

PROPOSED DEVELOPMENT AT YSGOL GYFUN YSTALYFERA SCHOOL, PHASE III SCHEME

PRELIMINARY RISK ASSESSMENT / DESK STUDY

Report No. Q022/PRA

March 2020

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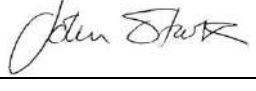
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FOREWORD

The following Conditions and Notes on Site Investigation Procedures should be read in conjunction with this report.

The recommendations made and opinions expressed in the report are based upon the study of historical Ordnance Survey maps of the area, landmark® reports, and Geological maps where available.

Where other plan sources, borehole records from adjacent sites and published data are considered, these are specifically referred to in the text.

We regret that no responsibility can be held for conditions, which have not been revealed by the sources referred to. Whilst the report may suggest the likely configuration of strata below the site, this is only indicative and no liability can be accepted for its accuracy.

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1. INTRODUCTION

1.1. General

Upon the instructions of Bingham Hall Partnership Ltd (the Client) on behalf of Andrew Scott Ltd (Principle Contractor); Quantum Geotechnic Ltd (QGL) has been commissioned to undertake a desk based Phase I Preliminary Risk Assessment of land quality for the proposed construction of a new replacement school building block located within the existing school premises of Ysgol Gyfun Ystalyfera in the borough of Neath Port Talbot. The instruction to proceed with this desk study was received in March 2020.

This Phase III development follows the completion of both the Phase I and II works which involved the construction of a large multi storey school buildings in 2016 and 2018. The Phase I and II developments are located in the southern area of the school premises, adjacent to the proposed Phase III development.

The Phase III works will entail the demolition of existing school building and replacement with a new school building. In addition, works will be undertaken on a currently disused area of the playing field to allow its re-use as part of the playing field, located to the west of the River Twrch.

This Preliminary Risk Assessment Report presents an assessment of both geotechnical and environmental ground conditions as revealed from the referenced searches, to provide information on any potential risks or hazards that may be posed to development of the site. The information upon which this desk study is based has been acquired from a previous study in relation to the Phase I Scheme, undertaken by Jacobs in December 2013 (Report Reference; B1844758/01/R1). The information contained within this earlier study may be applied to the Phase III development due to the close proximity of the two schemes and the fact that the search radii of the previous environmental, geotechnical, coal mining and historical searches cover the proposed development site.

The following sources of information have been used;

- 'Land Adjacent to Ystalyfera School Geo-Environmental Desk Study, Jacobs, December 2013, Report Reference; B1844758/01/R1
- Site specific Landmark Envirocheck Report, Order Number 48340556_1_1
- Ordnance Survey Historical Map Collection
- Published Geological Map for the area: British Geological Survey Sheet SN70NE at 1:10,560 scale
- Radon, Guidance on protective measures for new buildings (BRE Press, 2015)
- Environment Agency Maps Website
- British Geological Survey, Geology of Britain website
- Coal Authority Interactive Mapping website

- Coal Authority Report, dated 25th March 2020, Reference 51002260114001

1.2. Objectives and Scope of Work

1.2.1. Objectives

The objectives of this report are to provide a preliminary assessment of the land quality and past usage to assess the likely geotechnical and geo-environmental characteristics, which could have an impact on the development and long-term viability of the site.

The main objectives are:

- To provide an early indication of possible land quality issues that could impact on the development proposals;
- To provide a guide to decision making;
- Enable an adequate ground investigation design to be undertaken.

1.2.2. Scope of Work

The general Scope of Work undertaken in the preparation of this assessment was as follows:

- The collation of archival and recent information relating to the geological, geotechnical and geo-environmental conditions at the site;
- Undertake a review of the information obtained which included historical and recent survey maps, geological maps and environmental information;
- Provision of a preliminary appraisal of the data and identification of ground conditions that could potentially impact on the proposed development;
- Produce a conceptual model of the site detailing any potential contamination source pathways and receptors identified.

General notes on the techniques employed by Quantum Geotechnic are described in the Foreword together with the limitations inherent in this type of work.

2. THE SITE

2.1. Site Description

The proposed Phase III development building forms part of the existing Ysgol Gyfun Ystalyfera school and at the time of writing was occupied by a single storey brickwork school building surrounded by concrete and asphalt hardstanding. This present site does not exhibit any soft landscaped areas.

The National Grid reference for the centre of the Phase III site is 277066, 208839 and covers an approximate area of 65m x 25m.

Drawing reference YGY-BHP-XX-XX-DR-C-(SK)002 is an outline proposal drawing of the new building overlain on the existing site and is presented within Appendix I for ease of reference.

The development site is located in the western area of the school premises, the school is bounded to the immediate west by Ynisdarren Road, which is also used as the access point for this part of the school and the development/ construction works.

The completed Phase I school building lies to the immediate south of the site whilst the Phase II school development site lies to the south east.

The River Twrch is situated 95m east of the Phase III development site on the eastern side of Glanyrafon Road. The river flows north-south and converges with the River Tawe 350m south of site. Along with the playing field, lands on the eastern side of the River Twrch are predominantly farmlands with a water treatment works 200m east.

The playing field to the east of the river currently exist as a level grassed area.

The National Grid reference for the centre of the playing field is 277289, 208844 and covers an approximate area of 210m x 110m.

An aerial photograph of the site (dated 2020) is presented over page and shows the Phase I school building to the west under construction.

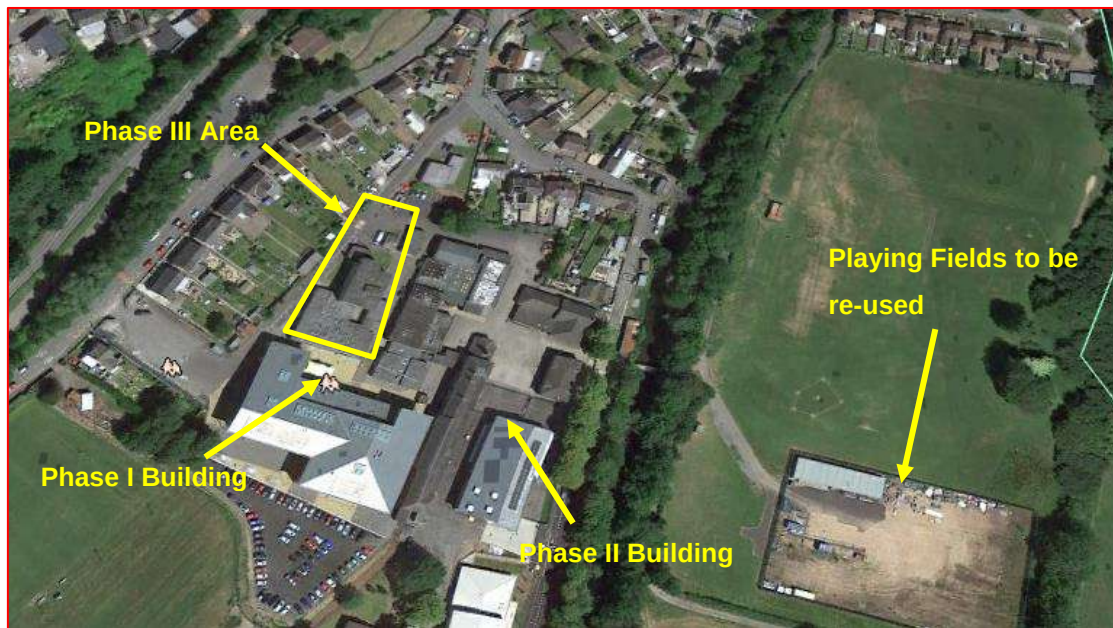


Figure 1: Aerial photograph of existing school premises (dated 2020)

A general site location plan is included in Appendix I of this Report. The nearest postcode close to the site is SA9 2JJ.

The site has not been visited as part of the desk study assessment.

2.2. Previous Investigations

The following investigations have been undertaken for the Phase I and Phase II developments within the school grounds:

Phase I Development

Jacobs (2013) Land Adjacent to Ystalyfera School Geotechnical and Geo-Environmental Desk Study, Ref: B1844758/01/R1

Geotechnical Conclusions of the Report:

Moderate risk of voided / broke ground and surface settlement associated with the presence of a fault line in within the site boundary and the close proximity of the Tawe Valley Disturbance

Geoenvironmental Conclusions of the Report:

The potential risk of pollution linkages was summarised overall as moderate / low with the key drivers being:

- Potential for groundwater contamination from off-site sources to impact the soils and groundwater beneath the site
- Potential for ground gas migration from off-site sources to lead to the accumulation of gas that may impact on human health or buildings on the site

Environmental Scientific Group (2014) Ysgol Gyfun, Ystalyfera, Nr Swansea Factual and Interpretative Report on Ground Investigation, Report No: H4011-14/2

Ground conditions comprised Topsoil or Made Ground to depths of between 0.2 and 1.2mbgl overlying a thin layer of Alluvium, overlying Glaciofluvial Deposits, the base of which was proven to be at depths of between 9.1 and 18.7mbgl. A thin coal seam 0.1m thick at rockhead was recorded within one rotary borehole and a 1.82m thick coal seam at a depth of 31.6mbgl was encountered in a second borehole drilled close to the south western corner of the proposed Phase III development.

Geotechnical Conclusions of the Report:

The Glaciofluvial deposits were identified as being a suitable founding strata for the development

Geo-environmental Conclusions of the Report:

From the samples tested, a single sample contained Benzo(a)pyrene above the relevant assessment criteria, however the risk to site users from contamination on site was considered to be generally low and, consequently, remedial action is not considered necessary. The risk to controlled waters was also considered low.

Gas monitoring undertaken identifies the site as being Characteristic Situation 2.

Phase II Development

Quantum Geotechnical Limited (2017), Proposed Development at Ysgol Gyfun Ystalyfera School, Phase II Scheme. Preliminary Risk Assessment / Desk Study. G40035/PRA

Geotechnical Conclusions of the Report:

- The Geological maps for the area indicate superficial deposits comprising Alluvium and Glacial Fluvial soils. Whilst no made ground is mapped there may well be a thin mantling expected from the original construction of the school at the turn of the 20th century.
- The solid geology of the site is indicated to be Mudstones, Siltstones and Sandstones, with possible coal seams from the South Wales Coal Measures of Carboniferous age.
- There is a nearby fault line, Tawe Valley Disturbance, within the vicinity of the site however, this is not considered to pose a risk to the site.
- The site lies in an area of former coal mining. The site specific mining report indicates workings to be at depth (minimum of 70m) with any related movement having stopped by now. No mine entries have been recorded. The geological map review concurs with this and the risk from former shallow

coal mining is considered low.

- The site is highlighted as being in an area of either very low risk or negligible risk from shrink swell clays, collapsible deposits, landslides and running sands.

Geo-environmental Conclusions of the Report

The potential risk of pollutant linkages can be summarised as moderate to low across the site with the more pertinent risks listed below;

- Possible made ground on-site from past construction of the school that may harbour contaminants.
- Potential for groundwater contamination from off-site to impact the soils and groundwater beneath the site.
- Potential for ground gas from off-site sources to on-site that may impact human health and/or buildings on site.

Quantum Geotechnical Limited (2017), Proposed Development at Ysgol Gyfun Ystalyfera School, Phase II Scheme. Ground Investigation Interpretative Report. G40035/IR

The investigation comprised a series of Trial Pits. Made Ground was encountered across the Phase II development site varying in depth from ground level to 1.00mbgl, but generally to a depth of 0.50mbgl. The Made Ground had inclusions of slag, brick and glass content. Underlying the Made Ground layer was a thin band of granular alluvium underlain by a uniform glaciofluvial deposit. Groundwater was not encountered.

Geotechnical Conclusions of the Report:

The Glaciofluvial deposits were identified as being a suitable founding strata for the development

Geo-environmental Conclusions of the Report:

The investigation identified a number of potential soil contaminants (predominantly hydrocarbon based) that may have posed a risk to future site users. Testing of soil leachates revealed no raised contaminants suggesting that any contaminants are non-mobile and unlikely to pose a risk to groundwater or nearby controlled watercourses.

Quantum Geotechnical Limited (2017), Ysgol Gyfun Ystalyfera School, Phase II Scheme. Technical Advice Note 01: Soft Landscape Testing. G40035-TAN01

Selective environmental testing was undertaken on soil samples from soft landscaped areas on the Phase II development area. Arsenic was identified to exceed the LQM/CIEH S4ULs assessment criteria guideline threshold and it was concluded the soft landscaped areas could pose a risk to human health of site users.

Quantum Geotechnical Limited (2017), Ysgol Gyfun Ystalyfera School, Phase II Scheme. Technical Advice Note 02: Additional Testing Soft Landscape Testing - Arsenic. G40035-TAN02

A number of Arsenic targeted Physiologically Based Extraction Tests (PBET) were undertaken on selected soil samples from soft landscaped areas on the Phase II development area to evaluate the bioaccessibility of Arsenic and the subsequent risks that may be posed to the end site user. The results indicated that between 20 - 28.5% of Arsenic within the soil samples tested is Bioaccessible. This equates to a 'revised' Arsenic soil concentration of between 10 – 12mg/kg which falls within the most stringent residential with plant uptake soil guideline values.

3. GEOLOGY AND SITE HISTORY

3.1 Published Geology

The geology of the site is depicted on the British Geological Survey (BGS) geological map sheet SN70NE (at 1:10,560 scale). An extract of the map is included below with the site area highlighted.

The map indicates that the site is likely to be underlain by superficial deposits, comprising Alluvium, over bedrock represented by the South Wales Middle Coal Measures Formation (Carboniferous age). The Coal Measures are described as comprising grey, coal-bearing mudstones and siltstones, with seatearths and minor sandstones.

In addition to the above, the mapping shown on the BGS website indicates an outcrop of Glaciofluvial Deposits, of Devensian age, to the south of the site. This indicates that Glaciofluvial Deposits (formerly referred to as Glacial Sand and Gravel) may be present in the site area, between the Alluvium and the bedrock.

The earlier Jacobs 2013 desk study for the Phase I development reports that the presumed centre line of the Tawe Valley Disturbance, a major fault zone, lies east of the site below the playing field, orientated north-east to south-west. In addition, an unnamed fault, trending north to south, is situated close to or below the eastern area of the site. The proximity of structural disturbances, including faulting, can result in the fracturing and weakening of bedrock, which in turn can lead to variations in the erosion of the bedrock surface by rivers or glaciation (shown as variations in rock head levels).

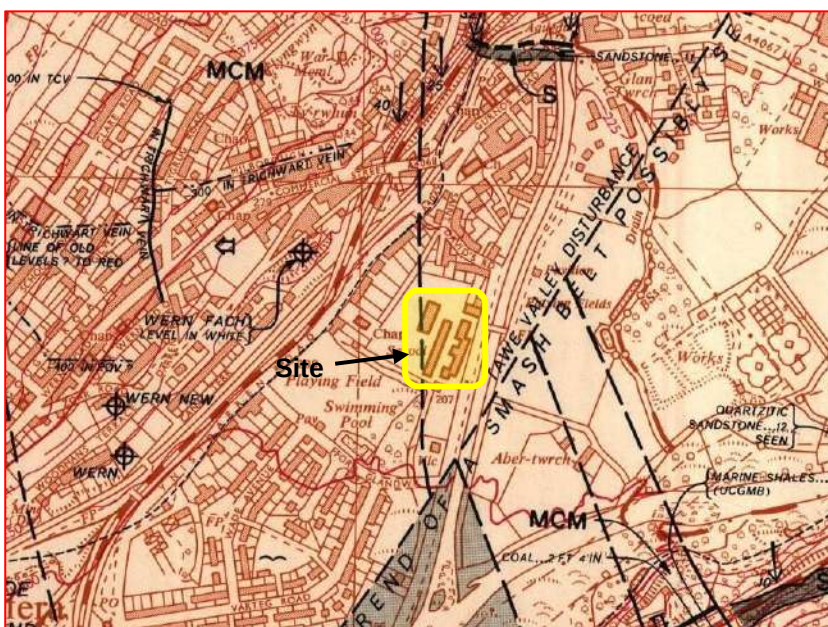


Figure 2: Extract from BGS Geological Map SN70NE (not to scale) © NERC

The school resides within the South Wales Coalfield with the general area having an extensive historical coal mining history by both underground and opencast methods. There are a number of mine entries in the general area of the site with the closest shown 200m to the northwest (Wern Fach) and 400m to the southwest (Wern New and Wern mine entries). Historical mapping (reviewed later in Section 3.3) indicates the former Pwllbach Colliery, was situated approximately 430 m south-west of the site, and the Clyngwyn Colliery, situated approximately 300m to 400m north-west of the site.

3.2. Radon Assessment

The site is located in an area where <1% of homes are considered by the Health Protection Agency to be at or above the action level for Radon.

No protective measures, according to BRE211 2015, (Radon – Guidance on Protective Measures for new buildings), are considered to be required for this development proposal.

3.3. Site History

The Jacobs 2013 desk study undertook an historical review of the Phase I site as part of the report based on a set of Ordnance Survey plans obtained via the Landmark Envirocheck report (Ref; 48340556_1_1, August 2013). The plans also cover the Phase III site as part of the search radius and therefore these have been utilised to provide a comprehensive historical land use review of the Phase III site within this Section.

A complete set of the historical plans as extracted from the Jacobs 2013 report are presented in Appendix III which are at 1:2,500 and 1:10,560 scale covering the period of 1878 to 2006, with online mapping used to cover the more recent land uses from 2006 to present day.

A summary of the details contained within successive surveys of the Ordnance Survey is provided below:

<u>Map Edition</u>	<u>Observations</u>
1878 - 1889 1:2,500 scale	The Phase III site and playing fields are shown as undeveloped open fields. The River Twrch is shown 100m east of the Phase III site and adjacent to the playing fields. The nearest development is the railway line to the west 100m away from the Phase III site with the main residential area of Ystalyfera on the western side of the railway line. Relatively large pits / quarries are mapped approximately 100m to the north west. A disused brickworks is noted to the southwest circa 300m away.
1899 1:2,500 scale	A school is now established 100m to the east of the Phase III development site. St. David's Road (<i>present day Glanyrafon Road</i>) is now defined along the

	eastern boundary of the school running parallel to the River Twrch.
1906 <i>1:2,500 & 1:10,560 scale</i>	Clyngwyn Colliery (400m northwest) and Pwllbach Colliery (300m southwest) are both now clearly visible in the 1906 map edition 1:10,560 scale.
1918-1921 <i>1:2,500 & 1:10,560 scale</i>	The school now shows additional detached buildings to the immediate north and south within the school boundaries. A vicarage is located outside the school's southern boundary. A row of semi-detached house are now shown along Ynysydarren Road adjacent to the north western site boundary. A Laundry is mapped at the southern end of the houses.
1953 <i>1:10,560 scale</i>	The Phase III site is shown as a playing field. Further south a swimming pool complex is established with much more residential development having taken place to the south and north of the site. Some 200m east of site is a sewage works.
1962-1965 <i>1:2,500 & 1:10,000 scale</i>	The school to the east of the Phase III site has expanded and a large building is now located immediately to the east of the site whilst the site appears to remain as a playing field with the entire site named as Ystalyfera Grammar School with tennis courts located to the south of the school.
1972 – 1977 <i>1:2,500 scale</i>	The school has expanded greatly with a number of large buildings now occupying the entire former playing field, including the building which is currently present on the Phase III site. The school is referred to as Ysgol Gyfun Ystalyfera. In the wider area, the Swansea Canal that ran along the western side of Ynysydarren Road has been infilled and the railway line appears to have been removed. Buildings are in the former pits / quarries to the north west. A works is noted approximately 150m north west of the Phase III site
1978 – 1992 <i>1:2,500 & 1:10,000 scale</i>	No pertinent changes are observed on site. The coal and quarry areas to the north of Ystalyfera are all shown as disused tips with the railway line clearly labelled as 'dismantled'.
1993 <i>1:2,500 scale</i>	No pertinent changes are observed on site with the exception of an electrical sub station located on the northern end of the original school building.
2006-2016 <i>1:2,500 scale</i>	By 2006 the swimming pool building to the south of site has been removed. In 2015 the large school building in the western area of the school premises were demolished and replaced by a new school building which formed Phase I of the school re-development scheme.

In summary, the Phase III site was formerly undeveloped grassland up until 1962 when the school extended onto the site with the construction of the building which currently occupies the site. The playing fields to the east of the River was fields before being used as Playing Fields.

Based on the historical review of the site the following potential geotechnical and geo-environmental constraints to the development have been identified that may impact upon the Phase III site and playing area

to the east of the River Twrch:

Potential On-Site sources:

- Potential Made Ground arising from the growth and expansion of the school over the past 100 years to the west and east that may have spread or been deposited in close proximity to the Phase III site.

Potential Off-site sources:

- Coal mining legacy within the general area
- Dismantled railway to the west of site
- Infilled Swansea Canal to the west of site

4. COAL MINING RISK ASSESSMENT

4.1. Published Geology & Mining Related Features

As discussed in Section 3.1, the most detailed published geology of the site and surrounding area is shown on the British Geological Survey (BGS) Sheet SN70NE at a scale of 1:10,560.

The map indicates that the site is likely to be underlain by superficial deposits, comprising Alluvium, over bedrock represented by the South Wales Middle Coal Measures Formation (Carboniferous age). The Middle Coal Measures generally comprise cycles of mudstone and siltstone with minor sandstones and many workable coal seams, particularly in the lower sections.

The general area has an extensive historical coal mining history by both underground and opencast methods. There are a number of mine entries mapped in the general area of the site with the closest shown 200m to the northwest (Wern Fach) and 400m to the southwest (Wern New and Wern mine entries). Historical mapping (reviewed in Section 3.3) indicates the former Pwllbach Colliery, was situated approximately 430 m south-west of the site, and the Clyngwyn Colliery, situated approximately 300m to 400m north-west of the site.

4.2. Coal Authority Mining Report & Coal Authority On-Line Interactive Mapping

The Coal Authority on-line interactive mapping resource (<http://mapapps2.bgs.ac.uk/coalauthority/home.html>) identifies the site as being outside of a 'Development High Risk Area'. This resource does not indicate any coal seam outcrops within the vicinity of the site, does not indicate any mine entries in the vicinity of the site that would affect the development, does not detail any 'Past Shallow Coal Workings' i.e. known workings; nor does it indicate 'Probable Shallow Coal Workings'.

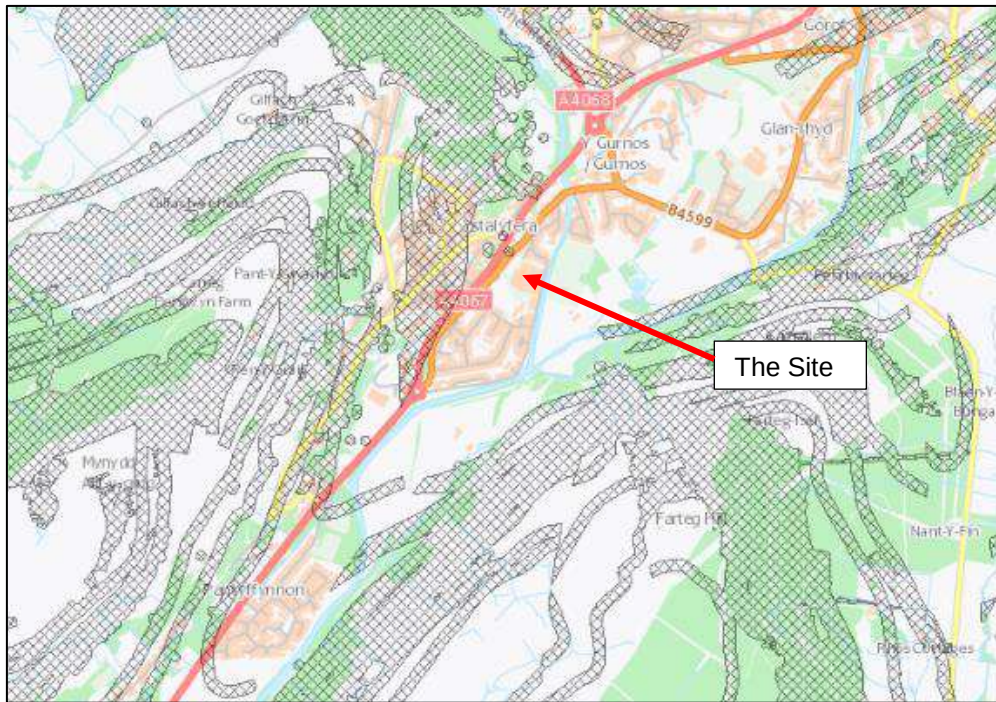


Figure 3: Coal Authority Interactive Mapping – Development High Risk Areas

The Coal Authority Interactive Mapping (Figure 3) shows the site to be outside of a High Risk Development Area whilst the site is not shown as being in an area where shallow mine workings may be present (Figure 4).



