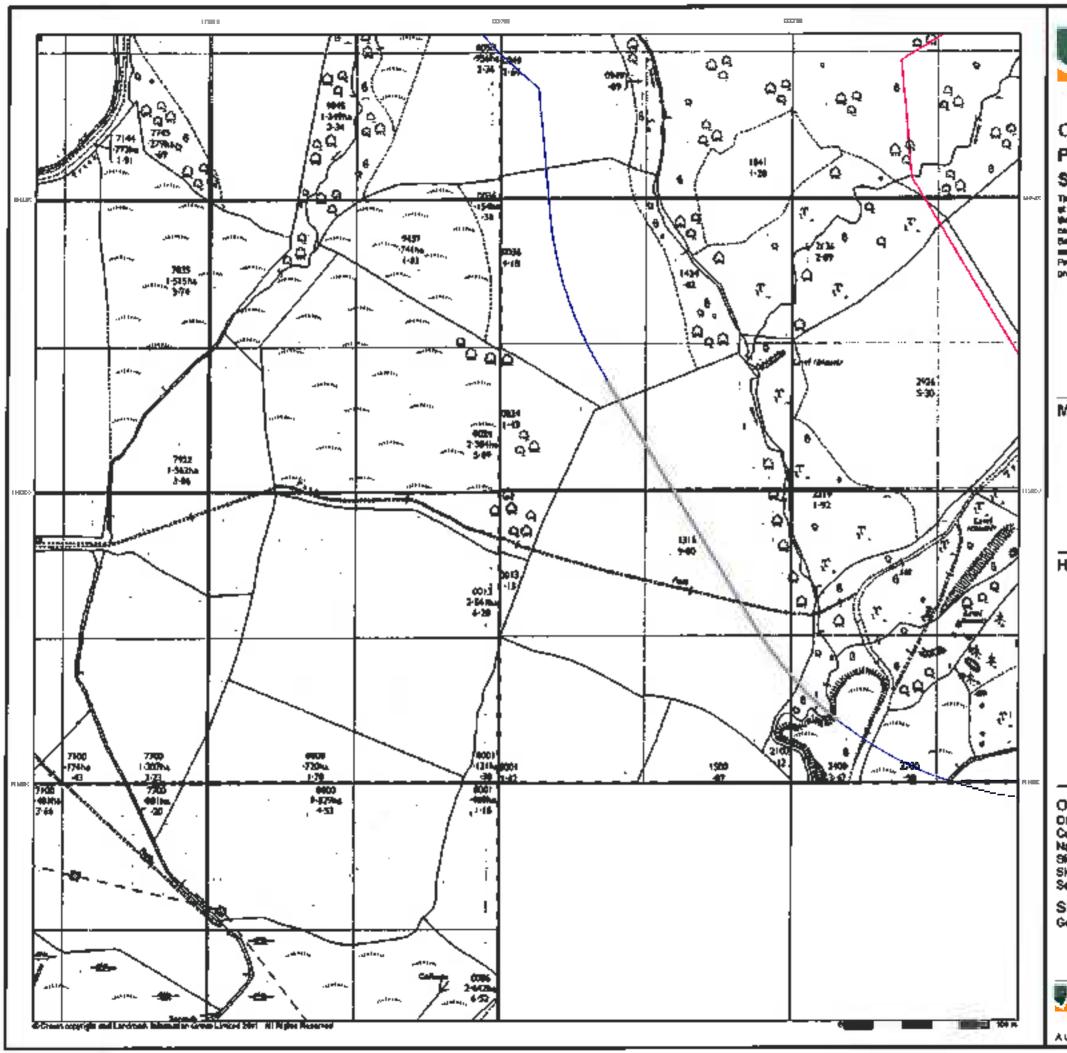
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a Landmert Information Comp Service 142.6 16-Sep-2011 Page 5 of 14



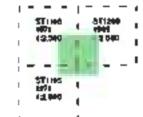


Ordnance Survey Plan Published 1969 - 1971

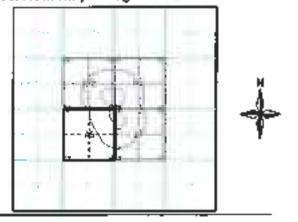
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England. Water and Scotland in the 1840's. In 1894 the 12,500 scale was recepted for mapping urban areas end by 1800 it covered the whole of what were continued to be the cultivated path of Greek Salain. The published date gives before to often every years facer than the serviced date. Solare 1636, all OS wasps were beend on the Cookini Projection, with independent surveys of a single county or group of counties, giving size to significant independent by our projection.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

Order Number:	36063971_1_1
Customer Ref:	Bryn Q
National Grid Reference	c 312360, 196540
Slice:	A
Site Area (Ha)	10.07
Search Buffer (m):	250

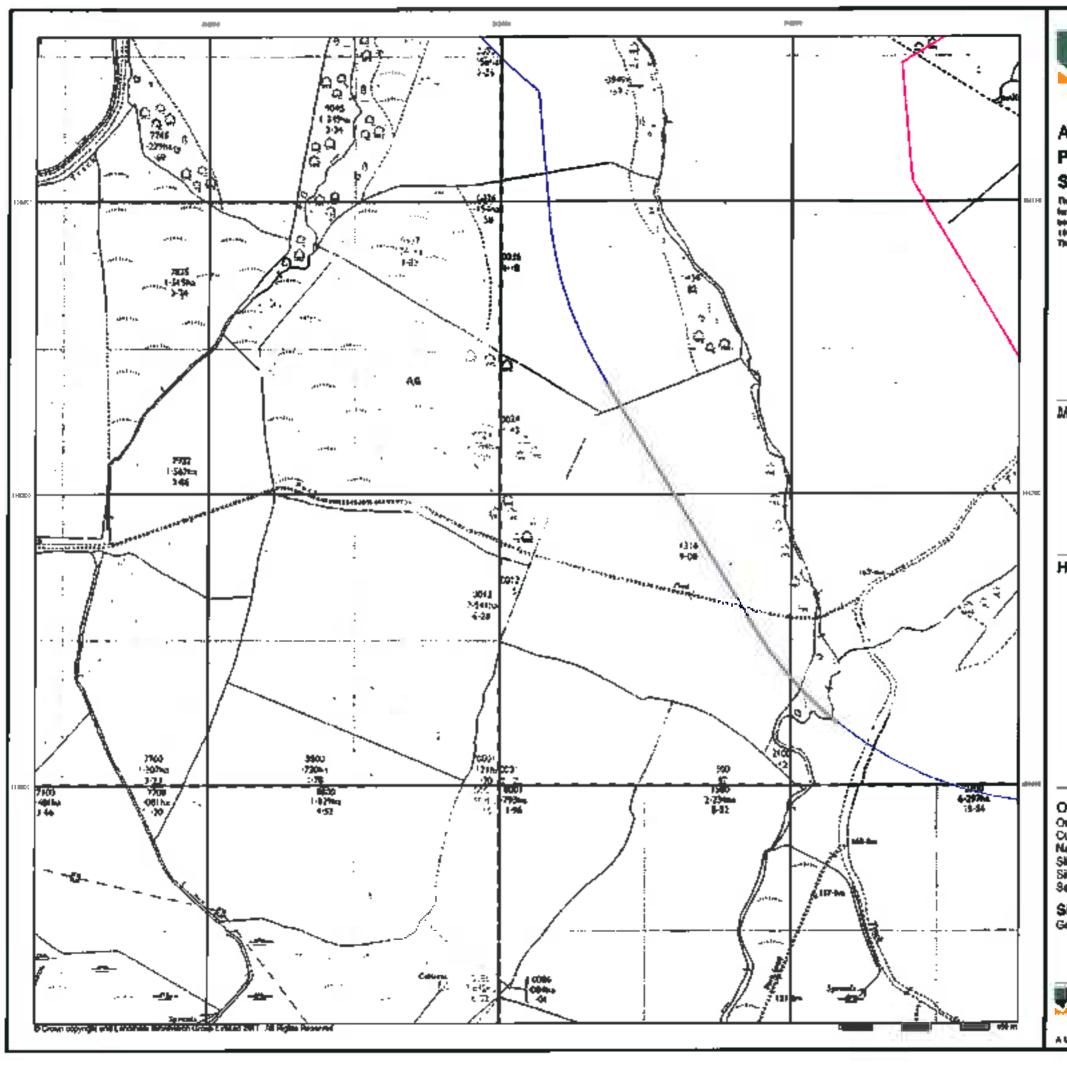
Site Details

Gelligserwellt Uchal Farm, Gelligser, Hengood, CF82 8FY



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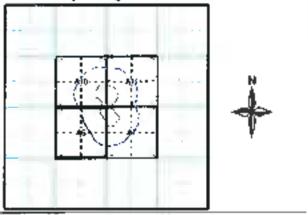
Additional SIMs Published 1977 - 1990 Source map scale - 1:2,500

The Sale cards (Crimbanes Servey's "Survey of integraption on Mexicities") are further, when exitions of mapping which were produced and published in technique the main additions in an arms and updated. They caus form 1947 to 1944, and congile despited lythometics, on buildings, reads and land-use. These maps were produced in both 1;2,500 and 1 1,250 scales.

Map Name(s) and Date(s)

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Historical Map - Segment A6



Order Details

Order Number: 36083971_1_1
Customer Ref: Bryn Q
National Grid Reference: 312380, 198540
Sice: A
Site Area (Ha): 10.87
Search Buffer (m): 250

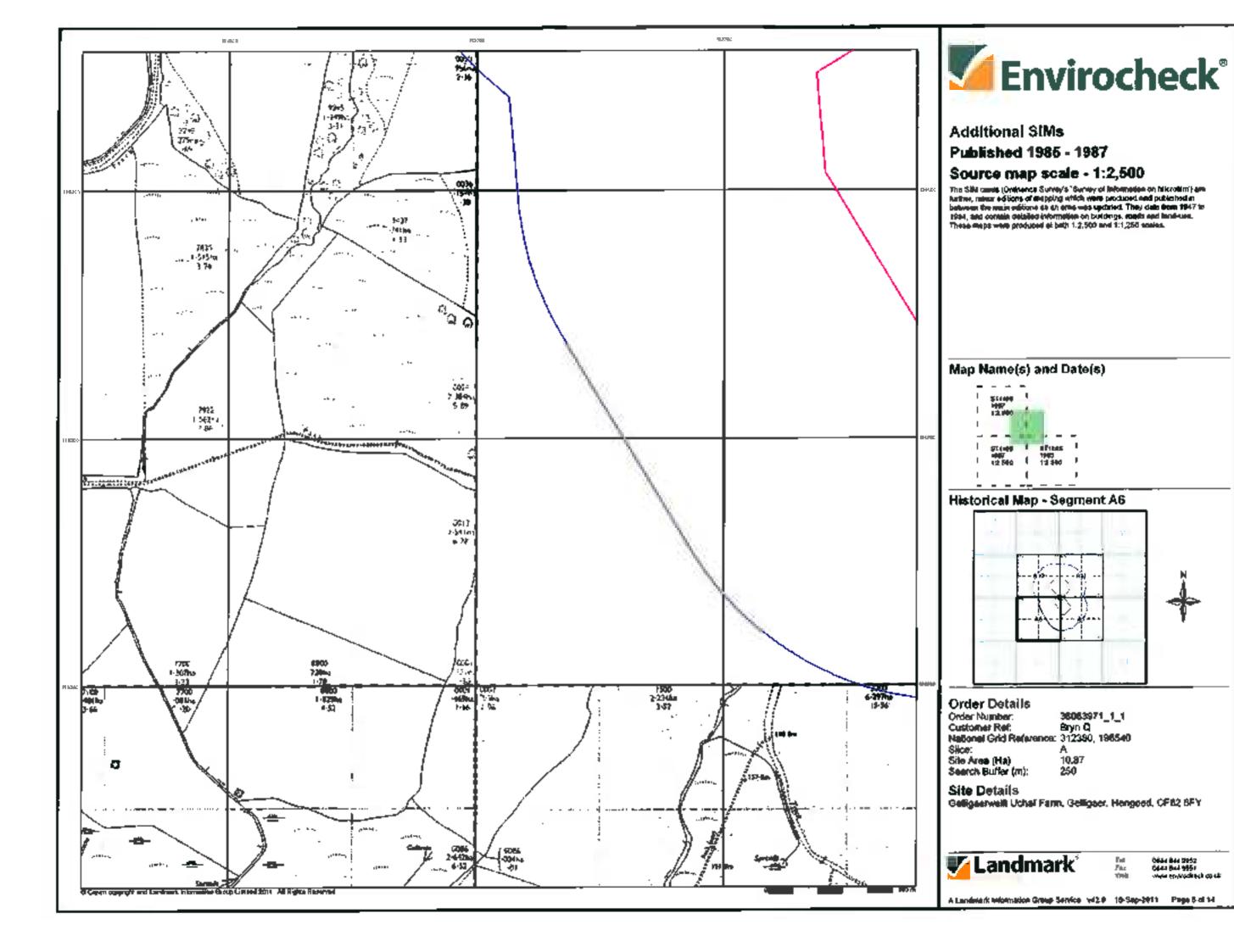
Site Details

Gelfigeerwell Uchaf Farm, Gelfigeer, Hangood, CF52 BFY

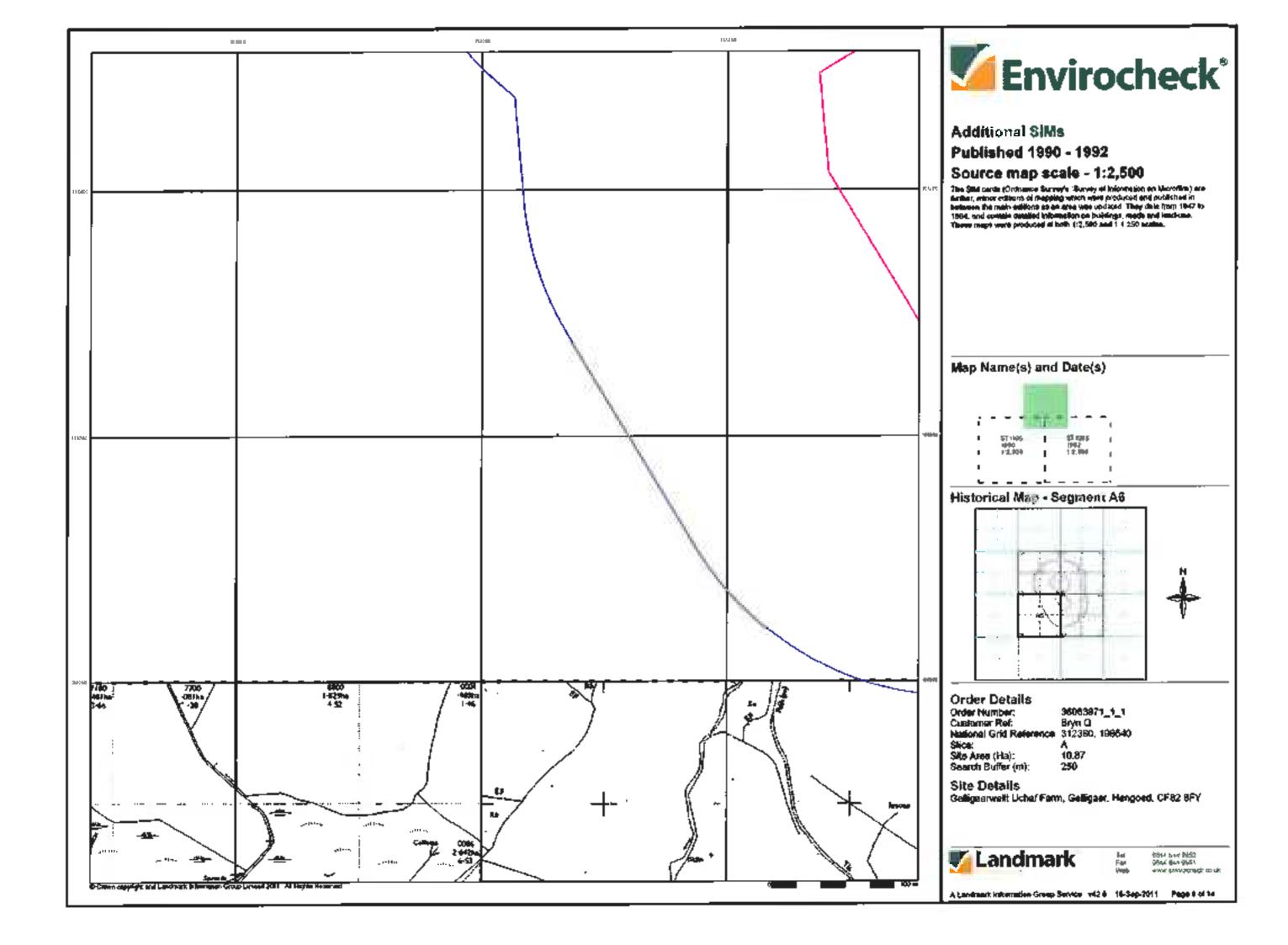


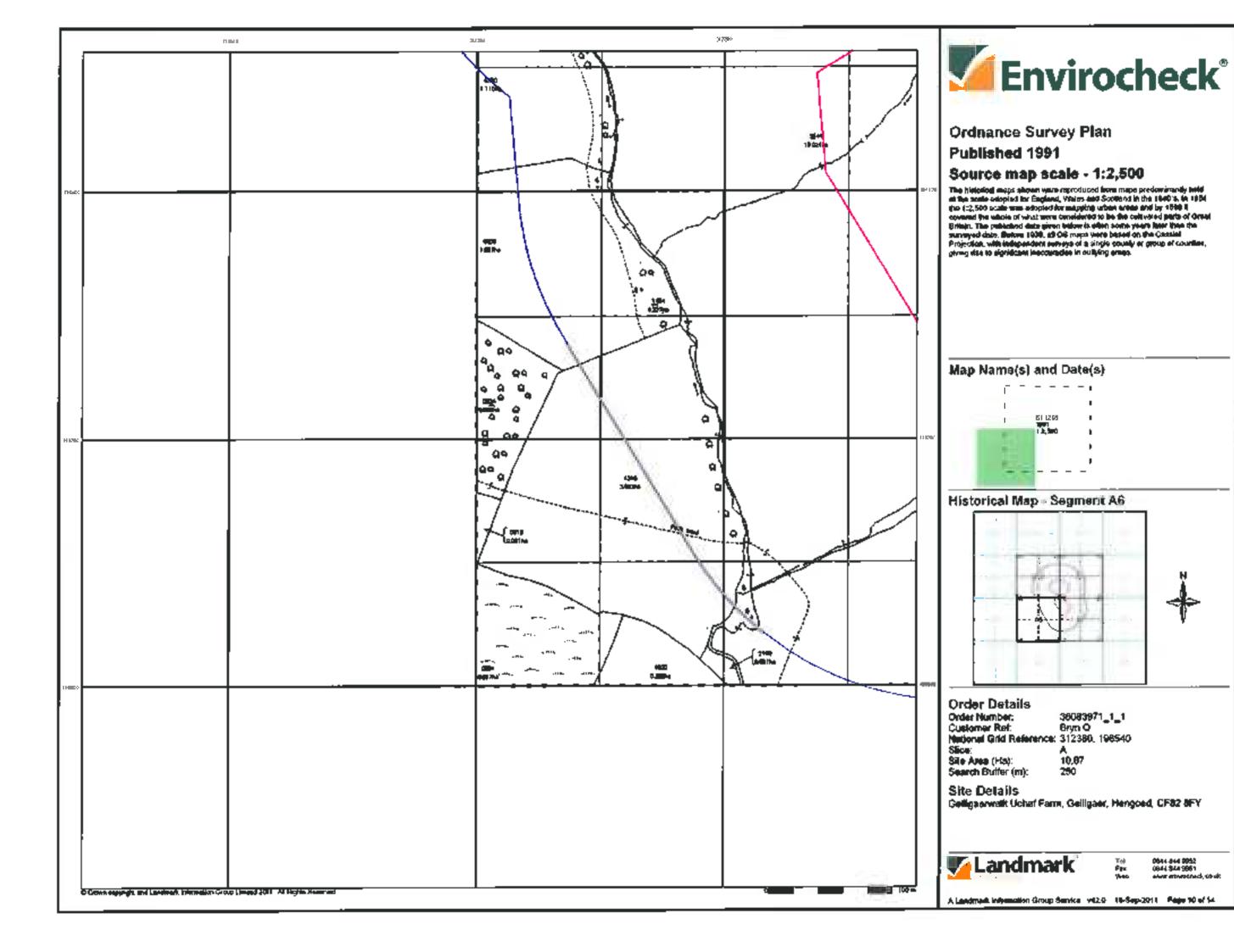
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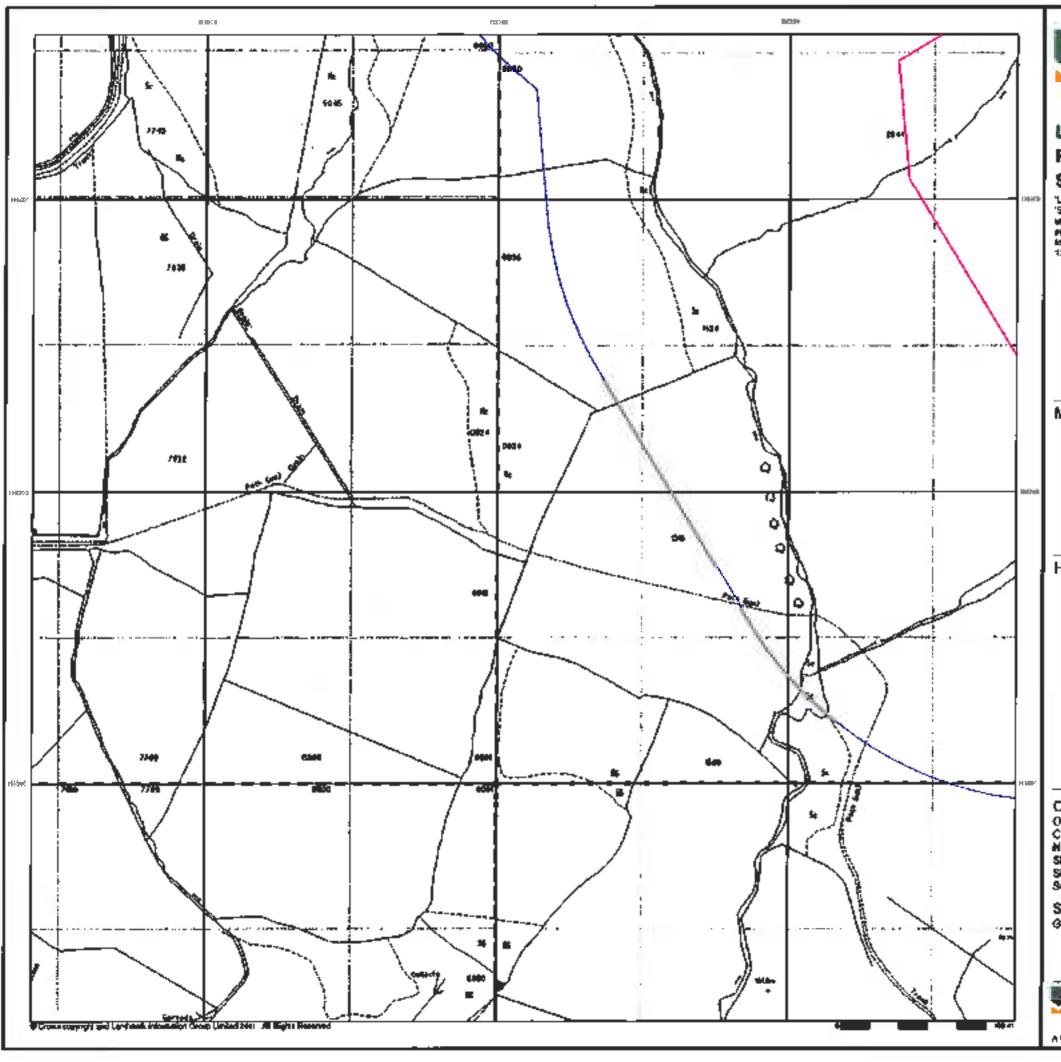
A Landmark Information Group Service 142.0 19-Sep-2011 Page 7 of 14



Öğün ülde 2052 Gazı Bad 9551 Waya Çirliyedi beli çiyali









Large-Scale National Grid Data Published 1993

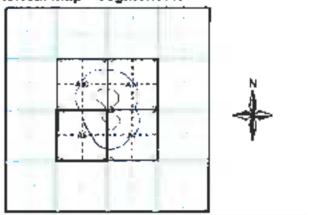
Source map scale - 1:2,500

Large Scale Metional Crid Crim' supersaded Stal cards (Detrunce Survey's Survey of Imparging on Massalins) in 1992, and continued to be preduced uptil 1999. These region was the low-numers of digital mapping and so growing distinct information on increase and reads, but bond to show less topographic features and as regelation. These range were produced at Beth 12,500 and 1:1,250 scales.

Map Name(s) and Date(s)

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Historical Map - Segment A6



Order Details

Order Number: 36083971_1_1
Customer Ref: Bryn Q
Mational Grid Reference: 312380, 196540
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Site Area (Ha): 10.67
Search Buffer (m): 250

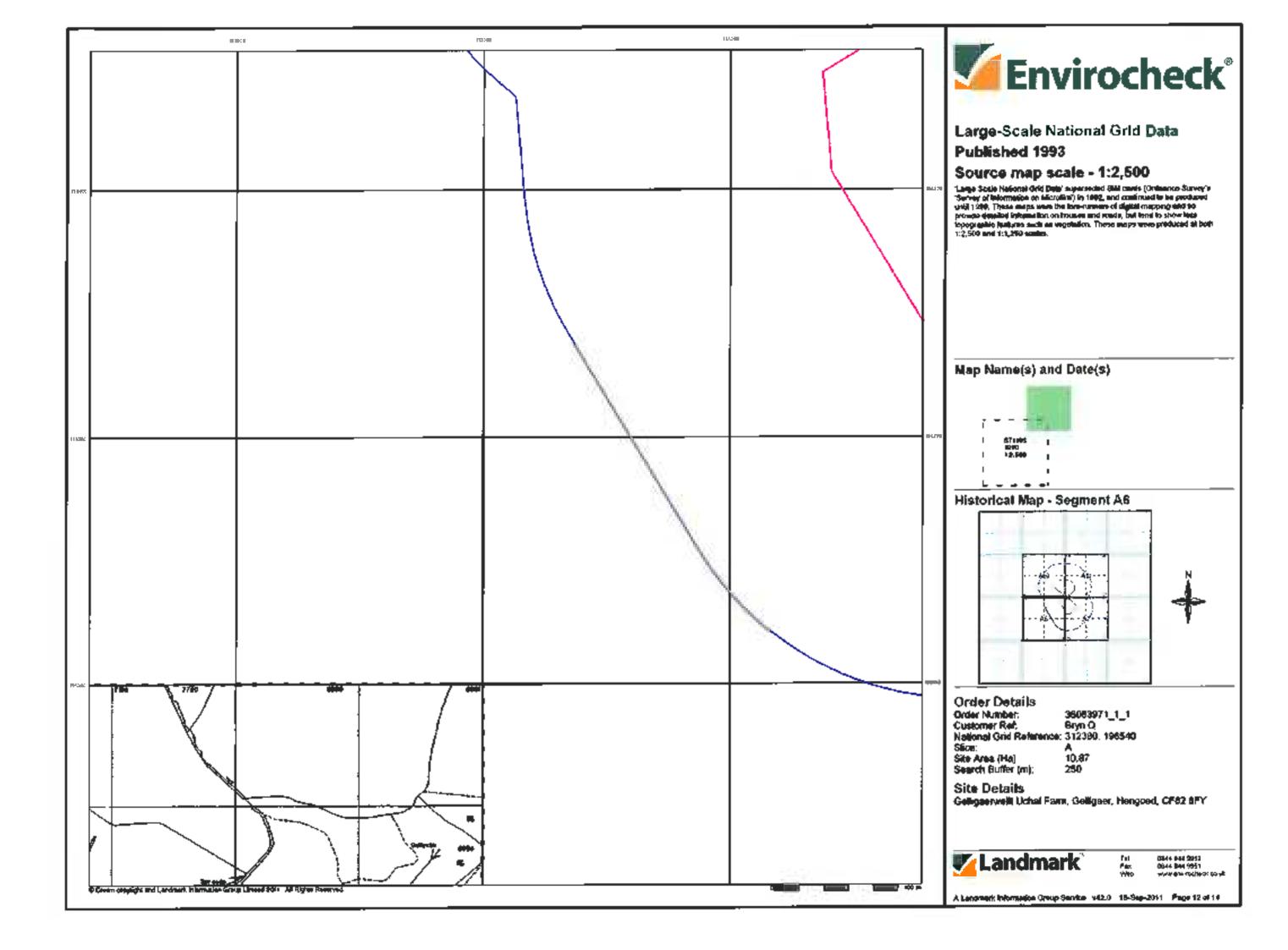
Site Details

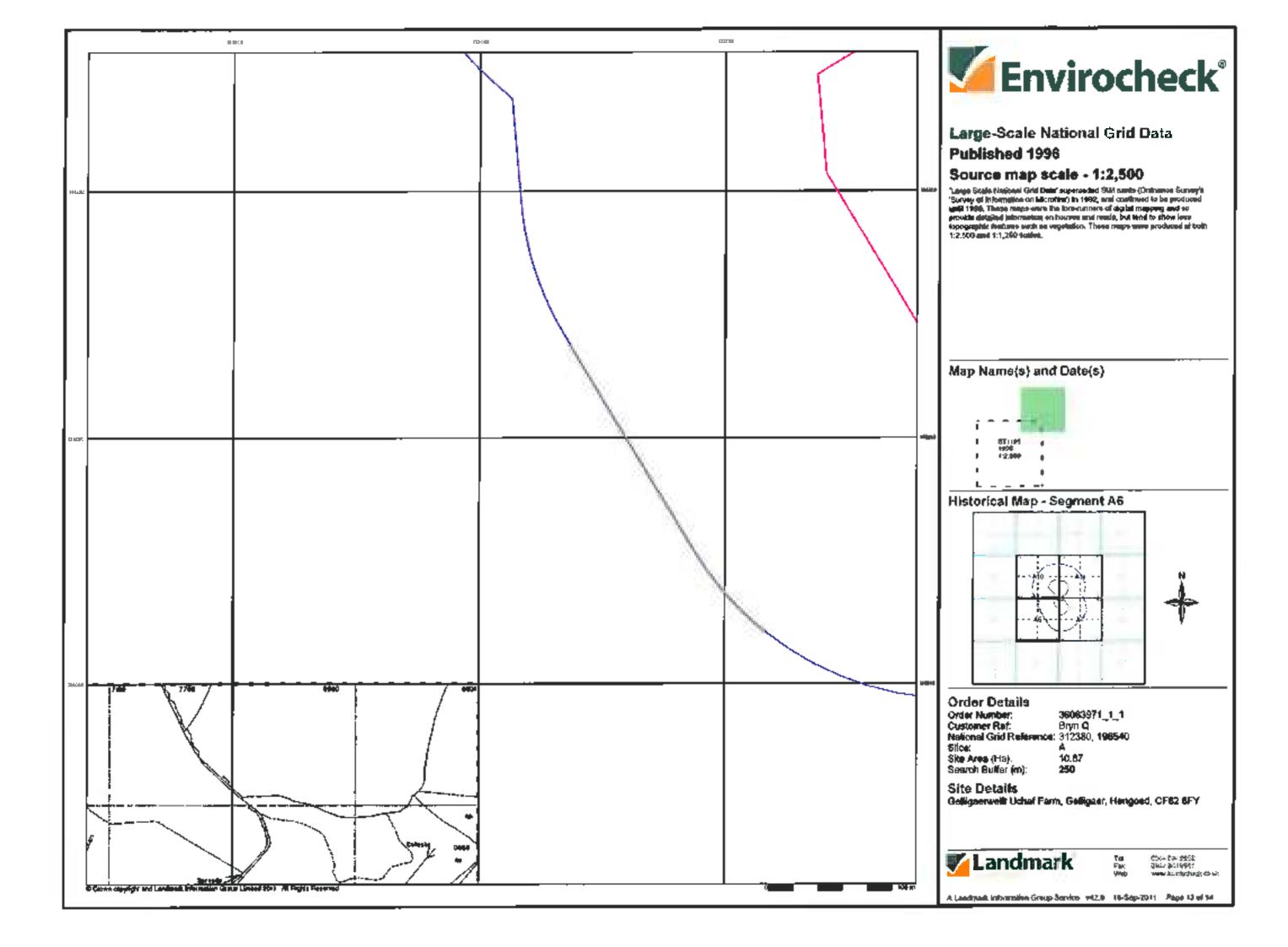
Geligaerwell Uchaf Farm, Gelligaer, Hengoed, CF82 6FY

