

## PHASE 1 PRELIMINARY RISK ASSESSMENT (PRA)

**Greenhill, Station Road, Caehopkin, Swansea**  
SA9 1TP

For Mr John Hopkin

Our Ref: 22075

05 April 2022



## Project

Greenhill, Station Road, Caehopkin, Swansea

## Report Type

Phase 1 Preliminary Risk Assessment (PRA)

## Client

Mr John Hopkin

## Project Number

22075

## Date

05 April 2022

## Prepared by

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Managing Director

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Where any data supplied by the client from other sources has been used, it is assumed that the information is correct. No responsibility can be accepted by GCL for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.

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Where field investigations are carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

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|--|--|--------|-------------|--------------------|------------|---|-----------------------|--|-----------------------|--------------------------------|-----------------|---|-----------------------|-------------------------------|------------|
| <b>Commissioning</b>                           | Ground Consultants Limited (GCL) were commissioned by Atticus Planning on behalf of Mr John Hopkin to undertake a Phase I Preliminary Risk Assessment at the site known as 'Greenhill, Station Road, Caehopkin, Swansea.' GCL were formally instructed to proceed via email on the 16th March 2022.  |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |
| <b>Development Proposals</b>                   | It is proposed to develop the site with four (4 No.) residential properties.   |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |
| <b>Site History</b>                            | <p><b>On Site:</b> The site has barely changed since the earliest available maps (dated 1877). It has been rough pasture located south of the property of Greenhill, with a piggery shed constructed in the southeast corner in the 1950s/1960s, and a driveway in the northwest corner in the 1990s.</p> <p><b>Off Site:</b> The surroundings have seen significant mining activity from the earliest available mapping through to the 1980s. Mining activity included most notably and air shaft immediately west of the site, Abercrave Colliery south of the site as well as the International Anthracite Colliery and purification works, and significant areas of spoil tipping. The Neath and Brecon railway passed immediately south of the site until the 1970s. From the late 1970s, the railway and the mining features south of the Site were obliterated by the early phases of the large Nant Helen opencast coal mine. Restoration of the opencast workings had taken place by 1990. The settlement of Cae-Hopkin has seen increased residential development north of the site, following minor quarrying works in the early twentieth century.</p> |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |
| <b>Geology</b>                                 | <p>The geological map shows no artificial or superficial deposits to be present on site. However given the history of the site and the extent of mine workings in the surrounding area, the presence of made ground may be anticipated.</p> <p>The geological map indicates that the site is directly underlain by the South Wales Lower Coal Measures Formation of Carboniferous age. The BGS describes this unit as "Grey, (productive) coal-bearing mudstones/siltstones, with seatearths and minor sandstones." Several coal seams are shown to outcrop north and south of the site. It is anticipated that these dip in a southerly direction.</p>  |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |
| <b>Conceptual Site Model Summary</b>           | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #008080; color: white;">Source</th> <th style="background-color: #008080; color: white;">Risk Rating</th> </tr> </thead> <tbody> <tr> <td>On Site: Radon Gas</td> <td style="background-color: #d9ead3; text-align: center;"><b>Low</b></td> </tr> <tr> <td>On Site: Potential Historic Coal Mining</td> <td style="background-color: #fcf8e3; text-align: center;"><b>Moderate / Low</b></td> </tr> <tr> <td>On Site: Potential Infilled Land / Made Ground</td> <td style="background-color: #fcf8e3; text-align: center;"><b>Moderate / Low</b></td> </tr> <tr> <td>Off Site: Historic Coal Mining</td> <td style="background-color: #f2dede; text-align: center;"><b>Moderate</b></td> </tr> <tr> <td>Off Site: Neath &amp; Brecon Historic Railway</td> <td style="background-color: #fcf8e3; text-align: center;"><b>Moderate / Low</b></td> </tr> <tr> <td>Off Site: Tank of Unknown Use</td> <td style="background-color: #d9ead3; text-align: center;"><b>Low</b></td> </tr> </tbody> </table>   | Source | Risk Rating | On Site: Radon Gas | <b>Low</b> | On Site: Potential Historic Coal Mining | <b>Moderate / Low</b> | On Site: Potential Infilled Land / Made Ground | <b>Moderate / Low</b> | Off Site: Historic Coal Mining | <b>Moderate</b> | Off Site: Neath & Brecon Historic Railway | <b>Moderate / Low</b> | Off Site: Tank of Unknown Use | <b>Low</b> |
| Source   | Risk Rating  |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |
| On Site: Radon Gas                             | <b>Low</b>   |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |
| On Site: Potential Historic Coal Mining        | <b>Moderate / Low</b>  |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |
| On Site: Potential Infilled Land / Made Ground | <b>Moderate / Low</b>  |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |
| Off Site: Historic Coal Mining                 | <b>Moderate</b>  |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |
| Off Site: Neath & Brecon Historic Railway      | <b>Moderate / Low</b>  |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |
| Off Site: Tank of Unknown Use                  | <b>Low</b>   |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |
| <b>Recommendations</b>                         | <p>It is recommended that a Phase II Site Investigation be implemented in order to identify, quantify and delineate any potential areas of contamination on site highlighted in the Preliminary Conceptual Model. The Phase II Site Investigation should also include a geotechnical assessment of the site and may also need to investigate the presence of mining related features beneath the site. The scope of the investigation should be determined following the completion of the recommended Coal Mining Risk Assessment.</p> <p>No development, including intrusive investigations, should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority. The investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any</p>   |        |             |                    |            |   |                       |  |                       |                                |                 |   |                       |                               |            |

neighbouring land or properties should be fully considered when undertaking any intrusive investigation or ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed.

In the event unexpected contamination is found during development, work should cease until the material can be identified and remediated appropriately.

All site workers should be equipped with the correct PPE and have undertaken suitable risk assessments, job safety and environmental analysis before work commences.

Waste material to be removed from site should be handled by a suitably licensed waste contractor.



# 1 INTRODUCTION

## 1.1 Commissioning

Ground Consultants Limited (GCL) were commissioned by Atticus Planning on behalf of Mr John Hopkin to undertake a Phase I Preliminary Risk Assessment at the site known as 'Greenhill, Station Road, Caehopkin, Swansea.' GCL were formally instructed to proceed via email on the 16<sup>th</sup> March 2022.

This report has been prepared by GCL solely for the benefit of the client. It shall not be relied upon or transferred to any third party without the prior written authorisation of GCL.

## 1.2 Existing Reports

GCL has not been made aware of any previous land contamination reports for this site.

## 1.3 Scope and Objectives

The objective of this desk study is;

- ✓ To provisionally identify any land contamination associated with the proposed development and to support the discharge of relevant planning conditions and/or building control requirements.
- ✓ To provisionally assess the risk of ground instability
- ✓ To identify the need for investigation or remediation works to demonstrate that the site is suitable for use.

Any recommendations for further works have been made as deemed appropriate, based upon the findings of the assessment.

This assessment has been undertaken in accordance with guidance from BS10175:201, Environment Agency report CLR11, LCRM, and as such represents a Phase 1 Desk Study / Preliminary Risk Assessment.

## 1.4 Limitations

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

Should additional information become available which may influence the report conclusions, GCL reserves the right to review such information and, if warranted, to alter the opinions accordingly.

The conclusions and recommendations of this report are valid for a period of 12 months from the date of issue. Outside of this time frame the report will require reviewing by a suitably qualified geoenvironmental engineer / environmental scientist, to ensure that the report complies with any changes to industry standards, policies and/or guidelines.

It is recommended that a copy of this report be submitted to the local authority for approval, prior to commissioning any further work which may be required.

## 1.5 Information Sources

This assessment has been based upon mapping and information obtained from a number of trusted third-party sources. Although we only use information from trusted sources, GCL cannot accept any responsibility for any inaccuracy of third party information. The sources used in this assessment are listed below:

- ✓ Environmental and historical data supplied by Landmark Information Group Ltd.
- ✓ Zetica Unexploded Ordnance (UXO) risk map.
- ✓ British Geological Mapping (both online viewer and map scans)
- ✓ Coal Authority information on recorded mining.

## 1.6 Proposed Development

It is proposed to develop the site with four (4 No.) residential properties.

The proposed site plan is contained in Figure 2.2, to the rear of the report.



## 2 SITE LOCATION AND DESCRIPTION

### 2.1 Site Location and Layout

The site is located to the south of Caehopkin, Swansea. The site is approximately centred on National Grid Reference SN 82456 12120.

The site is roughly square in shape and covers an area of 0.1ha.

The site location and layout is shown in Figure 2.1, to the rear of the report.

### 2.2 Surrounding Area

Table 2.1: Surrounding Land Use

| Direction | Land Use  |
|-----------|---|
| North     | Housing and gardens at lower level  |
| East      | Woodland with dense undergrowth   |
| South     | Dense undergrowth and immature woodland (understood to be restored opencast workings), higher level |
| West      | Access road beyond which is a small maintenance yard for haulage firm                               |

### 2.3 Site Walkover Survey

GCL conducted a site walkover survey on 19th March 2022. Photographs from the walkover survey are provided in Appendix A.

The site is currently a level area which has recently been cleared of dense bramble growth. According to the site owner the site has previously been used for a garden/small holding and there is a small derelict stone building in the southeast corner understood to have been used to keep pigs.

Access from the road in the northwest corner leads up to a gently sloping site from south to north. The southwest quarter appears to be a raised plateau and appears made up. There is a steep slope down to the west and the adjacent road/track. This separates the site from the small haulage depot to the west. The sloped boundary is heavily vegetated with many young to mature trees.

The site steps down abruptly at the boundary with semidetached housing and gardens to the north.

There is a stone retaining wall on the southern side of the access way and there are remnants of walls along the south and west sides.

There are mature trees to the east. The woodland to the south is less mature with much low dense undergrowth. From the track to the west there is a set of steps leading up to the higher level. The woodland to the south is 2-3m higher in elevation.

Apart from recent areas of burning (of vegetation?) there were no visual or olfactory indication of contamination.

### 3 SITE HISTORY

#### 3.1 Historical Map Review

Using a range of historical mapping sources, an overview of pertinent findings relating to the site and its surroundings can be found below in Table 3.1.

Table 3.1: Summary of Historical Site Usage

| On Site   | Surroundings   | Date & Scale     |
|---|--|------------------|
| The site is undeveloped and shown as rough pasture. A track traverses the eastern extremity of the site, from north to south. | A shaft is noted just off the southwest corner of the site. The shaft may be associated with Aber-Craf (later Abercrave) Colliery, noted immediately south of the site, or with an old coal level 35m north. The Colliery includes boilers (65m south), coal drifts (100m south), coal levels 200m south. Numerous quarries and soil heaps are noted >250m south and south west of the site. | 1877 –<br>1878   |
|   | The Neath and Brecon railway passes immediately south of the site.   | 1:2,500          |
|   | Looking northwards, an old coal level is noted 35m north of the site with a spoil tip 120m north. Old quarries are located 200m north.<br><br>A stream is located 10m east of the Site, flowing northwards to join the Nant Ellen (later Nant Helen) river.  |                  |
| No significant change   | No significant change  | 1888<br>1:10,560 |
| No significant change   | The property known as Greenhill is now noted immediately north of the site.<br><br>The shaft immediately southwest of the site is now labelled as an air shaft.  |                  |
|   | Abercrave station is now noted 200m west of the site. Just south of the station is industrial land labelled “International Anthracite Colliery.”<br><br>Purification works (sewage and water) are noted 27m southwest of the site.<br><br>By the time of the 1904 map there has been a noted increase in industrial activity at Abercrave Colliery, including additional                     | 1904<br>1:2,500  |

|   |   |                           |
|---|---|---------------------------|
|   | structures, engine houses and earthworks/spoil tipping further to the south.  |                           |
| No significant change   | Residential development 280m east and 165m northwest. Further spoil tipping 100m south-east.  | 1918 –<br>1919<br>1:2,500 |
| No significant change   | No significant change.  | 1921<br>1:10,560          |
| No significant change   | Abercrave Colliery appears to have been extended, including additional buildings and railway sidings.   | 1953<br>1:10,560          |
| A small rectangular structure is noted in the southeast corner of the site. This is believed to be a stone piggery.   | <p>The property of Greenhill appears to have been divided into two properties, with Railway House to the east.</p> <p>Residential development west and north of the site. The area is now labelled as Cae-Hopkin. The air shaft, west of the Site, is no longer mapped.</p> <p>Greater detail in the 1962 map, highlighting the scale of industrial land use south of the site. Numerous “slag heaps” (spoil tips) are noted, and the area is now labelled as simply “mine.”</p> <p>Abercrave station is now labelled as “goods.”</p> | 1962 –<br>1964<br>1:2,500 |
| No significant change. The Site appears not to have been affected by the opencast mining taking place to the south, as the piggery building remains extant. | <p>The railway is now labelled as disused, and is completely absent in the area immediately south of the site.</p> <p>The area of former mine workings and spoil tipping south of the site is no longer represented on historic mapping. The workings and tips appear to have been removed during the early phases of the Nant Helen Opencast Coal Mine which covered land to the south of the Site, up to the southern site boundary.</p> <p>Increased residential development to Cae-Hopkin immediately north of the site.</p>      | 1977 –<br>1984<br>1:2,500 |
| No significant change   | A pond is noted 60m southwest of the site.  | 1990<br>1:2,500           |

|   |  |                            |
|---|--|----------------------------|
| A driveway into the site is now noted in the northwest corner of the site.                | Four ponds are noted 45m southeast of the site. The ponds are rectangular in shape and approximately 600m <sup>2</sup> , and are assumed to be settling ponds for the opencast workings. | 1996<br>1:2,500            |
| The site appears to be laid to grass, with the northeast corner used for vehicle parking. | The former opencast workings appear to have been restored, mostly laid to grass, with saplings to the southwest. One of the settling ponds has been backfilled.                          | 2001<br>Aerial Photo       |
| No significant change   | No significant change  | 2003 –<br>2022<br>1:10,000 |

### 3.2 Site History Summary

**On Site:** The site has barely changed since the earliest available maps (dated 1877). It has been rough pasture located south of the property of Greenhill, with a piggery shed constructed in the southeast corner in the 1950s/1960s, and a driveway in the northwest corner in the 1990s.

**Off Site:** The surroundings have seen significant mining activity from the earliest available mapping through to the 1980s. Mining activity included most notably and air shaft immediately west of the site, Abercrave Colliery south of the site as well as the International Anthracite Colliery and purification works, and significant areas of spoil tipping. The Neath and Brecon railway passed immediately south of the site until the 1970s. From the late 1970s, the railway and the mining features south of the Site were obliterated by the early phases of the large Nant Helen opencast coal mine. Restoration of the opencast workings had taken place by 1990. The settlement of Cae-Hopkin has seen increased residential development north of the site, following minor quarrying works in the early twentieth century.

### 3.3 Anecdotal Information

None.

### 3.4 UXO Risk

The risk to the site and its surroundings from the presence of UXO is low (see Appendix D).

### 3.5 Nearby Planning Applications

No relevant planning application data has been found on the Powys County Council online planning register.

## 4 GEOLOGICAL & GEOTECHNICAL SETTING

### 4.1 Geological Setting

Reference has been made to the Published Geology (BGS sheet 231, Merthyr Tydfil, 1:50,000), as well as the BGS online map viewer and information from the Coal Authority (see below).

The geological map shows no artificial or superficial deposits to be present on site. However given the history of the site and the extent of mine workings in the surrounding area, the presence of made ground may be anticipated.

The geological map indicates that the site is directly underlain by the South Wales Lower Coal Measures Formation of Carboniferous age. The BGS describes this unit as “Grey, (productive) coal-bearing mudstones/siltstones, with seatearths and minor sandstones.” Several coal seams are shown to outcrop north and south of the site. It is anticipated that these dip in a southerly direction.

Based on our experience of the local area, as well as BGS maps, borehole logs, and nearby site investigation reports, it is anticipated that the following geological sequence can be expected;

*Table 4.1: Anticipated Geological Sequence*

| Strata                          | Description   | Estimated Thickness (m) | Estimated Permeability               | Location  |
|---------------------------------|---|-------------------------|--------------------------------------|---|
| Made Ground                     | Reworked natural material with potential anthropogenic components including brick and concrete. | 0 - 1                   | Unsuitable for conventional drainage | Around and beneath existing structures and possible backfill to outcrop coal workings |
| Topsoil                         | Brown friable clay or silt  | 0.3 – 0.5               | Unsuitable for conventional drainage | Across the site   |
| South Wales Lower Coal Measures | Clays, mudstones and sandstones with coal.  | 20m+                    | Poor - moderate                      | Across the site   |

### 4.2 Potential for Ground Instability

There are many natural and human-induced geotechnical processes which can give rise to ground stability issues. While in all cases instability may arise whether or not there is any development on the surface, it is important to recognise that the development itself or the intensification of development may be the triggering factor, which initiates instability problems.

The risks posed by common types of unstable ground are tabulated below. The assessment of risk is based upon the proposed development, using a range of information sources, including geological and topographical mapping, as well as Landmark data.

Table 4.2: Unstable Ground Risk Summary

| Instability Risk           | Within 250m of Site?                |                          | Risk Rating                           |
|----------------------------|-------------------------------------|--------------------------|---------------------------------------|
|                            | Yes                                 | No                       |                                       |
| Quarrying                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Low – Moderate (Nearest = 207m north) |
| Potentially Infilled Land  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Moderate (recorded as on site)        |
| Collapsible Ground         |                                     | n/a                      | Very Low                              |
| Compressible Ground        |                                     | n/a                      | No Hazard                             |
| Ground Dissolution         |                                     | n/a                      | Very Low                              |
| Landslides                 |                                     | n/a                      | Very Low                              |
| Running Sand               |                                     | n/a                      | No Hazard                             |
| Shrinking or Swelling Clay |                                     | n/a                      | No Hazard                             |

### 4.3 Mining and Quarrying

A CON 29 Coal Mining Report, as well as a Consultants Coal Mining Report, were commissioned alongside this Phase 1 Desk Study.

The reports confirmed that within, or within 20 metres of, the boundary of the property there is 1 mine entry, the approximate position of which is shown on the enquiry boundary plot. (Air Shaft immediately west of the site). There is no record of what steps, if any, have been taken to treat the mine entry. 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.

Whilst the site is not within a surface area that could be affected by past recorded underground coal working, the Coal Authority states that there is coal at or close to the surface that may have been worked at some time in the past. Given the geological setting of the area, this could have been by outcrop workings or shallow drift-accessed mining, possibly using pillar and stall techniques. The coal authority mine plan, contained within Appendix E, indicates the presence of an outcrop beneath the site, known as Yard (Meadow) Outcrop. Yard Outcrop lies just north of the site.

The site is noted as being within the boundary of the Nant Helen opencast site from which coal has been removed by opencast methods. Examination of the plan showing the extent of the opencast mining indicates that the southern half of the site is within the opencast boundary, however it is likely that the actual working boundary of the opencast site was the edge of the former railway line which forms the southern boundary of the current site. However as noted above, unrecorded outcrop workings could have taken place within the boundaries of the site.

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.