Figure 4: Coal Authority Interactive Mapping – Past Shallow Mineworkings

The CON29M Coal Mining Report (Report Ref:51002260114001) states the study site is in a surface area that could be affected by underground mining in 2 seams of coal at 60m to 170m depth, and last worked in 1940. The report states there are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

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

The report also states the site is not within a surface area that could be affected by present underground mining, the property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods, the property is not in an area where licence has been granted to remove or otherwise work coal using underground methods and the site is not in an area likely to be affected from any planned future underground coal mining.

4.3. Discussion

Shallow Mine Workings

Based on the published geological mapping and the Coal Authority On-Line Interactive Mapping, coal seams are not anticipated to be present at shallow depths below the site. However, a rotary borehole located close to the southwestern corner of the Phase III development did identify unworked coal between 31.6 and 33.4mbgl. In addition the Coal Authority Mining Report does not identify any recorded mine workings at 'shallow' depths or any coal potentially at shallow depths.

As coal seams are not mapped at shallow depths below the site, the Coal Authority does not identify the presence of recorded shallow mine workings below the site and previous investigations did not encounter any mine workings in the area, Shallow Mine Workings are not anticipated to be present below the proposed Phase III development site.

In addition, due to extensive faulting and folding in the area (Tawe Valley Disturbance), there is a chance that there could be a presence of artesian water pressures, and variability of the upper rock surface, so it is considered unlikely that there would be mining activities carried out at shallow depth due to these risks.

Nevertheless, it is emphasized that the possibility of shallow depth mining having taken place beneath some parts of the site cannot be completely discounted.

It is suggested therefore that any foundation design take this into consideration.

Mine Entries

The Coal Authority Report states that they have no records of any mine entries that would affect the site.

From our study of the available Ordnance Survey sheets and additional sources, no features were identified that would suggest the presence of any mine entries either on, or that would affect, the site.

4.4. Conclusions

Shallow coal seams and as such, either recorded or unrecorded shallow mine workings are not anticipated to be present at shallow depths below the site. Therefore, on the balance of evidence, it is concluded the risk to the proposed Phase III development site from shallow mine workings is considered low, however it is emphasized that the possibility of shallow depth mining having taken place beneath some parts of the site cannot be completely discounted.

No mine entries were identified in the Coal Authority Mining Report for the site, nor has any evidence been revealed from our extended searches as to any unrecorded mining features that may affect the site.

4.5. Recommendations

From our searches, we have concluded that there is low risk for shallow workings to exist beneath the site, however the possibility of shallow depth mining having taken place beneath some parts of the site cannot be completely discounted and it is suggested therefore that any foundation design take this into consideration.

As part of the development of the site, we would recommend that the ground be stripped to virgin soils to ensure no unmapped coal outcrops are present beneath the footprint of the building. If coal, or any anomalies, are encountered we would recommend that the advice of an engineering geologist be sought. Any coal proved should be excavated and replaced with suitable granular engineered fill.

No mine entries have been revealed by the Coal Authority records or our extended searches, therefore the risk from any such features is considered to be low and as such acceptable.

On a general note, care should be taken to ensure that foundations are placed in natural ground and not in variable fill material unless adequate treatment of the ground has been carried out. A ground investigation should be undertaken to allow design of foundations to be progressed.

5. GEO-ENVIRONMENTAL APPRAISAL

5.1. General

As detailed in Section 1.1, the Phase I development located immediately to the south of the Phase III development site was subject to an earlier desk study undertaken by Jacobs in 2013. The resource information and findings of this earlier desk study has been used in the following section. Due to the close proximity of the two Phases within the same school boundary premises the information contained within the referenced Landmark Envirocheck reports commissioned by Jacobs in 2013 are viewed as being applicable to this Phase III area of the school.

The Landmark Envirocheck report is a combined geological and environmental report, it provides details on the geology and hydrogeology of the site. In addition, site specific environmental issues including pollution incidents, discharge consents, flooding issues and any areas of significant contamination potential as well the risk to any existing or planned properties from the underlying ground conditions.

In addition, Jacobs 2013 also contacted NPTCBC Contaminated Land Department regarding the area and whether any records were held or whether the site was listed as potentially contaminated. The response stated that records held by NPTCBC do not show the site as contaminated and the site is not listed on the Council's register of contaminated land as outlined by Part IIA of the Environmental Protection Act 1990.

A complete copy of the Landmark Envirocheck report is included in Appendix IV. The full Report should be read in conjunction with the following summary of their contents.

5.2. Geological Geo-Environmental Influences

5.2.1. General

The Landmark Envirocheck report details the geology of the site and natural geological related hazards that may impact upon the site's environmental characteristics.

5.2.2. Artificial Ground and Superficial Deposits

Whilst historical records indicate no past industrial, commercial or ground workings having taken place on the site prior to the school being built in 1899, there is a possibility that a thin cover of Made Ground may be present which may have been used to create the formation level for the school.

Alluvium and glacial fluvial deposits are recorded on the Site.

5.2.3. **Bedrock Geology**

The Report concurs with section 3.0. of this desk study indicating Lower Westphalian bedrock (Carboniferous – coal producing measure).

5.2.4. **Radon**

Section 3.2 details that Radon protective measures are not considered necessary, this is reiterated in the Landmark Envirocheck Report (Page 35).

5.2.5. **Natural Hazards**

The Landmark Envirocheck Report also details any other ground related hazards and a relevant hazard rating for the related occurrence of natural ground subsidence on site. Table 1 summarises these:

Hazard	Hazard Rating within 250m Radius of Site
Shrink - Swell Clays	Very Low
Landslides	Very Low-Low
Ground Dissolution Soluble Rocks	No Hazard
Compressible ground	No Hazard-Moderate
Collapsible deposits	No Hazard-Very Low
Running Sands	No Hazard-Very Low

Table 1: Natural Hazards

5.2.6. **Estimated Background Soil Chemistry**

Records of the estimated background soil chemistry for the general site area indicate the following concentrations on site:

Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
15 - 25 mg/kg	<1.8 mg/kg	60-90 mg/kg	15-30 mg/kg	<150 mg/kg

Table 2: Estimated Geometric Mean Soil Concentrations

5.3. Environmental Influences

5.3.1. General

The Landmark Envirocheck Report presents environmental datasets pertinent to the site and its surrounding area.

The datasets covered within the report are:

- Historical Industrial Sites
- Contemporary Land Uses
- Landfill and Other Waste Sites
- Current Land Uses
- Hydrogeology and Hydrology
- Flooding
- Designated Environmentally Sensitive Sites
- Natural Hazard Findings

The data contained in these sections are described in more detail on the following pages.

5.3.2. Historical Land Use

Section 3.3 details the historical land use of the site and immediate surrounding area. With the exception of the original school building built 1899 and subsequent school buildings constructed as recently as 2018 and includes the existing building located on the proposed Phase III development site, no prior development had taken place. The playing fields were open fields prior to the current use. The surrounding area is mainly farmland to the east and housing to the west, south and north with a now removed railway line and Swansea Canal located approximately 75m west of the Phase III development site. No industrial or commercial land uses with potential to contaminate the Phase III site have been identified from past land usage.

5.3.3. Contemporary Land Uses

There are 28 commercial/ industrial entries listed in the Landmark Envirocheck report, however, of these only one can be seen as being remotely influential to the site and this is a service station approximately 55m west of site.

The site is also not on the Local Authority's register of contaminated land as outlined by Part IIA of the Environmental Protection Act 1990.

5.3.4. Landfills and Other Waste Sites

There are three historic landfills and one licenced waste management facility listed between 501-1000m of site.

5.3.5. Recorded Pollution Incidents

There are two recorded pollution incidents within 250m of the site, both southeast of site involving crude sewage into the Twrch/Tawe Rivers.

5.3.6. Pollution Prevention and Control Authorisations

Just one record of an active pollution prevention and control site within 500m of the site boundary is noted. This is a coal product service located 320m north of site.

5.3.7. Discharge Consents

One discharge consent is detailed for sewage recorded within 500m of the site, approximately 350m east of site at the existing sewage treatment plant and into the River Tawe.

5.3.8. Hydrogeology and Hydrology

The River Twrch lies approximately 100m east of the Phase III development site and 10m west of the playing fields. The River Twrch converges with the River Tawe some 350m southeast of site.

The River Twrch water quality has been assessed to be of good ecological and chemical quality.

Five surface water abstraction points from the River Twrch are located within a 1000m search radius of the site.

The site does not lie within a flood risk area.

The Superficial deposits are classified as Secondary A aquifers whilst the underlying bedrock is also shown as Secondary A aquifer designation.

There are two groundwater abstraction points both for bottling water industries located approximately 220m to the northeast and 460m southeast of the Phase III development site.

The site is not located within a groundwater Source Protection Zone.

5.3.9. Designated Environmentally Sensitive Sites

There are no designated environmentally sensitive sites within 250m of the site.

6. DERIVATION OF CONCEPTUAL SITE MODEL

6.1. Legal Framework for Contaminated Land

Part IIA of the Environmental Protection Act 1990 created a regime for the identification and remediation of contaminated land. Contaminated land is defined by the potential to cause significant harm to human health and/or the environment. It establishes that responsibility for deciding when land is contaminated lies solely with local authorities.

Part IIA of the Environmental Protection Act 1990, Section 78A(2) defines “Contaminated Land” as:

“any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that -

(a) significant harm is being caused or there is a significant possibility of such harm being caused; or

(b) pollution of controlled waters is being, or is likely to be, caused.”

The definition is subject to statutory guidance issued by the Secretary of State which defines significant harm and a significant possibility of such harm with respect to the definition of contaminated land. The statutory guidance sets the definition of contaminated land within the context of Government policy including the “suitable for use” approach.

Under the planning regime, land contamination is also a material consideration. A local authority has the duty to consider potential implications of contamination when it is considering applications for planning permission. A planning authority may require investigations to be undertaken where there is potential contamination or contamination is known to exist at a site before granting planning permission. Alternatively, planning permission may be conditional requiring appropriate investigation and, if necessary, remediation.

6.2. Conceptual Site Model

The conceptual site model is a representation of the current understanding of the site and its surrounding environment with regards to geology, groundwater, surface waters, and potential contamination on-site and adjacent off-site and any migration pathways.

The potential risks to the proposed development and adjacent land have been assessed by consideration of the potential pollution linkages. For a risk to exist there must be a source of contamination, a receptor that may be harmed and a pathway by which the receptor could be exposed to the contaminant. Only when all three factors are present (i.e. source, pathway, receptor) can a pollution linkage, and consequently an unacceptable risk, exist.

The SPR model is used in risk assessment to identify the source of any contamination, what the source may affect (receptor) and how the source may reach the receptor (pathway).

- **Source**

The cause or source of the contamination is identified. For example, the source might be a leaking oil tank or contaminated ground or water. The location of the contamination may be identified, such as in soils, ground or surface waters or ground gases.

- **Pathway**

The pathway is the route the source takes to reach the receptor. Pathways include, for example, air, water, soil, animals, vegetables and eco-systems. From the information above, a conceptual model is created displaying all sources, pathways and receptors. Conclusions are drawn about the potential risks caused by the source of contamination. Conceptual models are used to inform and drive site investigations and to assist with remedial strategies.

- **Receptor**

If contamination is to cause harm, it must reach a receptor. A receptor is a person, animal, plant, eco-system, property or a controlled water. Each receptor must be identified and their sensitivity to the contaminant must be established.

- **Pollutant Linkage**

A 'pollutant linkage' occurs when a source, pathway and receptor exist together

The conceptual site model considers all three elements and the potential for pollution linkages that may exist. If no linkage is identified then there is considered to be no or negligible risk.

The information gained from the land use assessment in Sections 3 and 4 of this report in conjunction with the Landmark Envirocheck report, has been assessed to identify any potential pathways that may exist between any contamination source and its receptors. The Conceptual Site Model has been developed for the proposed end use.

Receptors specific for the proposed end use considered in the assessment are as follows:

- Human Health – construction phase & end users (pupils, staff, visitors)
- Controlled Waters – ground water and surface waters
- Buildings and Services

From the historical and Landmark Envirocheck searches, no past uses of the site have been identified as being potentially contaminative. No evidence of any Artificial or Made Ground has been documented, although there is the possibility, as was identified within the Phase II development site, that a thin layer of potentially contaminated Made Ground may be present. No other sources of potential contamination have been revealed from the searches.

Therefore the potential **Source** for contaminants to be present within the near surface soils on the proposed development site appear to be low to medium. However, each of the potential components relating to environmental risk have been assessed to form the conceptual site model and these are presented in

tabulated format with a risk matrices based on the guidance set out within CIRIA 552 document which provides an evaluation risk assessment method based on potential consequence (severity) and the probability (likelihood) of the risk occurring. The risk matrix is then used to determine a risk score for each potential contaminant constraint (hazard) to the site.

The basis of the risk evaluation is set out in the tables below;

Risk Matrix		Consequence (Severity)			
		Severe	Medium	Mild	Minor
Probability (Likelihood)	High Likelihood	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/Low	Low
	Low Likelihood	Moderate	Moderate/Low	Low	Very Low
	Unlikely	Moderate/Low	Low	Very Low	Very Low

Table 3: Risk Estimation Matrix

Risk	Description of Risk
Very High	There is a high likelihood of the event occurring and having severe consequences. If the risk is realised it is likely to result in substantial liability.
High	Likely that an event with medium or even severe consequences could arise. If the risk is realised it may result in a substantial liability.
Moderate	It is possible that an event could occur and it is either unlikely and consequences may be severe, or if it were to occur it is likely that consequences would be relatively mild. Investigation would normally be required to clarify the risk and determine the potential liability.
Low	It is possible that an event could occur but it is likely that the consequences would be at worst mild.
Very Low	It is unlikely that an event could occur, and if it happened the consequences are likely to be at worst mild.

Table 4: Risk Description Matrix

Details of the potential **Source**, **Pathways** and **Receptors** relating to land contamination issues associated with each of the components identified within this report are highlighted in the following conceptual site model matrix table. The conceptual site model covers risks to both human health and controlled waters based on the proposed end use as a school.

Source	Pathway	Receptor	Risk	Risk Rating (Score)
On-Site Contamination	Leaching of contaminants from Made Ground into groundwater	Groundwater (Secondary A superficial and bedrock aquifers)	Probability: Low likelihood Consequence: Minor A low potential for made ground to reside onsite at shallow depth from historic land use (through construction of the original school). Site located on Secondary A aquifers but not within a source protection zone.	Very Low
Made Ground: Limited potential for historic made ground to be present on site	Migration of contaminants offsite within groundwater flow	River Twrch/ River Tawe Water bottling abstraction location	Probability: Low likelihood Consequence: Minor - Mild A low potential for made ground to reside onsite at shallow depth from historic land use (through construction of the original school). Limited potential for onsite contaminants to migrate to watercourses through superficial deposits. The abstraction locations is south of River Twrch (~260m south of site)	Low
Off-Site Contamination	Migration of contaminants from off-site sources onto/ beneath the site	Groundwater (Secondary A superficial and bedrock aquifers)	Probability: Low likelihood Consequence: Medium Whilst the groundwater regime is unknown within the larger area, the distance of potential offsite sources of contaminants is significant (in excess of 100m) with the exception of the service station located 95m west/northwest of site. There is a low potential for legacy contamination from past coal mining and tin plate works west and north of site, however, the distance and timescales (several decades) limits the likelihood of contaminants migrating towards the site and remaining of at a concentration that would be considered significant.	Moderate/ Low

Table 5: Preliminary Land Contamination Risk Assessment – Conceptual Site Model Matrix for **Controlled Waters**

Source	Pathway	Receptor	Risk	Risk Rating (Score)
On-Site Contamination Soil/ Groundwater Made Ground: Potential for historic Made Ground to be present on site	Ingestion Inhalation of dust plus Asbestos fibres if used in original school construction Dermal Absorption Inhalation of vapours	Site End Users (pupils, staff, visitors) Potential chronic risks	Probability: Low to medium likelihood Consequence: Medium A low potential for Made Ground to reside onsite at shallow depth from historic land use (through construction of the original school). Materials when demolishing original school building Low potential for off-site sourced contaminants.	Moderate
		Site Construction Workers Potential acute risks	Probability: Low likelihood Consequence: Medium A low potential for made ground to reside onsite at shallow depth from historic land use (through construction of the original school). Materials when demolishing original school building Low potential for off-site sourced contaminants	Moderate/ Low
Ground Gas	Inhalation of ground gases Accumulating in closed spaces causing risk of asphyxiation and/or explosion	Site End Users	Probability: Unlikely to Low likelihood Consequence: Severe A low potential for made ground to reside onsite at shallow depth from historic land use (through construction of the original school). No mapped deleterious/ organic soils shown Low potential for gas migration from past coal mining in wider area	Moderate/ Low

Table 6: Preliminary Land Contamination Risk Assessment – Conceptual Site Model Matrix for **Human Health**

Source	Pathway	Receptor	Risk	Risk Rating (Score)
On-Site Contamination Soil/ Groundwater Made Ground: Limited potential for historic made ground to be present on site	Contaminants damaging to water supply pipes – chemical attached, enter potable water supply	Water supply pipes (& subsequently human ingestion)	Probability: Unlikely Consequence: Medium A low potential for made ground to reside onsite at shallow depth from historic land use (through construction of the original school). Potential contaminants may permeate water supply pipes and be ingested by site users.	Low
Ground Gas	Inhalation of ground gases Accumulating in closed spaces causing risk of explosion	On-site Buildings	Probability: Unlikely Consequence: Severe A low potential for made ground to reside onsite at shallow depth from historic land use (through construction of the original school). No mapped deleterious/ organic soils shown Low potential for gas migration from past coal mining in wider area	Moderate/ Low

Table 7: Preliminary Land Contamination Risk Assessment – Conceptual Site Model Matrix for **Buildings & Utility Services**

Summary of Conceptual Site Model Findings:

Tables 5 to 7 have identified a number of pollutant linkages however, these are all classed as low to moderate in risk rating. Whilst there appears to be a potential risk of contaminated land in the form of historic Made Ground being present on site, the likelihood of this impacting the proposed future development of the Phase III site and re-use of the playing field area, immediate environment and human health is very low to moderate with a low to moderate risk of ground gas mainly relating to coal mining within the wider area..

7. CONCLUSIONS & RECOMMENDATIONS

7.1. Concluded Pertinent Risks

From this Preliminary Risk Assessment for the proposed development of the Phase III area and the playing fields of Ysgol Gyfun Ystalyfera school, the following risks have been identified:

Geotechnical Issues:

- The Geological maps for the area indicate superficial deposits comprising Alluvium and Glacial Fluvial soils. Whilst no Made Ground is mapped there may well be a thin mantling, as identified locally within previous development areas.
- The solid geology of the site is indicated to be Mudstones, Siltstones and Sandstones, with possible coal seams from the South Wales Coal Measures of Carboniferous age.
- An unnamed fault line is mapped below the Phase III development site which suggests the potential for fractured and weakened bedrock below the site, which in turn can lead to variations in the erosion of the bedrock surface by rivers or glaciation (shown as variations in rock head levels).
- The site lies in an area of former coal mining. The site specific mining report indicates workings to be at depth (minimum of 60m) with any related movement having stopped by now. No mine entries have been recorded. The geological map review concurs with this and the risk from former shallow coal mining is considered low.
- The site is highlighted as being in an area of either very low risk or negligible risk from shrink swell clays, collapsible deposits, landslides and running sands.

Environmental Issues:

The potential risk of pollutant linkages can be summarised as moderate to low across the site with the more pertinent risks listed below;

- Possible Made Ground on-site as identified within the previous development sites which potentially contains contaminants at concentrations that may pose a risk to future site users.
- Potential for groundwater contamination from off-site to impact the soils and groundwater beneath the site.
- Potential for ground gas from off-site sources to on-site that may impact human health and/or buildings on site.

7.2. Recommendations

A number of potential geotechnical and environmental issues have been identified within this study hence the following is recommended;

- Sampling of soils to determine the underlying ground conditions and to obtain samples to determine the geo-environmental characterisation of the underlying shallow ground conditions. The geotechnical characteristics of the shallow soils can also be determined as part of the same exercise.
- A human health assessment to determine whether any pollutant source exists and if any exceedances of recognised thresholds occur.
- An assessment to determine the risk from pollution pathway linkages between sources and receptors on and off site.

If any exceedances and viable pollution pathway linkages are found, the guidance and recommendations for remedial strategies to permit progression of the proposed development of the site should be given.

8. REFERENCES

British Geological Survey:

- British Geological Survey Sheet SN70NE at 1:10,560 scale
- <http://mapapps.bgs.ac.uk/geologyofbritain/home.html>

Coal Authority:

- Coal Mining Report, Ref: 51000351928001, 13th August 2013

Environmental Searches:

- Landmark Envirocheck Report, Order Number 48340556_1_1, August 2013

UK Radon:

- Guidance on protective measures for new buildings (BRE Press, 2015)
- <http://www.ukradon.org/information/ukmaps>

Other Publications:

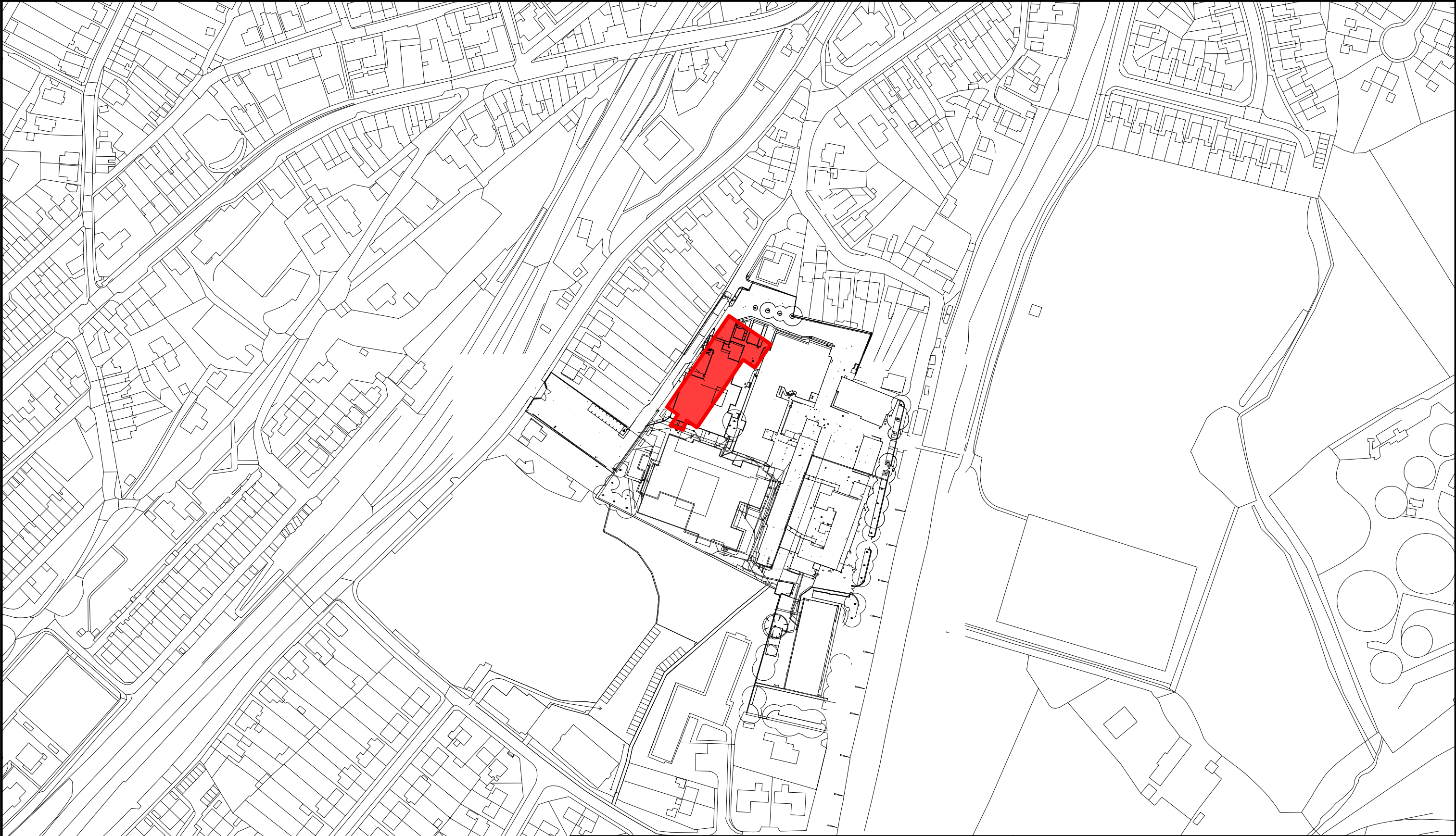
- Environmental Protection Act 1990: Part IIA Waste on Land
- Environment Act (1995). Section 57 Contaminated Land
- Environment Agency (2013) What's in your Backyard Online Mapping
- CIRIA C552 (2001) Contaminated Land Risk Assessment – A guide to good practice

Past Studies:

- Land adjacent to Ystalyfera School, Geotechnical and Geo-Environmental Desk Study, Reference; B1844758/01/R1, Jacobs, December 2103
- Ysgol Gyfun, Ystalyfera, Nr Swansea Factual and Interpretative Report on Ground Investigation, Report No: H4011-14/2 Environmental Scientific Group 2014
- Proposed Development at Ysgol Gyfun Ystalyfera School, Phase II Scheme. Preliminary Risk Assessment / Desk Study. G40035/PRA, Quantum Geotechnical Limited 2017
- Ysgol Gyfun Ystalyfera School, Phase II Scheme. Technical Advice Note 01: Soft Landscape Testing. G40035-TAN01, Quantum Geotechnical Limited 2017
- Ysgol Gyfun Ystalyfera School, Phase II Scheme. Technical Advice Note 02: Additional Testing Soft Landscape Testing - Arsenic. G40035-TAN02, Quantum Geotechnical Limited 2017

APPENDIX I – PROPOSED PHASE III SITE PLAN

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				Bingham Hall PARTNERSHIP LTD		Project Title YSTALYFERA SCHOOL, PHASE 3			
				Consulting Civil & Structural Engineers 5 Ty-Nant Court Morganstown Cardiff CF15 8LW Telephone (029) 2048 8588		Drawing Title PROPOSED BUILDING LOCATION			
Scale		Drawn DB	Drawing Size A3	Date MAR 20	Checked DTH				
Project No.		Originator	Volume	Level	Type	Role	Number	Drawing Status	Rev
YGY - BHP		XX	XX	DR	C	(SK)	002	INFORMATION	
Rev	By	Date	Revision						

APPENDIX II – COAL AUTHORITY MINING REPORT)



The Coal
Authority

CON29M

coal mining report

YSGOL GYFUN YSTALYFERA, YSTALYFERA, SWANSEA, SA9 2JJ



Known or potential coal mining risks

Past underground coal mining	Page 3
Future underground coal mining	Page 3
Mine entries	Page 4



Further action

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

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



Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Your reference: **Q0229**
Our reference: **51002260114001**
Date: **25 March 2020**

Client name:
Philip Darby

If you require any further assistance please
contact our experts on:
0345 762 6848
groundstability@coal.gov.uk



The Law
Society

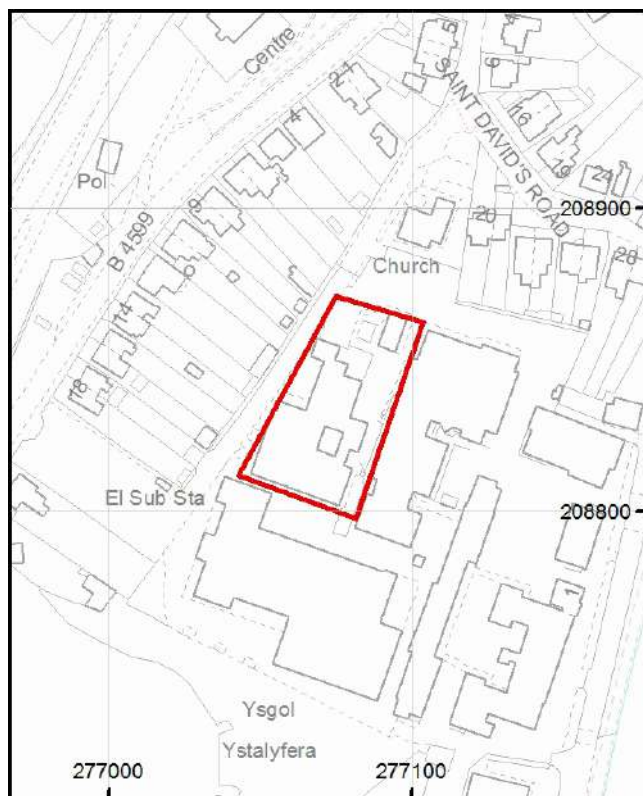
Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is
on the coalfield



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



Accessibility

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

Detailed findings

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1 Past underground coal mining

The property is in a surface area that could be affected by underground mining in 2 seams of coal at 60m to 170m depth, and last worked in 1940.

Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

2 Present underground coal mining

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

3 Future underground coal mining

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

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

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

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

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

4 Mine entries

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

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

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

5 Coal mining geology

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

6 Past opencast coal mining

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

7 Present opencast coal mining

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

8 Future opencast coal mining

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

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

9 Coal mining subsidence

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

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

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

10 Mine gas

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

11 Hazards related to coal mining

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

12 Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

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

13 Working facilities order

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

14 Payments to owners of former copyhold land

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

Statutory cover



Coal mining subsidence

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

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

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

www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

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

Glossary



Key terms

adit - horizontal or sloped entrance to a mine

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

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

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

coal seams - bed of coal of varying thickness

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

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

mine entries - collective name for shafts and adits

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

shaft - vertical entry into a mine

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

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

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

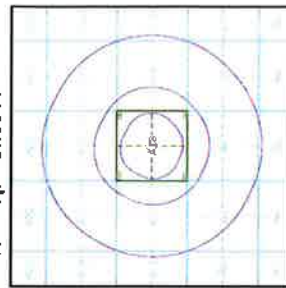
withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

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

APPENDIX III – HISTORICAL MAP COLLECTION

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,550	1883 - 1884	2
Brecknockshire	1:10,550	1889	3
Glamorganshire	1:10,550	1890 - 1901	4
Brecknockshire	1:10,550	1906	5
Glamorganshire	1:10,550	1921	6
Brecknockshire	1:10,550	1921	7
Glamorganshire	1:10,550	1921	8
Brecknockshire	1:10,550	1921	9
Glamorganshire	1:10,550	1953	10
Brecknockshire	1:10,550	1953	11
Ordinance Survey Plan	1:10,000	1965	12
Ordinance Survey Plan	1:10,000	1981 - 1987	13
Ordinance Survey Plan	1:10,000	1984	14
10K Raster Mapping	1:10,000	2006	15
10K Raster Mapping	1:10,000	2013	16

Historical Map - Slice A



Order Details

Order Number: 48340556-1-1
 Customer Ref: B15974EX - 12869
 National Grid Reference: 277030, 208720
 Slice: A
 Site Area (Ha): 0.69
 Search Buffer (m): 1000

Site Details

Site at 277030, 208700



Tel: 0844 844 9852
 Fax: 0844 844 9851
 Web: www.envirocheck.co.uk

Historical Mapping Legends

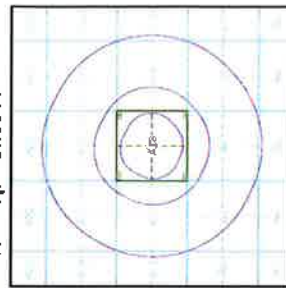
Ordnance Survey Plan 1:10,000

Ordnance Survey County Series 1:10,560

1:10,000 Raster Mapping

Gravel Pit	Chalk Pit, Clay Pit or Quarry	Gravel Pit	Refuse up or slag heap
Quarry	Sand Pit	Disused Pit or Quarry	Rock (scattered)
Ostlers	Refuse or Slag Heap	Lake, Loch or Pond	Boulders (scattered)
Mixed Wood	Dunes	Boulders	Mud
Fir	Coniferous Trees	Non-Coniferous Trees	Sand Pit
Arrow indicates flow of water	Orchard	Scrub	Slopes
Site of Antiquities	Barren	Heath	General detail
Pump, Guide Post, Signal Post	Marsh	Reeds	Overhead detail
Surface Level	Building	Shingle	Multi-track railway
Sketched Contour	Glasshouse	Sand	County boundary (England only)
Main Roads	Sloping Masonry	Electricity Transmission Line	District, Unitary, Metropolitan, London Borough boundary
Minor Roads	Pyen	Standard Gauge Multiple Track	Area of wooded vegetation
Sunken Road	Cutting	Standard Gauge Single Track	Non-coniferous trees (scattered)
Road over Railway	Road over	Single Track	Coniferous trees
Railway over Road	Road over River	Siding, Tramway or Mineral Line	Positioned tree
Road over River or Canal	Level Crossing	Narrow Gauge	Coppice or Osters
Road over Stream	Geographical County		Health
County Boundary (Geographical)	Administrative County, County Borough or County of City		Marsh, Salt Marsh or Reeds
County & Civil Parish Boundary	Municipal Borough, Urban or Rural District, Borough or District Council		Flow arrows
Administrative County & Civil Parish Boundary	Borough, Borough or County Council		Mean low water (springs)
County Borough Boundary (England)	Civil Parish		Mean high water (springs)
County Borough Boundary (Scotland)	Boundary Post or Stone		Telephone line (where shown)
Rural District Boundary	Club House		Bench mark (where shown)
Civil Parish Boundary	Fire Engine Station		Point feature (e.g. Guide Post or Mile Stone)
	Foot Bridge		Site of (antiquity)
	Fountain		General Building
	Guide Post		
	Mile Post		
	Mile Stone		
	Police Station		
	Post Office		
	Public House		
	Signal Box		
	Spr		
	Telephone Call Box		
	Telephone Call Post		
	Wall		

Historical Map - Slice A



Order Details

Order Number: 48340556-1-1
 Customer Ref: B15974EX - 12869
 National Grid Reference: 277030, 208720
 Slice: A
 Site Area (Ha): 0.69
 Search Buffer (m): 1000

Site Details

Site at 277030, 208700



Tel: 0844 844 9852
 Fax: 0844 844 9851
 Web: www.envirocheck.co.uk

Glamorganshire

Published 1883 - 1884

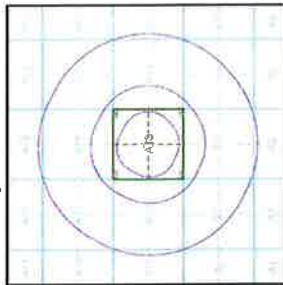
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published data given therefore is often some years later than the surveyed data. Before 1930, all OS maps were based on the Cassini Projection, with subsequent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In 1930, the Ordnance Survey introduced the Transverse Mercator Projection, with all military maps and other strategic maps updated to the 1:10,560 mapping for a number of sources. The maps shown are unaltered, with all military maps and other strategic maps updated. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

00300	1883
1:10,560	
00000	1884
1:10,560	

Historical Map - Slice A



Order Details

Order Number: 48340556.1.1
Customer Ref: 815974EX - 12869
National Grid Reference: 277030, 208720

Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700

Brecknockshire

Published 1889

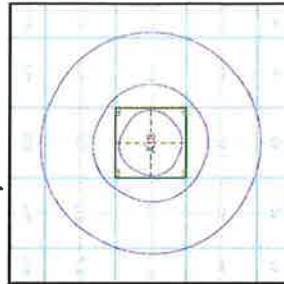
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



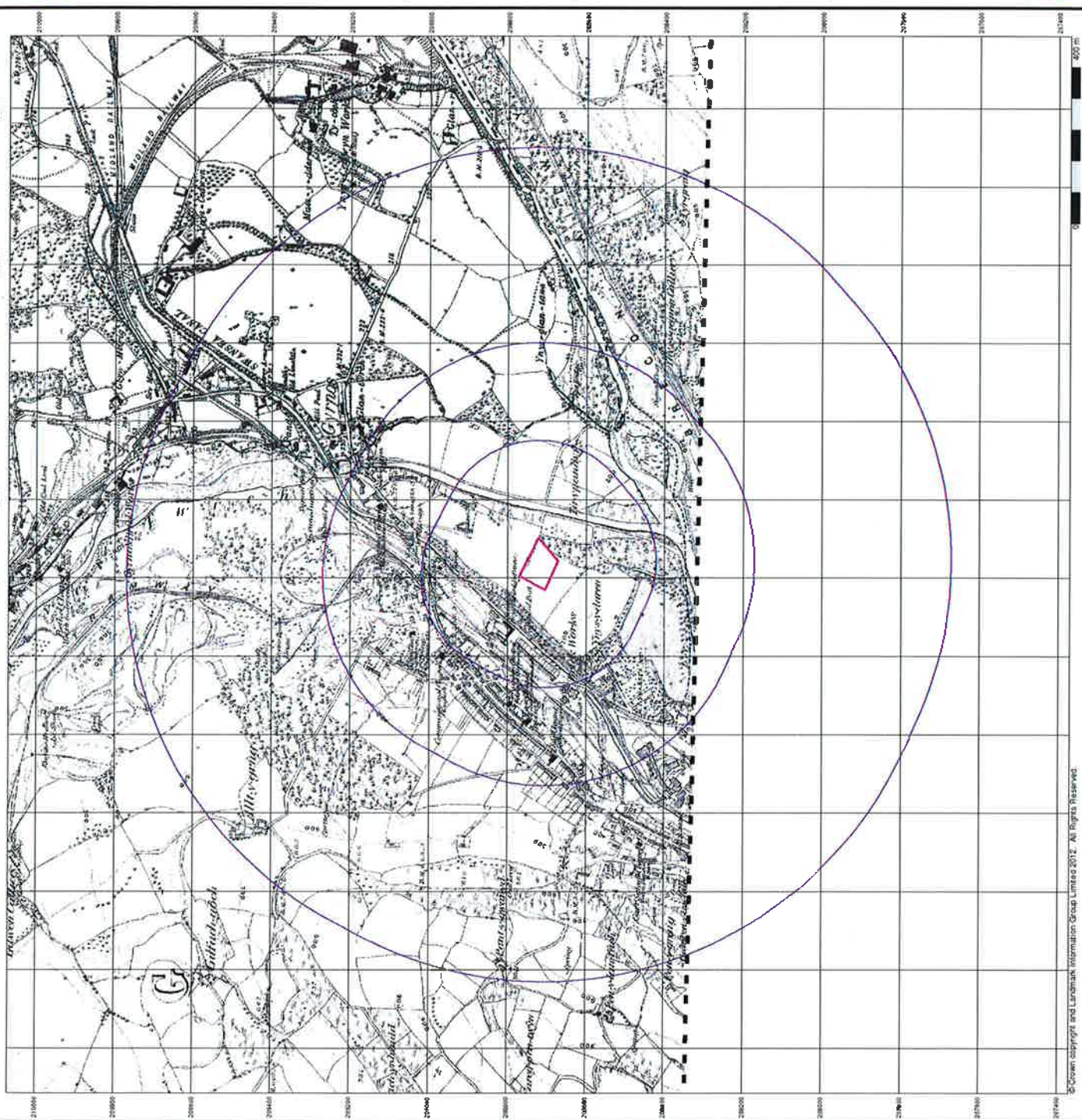
Order Details

Order Number: 48340556_1_1
Customer Ref: B15974EX - 12869
National Grid Reference: 277030, 208720

Site: A
Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700



Glamorganshire

Published 1900 - 1901

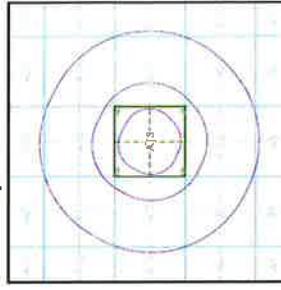
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

003SW	1901
006NW	1900
1:10,560	

Historical Map - Slice A



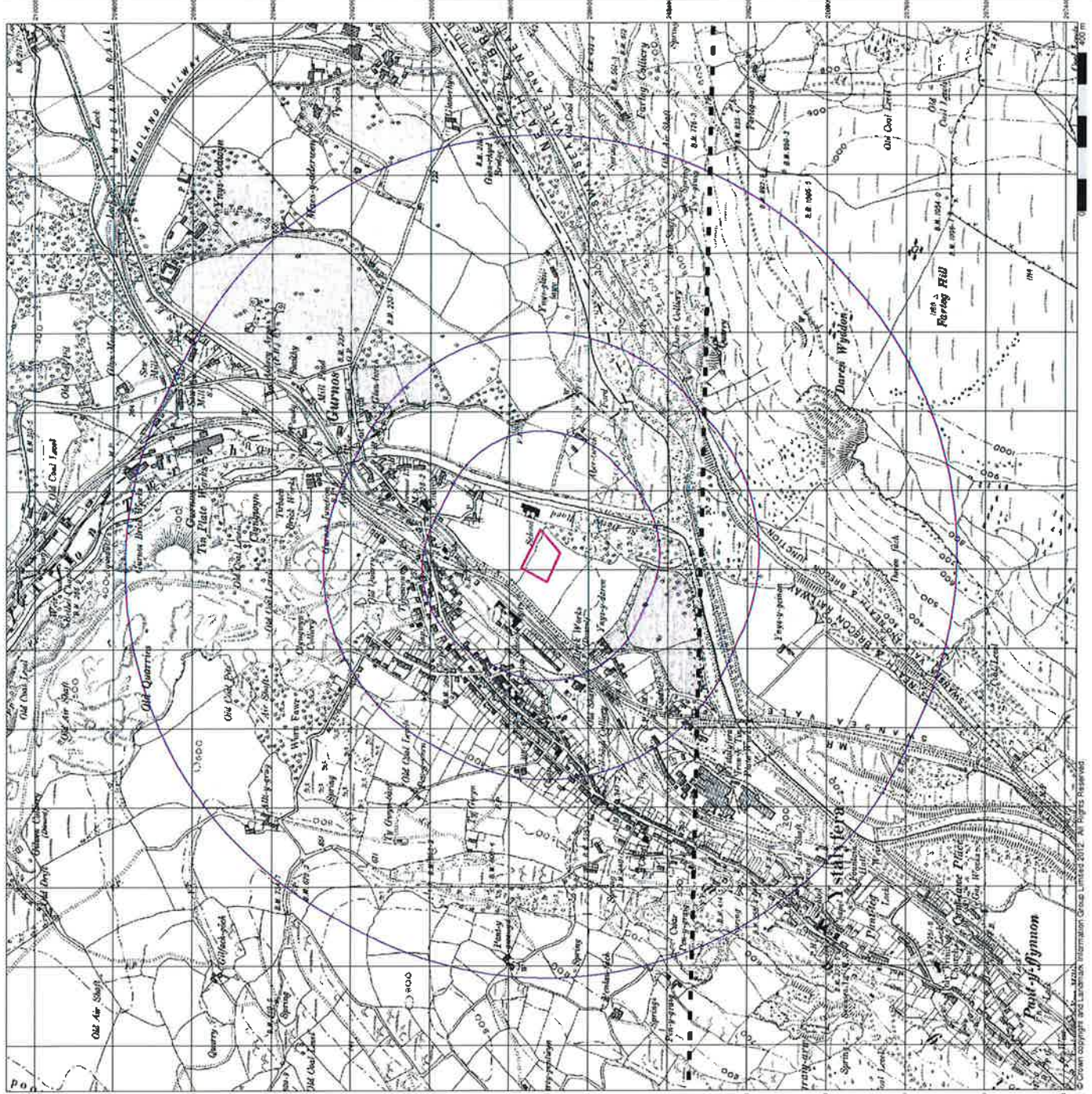
Order Details

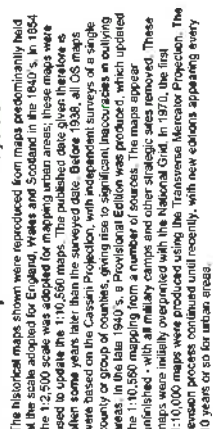
Order Number: 48340556 1.1
Customer Ref: B15974EX - 12669
National Grid Reference: 277030, 208720

Site: A
Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700





MS670
1908
1:10,500

Order Number: 48340556_1_1
Customer Ref: B15974EX - 12869
National Grid Reference: 277030, 208720
Slice: A
Sile Area (Ha): 0.69
Search Buffer (m): 1000

Site at 277030, 208700



Brecknockshire

Published 1921

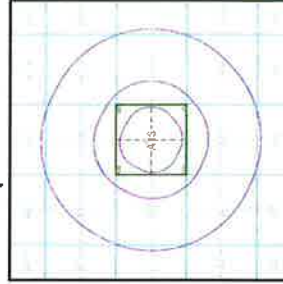
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were often at a scale of 1:10,560. The published maps were produced before a new system of mapping was introduced in 1940. The maps were based on the Cassini Projection with independent datum. The maps were produced by a group of counties, giving rise to significant inaccuracies in adjoining areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unaltered, with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 48340556_1_1
Customer Ref: B15974EX - 12869
National Grid Reference: 277030, 208720

Site: A
Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700

Brecknockshire Published 1921

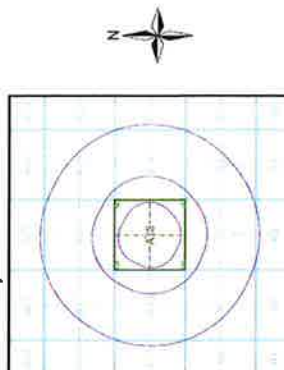
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1936, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlining areas in the late 1940's. A Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear to be a mixture of many maps and survey data, and are not entirely accurate. These maps were initially covered by the National Grid in 1937. In 1948, 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 48340556 1.1
Customer Ref: B15974EX - 12869
National Grid Reference: 277030, 208720
Slice: A
Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700

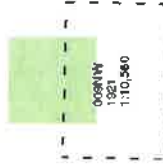
Glamorganshire

Published 1921

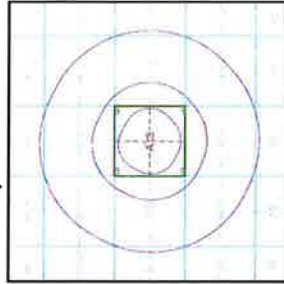
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published data given therefore is derived from the 1:10,560 maps. Before 1950, all OS maps were based on the Cassini Projection with the exception of a small area in the south of England, which was based on the Transverse Mercator Projection. The 1:10,560 maps were produced using the Transverse Mercator Projection. The reissue process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 48340556_1_1
Customer Ref: B15974EX - 12669
National Grid Reference: 277030, 208720

Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700

Brecknockshire Published 1953

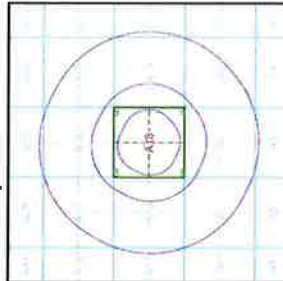
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

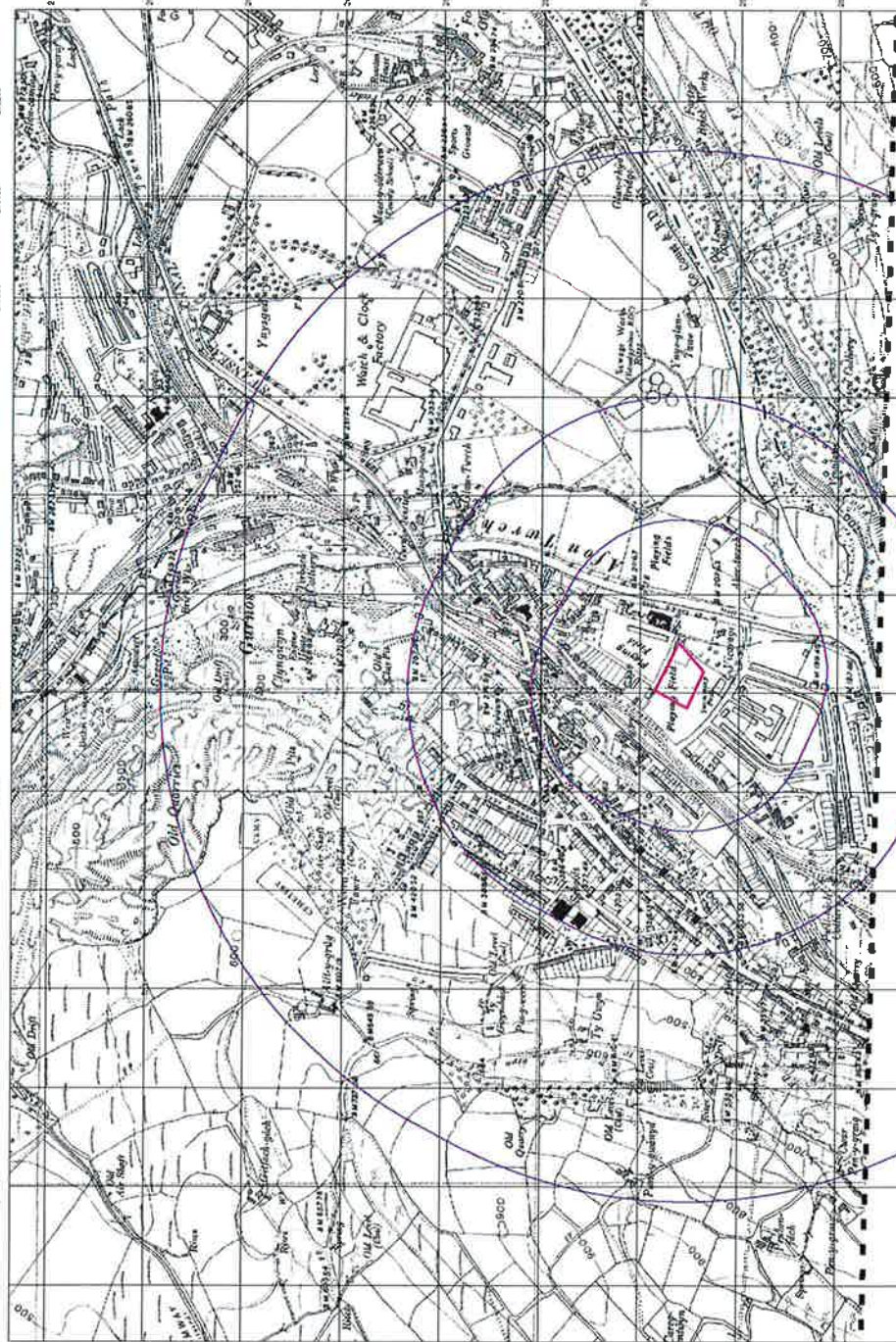


Order Details

Order Number: 48340556 1 1
Customer Ref: 815974EX - 12869
National Grid Reference: 277030, 208720
Slice: A
Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700