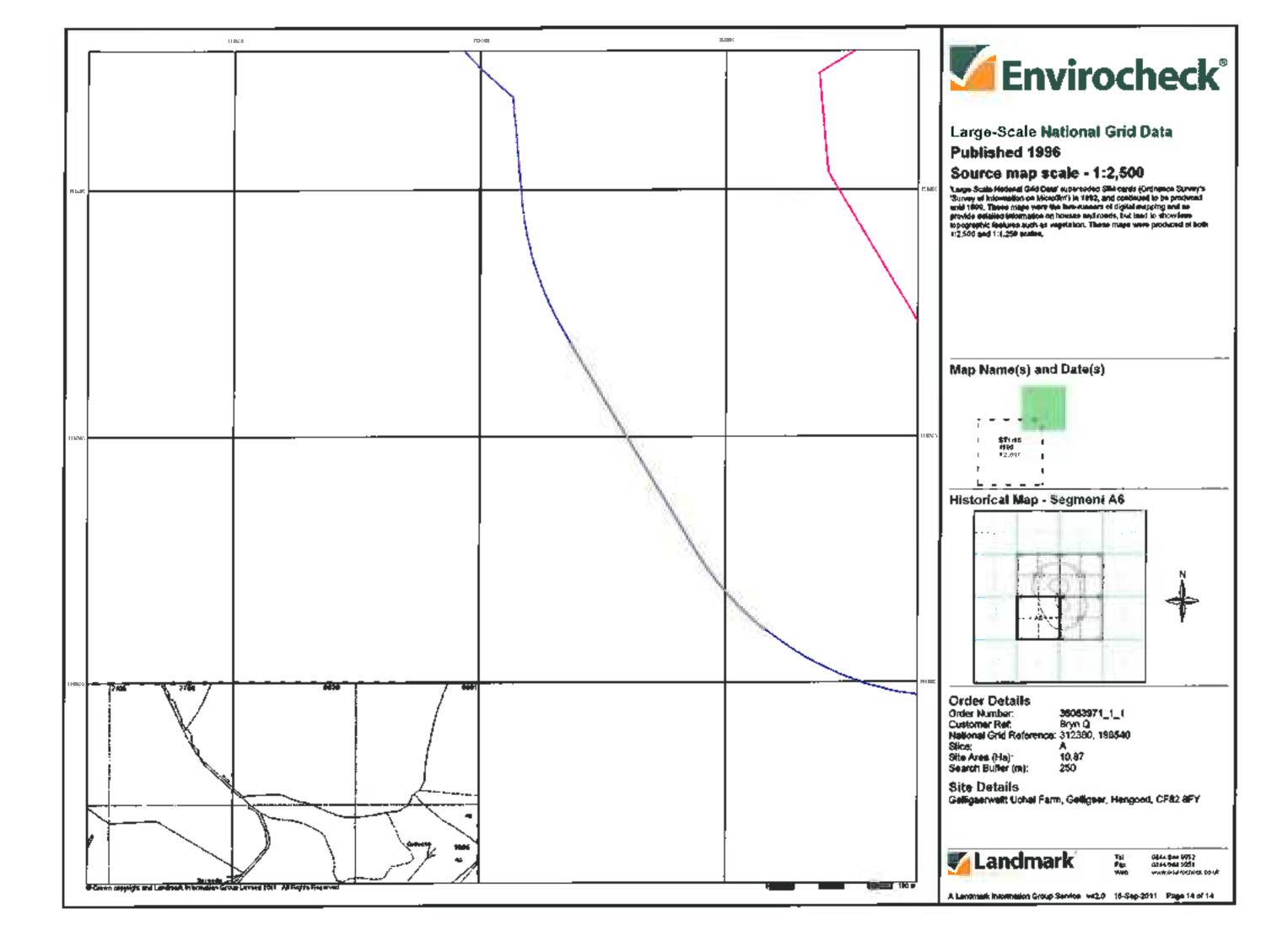


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A Landmert Information Group Service v42.0 18-Sep-2011 Page (1 of 14

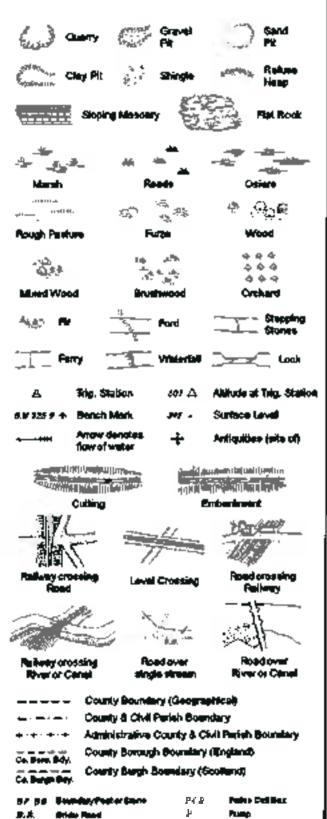






Historical Mapping Legends

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



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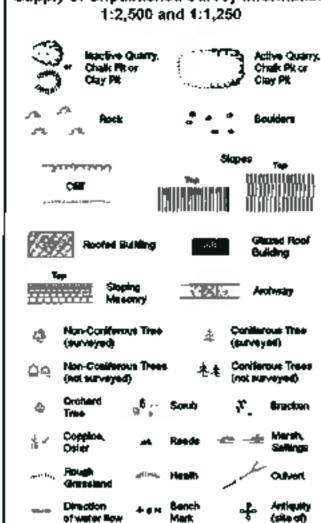
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Ordnance Survey Plan, Additional SIMs and Large-Scale National Grid Data 1:2,500 and Supply of Unpublished Survey Information



Geotricity Transmission Line

	County Boundary (Geographical)
· — - — -	County & Civil Parish Boundary
	Civil Parish Boundary
· -	Admin. County or County Sor. Boundary
L W Boby	London Bosough Boundary
**	Symbol marking point where boundary member changes

B01	Ben/110000	P	Pilar, Pointer Port
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	Brooks Aller or Foot	30,0 04	STORES BOD OF BRIDGE
FAP	Fire About Piller	W. O.	Man på Pogå or Light
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4	Cubbs Part	Th.	Tank or Brock
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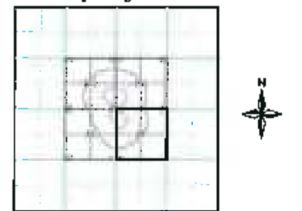
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Historical Mapping & Photography included:

Mapping Type	ઉદ્યાદ	Date	Pe
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Nonrade Institute	1:2,500	1079] 7
Glampegnruhlen	1:2,500	1900 - 1901	4
Gramorgán áldro	1:2,500	1915-1920	1
Ordnance Survey Plen	1:2,800	1961	1
Additional STO	1:3,800	1941 - 1888	17
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Additional Silin	(12,000	1968	T
Additional title	1:2,000	1001 - 1992	10
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Large-Sgale Historial Orbit Dain	1:2,599	tees	1:

Historical Map - Segment A7



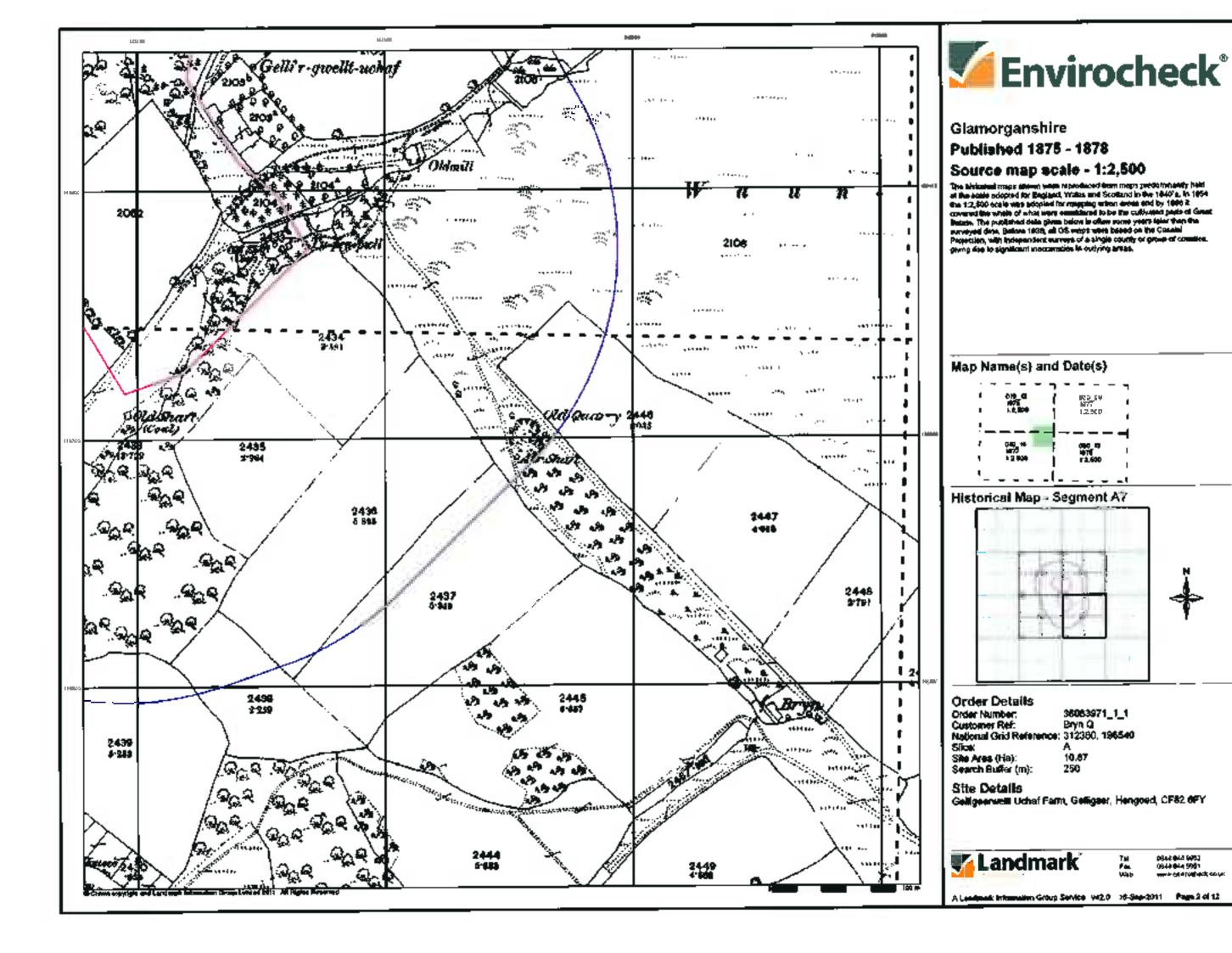
Order Details Order Number: 36063971_1_1 Customer Ref: Bryn Q National Grid Reference: 312360, 196540 Site Area (Ha) 10.87 Search Buffer (m): 250

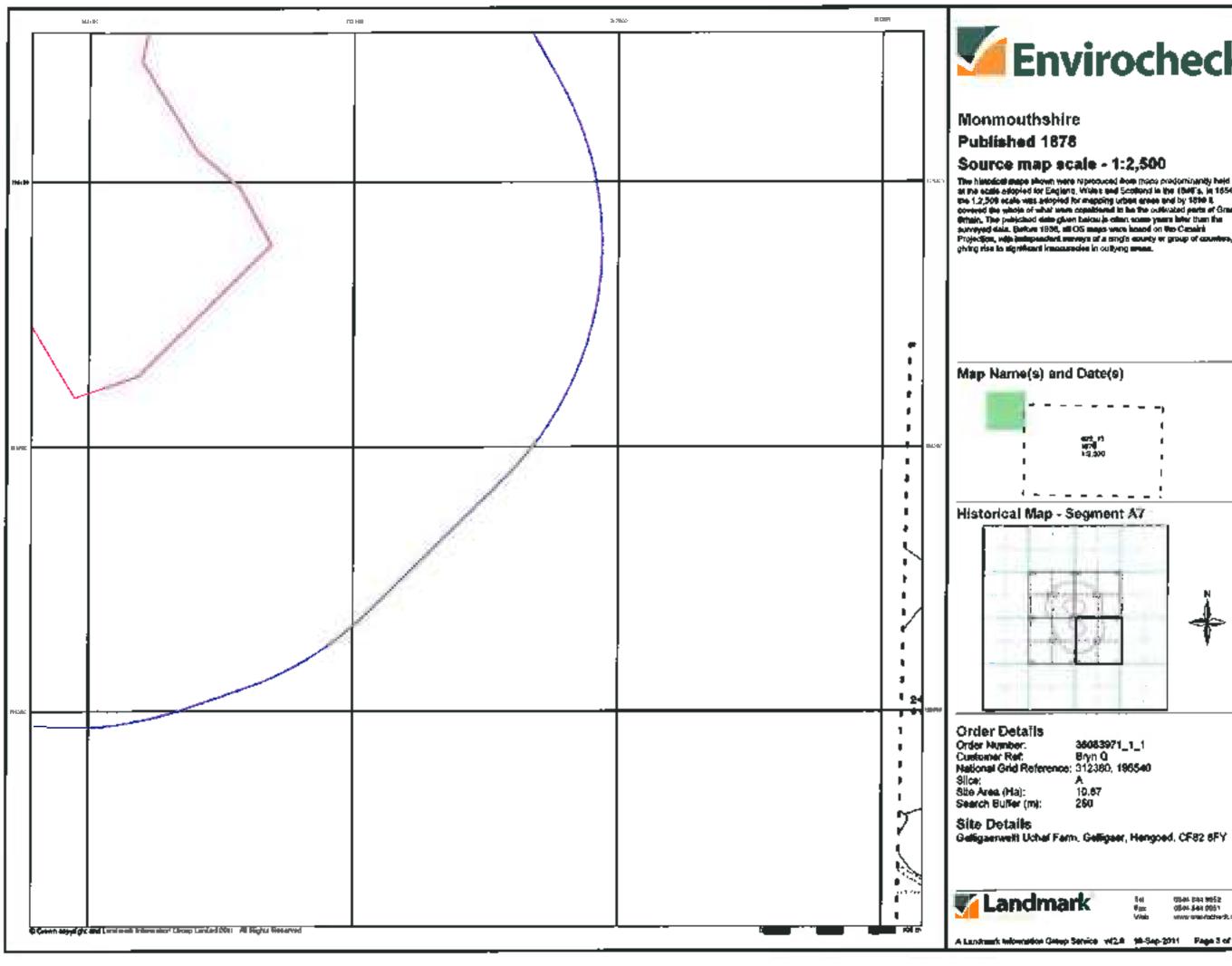
Site Details

Geltigserweilt Uchst Farm, Geltigeer, Hengoed, CF82 8FY



0544 BM 8951



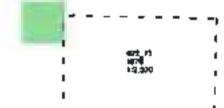




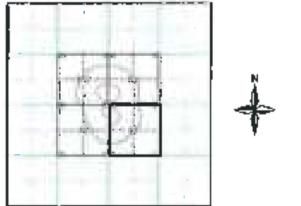
Source map scale - 1:2,500

The historical stage shown were reproduced from mace predominantly held at the coals adopted for England, Writes and Scotland in the (845's, in 1654 the 1.2,509 scale was adopted for mapping urban areas and by 1816 it. covered the whole of what were consistented to be the outlevated parts of Grant String. The published date given below to other some years later than the surroyed date. Before 1856, all OS maps were housed on the Casain's Projection, with instrumental surveys of a single county or group of countries, giving rise to algorithmat knownedge in outlying stream.

Map Name(s) and Date(s)



Historical Map - Segment A7

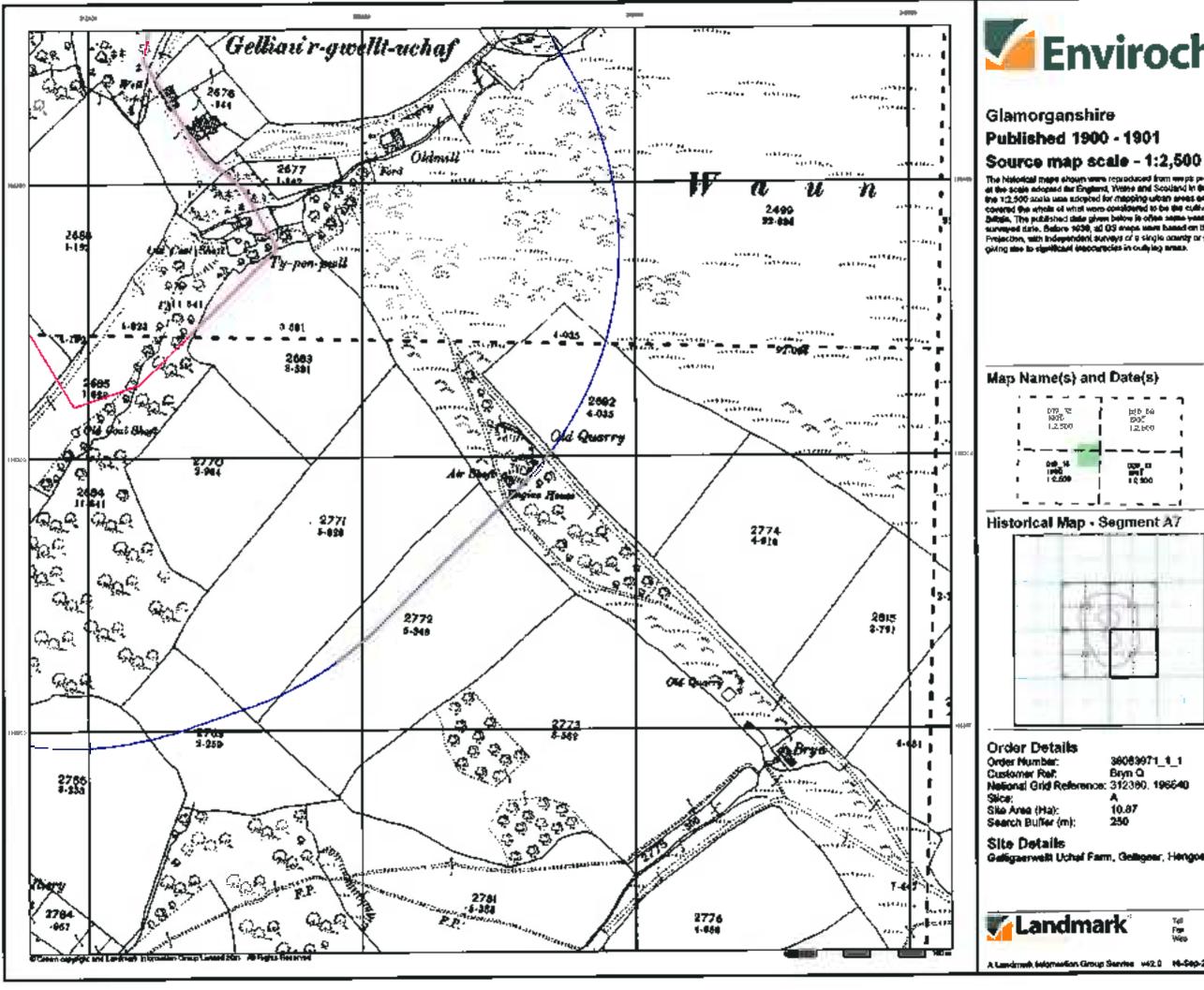


36083971_1_1 Customer Ref: Bryn Q National Grid Reference: 312380, 196540 10.67 260



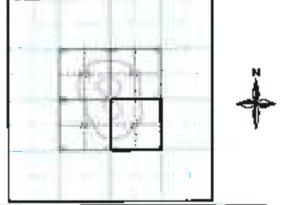
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A Landmark Information Group Service vil2.8 18-Sep-2011 Page 3 of 12





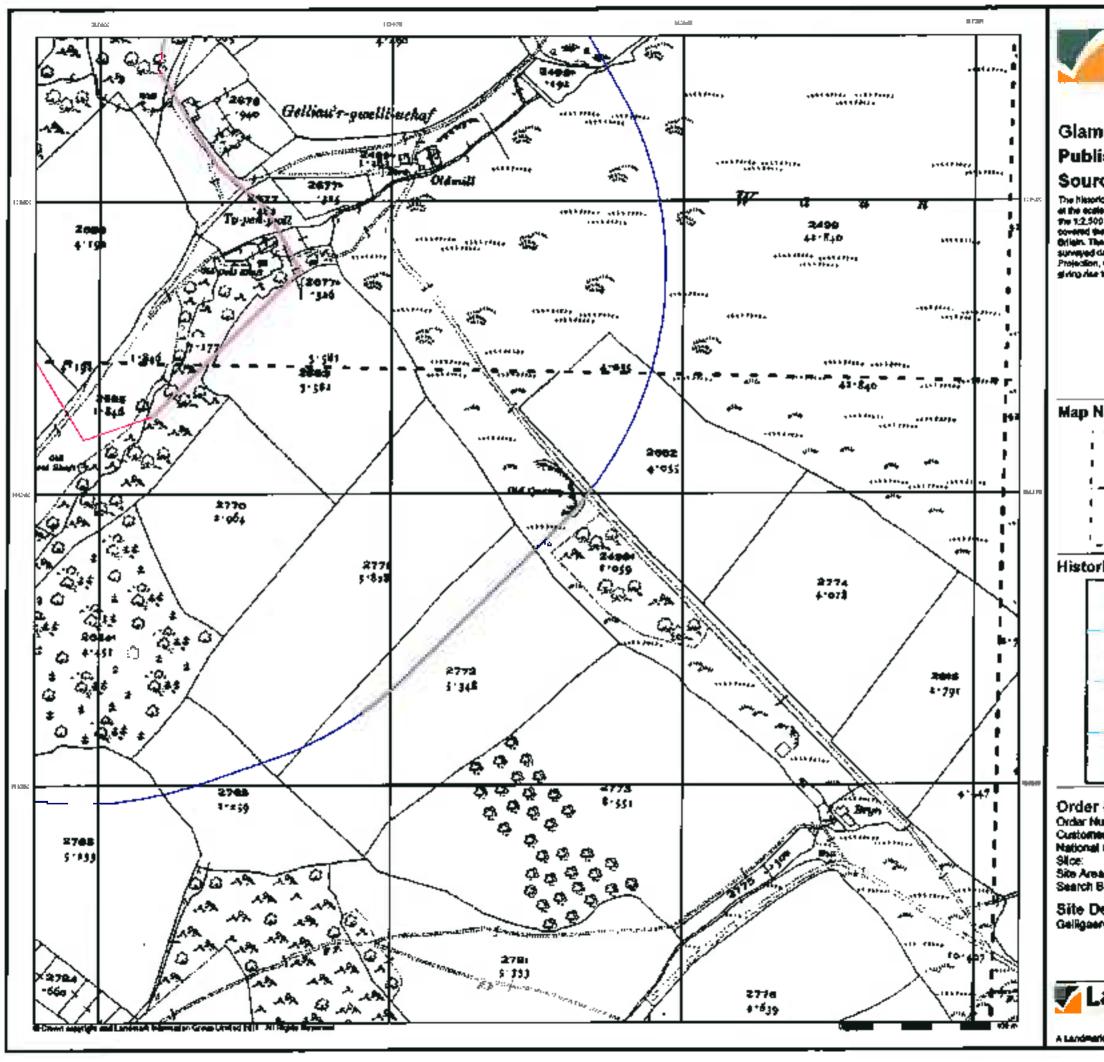
The historical page shows were reproduced from weeps preformentally halfs at the scale adopted for England, Notice and Scotland in the 1960's. In 1954 the 12,500 scale was autopted for mapping when swees and to 1986 is covered the whole were considered to be the cultivated parts of Grant Bullet, The published date given below in often same years take then the surveyed date. Before 1939, at 0.9 sweet were based on the Canada Projection, with independent surveyer of a single country or group of countries, giving use to significant insecuracies in outlying areas.



Galigaerwellt Uchail Farm, Gelligeer, Hengood, CF62 6FY

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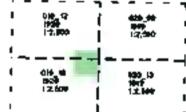


Glamorganshire Published 1919 - 1920

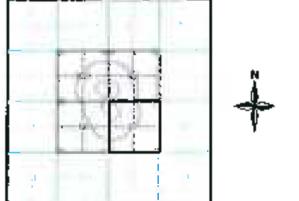
Source map scale - 1:2,500

The historical maps shows were reproduced from maps predominately hald at the casts adopted for England, Virties and Scotland in the 1945's. In 1964 the 12.500 scale was adopted for mapping when areas and by 1960's toward the whole of what were consistented to be the cultivated parts of Greek Origin. The published delp given below is allow some years later than the surveyed date. Setters 1968, all OS maps were based on the Careful Projection, with independent earners of a projection, or group of countries, giving due to alphabattal intercarables in outlying detail.

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Ordar Number:	36083971_1_1
Customer Ref:	Bryn O
National Grid Reference:	312380, 196540
Slice:	A
Site Area (Ha):	10.87
Search Buffer (m):	250

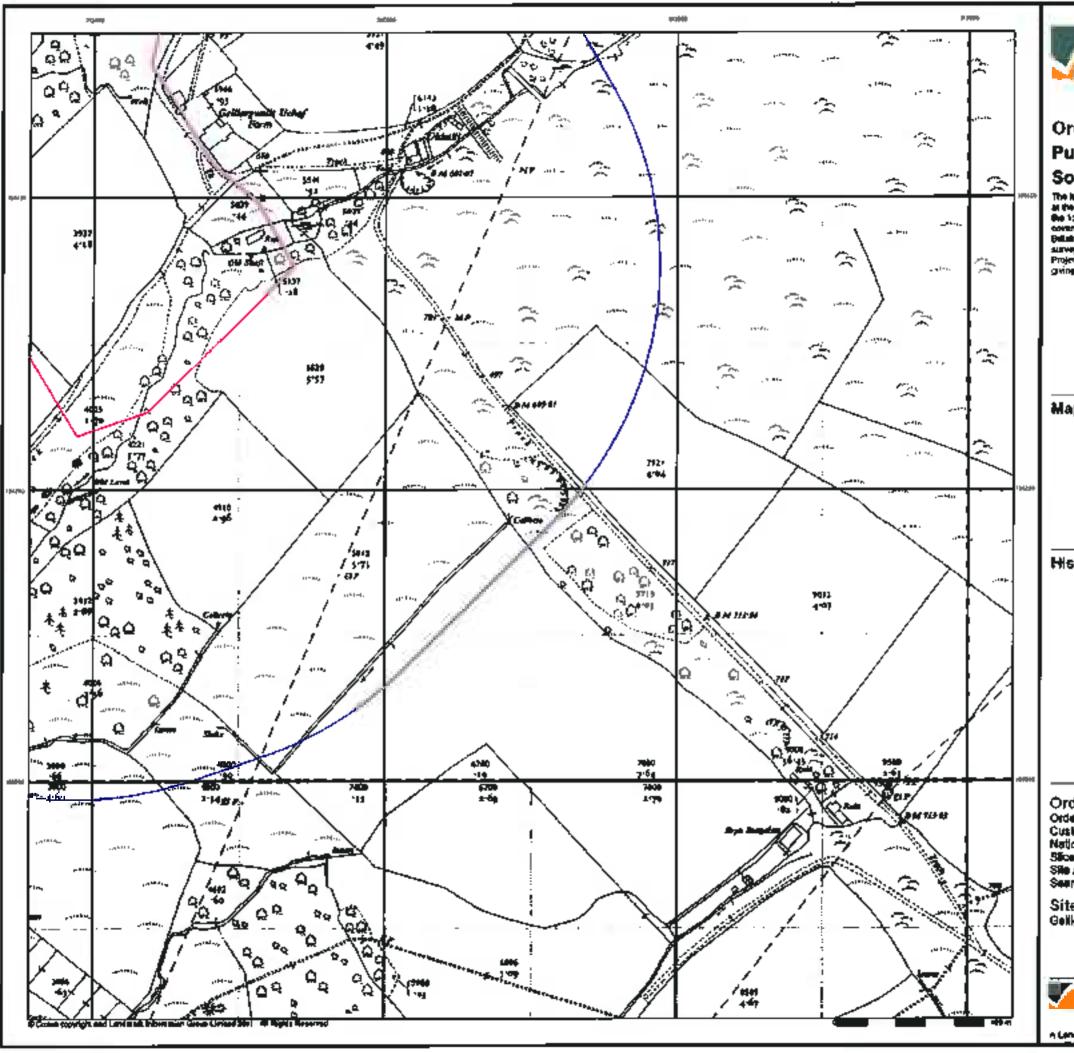
Site Details

Gelligaerwellt Uchaf Farm, Gelligaer, Hengoed, CF82 BFY



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A Landmark seformation Group Service 142.9 18-Sep-2011 Page 6 of 12





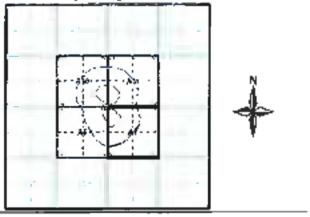
Source map scale - 1:2,500

The historical ryage shown were reproduced from maps proformately held at the case odopsed for England, Wales and Scotland in the 1940's. In 1994 the 12,500 scale was adopted for mapping when were and by 1996 it covered the whole of what were constituted to be the cuttrated parts of Greek Bellin. The published date given below to often some great felter than the surveyed date. Before 1990, all OS maps were haved on the County for proop of counties, giving rise to significant expectation is outlying shown.

Map Name(s) and Date(s)

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Historical Map - Segment A7



Order Details

Order Number: 38083971_1_1
Customer Ref: Bryn Q
Netjonal Grid Reference: 312380, 196540
Slice: A
Slice: A
Slice: Ha): 10,87
Search Buffer (m): 250

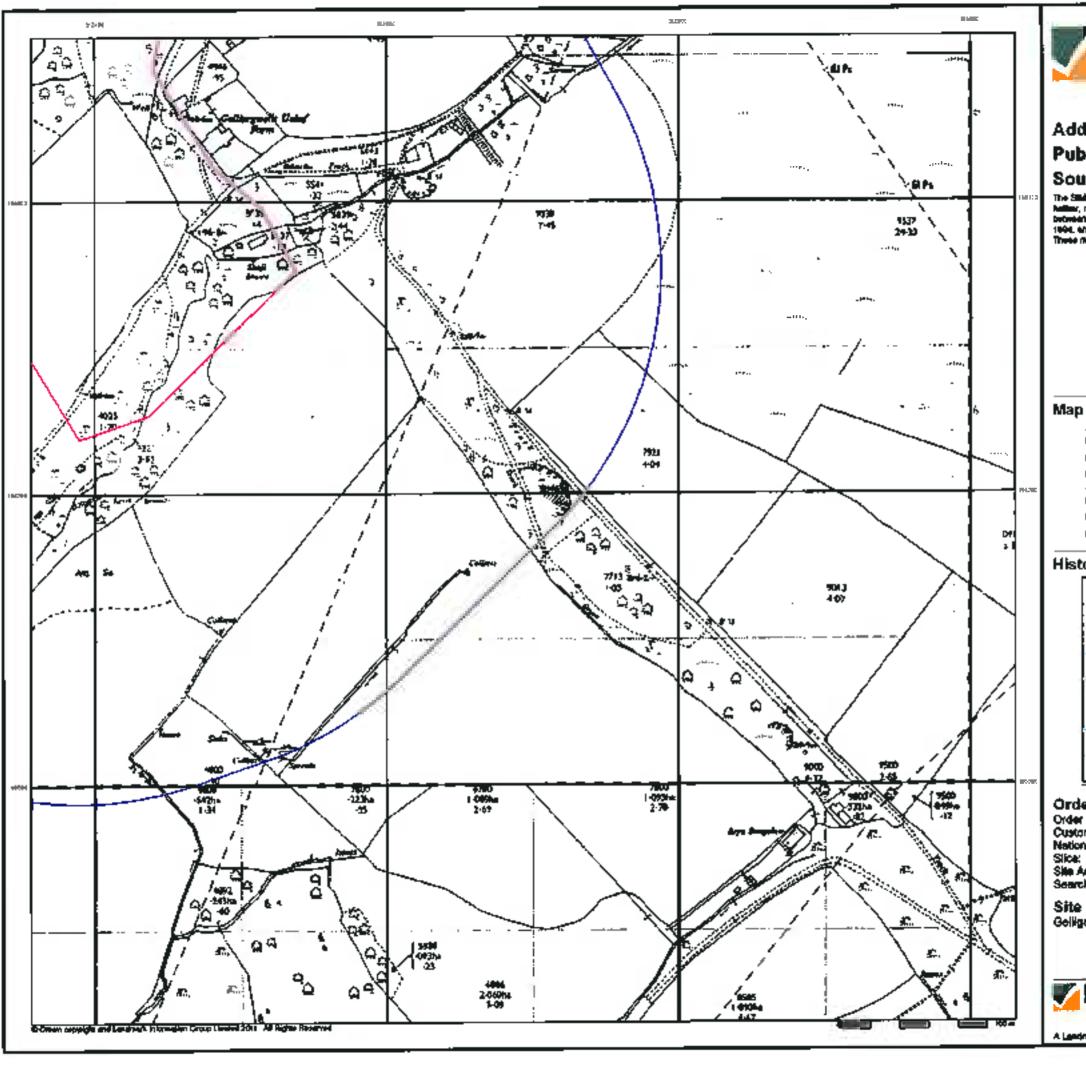
Site Details

Gelligeerwell Uchef Farm, Gelligaer, Hengoed, CF62 6FY



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n Landmark Information Group Service: 142.0 16-Sep-2011 Page 6 of 12





Additional SIMs Published 1961 - 1990

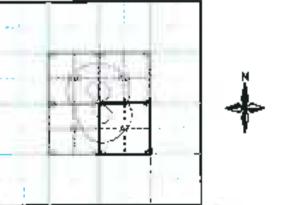
Source map scale - 1:2,500

The Statement (Ordinance Survey's Theory of Information on Microfier) are hallow, mirror editions of mapping which were produced and published in between the state editions so my one was updated. They date from 1947 to 1964, and contain detailed integration on buildings, mean one find-use These maps were produced at both 1:2,500 and 1:1.250 scales.