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

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. In view of the coal mining circumstances we would recommend that any planned or future development should follow detailed technical advice before beginning work on site.

It is therefore recommended that a full Coal Mining Risk Assessment (CMRA) is commissioned prior to development taking place.

A documentary Mine Search is provided as Appendix E.

#### 4.4 **Groundwater**

It is unlikely that groundwater will be at shallow depth in this area. It is anticipated that groundwater will flow to the north.



## 5 ENVIRONMENTAL, HYDROLOGICAL & HYDROGEOLOGICAL SETTING

### 5.1 Hydrology & Hydrogeology

A summary of the hydrological and hydrogeological setting is tabulated below, with respect to the anticipated geological sequence set out in section 4.1.

Table 5.1: Overview of the hydrological and hydrogeological setting

| Surface Water                                 |  |                                     |                          |
|---|--|-------------------------------------|--------------------------|
| Feature                                       | Within pertinent radius of site? (500m)  |                                     | Distance (m) / Direction |
|   | Yes  | No                                  |                          |
| Nearest Surface Water Feature                 | <input checked="" type="checkbox"/>  | <input type="checkbox"/>            | 7m east                  |
| Nearest Watercourse                           | <input checked="" type="checkbox"/>  | <input type="checkbox"/>            |                          |
| River Quality Data Biology and/or Chemical    | <input type="checkbox"/>   | <input checked="" type="checkbox"/> |                          |
| Flood Risk from Rivers or Sea                 | <input type="checkbox"/>   | <input checked="" type="checkbox"/> |                          |
| Nearest Surface Water Abstraction License     | <input type="checkbox"/>   | <input checked="" type="checkbox"/> |                          |
| Hydrology and Hydrogeology                    |  |                                     |                          |
| Superficial Geology Aquifer Designation       | There are no superficial deposits recorded on site                                 |                                     |                          |
| Bedrock Geology Aquifer Designation           | The South Wales Lower Coal Measures Formation is designated a secondary A aquifer. |                                     |                          |
| Groundwater Vulnerability                     | High, well-connected fractures   |                                     |                          |
| Source Protection Zones                       | None within 500m of site   |                                     |                          |
| BGS Groundwater Flooding Susceptibility Areas | None within 50m of site  |                                     |                          |
| Active Groundwater Abstraction Licences       | Nearest groundwater abstraction license is 1410m west.                             |                                     |                          |
| Flood Zones                                   | The site is not within 250m of a flood zone 2 or 3                                 |                                     |                          |
| Pollution Incidents to Controlled Waters      | None within 250m   |                                     |                          |

### 5.3 Environmental Setting

The following table summarises all pertinent environmental factors relating to the site, with respect to the ground conditions set out in section 4.1.

Table 5.2: Environmental Setting

| Radon   |  |   |                          |
|---|--|---|--------------------------|
| The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). No radon protective measures are necessary in the construction of new dwellings or extensions. |  |   |                          |
| Background Estimated Soil Chemistry (mg / kg)   |  |   |                          |
| Arsenic   | 25 – 35                                  |   |                          |
| Cadmium   | <1.8                                     | Heavy metals are not predicted to exceed the relevant generic assessment criteria (residential with consumption of homegrown produce) |                          |
| Chromium  | 60 - 90                                  |   |                          |
| Lead  | <100                                     |   |                          |
| Nickle  | 15 – 30                                  |   |                          |
|   |  |   |                          |
| Sensitive Land Uses   |  |   |                          |
| Sensitive Land Use  | Within pertinent radius of site? (250m)* |   | Distance (m) / Direction |
|   | Yes                                      | No  |                          |
| Ancient Woodland  | <input checked="" type="checkbox"/>      | <input type="checkbox"/>  | 9m east                  |
| Areas Of Adopted Green Belt   | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| Area Of Unadopted Green Belt  | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| Areas Of Outstanding Natural Beauty   | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| Environmentally Sensitive Areas   | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| Forest Parks  | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| Local Nature Reserves   | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| Marine Nature Reserves  | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| National Nature Reserves  | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| National Parks  | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| Nitrate Sensitive Areas   | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| Nitrate Vulnerable Zones  | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| Ramsar Sites  | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |
| Sites Of Special Scientific Interest  | <input type="checkbox"/>                 | <input checked="" type="checkbox"/>   |                          |

|                               |                          |                                     |
|-------------------------------|--------------------------|-------------------------------------|
| Special Areas of Conservation | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Special Protection Areas      | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| World Heritage Sites          | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

### Ecological

No invasive species were noted in or around the immediate surroundings of the site during the site walkover.

### Waste & Hazardous Substances

| Environmental Source                                   | Within pertinent radius of site? (250m)* |                                     | Distance (m) / Direction |
|--|--|-------------------------------------|--------------------------|
|  | Yes                                      | No                                  |                          |
| BGS Recorded Landfill Sites                            | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |
| Historic Landfill Sites                                | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |
| Integrated Pollution Control Registered Waste Sites    | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |
| Licensed Waste Management Facilities                   | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |
| Local Authority Recorded Landfill Sites                | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |
| Registered Landfill Sites                              | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |
| Registered Waste Transferred Sites                     | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |
| Registered Waste Treatment Or Disposal Sites           | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |
| Control Of Major Accident Hazards Sites (COMAH)        | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |
| Explosive Sites  | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |
| Pollution Incidents to Controlled Waters (significant) | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |
| Active Discharge Consents                              | <input type="checkbox"/>                 | <input checked="" type="checkbox"/> |                          |

*\*Initial search extent limited to 250m from site, unless source of contamination and/or sensitive receptor is considered significant enough to warrant a greater radius of up to 1,000m.*

### Industrial Land Uses (within 250m)

| Direction | Distance (m) | Name | Location | Classification      | Status          |
|-----------|--------------|------|----------|---------------------|-----------------|
| W         | 22           | Tank | SA9      | Industrial Features | Tanks (Generic) |

## 6 PRELIMINARY CONCEPTUAL MODEL

### 6.1 Introduction

A Preliminary Risk Assessment is underpinned by the conceptual model, which is based on the relationship between the source of contamination, potential receptors, and any pathway between. If a viable source, pathway and receptor is identified, an assessment of the risk is required. CIRIA C552 offers guidance on risk valuation, based on the likelihood of an event, and its severity.

The following table outlines the classification of probability, based on CIRIA C552;

*Table 6.1: Classification of Probability*

| Classification         | Definition   |
|------------------------|--|
| <b>High Likelihood</b> | A pollutant link has been identified and a pollution event is very likely in the short term and almost inevitable in the long term.                                |
| <b>Likely</b>          | A pollutant link has been identified, and it is probable that an event will occur in the long term, and possible in the short term.                                |
| <b>Low Likelihood</b>  | There is a pollutant linkage and circumstances are such that an event could occur, but it is not probable in the long term and even less likely in the short term. |
| <b>Unlikely</b>        | There is a pollutant linkage but it is unlikely that an event would occur even in the very long term.  |

The following table outlines the classification of consequence, based on CIRIA C552;

*Table 6.2: Classification of Consequence*

| Classification | Definition   |
|----------------|--|
| <b>Severe</b>  | Short term (acute) risk to human health likely to result in “significant harm” as defined by the Environmental Protection Act 1990 and/or short-term risk of pollution of sensitive water resources and/or catastrophic damage to buildings or property. |
| <b>Medium</b>  | Long term (chronic) damage to human health likely to result in “significant harm” as defined by the Environmental Protection Act 1990 and/or significant pollution of sensitive water resources and/or significant change in a defined ecosystem.        |
| <b>Mild</b>    | Long term harm to human health but not significant as defined by the Environmental Protection Act 1990 and/or pollution of non-sensitive water resources and non-significant pollution of sensitive water resources.                                     |
| <b>Minor</b>   | Harm, not significant, but that could result in financial loss or cost implications. Non-permanent human health effects.   |

Following classification of the probability and severity, a risk category can be assigned. The following table, taken from CIRIA C552 summarises this process;

Table 6.3: Risk Classification Matrix

| Risk Classification Matrix |                 |                |                |                |                |
|----------------------------|-----------------|----------------|----------------|----------------|----------------|
| Taken from CIRIA C552      |                 | Consequence    |                |                |                |
|                            |                 | Severe         | Medium         | Mild           | Minor          |
| Probability                | 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       |

The risk categories are defined as follows;

Table 6.4: Risk Categories

| Classification   | Definition   |
|------------------|--|
| <b>Very High</b> | There is a high probability that severe harm could arise to a designated receptor from an identified hazard OR there is evidence that severe harm to a designated receptor is currently happening. Urgent investigation and remediation are likely to be required. |
| <b>High</b>      | Harm is likely to arise to a designated receptor from an identified hazard. Urgent investigation is required and remedial works may be necessary.  |
| <b>Moderate</b>  | It is possible that harm could arise to a designated receptor from an identified hazard. However it is relatively unlikely that any such harm would be severe.   |
| <b>Low</b>       | It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.  |
| <b>Very Low</b>  | There is a low possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe.   |

## 6.2 Preliminary Conceptual Site Model

This conceptual site model has been undertaken with due regard to guidance provided in BS10175:2011, CLR11 and CIRIA C552. The assessment of risk from land contamination also pays due regard to the definition of contaminated land, as defined within Part 2A of the Environment Protection Act 1990. This legislation defines contaminated land as any land that is in such a condition that by reason of substances in, on or under the land:

- ✓ Significant harm is being caused or there is a significant possibility of such harm being caused; or
- ✓ Pollution of controlled water is being, or is likely to be, caused.

Potential sources of contamination identified from current activities and the history of the site and surrounding area are presented in table 6.5 below.

Table 6.5: Potential Sources of Contamination

| Potential Sources  | Contaminants of Concern   |
|--|---|
| On site: potential historic coal mining  | Ground gas (methane, carbon dioxide, carbon monoxide etc), heavy metals, PAH  |
| On site: Potential infilled land / made ground   | Ground gas (methane, carbon dioxide, carbon monoxide etc), heavy metals, PAH, TPH, organics   |
| Off Site: Historic Coal Mining including an air shaft just off-site, Abercrave colliery just south of the site and purification works. | Ground gas (methane, carbon dioxide, carbon monoxide etc), heavy metals, PAH, TPH (possibly removed by subsequent opencast working) |
| Off site: Neath and Brecon historic railway and associated train station   | PAH, TPH, heavy metals, asbestos (possibly removed by subsequent opencast working)  |
| Off site: Tank of unknown use  | PAH, TPH  |

The conceptual site model is derived from an assessment of the above potential sources of contamination, using the criteria set out in CIRIA C552 and tables 6.1-6.4 above. The table, overleaf, is based on the proposed use and the site in its current condition.

### 6.3 Preliminary Conceptual Site Model Matrix

Table 6.6: Preliminary Conceptual Site Model

| Preliminary Conceptual Model  |  |   |                |          |  |
|---|--|---|----------------|----------|--|
| Source(s)   | Pathway(s)   | Receptor(s)   | Probability    | Severity | Risk Assessment  |
| On Site: Radon Gas  | Ingress into proposed buildings  | Future site users   | Unlikely       | Medium   | <b>Low Risk</b> – The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). No radon protective measures are necessary in the construction of new dwellings or extensions.  |
| On Site: potential historic coal mining ((Ground gas (methane, carbon dioxide, carbon monoxide etc), heavy metals, PAH))  | Dermal contact<br>Soil and dust ingestion and inhalation<br>Ingress into proposed buildings                            | Future site users<br>Site workers<br>Site flora and fauna | Low Likelihood | Medium   | <b>Moderate / Low Risk</b> – Historic maps dating to 1877 do not indicate historic surface or underground workings on site, however given the intensity of mining in the immediate vicinity of the site, particularly to the south, and the presence of an outcrop beneath the site, historic mining activity cannot be ruled out.   |
| On Site: Potential infilled land / made ground ((Ground gas (methane, carbon dioxide, carbon monoxide etc), heavy metals, PAH, TPH, organics))  | Dermal contact<br>Soil and dust ingestion and inhalation<br>Ingress into proposed buildings                            | Future site users<br>Site workers<br>Site flora and fauna | Low Likelihood | Medium   | <b>Moderate / Low Risk</b> – Historic maps suggest that no major earthworks / infilling has taken place on site, nonetheless the environmental data indicates that potentially infilled land exists on site, as does the walkover survey. Any infilled land could potentially be comprised of colliery spoil, given its abundance in the immediate vicinity of the site.   |
| Off Site: Historic Coal Mining including an air shaft just off-site, Aber-craft colliery just south of the site and purification works. (Ground gas (methane, carbon dioxide, carbon monoxide etc), heavy metals, PAH, TPH) | Dermal contact<br>Soil and dust ingestion and inhalation<br>Ground & surface waters<br>Ingress into proposed buildings | Future site users<br>Site workers<br>Site flora and fauna | Likely         | Medium   | <b>Moderate Risk</b> – Intensive coal mining has taken place in the immediate vicinity of the site, including most notably an air shaft 8m southwest of the site, and Aber-craft colliery just 25m south of the site.<br>The state of the air shaft is unknown. If it has been capped, it has the potential to be source of ground gas.<br>Whilst former collieries and a purification works were present to the south (upslope) of the site, subsequent opencast mining appears to have removed these features. The potential for ground gas migration through opencast backfill and old workings, however, still presents a potential pollutant linkage. |



|  |  |  |                       |               |   |
|--|--|--|-----------------------|---------------|---|
| <p>Off Site: Neath and Brecon historic railway and associated train station (PAH, TPH, heavy metals, asbestos)</p> | <p>Dermal contact<br/>Soil and dust ingestion and inhalation<br/>Ground &amp; surface waters</p> | <p>Future site users<br/>Site workers<br/>Site flora and fauna</p> | <p>Low Likelihood</p> | <p>Medium</p> | <p><b>Moderate / Low Risk</b> – The Neath – Brecon Railway passed immediately south of the site until the 1970s. The close proximity to the site presents a relatively low chance of contaminant transmittal to the site. Given the elapsed time since the railway was operational, and the subsequent opencast operations, the chance of hydrocarbon contamination is again, relatively low, however it cannot be ruled out.</p> |
| <p>Off Site: Tank of unknown use (PAH, TPH)</p>  | <p>Dermal contact<br/>Soil and dust ingestion and inhalation<br/>Ground &amp; surface waters</p> | <p>Future site users<br/>Site workers<br/>Site flora and fauna</p> | <p>Unlikely</p>       | <p>Medium</p> | <p><b>Low Risk</b> – A tank of unknown use is noted 22m west of the site, in the haulage depot. Given that the tank is steeply downslope of the site, the chance of hydrocarbons migrating onto site are considered unlikely.</p>   |

## 7 CONCLUSIONS AND RECOMMENDATIONS

### 7.1 Geotechnical Considerations

Any Made Ground encountered on site will not suffice as a suitable bearing, therefore shallow foundations should be placed in the underlying natural material. Unrecorded historical mining may have resulted in voids, shafts, drifts, outcrop workings, buried highwalls and unconsolidated backfill which could require measures to mitigate against ground collapse or differential settlement.

If the site is unaffected by mining related features, conventional strip foundations may be viable at this site; however a site investigation will be required to confirm this. It would also be considered prudent to carry out soakaway testing in accordance with BRE 365 to assess the sites suitability for conventional drainage.

### 7.2 Conclusions

The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). No radon protective measures are necessary in the construction of new dwellings or extensions.

Historic maps dating to 1877 do not indicate historic surface or underground workings on site, however given the intensity of mining in the immediate vicinity of the site, particularly to the south, and the presence of an outcrop beneath the site, historic mining activity cannot be ruled out.

Historic maps suggest that no major earthworks / infilling has taken place on site, nonetheless the environmental data indicates that potentially infilled land exists on site, as does the walkover survey. Any infilled land could potentially be comprised of colliery spoil, given its abundance in the immediate vicinity of the site.

Intensive coal mining has taken place in the immediate vicinity of the site, including most notably an air shaft 8m southwest of the site, and Aber-craft colliery just 25m south of the site. The state of the air shaft is unknown. If it has been capped, it has the potential to be source of ground gas. Whilst former collieries and a purification works were present to the south (upslope) of the site, subsequent opencast mining appears to have removed these features. The potential for ground gas migration through opencast backfill and old workings, however, still presents a potential pollutant linkage.

The Neath – Brecon Railway passed immediately south of the site until the 1970s. The close proximity to the site presents a relatively low chance of contaminant transmittal to the site. Given the elapsed time since the railway was operational, and the subsequent opencast operations, the chance of hydrocarbon contamination is again, relatively low, however it cannot be ruled out.

A tank of unknown use is noted 22m west of the site, in the haulage depot. Given that the tank is steeply downslope of the site, the chance of hydrocarbons migrating onto site are considered unlikely.

### 7.3 Recommendations

It is recommended that a Phase II Site Investigation be implemented in order to identify, quantify and delineate any potential areas of contamination on site highlighted in the Preliminary Conceptual Model. The Phase II Site Investigation should also include a geotechnical assessment of the site and may also need to investigate the presence of mining related features beneath the site. The scope of the investigation should be determined following the completion of the recommended Coal Mining Risk Assessment.

No development, including intrusive investigations, should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority. The investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any intrusive investigation or ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed.

In the event unexpected contamination is found during development, work should cease until the material can be identified and remediated appropriately.

All site workers should be equipped with the correct PPE and have undertaken suitable risk assessments, job safety and environmental analysis before work commences.

Waste material to be removed from site should be handled by a suitably licensed waste contractor.