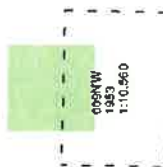


Glamorganshire Published 1953

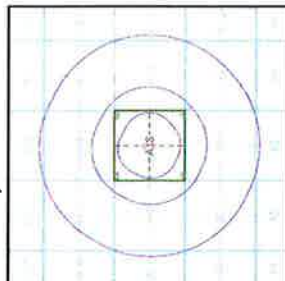
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1954 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were drawn on the Cassini Projection, with independent surveys of a single county or portion of a county. In 1938, the Ordnance Survey introduced the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 48340556.1.1
Customer Ref: 815974EX - 12869
National Grid Reference: 277030, 208720

Site: A
Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700

Ordnance Survey Plan Published 1965

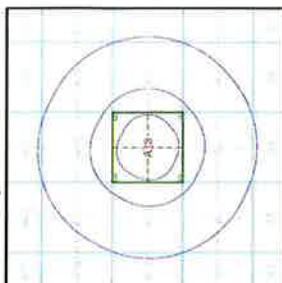
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,000 maps. The published date given therefore is often some years later than the surveyed date. Before 1936, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlining the 1:10,000 scale. A Provisional Edition was produced, which updated the 1:10,000 maps to the Transverse Mercator Projection. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SN71SE	1965
1:10,000	
SN70NE	1965
1:10,000	

Historical Map - Slice A



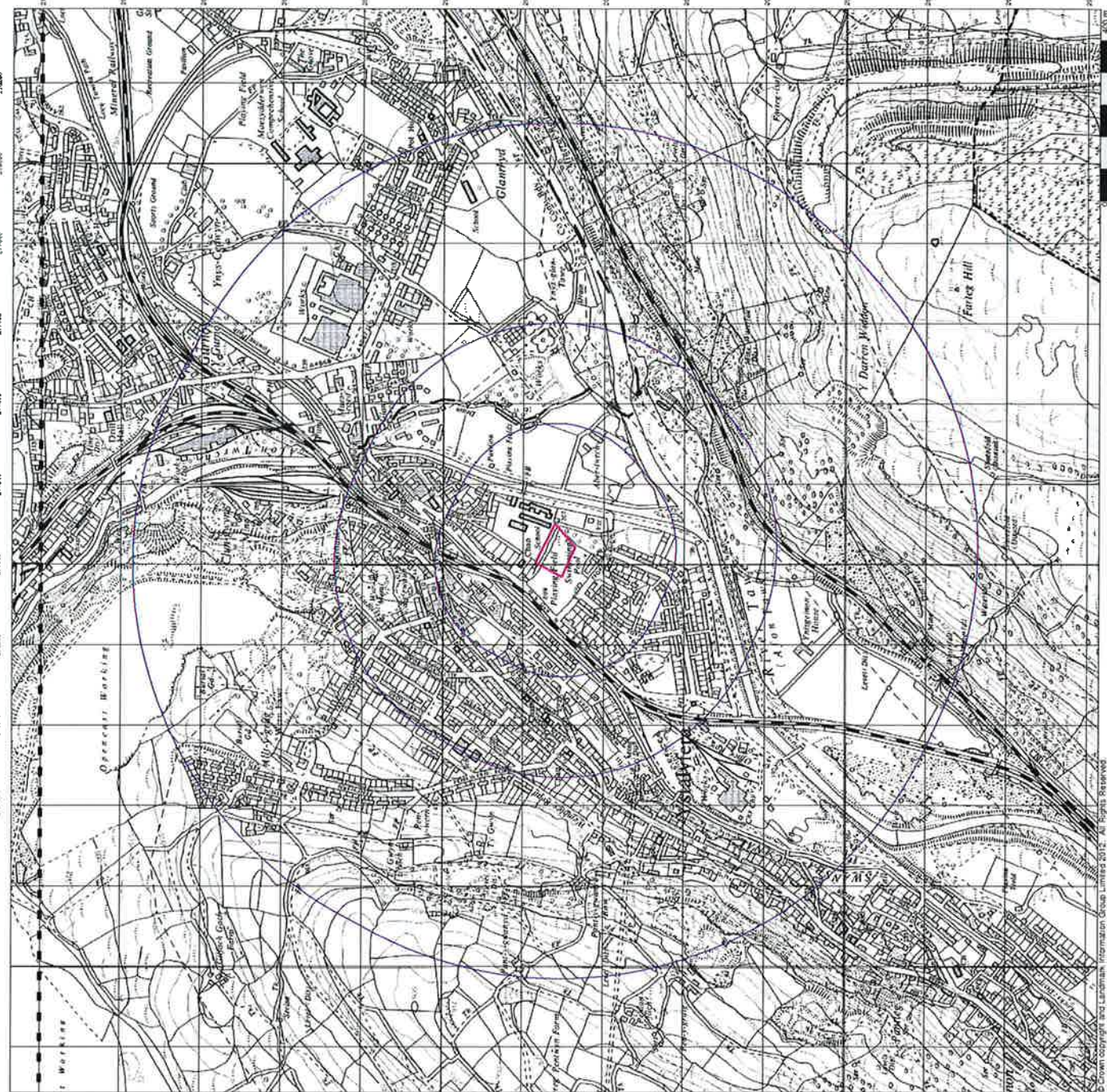
Order Details

Order Number: 48340556, 1.1
Customer Ref: B15974EX - 12869
National Grid Reference: 277030, 208720
Slice: A

Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700



Ordnance Survey Plan

Published 1981 - 1987

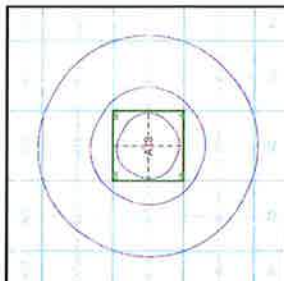
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1824 the 1:12,500 scale was adopted for mapping urban areas, these maps were used to update the 1:10,560 maps. The published data given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in a cutting country or group of counties. In 1938, a Provisional Edition was produced, which utilised the 1:10,560 scale, with all military camps and other strategic sites unaltered. In 1948, a Provisional Edition was produced, which utilised the 1:10,560 scale, with all military camps and other strategic sites unaltered. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SN71SE	1987
1:10,000	
SN70NE	1981
1:10,560	

Historical Map - Slice A

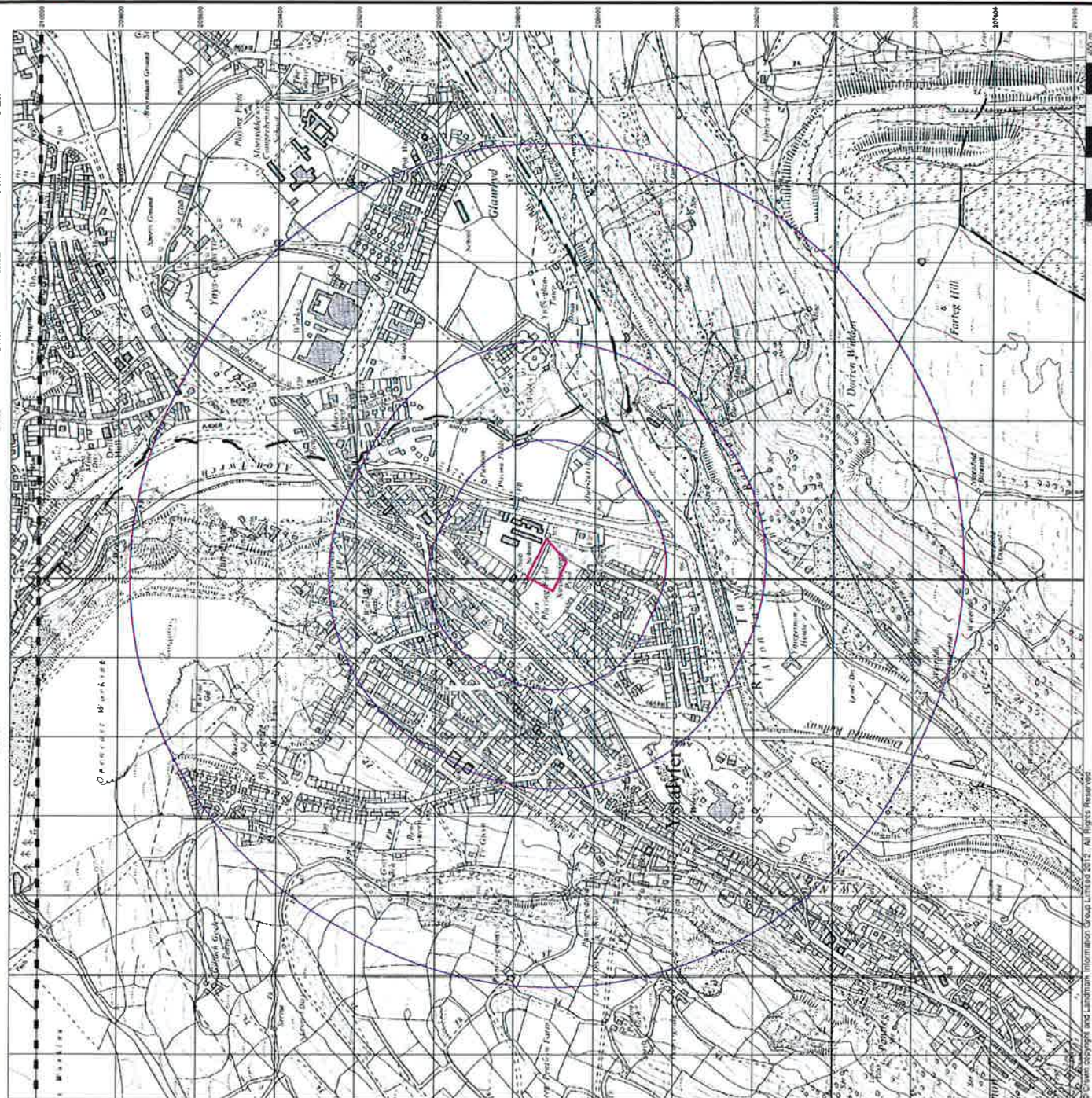


Order Details

Order Number: 48340556.1.1
Customer Ref: B15974EX - 12869
National Grid Reference: 277030, 208720
Site: A
Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700



Ordnance Survey Plan Published 1984

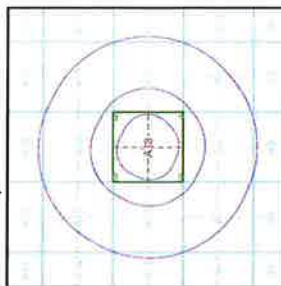
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:25,000 scale was adopted for mapping urban areas; these maps were used to update the 1:10,000 maps. The published date given therefore is often some years later than the surveyed date. Before 1958, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the earlier maps with a number of sources. The maps appear to be a mixture of the late 1940's and the late 1950's. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



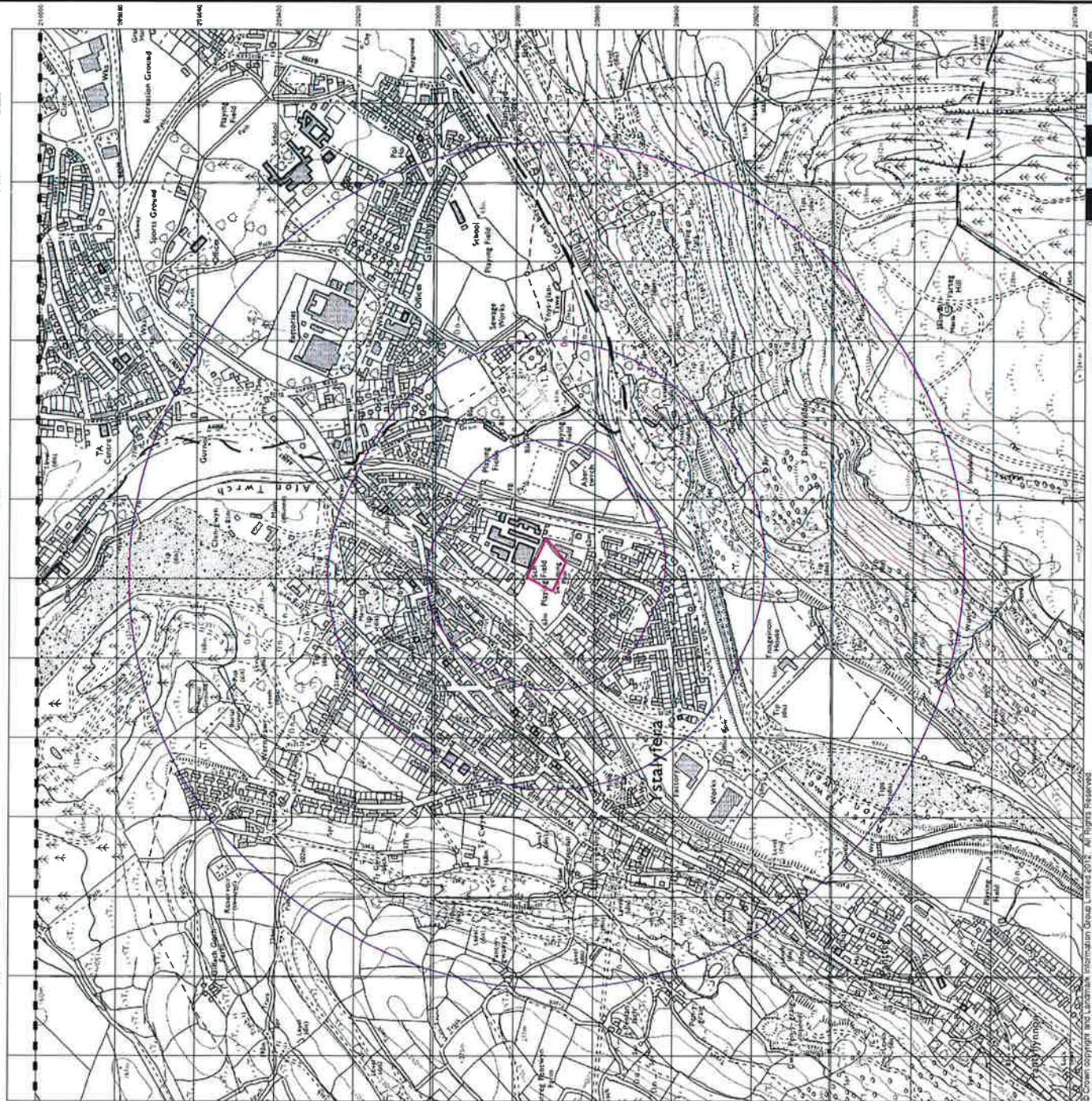
Order Details

Order Number: 48340556.1.1
Customer Ref: B15974EX - 12669
National Grid Reference: 277030, 208720

Site: A
Site Area (Ha): 0.89
Search Buffer (m): 1000

Site Details

Site at: 277030, 208700





10k Raster Mapping Published 2006

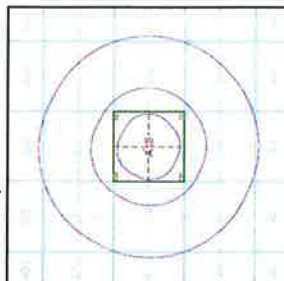
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SN71SE	2006
1:10,000	
SN70NE	2006
1:10,000	

Historical Map - Slice A



Order Details

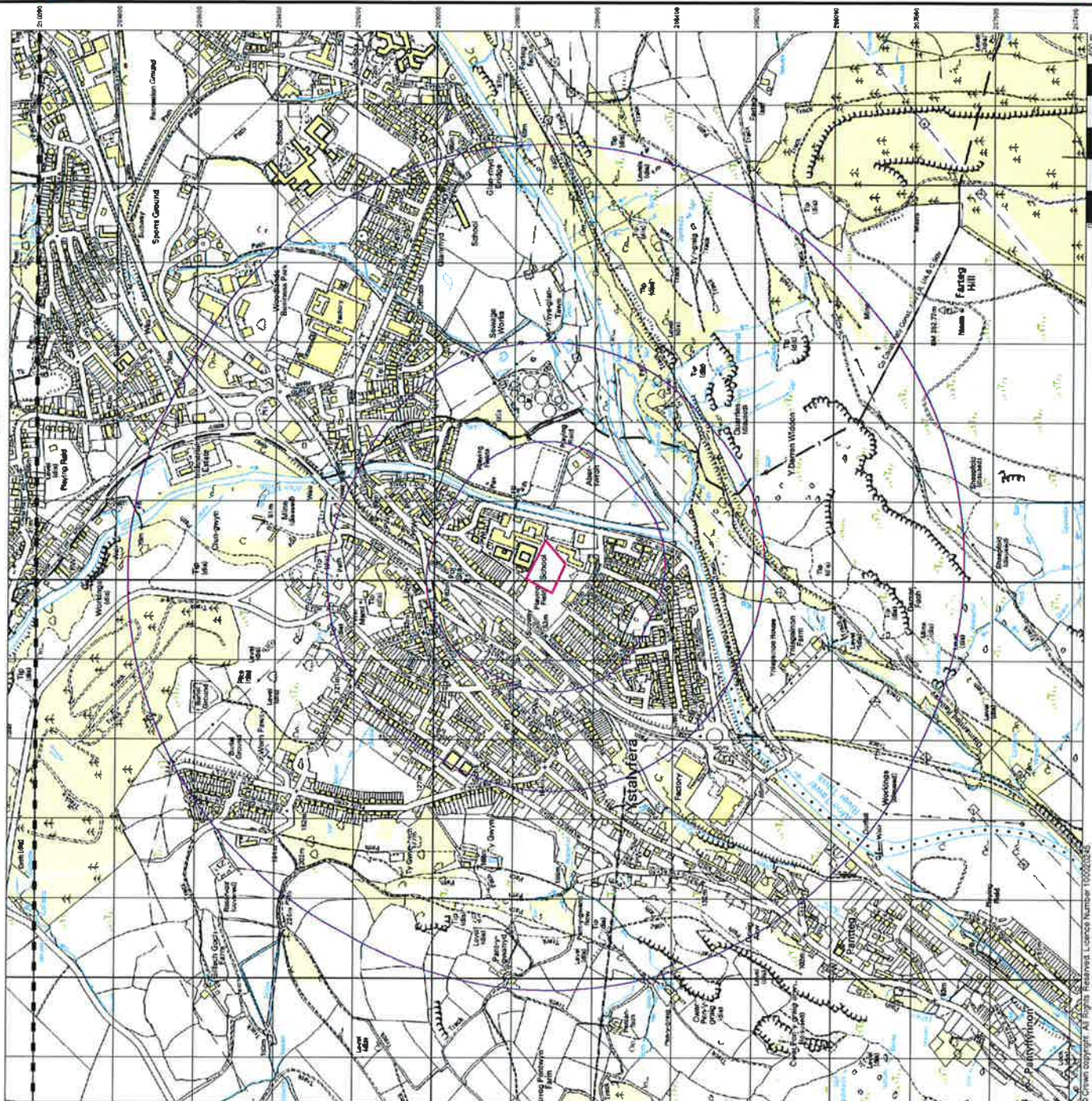
Order Number: 48340556.1.1
Customer Ref: B15974EX - 12669
National Grid Reference: 277030, 208720
Slice: A
Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700



Tel: 0944 644 6822
Fax: 0944 644 6851
Web: www.envirocheck.co.uk



10k Raster Mapping Published 2013

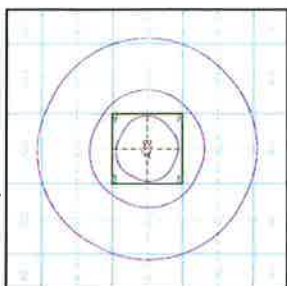
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SN71SE	2010	1:10,000
SN71NE	2010	1:10,000

Historical Map - Slice A



Order Details

Order Number: 48340556.1.1
Customer Ref: 815974EX - 12669
National Grid Reference: 277030, 208720

Site:
Site Area (Ha): 0.69
Search Buffer (m): 1000

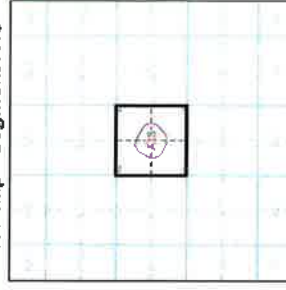
Site Details

Site at 277030, 208700



Mapping Type	Scale	Date	Pg
Breconshire	1:2,500	1878	2
Glamorganshire	1:2,500	1878	3
Breconshire	1:2,500	1889	4
Breconshire	1:2,500	1904 - 1905	5
Breconshire	1:2,500	1916	6
Ordnance Survey Plan	1:2,500	1962 - 1964	7
Ordnance Survey Plan	1:2,500	1972 - 1977	8
Additional SIMs	1:2,500	1978 - 1989	9
Additional SIMs	1:2,500	1989 - 1992	10
Additional SIMs	1:2,500	1991	11
Additional SIMs	1:2,500	1992	12
Large-Scale National Grid Data	1:2,500	1993	13
Large-Scale National Grid Data	1:2,500	1995	14

Historical Map - Segment A13



Order Details

Order Number: 48340556.1.1
 Customer Ref: B15974EX - 12869
 National Grid Reference: 277030, 208720
 Site: A
 Site Area (Ha): 0.69
 Search Buffer (m): 100

Site Details

Site at 277030, 208700

Historical Mapping Legends

Ordnance Survey County Series and
 Ordnance Survey Plan 1:2,500
 Supply of Unpublished Survey Information
 1:2,500 and 1:1,250

Active Quarry, Chalk Pit or Clay Pit	Rock	Cliff	Slopes	Top	Boulders	Glazed Roof Building	Archway	Non-Confiscated Tree (surveyed)	Non-Confiscated Trees (not surveyed)	Orchard Tree	Scrub	Reeds	Heath	Bench Mark	Antiquity (site of)	Electricity Pylon	Electricity Transmission Line	County Boundary (Geographical)	County & Civil Parish Boundary	Civil Parish Boundary	Admin. County or County Bor. Boundary	London Borough Boundary	Symbol marking point where boundary merging changes
Inactive Quarry, Chalk Pit or Clay Pit	Rock	Cliff	Slopes	Top	Boulders	Glazed Roof Building	Archway	Non-Confiscated Tree (surveyed)	Non-Confiscated Trees (not surveyed)	Orchard Tree	Scrub	Reeds	Heath	Bench Mark	Antiquity (site of)	Electricity Pylon	Electricity Transmission Line	County Boundary (Geographical)	County & Civil Parish Boundary	Civil Parish Boundary	Admin. County or County Bor. Boundary	London Borough Boundary	Symbol marking point where boundary merging changes
BH, BS, Boundary Post or Stone	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann
CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann
CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann	CH, C, Chalky, Crann

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

Quarry	Gravel Pit	Sand Pit	Refuse Heap	Flat Rock	Marsh	Reeds	Wood	Mixed Wood	Fir	Ferry	Thg. Station	Bench Mark	Arrow denotes flow of water	Antiquities (site of)	Cutting	Enbankment	Road crossing Railway	Level Crossing	Road over single stream	Road over River or Canal	County Boundary (Geographical)	County & Civil Parish Boundary	Administrative County & Civil Parish Boundary	County Borough Boundary (England)	County Borough Boundary (Scotland)
Quarry	Gravel Pit	Sand Pit	Refuse Heap	Flat Rock	Marsh	Reeds	Wood	Mixed Wood	Fir	Ferry	Thg. Station	Bench Mark	Arrow denotes flow of water	Antiquities (site of)	Cutting	Enbankment	Road crossing Railway	Level Crossing	Road over single stream	Road over River or Canal	County Boundary (Geographical)	County & Civil Parish Boundary	Administrative County & Civil Parish Boundary	County Borough Boundary (England)	County Borough Boundary (Scotland)
Quarry	Gravel Pit	Sand Pit	Refuse Heap	Flat Rock	Marsh	Reeds	Wood	Mixed Wood	Fir	Ferry	Thg. Station	Bench Mark	Arrow denotes flow of water	Antiquities (site of)	Cutting	Enbankment	Road crossing Railway	Level Crossing	Road over single stream	Road over River or Canal	County Boundary (Geographical)	County & Civil Parish Boundary	Administrative County & Civil Parish Boundary	County Borough Boundary (England)	County Borough Boundary (Scotland)
Quarry	Gravel Pit	Sand Pit	Refuse Heap	Flat Rock	Marsh	Reeds	Wood	Mixed Wood	Fir	Ferry	Thg. Station	Bench Mark	Arrow denotes flow of water	Antiquities (site of)	Cutting	Enbankment	Road crossing Railway	Level Crossing	Road over single stream	Road over River or Canal	County Boundary (Geographical)	County & Civil Parish Boundary	Administrative County & Civil Parish Boundary	County Borough Boundary (England)	County Borough Boundary (Scotland)