Map Name(s) and Date(s)

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Historical Map - Segment A7



Order Details

Order Number: 36063971_1_1
Customer Ref: Bryn Q
National Grid Reference: 312380, 195540
Silce: A
Site Area (Ha): 10.67
Search Buffer (m): 250

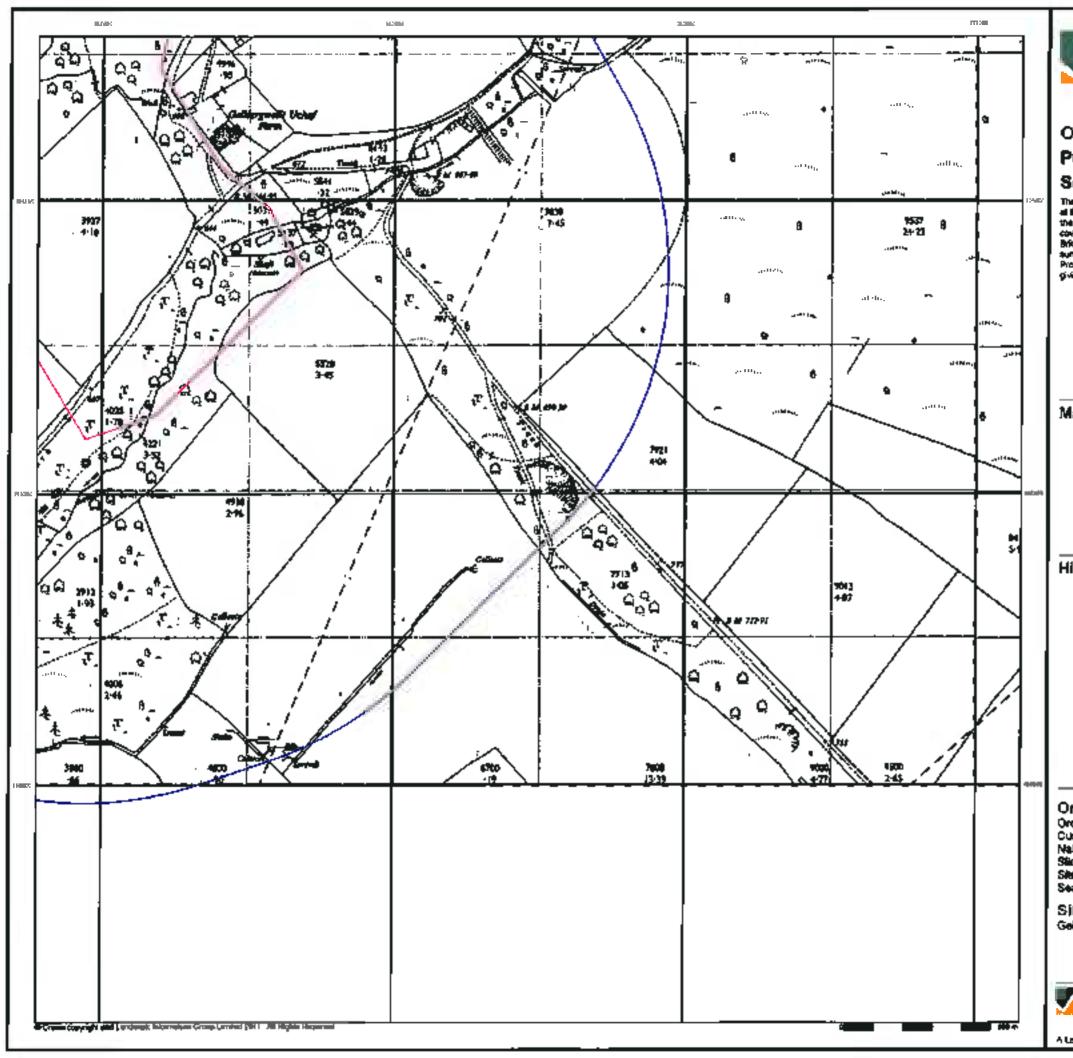
Site Details

Gelligaenwellt Uchaf Farm, Gelligaer, Hengood, CF82 BFY



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A Landmark Information Group Service v42.0 16-Sep-2011 Page 7 of 12

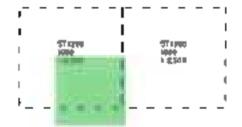




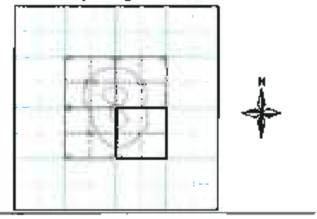
Source map scale - 1:2,500

The historical maps above were reproduced from maps predomenonily held at the scale oriopted for fingland, Wales and Scotland in the 1940's. In 1954 the 1.2,500 scale was adopted for mapping urban areas and by 1959 it covered the whole of what ware consistend to be the cultivaled parts of Crear British The published of what where below is often some years letter than the surveyed days, Serbre 1979, at OS creat ware beand on the Casalit Projection, with independent nurveys of a single country or group of counties, giving five to significant imposuractes in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Order Number: 36063971_1_1
Customer Ref: Bryn Q
National Grid Reference: 312380, 196540
Stice: A
Site Area (Ha): 10.87
Search Buffer (m) 250

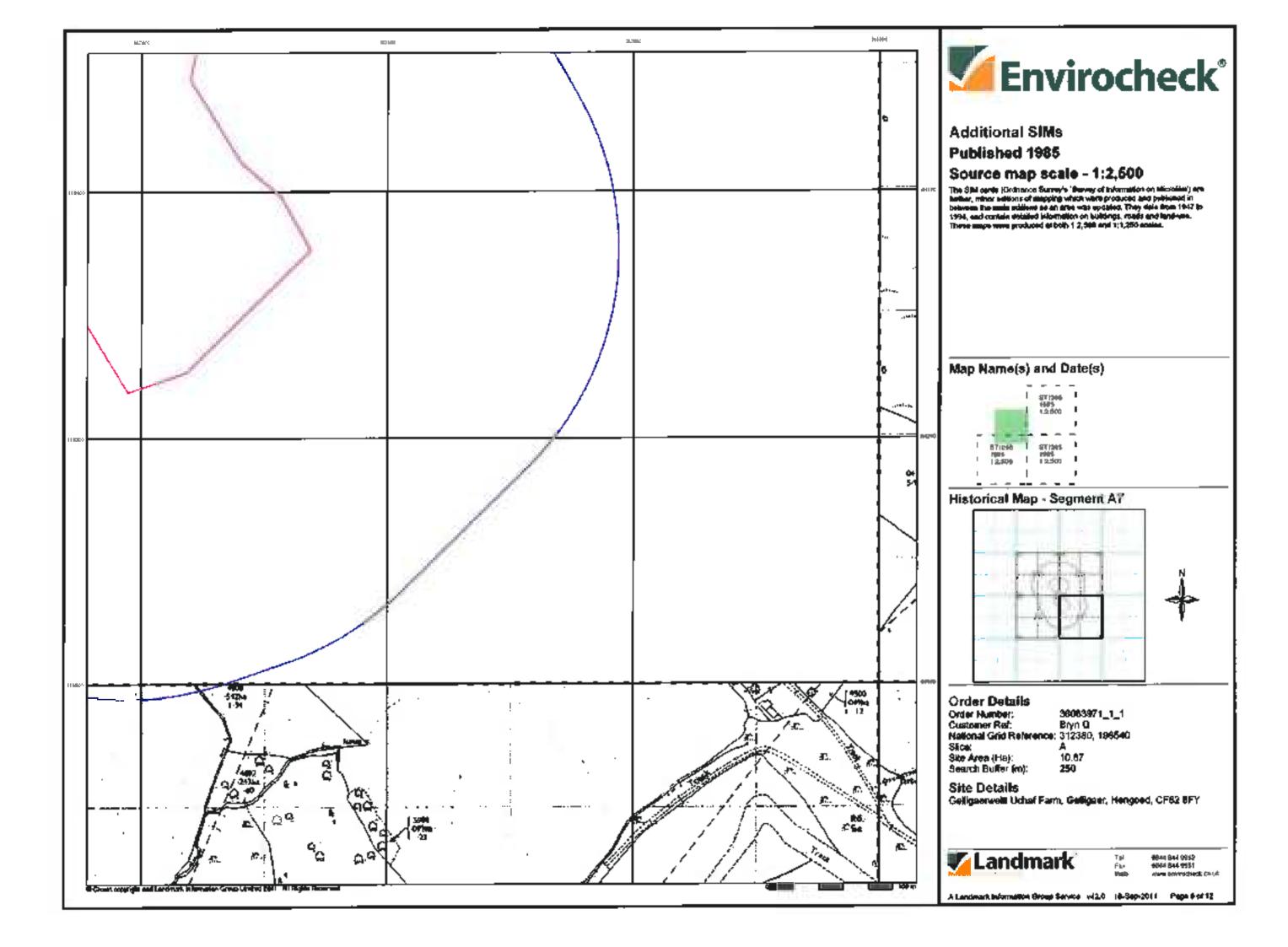
Site Details

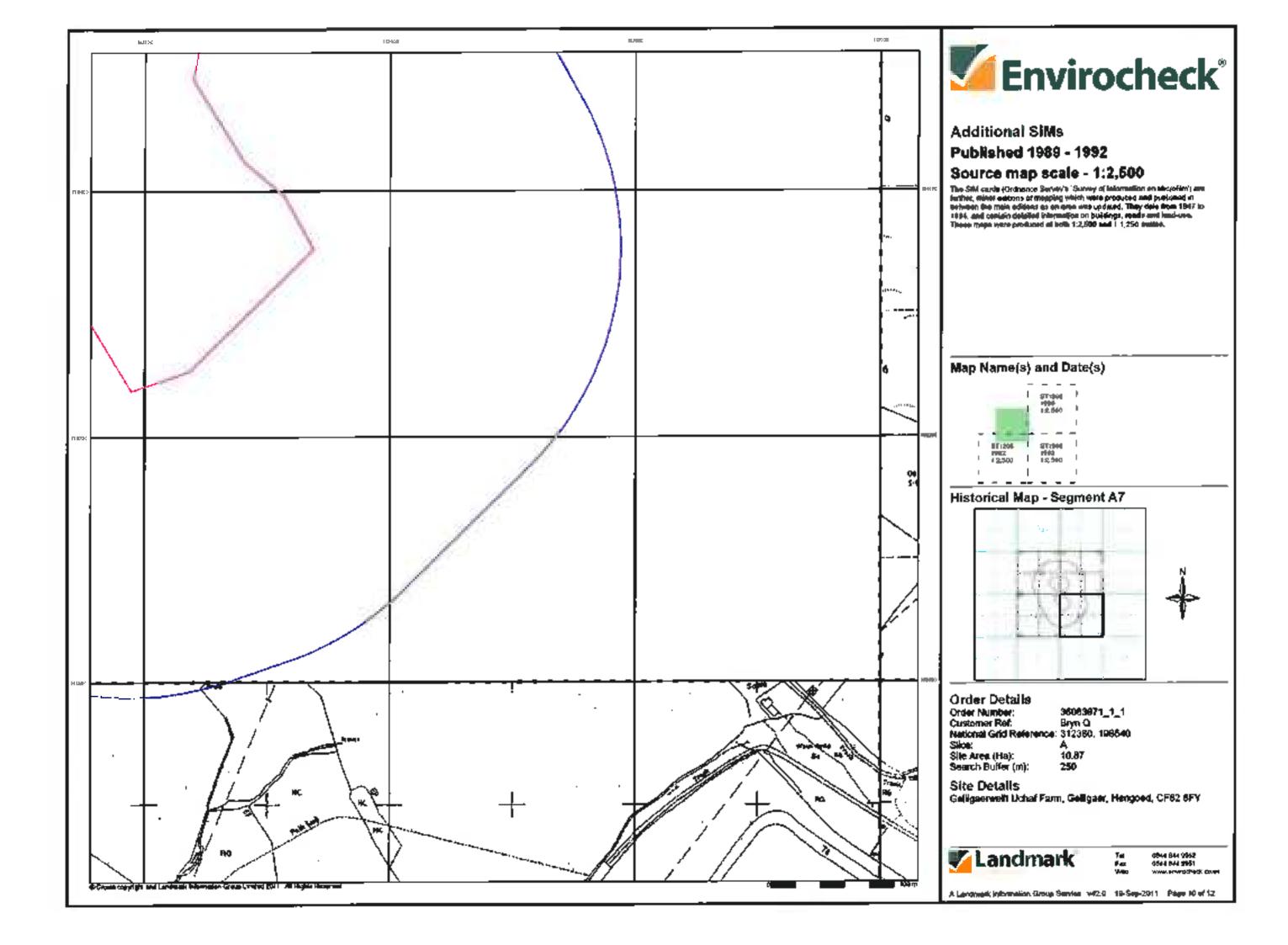
Gelligserwell Uchaf Farm, Gelligeer, Hengood, CF62 6FY

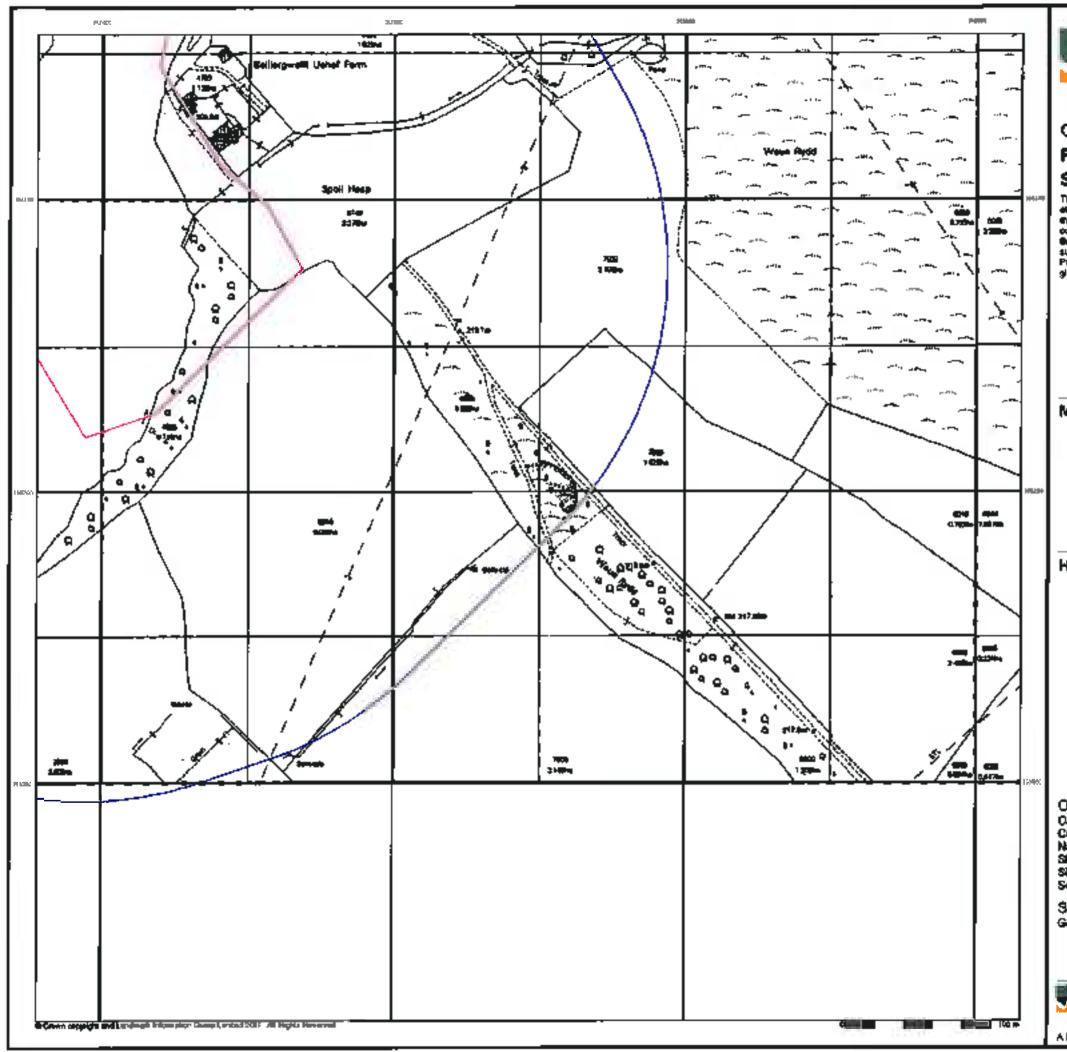


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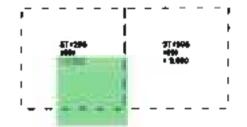




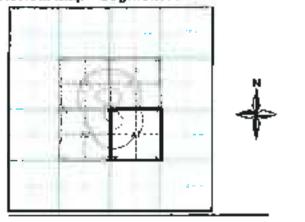
Source map scale - 1:2,500

The bistorical maps afrown were reproduced from maps predominantly held at the ecale adopted for finglence, virales and Scolend in the 1940's. In 1954 the 12.500 acids was adopted for mapping when erose and by 1999 4 covered the winds of many new considered to be the cultivated parts of Great Official. The puckshed date given below is often some years being then the surveyed date. Before 1938, all OS maps were hand on the Causini Projection, with independent parts of a angle county or group of sourcities, giving rise to significant insecuracies in outlying week.

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Order Number: 36063971_1_1 Customer Ref. Bryn Q National Grid Reference: 312360, 196640 Silce: 10.87

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

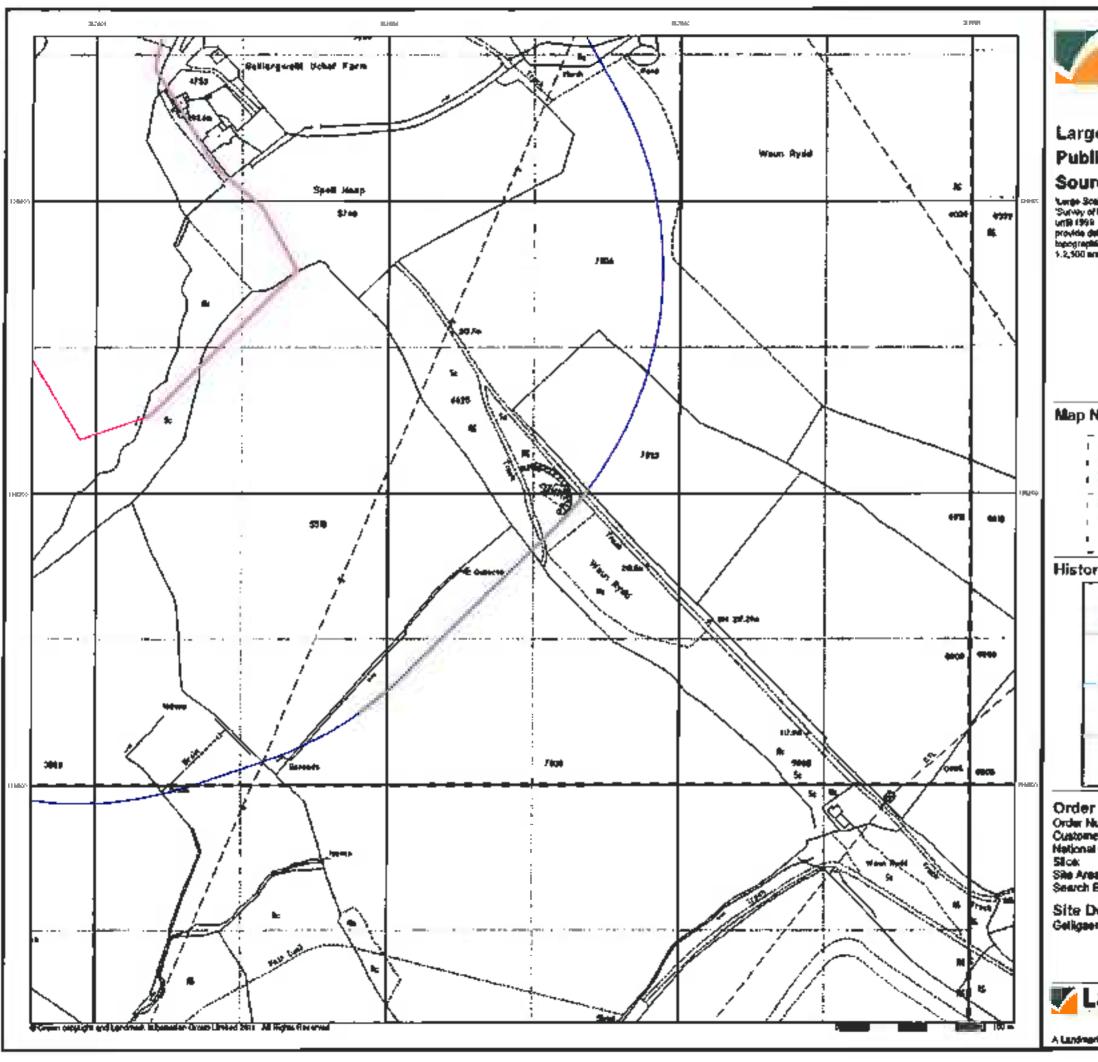
Site Details

Gelligserwellt Uchal Ferm, Gelligeer, Hengoed, CF82 BFY



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A Landman, Information Group Service, 142-0 18-Sep-2011 Page 11 of 12





Large-Scale National Grid Data Published 1993

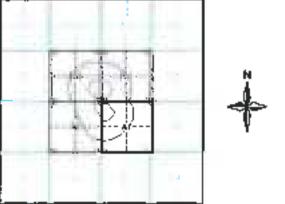
Source map scale - 1:2,500

Lurge Scale Helional Grid Data! superseded SRJ cards (Ordinarca Survey's Survey of leafuragion on historism") in 1992, and continued to be produced until 1999. These maps were the fore-resence of cighal mapping and se provide deligible information on houses and specie, but lend to show less topographic features such as vegetation. These steps were produced of both 1.2,500 and 1.1,250 acades.

Map Name(s) and Date(s)

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Historical Map - Segment A7



Order Details

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Geligaerurelit Uchaf Farm, Geligaer, Hengoed, CF82 8FY



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A Landmark Information Group Benius - v42.0 - 15-Sep-2011 - Page 12 of 12

Historical Mapping Legends

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



County Borough Boundary (England)

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Brain Resd

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Mandag Post or Fire

Supply of Unpublished Survey Information 1:2,500 and 1:1,250 Active CHARTY. Inactive Querry. Chalk Fill or Chy Pil CHAPTE Simons المركبة بمؤسفة فالمكالات COM Archeny 1.00.+ Conference Tree Non-Conferens Tree (surveyed) (surveyed) Continuous Trees Non-Coriderants Treas (Between the South Rough Develope of water low Ð **Electricity Transmission Une** County Boundary (Geographics) County & Chill Purish Soundary Civil Perton Soundary Admin. County or County Bor. Boundary F P Oct Landon Borough Boundary Symbol marking point where boundary mereing changes

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Maderal History

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Guide Fast

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Electricity

PRICE PRINTED PARK

Public Countries

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Signal Pool or Ught

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Taken California

'night Pairs, limite Ter

Prot Office

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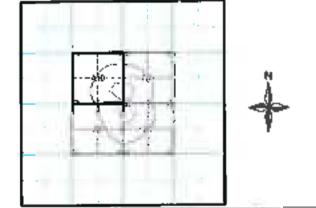
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Ordnance Survey Plan, Additional SiMs and Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Map - Segment A10



Envirocheck®

Mistorical Mapping & Photography included:

1:2.000 1676

1:2,840 1960

1:2 500 1973

(12,510 1991

12,500 1992

1720

1561

1967

1949 - 1971

1982 - 1984

1:2,500

1:2,640

1:2,640

12,60

1:2,960

Mapping Trees

Olamon and the

Głamórgańskie

Chethologic Capital

Additional Sills

Cedeanos Survey Plan

Ontenne Survey Plan

Ordestice Survey Plea

Lerge Scole Mallomal Grid Data

Supply of Linpublished Survey Information

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ı	Order Details		
ı	Order Number:	36063971_1_1	
ı	Customer Ret	Bryn Q	
ı	National Grid Reference:	312380, 19654	J
ı	Slice:	A	
ı	Site Area (Ha):	10.87	
ı	Search Buffer (m):	260	

Site Details Geillgaerweit Uchaf Farm, Gelligser, Hengoed, CF82 6FY



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A Landmark Information Group Service 142.0 18-Sep-2011 Page 1 of 11

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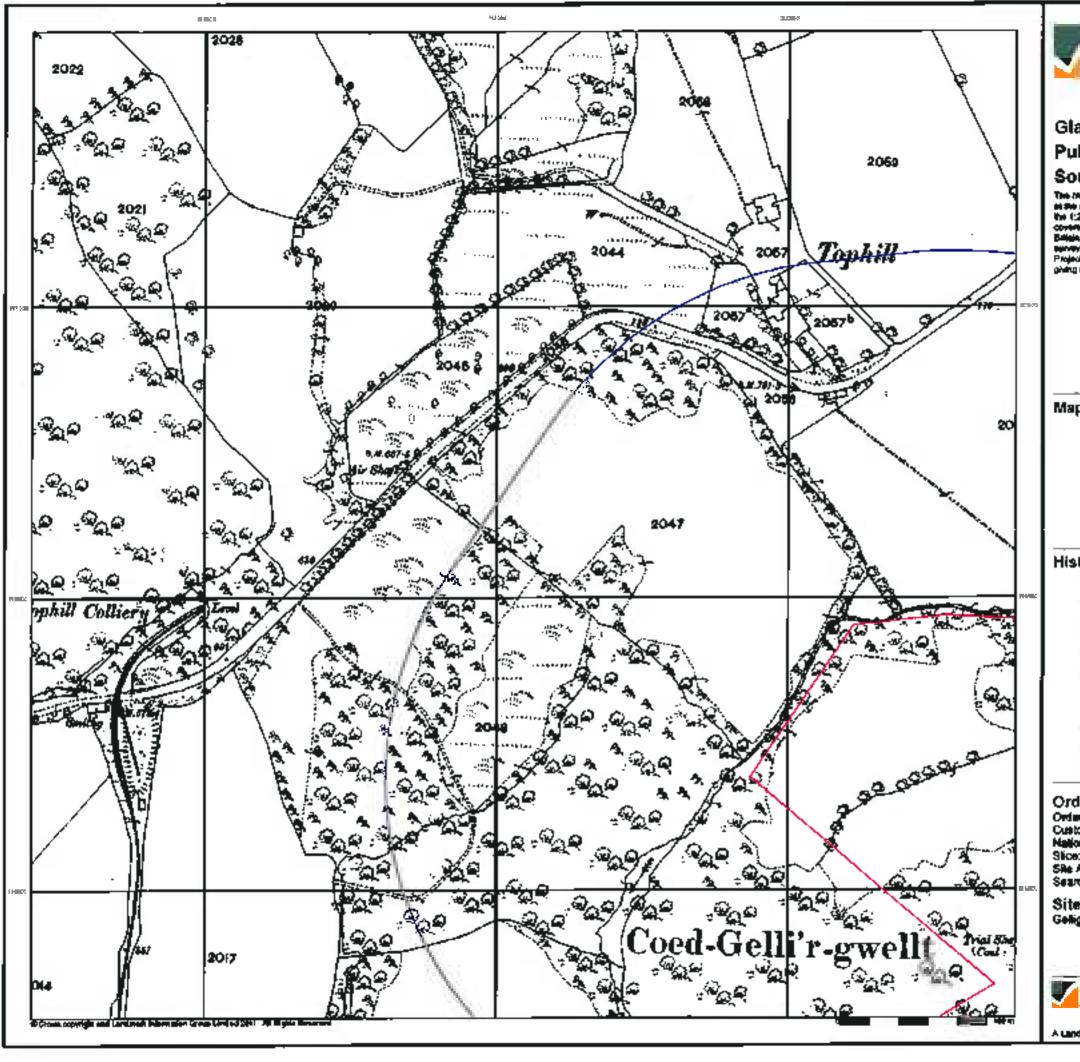
County boundary

Boundary post/stone

Boundary moreing symbol (sole: these startive appear in opposed pairs or groups of three)

Building

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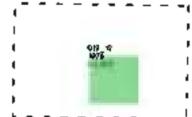


Glamorganshire Published 1875

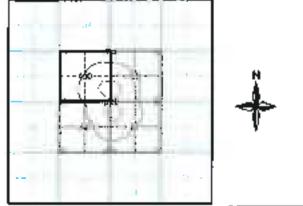
Source map scale - 1:2,500

The reserval maps shown were reproduced interminents predominantly hald as the scale adopted for England. White and Social in the 1840 a, in 1864 the 12,780 upit was accepted for mapping urban arms and by 1890 it covered the whole of what were considered to be the cultivated parts of Great Baldia. The published data gives below to their mone years fafth from the generated data. Baltim 1926, at CS maps were based on the Catalitic Projection, with independent massage of a single county or group of counter, giving data to algorithms to absorb state in output greats.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number: 35063971_1_1
Customer Ref: Bryn Q
National Gnd Reference: 312390, 195540
Slice: A
Site Area (Ha) 10,87
Search Buffer (m); 250

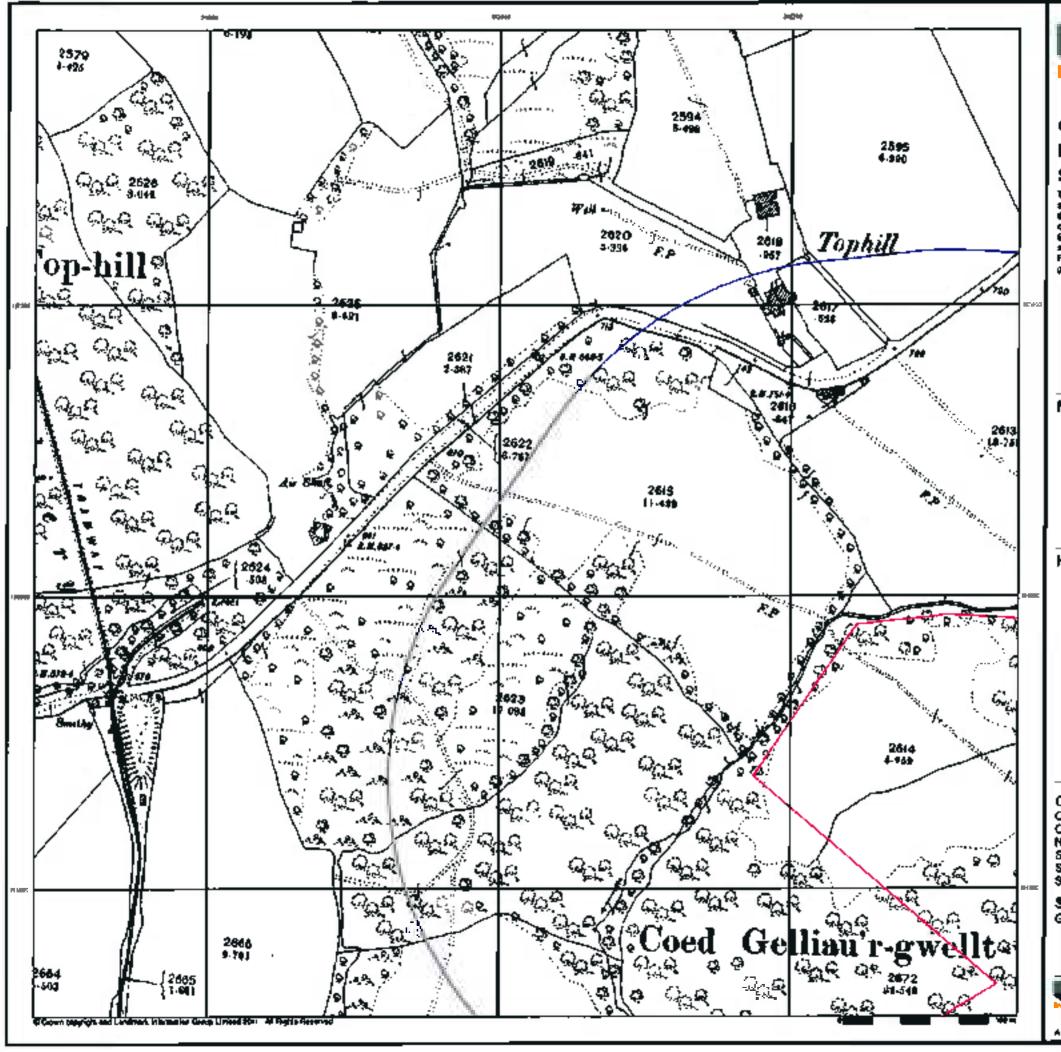
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Glamorganshire

Published 1900

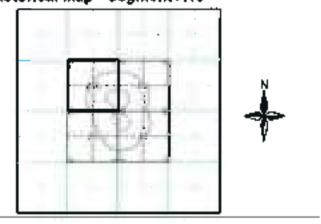
Source map scale - 1:2,500

The historical responsively were reproduced from maps productionally hald at the easie adopted for England. Valles and Scotland in the 1840's, is 1854 the 12,500 scale was adopted for mapping urban stress and by 1896 it covered the valles of what were considered to be the cultivated parts of Great Sylpsin, The published data given below is often some years later than the automorphic Boston 1830, oil G5 maps were based on the Castella Projection, with independent nerveys of a single county of group of counties, ghing size to applicant teaccuracter in outlying evens.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number: 38083971_1_1
Customer Ret: Bryn Q
National Grid Raterance: 312380, 196540
Stice: A

São Area (Ha): 10,67 Search Buffer (m): 250

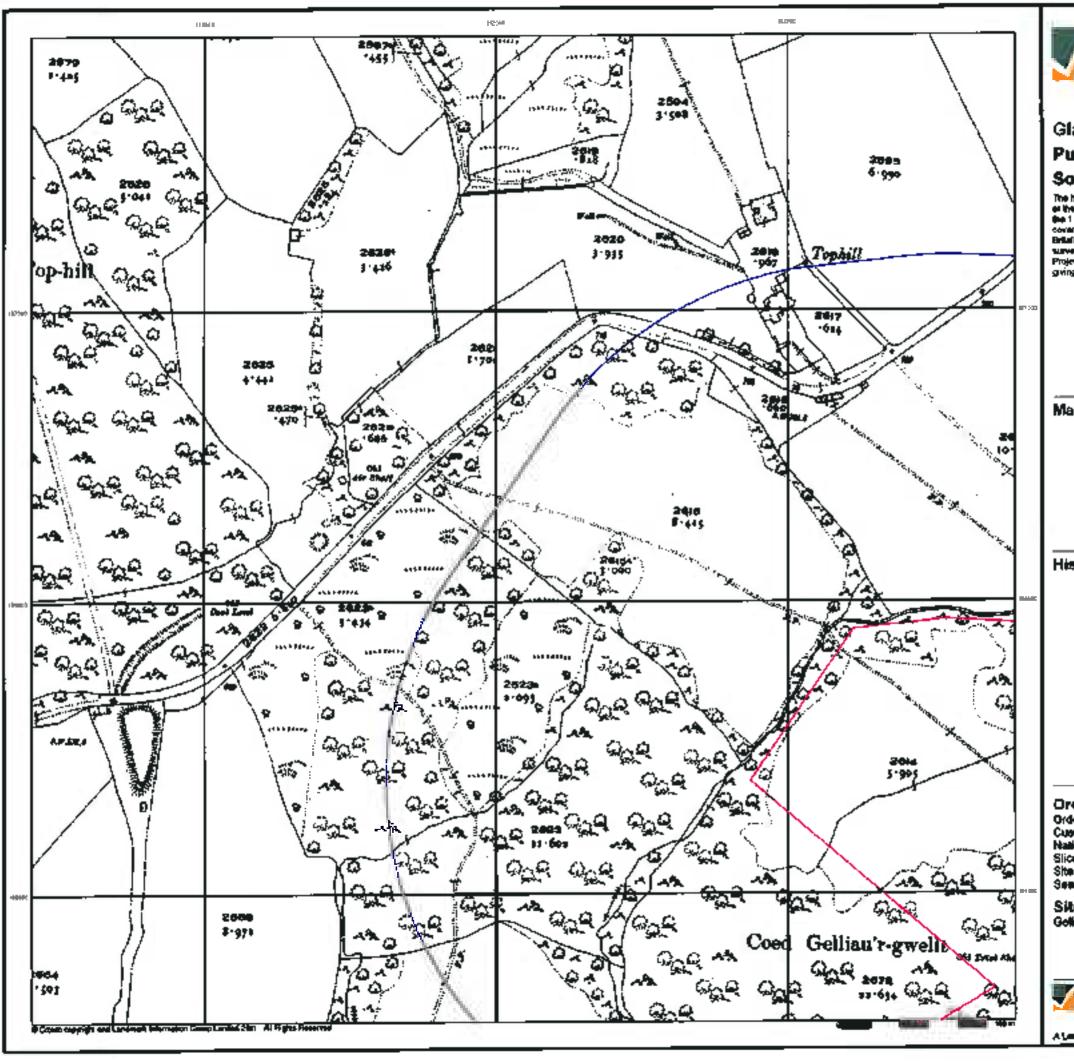
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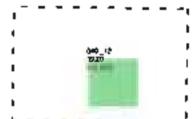