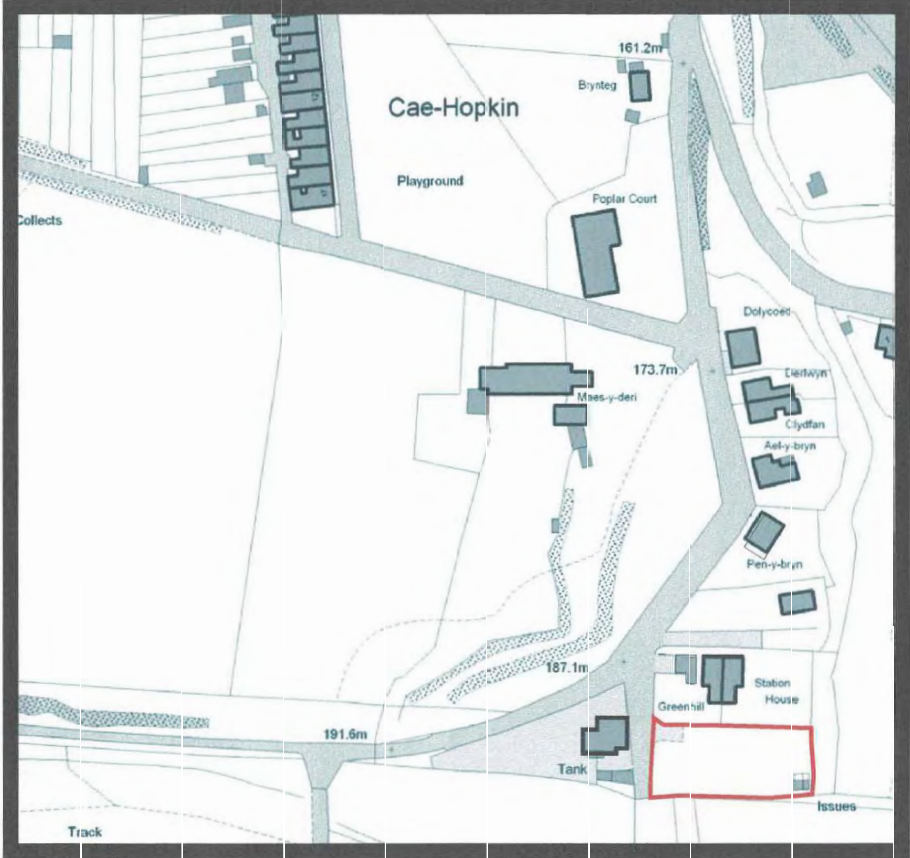
## 8 REFERENCES

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## Figure 2.1

# Site Location & Layout Plan





|                      |                      |  |                      |                   |
|----------------------|----------------------|--|----------------------|-------------------|
| <b>Project Title</b> | Proposed Development |  | <b>Drawing Title</b> | Location Plan     |
|                      | Land at Greenhill    |  | <b>Date</b>          | 27th October 2014 |
|                      | Station Road         |  | <b>Drawn</b>         | J. Hopkins        |
|                      | Caehopkin            |  | <b>Scale</b>         | 1:1250            |
|                      | Svansea              |  | <b>Drawing No</b>    | GP/01             |
|                      | SA9 1TP              |  |                      |                   |



## Figure 2.2

# Proposed Site Plan



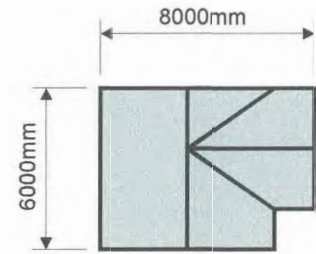


Station Road

Greenhill

Station House

To Station Road



Proposed Footprint  
(subject to reserved matters)

Height of Building:

Max 8000mm  
Min 7200mm

**Project Title** Proposed Development  
Land at Greenhill  
Station Road  
Caehopkin  
Swansea  
SA9 1TP

**Drawing Title** Proposed Site Plan

**Date** 27th October 2014 **Drawn** J. Hopkins

**Scale** 1:200

**Drawing No** GP/D2

# Appendix A

## Site Photographs





# SITE PHOTOGRAPHS



PLATE 1



PLATE 2

**SITE:** Greenhill, Station Road, Caehopkin, Swansea, SA9 1TP

**REF:** 22075

**CLIENT:** Mr John Hopkin



# SITE PHOTOGRAPHS



**PLATE 3**



**PLATE 4**

**SITE:** Greenhill, Station Road, Caehopkin, Swansea, SA9 1TP

**REF:** 22075

**CLIENT:** Mr John Hopkin



# SITE PHOTOGRAPHS



**PLATE 5**



**PLATE 6**

**SITE:** Greenhill, Station Road, Caehopkin, Swansea, SA9 1TP

**REF:** 22075

**CLIENT:** Mr John Hopkin



# SITE PHOTOGRAPHS



**PLATE 7**



**PLATE 8**

**SITE:** Greenhill, Station Road, Caehopkin, Swansea, SA9 1TP

**REF:** 22075

**CLIENT:** Mr John Hopkin



# SITE PHOTOGRAPHS



PLATE 9



PLATE 10

**SITE:** Greenhill, Station Road, Caehopkin, Swansea, SA9 1TP

**REF:** 22075

**CLIENT:** Mr John Hopkin



# SITE PHOTOGRAPHS



**PLATE 11**

**SITE:** Greenhill, Station Road, Caehopkin, Swansea, SA9 1TP

**REF:** 22075

**CLIENT:** Mr John Hopkin

## Appendix B

# Environmental Data & Maps



# Envirocheck<sup>®</sup> Report:

## Datasheet

### Order Details:

**Order Number:**

292667940\_2\_1

**Customer Reference:**

22075

**National Grid Reference:**

282450, 212120

**Slice:**

A

**Site Area (Ha):**

0.1

**Search Buffer (m):**

1000

### Site Details:

Greenhill, Station Road

Caehopkin

Abercrave

SWANSEA

SA9 1TP

### Client Details:

Mr D Jobson

Ground Consultants Ltd

Head Office

Wadebridge

Cornwall

PL27 6AU

| Report Section        | Page Number |
|-----------------------|-------------|
| Summary               | -           |
| Agency & Hydrological | 1           |
| Waste                 | 39          |
| Hazardous Substances  | -           |
| Geological            | 41          |
| Industrial Land Use   | 52          |
| Sensitive Land Use    | 54          |
| Data Currency         | 56          |
| Data Suppliers        | 63          |
| Useful Contacts       | 64          |

#### Introduction

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

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#### Report Version v53.0

| Data Type   | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|-------------|---------|-----------|-------------|-----------------------------|
| <b>Agency &amp; Hydrological</b>                              |             |         |           |             |                             |
| BGS Groundwater Flooding Susceptibility                       | pg 1        |         | Yes       | Yes         | n/a                         |
| Contaminated Land Register Entries and Notices                |             |         |           |             |                             |
| Discharge Consents  | pg 3        |         | 5         |             | 18                          |
| Prosecutions Relating to Controlled Waters                    |             |         | n/a       | n/a         | n/a                         |
| Enforcement and Prohibition Notices                           |             |         |           |             |                             |
| Integrated Pollution Controls                                 |             |         |           |             |                             |
| Integrated Pollution Prevention And Control                   |             |         |           |             |                             |
| Local Authority Integrated Pollution Prevention And Control   |             |         |           |             |                             |
| Local Authority Pollution Prevention and Controls             | pg 8        |         |           |             | 1                           |
| Local Authority Pollution Prevention and Control Enforcements |             |         |           |             |                             |
| Nearest Surface Water Feature                                 | pg 8        |         | Yes       |             |                             |
| Pollution Incidents to Controlled Waters                      | pg 8        |         |           | 2           | 3                           |
| Prosecutions Relating to Authorised Processes                 |             |         |           |             |                             |
| Registered Radioactive Substances                             |             |         |           |             |                             |
| River Quality   | pg 9        |         |           |             | 2                           |
| River Quality Biology Sampling Points                         | pg 10       |         |           |             | 1                           |
| River Quality Chemistry Sampling Points                       |             |         |           |             |                             |
| Substantiated Pollution Incident Register                     |             |         |           |             |                             |
| Water Abstractions  | pg 10       |         |           |             | 10 (*12)                    |
| Water Industry Act Referrals                                  |             |         |           |             |                             |
| Groundwater Vulnerability Map                                 | pg 15       | Yes     | n/a       | n/a         | n/a                         |
| Bedrock Aquifer Designations                                  | pg 15       | Yes     | n/a       | n/a         | n/a                         |
| Superficial Aquifer Designations                              |             |         | n/a       | n/a         | n/a                         |
| Source Protection Zones                                       |             |         |           |             |                             |
| Extreme Flooding from Rivers or Sea without Defences          |             |         |           | n/a         | n/a                         |
| Flooding from Rivers or Sea without Defences                  |             |         |           | n/a         | n/a                         |
| Areas Benefiting from Flood Defences                          |             |         |           | n/a         | n/a                         |
| Flood Water Storage Areas                                     |             |         |           | n/a         | n/a                         |
| Flood Defences  |             |         |           | n/a         | n/a                         |
| OS Water Network Lines  | pg 16       |         | 23        | 40          | 139                         |

| Data Type   | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|-------------|---------|-----------|-------------|-----------------------------|
| <b>Waste</b>  |             |         |           |             |                             |
| BGS Recorded Landfill Sites   |             |         |           |             |                             |
| Historical Landfill Sites   |             |         |           |             |                             |
| Integrated Pollution Control Registered Waste Sites                 |             |         |           |             |                             |
| Licensed Waste Management Facilities (Landfill Boundaries)          |             |         |           |             |                             |
| Licensed Waste Management Facilities (Locations)                    |             |         |           |             |                             |
| Local Authority Landfill Coverage                                   | pg 39       | 1       | n/a       | n/a         | n/a                         |
| Local Authority Recorded Landfill Sites                             |             |         |           |             |                             |
| Potentially Infilled Land (Non-Water)                               | pg 39       | 1       | 3         | 5           | 15                          |
| Potentially Infilled Land (Water)                                   | pg 40       |         | 1         | 1           | 3                           |
| Registered Landfill Sites   |             |         |           |             |                             |
| Registered Waste Transfer Sites                                     |             |         |           |             |                             |
| Registered Waste Treatment or Disposal Sites                        |             |         |           |             |                             |
| <b>Hazardous Substances</b>   |             |         |           |             |                             |
| Control of Major Accident Hazards Sites (COMAH)                     |             |         |           |             |                             |
| Explosive Sites   |             |         |           |             |                             |
| Notification of Installations Handling Hazardous Substances (NIHHS) |             |         |           |             |                             |
| Planning Hazardous Substance Consents                               |             |         |           |             |                             |
| Planning Hazardous Substance Enforcements                           |             |         |           |             |                             |

| Data Type   | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|-------------|---------|-----------|-------------|-----------------------------|
| <b>Geological</b>   |             |         |           |             |                             |
| BGS 1:625,000 Solid Geology                                       | pg 41       | Yes     | n/a       | n/a         | n/a                         |
| BGS Estimated Soil Chemistry                                      | pg 41       | Yes     | Yes       | Yes         | Yes                         |
| BGS Recorded Mineral Sites  | pg 44       |         | 8         | 5           | 20                          |
| BGS Urban Soil Chemistry  |             |         |           |             |                             |
| BGS Urban Soil Chemistry Averages                                 |             |         |           |             |                             |
| CBSCB Compensation District                                       |             |         | n/a       | n/a         | n/a                         |
| Coal Mining Affected Areas  | pg 50       | Yes     | n/a       | n/a         | n/a                         |
| Mining Instability  | pg 50       | Yes     | n/a       | n/a         | n/a                         |
| Man-Made Mining Cavities  |             |         |           |             |                             |
| Natural Cavities  |             |         |           |             |                             |
| Non Coal Mining Areas of Great Britain                            | pg 50       | Yes     |           | n/a         | n/a                         |
| Potential for Collapsible Ground Stability Hazards                | pg 50       | Yes     |           | n/a         | n/a                         |
| Potential for Compressible Ground Stability Hazards               | pg 50       |         | Yes       | n/a         | n/a                         |
| Potential for Ground Dissolution Stability Hazards                |             |         |           | n/a         | n/a                         |
| Potential for Landslide Ground Stability Hazards                  | pg 50       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Running Sand Ground Stability Hazards               | pg 51       |         | Yes       | n/a         | n/a                         |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards | pg 51       | Yes     |           | n/a         | n/a                         |
| Radon Potential - Radon Affected Areas                            | pg 51       | Yes     | n/a       | n/a         | n/a                         |
| Radon Potential - Radon Protection Measures                       |             |         | n/a       | n/a         | n/a                         |
| <b>Industrial Land Use</b>  |             |         |           |             |                             |
| Contemporary Trade Directory Entries                              | pg 52       |         |           |             | 1                           |
| Fuel Station Entries  |             |         |           |             |                             |
| Points of Interest - Commercial Services                          |             |         |           |             |                             |
| Points of Interest - Education and Health                         |             |         |           |             |                             |
| Points of Interest - Manufacturing and Production                 | pg 52       |         | 1         |             | 7                           |
| Points of Interest - Public Infrastructure                        | pg 52       |         |           | 2           | 7                           |
| Points of Interest - Recreational and Environmental               | pg 53       |         | 2         |             | 1                           |
| Gas Pipelines   |             |         |           |             |                             |
| Underground Electrical Cables                                     |             |         |           |             |                             |