Brecknockshire Published 1878

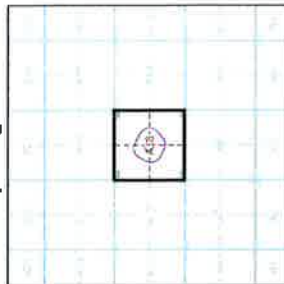
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1892 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published data given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini projection, which introduced distortions of a single county or group of counties, giving rise to significant inaccuracies in boundary areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

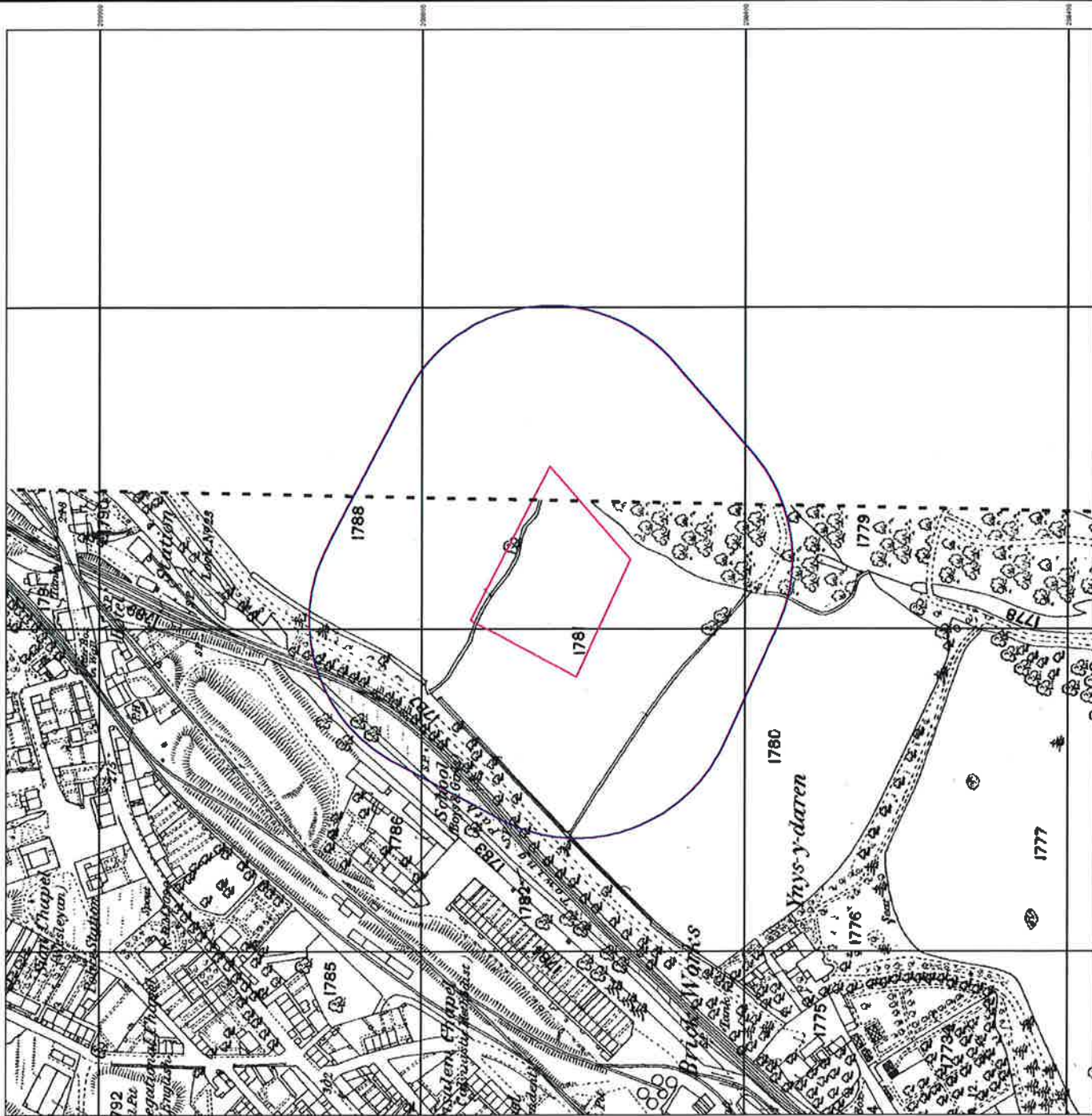


Order Details

Order Number: 48340556_1_1
Customer Ref: B15974EX - 12869
National Grid Reference: 277030, 208720
Site: A
Site Area (Ha): 0.69
Search Buffer (m): 100

Site Details

Site at 277030, 208700



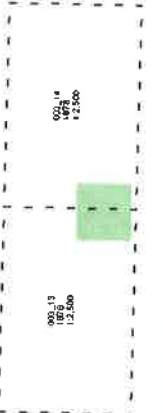
Glamorganshire

Published 1878

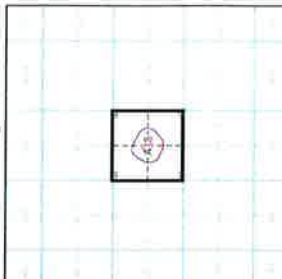
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1898 it covered the whole of what was considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1838, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 48340556.1.1

Customer Ref: B15974EX - 12689

National Grid Reference: 277030, 206720

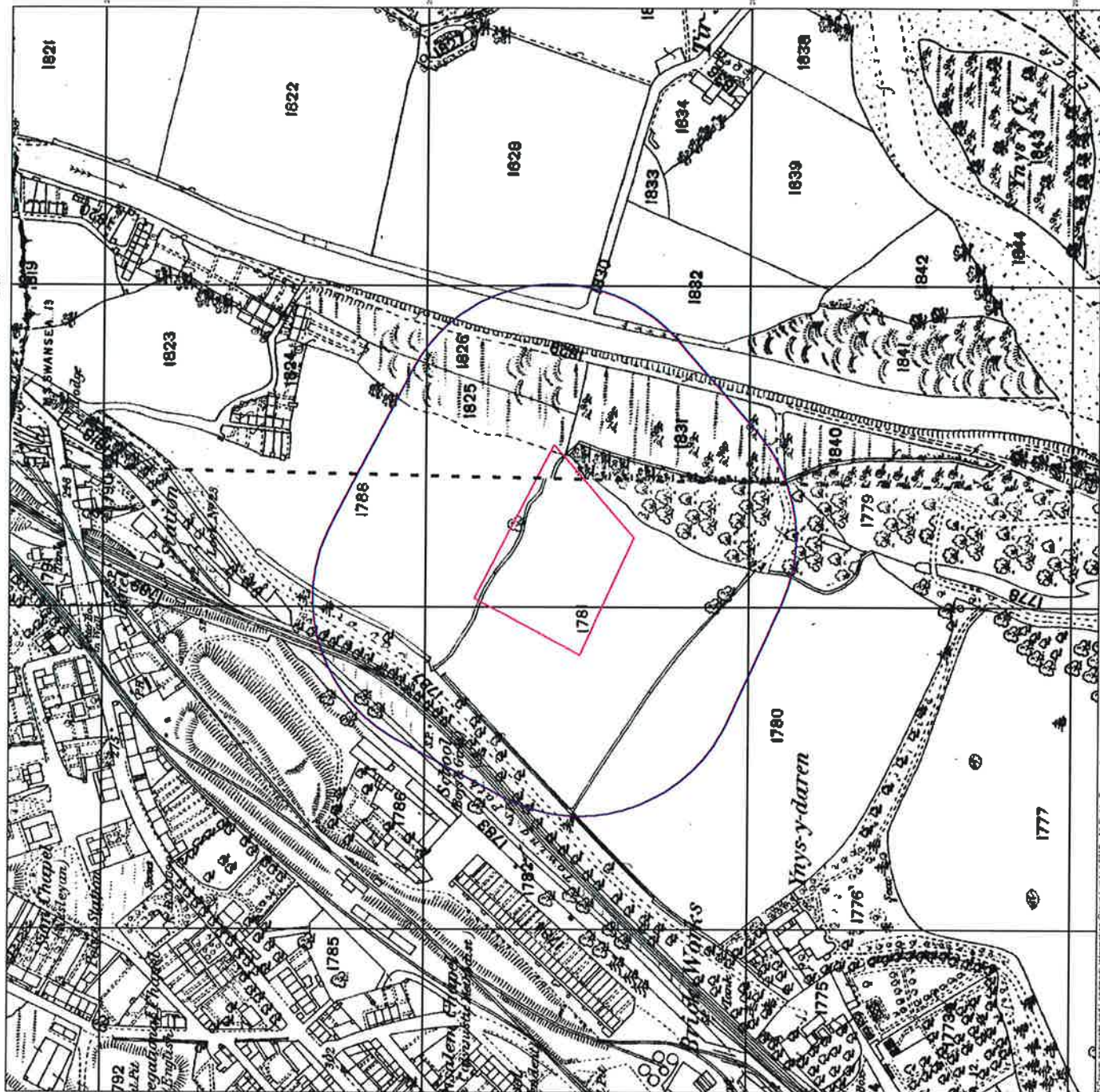
Site: A

Site Area (Ha): 0.69

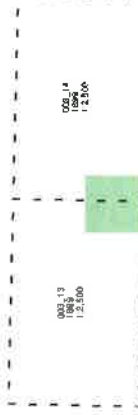
Search Buffer (m): 100

Site Details

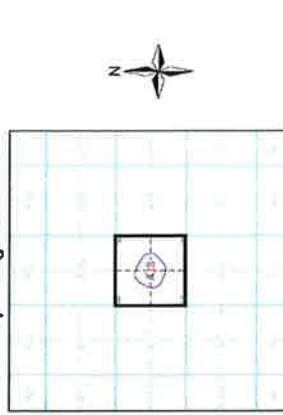
Site at 277030, 206700



Map Name(s) and Date(s)



Historical Map - Segment A13

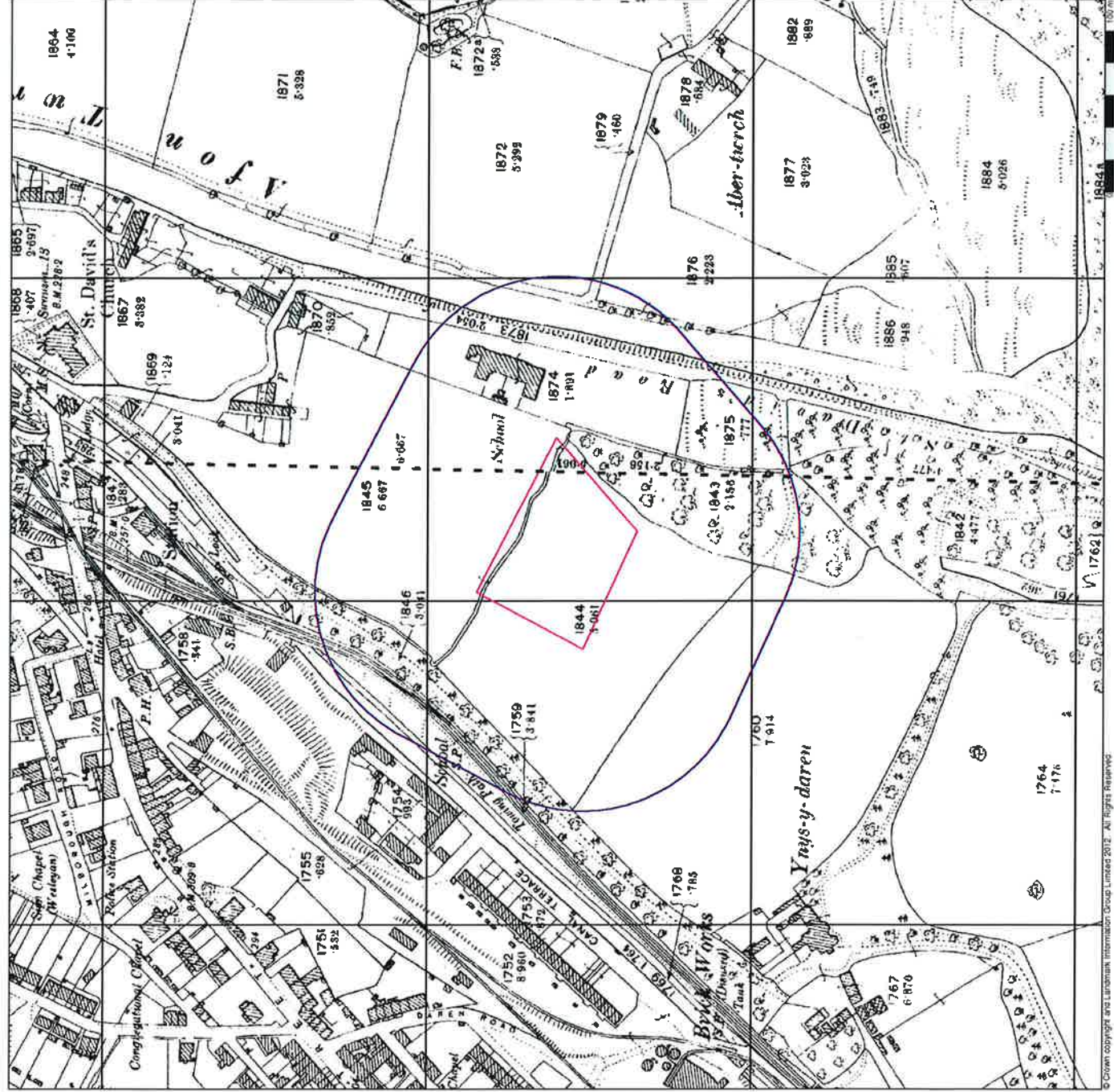


Order Details

Order Number: 48340556.1.1
Customer Ref: B15974EX - 12669
National Grid Reference: 277030, 208720
Site: A
Site Area (Ha): 0.69
Search Buffer (m): 100

Site Details

Site at 277030, 208700





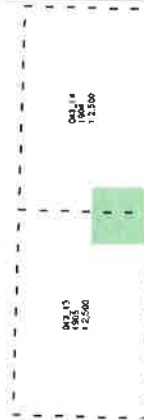
Brecknockshire

Published 1904 - 1905

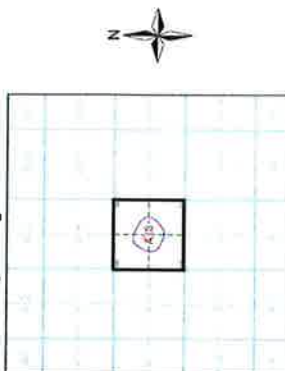
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1886 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 48340556 1 1
Customer Ref: 815974EX - 12869
National Grid Reference: 277030, 208720
Site: A
Site Area (Ha): 0.69
Search Buffer (m): 100

Site Details

Site at 277030, 208700



Tel: 0844 644 1952
Fax: 0844 644 9851
Web: www.envirocheck.co.uk

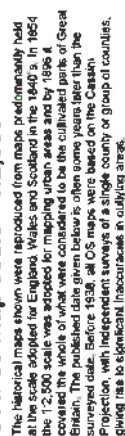
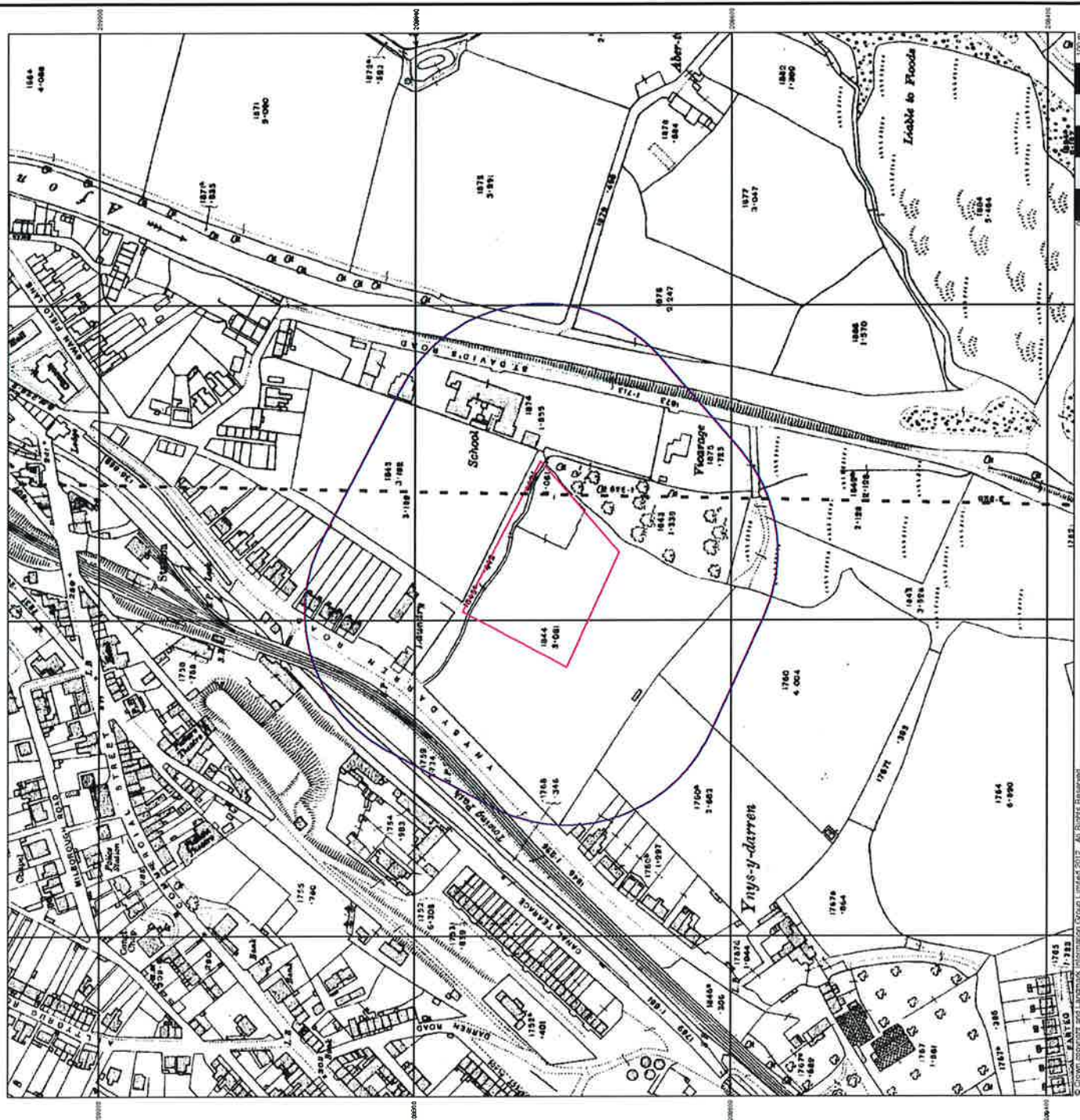


Figure 1 illustrates a two-stage sampling process. The population is represented by a dashed rectangle, divided into two horizontal sections. The top section is labeled '60% 14' and contains a small green square. The bottom section is labeled '40% 17' and contains a larger green square. A dashed line separates the two sections.

Site Details
Site at 277030, 208700



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Ordnance Survey Plan

Published 1962 - 1964

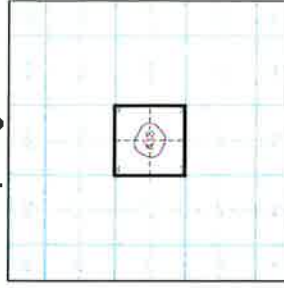
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas and by 1962 it covered the whole of what was considered to be the calibrated parts of Great Britain. This whole of what was considered to be the calibrated parts of Great Britain was surveyed before 1938. All OS maps are based on the datum of 1936, which is a projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in surveying areas.

Map Name(s) and Date(s)

SN7609	SN7709
1962	1964
1:2,500	1:2,500

Historical Map - Segment A13



Order Details

Order Number: 48340556_1_1
Customer Ref: B15974EX - 12669
National Grid Reference: 277030, 208720

Site Area (Ha): 0.69
Search Buffer (m): 100

Site Details

Site at 277030, 208700





Ordnance Survey Plan Published 1972 - 1977

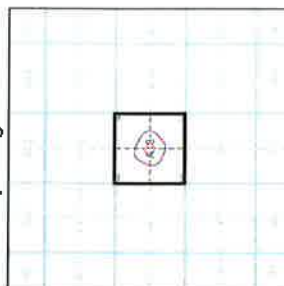
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas and by 1956 it covered the whole of what were considered to be the calibrated parts of Great Britain. The published data given below is often some years later than the surveyed data. Before 1950, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SN7160	SN716
1972	1972
1:2,500	1:2,500
SN7048	SN704
1972	1972
1:2,500	1:2,500

Historical Map - Segment A13



Order Details

Order Number: 48340556, 1.1
Customer Ref: B15974EX - 12689
National Grid Reference: 277030, 208720

Site:
Site Area (Ha): 0.69
Search Buffer (m): 100

Site Details
Site at 277030, 208700



Tel: 0844 844 9852
Fax: 0844 844 9851
Web: www.envirocheck.co.uk



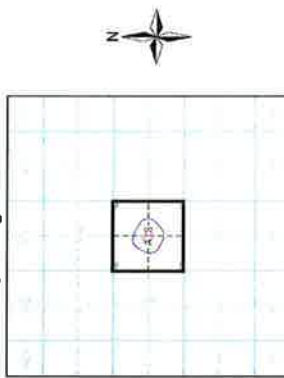
Additional SIMs Published 1978 - 1989 Source map scale - 1:2,500

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

Map Name(s) and Date(s)

S87709	1.2.500
S87708	1.2.500

Historical Map - Segment A13

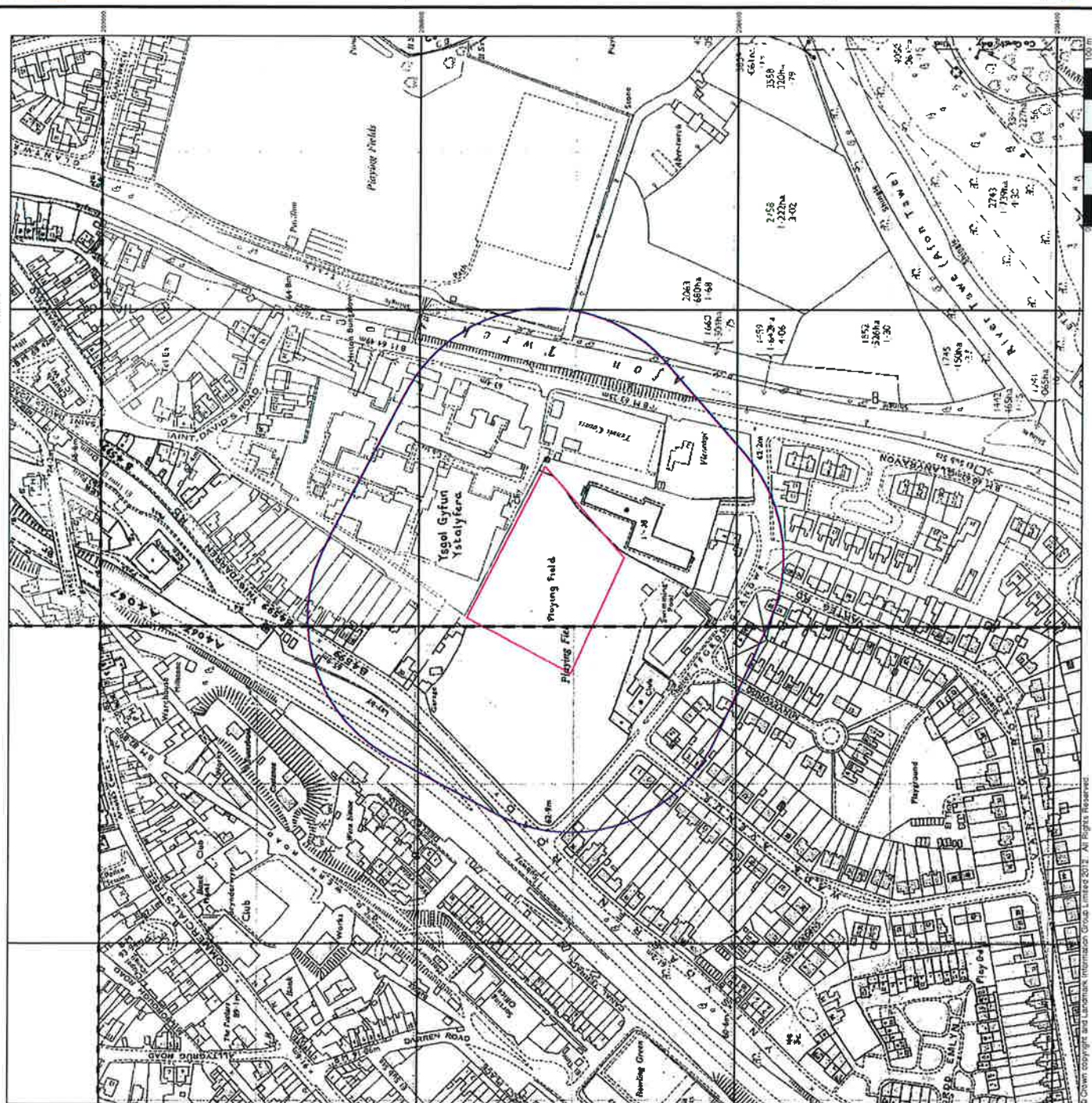


Order Details

Order Number: 48340556.1.1
Customer Ref: 815974EX - 12869
National Grid Reference: 277030, 208720
Site: A
Site Area (Ha): 0.69
Search Buffer (m): 100