Glamorganshire Published 1920

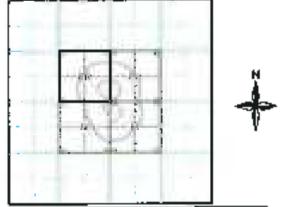
Source map scale - 1:2,500

The himstest maps about were reproduced them maps productionally held on the scale adopted for Enginest. Water and Scalenging in 1640's, is 1854 to 15,500 acate mass adopted for reapping urbae areas and by 1890 th contract the whole of what were considered to be the cuff which parts of Great Britain. The publicated date from below to other scare years later than the surveyed date. Before 1600, at 0.5 maps were based on the Caselini Projection, with independent surveyed it adopted to the publicate the scale of a single country or group of countries, giving rise to egitificant inecountains in cuttying treats.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number: 36063971_1_1
Customer Ref: Bryn Q
National Grid Reference: 312380, 196540
Slice: A
Site Area (Ha): 10.87
Search Buffer (m): 260

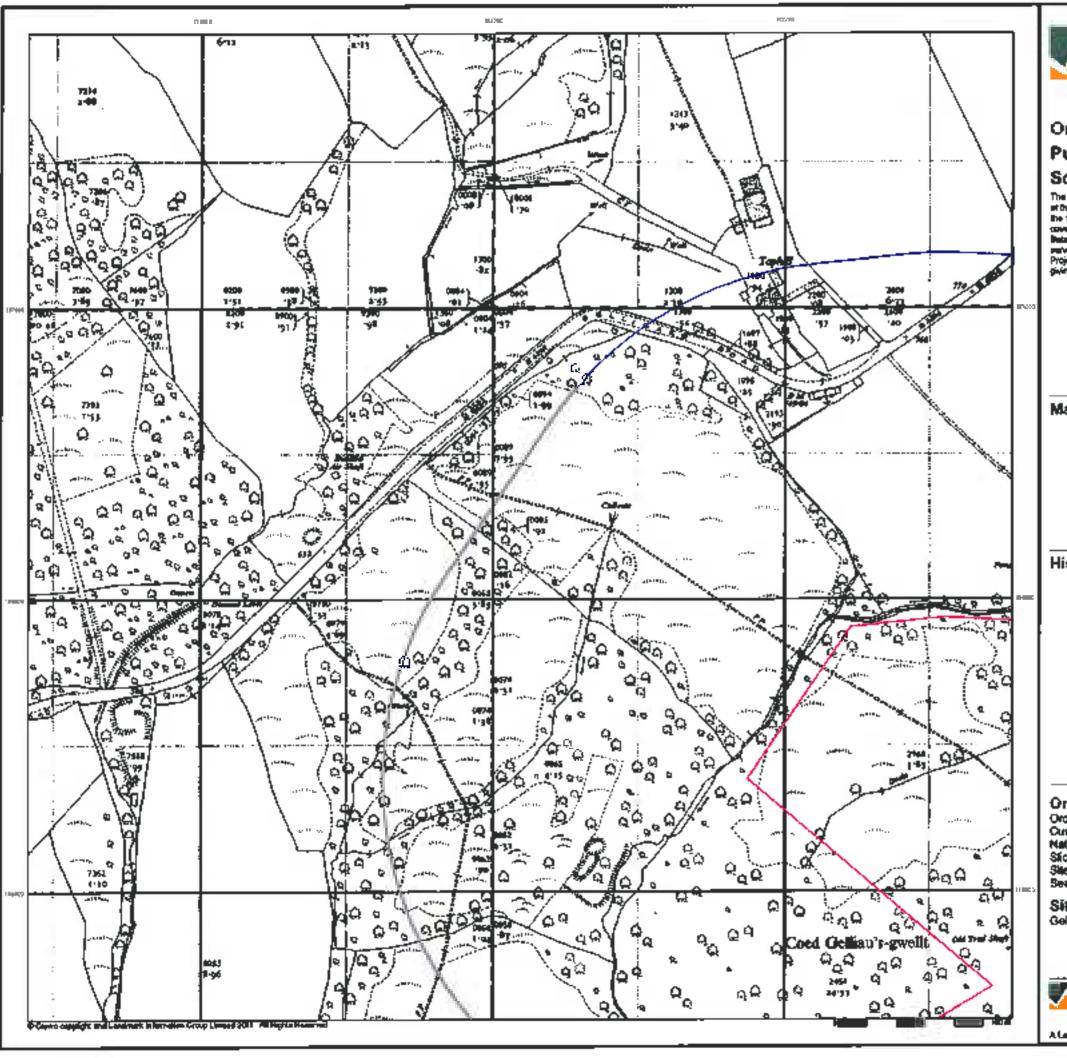
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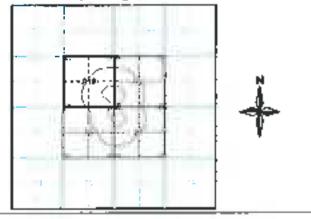
Source map scale - 1:2,500

The bisicular responsively were reproduced from prope precions analyhedd at the scale adopted for fingless, Where and Scotland in the 1940's. In 1964 the 12,300 scale was adopted for fingless, Where are Scotland in the 1940's. In 1964 the 12,300 scale was adopted for reapping when areas and by 1988 is conserved the whell of what were considered to be the cuttle and pupie of Great Batters. The published date given below in often some years being then the two purveyed date. Before 1938, all CS maps were based on the Castini Projection, with Independent surveys of a single county or group of country, giving rise to significant inaccuractes to outlying arous.

Map Name(s) and Date(s)

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Historical Map - Segment A10



Order Details

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Customer Ref: Bryn Q
National Grid Reference: 312380, 196540
Sice: A
Site Area (Ha): 10.67
Search Buffer (m): 260

Site Details

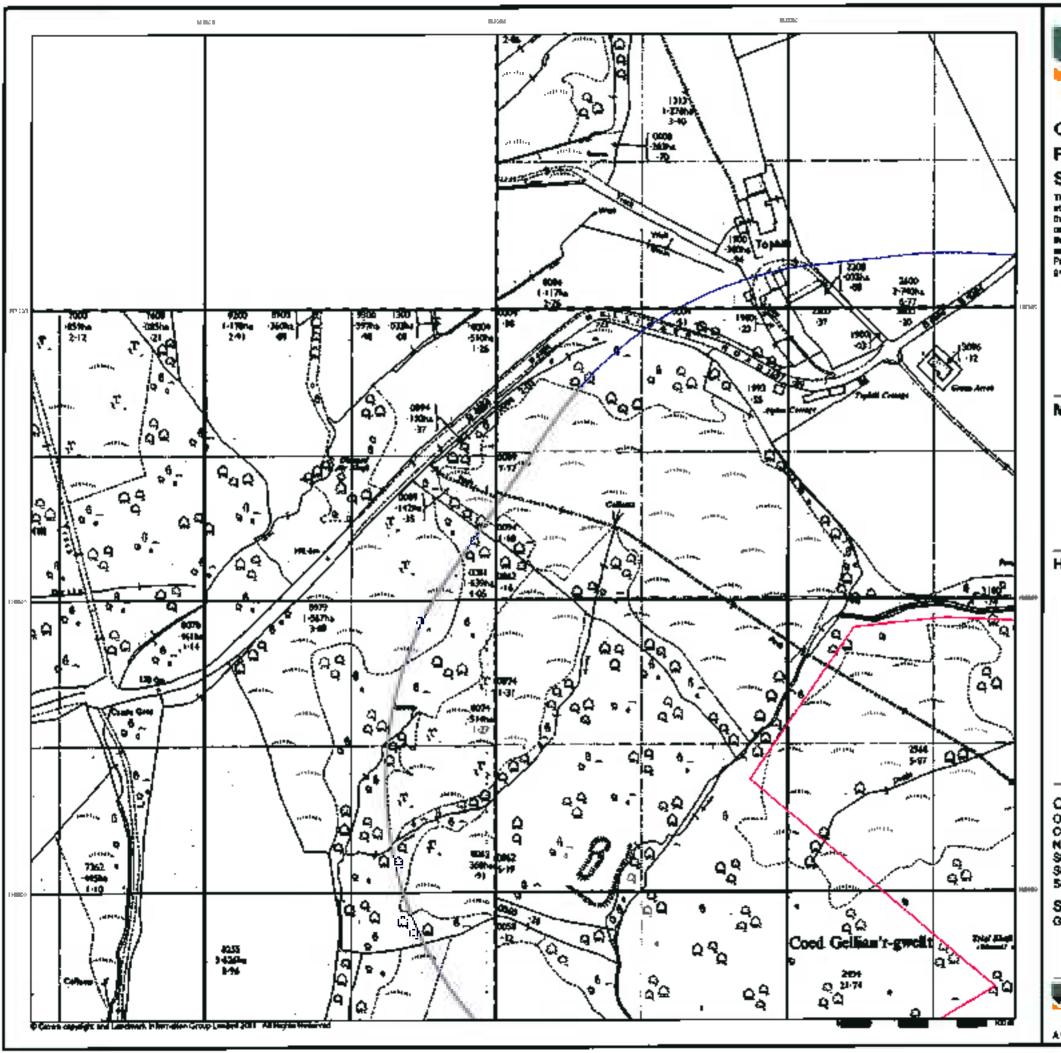
Gelligserwellt Uchaf Farm, Gelligser, Hengoed, CF62 6FY



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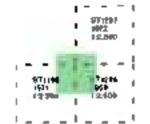


Ordnance Survey Plan Published 1969 - 1972

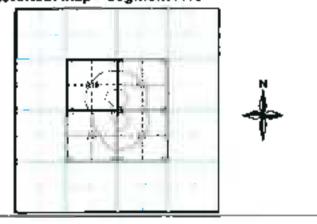
Source map scale - 1:2,500

The historical maps shown more reproduced from pulps precommonly hold at the seals adopted for England. Widel and Scound in the 1946's in 1854 the 1950 scale well adopted for mapping order excess and by 1950 2 merced the whate of what were considered to be the cuttor that purps of Greek Bellain. The published date given below is often some years later than the managed date their 1925 of Country Projection, with hidden separated as the Country Projection, with hidden separated support of country or group of country gying size to significant inaccurracies in outlying more.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number: 38083971_1_1
Customer Ref: Bryn Q
National Grid Reference: 312380, 196540
Sice: A
Site Area (Hs): 10.67
Search Buffer (m) 250

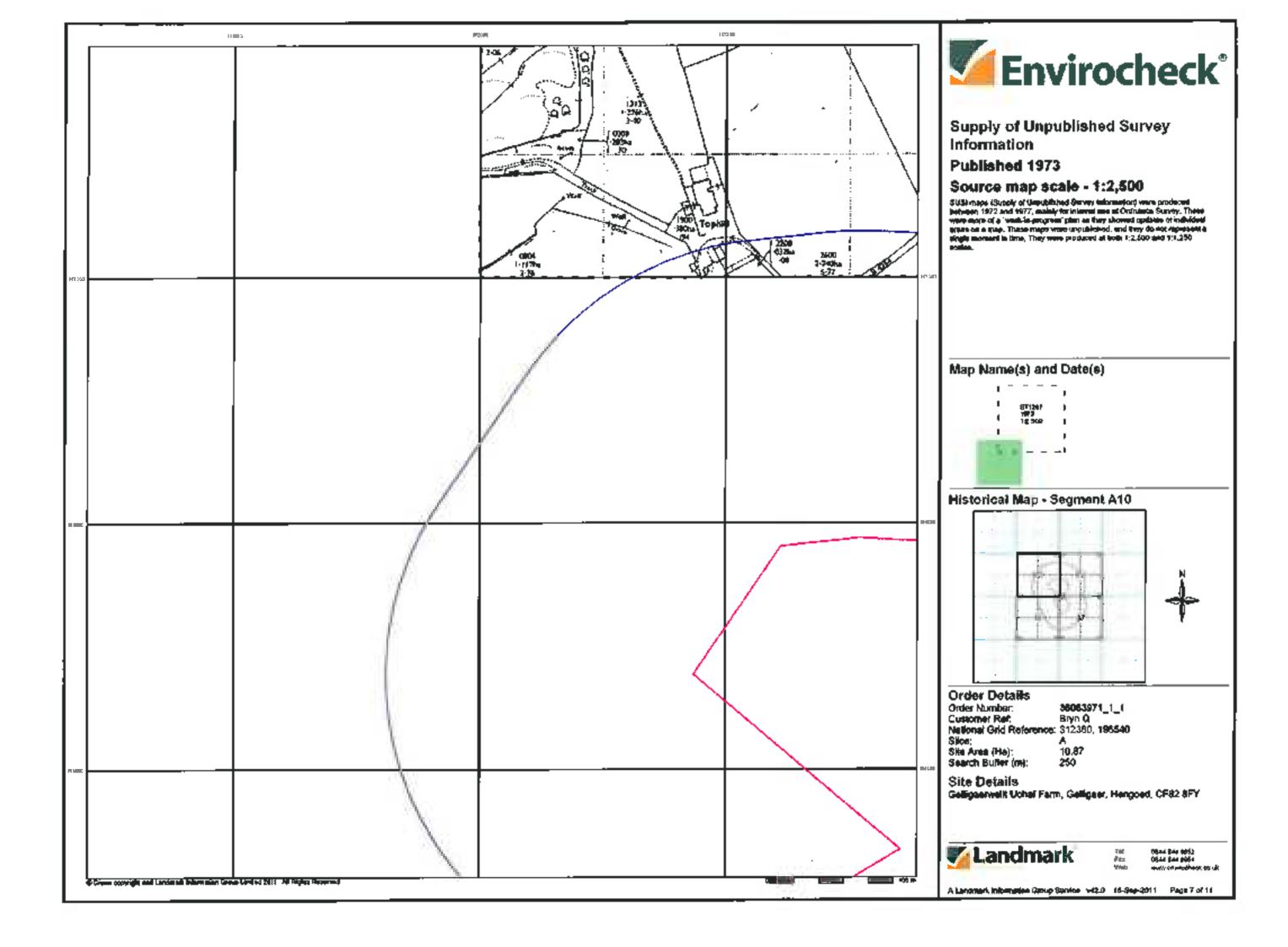
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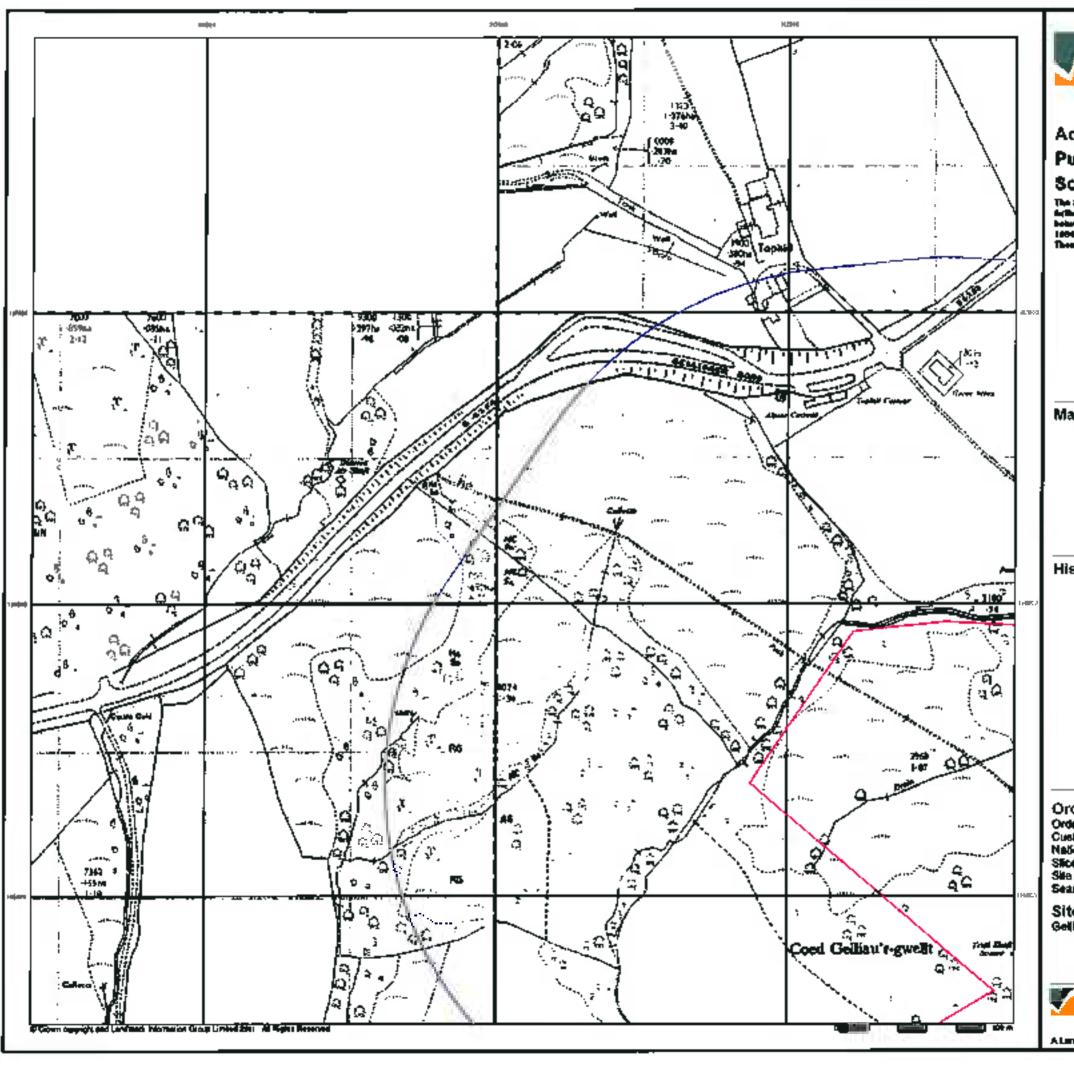
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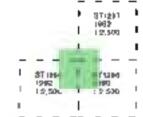


Additional SIMs Published 1982 - 1990

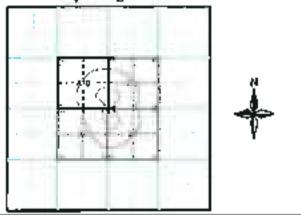
Source map scale - 1:2,500

The Sild cards (Codnance Survey's 'Survey of information on Microffin') are facilier, minor e-Odoso of mapping which were produced and published in heliuses the main editors as an area was updated. They date from 1847 to 1864, and emissis detailed beforeation on buildings, reads and feed-use. These maps were produced at both 1(2,500 and 1; 1,250 scares.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number: 36083971_1_1
Customer Raft Bryn Q
National Grid Reference: 312380, 196540
Stice: A
Site Area (He): 10.67

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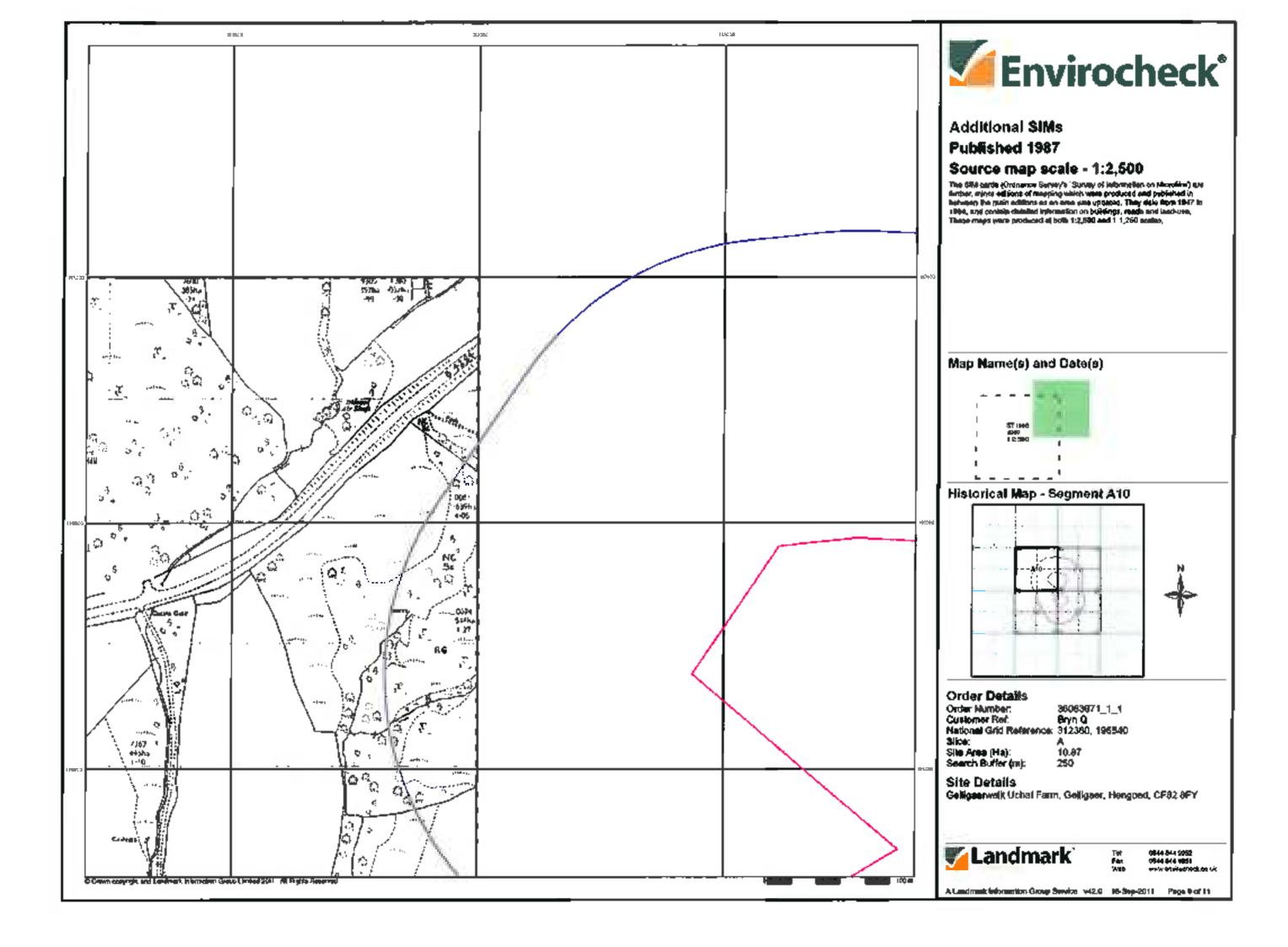
Site Details

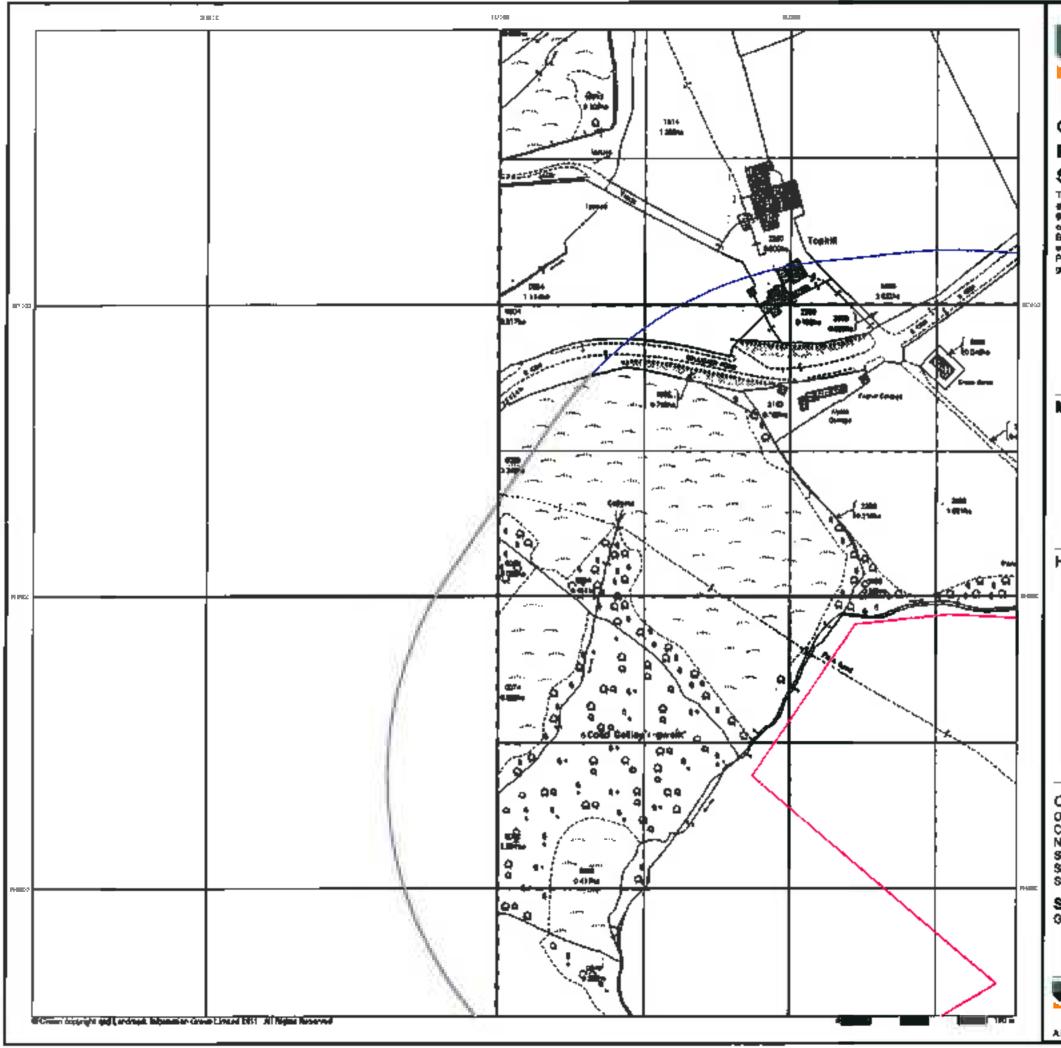
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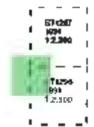




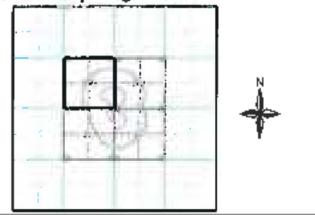
Source map scale - 1:2,500

The highested maps about were approximately the maps predominantly held at the people adopted for England. Visites and Scottand in the 1990's, in 1994 the 12,800 scale was adopted for mapping when were and by 1999 it spoying the whole of what were presidently to be the cultivated parts of Great British. The published data given below is often some years letter than the surveyed data. Subsection 1904, all OS maps were bested on the Cassin's Projection, with independent serveye of a single-country or group of asserties, giving rise to significant inecoracies in outlying eress.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number: 38083971_1_1
Customer Ref: Bryn Q
Netional Grid Reference: 312380, 196540
Stice: A
Site Area (Hs): 10.87
Search Buffer (m): 250

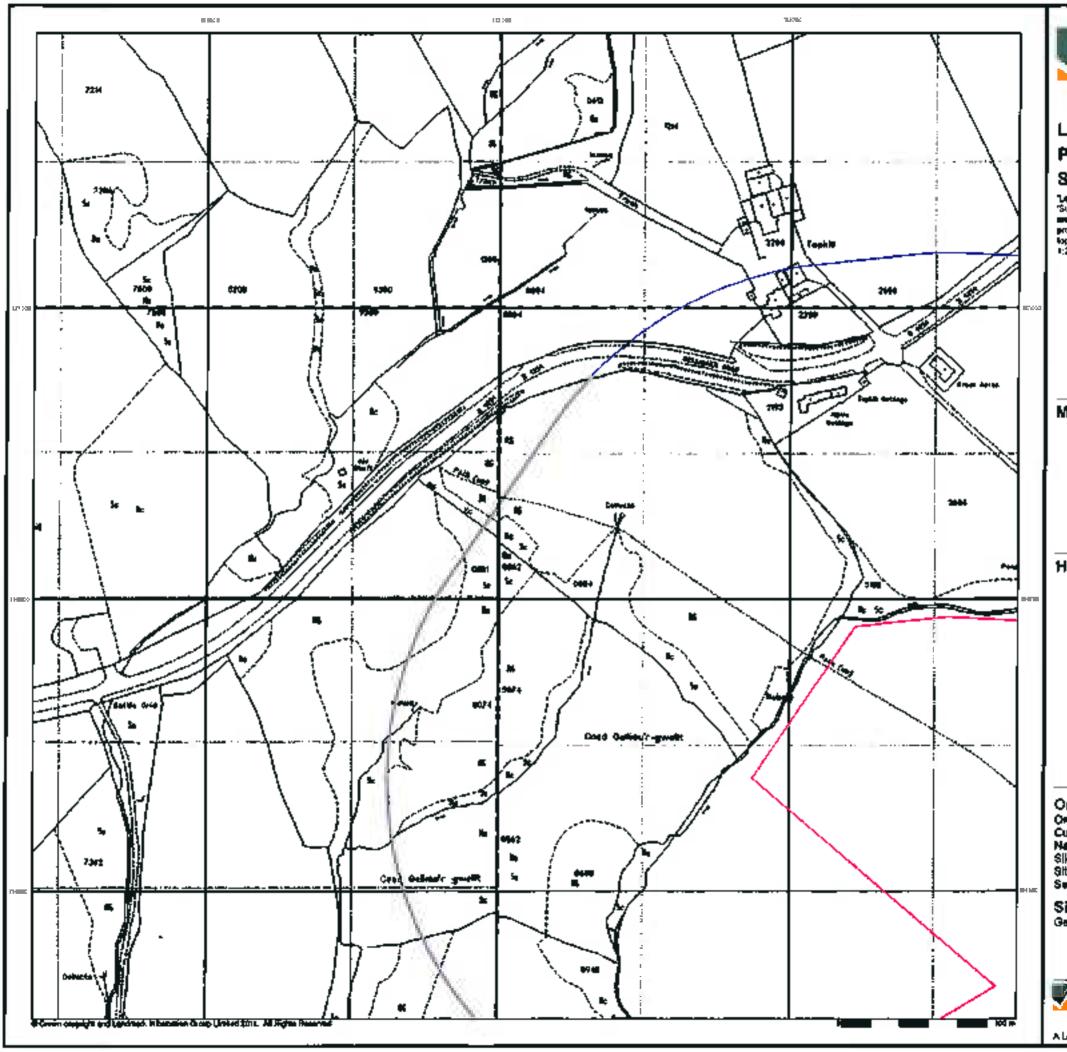
Site Details

Geligeerwelk Uchaf Farm, Geligeer, Hengoed, CF82 8FY



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Large-Scale National Grid Data Published 1993

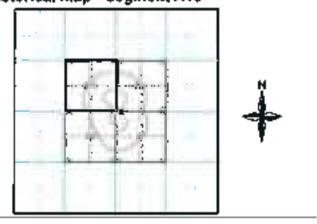
Source map scale - 1:2,500

Large Scale Highpay' Grid Data' supersected Sitt made (Quinance Survey's Survey of Information on Microfilm) in 1982, and continued to be produced with 1992. These maps were the tens-memors of digital mapping and so provide detailed information on houses and rough, but band to show line topographic features such as vegetation. These maps were produced at both 1:2:500 and 1:1:250 scales.