| Data Type                            | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|--------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Sensitive Land Use</b>            |             |         |           |             |                             |
| Ancient Woodland                     | pg 54       |         | 2         | 3           | 19                          |
| 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                       | pg 55       |         |           | 1           |                             |
| Nitrate Sensitive Areas              |             |         |           |             |                             |
| Nitrate Vulnerable Zones             |             |         |           |             |                             |
| Ramsar Sites                         |             |         |           |             |                             |
| Sites of Special Scientific Interest |             |         |           |             |                             |
| Special Areas of Conservation        |             |         |           |             |                             |
| Special Protection Areas             |             |         |           |             |                             |
| World Heritage Sites                 |             |         |           |             |                             |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A13NE (NE)                             | 101                          | 1       | 282550<br>212200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (N)                              | 170                          | 1       | 282500<br>212300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (NE)                             | 172                          | 1       | 282600<br>212250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (NE)                             | 184                          | 1       | 282550<br>212300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13NE (NE)                             | 209                          | 1       | 282600<br>212300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13NE (NE)                             | 211                          | 1       | 282650<br>212250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (NW)                             | 212                          | 1       | 282300<br>212300 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (NW)                             | 215                          | 1       | 282250<br>212250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A13NE (N)                              | 220                          | 1       | 282500<br>212350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A13NE (E)                              | 225                          | 1       | 282700<br>212150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (NE)                             | 231                          | 1       | 282550<br>212350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (E)                              | 235                          | 1       | 282700<br>212200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13SE (SE)                             | 238                          | 1       | 282650<br>211950 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13NE (NE)                             | 251                          | 1       | 282600<br>212350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A13NE (N)                              | 279                          | 1       | 282550<br>212400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (W)                              | 281                          | 1       | 282150<br>212150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13NW (NW)                             | 282                          | 1       | 282250<br>212350 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (E)                              | 283                          | 1       | 282750<br>212200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (NE)                             | 296                          | 1       | 282600<br>212400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A13NW (NW)                             | 304                          | 1       | 282150<br>212250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NW (N)                              | 316                          | 1       | 282450<br>212450 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A13NE (NE)                             | 320                          | 1       | 282650<br>212400 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14NW (E)                              | 332                          | 1       | 282800<br>212200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A12NE (W)                              | 338                          | 1       | 282100<br>212200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A12NE (W)                              | 351                          | 1       | 282100<br>212250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A13NE (NE)                             | 363                          | 1       | 282650<br>212450 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SE (N)                              | 369                          | 1       | 282500<br>212500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SW (N)                              | 389                          | 1       | 282300<br>212500 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A18SE (N)                              | 425                          | 1       | 282550<br>212550 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14NW (E)                              | 430                          | 1       | 282900<br>212200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A12NE (W)                              | 431                          | 1       | 282000<br>212150 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A12NE (W)                              | 446                          | 1       | 282000<br>212250 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SW (NW)                             | 454                          | 1       | 282250<br>212550 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14NW (NE)                             | 455                          | 1       | 282800<br>212450 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A12NE (NW)                             | 465                          | 1       | 282050<br>212400 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A18SE (NE)                             | 475                          | 1       | 282700<br>212550 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A14NW (E)                              | 479                          | 1       | 282950<br>212200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level | A12NE (W)                              | 486                          | 1       | 281950<br>212200 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                        | A14SW (E)                              | 487                          | 1       | 282950<br>212000 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding to Occur at Surface                     | A12NE (W)                              | 495                          | 1       | 281950<br>212250 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 1      | <p><b>Discharge Consents</b></p> <p>Operator: Celtic Energy Ltd<br/> Property Type: Coal Extraction, Surface<br/> Location: Nant Helen Occs Outlet D<br/> Authority: Natural Resources Wales<br/> Catchment Area: River Tawe<br/> Reference: Bm0032104<br/> Permit Version: 3<br/> Effective Date: 14th September 1992<br/> Issued Date: 14th September 1992<br/> Revocation Date: 18th November 1998<br/> Discharge Type: Trade Effluent<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: Unnamed Trib Of River Tawe<br/> <b>Status: Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b><br/> Positional Accuracy: Located by supplier to within 100m</p> | A13SW (SW)                             | 37                           | 2       | 282410<br>212080 |
| 1      | <p><b>Discharge Consents</b></p> <p>Operator: Celtic Energy Ltd<br/> Property Type: Coal Extraction, Surface<br/> Location: Nant Helen Occs Outlet D<br/> Authority: Natural Resources Wales<br/> Catchment Area: River Tawe<br/> Reference: Bm0032104<br/> Permit Version: 2<br/> Effective Date: 11th July 1990<br/> Issued Date: 11th July 1990<br/> Revocation Date: 13th September 1992<br/> Discharge Type: Trade Effluent<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: Unnamed Trib Of River Tawe<br/> <b>Status: Authorisation revoked</b><br/> Positional Accuracy: Located by supplier to within 10m</p>   | A13SW (SW)                             | 37                           | 2       | 282410<br>212080 |
| 1      | <p><b>Discharge Consents</b></p> <p>Operator: Celtic Energy Ltd<br/> Property Type: Coal Extraction, Surface<br/> Location: Nant Helen Occs Outlet D<br/> Authority: Natural Resources Wales<br/> Catchment Area: River Tawe<br/> Reference: Bm0032104<br/> Permit Version: 1<br/> Effective Date: 30th January 1985<br/> Issued Date: 30th January 1985<br/> Revocation Date: 10th July 1990<br/> Discharge Type: Unspecified<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: Unnamed Trib Of River Tawe<br/> <b>Status: Authorisation revoked</b><br/> Positional Accuracy: Located by supplier to within 10m</p>   | A13SW (SW)                             | 37                           | 2       | 282410<br>212080 |
| 2      | <p><b>Discharge Consents</b></p> <p>Operator: Dwr Cymru Cyfyngedig<br/> Property Type: Sewerage Network - Sewers - Water Company<br/> Location: Station Rd Gwynfrynlen Cso, End Of Abercrave Terrace, Caehopkin, Abercrave, Sa9 1tp<br/> Authority: Natural Resources Wales<br/> Catchment Area: TAWE - CONF WITH NANT LLECH TO CONF WITH GIEDD<br/> Reference: Cb3193cj<br/> Permit Version: 1<br/> Effective Date: 1st June 2021<br/> Issued Date: 1st June 2021<br/> Revocation Date: Not Supplied<br/> Discharge Type: Not Supplied<br/> Discharge: Freshwater Stream/River<br/> Environment:<br/> Receiving Water: Nant Helen<br/> <b>Status: Effective</b><br/> Positional Accuracy: Located by supplier to within 10m</p>   | A13NE (N)                              | 220                          | 2       | 282464<br>212352 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 2      | <p><b>Discharge Consents</b></p> <p>Operator: Dwr Cymru Cyfyngedig<br/> Property Type: Sewerage Network - Sewers - Water Company<br/> Location: Station Rd Gwynfrynlen Cso, End Of Abercrave Terrace, Caehopkin, Abercrave, Sa9 1tp<br/> Authority: Natural Resources Wales<br/> Catchment Area: TAWE - CONF WITH NANT LLECH TO CONF WITH GIEDD<br/> Reference: Cb3193cj<br/> Permit Version: 1<br/> Effective Date: 1st June 2021<br/> Issued Date: 1st June 2021<br/> Revocation Date: Not Supplied<br/> Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br/> Discharge: Freshwater Stream/River<br/> Environment:<br/> Receiving Water: Nant Helen<br/> <b>Status: Effective</b><br/> Positional Accuracy: Located by supplier to within 10m</p>                                       | A13NE (N)                              | 220                          | 2       | 282464<br>212352 |
| 3      | <p><b>Discharge Consents</b></p> <p>Operator: Tawe And Tributaries Angling Assoc<br/> Property Type: Fish Farm<br/> Location: Abercave House Ponds Abercrave Swa, Abercrave Swansea Valley<br/> Authority: Natural Resources Wales<br/> Catchment Area: River Tawe<br/> Reference: BP0169801<br/> Permit Version: 1<br/> Effective Date: 13th August 1991<br/> Issued Date: 13th August 1991<br/> Revocation Date: 10th June 2005<br/> Discharge Type: Freshwater<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: Tawe River<br/> <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br/> Positional Accuracy: Located by supplier to within 100m</p>   | A18SE (N)                              | 582                          | 2       | 282600<br>212700 |
| 4      | <p><b>Discharge Consents</b></p> <p>Operator: The Company Secretary<br/> Property Type: Coal Extraction, Surface<br/> Location: International Tips Reclamation Area, Nant Helen Extension Occs, Coelbren, Nr Abercraf<br/> Authority: Natural Resources Wales<br/> Catchment Area: Not Supplied<br/> Reference: Bp0300901<br/> Permit Version: 1<br/> Effective Date: 28th February 2003<br/> Issued Date: 28th February 2003<br/> Revocation Date: Not Supplied<br/> Discharge Type: Trade Discharges - Site Drainage<br/> Discharge: Freshwater Stream/River<br/> Environment:<br/> Receiving Water: A Trib Of The River Tawe<br/> <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b><br/> Positional Accuracy: Located by supplier to within 10m</p> | A12NE (W)                              | 602                          | 2       | 281871<br>212355 |
| 5      | <p><b>Discharge Consents</b></p> <p>Operator: Dwr Cymru Cyfyngedig<br/> Property Type: Sewerage Network - Sewers - Water Company<br/> Location: Cso At Rear Of Lonlas Station Road Abercrave, R/O Lonlas Station, Powys, Sa9 1xr<br/> Authority: Natural Resources Wales<br/> Catchment Area: TAWE - CONF WITH NANT LLECH TO CONF WITH GIEDD<br/> Reference: Cb3192fq<br/> Permit Version: 1<br/> Effective Date: 1st June 2021<br/> Issued Date: 1st June 2021<br/> Revocation Date: Not Supplied<br/> Discharge Type: Not Supplied<br/> Discharge: Freshwater Stream/River<br/> Environment:<br/> Receiving Water: River Tawe<br/> <b>Status: Effective</b><br/> Positional Accuracy: Located by supplier to within 10m</p>   | A18SE (N)                              | 642                          | 2       | 282559<br>212768 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 5      | <p><b>Discharge Consents</b></p> <p>Operator: Dwr Cymru Cyfyngedig<br/> Property Type: Sewerage Network - Sewers - Water Company<br/> Location: Cso At Rear Of Lonlas Station Road Abercrave, R/O Lonlas Station, Powys, Sa9 1xr<br/> Authority: Natural Resources Wales<br/> Catchment Area: TAWE - CONF WITH NANT LLECH TO CONF WITH GIEDD<br/> Reference: Cb3192fq<br/> Permit Version: 1<br/> Effective Date: 1st June 2021<br/> Issued Date: 1st June 2021<br/> Revocation Date: Not Supplied<br/> Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br/> Discharge: Freshwater Stream/River<br/> Environment:<br/> Receiving Water: River Tawe<br/> <b>Status: Effective</b><br/> Positional Accuracy: Located by supplier to within 10m</p> | A18SE (N)                              | 642                          | 2       | 282559<br>212768 |
| 5      | <p><b>Discharge Consents</b></p> <p>Operator: Tawe And Tributaries Angling Assoc<br/> Property Type: Fish Farm<br/> Location: Tawe &amp; Tribs Angling Assoc'N Heol T, Tawe &amp; Tribs Angling Association, Heol Tawe, Abercrave, Swansea<br/> Authority: Natural Resources Wales<br/> Catchment Area: TAWE - CONF WITH NANT LLECH TO CONF WITH GIEDD<br/> Reference: Bp0169801<br/> Permit Version: 2<br/> Effective Date: 11th June 2005<br/> Issued Date: 10th June 2005<br/> Revocation Date: Not Supplied<br/> Discharge Type: Agriculture - Fish Farming - Not Water Company<br/> Discharge: Freshwater Stream/River<br/> Environment:<br/> Receiving Water: Tawe River<br/> <b>Status: Effective</b><br/> Positional Accuracy: Located by supplier to within 10m</p>       | A18NE (N)                              | 673                          | 2       | 282560<br>212799 |
| 6      | <p><b>Discharge Consents</b></p> <p>Operator: British Coal Opencast<br/> Property Type: Coal Extraction, Surface<br/> Location: Onllwyn Opencast Site Point B (Aban, Point B (Abandoned)<br/> Authority: Natural Resources Wales<br/> Catchment Area: River Tawe<br/> Reference: Bc0013002<br/> Permit Version: 1<br/> Effective Date: 1st July 1971<br/> Issued Date: 1st July 1971<br/> Revocation Date: 2nd March 1992<br/> Discharge Type: Unspecified<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: Nant Helen<br/> <b>Status: Consent expired</b><br/> Positional Accuracy: Located by supplier to within 100m</p>  | A9NW (SE)                              | 665                          | 2       | 282900<br>211600 |
| 7      | <p><b>Discharge Consents</b></p> <p>Operator: Dwr Cymru Cyfyngedig<br/> Property Type: Water Supply Grid<br/> Location: Lion Tnk Chlor.Overflow<br/> Authority: Natural Resources Wales<br/> Catchment Area: Not Supplied<br/> Reference: Bp0187301<br/> Permit Version: 1<br/> Effective Date: 2nd October 1989<br/> Issued Date: 2nd October 1989<br/> Revocation Date: 14th March 1994<br/> Discharge Type: Unspecified<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: To Land<br/> <b>Status: Consent expired</b><br/> Positional Accuracy: Located by supplier to within 100m</p>   | A18NW (N)                              | 767                          | 2       | 282400<br>212900 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 8      | <p><b>Discharge Consents</b></p> <p>Operator: H P Lewis<br/> Property Type: Undefined Or Other<br/> Location: Bronwydd Caehopkin Abercrave Swansea, Caehopkin Abercrave Swansea<br/> Authority: Natural Resources Wales<br/> Catchment Area: Not Supplied<br/> Reference: Bm0033201<br/> Permit Version: 1<br/> Effective Date: 21st October 1983<br/> Issued Date: 21st October 1983<br/> Revocation Date: 24th February 1995<br/> Discharge Type: Unspecified<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: Underground Strata<br/> <b>Status: Consent expired</b><br/> Positional Accuracy: Located by supplier to within 10m</p>   | A14NE (NE)                             | 791                          | 2       | 283200<br>212450 |
| 9      | <p><b>Discharge Consents</b></p> <p>Operator: Dwr Cymru Cyfyngedig<br/> Property Type: Sewerage Network - Sewers - Water Company<br/> Location: Cso M'Hole 14 Abercrave St.Davids C, Opp St.David'S Church, Brecon Road, Penycae, Swansea, Sa9 1tl<br/> Authority: Natural Resources Wales<br/> Catchment Area: TAWE - CONF WITH NANT LLECH TO CONF WITH GIEDD<br/> Reference: Bw0600801<br/> Permit Version: 3<br/> Effective Date: 17th December 2019<br/> Issued Date: 17th December 2019<br/> Revocation Date: Not Supplied<br/> Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br/> Discharge: Freshwater Stream/River<br/> Environment:<br/> Receiving Water: River Tawe<br/> <b>Status: Effective</b><br/> Positional Accuracy: Located by supplier to within 10m</p> | A19SW (NE)                             | 807                          | 2       | 283061<br>212687 |
| 10     | <p><b>Discharge Consents</b></p> <p>Operator: Mr David Gordon Norton<br/> Property Type: Domestic Property (Single)<br/> Location: Cefn Coed Uchaf Pen Y Cae Swansea, Pen Y Cae Swansea Valley<br/> Authority: Natural Resources Wales<br/> Catchment Area: Not Given<br/> Reference: BM0011001<br/> Permit Version: 1<br/> Effective Date: 10th December 1980<br/> Issued Date: 10th December 1980<br/> Revocation Date: Not Supplied<br/> Discharge Type: Unspecified<br/> Discharge: Land/Soakaway<br/> Environment:<br/> Receiving Water: Underground Strata<br/> <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br/> Positional Accuracy: Located by supplier to within 100m</p>  | A19SE (NE)                             | 832                          | 2       | 283170<br>212590 |
| 11     | <p><b>Discharge Consents</b></p> <p>Operator: Dwr Cymru Cyfyngedig<br/> Property Type: Sewerage Network - Sewers - Water Company<br/> Location: Swo.M'Hole 14 Abercrave St.Davids C, Abercrave St.Davids Church<br/> Authority: Natural Resources Wales<br/> Catchment Area: TAWE - CONF WITH NANT LLECH TO CONF WITH GIEDD<br/> Reference: Bw0600801<br/> Permit Version: 2<br/> Effective Date: 8th September 2010<br/> Issued Date: 8th September 2010<br/> Revocation Date: Not Supplied<br/> Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br/> Discharge: Freshwater Stream/River<br/> Environment:<br/> Receiving Water: River Tawe<br/> <b>Status: Effective</b><br/> Positional Accuracy: Located by supplier to within 10m</p>                                    | A19SW (NE)                             | 865                          | 2       | 283090<br>212740 |



| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 11     | <p><b>Discharge Consents</b></p> <p>Operator: Dwr Cymru Cyfyngedig<br/> Property Type: Sewerage Network - Sewers - Water Company<br/> Location: Swo.M'Hole 14 Abercrave St.Davids C, Abercrave St.Davids Church<br/> Authority: Natural Resources Wales<br/> Catchment Area: TAWE - CONF WITH NANT LLECH TO CONF WITH GIEDD<br/> Reference: Bw0600801<br/> Permit Version: 2<br/> Effective Date: 8th September 2010<br/> Issued Date: 8th September 2010<br/> Revocation Date: Not Supplied<br/> Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company<br/> Discharge: Freshwater Stream/River<br/> Environment:<br/> Receiving Water: River Tawe<br/> <b>Status: Effective</b><br/> Positional Accuracy: Located by supplier to within 10m</p> | A19SW (NE)                             | 865                          | 2       | 283090<br>212740 |
| 11     | <p><b>Discharge Consents</b></p> <p>Operator: Dwr Cymru Cyfyngedig<br/> Property Type: Sewerage Network - Sewers - Water Company<br/> Location: Swo.M'Hole 14 Abercrave St.Davids C, Abercrave St.Davids Church<br/> Authority: Natural Resources Wales<br/> Catchment Area: River Tawe<br/> Reference: BW0600801<br/> Permit Version: 1<br/> Effective Date: 20th October 1989<br/> Issued Date: 20th October 1989<br/> Revocation Date: 7th September 2010<br/> Discharge Type: Public Sewage: Storm Sewage Overflow<br/> Discharge: Freshwater Stream/River<br/> Environment:<br/> Receiving Water: River Tawe<br/> <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b><br/> Positional Accuracy: Located by supplier to within 100m</p>    | A19SW (NE)                             | 865                          | 2       | 283090<br>212740 |
| 12     | <p><b>Discharge Consents</b></p> <p>Operator: Mr S J Bowen<br/> Property Type: Undefined Or Other<br/> Location: Thornwood At Henuedd Abercrave<br/> Authority: Natural Resources Wales<br/> Catchment Area: River Tawe<br/> Reference: Bp0041001<br/> Permit Version: 1<br/> Effective Date: 18th March 1987<br/> Issued Date: 18th March 1987<br/> Revocation Date: 11th July 1994<br/> Discharge Type: Unspecified<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: To Land<br/> <b>Status: Consent expired</b><br/> Positional Accuracy: Located by supplier to within 10m</p>   | A17NE (NW)                             | 902                          | 2       | 281910<br>212870 |
| 13     | <p><b>Discharge Consents</b></p> <p>Operator: Celtic Energy Ltd<br/> Property Type: Coal Extraction, Surface<br/> Location: Outlet E Nant Helen Occs<br/> Authority: Natural Resources Wales<br/> Catchment Area: River Tawe<br/> Reference: BM0032105<br/> Permit Version: 4<br/> Effective Date: 13th March 1997<br/> Issued Date: 12th March 1997<br/> Revocation Date: 1st November 2002<br/> Discharge Type: Trade Effluent<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: Unnamed Trib Of River Tawe<br/> <b>Status: Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b><br/> Positional Accuracy: Located by supplier to within 100m</p>  | A12SW (W)                              | 911                          | 2       | 281560<br>211840 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 13     | <p><b>Discharge Consents</b></p> <p>Operator: Celtic Energy Ltd<br/> Property Type: Coal Extraction, Surface<br/> Location: Outlet E Nant Helen Occs<br/> Authority: Natural Resources Wales<br/> Catchment Area: River Tawe<br/> Reference: Bm0032105<br/> Permit Version: 3<br/> Effective Date: 14th September 1992<br/> Issued Date: 14th September 1992<br/> Revocation Date: 12th March 1997<br/> Discharge Type: Trade Effluent<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: Unnamed Trib Of River Tawe<br/> <b>Status: Authorisation revoked</b><br/> Positional Accuracy: Located by supplier to within 10m</p> | A12SW (W)                              | 911                          | 2       | 281560<br>211840 |
| 13     | <p><b>Discharge Consents</b></p> <p>Operator: Celtic Energy Ltd<br/> Property Type: Coal Extraction, Surface<br/> Location: Outlet E Nant Helen Occs<br/> Authority: Natural Resources Wales<br/> Catchment Area: River Tawe<br/> Reference: Bm0032105<br/> Permit Version: 2<br/> Effective Date: 11th July 1990<br/> Issued Date: 11th July 1990<br/> Revocation Date: 13th September 1992<br/> Discharge Type: Trade Effluent<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: Unnamed Trib Of River Tawe<br/> <b>Status: Authorisation revoked</b><br/> Positional Accuracy: Located by supplier to within 10m</p>       | A12SW (W)                              | 911                          | 2       | 281560<br>211840 |
| 13     | <p><b>Discharge Consents</b></p> <p>Operator: Celtic Energy Ltd<br/> Property Type: Coal Extraction, Surface<br/> Location: Outlet E Nant Helen Occs<br/> Authority: Natural Resources Wales<br/> Catchment Area: River Tawe<br/> Reference: Bm0032105<br/> Permit Version: 1<br/> Effective Date: 30th January 1985<br/> Issued Date: 30th January 1985<br/> Revocation Date: 10th July 1990<br/> Discharge Type: Unspecified<br/> Discharge: Not Supplied<br/> Environment:<br/> Receiving Water: Unnamed Trib Of River Tawe<br/> <b>Status: Authorisation revoked</b><br/> Positional Accuracy: Located by supplier to within 10m</p>         | A12SW (W)                              | 911                          | 2       | 281560<br>211840 |
| 14     | <p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Ward Brothers Mining Limited<br/> Location: Brawds Level Colliery, Onllwyn, NEATH, West Glamorgan, SA11<br/> Authority: Neath Port Talbot County Borough Council, Environmental Health Department<br/> Permit Reference: e3/1/37<br/> Dated: 29th April 1994<br/> Process Type: Local Authority Air Pollution Control<br/> Description: PG3/5 Coal, coke and coal product processes<br/> <b>Status: Authorisation has varied</b><br/> Positional Accuracy: Manually positioned within the geographical locality</p>   | A8SE (S)                               | 931                          | 3       | 282560<br>211185 |
|        | <p><b>Nearest Surface Water Feature</b></p>  | A13SE (E)                              | 7                            | -       | 282483<br>212120 |
| 15     | <p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Warehouses<br/> Location: Sleeper Bridge, ABERCRAF<br/> Authority: Environment Agency, Welsh Region<br/> Pollutant: Miscellaneous - Vehicle Washings And De Waxing<br/> Note: Accidental Spillage/Leakage<br/> Incident Date: 14th January 1991<br/> Incident Reference: 2231<br/> Catchment Area: Not Given<br/> Receiving Water: Not Given<br/> Cause of Incident: Leakage<br/> Incident Severity: Category 2 - Significant Incident<br/> Positional Accuracy: Located by supplier to within 100m</p>   | A18SE (N)                              | 369                          | 4       | 282500<br>212500 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 16     | <p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Sewerage<br/>           Location: Abercraf 200, Yards Down Stream Of Falls<br/>           Authority: Environment Agency, Welsh Region<br/>           Pollutant: Farm Effluent/Slurry<br/>           Note: Blocked Sewer<br/>           Incident Date: 30th December 1994<br/>           Incident Reference: 22165<br/>           Catchment Area: Not Given<br/>           Receiving Water: Not Given<br/>           Cause of Incident: Overflow<br/>           Incident Severity: Category 2 - Significant Incident<br/>           Positional Accuracy: Located by supplier to within 100m</p> | A18SW (N)                              | 467                          | 4       | 282400<br>212600 |
| 17     | <p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Sewerage<br/>           Location: Behind Main<br/>           Authority: Environment Agency, Welsh Region<br/>           Pollutant: Crude Sewage<br/>           Note: Weather<br/>           Incident Date: 31st October 1991<br/>           Incident Reference: 1619<br/>           Catchment Area: Not Given<br/>           Receiving Water: Not Given<br/>           Cause of Incident: Overflow<br/>           Incident Severity: Category 2 - Significant Incident<br/>           Positional Accuracy: Located by supplier to within 100m</p>  | A18SW (NW)                             | 612                          | 4       | 282200<br>212700 |
| 18     | <p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Miscellaneous Premises: Surface Runoff<br/>           Location: Rheolau Arms, ABERCRAF<br/>           Authority: Environment Agency, Welsh Region<br/>           Pollutant: Light Oil<br/>           Note: Weather<br/>           Incident Date: 25th January 1992<br/>           Incident Reference: 2766<br/>           Catchment Area: Not Given<br/>           Receiving Water: Not Given<br/>           Cause of Incident: Runoff<br/>           Incident Severity: Category 2 - Significant Incident<br/>           Positional Accuracy: Located by supplier to within 100m</p>                                | A17SW (NW)                             | 906                          | 4       | 281600<br>212495 |
| 18     | <p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given<br/>           Location: Opposite Longs Coaches, ABERCRAF<br/>           Authority: Environment Agency, Welsh Region<br/>           Pollutant: Unknown<br/>           Note: Not Supplied<br/>           Incident Date: 17th September 1991<br/>           Incident Reference: 1487<br/>           Catchment Area: Not Given<br/>           Receiving Water: Not Given<br/>           Cause of Incident: Unknown<br/>           Incident Severity: Category 3 - Minor Incident<br/>           Positional Accuracy: Located by supplier to within 100m</p>   | A17SW (NW)                             | 908                          | 4       | 281600<br>212500 |
|        | <p><b>River Quality</b></p> <p>Name: Tawe<br/>           GQA Grade: River Quality A<br/>           Reach: Abercraf B. - Conf. Nant Llech<br/>           Estimated Distance 1.8 (km):<br/>           Flow Rate: Flow less than 5 cumecs<br/>           Flow Type: River<br/>           Year: 2000</p>  | A18SW (NW)                             | 565                          | 4       | 282210<br>212654 |
|        | <p><b>River Quality</b></p> <p>Name: Tawe<br/>           GQA Grade: River Quality A<br/>           Reach: Conf.Giedd - Abercraf B.<br/>           Estimated Distance 4 (km):<br/>           Flow Rate: Flow less than 5 cumecs<br/>           Flow Type: River<br/>           Year: 2000</p>  | A17SW (NW)                             | 786                          | 4       | 281760<br>212543 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 19     | <p><b>River Quality Biology Sampling Points</b></p> <p>Name: Tawe<br/>           Reach: Confluence River Giedd To Abercraf River B.<br/>           Estimated Distance: 4.00<br/>           Positional Accuracy: Located by supplier to within 100m<br/>           Year: 1990<br/>           GQA Grade: River Quality Biology GQA Grade A - Very Good<br/>           Year: 1995<br/>           GQA Grade: River Quality Biology GQA Grade B - Good<br/>           Year: 2000<br/>           GQA Grade: River Quality Biology GQA Grade A - Very Good<br/>           Year: 2002<br/>           GQA Grade: River Quality Biology GQA Grade A - Very Good<br/>           Year: 2003<br/>           GQA Grade: River Quality Biology GQA Grade A - Very Good<br/>           Year: 2004<br/>           GQA Grade: River Quality Biology GQA Grade A - Very Good<br/>           Year: 2005<br/>           GQA Grade: River Quality Biology GQA Grade A - Very Good<br/>           Year: 2006<br/>           GQA Grade: River Quality Biology GQA Grade A - Very Good<br/>           Year: 2007<br/>           GQA Grade: River Quality Biology GQA Grade A - Very Good<br/>           Year: 2008<br/>           GQA Grade: River Quality Biology GQA Grade A - Very Good<br/>           Year: 2009<br/>           GQA Grade: River Quality Biology GQA Grade A - Very Good</p> | A17SW (NW)                             | 818                          | 4       | 281700<br>212500 |
| 20     | <p><b>Water Abstractions</b></p> <p>Operator: Tawe And Tributaries Angling Association Limited<br/>           Licence Number: 22/59/1/0126<br/>           Permit Version: 3<br/>           Location: River Tawe<br/>           Authority: Environment Agency, Welsh Region<br/>           Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow<br/>           Abstraction Type: Water may be abstracted from a single point<br/>           Source: Surface<br/>           Daily Rate (m3): Not Supplied<br/>           Yearly Rate (m3): Not Supplied<br/>           Details: On Land At Abercraive<br/>           Authorised Start: 01 January<br/>           Authorised End: 31 December<br/>           Permit Start Date: 17th November 2009<br/>           Permit End Date: Not Supplied<br/>           Positional Accuracy: Located by supplier to within 10m</p>  | A18SE (N)                              | 639                          | 4       | 282590<br>212760 |
| 20     | <p><b>Water Abstractions</b></p> <p>Operator: Tawe And Tributaries Angling Association<br/>           Licence Number: 22/59/1/0126<br/>           Permit Version: 2<br/>           Location: River Tawe<br/>           Authority: Environment Agency, Welsh Region<br/>           Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow<br/>           Abstraction Type: Water may be abstracted from a single point<br/>           Source: Surface<br/>           Daily Rate (m3): Not Supplied<br/>           Yearly Rate (m3): Not Supplied<br/>           Details: On Land At Abercraive<br/>           Authorised Start: 01 January<br/>           Authorised End: 31 December<br/>           Permit Start Date: 27th March 2008<br/>           Permit End Date: Not Supplied<br/>           Positional Accuracy: Located by supplier to within 10m</p>   | A18SE (N)                              | 639                          | 4       | 282590<br>212760 |
| 20     | <p><b>Water Abstractions</b></p> <p>Operator: Tawe And Tributaries Angling Association<br/>           Licence Number: 22/59/1/0126<br/>           Permit Version: 1<br/>           Location: River Tawe<br/>           Authority: Environment Agency, Welsh Region<br/>           Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow<br/>           Abstraction Type: Water may be abstracted from a single point<br/>           Source: Surface<br/>           Daily Rate (m3): Not Supplied<br/>           Yearly Rate (m3): Not Supplied<br/>           Details: On Land At Abercraive<br/>           Authorised Start: 01 January<br/>           Authorised End: 31 December<br/>           Permit Start Date: 17th May 2005<br/>           Permit End Date: Not Supplied<br/>           Positional Accuracy: Located by supplier to within 10m</p>   | A18SE (N)                              | 639                          | 4       | 282590<br>212760 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 21     | <p><b>Water Abstractions</b></p> <p>Operator: Tawe And Tributaries Angling Association<br/> Licence Number: 22/59/1/0103<br/> Permit Version: 100<br/> Location: Unamed Tributary Of River Tawe<br/> Authority: Environment Agency, Welsh Region<br/> Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow<br/> Abstraction Type: Water may be abstracted from a single point<br/> Source: Surface<br/> Daily Rate (m3): Not Supplied<br/> Yearly Rate (m3): Not Supplied<br/> Details: Unamed Tributary Of River Tawe<br/> Authorised Start: 01 January<br/> Authorised End: 31 December<br/> Permit Start Date: 7th June 1991<br/> Permit End Date: Not Supplied<br/> Positional Accuracy: Located by supplier to within 100m</p> | A18SE (N)                              | 673                          | 4       | 282690<br>212770 |
| 21     | <p><b>Water Abstractions</b></p> <p>Operator: Tawe And Tributaries Angling Association Limited<br/> Licence Number: 22/59/1/0126<br/> Permit Version: 3<br/> Location: Un Named Trib Of River Tawe<br/> Authority: Environment Agency, Welsh Region<br/> Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow<br/> Abstraction Type: Water may be abstracted from a single point<br/> Source: Surface<br/> Daily Rate (m3): Not Supplied<br/> Yearly Rate (m3): Not Supplied<br/> Details: On Land At Abercrave<br/> Authorised Start: 01 January<br/> Authorised End: 31 December<br/> Permit Start Date: 17th November 2009<br/> Permit End Date: Not Supplied<br/> Positional Accuracy: Located by supplier to within 10m</p>    | A18NE (N)                              | 693                          | 4       | 282660<br>212800 |
| 21     | <p><b>Water Abstractions</b></p> <p>Operator: Tawe And Tributaries Angling Association<br/> Licence Number: 22/59/1/0126<br/> Permit Version: 2<br/> Location: Un Named Trib Of River Tawe<br/> Authority: Environment Agency, Welsh Region<br/> Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow<br/> Abstraction Type: Water may be abstracted from a single point<br/> Source: Surface<br/> Daily Rate (m3): Not Supplied<br/> Yearly Rate (m3): Not Supplied<br/> Details: On Land At Abercrave<br/> Authorised Start: 01 January<br/> Authorised End: 31 December<br/> Permit Start Date: 27th March 2008<br/> Permit End Date: Not Supplied<br/> Positional Accuracy: Located by supplier to within 10m</p>               | A18NE (N)                              | 693                          | 4       | 282660<br>212800 |
| 22     | <p><b>Water Abstractions</b></p> <p>Operator: Tawe And Tributaries Angling Association Limited<br/> Licence Number: 22/59/1/0126<br/> Permit Version: 3<br/> Location: Craf Tributary<br/> Authority: Environment Agency, Welsh Region<br/> Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow<br/> Abstraction Type: Water may be abstracted from a single point<br/> Source: Surface<br/> Daily Rate (m3): Not Supplied<br/> Yearly Rate (m3): Not Supplied<br/> Details: On Land At Abercrave<br/> Authorised Start: 01 January<br/> Authorised End: 31 December<br/> Permit Start Date: 17th November 2009<br/> Permit End Date: Not Supplied<br/> Positional Accuracy: Located by supplier to within 10m</p>                 | A18NE (N)                              | 681                          | 4       | 282530<br>212810 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 22     | <p><b>Water Abstractions</b></p> <p>Operator: Tawe And Tributaries Angling Association<br/> Licence Number: 22/59/1/0126<br/> Permit Version: 2<br/> Location: Craf Tributary<br/> Authority: Environment Agency, Welsh Region<br/> Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow<br/> Abstraction Type: Water may be abstracted from a single point<br/> Source: Surface<br/> Daily Rate (m3): Not Supplied<br/> Yearly Rate (m3): Not Supplied<br/> Details: On Land At Abercrave<br/> Authorised Start: 01 January<br/> Authorised End: 31 December<br/> Permit Start Date: 27th March 2008<br/> Permit End Date: Not Supplied<br/> Positional Accuracy: Located by supplier to within 10m</p>           | A18NE (N)                              | 681                          | 4       | 282530<br>212810 |
| 22     | <p><b>Water Abstractions</b></p> <p>Operator: Tawe And Tributaries Angling Association<br/> Licence Number: 22/59/1/0126<br/> Permit Version: 1<br/> Location: Craf Tributary<br/> Authority: Environment Agency, Welsh Region<br/> Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow<br/> Abstraction Type: Water may be abstracted from a single point<br/> Source: Surface<br/> Daily Rate (m3): Not Supplied<br/> Yearly Rate (m3): Not Supplied<br/> Details: On Land At Abercave<br/> Authorised Start: 01 January<br/> Authorised End: 31 December<br/> Permit Start Date: 17th May 2005<br/> Permit End Date: Not Supplied<br/> Positional Accuracy: Located by supplier to within 10m</p>              | A18NE (N)                              | 721                          | 4       | 282530<br>212850 |
| 23     | <p><b>Water Abstractions</b></p> <p>Operator: Tawe And Tributaries Angling Association<br/> Licence Number: 22/59/1/0126<br/> Permit Version: 1<br/> Location: Un Named Trib Of River Tawe<br/> Authority: Environment Agency, Welsh Region<br/> Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow<br/> Abstraction Type: Water may be abstracted from a single point<br/> Source: Surface<br/> Daily Rate (m3): Not Supplied<br/> Yearly Rate (m3): Not Supplied<br/> Details: On Land At Abercave<br/> Authorised Start: 01 January<br/> Authorised End: 31 December<br/> Permit Start Date: 17th May 2005<br/> Permit End Date: Not Supplied<br/> Positional Accuracy: Located by supplier to within 10m</p> | A18NE (N)                              | 788                          | 4       | 282650<br>212900 |
|        | <p><b>Water Abstractions</b></p> <p>Operator: Mrs J Bull<br/> Licence Number: 22/59/1/0132<br/> Permit Version: 1<br/> Location: Unnamed Pond At Garw Leisiau, Abercraf<br/> Authority: Natural Resources Wales<br/> Abstraction: Production Of Energy: Hydroelectric Power Generation<br/> Abstraction Type: Water may be abstracted from a single point<br/> Source: Surface<br/> Daily Rate (m3): Not Supplied<br/> Yearly Rate (m3): Not Supplied<br/> Details: Garw Leisiau, Abercraf<br/> Authorised Start: 01 January<br/> Authorised End: 31 December<br/> Permit Start Date: 15th November 2007<br/> Permit End Date: Not Supplied<br/> Positional Accuracy: Located by supplier to within 10m</p>              | A23SE (N)                              | 1067                         | 2       | 282460<br>213200 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <p><b>Water Abstractions</b></p> <p>Operator: Jackie Bull<br/>Licence Number: 22/59/1/0132<br/>Permit Version: Not Supplied<br/>Location: Garwleisau Hep Scheme, 22/59/01/0132, Abercrave, Swansea, Powys, Sa9 1xt<br/>Authority: Natural Resources Wales<br/>Abstraction: Production Of Energy: Hydroelectric Power Generation<br/>Abstraction Type: Water may be abstracted from a single point<br/>Source: Surface<br/>Daily Rate (m3): Not Supplied<br/>Yearly Rate (m3): Not Supplied<br/>Details: Not Supplied<br/>Authorised Start: 01 January<br/>Authorised End: 31 December<br/>Permit Start Date: Not Supplied<br/>Permit End Date: Not Supplied<br/>Positional Accuracy: Located by supplier to within 10m</p> | A23SE (N)                              | 1067                         | 2       | 282460<br>213200 |
|        | <p><b>Water Abstractions</b></p> <p>Operator: Mr David Howell Williams<br/>Licence Number: 22/59/1/0131<br/>Permit Version: 1<br/>Location: Abercraf Farm<br/>Authority: Natural Resources Wales<br/>Abstraction: Production Of Energy: Hydroelectric Power Generation<br/>Abstraction Type: Water may be abstracted from a single point<br/>Source: Surface<br/>Daily Rate (m3): Not Supplied<br/>Yearly Rate (m3): Not Supplied<br/>Details: Abercraf Farm, Abercraf<br/>Authorised Start: 01 January<br/>Authorised End: 31 December<br/>Permit Start Date: 28th November 2007<br/>Permit End Date: Not Supplied<br/>Positional Accuracy: Located by supplier to within 10m</p>   | A23SE (N)                              | 1071                         | 2       | 282640<br>213190 |
|        | <p><b>Water Abstractions</b></p> <p>Operator: David Howell Williams<br/>Licence Number: Wa/059/0001/011<br/>Permit Version: Not Supplied<br/>Location: Not Supplied<br/>Authority: Natural Resources Wales<br/>Abstraction: Electricity: Hydro-electric Power Generation - Very Low<br/>Abstraction Type: Not Supplied<br/>Source: Surface<br/>Daily Rate (m3): Not Supplied<br/>Yearly Rate (m3): Not Supplied<br/>Details: Not Supplied<br/>Authorised Start: 01 January<br/>Authorised End: 31 December<br/>Permit Start Date: Not Supplied<br/>Permit End Date: Not Supplied<br/>Positional Accuracy: Located by supplier to within 10m</p>  | A23SE (N)                              | 1071                         | 2       | 282640<br>213190 |
|        | <p><b>Water Abstractions</b></p> <p>Operator: Mr D H Williams<br/>Licence Number: Wa/059/0001/010<br/>Permit Version: 1<br/>Location: Un-Named Tributary Of The Afon Tawe<br/>Authority: Natural Resources Wales<br/>Abstraction: Production Of Energy: Hydroelectric Power Generation<br/>Abstraction Type: Water may be abstracted from a single point<br/>Source: Surface<br/>Daily Rate (m3): Not Supplied<br/>Yearly Rate (m3): Not Supplied<br/>Details: Not Supplied<br/>Authorised Start: 01 April<br/>Authorised End: 31 March<br/>Permit Start Date: 7th March 2013<br/>Permit End Date: Not Supplied<br/>Positional Accuracy: Located by supplier to within 10m</p>   | A23SE (N)                              | 1099                         | 2       | 282622<br>213221 |



| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <p><b>Water Abstractions</b></p> <p>Operator: David Howell Williams<br/>Licence Number: Wa/059/0001/008<br/>Permit Version: Not Supplied<br/>Location: Abercraf Farm - Tgv 11-120, Ystradgynlais, Swansea, Swansea, Sa19 1tj<br/>Authority: Natural Resources Wales<br/>Abstraction: Production Of Energy: Hydroelectric Power Generation<br/>Abstraction Type: Water may be abstracted from a single point<br/>Source: Surface<br/>Daily Rate (m3): Not Supplied<br/>Yearly Rate (m3): Not Supplied<br/>Details: Not Supplied<br/>Authorised Start: 01 January<br/>Authorised End: 31 December<br/>Permit Start Date: Not Supplied<br/>Permit End Date: Not Supplied<br/>Positional Accuracy: Located by supplier to within 10m</p>   | A23SE (N)                              | 1099                         | 2       | 282622 213221 |
|        | <p><b>Water Abstractions</b></p> <p>Operator: David Howell Williams<br/>Licence Number: Wa/059/0001/010<br/>Permit Version: Not Supplied<br/>Location: Abercraf Farm - Tgv 11-120, Ystradgynlais, Swansea, Swansea, Sa19 1tj<br/>Authority: Natural Resources Wales<br/>Abstraction: Production Of Energy: Hydroelectric Power Generation<br/>Abstraction Type: Water may be abstracted from a single point<br/>Source: Surface<br/>Daily Rate (m3): Not Supplied<br/>Yearly Rate (m3): Not Supplied<br/>Details: Not Supplied<br/>Authorised Start: 01 January<br/>Authorised End: 31 December<br/>Permit Start Date: Not Supplied<br/>Permit End Date: Not Supplied<br/>Positional Accuracy: Located by supplier to within 10m</p>   | A23SE (N)                              | 1099                         | 2       | 282622 213221 |
|        | <p><b>Water Abstractions</b></p> <p>Operator: Call Of The Wild (Adventure Activities) Ltd.<br/>Licence Number: 22/59/1/0122<br/>Permit Version: 2<br/>Location: Spring, Unnamed Trib Of Afon Tawe At Maes-Y-Fron<br/>Authority: Environment Agency, Welsh Region<br/>Abstraction: Holiday Sites; Camp Sites And Tourist Attractions: Drinking; Cooking; Sanitary; Washing; (Small Garden)<br/>Abstraction Type: Water may be abstracted from a single point<br/>Source: Surface<br/>Daily Rate (m3): Not Supplied<br/>Yearly Rate (m3): Not Supplied<br/>Details: Maes-Y-Fron, Abercrave, Swansea<br/>Authorised Start: 01 March<br/>Authorised End: 30 September<br/>Permit Start Date: 1st April 2005<br/>Permit End Date: Not Supplied<br/>Positional Accuracy: Located by supplier to within 10m</p> | A22SE (NW)                             | 1397                         | 4       | 281820 213390 |
|        | <p><b>Water Abstractions</b></p> <p>Operator: Mr M Soanes<br/>Licence Number: 22/59/1/0122<br/>Permit Version: 1<br/>Location: Spring, Unnamed Trib Of Afon Tawe At Maes-Y-Fron<br/>Authority: Environment Agency, Welsh Region<br/>Abstraction: Holiday Sites; Camp Sites And Tourist Attractions: Drinking; Cooking; Sanitary; Washing; (Small Garden)<br/>Abstraction Type: Water may be abstracted from a single point<br/>Source: Surface<br/>Daily Rate (m3): Not Supplied<br/>Yearly Rate (m3): Not Supplied<br/>Details: Maes-Y-Fron, Abercrave, Swansea<br/>Authorised Start: 01 March<br/>Authorised End: 30 September<br/>Permit Start Date: 7th November 2003<br/>Permit End Date: Not Supplied<br/>Positional Accuracy: Located by supplier to within 10m</p>                               | A22SE (NW)                             | 1397                         | 4       | 281820 213390 |