Site Details

Site at 277030, 208700



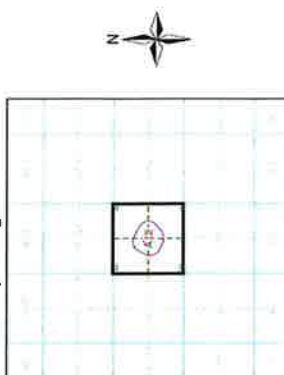
Additional SIMs
Published 1989 - 1992
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SN7703	1989	1:2,500
SN7706	1992	1:2,500

Historical Map - Segment A13

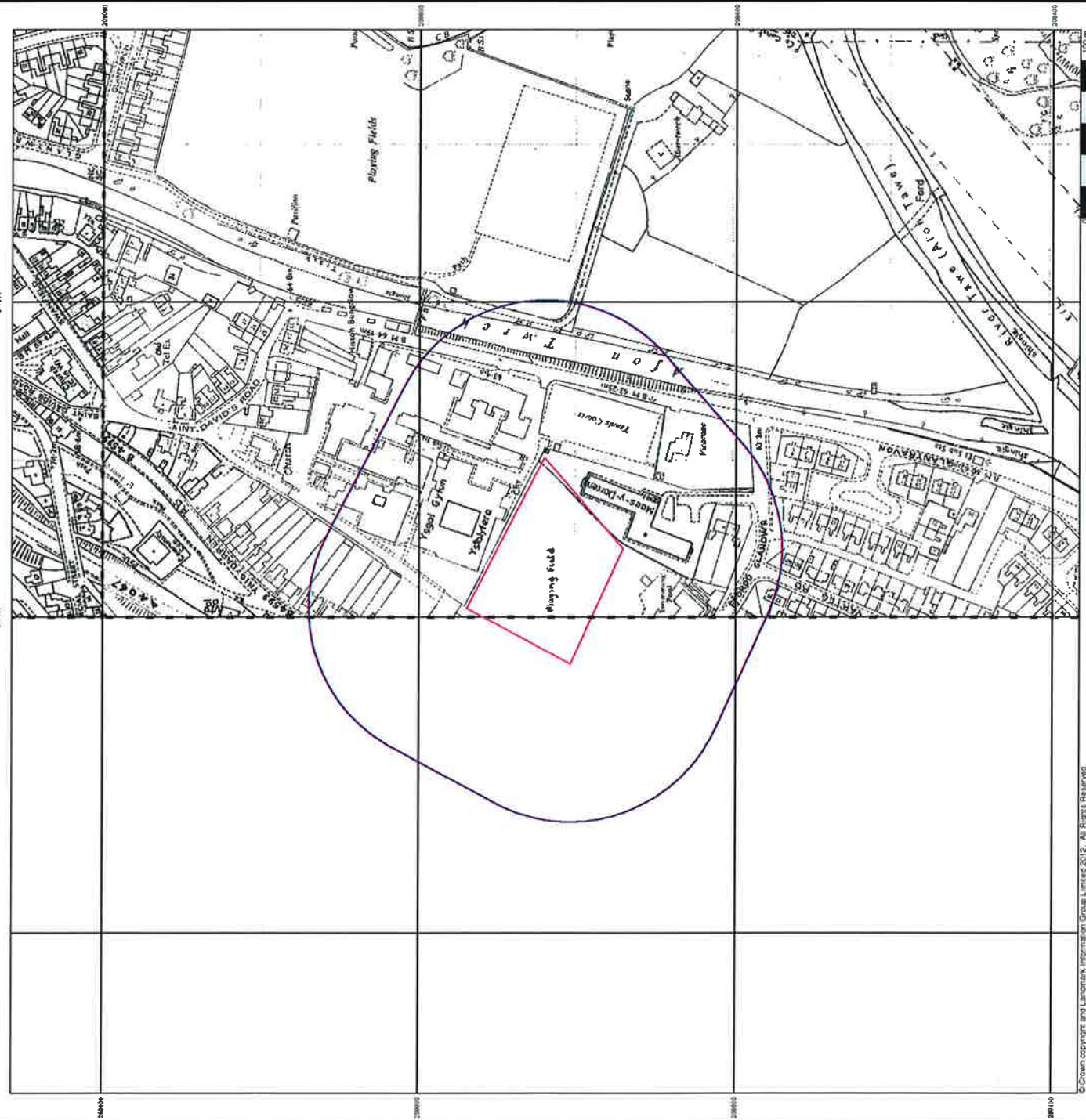


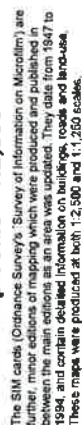
Order Details

Order Number: 48340556.1.1
 Customer Ref: 815974EX - 12659
 National Grid Reference: 277030, 208720

Site: A
 Site Area (Ha): 0.69
 Search Buffer (m): 100

Site Details
 Site at 277030, 208700





641709
1591
12500

Order Number: 48340556_1_1
Customer Ref: 815974EX - 12869
National Grid Reference: 277030, 208720
Bike: A
Site Area (Ha): 0.68
Search Buffer (m): 100

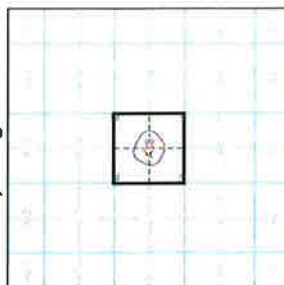
Site at 277030, 200700



Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 48340556_1.1
Customer Ref: B15974EX - 12869
National Grid Reference: 277030, 208720
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

Site at 277030, 208700



Tel. 0844 644 9952
Fax 0844 644 9951
Web www.ginvinformatics.co.uk



Large-Scale National Grid Data

Published 1993

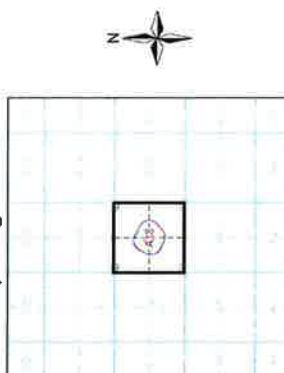
Source map scale - 1:2,500

Large Scale National Grid Data: superimposed 5 km cards (Ordinance Survey's Survey of Information on Microfilm) in 1992, and continued to be produced until 1989. These maps were the first users of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SN7609	SN7709
1993	1993
12,500	12,500

Historical Map - Segment A13



Order Details

Order Number: 48340556_1_1
Customer Ref: B15974EX - 12869
National Grid Reference: 277030, 208720

Slice:	A
Site Area (Ha):	0.69
Search Buffer (m):	100

Site Details

Site at 277030, 208700



Tel: 0844 844 9952
Fax: 0844 944 9951
Web: www.gwinc.org.uk

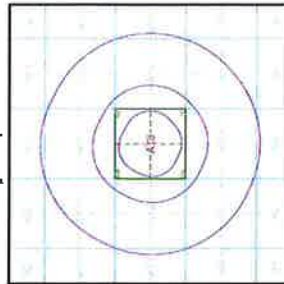
A Landmark Information Group Service v47.0 13-Aug-2013 Page 13 of 14



APPENDIX IV – LANDMARK ENVIROCHECK REPORT

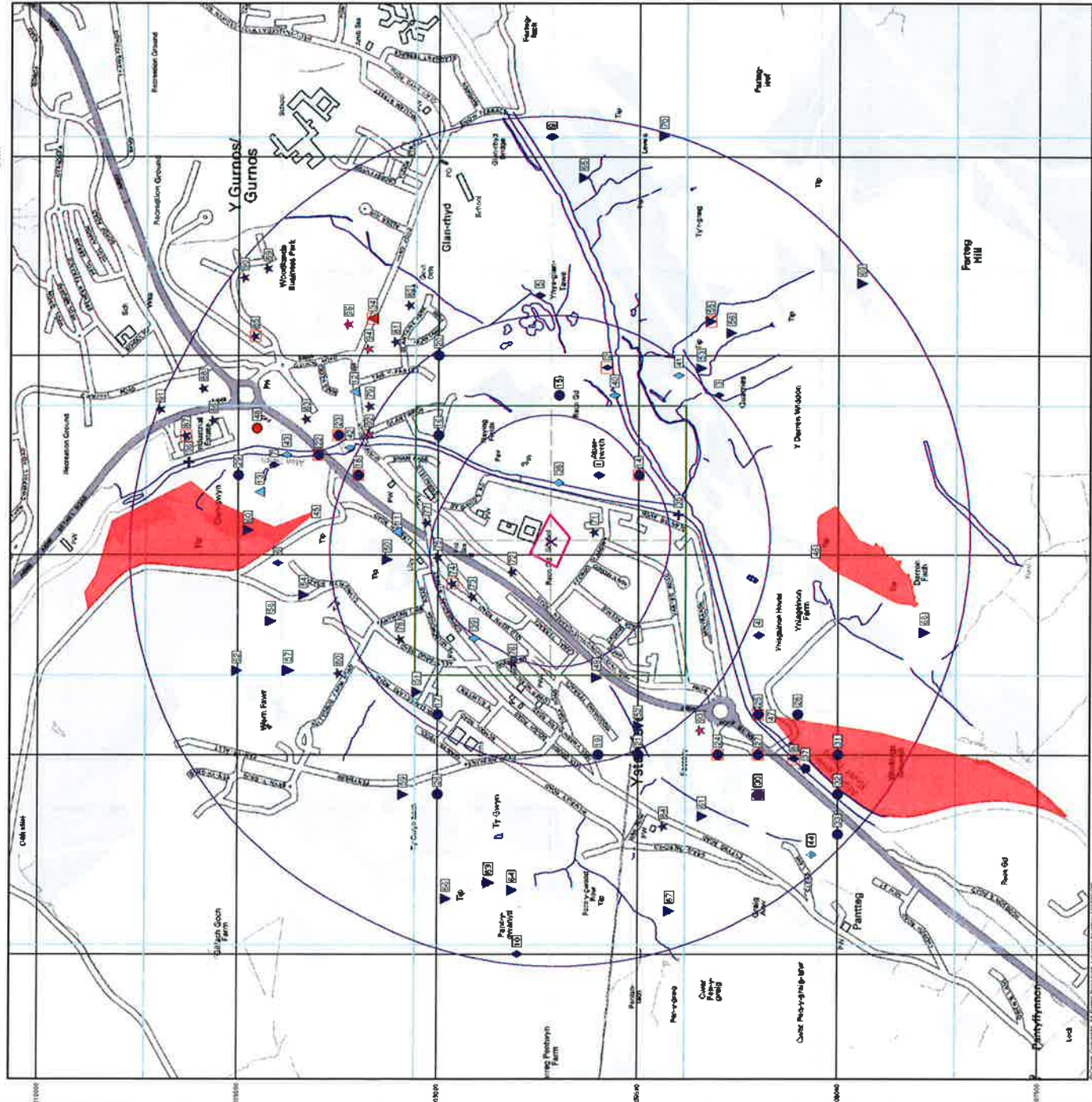
- General**
- Specified Site
 - Search Buffer (m)
 - Map D
- Waste**
- Waste Transfer Station (WTS)
 - Waste Transfer Station (WTS) - Landfill
 - Waste Transfer Station (WTS) - Incinerator
 - Waste Transfer Station (WTS) - Composting
 - Waste Transfer Station (WTS) - Recycling
 - Waste Transfer Station (WTS) - Other
- Agency and Hydrological**
- Conservation Area
 - Conservation Area - Landmark
 - Conservation Area - Other
 - Conservation Area - Other
 - Conservation Area - Other
 - Conservation Area - Other
- Geological**
- Geological Hazard
 - Geological Hazard - Landmark
 - Geological Hazard - Other
 - Geological Hazard - Other
 - Geological Hazard - Other
 - Geological Hazard - Other
- Hazardous Substances**
- Hazardous Substances
 - Hazardous Substances - Landmark
 - Hazardous Substances - Other
 - Hazardous Substances - Other
 - Hazardous Substances - Other
 - Hazardous Substances - Other
- Industrial Land Use**
- Industrial Land Use
 - Industrial Land Use - Landmark
 - Industrial Land Use - Other
 - Industrial Land Use - Other
 - Industrial Land Use - Other
 - Industrial Land Use - Other

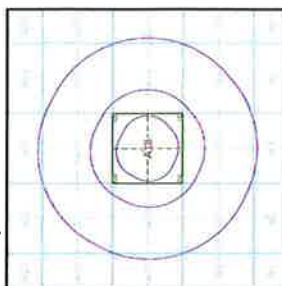
Site Sensitivity Map - Slice A



Order Details

Order Number: 48340556.1.1
 Customer Ref: B15974EX - 12869
 National Grid Reference: 277030, 208720
 Site: A
 Site Area (Ha): 0.69
 Search Buffer (m): 1000
 Site Details
 Site at 277030, 208700



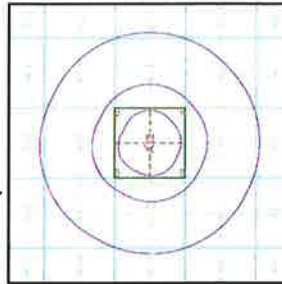
Site Details
Site at 277030, 208700

- General**
- Standard Site
 - Specialist Borehole
 - Existing Borehole Point
 - Map ID
 - Search at Type & Location
- Agency and Hydrological (Boreholes)**
- ESD Borehole Depth 0 - 10m
 - ESD Borehole Depth 10 - 20m
 - ESD Borehole Depth 20m +
 - Confidential
 - Other

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

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

Borehole Map - Slice A

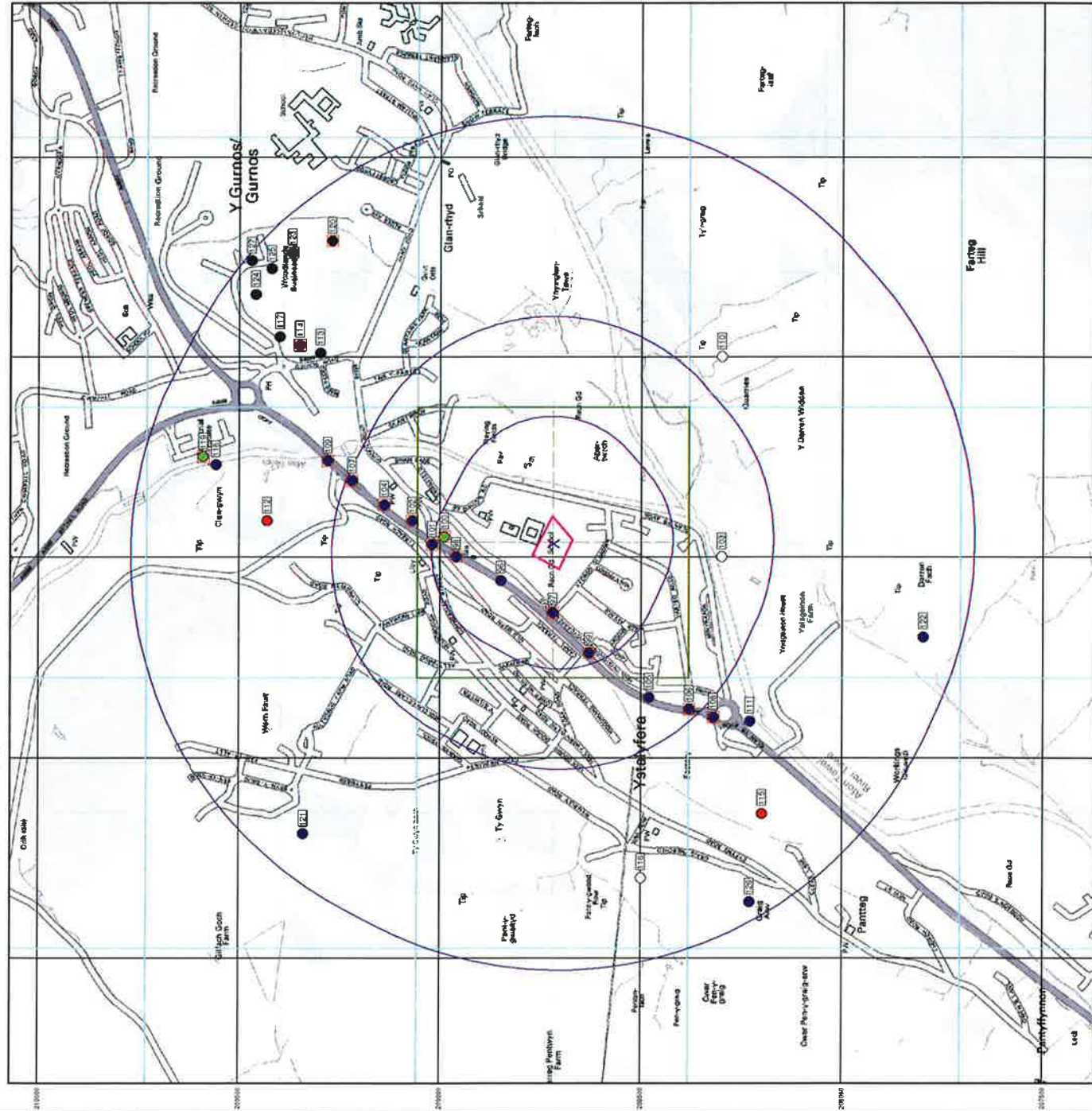


Order Details

Order Number: 48340558.1.1
 Customer Ref: 815974EX - 12869
 National Grid Reference: 277030, 208720
 Slice: A
 Site Area (Ha): 0.69
 Search Buffer (m): 1000

Site Details

Site at 277030, 208700



General

Speedy Publishing Inc.

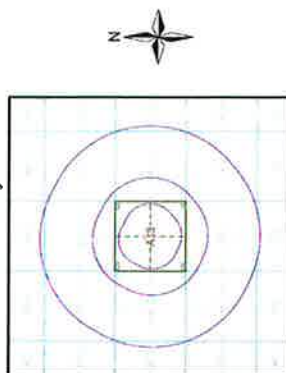
X **Security Policy and Plans**

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details: 48340556_1_1

Original Details: 48340330-1-
Customer Ref: 815974EX-12869

National Grid Reference: 277030, 208720

Slice: A

Site Area (Ha): 0.69

Site Details

Site at 277030, 208700



Tel: 0363 848 8952
Fax: 0644 348 9251
Web: www.enyoitech.co.uk

General

Specified Site

Specified Buffer(s)

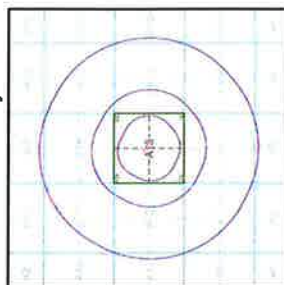
Receiving Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 48340556, 1.1
Customer Ref: B15974EX-12869
National Grid Reference: 277030, 208720
Site: A
Site Area (Ha): 0.69
Search Buffer (m): 1000

Site Details

Site at 277030, 208700

General

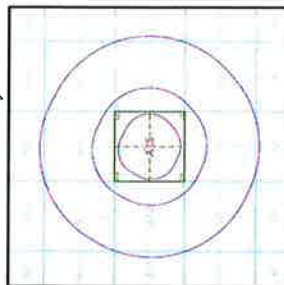
☒ Scheduled site ☒ Specified Burial (S) ☒ Sealing Remediation Part

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 48340556_1_1
 Customer Ref: B15974EX - 12069
 National Grid Reference: 277030, 208720

Slice: A
 Site Area (Haj): 0.69
 Search Buffer (m): 1000

Site Details

Site at 277030, 208700



General

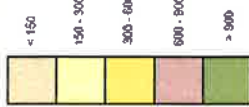
Selected Site

Selected Buffer(s)

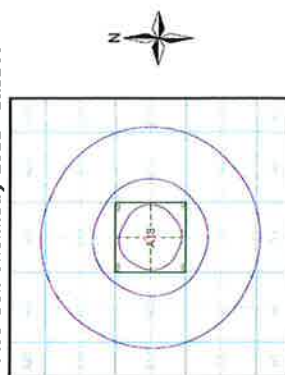
Existing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details: 48340556, 1.1
 Customer Ref: B15974EX - 12659
 National Grid Reference: 277030, 208720
 Site: A
 Site Area (Ha): 0.69
 Search Buffer (m): 1000

Site Details

Site at 277030, 208700



General

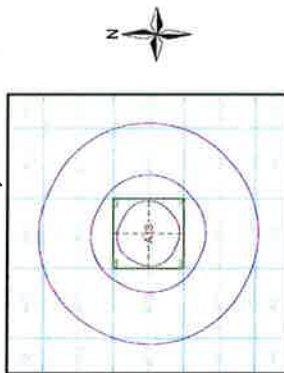
 Specified Site
 Specified Buffer(s)
 Shoring Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 48340556, 1, 1
 Customer Ref: B15974EX - 12689
 National Grid Reference: 277030, 206720
 Site: A
 Site Area (Ha): 0.69
 Search Buffer (m): 1000

Site Details

Site at 277030, 206700



Bedrock Aquifer Designation

General

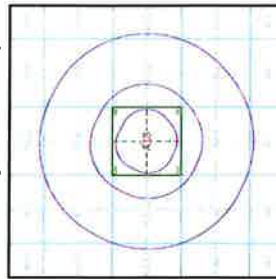
- Agency and Hydrological Geological Classes**
- Specified Site  Specified Buffer(s)  Bearing Reference Point 
- Slice  Map ID 

Agency and Hydrological

Geological Class 2023

- | | |
|---|----------------------------|
|  | Principal Aquifer |
|  | Secondary A Aquifer |
|  | Secondary B Aquifer |
|  | Secondary Undifferentiated |
|  | Unproductive Strata |
|  | Unknown |

Site Sensitivity Context Map - Slice A



Order Details

Order Design:
Order Number:
Customer Ref:
National Grid Reference:
Site:
Site Area (Ha):
Search Buffer (m):

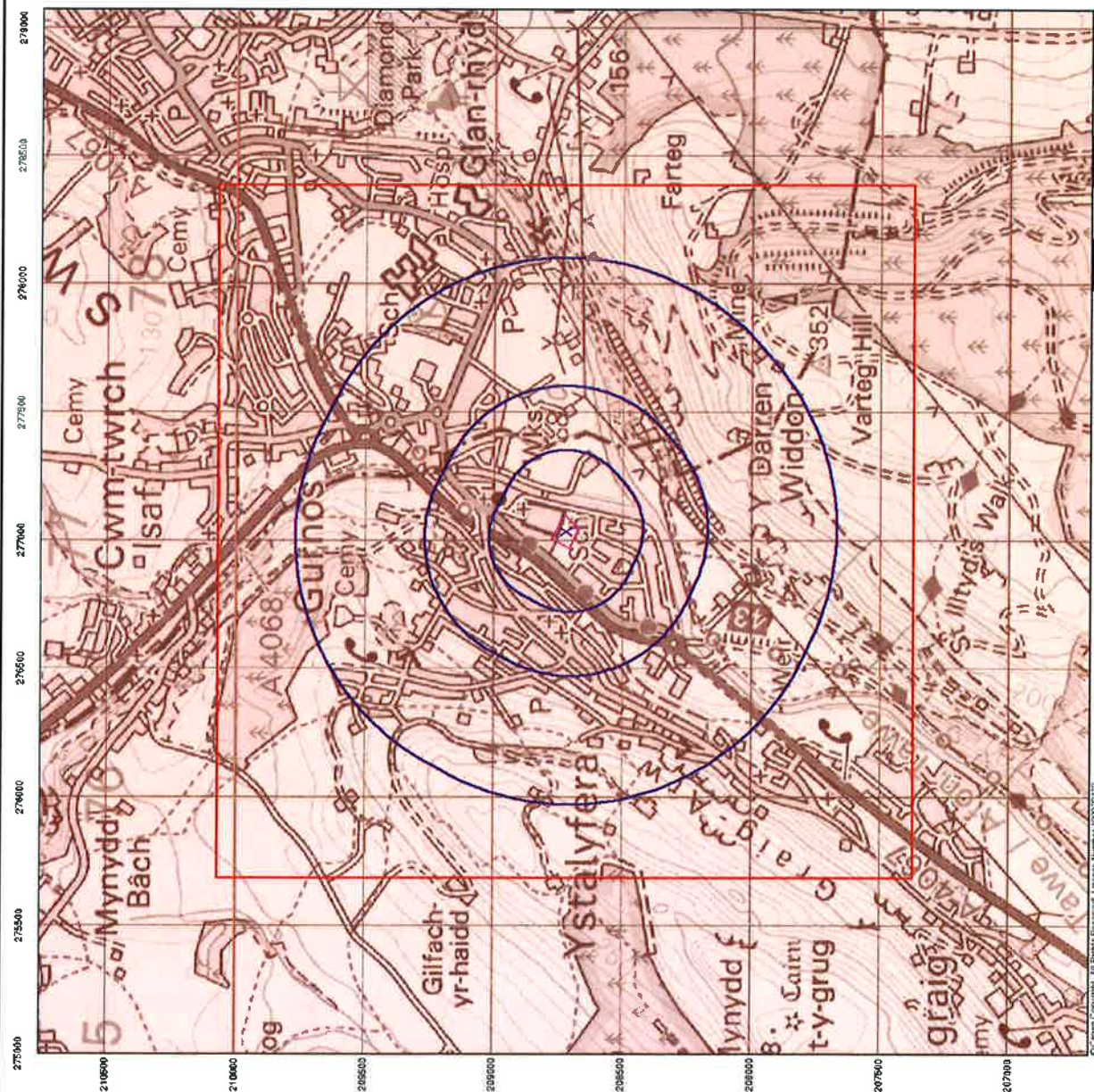
Site Details

Site at 277030, 208700



Tel: 0845 844 9352
Fax: 0844 844 9351
Web: www.cornridge.co.uk

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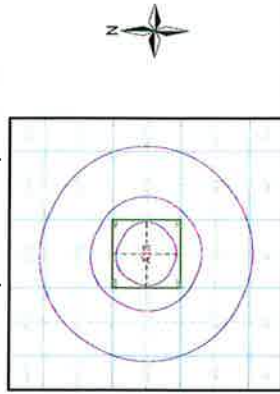