Map Name(s) and Date(s)

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Historical Map - Segment A10



Order Details

Order Number: 36083971_1_1
Customer Ref: Bryn Q
Netional Grid Reference: 312360, 196540
Silice: A
Site Area (Ha): 10.87
Search Buffer (m): 250

Site Details

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A Lawareth Information Group Service, 942-9 18-Sup-2011 Page 11 of 11

Historical Mapping Legends

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



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Ordnance Survey Plan, Additional SIMs and Large-Scale National Grid Data 1:2,500 and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographics) County & Chill Parish Boundary CNE Parish Boundary Aghilp, County or County Bor, Boundary

London Barough Soundary Symbol marking point where boundary

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PAP	Fire Admin Piller	aP;BL	Signal Pool or Light
FB.	Four Bridge	Spr	Spring
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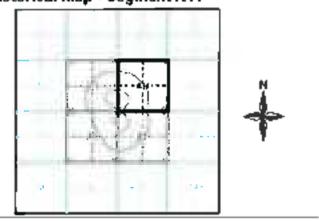
always appear in opposed pairs or groups



Historical Mapping & Photography included:

Mapping Type	\$cute	Dete	Pg
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Gramovganehire	1:2,000	1919-1920	4
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Ordnance Survey Place	112,000	1965-4572	
Supply of Capublished Servey Information	1;2,000	1974	
Additional Silits	1,3,460	1977 - 1984	1 8
Additional State	1:2,500	1984 - 1986	1
Additional Silis	1:1,000	1984	10
Oversence Survey Plan	1:2.500	1991	11
Large-Scale National Grid Date	1/2,586	1995	12

Historical Map - Segment A11



Order Details Order Number: 38083971_1_1 Customer Ref. National Grid Reference: 312380, 196540 Sile Area (Ha) 10.87

Search Buffer (m):

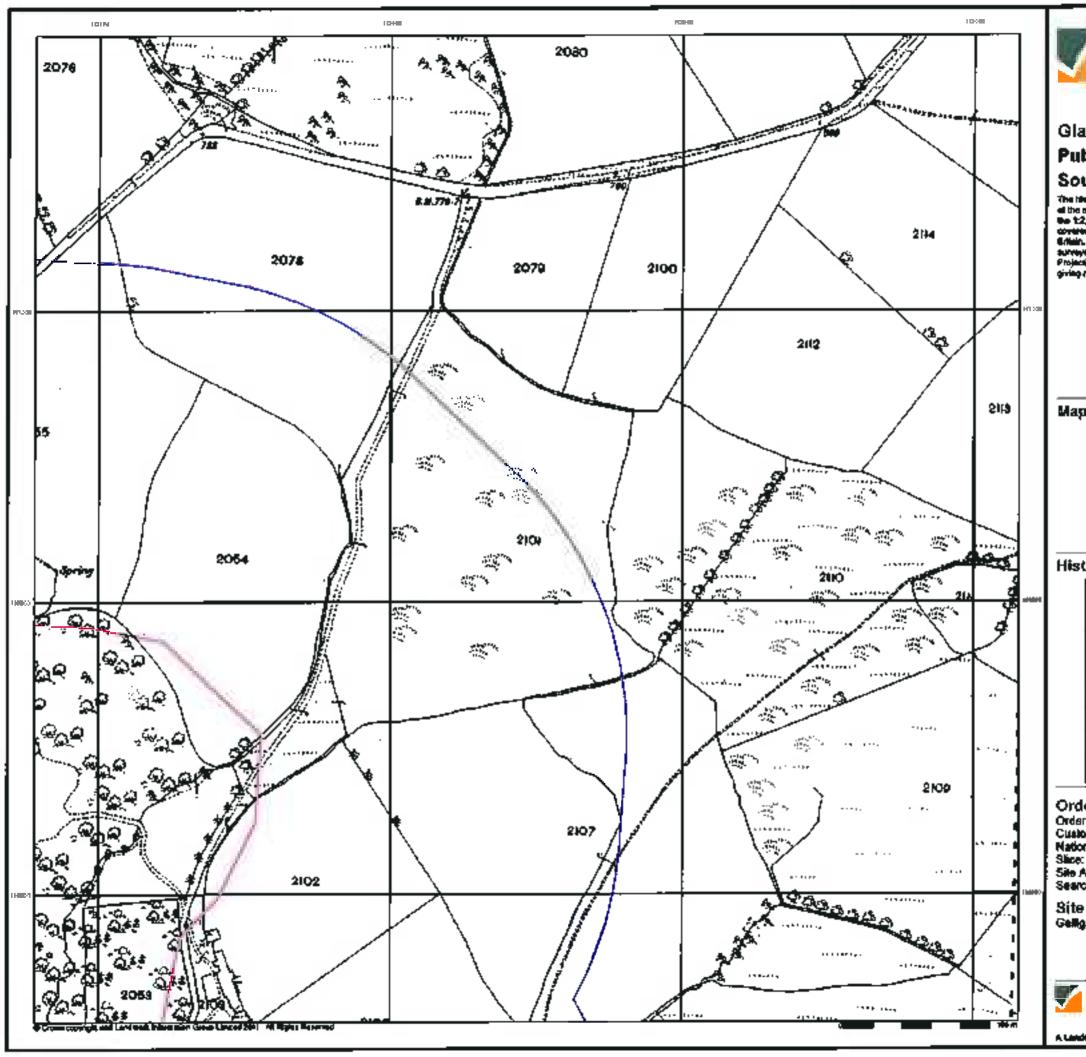
Site Details Gefigaerweik Uchaf Farm, Geligaer, Hengood, CF82 8FV

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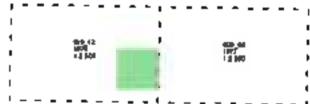


Glamorganshire Published 1875 - 1877

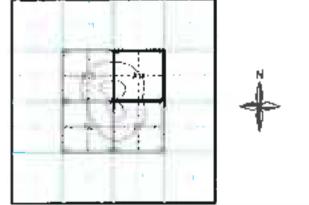
Source map scale - 1:2,500

The interestal stage shown were reproduced from maps practically held at the scale adopted for Begland. Water and Goodand in the 1640 s. In 1854 the 12,500 scale wars adopted for mapping urban means and by 1898 it covered the velocity of years were capacitated in the fire but valued parts of Great Schain. The psychologic given below is often some years later than the surveyed case. Sellow 1600, of C5 maps were besend on the Course Projection, with independent surveys of a single county or group of countries. giving dice to algorithmal inaccuration in outlying stream.

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number: 36083971_1_1 Customer Ref. Bryn Q National Grid Reference: 312380, 196540 Slince: A 10,67

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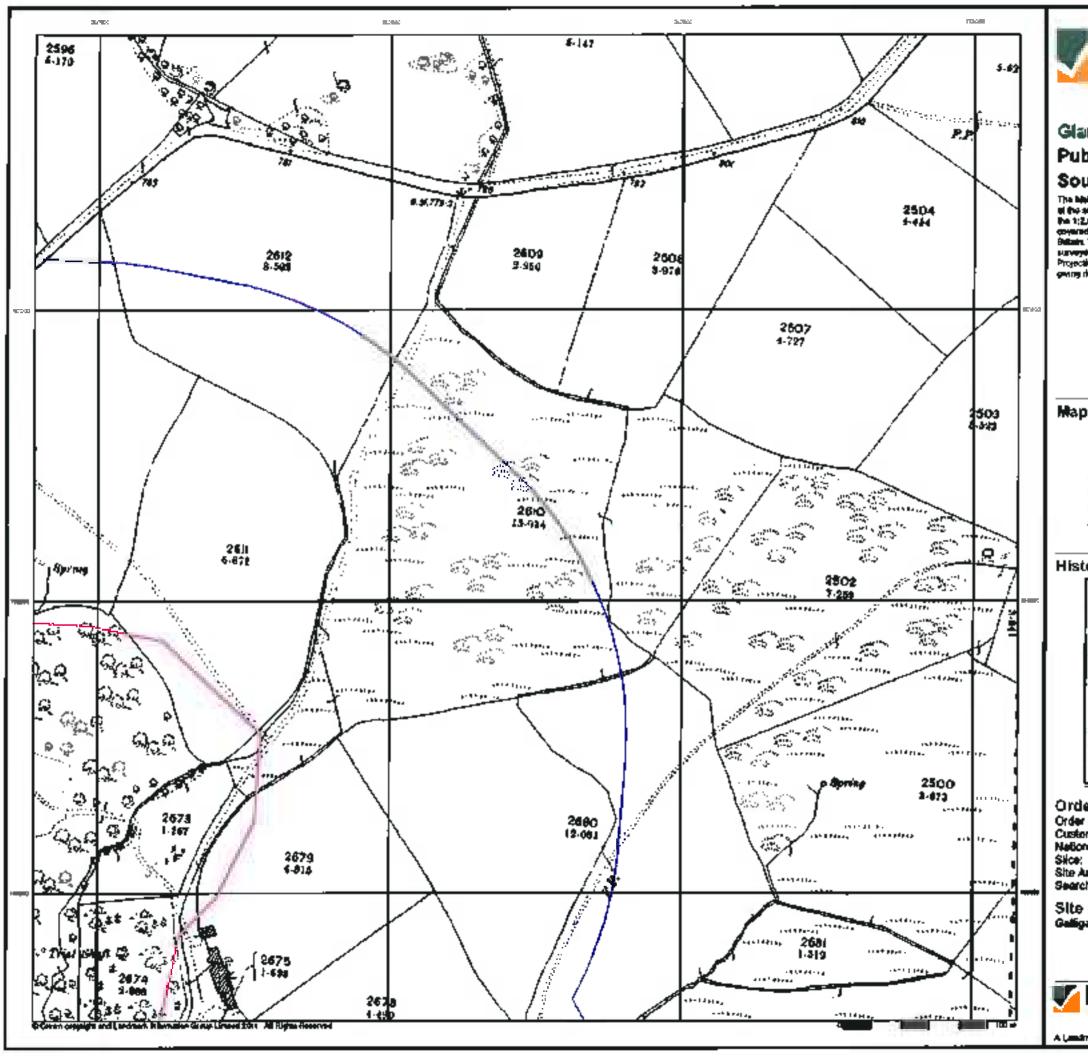
Site Details

Gelligaerwell Uchai Farm, Gelligaer, Hengosd, CF82 8FY



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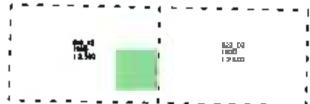


Glamorganshire Published 1900

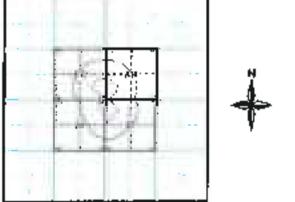
Source map scale - 1:2,500

The historical grape alternatives reproduced from maps predominantly half all the scale adopted for England, Wales and Scotland in the 1640's. In 1664 the 1; 2,500 scale was adopted for mapping union cross-send by 1696 at covered the whole of whol were considered to be the cultivated parts of Great States. The published date given bettern a deep sense years faller than the surveyed date. Before 1910, all C3 maps were based on the Casaliti Projection, with independent surveys of a single county or peops of counter, group rice to eightfooth financemeters in outping sense.

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

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Site Area (Ha): Search Buffer (m): 250

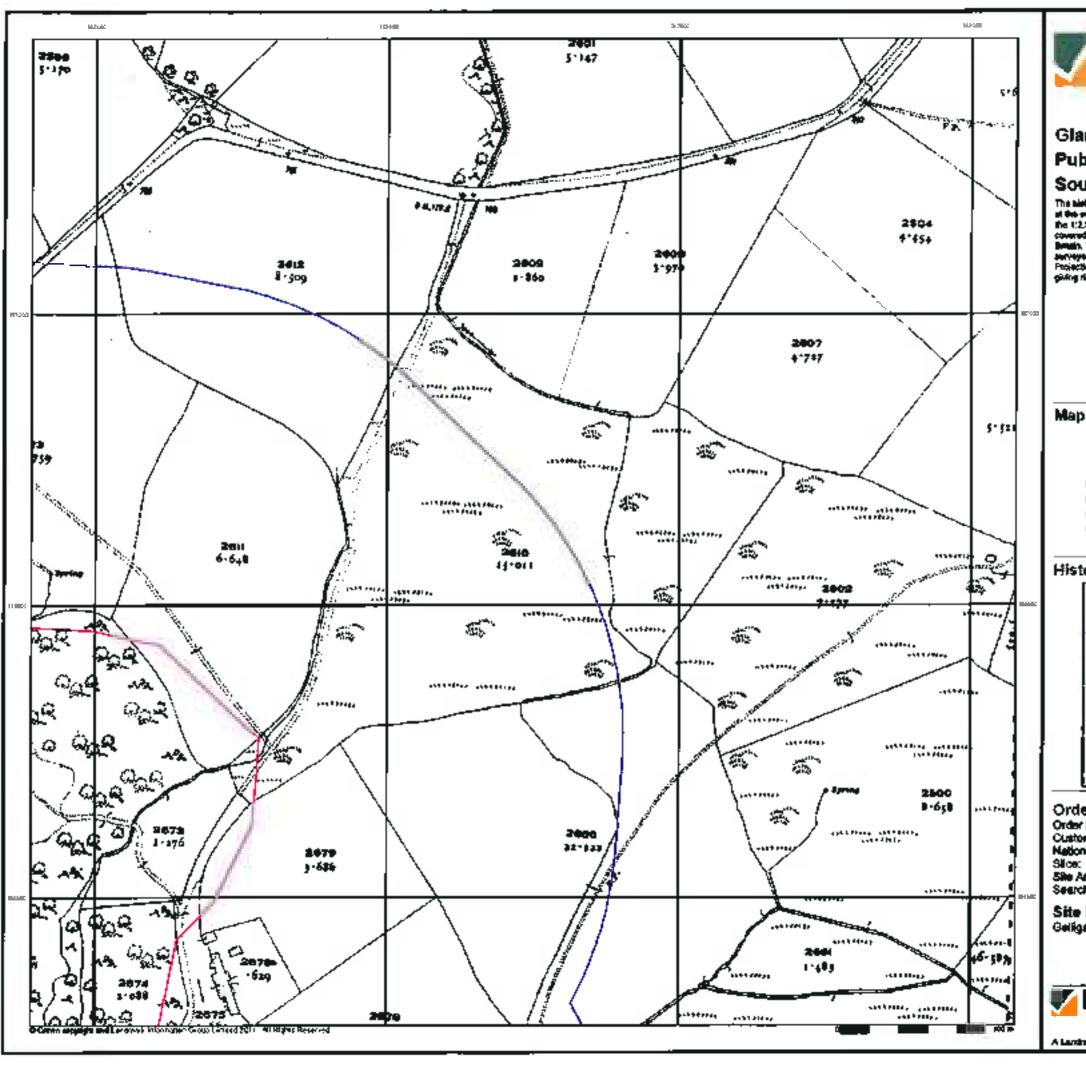
Site Details

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A Landmark Information Group-Service +42.0 16-Sep-2011 Page 3 of 52



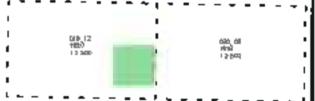


Glamorganshire Published 1919 - 1920

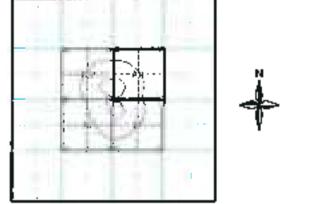
Source map scale - 1:2,500

The historical maps aftern were reproduced from maps predominently held at the scale octoped for England, Whites and Scotland in the 1840's in 1854 the 12500 active was adopted for mapping when evers and by 1886 if covered the whole of what were considered to be the cultivated pasts of Great Englan. The pupelped date given below is often agent years later than the serveyed date. Before 1895, all OS maps were heard on the Casathi Projection, with prepaparion, marrows of a ranging cavarty or group of countries, giving rise to algorithmal transcendes in outlying seems.

Map Name(s) and Date(s)



Historical Map - Segment A'l's



Order Details

Order Number: 36063971_1_1
Customer Ref: Bryn Q
National Grid Reference: 312380, 196540
Silce: A
Sile Area (Ha): 10.87
Search Buffer (m): 250

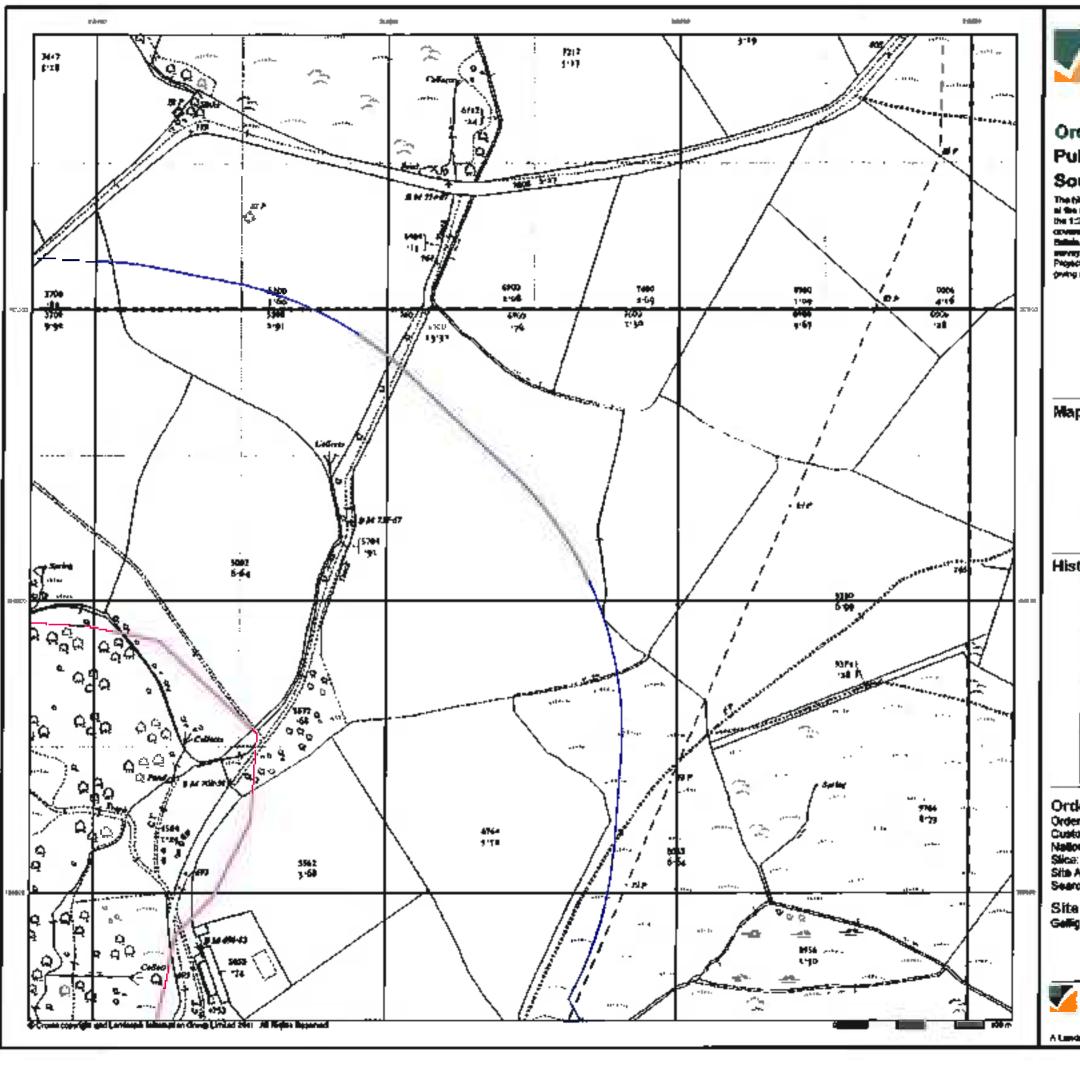
Site Details

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A Landmark Information Group Service 142 0 (E-Sep-2011 Fage 4 of 12





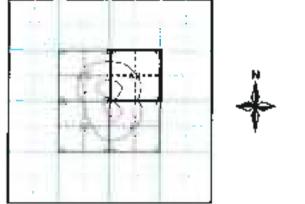
Source map scale - 1:2,500

The historical maps above were reproduced from maps predominantly half at the scale adopted for England. Weles and Sociand in the 1860's. In 1854 the 1-2,500 scale was adopted for mapping utber areas and by 1890 of covered the whole of what were consistend to be the contrasted parts of Great Ballais. The published date gives before to effect down yours later than the severyal state. Before 1930, all OS maps were besiden in the Caseful Projection, with independent surveys of a single county or group of counties, group rise to eighthour inscoundes in outping areas.

Map Name(s) and Date(s)

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Historical Map - Segment A11



Order Details

Order Number: 36063971_1_1
Customer Ref: Bryn Q
National Grid Reference: 312380, 196540
Silce: A

Site Area (He): 10.87 Search Buffer (m) 250

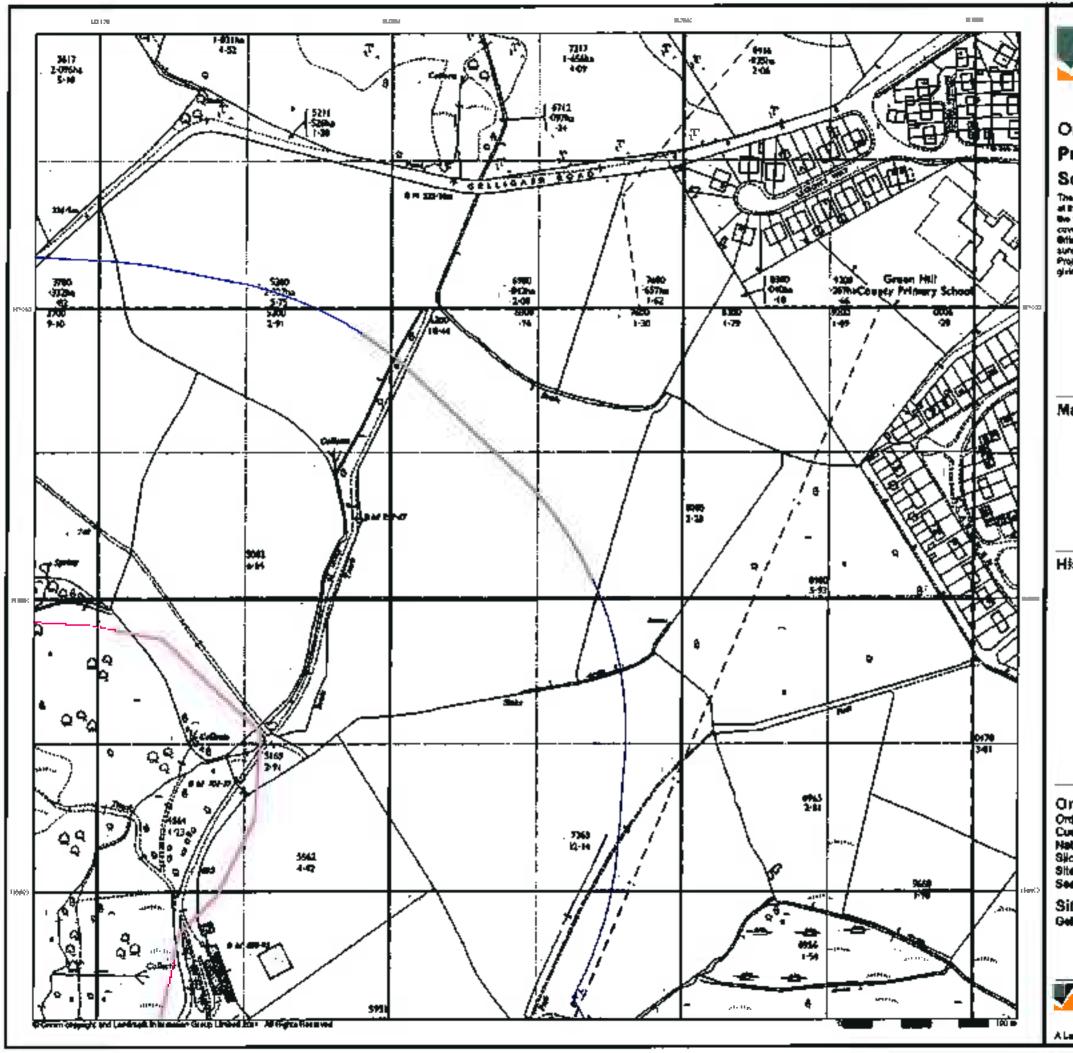
Site Details

Gelfigeerwell Uchaf Farm, Gelfigeer, Hengoed, CF82 8FY



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A Lundmidt feformétén Group Strivés 142.6 16-Sep-2611 Page 5 of 12





Ordnance Survey Plan

Published 1969 - 1972

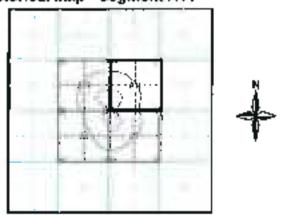
Source map scale - 1:2,500

The bioteriaal maps allown were reproduced from maps precommently held at the scale adopted for England. Without and Scalend in the 1840's. In 1854 the 1.2 500 scale was adopted for engaging when ensee and by 1899 it covered the strate of what were considered to be the cultivated parts of Quant Striam. The purchased date given below is other some years below their than the surveyed date. Selfow 1850, of OS maps were based on the Casalini Projection, with independent surveyer of a angle county or group of examine, giving files to significant inscrumetes in cuttying seems.

Map Name(s) and Date(s)

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Historical Map - Segment A11



Order Details

Order Number: 36063971_1_1 Customer Ref. Bryn Q National Grid Reference: 312380, 196540 Slice: Site Area (Ha): Search Buffer (m): 10.67

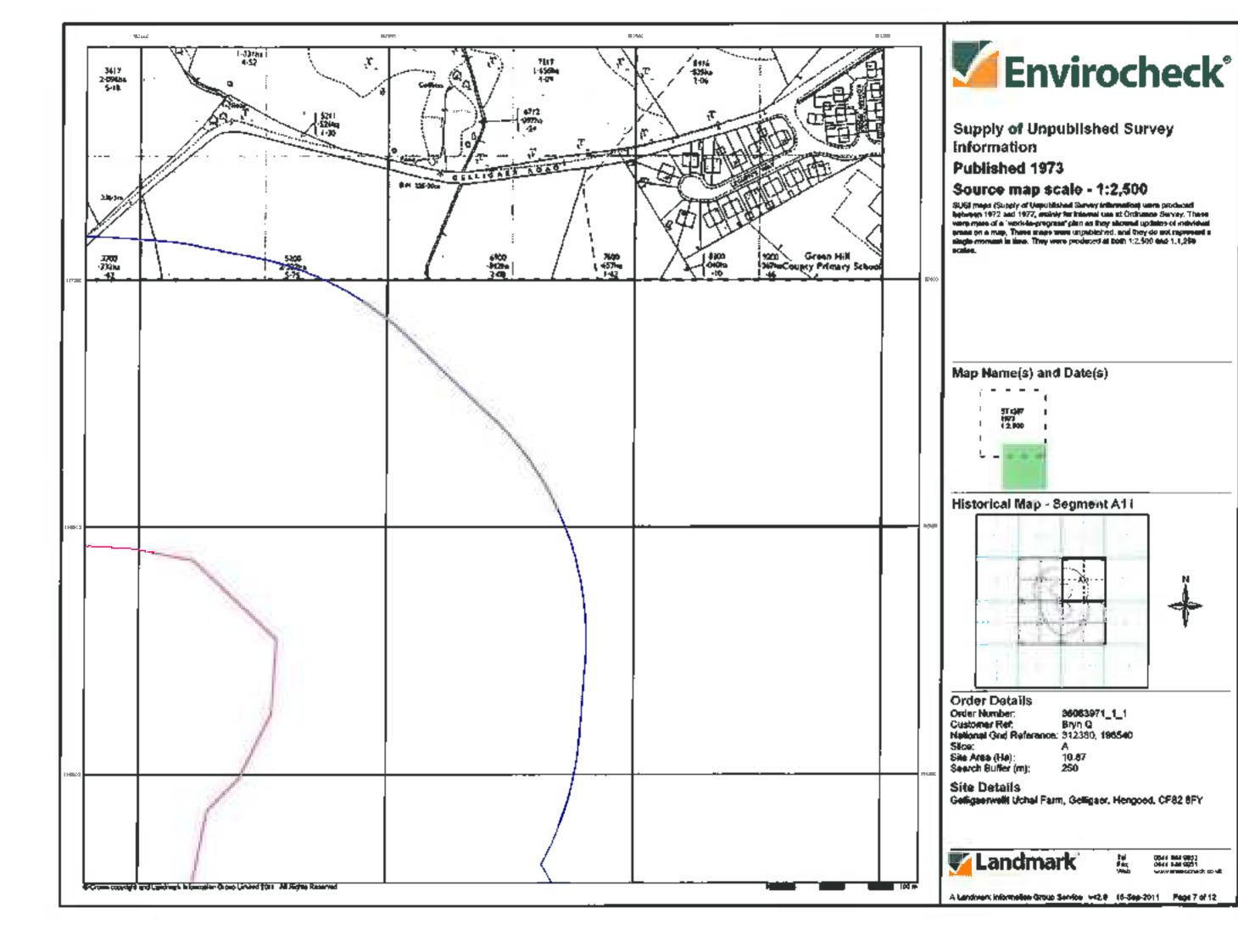
Site Details

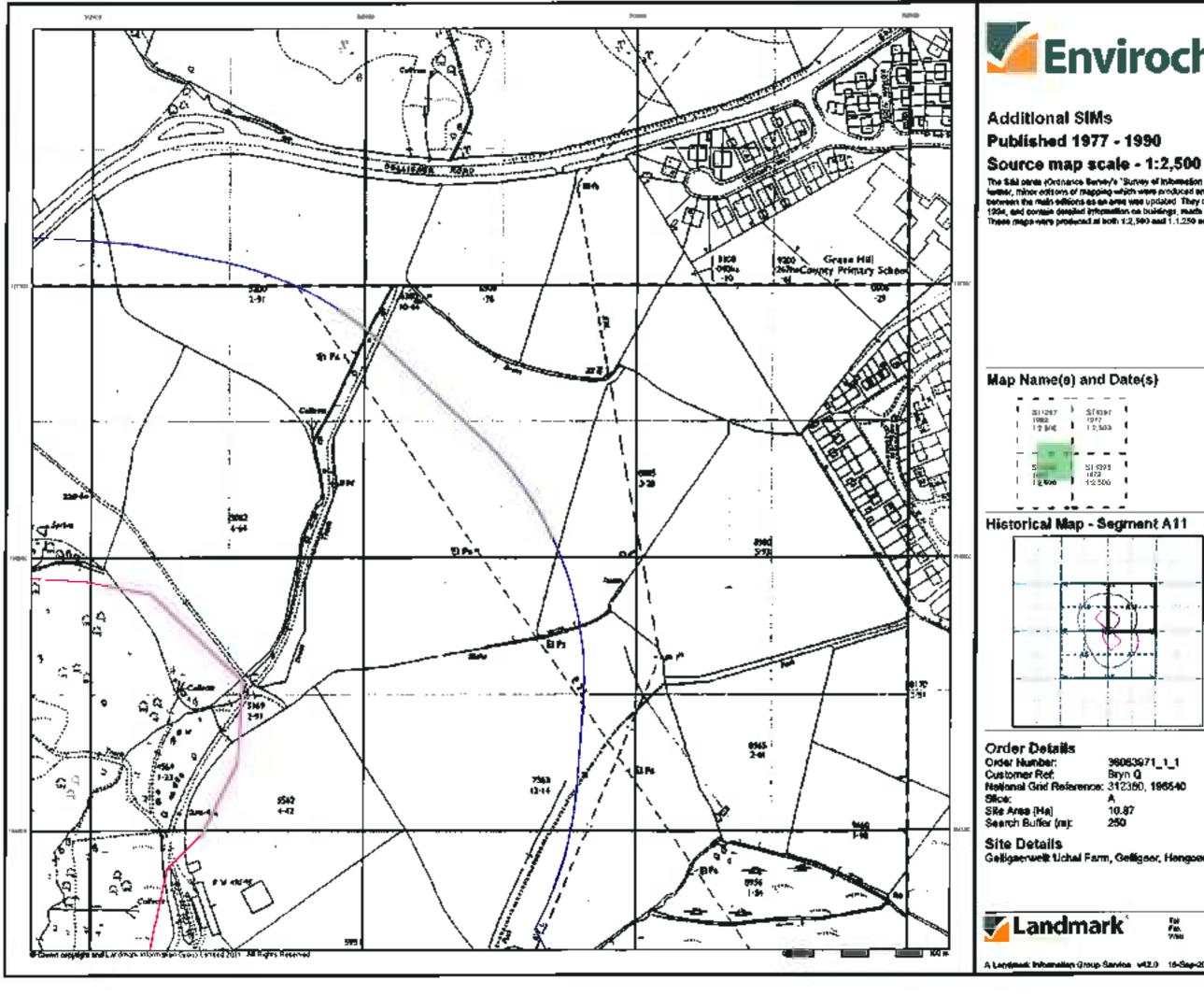
Gelligaerweilt Uchaf Farm, Gelligeer, Hongood, CF82 8FY



9844 444 625; 9844 444 6251

A Lauranum, information Group Service 942.0 16-Sep-2011 Page 6 of 12







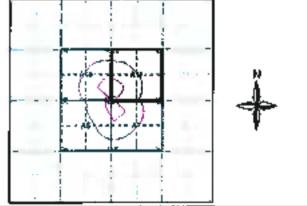
Additional SIMs Published 1977 - 1990

The Still cares (Ordinarios Burvey's "Survey of Information on Aliccoffin") are further, minor editors of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1934, and compin despited information on buildings, mach and land-use. These maps were produced at both 1:2,500 and 1.1.250 scales.