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|        | <p><b>Water Abstractions</b></p> <p>Operator: Mr D.T Morgan<br/>Licence Number: 22/59/1/0105<br/>Permit Version: 100<br/>Location: Reservoir At Gwaunclawdd Farm, Caerlan<br/>Authority: Natural Resources Wales<br/>Abstraction: Extractive: Make-Up Or Top Up Water<br/>Abstraction Type: Water may be abstracted from a single point<br/>Source: Surface<br/>Daily Rate (m3): Not Supplied<br/>Yearly Rate (m3): Not Supplied<br/>Details: Reservoir At Gwaunclawdd Farm; Caerlan<br/>Authorised Start: 01 January<br/>Authorised End: 31 December<br/>Permit Start Date: 1st April 2007<br/>Permit End Date: Not Supplied<br/>Positional Accuracy: Located by supplier to within 10m</p> | A11NW (W)                              | 1400                         | 2       | 281030<br>212150 |
|        | <p><b>Water Abstractions</b></p> <p>Operator: D.T Morgan<br/>Licence Number: 22/59/1/0119<br/>Permit Version: Not Supplied<br/>Location: Not Supplied<br/>Authority: Natural Resources Wales<br/>Abstraction: Impounding<br/>Abstraction Type: Not Supplied<br/>Source: Groundwater<br/>Daily Rate (m3): Not Supplied<br/>Yearly Rate (m3): Not Supplied<br/>Details: Not Supplied<br/>Authorised Start: 01 January<br/>Authorised End: 31 December<br/>Permit Start Date: Not Supplied<br/>Permit End Date: Not Supplied<br/>Positional Accuracy: Located by supplier to within 10m</p>   | A11SW (W)                              | 1410                         | 2       | 281020<br>212100 |
|        | <p><b>Water Abstractions</b></p> <p>Operator: Mr W Millward<br/>Licence Number: 22/59/1/0032<br/>Permit Version: 100<br/>Location: Spring At Glynllech<br/>Authority: Environment Agency, Welsh Region<br/>Abstraction: General Farming And Domestic<br/>Abstraction Type: Water may be abstracted from a single point<br/>Source: Groundwater<br/>Daily Rate (m3): Not Supplied<br/>Yearly Rate (m3): Not Supplied<br/>Details: Spring At Glynllech<br/>Authorised Start: 01 January<br/>Authorised End: 31 December<br/>Permit Start Date: 28th December 1966<br/>Permit End Date: Not Supplied<br/>Positional Accuracy: Located by supplier to within 100m</p>                            | (E)                                    | 1943                         | 4       | 284400<br>212400 |
|        | <p><b>Groundwater Vulnerability Map</b></p> <p>Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability<br/>Combined Vulnerability: Medium<br/>Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer<br/>Pollutant Speed: Low<br/>Bedrock Flow: Well Connected Fractures<br/>Dilution: &gt;550 mm/year<br/>Baseflow Index: &lt;40%<br/>Superficial: &lt;90%<br/>Patchiness: Superficial 3-10m<br/>Thickness: Superficial No Data<br/>Recharge:</p>   | A13SW (SW)                             | 0                            | 2       | 282453<br>212122 |
|        | <p><b>Bedrock Aquifer Designations</b></p> <p>Aquifer Designation: Secondary Aquifer - A</p>   | A13SW (SW)                             | 0                            | 2       | 282453<br>212122 |
|        | <p><b>Superficial Aquifer Designations</b></p> <p>No Data Available</p>  |  |                              |         |                  |
|        | <p><b>Extreme Flooding from Rivers or Sea without Defences</b></p> <p>None</p>   |  |                              |         |                  |
|        | <p><b>Flooding from Rivers or Sea without Defences</b></p> <p>None</p>   |  |                              |         |                  |

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|        | <b>Areas Benefiting from Flood Defences</b><br>None   |  |                              |         |                  |
|        | <b>Flood Water Storage Areas</b><br>None  |  |                              |         |                  |
|        | <b>Flood Defences</b><br>None   |  |                              |         |                  |
| 24     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 158.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A13SE (E)                              | 7                            | 5       | 282483<br>212120 |
| 25     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 313.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A13SW (S)                              | 26                           | 5       | 282451<br>212086 |
| 26     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 360.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A13SW (S)                              | 40                           | 5       | 282433<br>212070 |
| 27     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 11.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13SW (S)                              | 42                           | 5       | 282433<br>212070 |
| 28     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 21.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13SW (S)                              | 51                           | 5       | 282437<br>212061 |
| 29     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 2.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A13SW (S)                              | 51                           | 5       | 282439<br>212061 |
| 30     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 107.0<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1       | A13SE (S)                              | 70                           | 5       | 282457<br>212042 |
| 31     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 255.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A13SE (SE)                             | 96                           | 5       | 282545<br>212046 |

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| 32     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 162.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A13NE (E)                              | 121                          | 5       | 282592<br>212163 |
| 33     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 9.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1         | A13NE (N)                              | 130                          | 5       | 282471<br>212261 |
| 34     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 15.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13NE (N)                              | 136                          | 5       | 282478<br>212268 |
| 35     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 16.1<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A13NE (NE)                             | 136                          | 5       | 282560<br>212238 |
| 36     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 86.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13NE (NE)                             | 140                          | 5       | 282529<br>212261 |
| 37     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 8.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A13NE (N)                              | 150                          | 5       | 282471<br>212281 |
| 38     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 1.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A13NE (N)                              | 150                          | 5       | 282474<br>212282 |
| 39     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 72.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13NE (N)                              | 151                          | 5       | 282473<br>212282 |
| 40     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 186.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1   | A13NE (NE)                             | 173                          | 5       | 282567<br>212279 |



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| 41     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 46.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1    | A13NE (NE)                             | 191                          | 5       | 282643<br>212223 |
| 42     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 42.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1    | A13NE (N)                              | 203                          | 5       | 282492<br>212334 |
| 43     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 11.4<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A13NE (N)                              | 220                          | 5       | 282461<br>212352 |
| 44     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 34.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13NE (E)                              | 220                          | 5       | 282686<br>212194 |
| 45     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 48.7<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1          | A13NE (E)                              | 221                          | 5       | 282684<br>212208 |
| 46     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 51.7<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1          | A13NE (N)                              | 232                          | 5       | 282462<br>212363 |
| 47     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 197.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A13NW (NW)                             | 260                          | 5       | 282228<br>212296 |
| 48     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 173.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1         | A13NE (E)                              | 261                          | 5       | 282729<br>212191 |
| 49     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 59.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13NE (E)                              | 261                          | 5       | 282729<br>212191 |

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| 50     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 47.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13NW (N)                              | 275                          | 5       | 282440<br>212409 |
| 51     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 266.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1   | A13NE (N)                              | 282                          | 5       | 282474<br>212413 |
| 52     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 271.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A13NW (W)                              | 286                          | 5       | 282152<br>212198 |
| 53     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 72.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13SE (E)                              | 290                          | 5       | 282766<br>212117 |
| 54     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 11.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13SE (E)                              | 291                          | 5       | 282763<br>212066 |
| 55     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 7.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1         | A13SE (E)                              | 291                          | 5       | 282765<br>212076 |
| 56     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 52.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13NE (E)                              | 293                          | 5       | 282768<br>212148 |
| 57     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 31.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A13SE (E)                              | 315                          | 5       | 282784<br>212045 |
| 58     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 169.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A13NW (NW)                             | 321                          | 5       | 282291<br>212422 |

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| 59     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 24.7<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A12NE (W)                              | 329                          | 5       | 282102<br>212141 |
| 60     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 64.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NW (E)                              | 341                          | 5       | 282818<br>212130 |
| 61     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 90.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NW (E)                              | 341                          | 5       | 282818<br>212130 |
| 62     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 19.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2  | A14SW (E)                              | 345                          | 5       | 282813<br>212041 |
| 63     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 255.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14SW (E)                              | 346                          | 5       | 282815<br>212040 |
| 64     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 81.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2  | A14SW (E)                              | 360                          | 5       | 282830<br>212047 |
| 65     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 139.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A12NE (NW)                             | 387                          | 5       | 282101<br>212336 |
| 66     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 34.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A14NW (E)                              | 428                          | 5       | 282902<br>212170 |
| 67     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 14.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1    | A14NW (E)                              | 428                          | 5       | 282902<br>212170 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 68     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 3.0<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1          | A14NW (E)                              | 429                          | 5       | 282904<br>212156 |
| 69     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 99.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1   | A14NW (E)                              | 429                          | 5       | 282904<br>212153 |
| 70     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 65.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14SW (E)                              | 435                          | 5       | 282879<br>211950 |
| 71     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 18.7<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1         | A14SW (E)                              | 440                          | 5       | 282912<br>212055 |
| 72     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 96.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14SW (E)                              | 441                          | 5       | 282910<br>212037 |
| 73     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 32.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1   | A14SW (E)                              | 441                          | 5       | 282910<br>212037 |
| 74     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 69.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A12NE (NW)                             | 441                          | 5       | 282036<br>212331 |
| 75     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 80.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1   | A14SW (E)                              | 451                          | 5       | 282914<br>212005 |
| 76     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 22.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14NW (E)                              | 458                          | 5       | 282929<br>212191 |



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| 77     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 7.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14SW (SE)                             | 465                          | 5       | 282889<br>211899 |
| 78     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 30.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1   | A14SW (SE)                             | 470                          | 5       | 282899<br>211907 |
| 79     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 82.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1   | A14SW (SE)                             | 471                          | 5       | 282896<br>211900 |
| 80     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 14.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14SW (SE)                             | 472                          | 5       | 282909<br>211927 |
| 81     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 80.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18SW (NW)                             | 474                          | 5       | 282166<br>212527 |
| 82     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 7.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NW (E)                              | 477                          | 5       | 282947<br>212205 |
| 83     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 47.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14NW (E)                              | 477                          | 5       | 282947<br>212205 |
| 84     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 7.1<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A14NW (E)                              | 485                          | 5       | 282954<br>212209 |
| 85     | <b>OS Water Network Lines</b><br>Watercourse Form: Lake<br>Watercourse Length: 7.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1          | A14SW (SE)                             | 486                          | 5       | 282923<br>211923 |

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| 86     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 189.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14NW (E)                              | 491                          | 5       | 282959<br>212214 |
| 87     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 17.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A14NW (E)                              | 504                          | 5       | 282978<br>212173 |
| 88     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 203.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A12NE (NW)                             | 506                          | 5       | 281968<br>212337 |
| 89     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 123.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14NW (E)                              | 508                          | 5       | 282983<br>212156 |
| 90     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 29.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1          | A18SW (N)                              | 527                          | 5       | 282445<br>212660 |
| 91     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 234.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14SW (SE)                             | 530                          | 5       | 282920<br>211822 |
| 92     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 103.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1   | A14SW (SE)                             | 530                          | 5       | 282920<br>211822 |
| 93     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 19.1<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A14SW (E)                              | 537                          | 5       | 283004<br>212014 |
| 94     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 120.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1   | A18SW (N)                              | 556                          | 5       | 282445<br>212690 |

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| 95     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 4.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A14SW (E)                              | 556                          | 5       | 283023<br>212010 |
| 96     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 53.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A18SW (NW)                             | 559                          | 5       | 282175<br>212631 |
| 97     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 177.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14SW (E)                              | 561                          | 5       | 283027<br>212009 |
| 98     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 51.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14SW (E)                              | 561                          | 5       | 283027<br>212009 |
| 99     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 122.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14SW (E)                              | 588                          | 5       | 283042<br>211954 |
| 100    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 368.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18SE (NE)                             | 591                          | 5       | 282741<br>212660 |
| 101    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 135.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1    | A18SE (NE)                             | 595                          | 5       | 282704<br>212681 |
| 102    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 151.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1    | A18SE (NE)                             | 601                          | 5       | 282735<br>212673 |
| 103    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 12.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A18SW (NW)                             | 605                          | 5       | 282147<br>212668 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 104    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 9.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1          | A9NW (SE)                              | 608                          | 5       | 282944<br>211723 |
| 105    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 43.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1    | A18SW (NW)                             | 609                          | 5       | 282124<br>212660 |
| 106    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 16.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2 | A17SE (NW)                             | 611                          | 5       | 282107<br>212651 |
| 107    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 598.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1   | A17SE (NW)                             | 611                          | 5       | 282107<br>212651 |
| 108    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 11.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1   | A9NW (SE)                              | 615                          | 5       | 282944<br>211713 |
| 109    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 52.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1    | A18SW (NW)                             | 617                          | 5       | 282139<br>212678 |
| 110    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 89.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1    | A18SE (N)                              | 620                          | 5       | 282617<br>212736 |
| 111    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 73.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18SE (N)                              | 620                          | 5       | 282617<br>212736 |
| 112    | <b>OS Water Network Lines</b><br>Watercourse Form: Lake<br>Watercourse Length: 7.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1            | A9NW (SE)                              | 623                          | 5       | 282945<br>211702 |

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| 113    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 64.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2  | A17SE (NW)                             | 624                          | 5       | 282092<br>212658 |
| 114    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 202.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1    | A18SW (N)                              | 625                          | 5       | 282283<br>212741 |
| 115    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 55.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Nant Helen<br>Catchment Name: Tawe<br>Primacy: 1    | A9NW (SE)                              | 630                          | 5       | 282949<br>211696 |
| 116    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 114.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18SW (NW)                             | 632                          | 5       | 282175<br>212712 |
| 117    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 266.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A12NE (W)                              | 642                          | 5       | 281791<br>212184 |
| 118    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 67.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A18SW (N)                              | 656                          | 5       | 282360<br>212786 |
| 119    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 55.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1     | A18SW (N)                              | 656                          | 5       | 282360<br>212786 |
| 120    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 16.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1     | A18SE (N)                              | 662                          | 5       | 282546<br>212790 |
| 121    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 172.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18SE (N)                              | 662                          | 5       | 282546<br>212790 |



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| 122    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 38.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14SE (E)                              | 668                          | 5       | 283143<br>212077 |
| 123    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 116.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1       | A18NW (N)                              | 669                          | 5       | 282416<br>212803 |
| 124    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 118.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1    | A18NE (N)                              | 669                          | 5       | 282532<br>212799 |
| 125    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 4.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1      | A18NW (N)                              | 669                          | 5       | 282412<br>212802 |
| 126    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 23.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A18NE (N)                              | 670                          | 5       | 282532<br>212799 |
| 127    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 45.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14SE (E)                              | 670                          | 5       | 283146<br>212085 |
| 128    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 76.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A17SE (NW)                             | 671                          | 5       | 282104<br>212719 |
| 129    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 258.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14NE (E)                              | 678                          | 5       | 283154<br>212129 |
| 130    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 86.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NE (E)                              | 678                          | 5       | 283147<br>212226 |

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| 131    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 71.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NE (E)                              | 678                          | 5       | 283147<br>212226 |
| 132    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 1.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A14NE (E)                              | 678                          | 5       | 283154<br>212129 |
| 133    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 21.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A14NE (E)                              | 678                          | 5       | 283155<br>212131 |
| 134    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 9.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A17SE (NW)                             | 679                          | 5       | 282033<br>212684 |
| 135    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 581.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A17SE (NW)                             | 679                          | 5       | 282033<br>212684 |
| 136    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 191.5<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1      | A17SE (NW)                             | 685                          | 5       | 282036<br>212693 |
| 137    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 6.3<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1         | A18NE (N)                              | 692                          | 5       | 282540<br>212820 |
| 138    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 243.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A12NE (NW)                             | 697                          | 5       | 281789<br>212406 |
| 139    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 4.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A18NE (N)                              | 698                          | 5       | 282540<br>212827 |

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|--------|---|--|------------------------------|---------|------------------|
| 140    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 23.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A18NE (N)                              | 702                          | 5       | 282538<br>212831 |
| 141    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 30.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A18NW (N)                              | 709                          | 5       | 282312<br>212833 |
| 142    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 334.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A19SW (NE)                             | 713                          | 5       | 283067<br>212529 |
| 143    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 25.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A19SW (NE)                             | 714                          | 5       | 282859<br>212734 |
| 144    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 25.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1     | A19SW (NE)                             | 714                          | 5       | 282859<br>212734 |
| 145    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 333.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14SE (E)                              | 714                          | 5       | 283178<br>211981 |
| 146    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 349.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1    | A19SW (NE)                             | 715                          | 5       | 282886<br>212717 |
| 147    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 87.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A19SW (NE)                             | 716                          | 5       | 282881<br>212721 |
| 148    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 23.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A18NE (N)                              | 724                          | 5       | 282531<br>212853 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 149    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 26.2<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A18NE (N)                              | 728                          | 5       | 282677<br>212831 |
| 150    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 24.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2  | A19SW (NE)                             | 735                          | 5       | 283063<br>212574 |
| 151    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 20.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A19SW (NE)                             | 735                          | 5       | 283063<br>212574 |
| 152    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 45.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A19SW (NE)                             | 738                          | 5       | 282865<br>212758 |
| 153    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 73.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A18NW (N)                              | 740                          | 5       | 282308<br>212863 |
| 154    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 425.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A12NW (W)                              | 741                          | 5       | 281707<br>212289 |
| 155    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 5.7<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1         | A18NE (N)                              | 742                          | 5       | 282518<br>212872 |
| 156    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 17.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NE (E)                              | 745                          | 5       | 283210<br>212255 |
| 157    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 2.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A18NE (N)                              | 747                          | 5       | 282516<br>212877 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 158    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 35.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NE (E)                              | 747                          | 5       | 283213<br>212246 |
| 159    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 54.9<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2       | A18NE (N)                              | 749                          | 5       | 282515<br>212879 |
| 160    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 258.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18NE (N)                              | 749                          | 5       | 282515<br>212879 |
| 161    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 5.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A18NE (N)                              | 754                          | 5       | 282686<br>212855 |
| 162    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 13.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A18NE (N)                              | 759                          | 5       | 282687<br>212861 |
| 163    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 117.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2 | A18NE (N)                              | 773                          | 5       | 282692<br>212873 |
| 164    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 45.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A18NE (N)                              | 773                          | 5       | 282692<br>212873 |
| 165    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 3.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A19SW (NE)                             | 773                          | 5       | 282958<br>212735 |
| 166    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 179.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A19SW (NE)                             | 775                          | 5       | 282962<br>212735 |



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| 167    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 90.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NE (E)                              | 781                          | 5       | 283248<br>212243 |
| 168    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 65.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NE (E)                              | 781                          | 5       | 283248<br>212243 |
| 169    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 120.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18NE (N)                              | 782                          | 5       | 282740<br>212868 |
| 170    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 63.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A18NE (N)                              | 783                          | 5       | 282737<br>212869 |
| 171    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 82.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A19NW (NE)                             | 783                          | 5       | 282885<br>212800 |
| 172    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 121.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18NW (N)                              | 785                          | 5       | 282430<br>212918 |
| 173    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 74.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A18NW (N)                              | 790                          | 5       | 282196<br>212888 |
| 174    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 134.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2 | A18NE (N)                              | 802                          | 5       | 282505<br>212933 |
| 175    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 22.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A18NW (N)                              | 812                          | 5       | 282306<br>212936 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 176    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 124.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18NW (N)                              | 834                          | 5       | 282306<br>212958 |
| 177    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 121.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18NE (NE)                             | 839                          | 5       | 282785<br>212911 |
| 178    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 21.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A19NW (NE)                             | 840                          | 5       | 282829<br>212894 |
| 179    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 161.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A19NW (NE)                             | 840                          | 5       | 282829<br>212894 |
| 180    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 6.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A14NE (E)                              | 845                          | 5       | 283313<br>212244 |
| 181    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 10.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NE (E)                              | 845                          | 5       | 283313<br>212244 |
| 182    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 42.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A19NW (NE)                             | 848                          | 5       | 282850<br>212892 |
| 183    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 13.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A19NW (NE)                             | 848                          | 5       | 282850<br>212892 |
| 184    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 128.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A19NW (NE)                             | 860                          | 5       | 282903<br>212878 |