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Superficial Aquifer Designation

- General**
- Specified Site
 - Specified Buffer (m)
 - Bearing Reference Point
 - Site
 - Map ID
- Agency and Hydrological**
- Geological Classes**
- Principal Aquifer
 - Secondary A Aquifer
 - Secondary B Aquifer
 - Secondary Undifferentiated
 - Unproductive Strata
 - Unknown

Site Sensitivity Context Map - Slice A

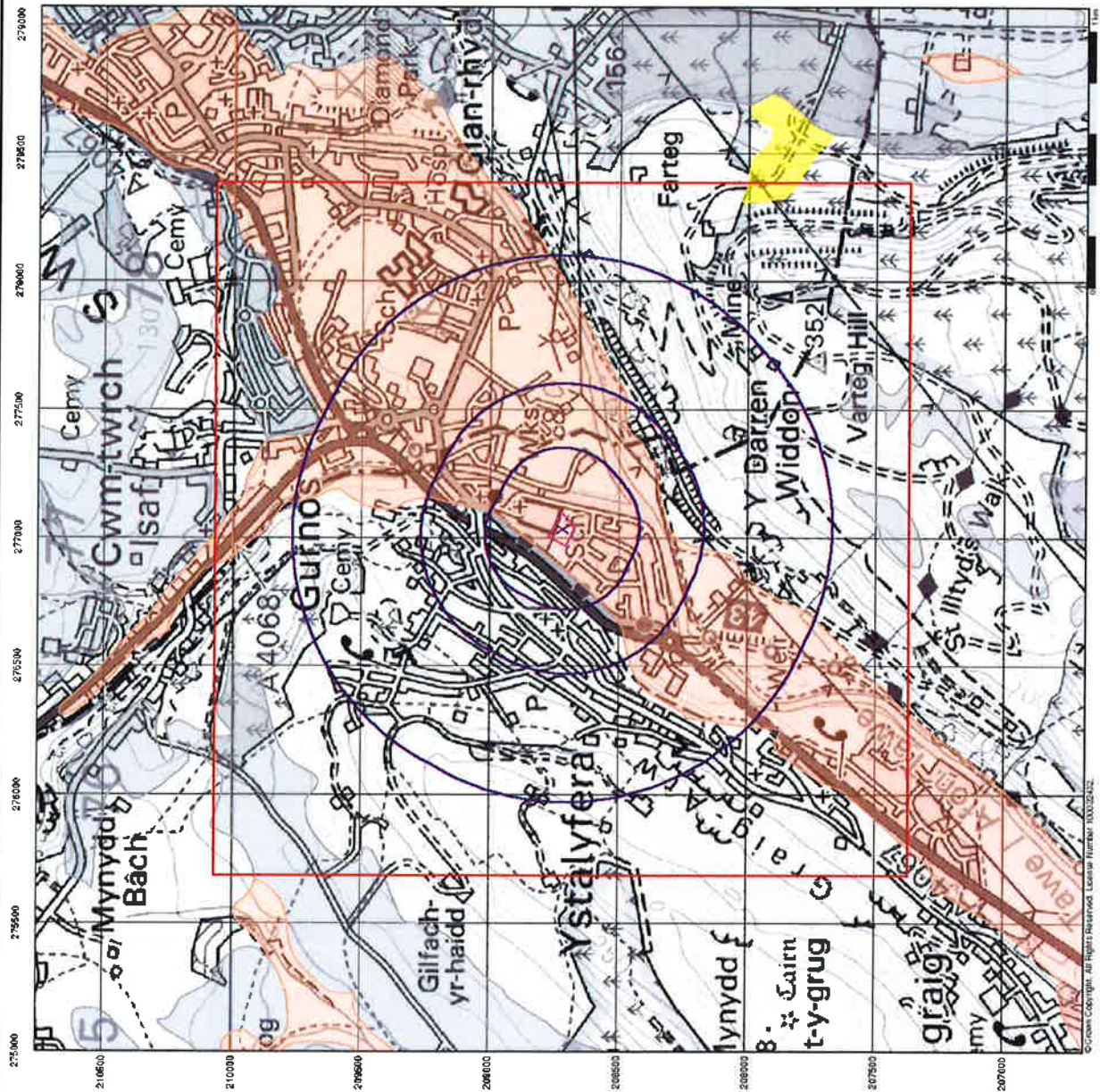


Order Details

Order Number: 48340556_1.1
 Customer Ref: B15974EX - 12869
 National Grid Reference: 277030, 208720
 Slice: A
 Site Area (Ha): 0.69
 Search Buffer (m): 1000

Site Details

Site at 277030, 208700



Source Protection Zones

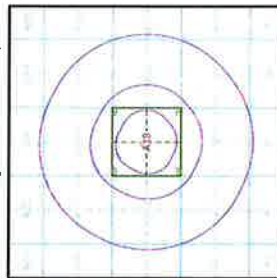
General

- | Specified Site | Specified Buffer(s) | Beating Reference Point |
|---|---|---|
|  |  |  |
|  |  |  |
| Site | Map ID | |

Agency and Hydrological

-  Source Protection Zone I
-  Source Protection Zone II
-  Source Protection Zone III
-  Zone of Special Interest
-  Source Protection Zone Bufferbols

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 48340556_1.1
Customer Ref: B15974EX - 12869
National Grid Reference: 277030, 208720
Site Area: A
Site Area (Ha): 0.68
Search Buffer (m): 1000

Site Details

Site at 277030, 208700

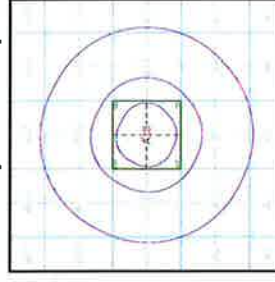


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Sensitive Land Uses

- General**
- Specified Site
 - Site
 - Map ID
 - Specified Buffer(s)
 - Bearing Reference Point
- Sensitive Land Uses**
- Area of Adopted Green Belt
 - Area of Undeveloped Green Belt
 - Area of Outstanding Natural Beauty
 - Environmentally Sensitive Area
 - Forest Park
 - Local Nature Reserve
 - Marine Nature Reserve
 - National Nature Reserve
 - National Park
 - Norfolk Sensitive Area
 - Norfolk Vulnerable Zone
 - Ramsar Site
 - Site of Special Scientific Interest
 - Special Area of Conservation
 - Special Protection Area

Site Sensitivity Context Map - Slice A

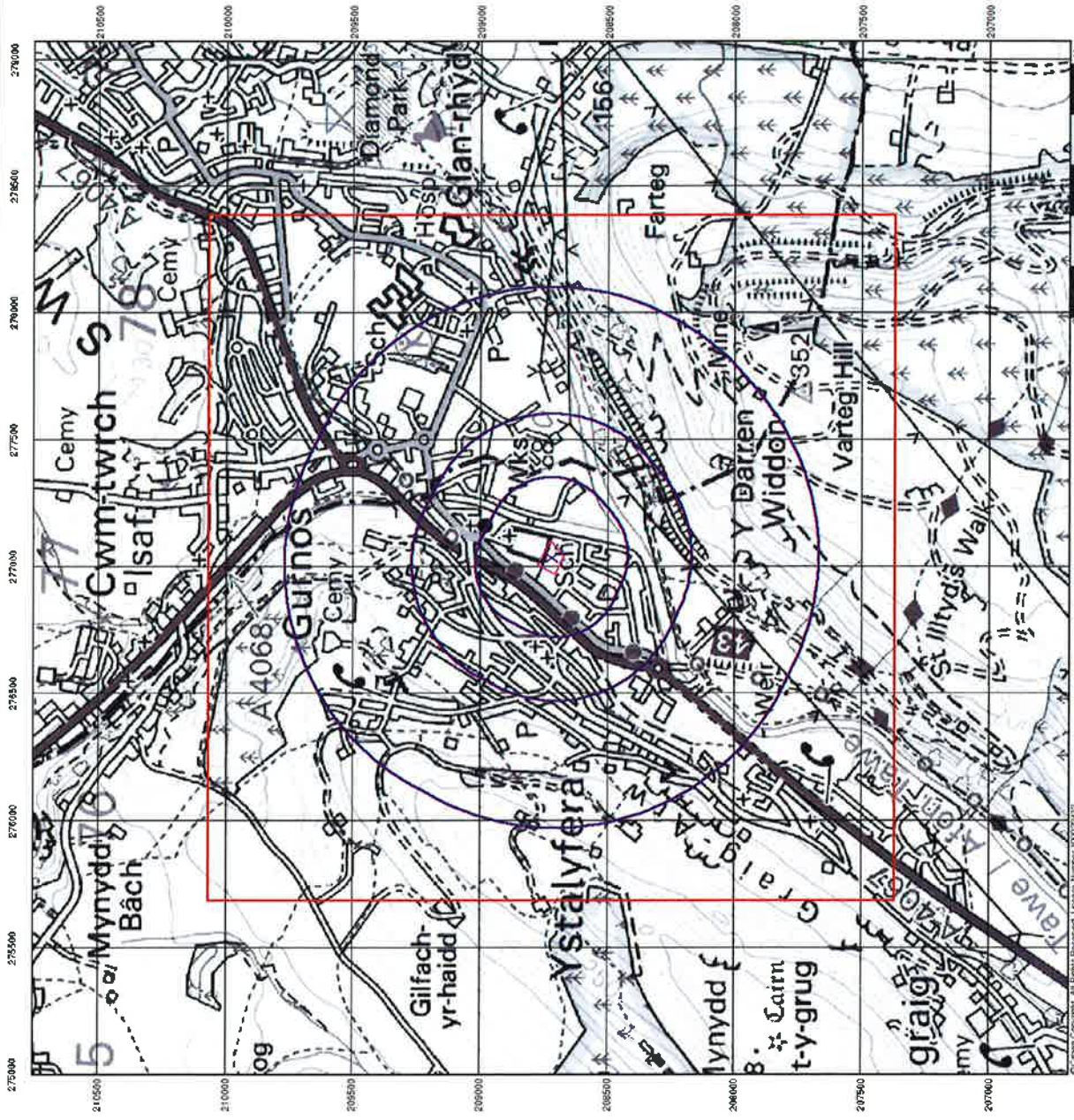


Order Details

Order Number: 4834553_1.1
 Customer Ref: B15974EX - 12869
 National Grid Reference: 277030, 208720
 Slice: A
 Site Area (Ha): 0.69
 Search Buffer (m): 1000

Site Details

Site at 277030, 208700



Envirocheck[®] Report: Datasheet

Order Details:

Order Number:

48340556_1_1

Customer Reference:

B15974EX - 12869

National Grid Reference:

277030, 208720

Slice:

A

Site Area (Ha):

0.69

Search Buffer (m):

1000

Site Details:

Site at 277030, 208700

Client Details:

Mrs L Llewellyn
Jacobs UK Ltd
Newby House
Neath Abbey Business Park
Neath Abbey
Neath
SA10 7DR

Prepared For:

NPTCBC
The Quays
Neath Port Talbot

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Introduction

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

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v47.0

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Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		1	11	9
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 6			1	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 6		Yes		
Pollution Incidents to Controlled Waters	pg 6		2	7	22
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances	pg 11				2
River Quality	pg 12		1	2	
River Quality Biology Sampling Points	pg 12			1	
River Quality Chemistry Sampling Points	pg 13				1
Substantiated Pollution Incident Register	pg 13				1
Water Abstractions	pg 14		1	3	3 (*2)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 16	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 16	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 16	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 16		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 16		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences	pg 16		Yes	n/a	n/a
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 17				3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 17				1
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 18	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 18	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 30			4	19
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 34	Yes	n/a	n/a	n/a
Mining Instability	pg 34	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 34		Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 34	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 34	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 35	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 35	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
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Contemporary Trade Directory Entries	pg 36		7	4	17
Fuel Station Entries	pg 38				4

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Water Supply Grid Location: Ystalyfera Trunk Main Washout Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BF0088701 Permit Version: 1 Effective Date: 13th August 1974 Issued Date: 13th August 1974 Revocation Date: 31st March 2007 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: River Twrch Status: Revoked (Water Resources Act 1991, Section 86 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	156	1	277200 208600
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BF0169101 Permit Version: 7 Effective Date: 31st March 2010 Issued Date: 31st March 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SW (E)	356	1	277423 208569
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BF0169101 Permit Version: 6 Effective Date: 1st January 2010 Issued Date: 26th June 2009 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SW (E)	356	1	277423 208569
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BF0169101 Permit Version: 5 Effective Date: 31st March 2005 Issued Date: 31st March 2005 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SW (E)	356	1	277423 208569

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: Bw0600901 Permit Version: 3 Effective Date: 31st March 2005 Issued Date: 31st March 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SW (E)	356	1	277423 208569
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Wwtw Off Wind Road, Ystradgynlais, Swansea Valley Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BF0169101 Permit Version: 4 Effective Date: 1st April 2004 Issued Date: 31st March 2004 Revocation Date: 30th March 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SW (E)	356	1	277423 208569
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw (Storm Tks) Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: Bw0600901 Permit Version: 2 Effective Date: 3rd November 1995 Issued Date: 2nd November 1995 Revocation Date: 30th March 2005 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 10m	A14SW (E)	395	1	277470 208580
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw (Storm Tks) Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BF0169101 Permit Version: 3 Effective Date: 1st November 1995 Issued Date: 31st October 1995 Revocation Date: 31st March 2004 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A14SW (E)	395	1	277470 208580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw (Storm Tks) Authority: Environment Agency, Welsh Region Catchment Area: Not Given Reference: BP0256901 Permit Version: 1 Effective Date: 31st October 1995 Issued Date: 31st October 1995 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: New Consent, by Application (Water Resources Act 1991, Section 86) Positional Accuracy: Located by supplier to within 10m	A14SW (E)	395	1	277470 208590
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw (Storm Tks) Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BF0169101 Permit Version: 2 Effective Date: 17th November 1989 Issued Date: 17th November 1989 Revocation Date: 31st October 1995 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A14SW (E)	395	1	277470 208580
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw (Storm Tks) Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BF0169101 Permit Version: 1 Effective Date: 16th November 1977 Issued Date: 16th November 1977 Revocation Date: 16th November 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A14SW (E)	395	1	277470 208580
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw (Storm Tks) Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BW0600901 Permit Version: 1 Effective Date: 16th November 1977 Issued Date: 16th November 1977 Revocation Date: 2nd November 1995 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A14SW (E)	395	1	277470 208580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Hopkins W T J & Williams L L Property Type: Undefined Or Other Location: Working Of Underground Coal @ Ystal, Ystalyfera Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: Be0031901 Permit Version: 1 Effective Date: 25th June 1970 Issued Date: 25th June 1970 Revocation Date: 22nd December 1993 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib River Tawe Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	514	1	277400 208300
4	Discharge Consents Operator: The Occupier Property Type: Undefined Or Other Location: Swansea Ynysgeinon Farm Ystalyfera Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: Bp0047101 Permit Version: 1 Effective Date: 22nd May 1987 Issued Date: 22nd May 1987 Revocation Date: 10th October 1994 Discharge Type: Unspecified Discharge: Onto Land Environment: Receiving Water: To Land Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	530	1	276800 208200
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Ystradgynlais Stw-Sso Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BW0601001 Permit Version: 1 Effective Date: 16th November 1977 Issued Date: 16th November 1977 Revocation Date: 10th July 2001 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of River Tawe Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A14NW (E)	550	1	277650 208750
6	Discharge Consents Operator: Hughes D Property Type: Undefined Or Other Location: 13 Clyngwyn Rd. Ystalyfera Swansea. Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Bf0200001 Permit Version: 1 Effective Date: 19th June 1978 Issued Date: 19th June 1978 Revocation Date: 22nd April 1994 Discharge Type: Unspecified Discharge: Onto Land Environment: Receiving Water: To Land Nr. River Twrch Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A18NW (N)	631	1	276980 209400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Dill Maggs & Co Ltd Property Type: Coal Extraction, Surface Location: Tirbach Washery Ystalyfera Swansea, West Glamorgan Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BP0167601 Permit Version: 1 Effective Date: 18th April 1991 Issued Date: 18th April 1991 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Via Ditch To River Twrch Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A18NE (N)	677	1	277225 209410
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Office Row Car Park Ystalyfera Cso, Neath, South Wales Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: Bw2303401 Permit Version: 2 Effective Date: 31st March 2009 Issued Date: 31st December 2008 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	765	1	276489 208110
8	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Swo Ystrlyfera Soc 17 - Below Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: BW2303401 Permit Version: 1 Effective Date: 13th April 1972 Issued Date: 13th April 1972 Revocation Date: 30th March 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Tawe Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	765	1	276489 208110
9	Discharge Consents Operator: Janet Powell Property Type: Domestic Property (Single) Location: Park House Varteg Hill, Glanrhyd, Ystradgynlais, Sa9 1ax Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Bp0292001 Permit Version: 1 Effective Date: 14th June 2002 Issued Date: 14th June 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Afon Tawe Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15SW (E)	949	1	278050 208720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Hoar David Edward Property Type: Undefined Or Other Location: Swansea Pantygwanydd Farm Ystalyfer, Pantygwanydd Farm Ystalyfera Authority: Environment Agency, Welsh Region Catchment Area: River Tawe Reference: Bp0042901 Permit Version: 1 Effective Date: 28th April 1987 Issued Date: 28th April 1987 Revocation Date: 11th July 1994 Discharge Type: Unspecified Discharge: Onto Land Environment: Receiving Water: To Land Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A11NE (W)	975	1	276000 208800
11	Local Authority Pollution Prevention and Controls Name: Hargreaves Industrial Services Location: Tŷr Bach Road, Ystalyfera, SWANSEA, West Glamorgan, SA9 2HX Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PG 3/5(91)6 Dated: 14th August 1995 Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes Status: Authorised Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	334	2	277057 209099
12	Local Authority Pollution Prevention and Controls Name: Wind Road Service Station Location: Wind Road, Ystadgynlais, SWANSEA, Mid Glamorgan, SA9 1AF Authority: Powys County Council, Public Protection Department Permit Reference: PPC 11 Dated: 24th January 2002 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	575	3	277409 209206
13	Local Authority Pollution Prevention and Controls Name: CPL Environmental Location: Tirbach Washery, Ystalyfera, SWANSEA, West Glamorgan, SA9 2HX Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: e3/1/23 Dated: 4th January 1996 Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes Status: Authorisation has varied Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	689	4	277157 209442
	Nearest Surface Water Feature	A13SE (E)	64	-	277161 208693
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: 100 Meters Up Stream Of Conf, Of Twrch And, Tawe Down Stream Of S T W Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 1st March 1996 Incident Reference: 27732 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	232	1	277200 208500
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: 100 Metres Upstream Of Confluence At, Twrch And Tawe, Downstream Of Weir Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 1st March 1996 Incident Reference: 27732 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	236	1	277200 208495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: Up Stream Of, Sewage Treatment Works By Lucas, YSTRADGYNLAIS Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 18th April 1991 Incident Reference: 168 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	300	1	277400 208700
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Ysialafara, Nicholas Street, SWANSEA Authority: Environment Agency, Welsh Region Pollutant: Creosole Note: Deliberate Act Incident Date: 7th June 1996 Incident Reference: 28847 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	343	1	277300 209000
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Commercial Street Authority: Environment Agency, Welsh Region Pollutant: Rubble/Litter Or Solids Note: Not Supplied Incident Date: 24th September 1995 Incident Reference: 26405 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	467	1	276600 209000
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Fishermans Pass, At St Clears Boat Club Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Blocked Sewer Incident Date: 16th April 1996 Incident Reference: 28321 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	468	1	277200 209195
18	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: Fishermans Pass, At Swan Lane Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Blocked Sewer Incident Date: 16th April 1996 Incident Reference: 28321 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	472	1	277200 209200
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Panteg Weir Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 29th March 1995 Incident Reference: 23357 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	482	1	276500 208600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Next To, Dillwyn, YSTRADGYNLAIS Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 27th September 1996 Incident Reference: 30200 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	488	1	277500 209000
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: 49/51 Cyfyng Road Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 28th May 1995 Incident Reference: 24379 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	513	1	276500 208500
22	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Surface Runoff Location: Capital Bridge, YSTRADGYNLAIS Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 25th April 1991 Incident Reference: 435 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	539	1	277250 209250
22	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: 14067 Road Bridge, Gumos Across Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Accidental Spillage/Leakage Incident Date: 15th May 1991 Incident Reference: 711 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	584	1	277250 209300
22	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: YSTRADGYNLAIS Authority: Environment Agency, Welsh Region Pollutant: Coal Solids Note: Weather Incident Date: 4th March 1991 Incident Reference: 2676 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	607	1	277300 209300
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Capitol Bridge, Opposite Broadway Garage Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 8th June 1991 Incident Reference: 782 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	562	1	277300 209250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Surface Runoff Location: Delves Solid Fuels Authority: Environment Agency, Welsh Region Pollutant: Coal Solids Note: Weather Incident Date: 1st February 1991 Incident Reference: 2021 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	602	1	277300 209295
24	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Gower Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 5th November 1997 Incident Reference: 34101 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	620	1	276505 208295
24	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Newbridge Fields Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 5th November 1997 Incident Reference: 34101 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	621	1	276500 208300
24	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Adjacent To Jersey Arms Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 5th November 1997 Incident Reference: 34101 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	624	1	276500 208295
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Girder Steel Bridge, Above Panteg Weir, PANTEG Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 17th March 1998 Incident Reference: 35108 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	626	1	276600 208200
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Under Iron Bridge, YSTALYFERA Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 14th March 1998 Incident Reference: 35107 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	630	1	276600 208195

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage; Sewerage Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Sewage Fungus Note: Blocked Sewer Incident Date: 23rd September 1995 Incident Reference: 26330 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	643	1	276400 209000
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Ranch Bridge/Iron Bridge Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 16th October 1997 Incident Reference: 33997 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	690	1	276500 208200
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Iron Bridge, YSTALYFERA Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 16th October 1997 Incident Reference: 33997 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	694	1	276500 208195
28	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Broom Wade Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 11th August 1995 Incident Reference: 25404 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	709	1	276600 208100
29	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Tir Bach Washery Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Unknown; Twrch Incident Date: 19th June 1998 Incident Reference: 36057 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	756	1	277200 209500
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Under Iron Bridge In, YSTALYFERA Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 14th October 1997 Incident Reference: 33891 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	761	1	276405 208195

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: 40 Yards Down Stream Of Bridge, Broom Wade On Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 14th September 1995 Incident Reference: 26356 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	762	1	276400 208200
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Under Iron Bridge, Ystalyfera-Manhole Cover., Not Storm Overflow Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 12th October 1997 Incident Reference: 33890 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	765	1	276400 208195
31	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Panteg (Fish Trap), Right Bank 150 Yards Upstream Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: River Tawe; Overflow Incident Date: 28th August 1997 Incident Reference: 33524 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Weather Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	847	1	276500 208000
32	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: 100 M Panteg Weir Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Not Supplied Incident Date: 25th April 1991 Incident Reference: 415 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	907	1	276400 208000
33	Pollution Incidents to Controlled Waters Property Type: Not Given Location: The Catholic, Pool And Up Stream Of, Panteg Weir Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Carcasses Note: Vandalism Incident Date: 5th August 1995 Incident Reference: 25391 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	973	1	276300 208000
34	Registered Radioactive Substances Name: Sumitomo Electric Wiring Systems (Europe) Ltd Location: Wind Road., Ystradgynlais, SWANSEA, West Glamorgan, SA9 1FY Authority: Environment Agency, Welsh Region Permit Reference: AH3806 Dated: 24th December 1993 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	661	1	277585 209170