Map Name(s) and Date(s)

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Historical Map - Segment A11



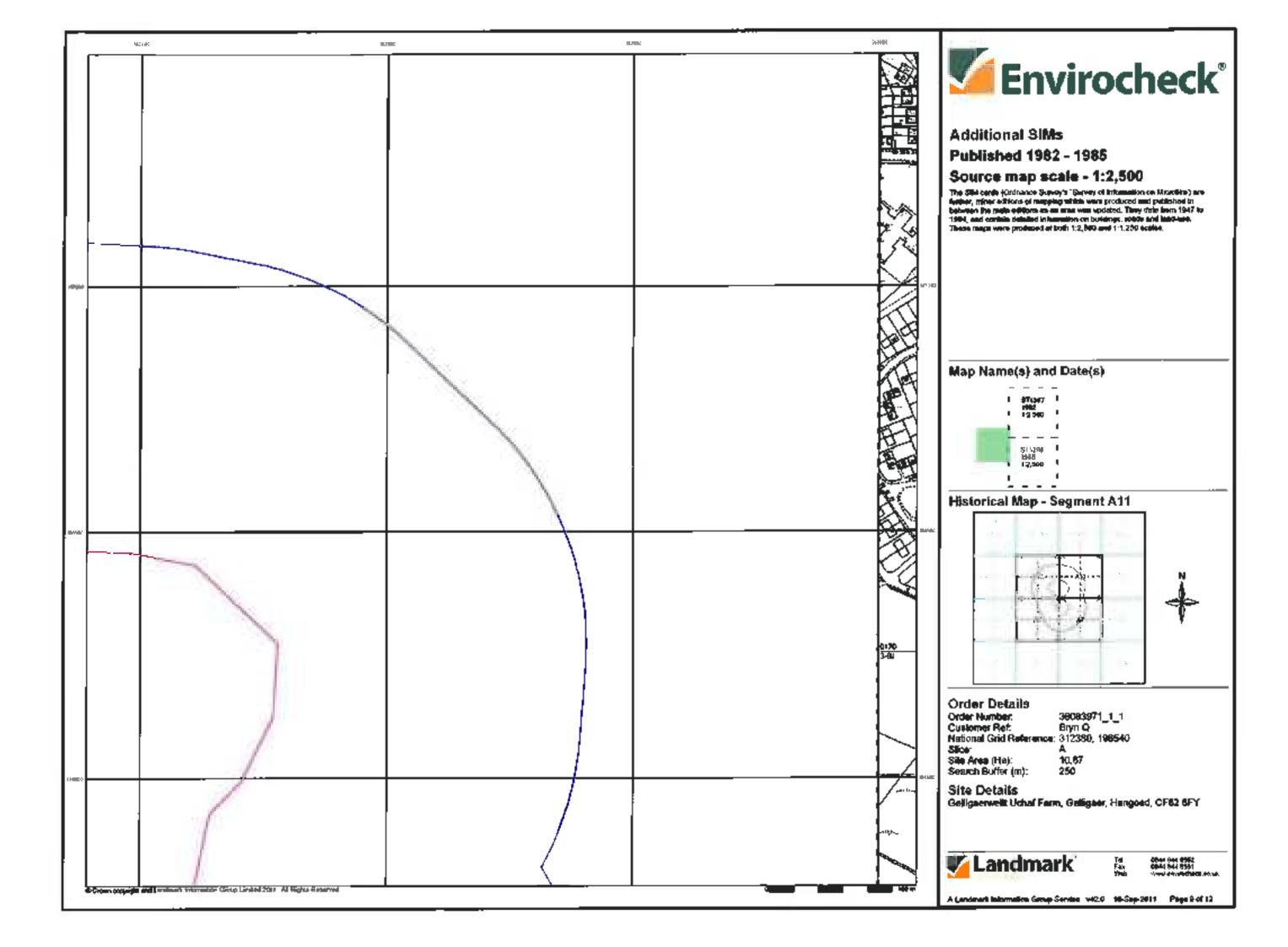
Order Number: 96063971_1_1 Customer Ref: Bryn Q Netional Grid Reference: 312360, 196540 10.87 250

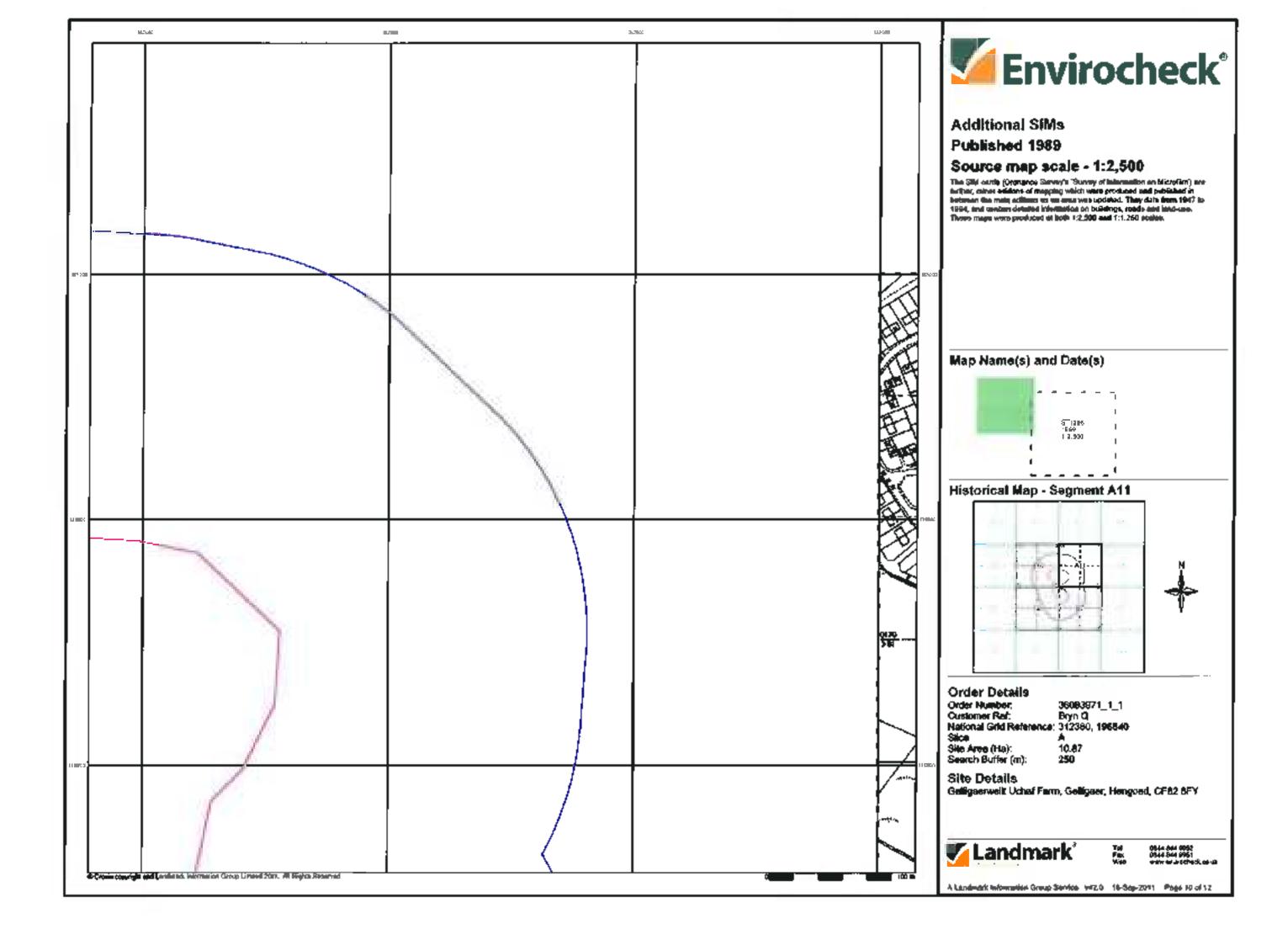
Gelfigaerwelk Lichal Farm, Gelfigser, Hengood, CF82 8FY

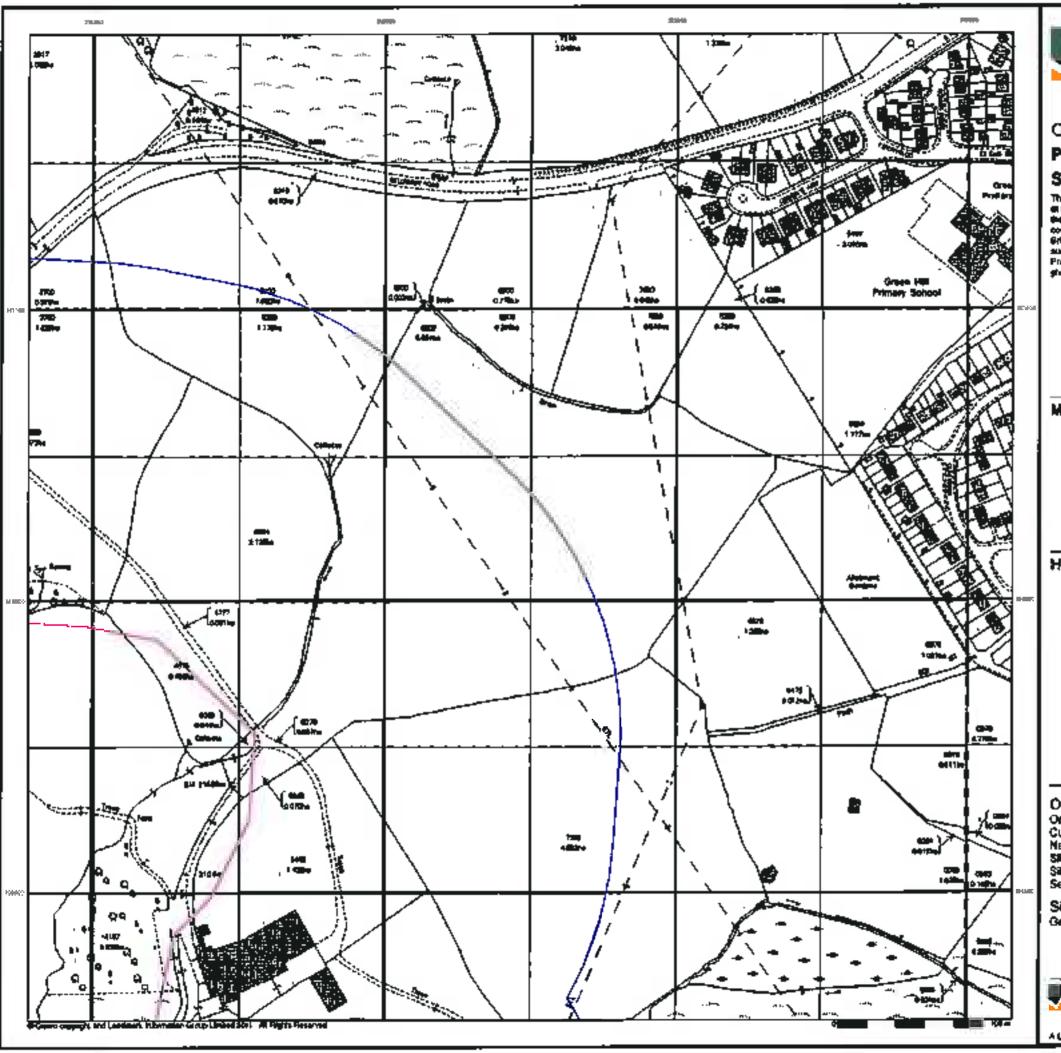


0544 944 9952 0544 944 9951

A Landmark Information Group Service v42.0 16-Sep-2011 Page 8 of 12









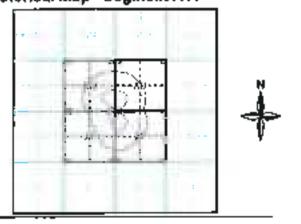
Source map scale - 1:2,500

The historical maps shown ways reproduced from maps productionally held on the scale observed for England, Visites and Scotland in the 1990's. In 1986 the 12.500 scale was adopted for ampsing when areas and by 1896 it operated the whell of shall wave considered to be the outwated parts of Great School. The published date gives below is siten some years later than the surveyed date. Setum 1998, all OS maps were based on the Cassini. Projection, with independent surregis of a single county or group of counties, giving rise to significant ineccuration in outlying shelds.

Map Name(s) and Date(s)

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- 100	:
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Historical Map - Segment A11



Order Details

Order Number: 30003971_1_1 Customer Ret Bryn O Mational Grid Reference: 312380, 198540 Shoe A 10.07

São Area (Ha): Search Guffer (m): 250

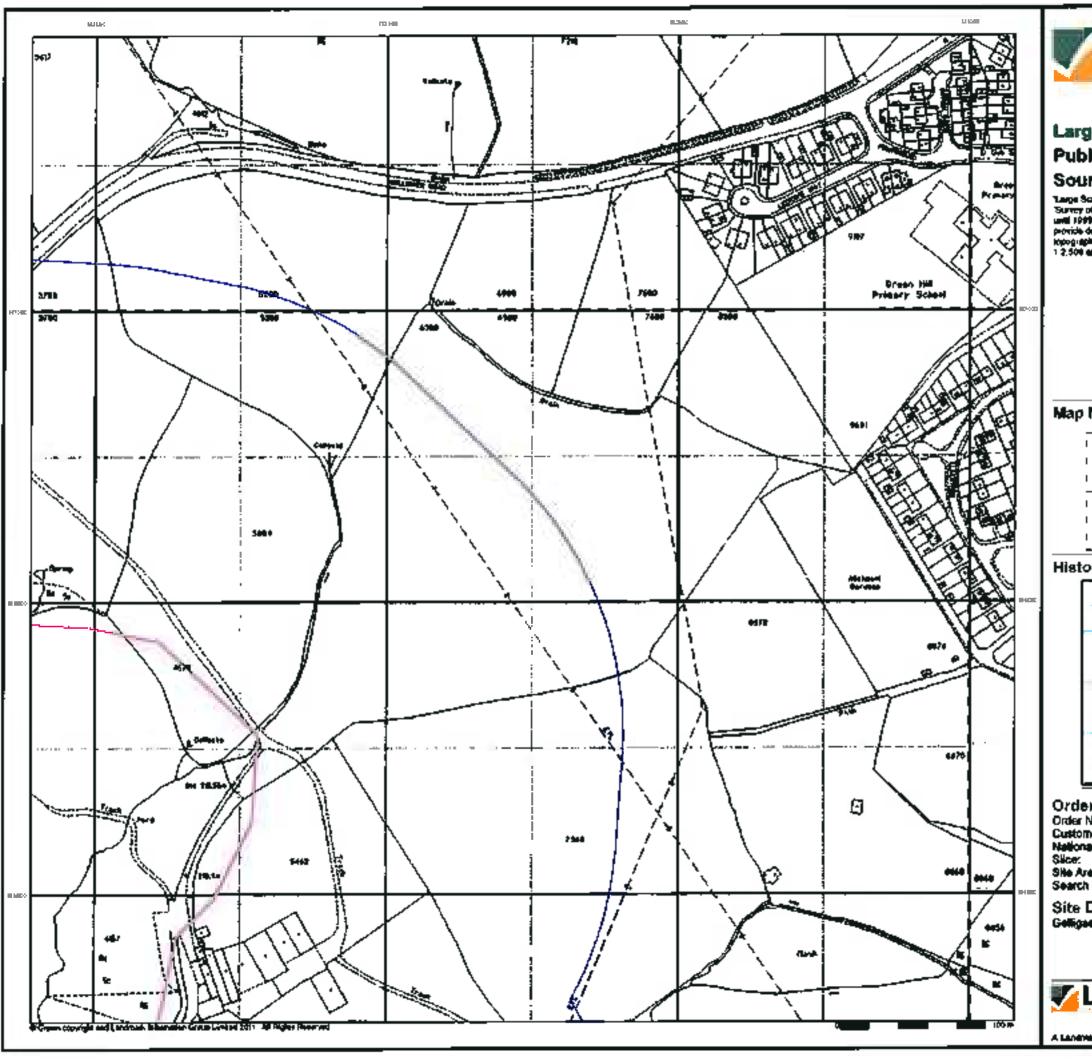
Site Details

Gelligaerwellt Uchaf Farm, Gelligaer, Hengoed, CF82 8FY



004n 04# 2052 0044 04# 2951

A Landmark Information Group Service WIZG 16-Sep-2011 Page 11 of (2)





Large-Scale National Grid Data Published 1993

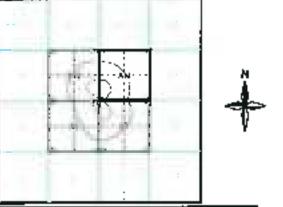
Source map scale - 1:2,500

Large Scale National Oris Detail supersected SNA cards (Definance Survey's Survey of technologies on Microline) in 1992, and confinued in the produced until 1999. These props were the fore-ranges of digital mapping and so provide descined information on houses and reads, but tend to show has logographic features such as paperation, These amps were produced at both 1 2,500 and (11,250 spains.

Map Name(s) and Date(s)

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Historical Map - Segment A11



Order Details

Order Number: 3608397) 1 1
Customes Ref: Bryn Q
National Grid Reference: 312390, 196540
Slice: A
Site Area (He): 10.67
Search Buffer (m): 250

Site Details

Gelligaerwell Uchal Farm, Gelligaer, Hengoed, CF82 8FV



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A Lanemark Information Group Service 142.9 16-Sep-2011 Page 12 of 12

Geology 1:10,000 Maps Legends

Superficial Geology

Map Coleur	Lux Code	Rock Name	Rock Type	Min and Mux Age
	THLO	TIII, Deventian	Diamicion	Deventian - Deventian
	GFDUD	Gtaciothytel Deposits. Devensian	Sand and Gravel	Devensian - Devensian
	PEAT .	Pest	Pael	Qualemany - Qualemany

Bedrock and Faults

Colour	Lex Gode	Rock Name	Rock Type	Min and Max Age
	GIDƏ	Geoveseni Formation	Sendstone	Westphelien D - Westphalien D
	606	Grovesend Formeton	Mustelone, Sittelone and Sandstone	Wesiphalian D - Wesiphalian D
	H	Hughes Member	Musistone, Sittatone	Westphallan D - Westphallan D
	Ħ	Hughes Member	Sandstone	Westphallen D - Westphallen D
	Fault			
$\overline{}$	Rook			



Geology 1:10,000 Maps

This report cambring geological map extracts taken from the 809 Digital Geological map of Great Britain at 1:10,000 scale and is designed for users carrying out preliminary site assessments who require geological major for the area around a site. This mapping may be regime up to date than previously published paper maps.

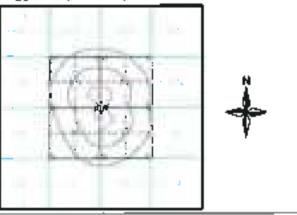
The various geological layers - artificial and landstip deposits, superficial geology and solid (bedreck) geology are displayed in superate maps, but superimposed on the final Combined Surface Geology' map, All map legends feature on this pape.

Place Note: Not all of the layers have complete neboravide soverage, so availability of data for relevant map sheets is indicated below.

Geology 1:10,000 Maps Coverage

htep 10: Map Hernet Map Dette Bedrock Goology: 871**m**#/r Supportation (Genelogy: Archicles Geology:

Geology 1:10,000 Maps - Slice A



Order Details

Order Number: 36083971_1_1 Customer Ret Bryn O National Grid Reference: 312380, 196540

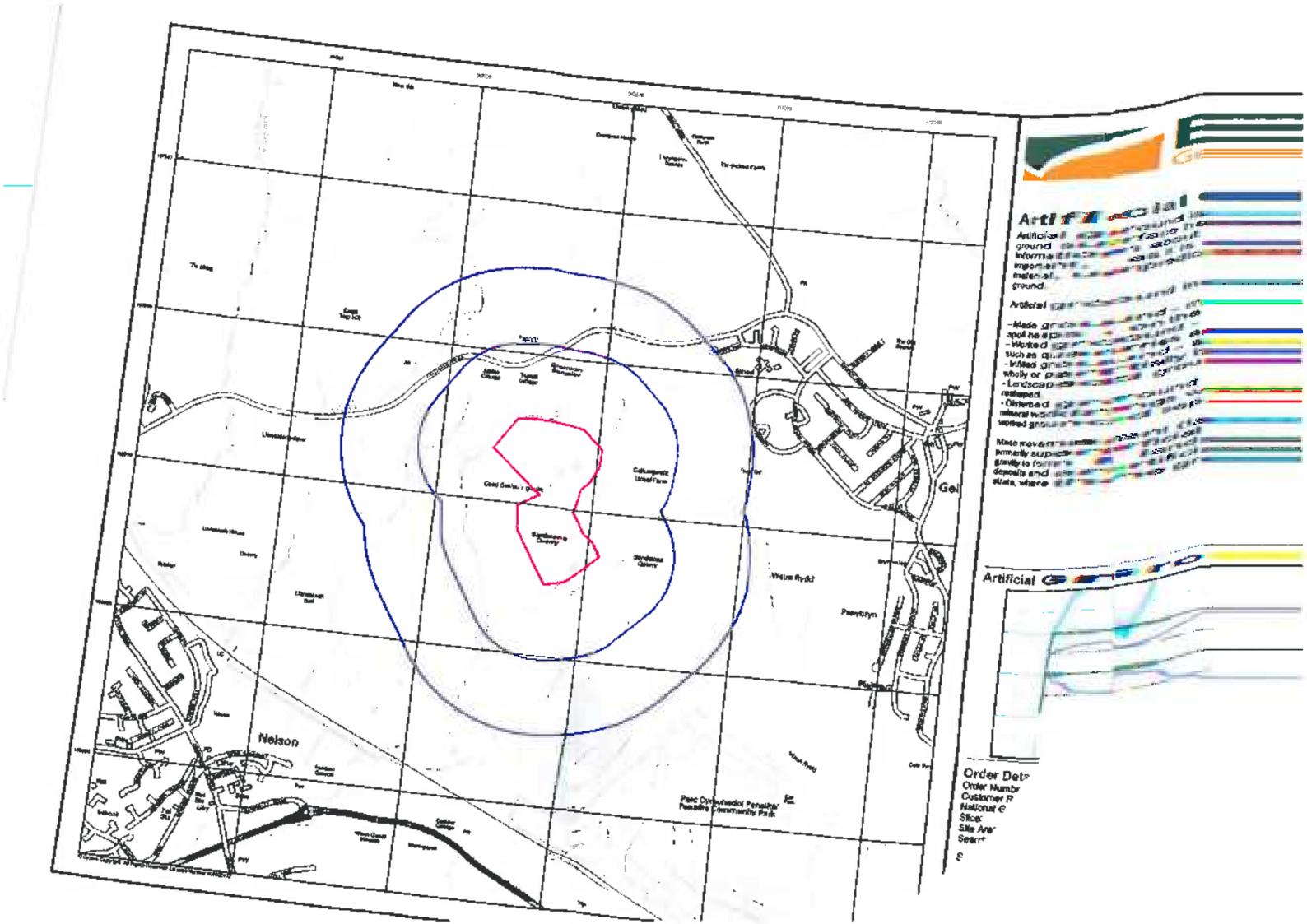
São Asea (Ha): Search Buffer (m): 10.97

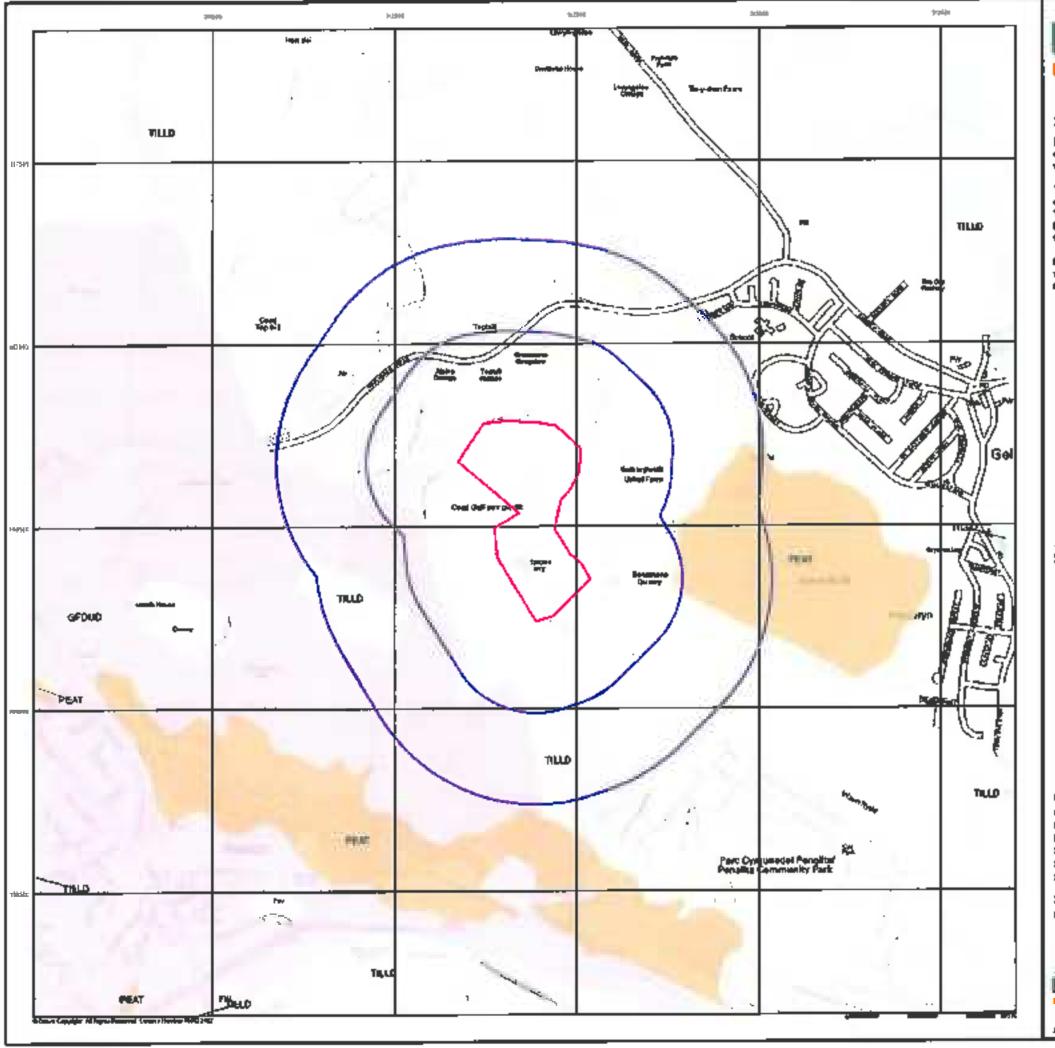
Site Details

Gelfigaerwellt Uchaf Farm, Gelfigaer, Hengoed, CF82 6FY



A Landman, Information Group Service v42.0 16-Sep-2011 Page 1 of \$







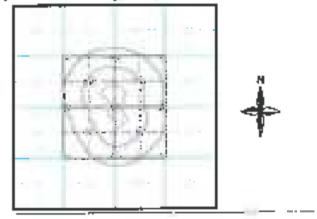
Superficial Geology

BGS 1:10,000 Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, which extends back about 1.6 million yours from the present.

They wet on older deposits or recta referred to as Sedrock, This deposits that eve of natural origin and far place." Other superficial deposits that eve of natural origin and far place. Other superficial strain may be held in the Maco Marremant defeat where they have been moved, or in the Artificial Ground dataset where they are of men-made origin.

Many of these Superficial deposits are unconsolidated sedimenta such as gravel, sand, sIR and clay, and onehous they form relatively thin, often discentinuous petaless of larger apreads.

Superficial Geology Map - Slice A



Order Details

Order Number: 38063971_1_1 Customer Ref. Bryn Q National Grid Reference: 312380, 198540 Silce: A 10.87 Site Area (Ha) Search Buffer (m):

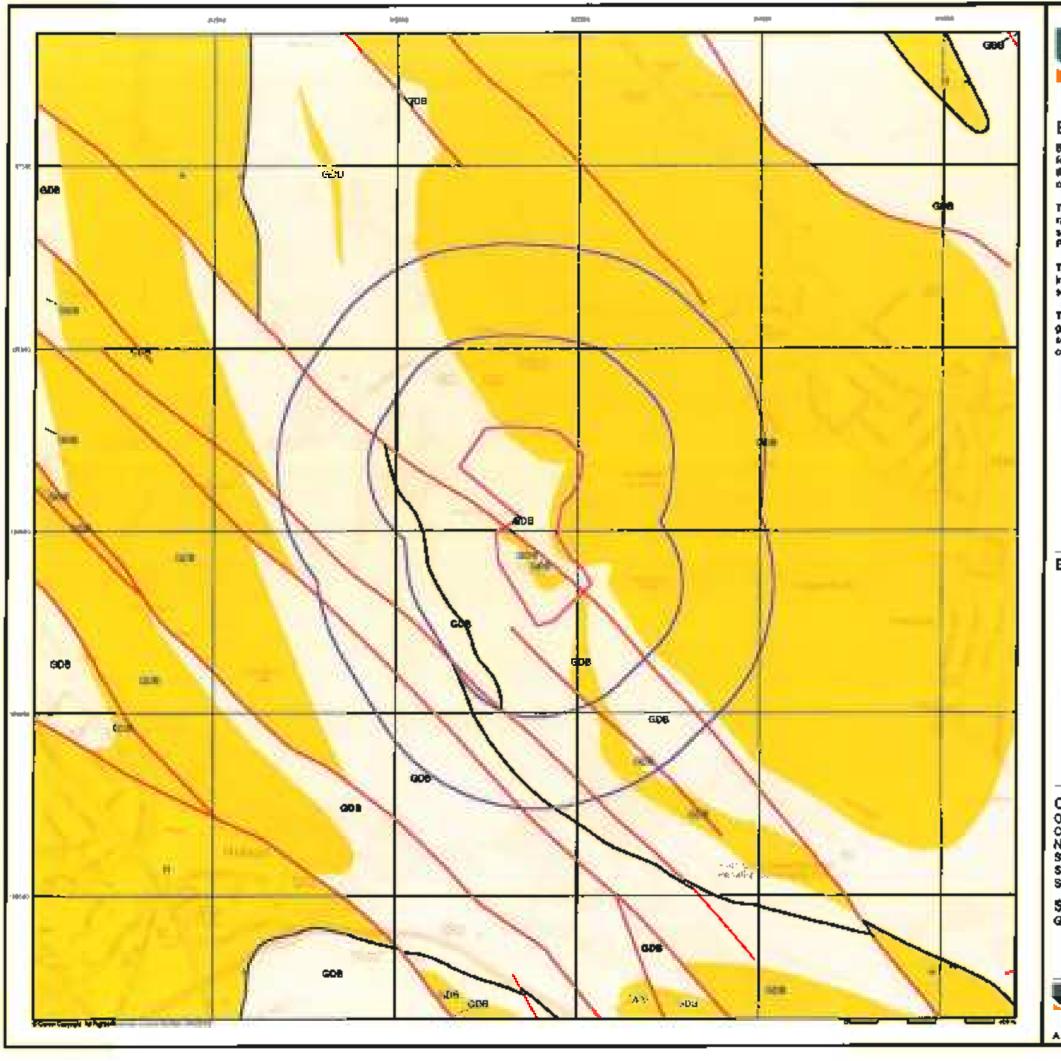
Site Details Gelligserwellt Uchaf Farm, Gelligser, Hangoed, CF82 8FY

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Bedrock and Faults

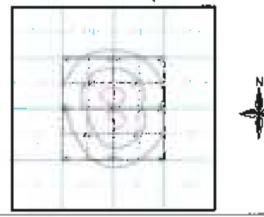
Bodrock gerelogy in a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outgrops or concentral beheath superficial deposits or tenter.

The bodrock has formed over vast langits of geological time ranging from ancient and highly alleved rocks of the Preterozolo, some 2500 million years ago, or older, up to the relatively young Pilocene, 1.8 million years ago.

The bedrock geology includes many fidulogies, often classified into three types based on origin; (gneous, restamorphic and sedimentary.

The BGS Faults and Rock Segments dateset includes geological faults and thin bods mapped as lines such as coal seams and mineral velos. These are not restricted by age and could relate to technics of any of the 1:10,000 geology datesets.

Bedrock and Faults Map - Slice A



Order Details

Order Number: 35083971_1_1
Customer Ref: 6nyn Q
National Grid Reference: 312380, 196540
Stice: A

Situ Area (Ha): Search Builfer (m)

a): 10.87 r(m) 500

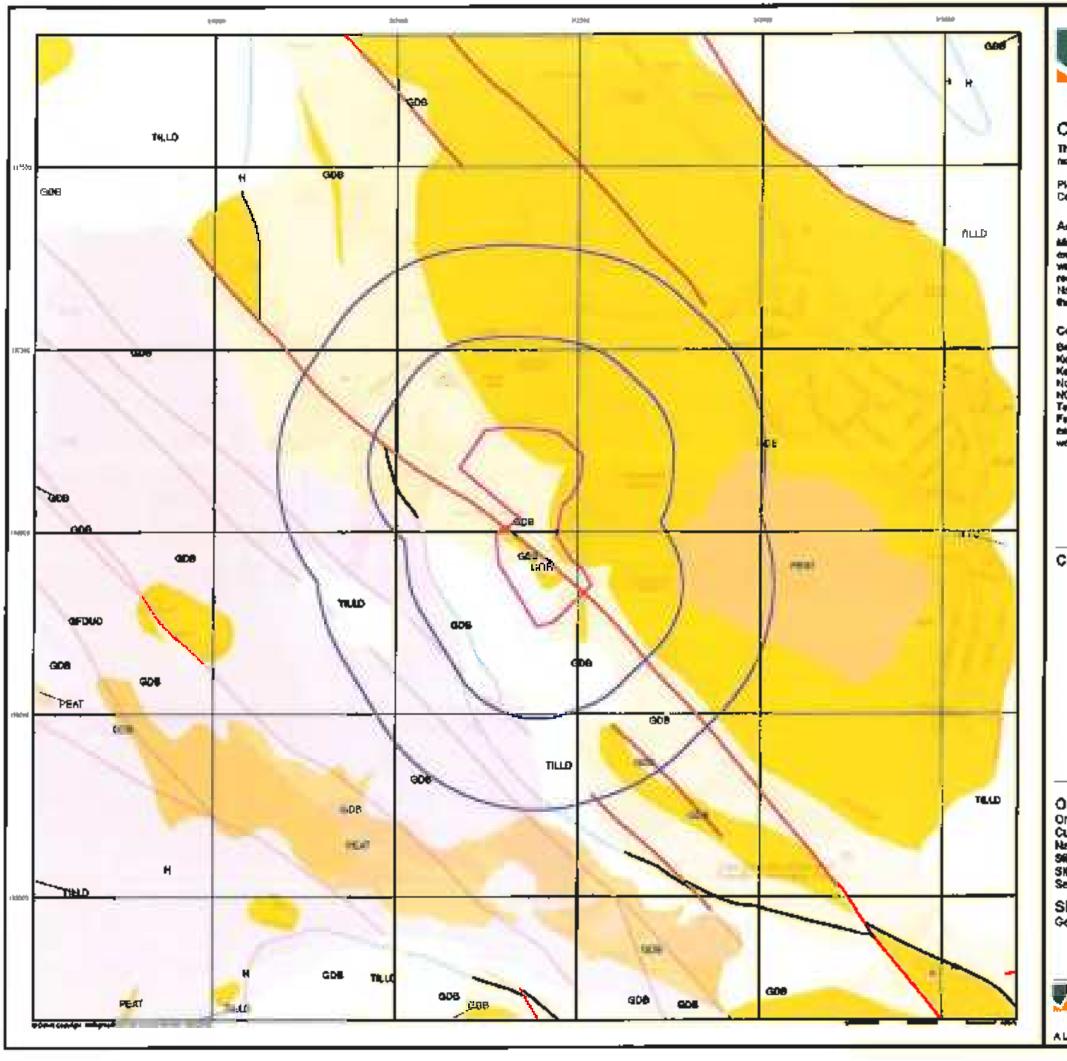
Site Details

Gelligaerwell Uchaf Farm, Gelligaer, Hengoed, CF82 8FY



Tpj Fggg 0844 844 9962 Q844 844 9961 WANN ENVIOLENCE.CO.E.

A Landard's Information Orang Service 142.0 16-Sep-2011 Page 4 of 5





Combined Surface Geology

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

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

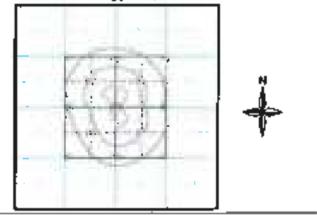
Additional information

Afters information on 1:10,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of reck types can be obtained by interrogating the BGS Exciton of Named Rock Units' Tris database can be accepted by following the Information and Data' tolk on the BGS website.

Contact

British Geological Survey Kingsley Durthern Centre Keyworth Nottinghern NG12 500 Telephone: 0115 936 3143
Fus: 0116 936 3276
email: enquiries@bgu.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details

38063971_1_1 Order Number: Customer Ref: Bryn Q National Grid Referencis: 312360, 196540 Siice:

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

10.87 500

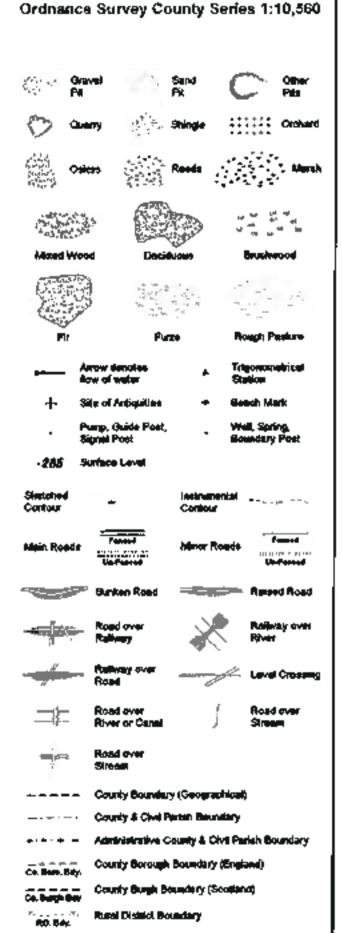
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A Landmore information Group Service V42-0 18-Sep-2011 Page 5 of \$

Historical Mapping Legends



Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chek Pil, Clay Pil or Overry		Gravel Pit
Send FR.		
Refuse or Sing Heap	₫	Lake, Loch or Pond
Duries		Boulders
ネネネ Coniferous Trees	444	Hon-Configurate Trans
Φ Φ Orchard Πn	Sorub	¥µ Coppice
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Administrative Court or County of Chy or County of Chy Headded Screening Our or Obstack to Servering, Sungis or James only atom and Girls Perioh Share offered with	Ng. County Bu Limen or Rust County Counts about the county County to colocione at	Namour Gauge Frough of Olerhot, Reserve
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1;10,000 Raster Mapping

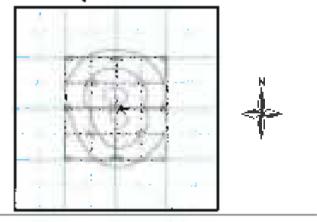
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-12-2-	Boulders	···`•	Boulders (scattered)
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\approx	Send	(M)	Sand Pil
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	General detail		Underground datail
	Overhead delait		řásty rážedy
	Maliferack raifetty		Single track railway
	County boundary (England only)	•••••	Chil, parish or community boundary
	Steirict, Unitary, Metropolitan, London Borough boundary		Constituency boundary
4000	Area of wooded vegetation	497 35	Non-conference Iraes
a	Non-coniferous ireas (contlared)	10 10	Coniferous trees
	Conferous Irees (solitored)	4	Positioned tree
۵¢ ۵ ۵	Orchard	1-0	Copples or Owers
or.	Rough Grassland	JAN	Health
Ur. Or	Sorub	¥4	Marsh, Sali Marsh or Reads
S.	Water feeture	<u>*</u>	Flow erroves
sul-ArryS)	trican tigh water (epringe)	MLMrsi	Mean low water (springe)
	Taleghouse line (where shown)		Electricity transmission line (with police)
# T2H12A	Sensh men: (where shown)	4	Trianguation
	Point feature (e.g. Guide Post or Mile Stone)	ø	Pylon, liere stack or lighting tower
+	Site of (antiquity)	S2000	Glasshowse
	General Building		Important Building



Historical Mapping & Photography included:

Napping Type	- Scale	Date	1Pq
Que mongrandifro	1:10,640	1004	2
Monrage	1;10,640	(696	1
Gramorgeneite	1:10,500	1901	4
Glemorgemeining	1,10,500	1831 - 1972	- 5
Giamorganishin	7:10,640	1900	В
Historical Aerial Photography	1:90,500	1546	7
Glamorgan el-lim	1:10,500	1961	- 0
Ordinates Survey Plan	9116,000	1960	- 5
Cremmon Buryay Phin	1:10,000	1964	1 40
Ordinance Survey Plint	1210,000	1174	, 11
Ordinance Survey Plim	1219,000	1965	12
(OK Reater hingsbru	1:10,000	1994	13
104C Reader Mopping	(:(6,000	2005	14
10K Kester Messins	1:10,000		10

Historical Map - Slice A



Order Details Order Number: 36083971_1_1 **Customer Ref.** Вгуп 🖸 National Grid Reference: 312380, 198540 Site Area (Ha): 10.87

Search Buffer (m): Site Details

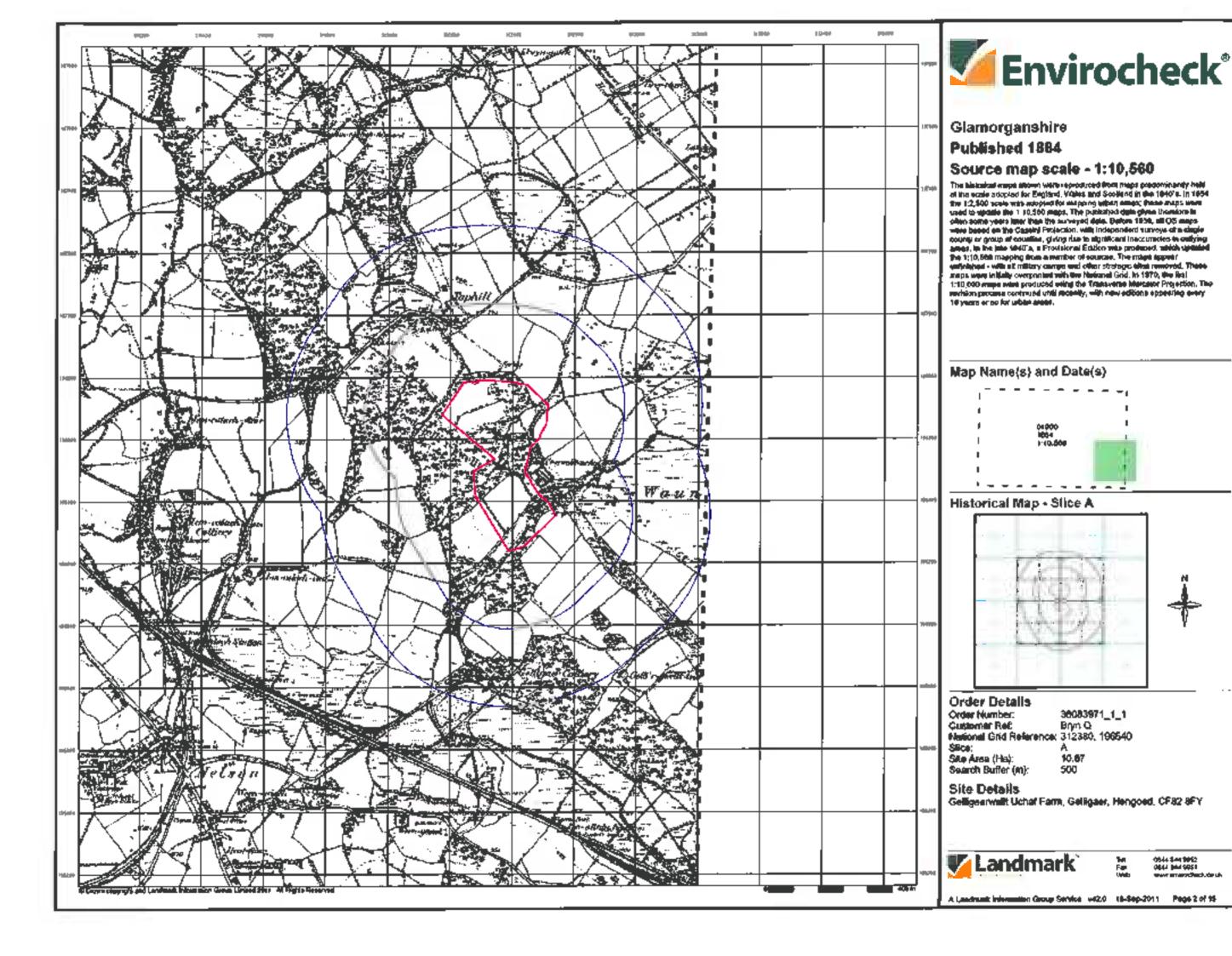
Gallignerwellt Uchaf Farm, Gelligser, Hangood, CF82 8FY

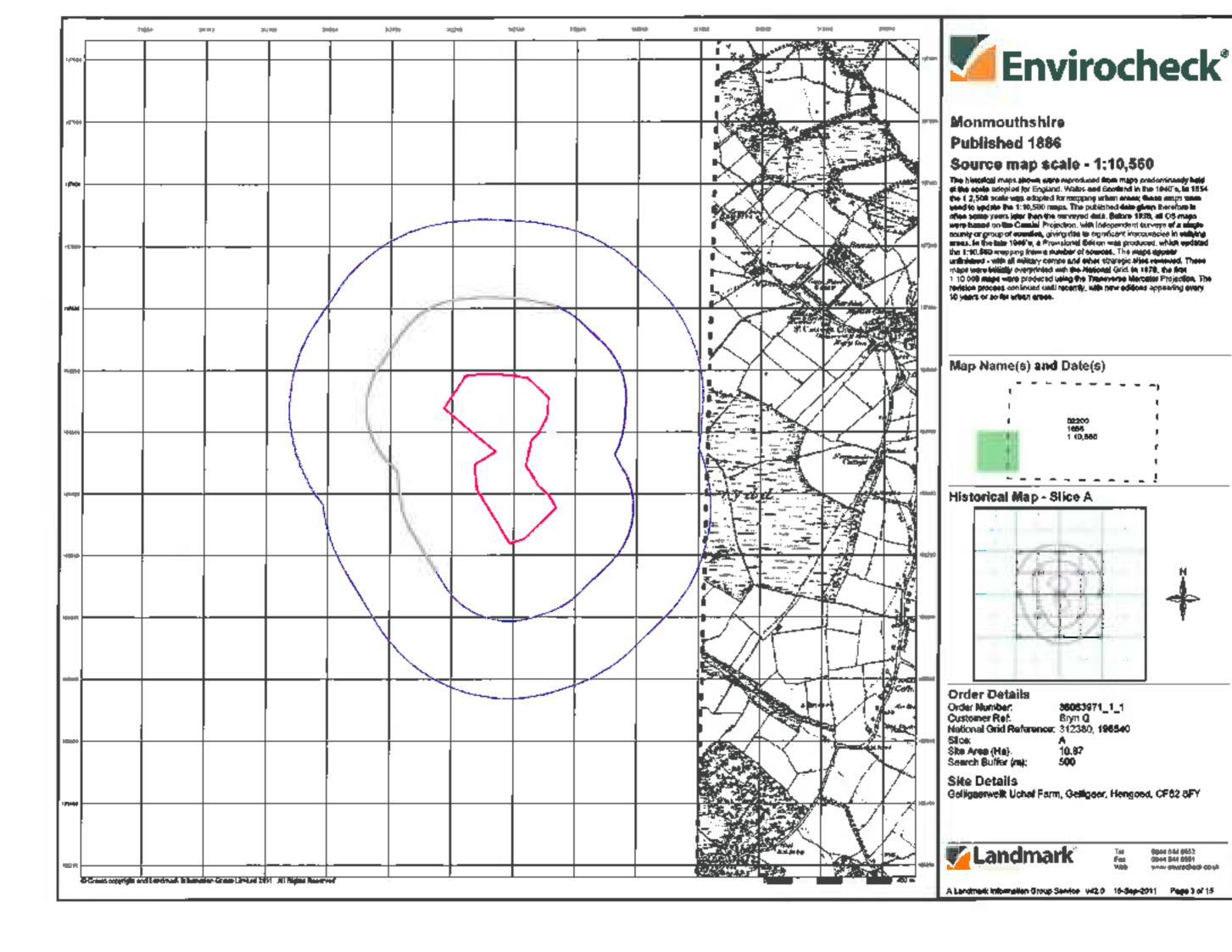
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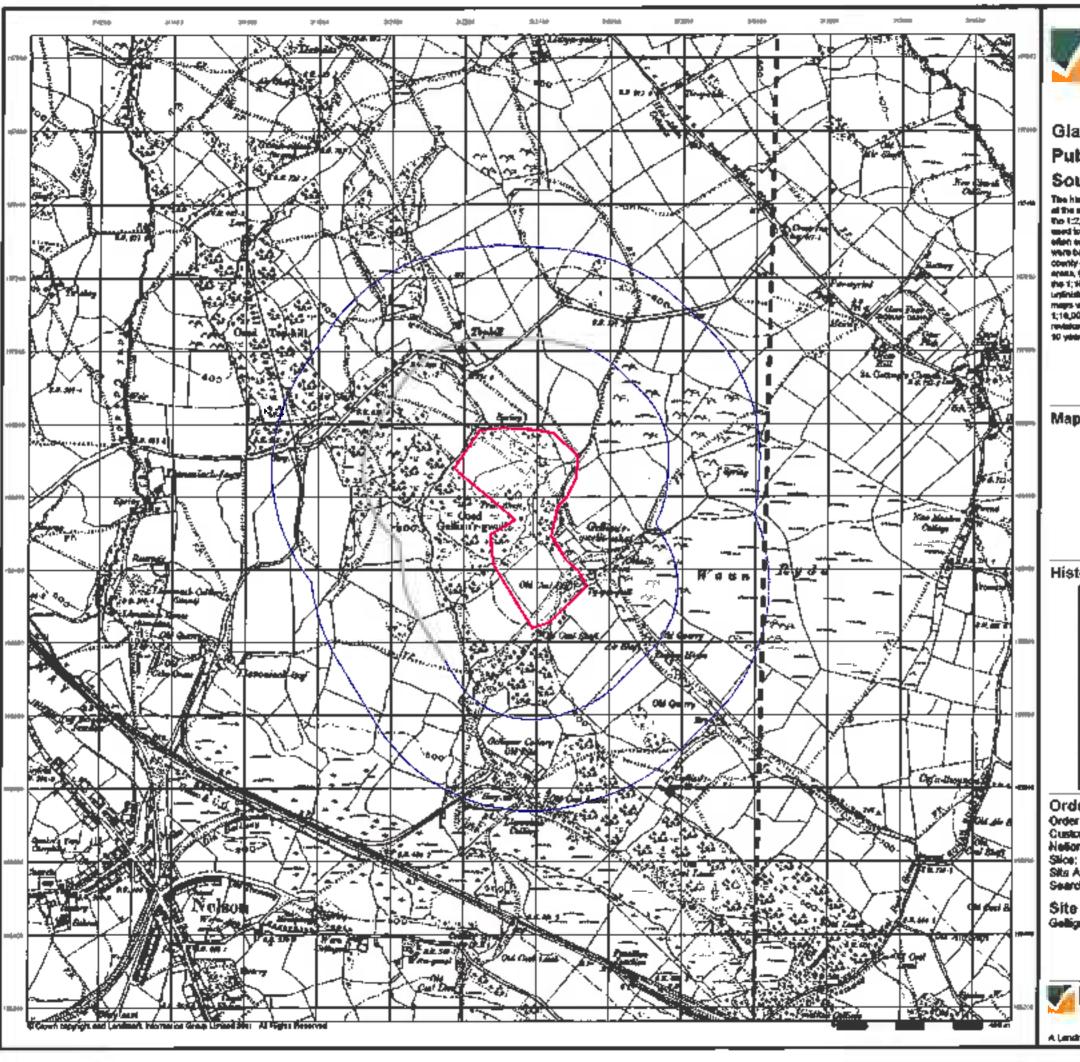


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A Landmark Information Group Service 1920 18-Sup-2011 Page 1 of 16







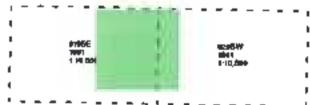


Glamorganshire Published 1901

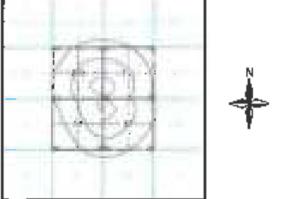
Source map scale - 1:10,660

The historical intensival with reproduced from maps predominantly hold at the scale extepted for England, Weles and Scotlend in the 1646's, in 1654 the 12,800 scale with subspect fill mapping which street, these imposes were under to update the 1:0.500 maps. The published date given there from it effects by the property of the Court of the Scotlend date given there for it effects of group of counties ghing the its sprittent successance is subject openly or group of counties ghing the its sprittent successance. In subject openly of group of counties, ghing the its subject of success in subject openly of group of counties, a Frontieral Edition was produced, which specially its 19,500 mapping from a number of normals. The maps uppear application of all of Roy camps and other strategic state supplies. The first 1,10,000 maps were produced units the Helicont Grot, in 1979, the first 1,10,000 maps were produced units the Helicont Grot, in 1979, the first 1,10,000 maps were produced units recently, with new addition appearing every 10 years or so for whan drives.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 38083971_1_1
Customer Ref: Bryn Q
Netional Grid Reference: 312380, 196540
Silce: A
Sits Area (Ha): 10.67
Search Buffer (m): 500

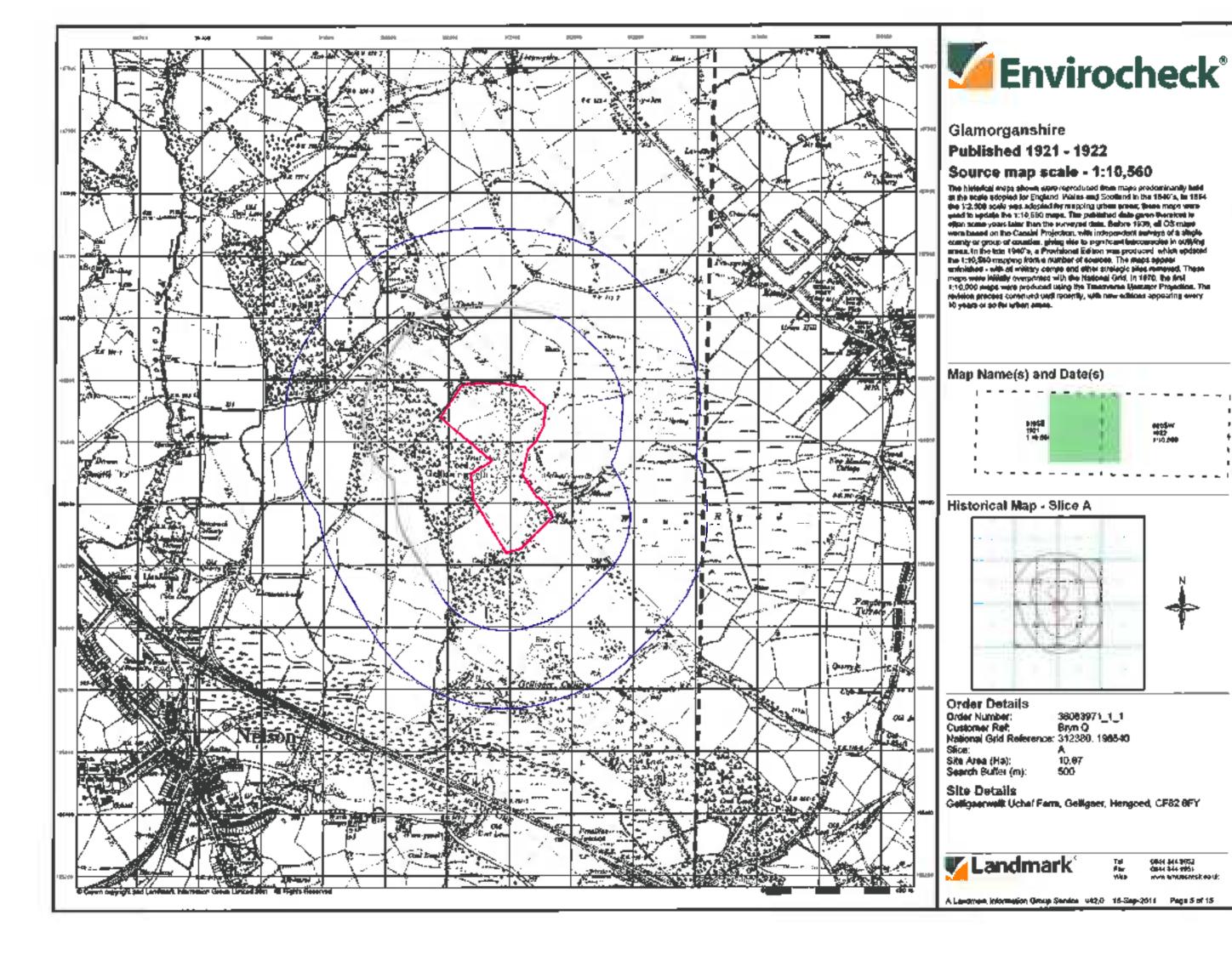
Site Details

Gelligserwellt Uchaf Fame, Gelligaer, Hengoed, CF82 6FY

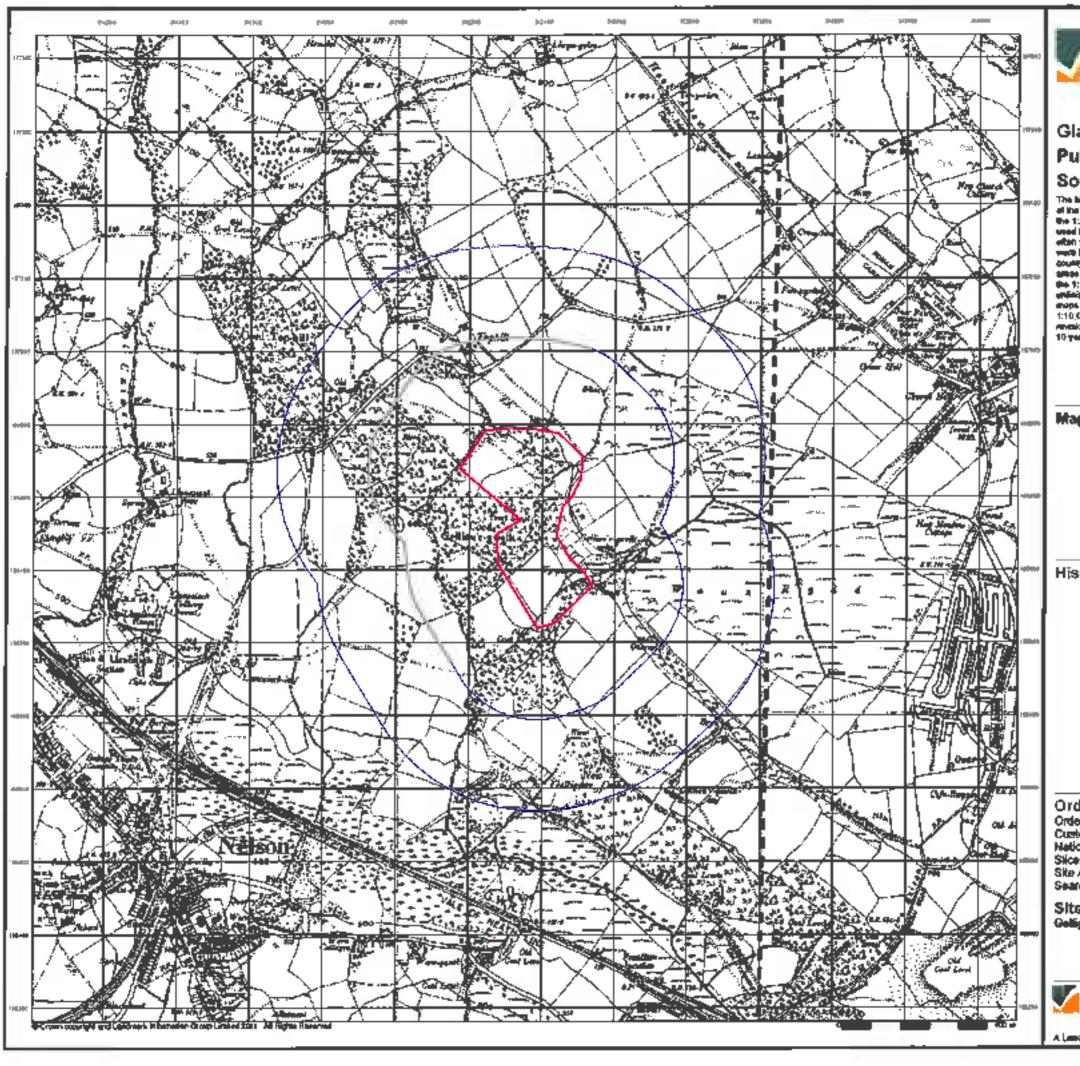


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A Landmark Information Group Bernick 942.0 18-Rep-2011 Page 4 of 15



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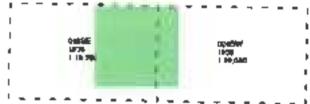




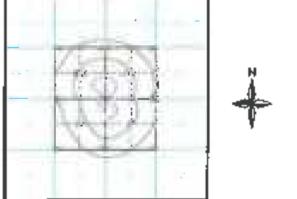
Glamorganshire Published 1938 Source map scale - 1:10,560

The Materical maps allower were reproduced from maps predominately held at the enails adopted for England, Water and Scotland in the 1040's. In 1854 the 104,800 scote was adopted for exapping within etails. Show right water week to update the 1,0,540 water. The published date given therefore its effort was less than the surveyer glass. Before (938, all OS maps were beand on the Casalini Projection with independent surveys of a single downly or group of coursion, gisting rise to algorithm of incourses as in outplug gape. In the last 940's, a Provinces of Eddon was produced, which quite indicates the place of the 110,55th mapping from a member of neutron. The maps appear group allow transportation of the strategic alice several. These maps were intiguity overprinted with the National Soid, in 1670, the first 1:10,000 maps were produced using the Transverse Marcatar Projection. The execution presents occitived until secondry, with they addition opporting evelty 10 years or so for under accide.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 36063971_1_1
Customer Ref: Bryn Q
National Grid Reference: 312380, 196540
Silce: A
Site Area (Ha): 10.87
Search Buller (m): 500

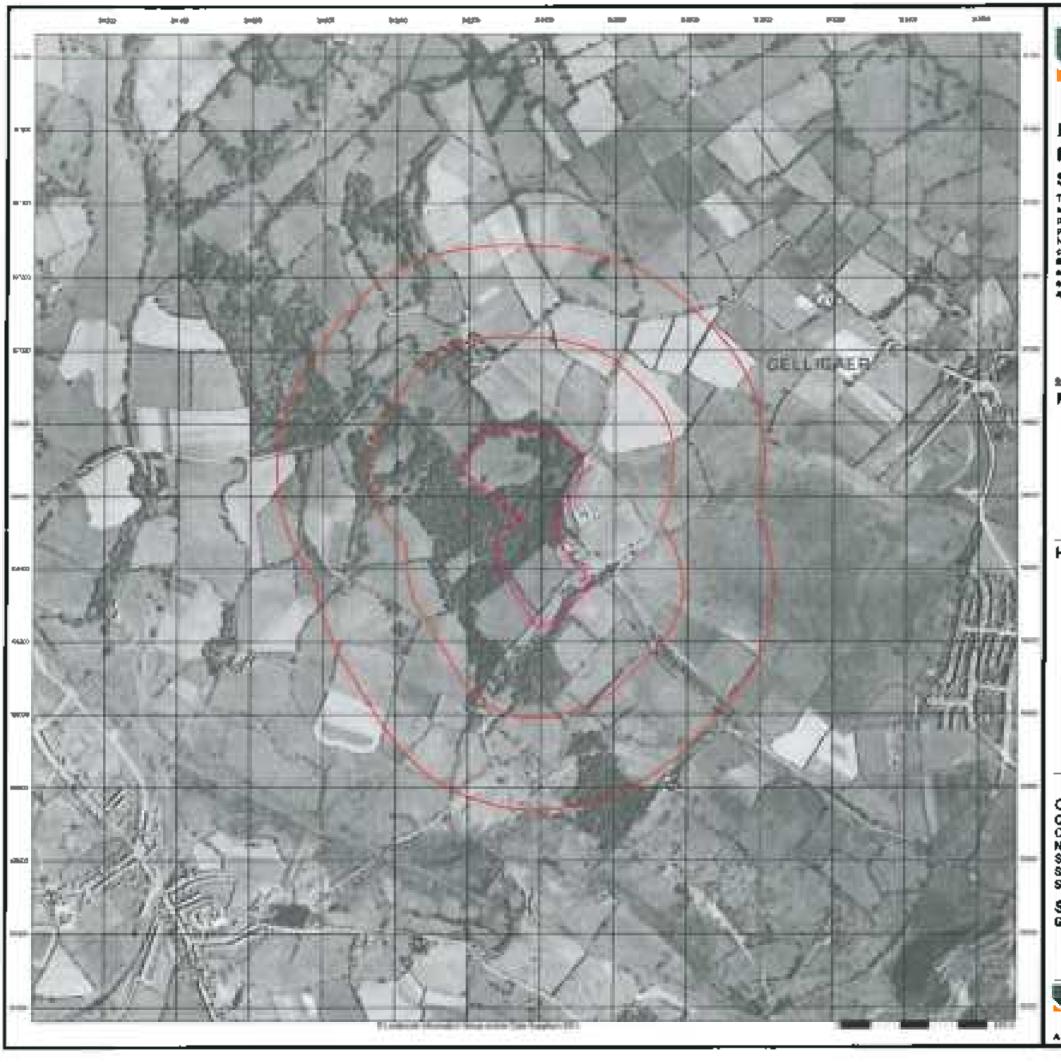
Site Details

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A Landmark Information Group Service v42.0 (8-Sep-2011 Page 8 of 15





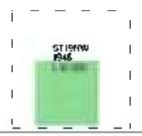
Historical Aerial Photography Published 1945

Source map scale - 1:10,560

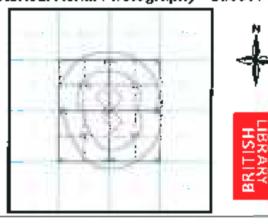
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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

Order Number: 36063971_1_1
Customer Ref: Bryn Q
National Grid Reference: 312360, 196640

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Site Area (Ha): 10.87 Search Buller (m): 500

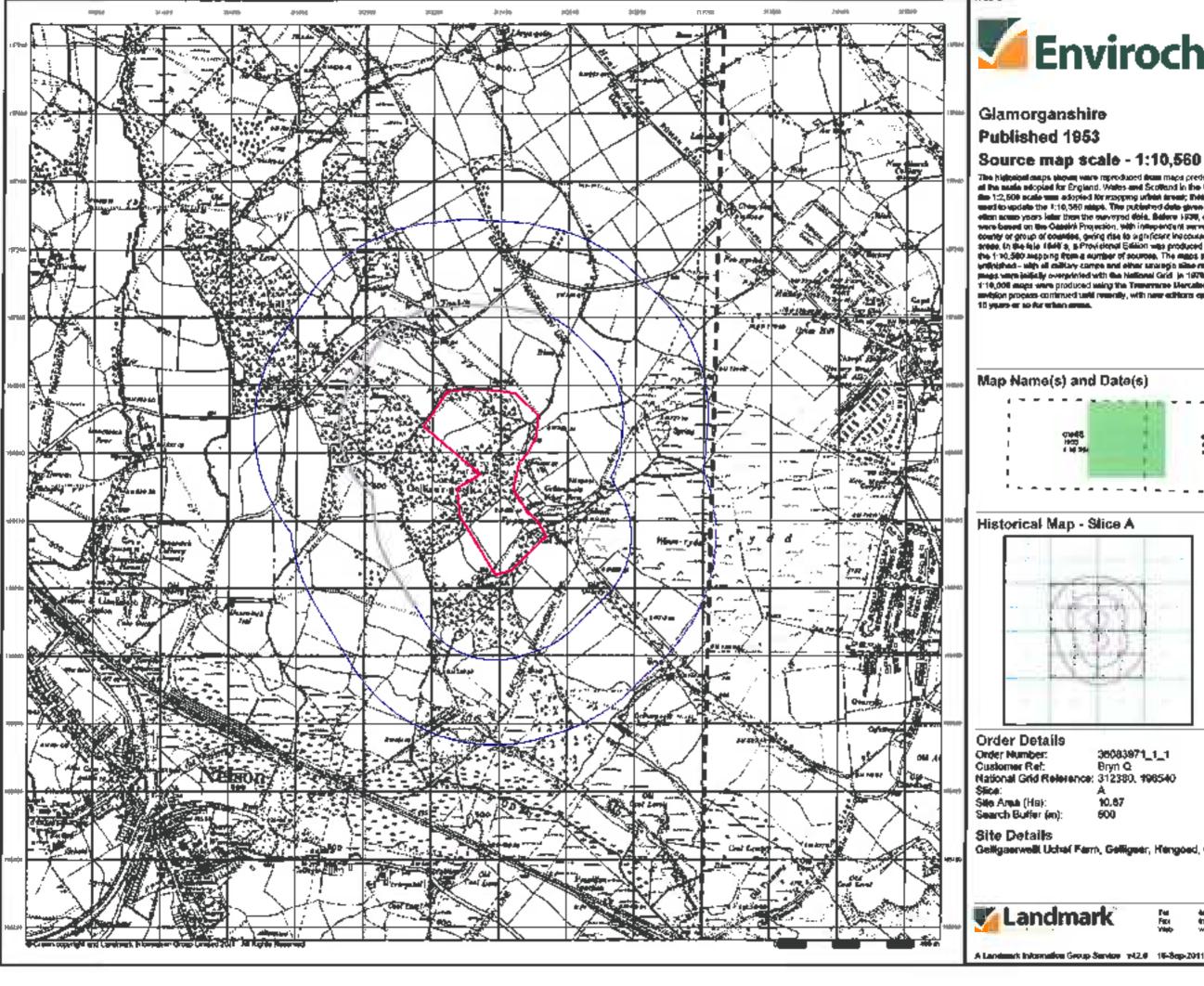
Site Details

Gelligaerwellt Uchef Farm, Gelligaer, Hengoed, CF82 BFY



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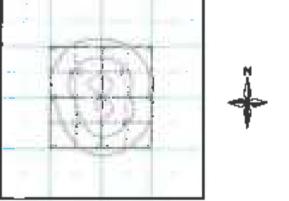
A Landmark information Group Service, vol.2.0 18-Sep-2011 Page 7 of 15





The highest maps, shown were reproduced from maps predominantly held at the scale adopted for England, Water and Scotland in the 1940's. In 1964 the 1:2,500 scale was adopted for exopping which breat; these maps which would be update the 1:10,550 ships. The published date given therefore is etten acute years later than the mayored dole, flaters in 199, all OS major were besend on the Catalife Projection, with interpendent serveys of a single country or group of countries, guing rise to agreement in occurance in outlying areas. In the falls if field a, a Provisional Edition was produced which updated areas, in the tale fleet a, is Provident Edition was produced which updated the 1-10.560 support from a number of sources. The maps separal propriet with the source interest since removed. These maps were judgely overprised with the historial Grid in 1976, the limit 1-10,000 maps were produced using the Transmiss Hercaler Projection. The motion propess communical until removing, with new editions appearing every 10 years or to for when areas.