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Registered Radioactive Substances Name: Sumitomo Electric Wiring Systems (Europe) Ltd Location: Wind Road,, Ystradgynlais, SWANSEA, West Glamorgan, SA9 1FY Authority: Environment Agency, Welsh Region Permit Reference: AL2772 Dated: 23rd December 1993 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	661	1	277593 209161
	River Quality Name: Twrch GQA Grade: River Quality A Reach: Conf.Tawe - Conf.Nantllynfell Estimated Distance (km): 4.2 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A13SE (E)	26	1	277126 208714
	River Quality Name: Tawe GQA Grade: River Quality A Reach: Conf.Afon Twrch- Conf. Giedd Estimated Distance (km): 3.8 Flow Rate: Flow less than 10 cumecs Flow Type: River Year: 2000	A8NE (SE)	372	1	277221 208344
	River Quality Name: Tawe GQA Grade: River Quality A Reach: Conf.Nant Cwm Ddu- Conf. Afon Twrch Estimated Distance (km): 4.7 Flow Rate: Flow less than 10 cumecs Flow Type: River Year: 2000	A8NE (SE)	372	1	277209 208338
35	River Quality Biology Sampling Points Name: Tawe Reach: Confluence Nant Cwm Ddu To Confluence Afon Twrch Estimated Distance: 4.70 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade B - Good Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2002 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2003 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2008 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2009 GQA Grade: River Quality Biology GQA Grade A - Very Good	A13SE (S)	277	1	277100 208400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	River Quality Chemistry Sampling Points Name: Twrch Reach: Confluence River Tawe To Confluence Nantllynfell Estimated Distance: 4.20 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A18NE (N)	885	1	277232 209625
37	Substantiated Pollution Incident Register Authority: Environment Agency Wales, South West Area Incident Date: 27th January 2005 Incident Reference: 289736 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Sewage Materials: Grey Water	A7NE (SW)	788	1	276466 208099

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	Water Abstractions Operator: Mrs J Davies Licence Number: 22/59/1/0097 Permit Version: 100 Location: Afon Twrch Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Tawe Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd June 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (E)	82	1	277180 208700
39	Water Abstractions Operator: Thomas & Sons (Minerals) Ltd Licence Number: 22/59/1/0086 Permit Version: 100 Location: Spring Within Factory Boundaries Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spring Within Factory Boundaries Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th August 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	258	1	276790 208910
40	Water Abstractions Operator: Mrs J Davies Licence Number: 22/59/1/0097 Permit Version: 100 Location: River Tawe Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Afon Twrch Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd June 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	340	1	277400 208560
41	Water Abstractions Operator: Mrs J Pardue-Wood Licence Number: 22/59/1/0125 Permit Version: 1 Location: Spring At Ynys-Cu House, Ystalyfera Authority: Environment Agency, Welsh Region Abstraction: Private Water Undertaking: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	474	1	277450 208400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	Water Abstractions Operator: Mr Kevin Jones Licence Number: Wa/059/0001/004 Permit Version: 1 Location: Afon Twrch, Gurnos Viaduct, Gurnos, Ystalyfer - Hep Authority: Environment Agency, Welsh Region Abstraction: Production Of Energy: Hydroelectric Power Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th June 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	520	1	277256 209225
43	Water Abstractions Operator: Hargreaves Industrial Services Limited Licence Number: 22/59/1/0078 Permit Version: 100 Location: River Twrch At Tirbach Washery Authority: Environment Agency, Welsh Region Abstraction: Extractive: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Twrch At Tirbach Washery Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	676	1	277250 209400
44	Water Abstractions Operator: British Waterways Board Licence Number: 22/59/1/0107 Permit Version: 100 Location: Swansea Canal Swansea Valley Authority: Environment Agency, Welsh Region Abstraction: Water Supply Related: Effluent/Slurry Dilution Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Swansea Canal Swansea Valley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	963	1	276250 208065
	Water Abstractions Operator: Tawe And Tributaries Angling Association Limited Licence Number: 22/59/1/0101 Permit Version: 101 Location: Trib Of Twrch (Lower Cwmtwrch Hatchery) Authority: Environment Agency, Welsh Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th November 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NE (N)	1556	1	276560 210260

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Tawe and Tributaries Angling Association Licence Number: 22/59/1/0101 Permit Version: 100 Location: Trib Of Twrch (Lower Cwmtwrch Hatchery) Authority: Environment Agency, Welsh Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Trib Of Twrch (Lower Cwmtwrch Hatchery) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NE (N)	1556	1	276560 210260
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 35 West Glamorgan Scale: 1:100,000	A13SW (NE)	0	1	277033 208719
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NE)	0	5	277033 208719
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NE)	0	5	277033 208719
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	59	1	277010 208605
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	59	1	277010 208605
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (E)	64	1	277164 208729
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	220	1	276807 208557
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences Type: Flood Defences Reference: Not Supplied	A13SE (SE)	129	1	277134 208579

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Historical Landfill Sites Licence Holder: Not Supplied Location: Ystalyfera, Port Talbot Name: Disused Tip at Clun-gwyn Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34819 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A18SE (N)	544	1	277108 209304
46	Historical Landfill Sites Licence Holder: Not Supplied Location: Ystalyfera Name: Ystalyfera Waste Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34815 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A8NW (S)	617	1	277007 208055
47	Historical Landfill Sites Licence Holder: Not Supplied Location: Ystalyfera Name: Tip - Ystalyfera Steel Works Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD34812 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A7NE (SW)	656	1	276596 208166
48	Licensed Waste Management Facilities (Locations) Licence Number: 104266 Location: Cwmtyrch H W R C, Bethel Road, Ystradgynlais, Powys, SA9 2HW Operator Name: Powys County Council Operator Location: Not Supplied Authority: Environment Agency Wales, South West Area Site Category: Non-hazardous & hazardous HWA Site Licence Status: Issued Issued: 26th September 2012 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NE (N)	752	1	277318 209453
	Local Authority Landfill Coverage Name: Neath Port Talbot County Borough Council - Has supplied landfill data		0	4	277033 208719
	Local Authority Landfill Coverage Name: Powys County Council - Has supplied landfill data		274	9	277361 208807

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Westphalian (mainly Productive Coal Measures)	A13SW (NE)	0	5	277033 208719
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (E)	0	6	277095 208724
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (W)	0	6	277000 208719
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (NE)	0	6	277033 208719
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (NW)	60	6	276945 208790
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (N)	92	6	277000 208661
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (SE)	119	6	277181 208623

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	147	6	277142 208563
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (E)	173	6	277267 208768
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	214	6	277067 208968
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	231	6	277000 209000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	231	6	277033 209000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	244	6	277085 209000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (N)	252	6	277107 209000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (E)	252	6	277330 208829
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NW (S)	299	6	277000 208376
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NE (S)	354	6	277108 208324
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NE (SE)	380	6	277241 208347
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NW (S)	404	6	277000 208270

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (NE)	405	6	277394 209000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	411	6	277383 208420
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (W)	439	6	276544 208603
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	449	6	277474 208472
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NE (SE)	455	6	277258 208270
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (SW)	464	6	276572 208467

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A14SW (SE)	524	6	277512 208396
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NW (SE)	543	6	277438 208295
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	565	6	277534 208358
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NE (NW)	597	6	276452 209000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NW (SE)	599	6	277460 208240
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	644	6	277476 208194

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 45 - 60 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (SE)	651	6	277440 208155
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 45 - 60 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	671	6	277033 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	673	6	277000 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A9NW (SE)	680	6	277488 208157
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	699	6	276849 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8SE (S)	700	6	277256 208004

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A8SE (S)	701	6	277247 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NW (SE)	705	6	277613 208236
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	706	6	277480 208116
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	706	6	277262 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12SW (W)	712	6	276265 208612
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	720	6	277501 208115

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A8SE (S)	726	6	277320 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NE (N)	731	6	277122 209491
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NE (N)	740	6	277137 209498
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (SW)	746	6	276718 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (SE)	747	6	277372 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (SW)	749	6	276711 208000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SW (W)	757	6	276221 208599
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9SW (SE)	763	6	277406 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	764	6	277308 207955
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NW (SE)	783	6	277523 208053
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	801	6	277673 208160
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12NW (W)	806	6	276221 209000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A8SW (S)	827	6	277000 207845
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9SW (SE)	836	6	277542 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NW (SE)	840	6	277701 208133
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	851	6	276173 209000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 45 - 60 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NE (SE)	874	6	277724 208108
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7NW (SW)	886	6	276291 208136

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NW (N)	893	6	276854 209650
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SE (E)	899	6	278000 208719
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SE (E)	899	6	278000 208710
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NE (SE)	907	6	277746 208084
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A14SE (E)	912	6	278000 208572
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SE (E)	921	6	278000 208522

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A17NE (NW)	940	6	276426 209509
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	942	6	278000 209000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	958	6	277000 207714
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 45 - 60 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9SE (SE)	960	6	277735 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SE (W)	971	6	276000 208719
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A9NE (E)	971	6	278000 208356

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7SW (SW)	991	6	276274 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SW (SW)	993	6	276271 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17NE (NW)	997	6	276433 209585
49	BGS Recorded Mineral Sites Site Name: Ynys-Y-Daren Location: Ystralyfera, Swansea, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151423 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SE (W)	295	5	276692 208608
50	BGS Recorded Mineral Sites Site Name: Ty Waun Location: Ystralyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124919 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18SW (N)	365	5	277029 209134
51	BGS Recorded Mineral Sites Site Name: Ty Gwyn-Bach Location: Ystralyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124912 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	452	5	276656 209056

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	BGS Recorded Mineral Sites Site Name: Pwll-Bach Colliery Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124907 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SE (W)	498	5	276508 208520
53	BGS Recorded Mineral Sites Site Name: Aber-Twrch Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124930 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	524	5	277468 208347
54	BGS Recorded Mineral Sites Site Name: Clyngwyn Colliery Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124918 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SW (N)	579	5	276899 209339
55	BGS Recorded Mineral Sites Site Name: Daren Colliery Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124932 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	623	5	277603 208353
55	BGS Recorded Mineral Sites Site Name: Daren Colliery Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124931 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	627	5	277586 208324
56	BGS Recorded Mineral Sites Site Name: Daren Wyddon Location: , Ystalyfera, Neath, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 151739 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	639	5	277557 208273

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	BGS Recorded Mineral Sites Site Name: Wern Fawr Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124915 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	675	5	276711 209377
58	BGS Recorded Mineral Sites Site Name: Wern Fawr Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124917 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NW (N)	675	5	276833 209422
59	BGS Recorded Mineral Sites Site Name: Ty Gwyn-Bach Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124903 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	686	5	276399 209090
60	BGS Recorded Mineral Sites Site Name: Clyngwyn Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124920 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NE (N)	712	5	277061 209479
61	BGS Recorded Mineral Sites Site Name: Cwar Pen-Y-Graig Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124901 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	722	5	276346 208343
62	BGS Recorded Mineral Sites Site Name: Clyngwyn Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124914 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NW (N)	795	5	276709 209507

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	BGS Recorded Mineral Sites Site Name: Pant-Y-Gwandy Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124896 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Upper Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NW (W)	809	5	276180 208877
64	BGS Recorded Mineral Sites Site Name: Pant-Y-Gwandy Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124895 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NW (W)	819	5	276160 208818
65	BGS Recorded Mineral Sites Site Name: Ynys-Glan-Tawe Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124935 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SE (E)	849	5	277946 208643
66	BGS Recorded Mineral Sites Site Name: Ty Gwyn-Bach Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124894 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NW (W)	877	5	276139 208982
67	BGS Recorded Mineral Sites Site Name: Cwar Pen-Y-Graig Location: , Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124892 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Llynfi Member Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SW (W)	907	5	276108 208424
68	BGS Recorded Mineral Sites Site Name: Varteg Colliery Location: , Ystalyfera, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 150234 Type: Underground Status: Ceased Operator: Ncb South Wales Area Operator Location: Ncb South Wales Area, Coal House, Ty-Glas Avenue, Llanishan, Cardiff, Cr6 5ys Periodic Type: Carboniferous Geology: Red Vein Coal (South Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SW (S)	913	5	276805 207790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	BGS Recorded Mineral Sites Site Name: Byrnant Varteg Mine Location: Ystalyfera, Powys Source: British Geological Survey, National Geoscience Information Service Reference: 3773 Type: Underground Status: Ceased Operator: Mountain Mining Syndicate Ltd Operator Location: Mountain Mining Syndicate Ltd, Tyn Y Coedcae House, Rhos, Pontardawe, Swansea Periodic Type: Carboniferous Geology: South Wales Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	966	5	277681 207946
70	BGS Recorded Mineral Sites Site Name: Farteg Colliery Location: Ystalyfera, Swansea, West Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 124936 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A15SW (E)	991	5	278052 208443
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (NE)	0	7	277033 208719
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (NE)	0	-	277033 208719
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	277033 208719
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	62	5	276944 208791
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	277033 208719
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	62	5	276944 208791
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	277033 208719
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	71	5	276916 208754
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	121	5	276877 208785
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	165	5	276909 208903

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	277033 208719
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	62	5	276944 208791
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	277033 208719
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	277033 208719
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	277033 208719

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	Contemporary Trade Directory Entries Name: M Turner Location: 8, Ffordd Glandwr, Ystalyfera, Swansea, SA9 2ER Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	63	-	277056 208610
72	Contemporary Trade Directory Entries Name: Ynysydarren Service Station Location: Ynysydarren Rd, Ystalyfera, Swansea, West Glamorgan, SA9 2DY Classification: Garage Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	66	-	276957 208814
73	Contemporary Trade Directory Entries Name: Old Wern Road Garage Location: Old Wern Road, Ystalyfera, Swansea, SA9 2LL Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	182	-	276895 208914
74	Contemporary Trade Directory Entries Name: Thomas & Son Location: Old Wern Road, Ystalyfera, Swansea, West Glamorgan, SA9 2LL Classification: Soft Drinks - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	202	-	276912 208949
74	Contemporary Trade Directory Entries Name: Tudor Hall Garage Location: Neuadd Tudor, Old Wern Road, Ystalyfera, Swansea, SA9 2LD Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	208	-	276928 208963
74	Contemporary Trade Directory Entries Name: Healthy Work Stations Location: 62-64, Commercial Street, Ystalyfera, Swansea, SA9 2HS Classification: Office Furniture & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	231	-	276904 208977
74	Contemporary Trade Directory Entries Name: Smart Controls Ltd Location: 43-45, Commercial Street, Ystalyfera, Swansea, SA9 2HS Classification: Electrical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	251	-	276903 208999
75	Contemporary Trade Directory Entries Name: T R L Ltd Location: 88, Commercial Street, Ystalyfera, Swansea, SA9 2HU Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	231	-	276992 209000
76	Contemporary Trade Directory Entries Name: Celtic Distribution Ltd Location: Lower Wern Road, Ystalyfera, Swansea, West Glamorgan, SA9 2BR Classification: Classic Car Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	267	-	276727 208813
77	Contemporary Trade Directory Entries Name: Hi-Quality Harnesses Ltd Location: 8-9-10 Gumos Rd, Ystalyfera, Swansea, West Glamorgan, SA9 2JA Classification: Electronic Component Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NE (N)	269	-	277080 209028
78	Contemporary Trade Directory Entries Name: A And J Installations (South Wales) Ltd Location: 49, Altygrug Road, Ystalyfera, Swansea, SA9 2AQ Classification: Floorcoverings - Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	390	-	276788 209093
79	Contemporary Trade Directory Entries Name: Lewis Bros Location: 3, Glantwrch Houses, Gurnos Road, Ystradgynlais, Swansea, SA9 2JR Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (NE)	526	-	277372 209171

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	Contemporary Trade Directory Entries Name: Helping Hands Location: Alityrug Rd, Ystalyfera, Swansea, West Glamorgan, SA9 2AR Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18SW (NW)	565	-	276703 209247
81	Contemporary Trade Directory Entries Name: J Lewis Location: 50, Glantawe Park, Ystradgynlais, Swansea, SA9 1AE Classification: Dairies Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	581	-	277534 209106
82	Contemporary Trade Directory Entries Name: Remploy Furniture Group Location: Wind Road, Ystradgynlais, Swansea, SA9 1AF Classification: Bookbinding & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	632	-	277626 209072
83	Contemporary Trade Directory Entries Name: J M King Ltd Location: Y Pandy, Gurnos, SWANSEA, SA9 2LA Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (NE)	651	-	277340 209330
84	Contemporary Trade Directory Entries Name: W J Harris Location: 51, Cyfyng Road, Ystalyfera, Swansea, SA9 2BS Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	703	-	276321 208436
85	Contemporary Trade Directory Entries Name: Valley Animal Feeds Location: Unit 2, Woodlands Business Park, Ystradgynlais, Swansea, SA9 1JW Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	851	-	277543 209448
85	Contemporary Trade Directory Entries Name: Blind Fashion Ltd Location: Unit 3, Woodlands Business Park, Ystradgynlais, Swansea, SA9 1JW Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	863	-	277548 209458
86	Contemporary Trade Directory Entries Name: Jabro Games Ltd Location: Unit 10, Gurnos Ind Est, Bethel Rd, Ystalyfera, Swansea, West Glamorgan, SA9 2HW Classification: Toys, Games & Sporting Goods - Manufacturers Status: Active Positional Accuracy: Manually positioned to the address or location	A18NE (N)	859	-	277337 209562
87	Contemporary Trade Directory Entries Name: Shield Automotive Ltd Location: Unit 7, Gurnos Ind Est, Bethel Rd, Ystalyfera, Swansea, West Glamorgan, SA9 2HW Classification: Chemical Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	908	-	277293 209631
87	Contemporary Trade Directory Entries Name: Avs Performance Location: Unit 5, Gurnos Ind Est, Bethel Rd, Ystalyfera, Swansea, West Glamorgan, SA9 2HW Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	926	-	277316 209642
87	Contemporary Trade Directory Entries Name: Ap Developments Location: Unit 4-5, Gurnos Industrial Estate, Bethel Road, Ystalyfera, Swansea, SA9 2HW Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	926	-	277316 209642

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	Contemporary Trade Directory Entries Name: Dragon & Shamrock Location: Unit 7, Gurnos Ind Est, Bethel Rd, Ystalyfera, Swansea, West Glamorgan, SA9 2HW Classification: Mot Testing Centres Status: Active Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	926	-	277316 209642
88	Contemporary Trade Directory Entries Name: Llandello Building Supplies Location: Gurnos, SWANSEA, SA9 1DB Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	916	-	277417 209588
89	Contemporary Trade Directory Entries Name: Electrohm Ltd Location: Ohms House, Woodlands Business Pk, Ystradgynlais, Swansea, West Glamorgan, SA9 1JW Classification: Electronic Component Manufacturers & Distributors Status: Active Positional Accuracy: Manually positioned within the geographical locality	A19NE (NE)	938	-	277719 209426
90	Contemporary Trade Directory Entries Name: Datum Precision Location: Unit 8, Woodlands Business Park, Ystradgynlais, Swansea, SA9 1JW Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	969	-	277696 209485
91	Contemporary Trade Directory Entries Name: Grandwork Systems Ltd Location: Gurnos, Swansea, West Glamorgan, SA9 1DB Classification: Engineers - General Status: Active Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	992	-	277364 209694
92	Fuel Station Entries Name: Broadway Garage Location: Gurnos Road, Ystradgynlais, Swansea, SA9 2JP Brand: Gulf Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A16SE (NE)	516	-	277349 209173
93	Fuel Station Entries Name: Asda Ystalyfera Automat Location: A4067, Ystalyfera, Glanyrafon, Neath, West Glamorgan, SA9 2DE Brand: Asda Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	546	-	276561 208343
94	Fuel Station Entries Name: Wind Road Service Station Location: 2 Wind Road, Ystalyfera, Neath, West Glamorgan, SA9 2JX Brand: TEXACO Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A19SW (NE)	616	-	277517 209174
95	Fuel Station Entries Name: Tesco Ystradgynlais Location: Wind Road, Ystradgynlais, Swansea, West Glamorgan, SA9 1ad Brand: Tesco Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	695	-	277579 209225

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Neath Port Talbot County Borough Council - Environmental Health Department Carmarthenshire County Council - Environmental Health Department Powys County Council - Public Protection Department	April 2013 January 2013 May 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region	July 2013	Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	Quarterly
Integrated Pollution Controls Environment Agency - Welsh Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Welsh Region	July 2013	Quarterly
Local Authority Integrated Pollution Prevention And Control Carmarthenshire County Council - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department Powys County Council - Public Protection Department	August 2012 August 2012 November 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Carmarthenshire County Council - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department Merthyr Tydfil County Borough Council - Environmental Health Department Powys County Council - Public Protection Department	August 2012 August 2012 March 2013 November 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Carmarthenshire County Council - Environmental Health Department Neath Port Talbot County Borough Council - Environmental Health Department Powys County Council - Public Protection Department	August 2012 August 2012 November 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region	March 2013	Quarterly
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region	March 2013	Quarterly
Registered Radioactive Substances Environment Agency - Welsh Region	July 2013	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency Wales - South East Area Environment Agency Wales - South West Area	July 2013 July 2013	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region	July 2013	Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region	July 2013	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	Annually
Source Protection Zones Environment Agency - Head Office	July 2013	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	April 2013	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	April 2013	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	April 2013	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	April 2013	Quarterly
Flood Defences Environment Agency - Head Office	April 2013	Quarterly
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency Wales - South East Area Environment Agency Wales - South West Area	July 2013 July 2013	Quarterly Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South East Area Environment Agency Wales - South West Area	April 2013 April 2013	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Environment Agency Wales - South West Area	April 2013 April 2013	Quarterly Quarterly
Local Authority Landfill Coverage Carmarthenshire County Council Neath Port Talbot County Borough Council - Environmental Health Department Powys County Council	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Carmarthenshire County Council Powys County Council Neath Port Talbot County Borough Council - Environmental Health Department	May 2000 May 2000 September 2003	Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency Wales - South East Area Environment Agency Wales - South West Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area Environment Agency Wales - South West Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area Environment Agency Wales - South West Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2013	Bi-Annually
Explosive Sites Health and Safety Executive	March 2013	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Brecon Beacons National Park Neath Port Talbot County Borough Council - Planning Department Powys County Council - Planning Department Carmarthenshire County Council - Area Planning Office (East Area) Carmarthenshire County Council - Area Planning Office (South Area) Carmarthenshire County Council - Environment Department (West Area)	August 2008 August 2013 February 2013 March 2013 March 2013 March 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Brecon Beacons National Park Neath Port Talbot County Borough Council - Planning Department Powys County Council - Planning Department Carmarthenshire County Council - Area Planning Office (East Area) Carmarthenshire County Council - Area Planning Office (South Area) Carmarthenshire County Council - Environment Department (West Area)	August 2008 August 2013 February 2013 March 2013 March 2013 March 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2013	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	January 2012	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	May 2013	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2013	Quarterly
Sensitive Land Use	Version	Update Cycle
Areas of Outstanding Natural Beauty Countryside Council for Wales	May 2013	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	August 2008	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Carmarthenshire County Council Neath Port Talbot County Borough Council Powys County Council	May 2013 May 2013 May 2013	Bi-Annually Bi-Annually Bi-Annually
Marine Nature Reserves Countryside Council for Wales	May 2013	Bi-Annually
National Nature Reserves Countryside Council for Wales	May 2013	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	Annually
Ramsar Sites Countryside Council for Wales	May 2013	Bi-Annually
Sites of Special Scientific Interest Countryside Council for Wales	May 2013	Bi-Annually
Special Areas of Conservation Countryside Council for Wales	May 2013	Bi-Annually
Special Protection Areas Countryside Council for Wales	May 2013	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Countryside Council for Wales	 CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	Merthyr Tydfil County Borough Council - Environmental Health Department Civic Centre, Castle Street, Merthyr Tydfil, Mid Glamorgan, CF47 8AN	Telephone: 01685 725000 Fax: 01685 725024 Website: www.merthyr.gov.uk
3	Powys County Council - Public Protection Department Neuadd Maldwyn, Severn Road, Welshpool, Powys, SY21 7AS	Telephone: 01597 826662 Fax: 01597 826669 Website: www.powys.gov.uk
4	Neath Port Talbot County Borough Council - Environmental Health Department Room 322, Neath Civic Centre, Neath, West Glamorgan, SA11 3QZ	Telephone: 01639 763333 Fax: 01693 763444 Website: www.neath-porttalbot.gov.uk
5	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
6	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
7	The Coal Authority - Mining Report Service 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
8	Countryside Council for Wales Plas Penrhose, Fford Penrhos, Bangor, Gwynedd, LL57 2LQ	Telephone: 01248 385500 Fax: 01248 355782
9	Powys County Council County Hall, Llandrindod Wells, Powys, LD1 5LG	Telephone: 01597 826000 Fax: 01597 826230 Website: www.powys.gov.uk
-	Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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