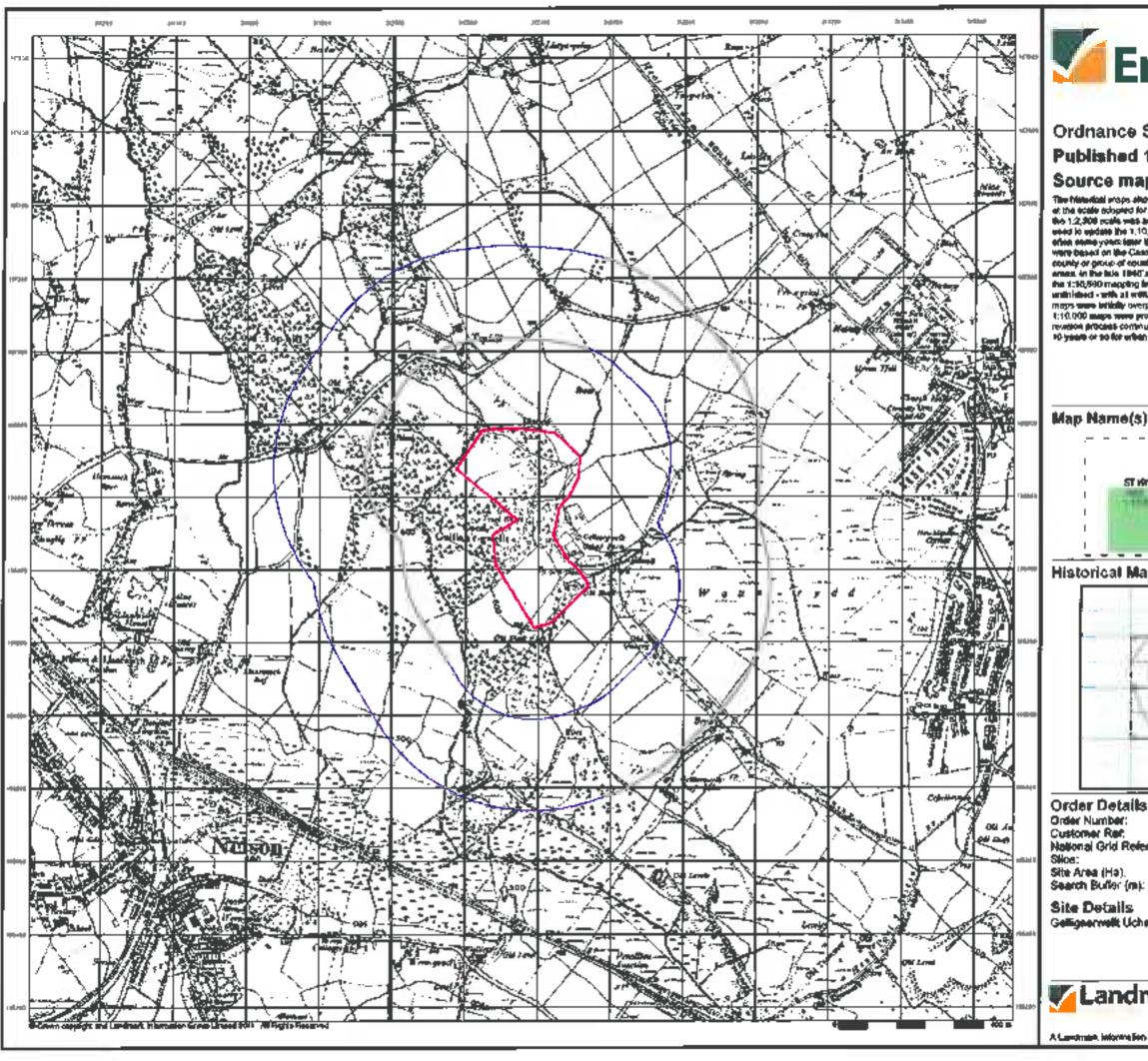




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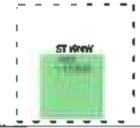


Ordnance Survey Plan Published 1960

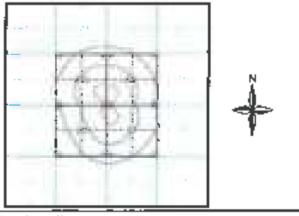
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 36063971_1_1 Customer Ref. Bryn Q National Grid Reference: 312380, 198540 Site Area (Ha). 10,87 500

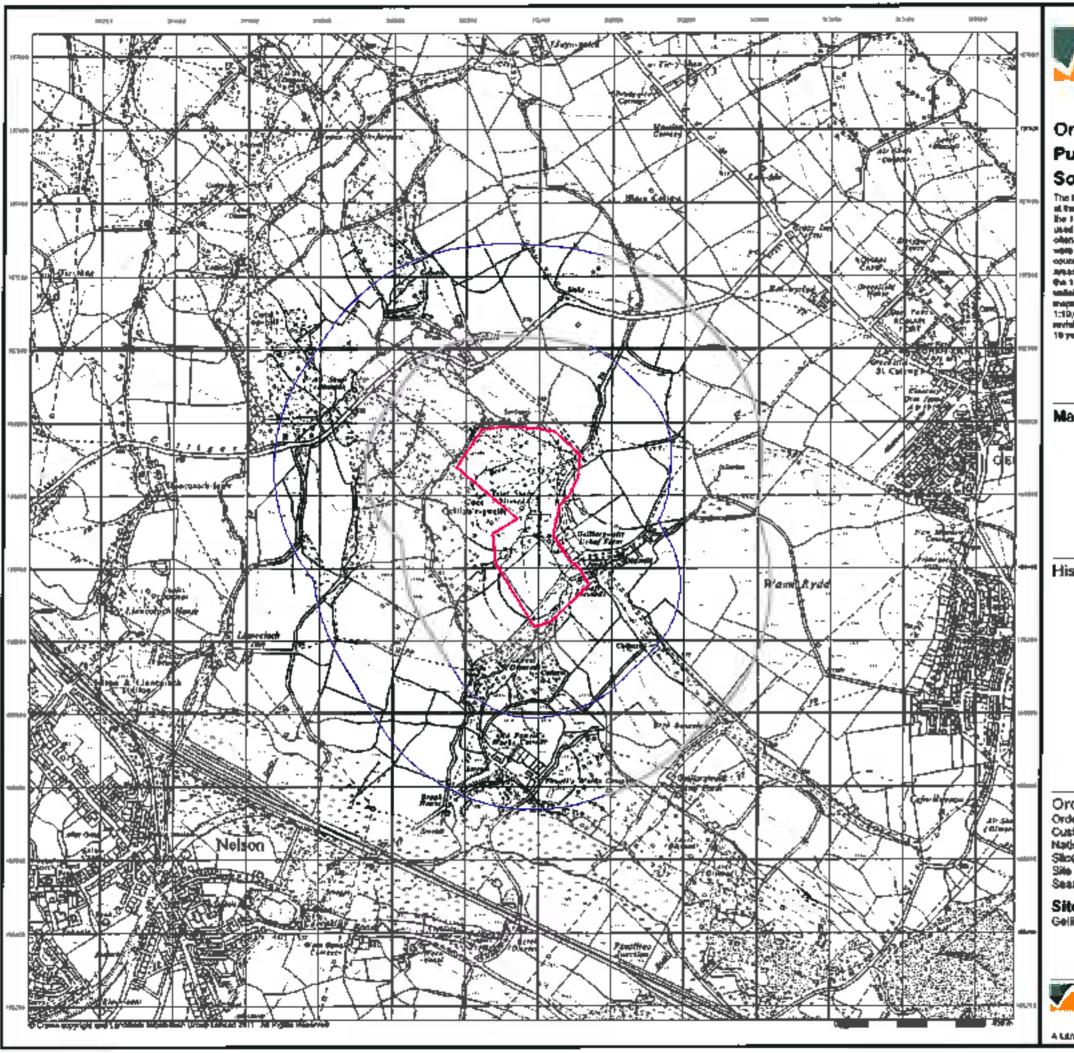
Site Details

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A Landman Information Group Service, Vol2.0 18-Sep-2011 Page 9 of 15



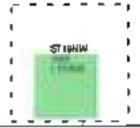


Ordnance Survey Plan Published 1965

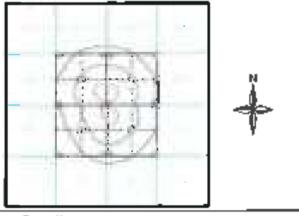
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 36083971_1_1 Customer Ref: Bryn Q National Grid Reference: 312380, 196540 10.87

Site Area (Ha): Search Buffer (m): 500

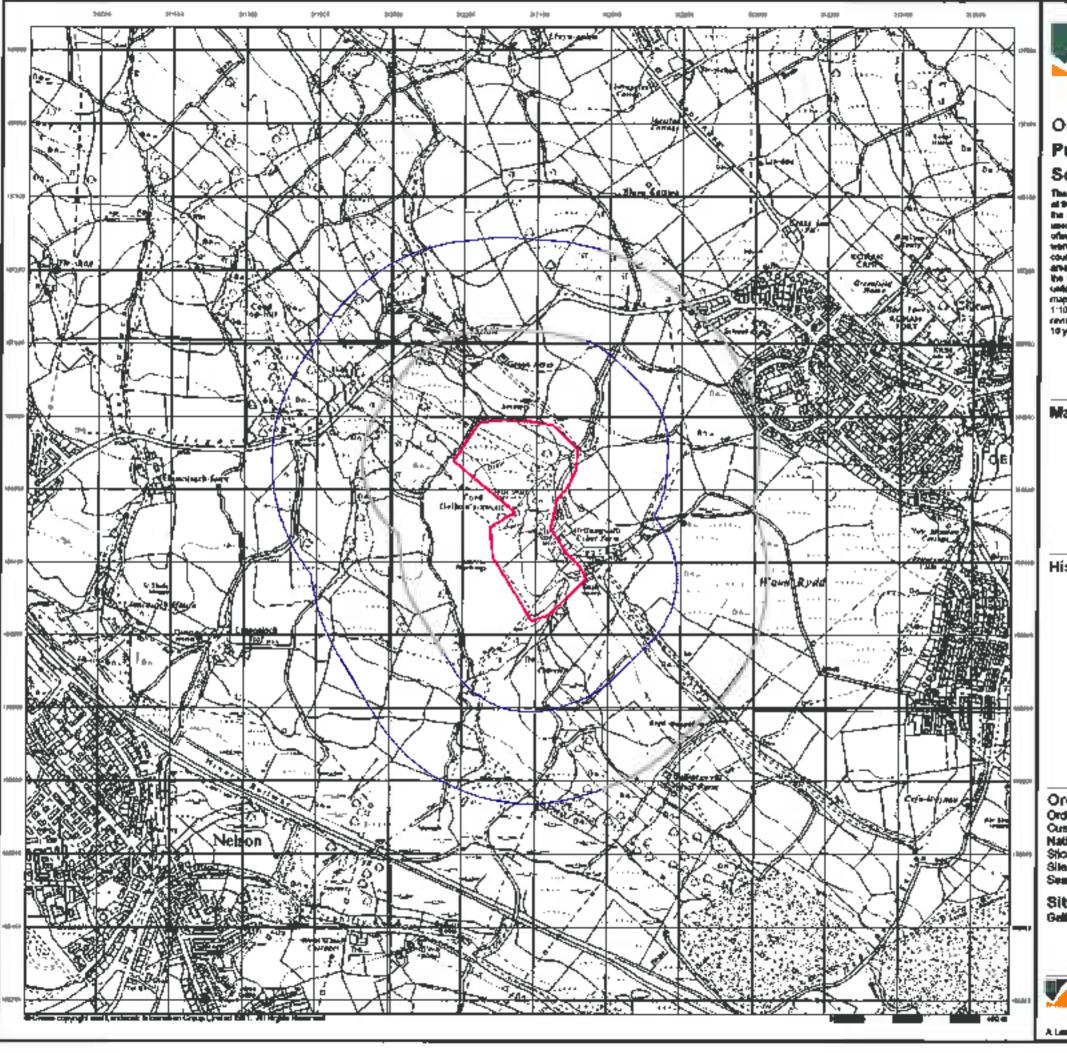
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Gelfigaerwelli Uchaf Farm, Gelfigaer, Hengoed, CF62 9FY



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A Landmark Information Group Service wild.9 16-Sep-2011 Page 10-ol 15





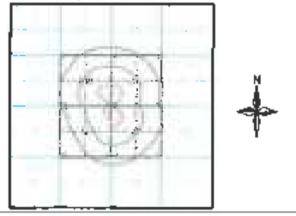
Ordnance Survey Plan Published 1974 Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number; 36063971_1_1 Customer Ref: Bryn Q National Grid Reference: 312380, 196840 Size

Sile Area (Ha): 10.87 Search Buffer (m): 500

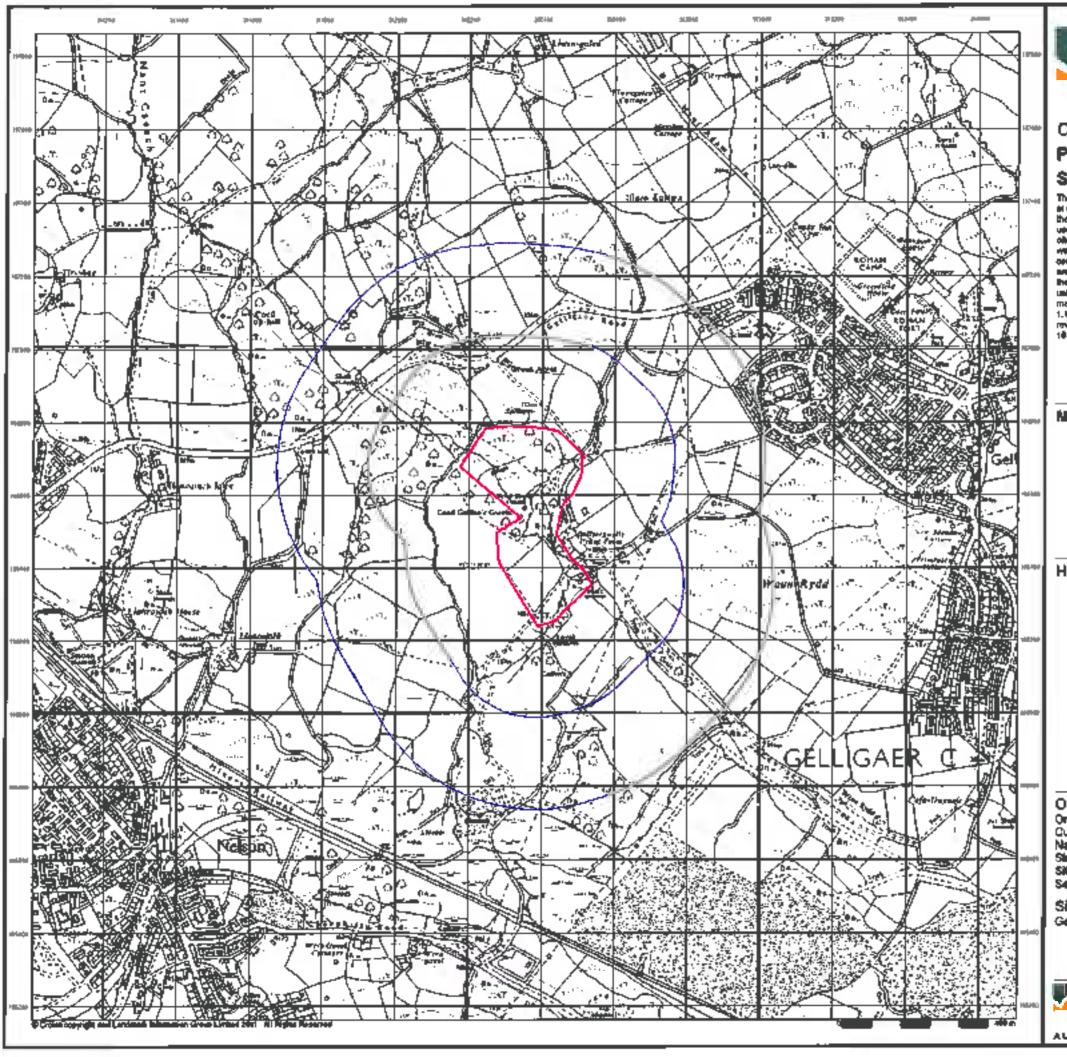
Site Details

Galligaerwellt Uchaf Farm, Gelligaer, Hengoed, CF82 BFY



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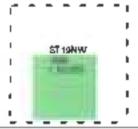


Ordnance Survey Plan Published 1986

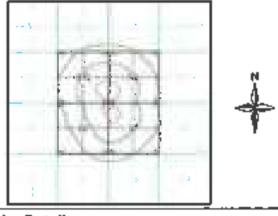
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 36083971_1_1
Customer Ref: Bryn Q
National Grid Reference: 312380, 196540

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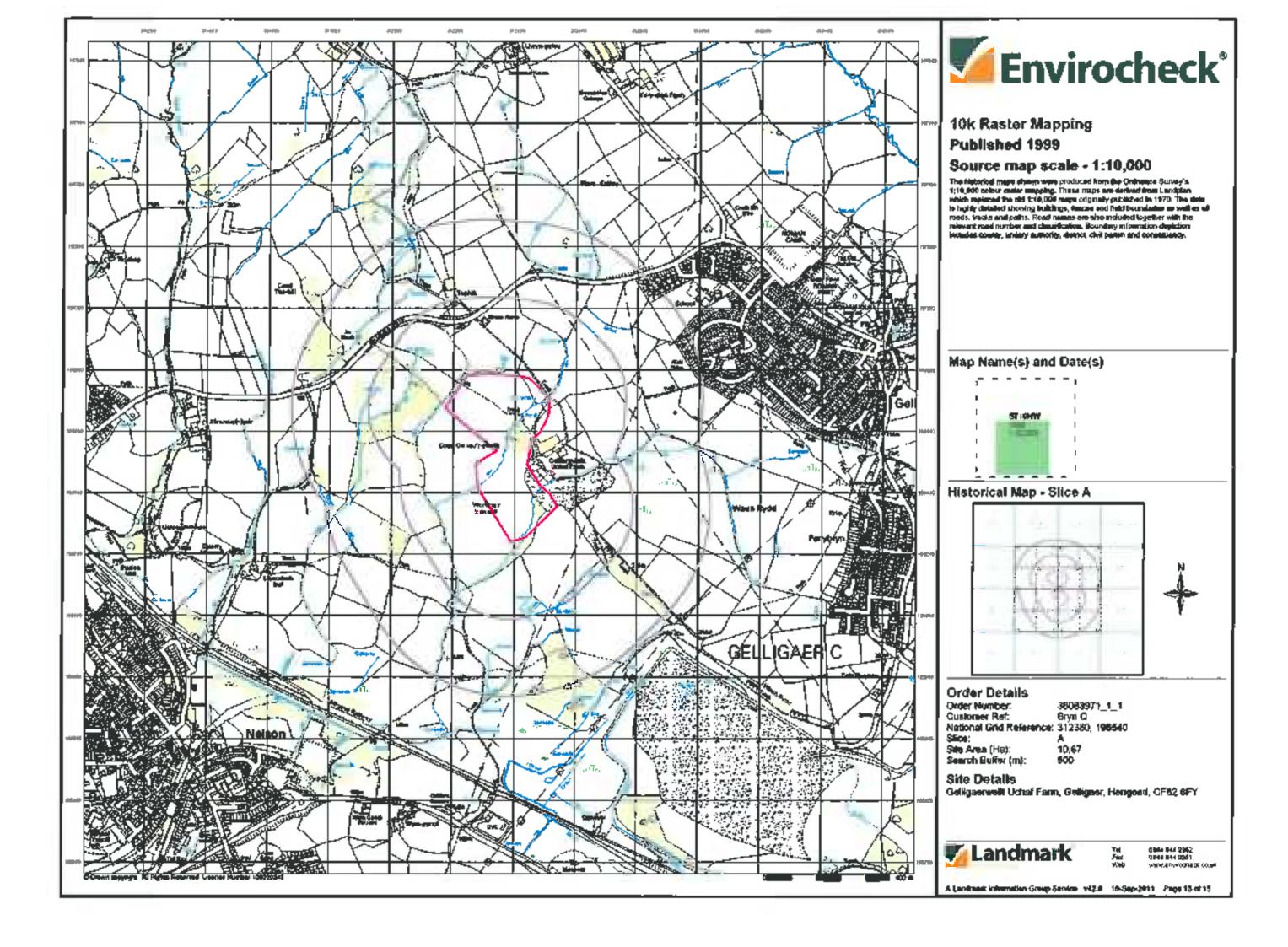
Site Area (Ha): 10.87 Search Buffer (m). 500

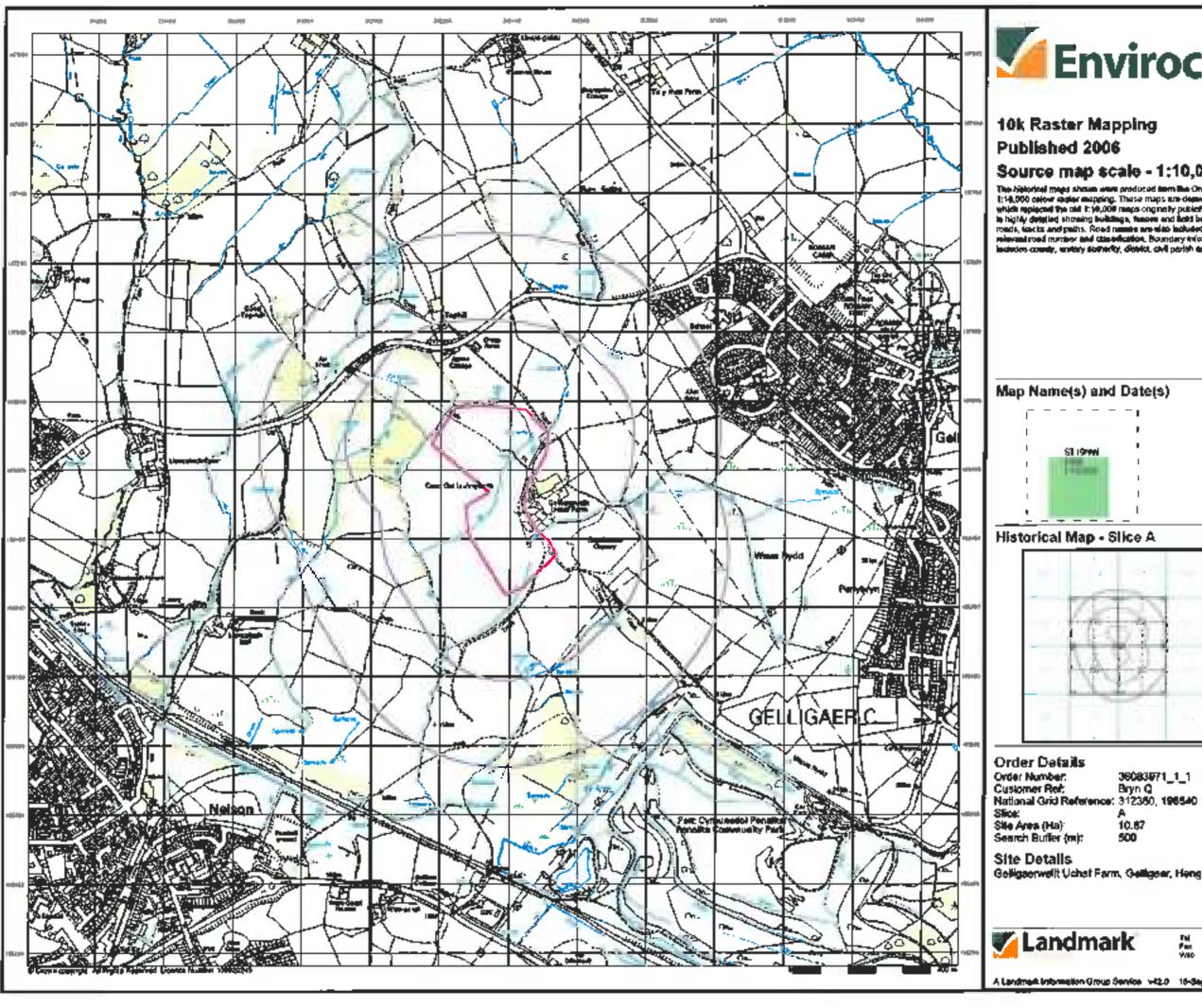
Site Details

Gelligaerwellt Uchaf Farm, Gelligeer, Hengoett, CF82 8FY



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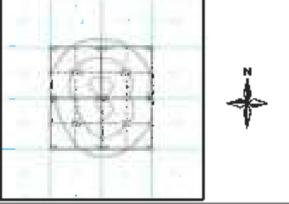






Source map scale - 1:10,000

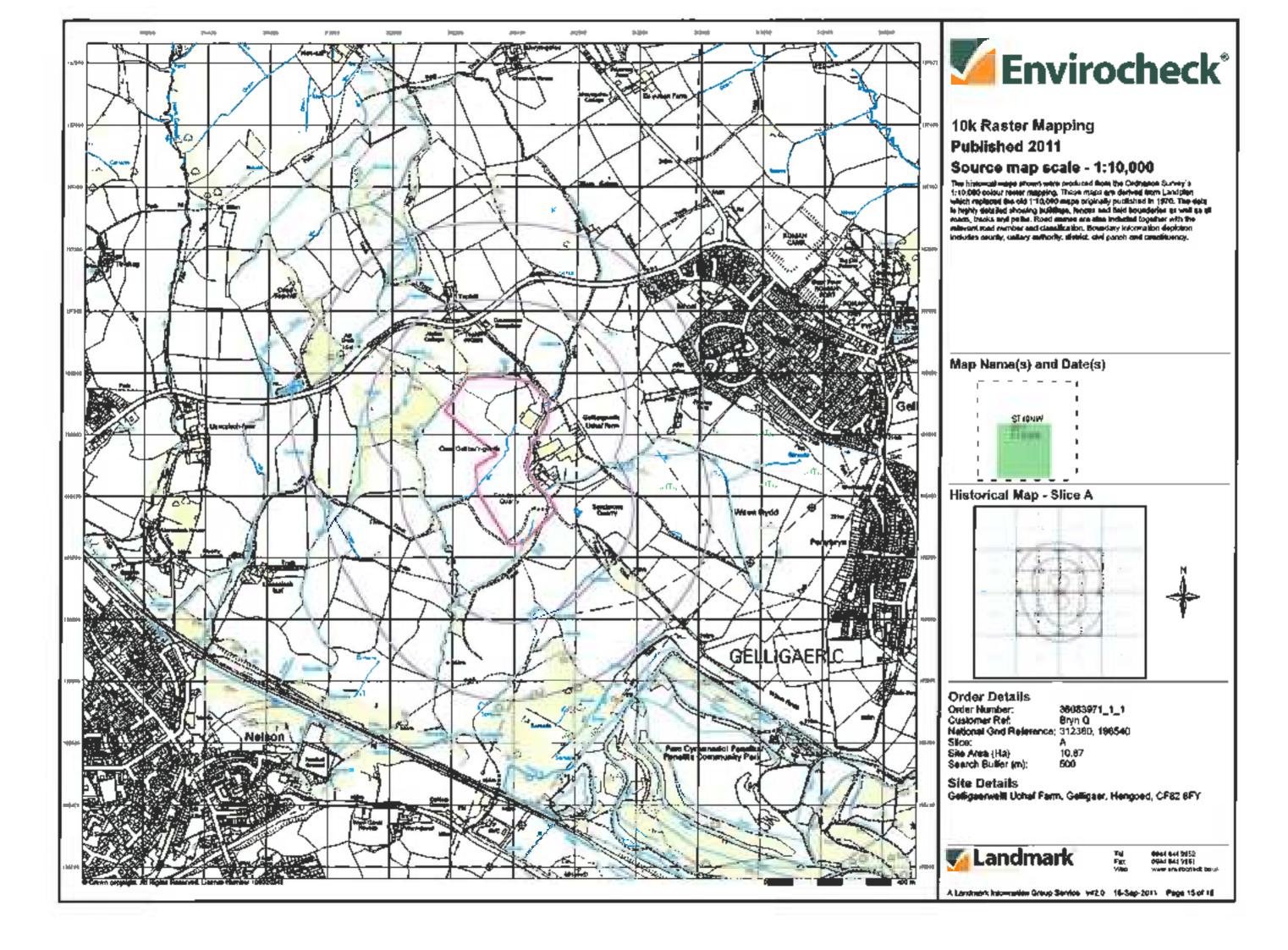
The highertest maps shown were produced from the Ordnance Survey's 1:14,000 colour system mapping. These maps are depined from Landplan which replaced the old 1:14,000 maps on greatly published in 1970. The date is highly despited showing buildings, hances and field bournishes as well as all reads, fancts and paths. Road numbers are also included logistics with the relevant road number and consistent, Boundary information depiction includes country, writery softwartly, depicts only paths and constituency.

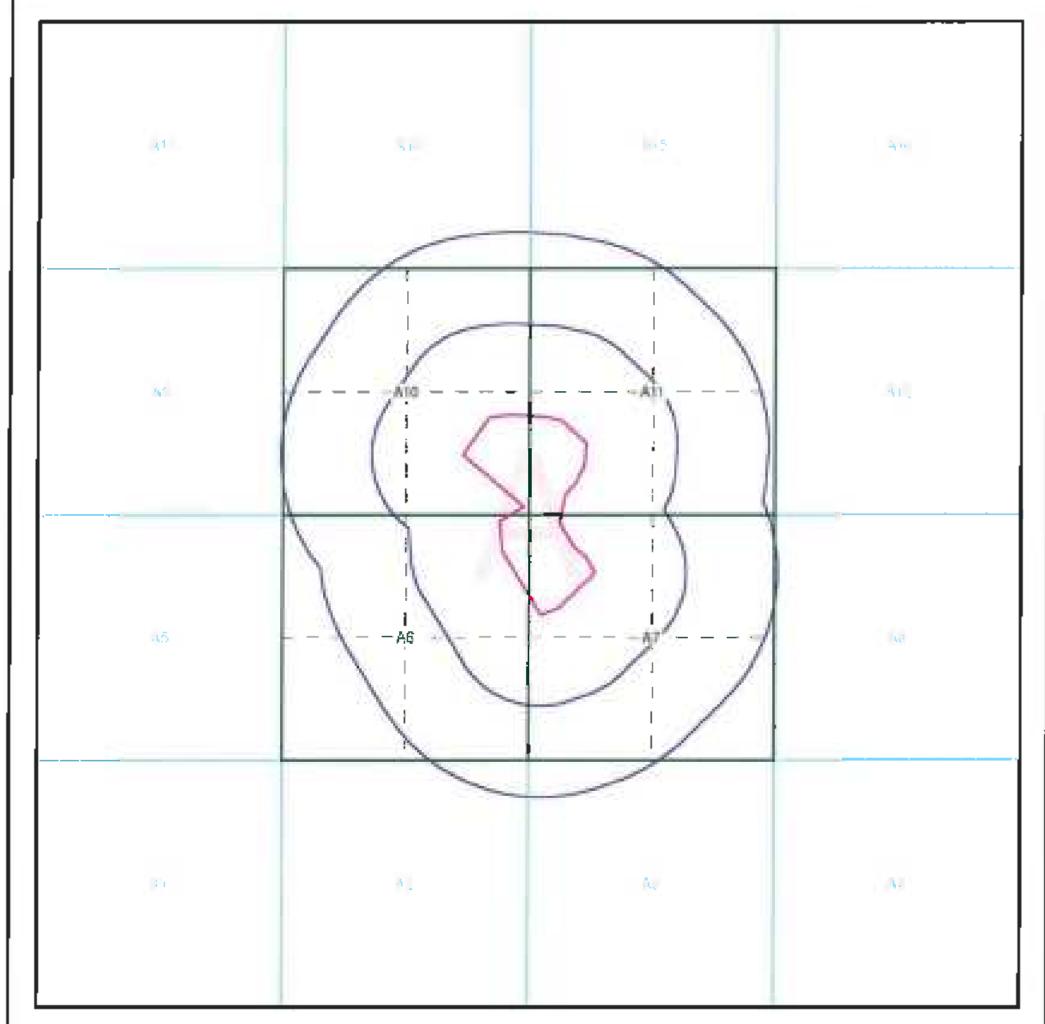


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Index Map

For ease of identification, your site and butter have been spit into Silcas, Segments and Quadrants. These are illustrated on the lactus Map apposite and explained further below.

&lice
Each effice represents a 1;14,000 pint area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of anvent allose (impressived by a red sudine), that are referenced by faters of the alphabet, starting from the bottom left occurred the albo "grid". This grid does not retain to National Grid lines but in designed to give host ift over the site and buffer.

Degreed
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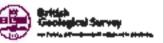
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35 and are referenced in the detachest to allow behave to be quickly located on plain. Therefore a feeture that how a quarterist reference of APTEN will be in Alice A, Segment 7 and the MAY Catalogue.

A salusion of organisations also provide data within this report.











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Prepared For Boyn Quarry and Bryn Compost Golfarovrollt Uchaf Gelligeer Camphilly CF82 8PY

Client Details

Mr J Perkins, John Perkins Consulting Engineer, Bronhaut. Abergant Road, Aberdare, RCT, CF44 0PY

Order Details

Order Number, 36083971 1 1 Customer Ref: Bryn 🚨 National Grid Reference: 312370, 198650 Site Area (Ha): Search Buffer (m): 10.87 500

Site Details

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