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| 185    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 232.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2 | A19NW (NE)                             | 860                          | 5       | 282903<br>212878 |
| 186    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 60.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A12NW (W)                              | 862                          | 5       | 281578<br>212254 |
| 187    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 5.0<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1         | A12NW (W)                              | 863                          | 5       | 281578<br>212264 |
| 188    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 42.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A12NW (W)                              | 864                          | 5       | 281619<br>212428 |
| 189    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 9.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A12NW (W)                              | 865                          | 5       | 281577<br>212269 |
| 190    | <b>OS Water Network Lines</b><br>Watercourse Form: Lake<br>Watercourse Length: 5.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1           | A14NE (E)                              | 868                          | 5       | 283337<br>212240 |
| 191    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 67.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A12NW (W)                              | 873                          | 5       | 281606<br>212418 |
| 192    | <b>OS Water Network Lines</b><br>Watercourse Form: Lake<br>Watercourse Length: 19.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1          | A14NE (E)                              | 874                          | 5       | 283343<br>212240 |
| 193    | <b>OS Water Network Lines</b><br>Watercourse Form: Lake<br>Watercourse Length: 9.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1           | A14NE (E)                              | 874                          | 5       | 283343<br>212240 |

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| 194    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 72.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NE (E)                              | 878                          | 5       | 283346<br>212249 |
| 195    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 44.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A14NE (E)                              | 883                          | 5       | 283354<br>212225 |
| 196    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 8.4<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2         | A18NE (N)                              | 884                          | 5       | 282705<br>212985 |
| 197    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 25.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2  | A18NE (N)                              | 892                          | 5       | 282707<br>212993 |
| 198    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 127.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18NW (N)                              | 897                          | 5       | 282439<br>213031 |
| 199    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 90.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A12SW (W)                              | 901                          | 5       | 281536<br>212000 |
| 200    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 216.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A12SW (W)                              | 901                          | 5       | 281536<br>211995 |
| 201    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 37.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A12NW (W)                              | 912                          | 5       | 281577<br>212453 |
| 202    | <b>OS Water Network Lines</b><br>Watercourse Form: Lake<br>Watercourse Length: 72.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1          | A14NE (E)                              | 913                          | 5       | 283385<br>212210 |

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| 203    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 248.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18NE (N)                              | 916                          | 5       | 282705<br>213018 |
| 204    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 5.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2   | A18NE (N)                              | 916                          | 5       | 282705<br>213018 |
| 205    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 138.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A14NE (E)                              | 916                          | 5       | 283342<br>212430 |
| 206    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 4.4<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2         | A18NE (N)                              | 920                          | 5       | 282709<br>213022 |
| 207    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 56.0<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1       | A12SW (W)                              | 922                          | 5       | 281508<br>212080 |
| 208    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 289.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 2 | A18NE (N)                              | 923                          | 5       | 282713<br>213023 |
| 209    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 122.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1    | A17SW (W)                              | 930                          | 5       | 281571<br>212488 |
| 210    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 92.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A19SE (NE)                             | 932                          | 5       | 283213<br>212702 |
| 211    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 212.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Afon Tawe<br>Catchment Name: Tawe<br>Primacy: 1    | A19SE (NE)                             | 932                          | 5       | 283213<br>212702 |



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|--------|---|--|------------------------------|---------|------------------|
| 212    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 3.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1         | A18NW (N)                              | 950                          | 5       | 282286<br>213073 |
| 213    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 366.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A18NW (N)                              | 954                          | 5       | 282286<br>213077 |
| 214    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 162.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A12SW (W)                              | 963                          | 5       | 281466<br>212118 |
| 215    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 66.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Neath<br>Primacy: 1 | A9NE (SE)                              | 967                          | 5       | 283301<br>211608 |
| 216    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 24.1<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A19SE (NE)                             | 969                          | 5       | 283188<br>212788 |
| 217    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 36.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A19NE (NE)                             | 976                          | 5       | 283178<br>212810 |
| 218    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 170.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A17SW (NW)                             | 980                          | 5       | 281675<br>212758 |
| 219    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 94.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1        | A17NE (NW)                             | 983                          | 5       | 281817<br>212901 |
| 220    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 26.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A17NW (NW)                             | 984                          | 5       | 281776<br>212867 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 221    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 52.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A17NE (NW)                             | 984                          | 5       | 281849<br>212927 |
| 222    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 11.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1  | A19NE (NE)                             | 993                          | 5       | 283159<br>212852 |
| 223    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 6.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1   | A19NE (NE)                             | 994                          | 5       | 283168<br>212846 |
| 224    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 89.7<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1       | A19NE (NE)                             | 998                          | 5       | 283167<br>212851 |
| 225    | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 131.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Tawe<br>Primacy: 1 | A19NE (NE)                             | 998                          | 5       | 283196<br>212822 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
|        | <b>Local Authority Landfill Coverage</b><br>Name: Powys County Council<br>- Has supplied landfill data                                   |  | 0                            | 6       | 282453<br>212122 |
| 226    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: SW<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A13SW (SW)                             | 0                            | -       | 282453<br>212122 |
| 227    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: W<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A13SW (W)                              | 95                           | -       | 282336<br>212095 |
| 228    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: N<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A13NW (N)                              | 207                          | -       | 282424<br>212340 |
| 229    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: N<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A13NW (N)                              | 237                          | -       | 282422<br>212371 |
| 230    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: SE<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A13SE (SE)                             | 289                          | -       | 282589<br>211846 |
| 231    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: N<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A13NW (N)                              | 294                          | -       | 282434<br>212427 |
| 232    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: S<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A13SE (S)                              | 297                          | -       | 282461<br>211815 |
| 233    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: S<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A8NW (S)                               | 358                          | -       | 282346<br>211763 |
| 234    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: E<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A14SW (E)                              | 423                          | -       | 282882<br>211994 |
| 235    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: SW<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A8NW (SW)                              | 514                          | -       | 282220<br>211642 |
| 236    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: W<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A12SE (W)                              | 521                          | -       | 281916<br>212022 |
| 237    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: SW<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A8NW (SW)                              | 523                          | -       | 282143<br>211675 |
| 238    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: SW<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A7NE (SW)                              | 544                          | -       | 281997<br>211781 |
| 239    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: SE<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A8NE (SE)                              | 570                          | -       | 282733<br>211603 |
| 240    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: S<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A8NE (S)                               | 571                          | -       | 282465<br>211538 |
| 241    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: SW<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A7NE (SW)                              | 653                          | -       | 281884<br>211753 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 242    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: SE<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A14SW (SE)                             | 695                          | -       | 283118<br>211845 |
| 243    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: E<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A14SE (E)                              | 696                          | -       | 283166<br>212020 |
| 244    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: W<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A12SW (W)                              | 756                          | -       | 281674<br>212086 |
| 245    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: SE<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A9NE (SE)                              | 816                          | -       | 283190<br>211717 |
| 246    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: SE<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A14SE (SE)                             | 822                          | -       | 283233<br>211793 |
| 247    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: E<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A14SE (E)                              | 871                          | -       | 283345<br>212046 |
| 248    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: W<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A12NW (W)                              | 958                          | -       | 281528<br>212453 |
| 249    | <b>Potentially Infilled Land (Non-Water)</b><br>Bearing Ref: E<br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988  | A9NE (E)                               | 998                          | -       | 283399<br>211734 |
| 250    | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1953   | A13NE (NE)                             | 132                          | -       | 282544<br>212244 |
| 251    | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1953   | A18SW (N)                              | 435                          | -       | 282446<br>212568 |
| 252    | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1891   | A18SW (N)                              | 672                          | -       | 282296<br>212792 |
| 253    | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1953   | A18NW (N)                              | 730                          | -       | 282321<br>212856 |
| 254    | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1953   | A18NW (N)                              | 770                          | -       | 282434<br>212903 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---|--|------------------------------|---------|---------------|
|        | <b>BGS 1:625,000 Solid Geology</b><br>Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)   | A13SW (SW)                             | 0                            | 1       | 282453 212122 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 25 - 35 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg  | A13SW (SW)                             | 0                            | 1       | 282453 212122 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg  | A13SW (S)                              | 13                           | 1       | 282451 212097 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 35 - 45 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg  | A13NE (NE)                             | 128                          | 1       | 282570 212218 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 35 - 45 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg  | A13NW (NW)                             | 210                          | 1       | 282294 212293 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 60 - 120 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A14NW (NE)                             | 436                          | 1       | 282797 212426 |
|        | <b>BGS Estimated Soil Chemistry</b><br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Sediment<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 30 - 45 mg/kg  | A12NE (W)                              | 436                          | 1       | 281994 212138 |



| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 45 - 60 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>  | A18SW (N)                              | 492                          | 1       | 282433<br>212626 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 35 - 45 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>  | A18SE (NE)                             | 575                          | 1       | 282739<br>212642 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>  | A17SE (NW)                             | 578                          | 1       | 282074<br>212588 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>  | A12NE (W)                              | 580                          | 1       | 281851<br>212152 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 60 - 120 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p> | A18SW (N)                              | 631                          | 1       | 282309<br>212753 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 45 - 60 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>  | A19SW (NE)                             | 641                          | 1       | 282843<br>212657 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--|--|------------------------------|---------|---------------|
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 45 - 60 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>    | A18SE (N)                              | 651                          | 1       | 282694 212745 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 45 - 60 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>    | A14NE (E)                              | 706                          | 1       | 283177 212207 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>    | A8SE (S)                               | 710                          | 1       | 282523 211404 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>    | A8SW (S)                               | 841                          | 1       | 282418 211271 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 60 - 120 mg/kg</p> <p>Concentration:</p> <p>Cadmium 2.2 - 3.0 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p> | A18NW (N)                              | 866                          | 1       | 282453 213000 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 45 - 60 mg/kg</p> <p>Concentration:</p> <p>Cadmium 2.2 - 3.0 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>  | A18NE (N)                              | 867                          | 1       | 282460 213000 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|---|--|------------------------------|---------|---------------|
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 45 - 60 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>   | A17NE (NW)                             | 874                          | 1       | 282106 212945 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>   | A7NW (SW)                              | 955                          | 1       | 281663 211543 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>   | A9SW (S)                               | 986                          | 1       | 282830 211192 |
|        | <p><b>BGS Estimated Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 60 - 120 mg/kg</p> <p>Concentration:</p> <p>Cadmium &lt;1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: &lt;100 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>  | A18NE (N)                              | 990                          | 1       | 282514 213121 |
| 255    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cae-Hopkin</p> <p>Location: Abercraf, Swansea, West Glamorgan</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Reference: 125030</p> <p>Type: Underground</p> <p><b>Status: Ceased</b></p> <p>Operator: Unknown Operator</p> <p>Operator Location: Not Supplied</p> <p>Periodic Type: Carboniferous</p> <p>Geology: South Wales Lower Coal Measures Formation</p> <p>Commodity: Coal - Deep</p> <p>Positional Accuracy: Located by supplier to within 10m</p>          | A13NW (NW)                             | 61                           | 1       | 282412 212192 |
| 256    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery</p> <p>Location: Abercraf, Swansea, West Glamorgan</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Reference: 125035</p> <p>Type: Underground</p> <p><b>Status: Ceased</b></p> <p>Operator: Unknown Operator</p> <p>Operator Location: Not Supplied</p> <p>Periodic Type: Carboniferous</p> <p>Geology: South Wales Middle Coal Measures Formation</p> <p>Commodity: Coal - Deep</p> <p>Positional Accuracy: Located by supplier to within 10m</p> | A13SE (S)                              | 116                          | 1       | 282501 211999 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--|--|------------------------------|---------|---------------|
| 257    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Abercrave Middle Main<br/>           Location: Caehopkin, Neath, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 188580<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Individual'S Name Withheld<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A13SE (SE)                             | 154                          | 1       | 282592 212011 |
| 258    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Abercrave Black Drift<br/>           Location: Caehopkin, Neath, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 188581<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Individual'S Name Withheld<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A13SE (SE)                             | 200                          | 1       | 282550 211927 |
| 258    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125037<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>    | A13SE (S)                              | 235                          | 1       | 282533 211884 |
| 259    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cae-Hopkin<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125031<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>                  | A13NW (N)                              | 214                          | 1       | 282414 212347 |
| 259    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cae-Hopkin<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125032<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>                  | A13NW (N)                              | 244                          | 1       | 282417 212377 |
| 260    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125029<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>    | A13SW (SW)                             | 217                          | 1       | 282330 211919 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 261    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125027<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A13SW (SW)                             | 283                          | 1       | 282193<br>211956 |
| 262    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Ty-Mawr<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125033<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>                  | A13NW (N)                              | 307                          | 1       | 282425<br>212440 |
| 263    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125023<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A12SE (W)                              | 339                          | 1       | 282106<br>212011 |
| 264    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125036<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>      | A8NE (S)                               | 347                          | 1       | 282519<br>211768 |
| 265    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125041<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>      | A8NE (S)                               | 480                          | 1       | 282639<br>211661 |
| 266    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125028<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A8NW (SW)                              | 515                          | 1       | 282203<br>211649 |



| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--|--|------------------------------|---------|---------------|
| 267    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Cral Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125022<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A7NE (SW)                              | 529                          | 1       | 282017 211780 |
| 268    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Llwyn-Llafrad<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125021<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A12SE (W)                              | 549                          | 1       | 281885 212046 |
| 269    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Cral Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125038<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A8NE (S)                               | 587                          | 1       | 282549 211530 |
| 270    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Cral Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125034<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A8NE (S)                               | 596                          | 1       | 282470 211516 |
| 271    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn-Yr-Erw<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125042<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>        | A8NE (SE)                              | 610                          | 1       | 282736 211561 |
| 272    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Cral Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125026<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A8NW (SW)                              | 677                          | 1       | 282168 211488 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 273    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Llwyn-Llafrad<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125020<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A7NE (SW)                              | 710                          | 1       | 281874<br>211669 |
| 273    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Llwyn-Llafrad<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125019<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A7NE (SW)                              | 753                          | 1       | 281836<br>211649 |
| 274    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Nant Helen Occs<br/>           Location: Coelbren, Ystradgynlais, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 3779<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Celtic Energy Ltd.<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Opencast<br/>           Positional Accuracy: Unknown</p>                           | A8SE (S)                               | 723                          | 1       | 282600<br>211400 |
| 275    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn-Byrle<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125045<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>     | A9NE (SE)                              | 776                          | 1       | 283155<br>211737 |
| 276    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn-Yr-Erw<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125044<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>        | A9NW (SE)                              | 778                          | 1       | 282906<br>211464 |
| 277    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Llwyn-Llafrad<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125017<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>      | A12SW (W)                              | 795                          | 1       | 281635<br>212083 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 278    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn-Yr-Erw<br/>           Location: Coelbren, Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125047<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>            | A14SE (E)                              | 797                          | 1       | 283242<br>211893 |
| 279    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn-Byrle<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125046<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>                  | A9NE (SE)                              | 817                          | 1       | 283211<br>211755 |
| 280    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Nant Helen Extension Surface Coal Mine<br/>           Location: Ystradgynlais, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 7424<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Celtic Energy Ltd.<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Opencast<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A8SE (S)                               | 872                          | 1       | 282465<br>211240 |
| 281    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Llwyn-Turnor<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125016<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>                | A12NW (W)                              | 897                          | 1       | 281589<br>212442 |
| 282    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Nant Helen Occs<br/>           Location: Ystradgynlais, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 23033<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Celtic Energy Ltd.<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Opencast<br/>           Positional Accuracy: Located by supplier to within 10m</p>                       | A7NW (SW)                              | 903                          | 1       | 281765<br>211500 |
| 283    | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn Byrle Occs<br/>           Location: Cefn Byrle, Coelbren, Abercraf, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 6168<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Coal - Opencast<br/>           Positional Accuracy: Located by supplier to within 10m</p>          | A14SE (E)                              | 931                          | 1       | 283365<br>211835 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 284    | <b>BGS Recorded Mineral Sites</b><br>Site Name: Glynlech Colliery<br>Location: Abercraf, Swansea, West Glamorgan<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 125049<br>Type: Underground<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Carboniferous<br>Geology: South Wales Lower Coal Measures Formation<br>Commodity: Coal - Deep<br>Positional Accuracy: Located by supplier to within 10m | A9NE (E)                               | 981                          | 1       | 283385<br>211743 |
|        | <b>BGS Measured Urban Soil Chemistry</b><br>No data available  |  |                              |         |                  |
|        | <b>BGS Urban Soil Chemistry Averages</b><br>No data available  |  |                              |         |                  |
|        | <b>Coal Mining Affected Areas</b><br>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 (SW)                             | 0                            | 7       | 282453<br>212122 |
|        | <b>Mining Instability</b><br>Mining Evidence: Inconclusive Coal Mining<br>Source: Ove Arup & Partners<br>Boundary Quality: As Supplied   | A13SW (SW)                             | 0                            | -       | 282453<br>212122 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Highly Unlikely<br>Source: British Geological Survey, National Geoscience Information Service   | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |
|        | <b>Potential for Collapsible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service  | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13SE (SE)                             | 226                          | 1       | 282629<br>211946 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service   | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13NW (N)                              | 14                           | 1       | 282450<br>212149 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A13NE (NE)                             | 81                           | 1       | 282520<br>212199 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A13SW (S)                              | 96                           | 1       | 282450<br>212016 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A13NE (N)                              | 129                          | 1       | 282481<br>212261 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A13NE (NE)                             | 208                          | 1       | 282622<br>212279 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A13NE (E)                              | 221                          | 1       | 282685<br>212204 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service  | A13SE (SE)                             | 226                          | 1       | 282629<br>211946 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--|--|------------------------------|---------|---------------|
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service  | A13NE (NE)                             | 230                          | 1       | 282602 212324 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service  | A13SW (SW)                             | 0                            | 1       | 282453 212122 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13NE (NE)                             | 128                          | 1       | 282570 212218 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13NW (NW)                             | 210                          | 1       | 282294 212293 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13SE (SE)                             | 226                          | 1       | 282629 211946 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13SW (SW)                             | 0                            | 1       | 282453 212122 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level).<br>Source: British Geological Survey, National Geoscience Information Service | A13SW (SW)                             | 0                            | 1       | 282453 212122 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service                        | A13SW (SW)                             | 0                            | 1       | 282453 212122 |



| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 285    | <p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Rotafix Ltd<br/>           Location: Rotafix House, Hennoyadd Road, Abercrave, Swansea, SA9 1UR<br/>           Classification: Adhesives, Glues &amp; Sealants<br/>           Status: <b>Active</b><br/>           Positional Accuracy: Automatically positioned to the address</p> | A17SW (NW)                             | 996                          | -       | 281580<br>212651 |
| 286    | <p><b>Points of Interest - Manufacturing and Production</b></p> <p>Name: Tank<br/>           Location: SA9<br/>           Category: Industrial Features<br/>           Class Code: Tanks (Generic)<br/>           Positional Accuracy: Positioned to an adjacent address or location</p>  | A13SW (W)                              | 22                           | 8       | 282408<br>212116 |
| 287    | <p><b>Points of Interest - Manufacturing and Production</b></p> <p>Name: Adit<br/>           Location: SA9<br/>           Category: Extractive Industries<br/>           Class Code: Unspecified Quarries Or Mines<br/>           Positional Accuracy: Positioned to an adjacent address or location</p>  | A14SW (E)                              | 540                          | 8       | 282975<br>211907 |
| 288    | <p><b>Points of Interest - Manufacturing and Production</b></p> <p>Name: Nant-Helen Opencast Coal Mine<br/>           Location: SA9<br/>           Category: Extractive Industries<br/>           Class Code: Unspecified Quarries Or Mines<br/>           Positional Accuracy: Positioned to address or location</p>                           | A8SE (S)                               | 684                          | 8       | 282540<br>211432 |
| 289    | <p><b>Points of Interest - Manufacturing and Production</b></p> <p>Name: Opencast Mine Workings<br/>           Location: SA9<br/>           Category: Extractive Industries<br/>           Class Code: Unspecified Quarries Or Mines<br/>           Positional Accuracy: Positioned to an adjacent address or location</p>                      | A7NE (SW)                              | 808                          | 8       | 281919<br>211486 |
| 289    | <p><b>Points of Interest - Manufacturing and Production</b></p> <p>Name: Nant-Helen Opencast Coal Mine<br/>           Location: SA9<br/>           Category: Extractive Industries<br/>           Class Code: Coal Mining<br/>           Positional Accuracy: Positioned to an adjacent address or location</p>                                 | A7SE (SW)                              | 821                          | 8       | 281957<br>211441 |
| 290    | <p><b>Points of Interest - Manufacturing and Production</b></p> <p>Name: Tank<br/>           Location: SA9<br/>           Category: Industrial Features<br/>           Class Code: Tanks (Generic)<br/>           Positional Accuracy: Positioned to an adjacent address or location</p>  | A18NE (N)                              | 813                          | 8       | 282484<br>212945 |
| 291    | <p><b>Points of Interest - Manufacturing and Production</b></p> <p>Name: Adit<br/>           Location: SA9<br/>           Category: Extractive Industries<br/>           Class Code: Unspecified Quarries Or Mines<br/>           Positional Accuracy: Positioned to an adjacent address or location</p>  | A9NE (SE)                              | 884                          | 8       | 283271<br>211727 |
| 292    | <p><b>Points of Interest - Manufacturing and Production</b></p> <p>Name: Adit<br/>           Location: SA9<br/>           Category: Extractive Industries<br/>           Class Code: Unspecified Quarries Or Mines<br/>           Positional Accuracy: Positioned to an adjacent address or location</p>  | A14SE (E)                              | 964                          | 8       | 283430<br>211975 |
| 293    | <p><b>Points of Interest - Public Infrastructure</b></p> <p>Name: Slag Heap (Disused)<br/>           Location: SA9<br/>           Category: Infrastructure and Facilities<br/>           Class Code: Refuse Disposal Facilities<br/>           Positional Accuracy: Positioned to an adjacent address or location</p>                           | A12NE (W)                              | 396                          | 8       | 282048<br>212236 |
| 293    | <p><b>Points of Interest - Public Infrastructure</b></p> <p>Name: Heap (Dis)<br/>           Location: SA9<br/>           Category: Infrastructure and Facilities<br/>           Class Code: Refuse Disposal Facilities<br/>           Positional Accuracy: Positioned to an adjacent address or location</p>                                    | A12NE (W)                              | 481                          | 8       | 281979<br>212297 |
| 294    | <p><b>Points of Interest - Public Infrastructure</b></p> <p>Name: Weir<br/>           Location: SA9<br/>           Category: Water<br/>           Class Code: Weirs, Sluices and Dams<br/>           Positional Accuracy: Positioned to an adjacent address or location</p>   | A17SE (NW)                             | 587                          | 8       | 282109<br>212624 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 294    | <b>Points of Interest - Public Infrastructure</b><br>Name: Weir<br>Location: SA9<br>Category: Water<br>Class Code: Weirs, Sluices and Dams<br>Positional Accuracy: Positioned to an adjacent address or location  | A17SE (NW)                             | 598                          | 8       | 282101<br>212632 |
| 294    | <b>Points of Interest - Public Infrastructure</b><br>Name: Sluice<br>Location: SA9<br>Category: Water<br>Class Code: Weirs, Sluices and Dams<br>Positional Accuracy: Positioned to an adjacent address or location  | A17SE (NW)                             | 621                          | 8       | 282095<br>212656 |
| 294    | <b>Points of Interest - Public Infrastructure</b><br>Name: Sluice<br>Location: SA9<br>Category: Water<br>Class Code: Weirs, Sluices and Dams<br>Positional Accuracy: Positioned to an adjacent address or location  | A17SE (NW)                             | 634                          | 8       | 282084<br>212664 |
| 295    | <b>Points of Interest - Public Infrastructure</b><br>Name: Slag Heap (Disused)<br>Location: SA9<br>Category: Infrastructure and Facilities<br>Class Code: Refuse Disposal Facilities<br>Positional Accuracy: Positioned to an adjacent address or location            | A12NE (W)                              | 587                          | 8       | 281872<br>212314 |
| 296    | <b>Points of Interest - Public Infrastructure</b><br>Name: Cemetery<br>Location: SA9<br>Category: Infrastructure and Facilities<br>Class Code: Cemeteries and Crematoria<br>Positional Accuracy: Positioned to an adjacent address or location                        | A18NW (N)                              | 760                          | 8       | 282156<br>212842 |
| 297    | <b>Points of Interest - Public Infrastructure</b><br>Name: Abercrave Fire Station<br>Location: Maesyfron, Abercrave, SA9 1XD<br>Category: Central and Local Government<br>Class Code: Fire Brigade Stations<br>Positional Accuracy: Positioned to address or location | A17SW (NW)                             | 937                          | 8       | 281707<br>212728 |
| 298    | <b>Points of Interest - Recreational and Environmental</b><br>Name: Playground<br>Location: Davies Street, SA9<br>Category: Recreational<br>Class Code: Playgrounds<br>Positional Accuracy: Positioned to address or location   | A13NW (NW)                             | 175                          | 8       | 282367<br>212296 |
| 298    | <b>Points of Interest - Recreational and Environmental</b><br>Name: Play Area<br>Location: SA9<br>Category: Recreational<br>Class Code: Playgrounds<br>Positional Accuracy: Positioned to an adjacent address or location   | A13NW (NW)                             | 222                          | 8       | 282340<br>212336 |
| 299    | <b>Points of Interest - Recreational and Environmental</b><br>Name: Playground<br>Location: Nr (Heol Tawe), SA9<br>Category: Recreational<br>Class Code: Playgrounds<br>Positional Accuracy: Positioned to an adjacent address or location                            | A17SE (NW)                             | 650                          | 8       | 282088<br>212686 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 300    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17089<br>Area(m <sup>2</sup> ): 7686.12<br>Type: Ancient and Semi-Natural Woodland  | A13SE (E)                              | 9                            | 2       | 282485<br>212123 |
| 301    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17086<br>Area(m <sup>2</sup> ): 11799.73<br>Type: Ancient and Semi-Natural Woodland | A13NE (E)                              | 249                          | 2       | 282723<br>212158 |
| 302    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17111<br>Area(m <sup>2</sup> ): 86976.94<br>Type: Ancient and Semi-Natural Woodland | A13NE (N)                              | 272                          | 2       | 282482<br>212404 |
| 303    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17101<br>Area(m <sup>2</sup> ): 3863.27<br>Type: Ancient and Semi-Natural Woodland  | A13NW (NW)                             | 312                          | 2       | 282309<br>212420 |
| 304    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 41694<br>Area(m <sup>2</sup> ): 18353.93<br>Type: Plantation on Ancient Woodland    | A12NE (W)                              | 449                          | 2       | 281981<br>212133 |
| 305    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17100<br>Area(m <sup>2</sup> ): 21689.2<br>Type: Ancient and Semi-Natural Woodland  | A14NW (NE)                             | 558                          | 2       | 282973<br>212385 |
| 306    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17103<br>Area(m <sup>2</sup> ): 43579.84<br>Type: Ancient and Semi-Natural Woodland | A12NE (NW)                             | 579                          | 2       | 281898<br>212359 |
| 307    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17093<br>Area(m <sup>2</sup> ): 6798.93<br>Type: Ancient and Semi-Natural Woodland  | A12NE (W)                              | 607                          | 2       | 281826<br>212187 |
| 308    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17106<br>Area(m <sup>2</sup> ): 5965.66<br>Type: Ancient and Semi-Natural Woodland  | A17SE (NW)                             | 622                          | 2       | 282063<br>212635 |
| 309    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 41693<br>Area(m <sup>2</sup> ): 13583.44<br>Type: Plantation on Ancient Woodland    | A12SE (W)                              | 624                          | 2       | 281812<br>212021 |
| 310    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 9560<br>Area(m <sup>2</sup> ): 11194.51<br>Type: Ancient and Semi-Natural Woodland  | A12NE (W)                              | 682                          | 2       | 281788<br>212361 |
| 311    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17085<br>Area(m <sup>2</sup> ): 5504.73<br>Type: Ancient and Semi-Natural Woodland  | A14SE (E)                              | 728                          | 2       | 283205<br>212104 |
| 312    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 41695<br>Area(m <sup>2</sup> ): 578.03<br>Type: Plantation on Ancient Woodland      | A19SW (NE)                             | 759                          | 2       | 282872<br>212779 |
| 313    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17123<br>Area(m <sup>2</sup> ): 64101.2<br>Type: Ancient and Semi-Natural Woodland  | A18NW (N)                              | 770                          | 2       | 282417<br>212903 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 314    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17110<br>Area(m <sup>2</sup> ): 7042.41<br>Type: Ancient and Semi-Natural Woodland   | A19SW (NE)                             | 771                          | 2       | 283027<br>212672 |
| 315    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17109<br>Area(m <sup>2</sup> ): 2373.24<br>Type: Ancient and Semi-Natural Woodland   | A19NW (NE)                             | 782                          | 2       | 282877<br>212803 |
| 316    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 12895<br>Area(m <sup>2</sup> ): 3959.28<br>Type: Ancient and Semi-Natural Woodland   | A9NE (SE)                              | 811                          | 2       | 283213<br>211774 |
| 317    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 43291<br>Area(m <sup>2</sup> ): 11772.24<br>Type: Plantation on Ancient Woodland   | A12SW (W)                              | 817                          | 2       | 281617<br>212036 |
| 318    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 42857<br>Area(m <sup>2</sup> ): 30302.2<br>Type: Plantation on Ancient Woodland  | A12SW (W)                              | 831                          | 2       | 281631<br>211883 |
| 319    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 10857<br>Area(m <sup>2</sup> ): 85907.92<br>Type: Restored Ancient Woodland Site   | A18NE (N)                              | 874                          | 2       | 282667<br>212985 |
| 320    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17113<br>Area(m <sup>2</sup> ): 13973.07<br>Type: Ancient and Semi-Natural Woodland  | A17NE (NW)                             | 914                          | 2       | 281942<br>212906 |
| 321    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17096<br>Area(m <sup>2</sup> ): 9112.08<br>Type: Ancient and Semi-Natural Woodland   | A12NW (W)                              | 927                          | 2       | 281504<br>212157 |
| 322    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 43108<br>Area(m <sup>2</sup> ): 9994.06<br>Type: Plantation on Ancient Woodland  | A12SW (W)                              | 966                          | 2       | 281471<br>211989 |
| 323    | <b>Ancient Woodland</b><br>Name: Not Supplied<br>Reference: 17104<br>Area(m <sup>2</sup> ): 3022.95<br>Type: Ancient and Semi-Natural Woodland   | A19SE (NE)                             | 999                          | 2       | 283357<br>212604 |
| 324    | <b>National Parks</b><br>Name: Brecon Beacons<br>Multiple Area: N<br>Area (m <sup>2</sup> ): 1349543930.88<br>Source: Natural Resources Wales<br>Status: <b>Fully Designated - designated as a National Park</b><br>Designation Date: 31st December 1955 | A13NE (NE)                             | 364                          | 2       | 282641<br>212456 |

| Agency & Hydrological   | Version   | Update Cycle  |
|---|---|---|
| <b>Contaminated Land Register Entries and Notices</b><br>Natural Resources Wales<br>Neath Port Talbot County Borough Council - Environmental Health Department<br>Powys County Council - Public Protection Department<br>Carmarthenshire County Council - Environmental Health Department | June 2020<br>October 2017<br>October 2017<br>September 2017 | Annually<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Discharge Consents</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales   | August 2014<br>January 2022                                 | Quarterly<br>Quarterly  |
| <b>Enforcement and Prohibition Notices</b><br>Environment Agency - Welsh Region   | March 2013  |   |
| <b>Integrated Pollution Controls</b><br>Environment Agency - Welsh Region   | January 2009  |   |
| <b>Integrated Pollution Prevention And Control</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales  | January 2021<br>January 2022                                | Quarterly<br>Quarterly  |
| <b>Local Authority Integrated Pollution Prevention And Control</b><br>Neath Port Talbot County Borough Council - Environmental Health Department<br>Carmarthenshire County Council - Environmental Health Department<br>Powys County Council - Public Protection Department               | March 2014<br>March 2015<br>May 2014                        | Variable<br>Variable<br>Variable  |
| <b>Local Authority Pollution Prevention and Controls</b><br>Neath Port Talbot County Borough Council - Environmental Health Department<br>Carmarthenshire County Council - Environmental Health Department<br>Powys County Council - Public Protection Department                         | March 2014<br>March 2015<br>May 2014                        | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update             |
| <b>Local Authority Pollution Prevention and Control Enforcements</b><br>Carmarthenshire County Council - Environmental Health Department<br>Neath Port Talbot County Borough Council - Environmental Health Department<br>Powys County Council - Public Protection Department             | March 2015<br>March 2015<br>May 2014                        | Variable<br>Variable<br>Variable  |
| <b>Nearest Surface Water Feature</b><br>Ordnance Survey   | January 2022  |   |
| <b>Pollution Incidents to Controlled Waters</b><br>Environment Agency - Welsh Region  | December 1998   |   |
| <b>Prosecutions Relating to Authorised Processes</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales  | July 2015<br>July 2015                                      |   |
| <b>Prosecutions Relating to Controlled Waters</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales   | March 2013<br>March 2013                                    |   |
| <b>Registered Radioactive Substances</b><br>Natural Resources Wales<br>Environment Agency - Welsh Region  | January 2015<br>June 2016                                   | As notified   |
| <b>River Quality</b><br>Environment Agency - Head Office  | November 2001   | Not Applicable  |
| <b>River Quality Biology Sampling Points</b><br>Environment Agency - Head Office  | April 2012  |   |
| <b>Substantiated Pollution Incident Register</b><br>Environment Agency Wales - South East Area<br>Environment Agency Wales - South West Area<br>Natural Resources Wales   | January 2021<br>January 2021<br>January 2022                | Quarterly<br>Quarterly<br>Quarterly   |
| <b>Water Abstractions</b><br>Environment Agency - Welsh Region<br>Natural Resources Wales   | January 2022<br>January 2022                                | Quarterly<br>Quarterly  |



| Agency & Hydrological   | Version                      | Update Cycle          |
|---|------------------------------|-----------------------|
| <b>Water Industry Act Referrals</b><br>Natural Resources Wales<br>Environment Agency - Welsh Region                   | January 2022<br>October 2017 | Quarterly             |
| <b>Groundwater Vulnerability Map</b><br>Natural Resources Wales   | June 2018                    | As notified           |
| <b>Bedrock Aquifer Designations</b><br>Natural Resources Wales  | January 2018                 | Annually              |
| <b>Superficial Aquifer Designations</b><br>Natural Resources Wales  | January 2018                 | Annually              |
| <b>Source Protection Zones</b><br>Natural Resources Wales   | July 2017                    | Annual Rolling Update |
| <b>Extreme Flooding from Rivers or Sea without Defences</b><br>Natural Resources Wales                                | September 2020               |                       |
| <b>Flooding from Rivers or Sea without Defences</b><br>Natural Resources Wales  | September 2020               |                       |
| <b>Areas Benefiting from Flood Defences</b><br>Natural Resources Wales  | November 2019                | Quarterly             |
| <b>Flood Water Storage Areas</b><br>Natural Resources Wales   | August 2019                  | Quarterly             |
| <b>Flood Defences</b><br>Natural Resources Wales  | November 2019                | Quarterly             |
| <b>OS Water Network Lines</b><br>Ordnance Survey  | January 2022                 | Quarterly             |
| <b>Surface Water 1 in 30 year Flood Extent</b><br>Natural Resources Wales   | May 2018                     | Annually              |
| <b>Surface Water 1 in 100 year Flood Extent</b><br>Natural Resources Wales  | May 2018                     | Annually              |
| <b>Surface Water 1 in 1000 year Flood Extent</b><br>Natural Resources Wales   | May 2018                     | Annually              |
| <b>Surface Water Suitability</b><br>Natural Resources Wales   | February 2016                | Annually              |
| <b>BGS Groundwater Flooding Susceptibility</b><br>British Geological Survey - National Geoscience Information Service | May 2013                     | As notified           |

| Waste  | Version   | Update Cycle                                       |
|--|---|--|
| <b>BGS Recorded Landfill Sites</b><br>British Geological Survey - National Geoscience Information Service  | November 2002                                   | As notified  |
| <b>Historical Landfill Sites</b><br>Natural Resources Wales  | July 2019                                       | Quarterly  |
| <b>Integrated Pollution Control Registered Waste Sites</b><br>Environment Agency - Welsh Region  | January 2009                                    | Not Applicable                                     |
| <b>Licensed Waste Management Facilities (Landfill Boundaries)</b><br>Environment Agency Wales - South East Area<br>Environment Agency Wales - South West Area<br>Natural Resources Wales | October 2021<br>October 2021<br>October 2021    | Quarterly<br>Quarterly<br>Quarterly                |
| <b>Licensed Waste Management Facilities (Locations)</b><br>Natural Resources Wales<br>Environment Agency Wales - South East Area<br>Environment Agency Wales - South West Area           | April 2021<br>July 2021<br>July 2021            | Quarterly<br>Quarterly<br>Quarterly                |
| <b>Local Authority Landfill Coverage</b><br>Carmarthenshire County Council<br>Neath Port Talbot County Borough Council - Environmental Health Department<br>Powys County Council         | February 2003<br>February 2003<br>February 2003 | Not Applicable<br>Not Applicable<br>Not Applicable |
| <b>Local Authority Recorded Landfill Sites</b><br>Carmarthenshire County Council<br>Neath Port Talbot County Borough Council - Environmental Health Department<br>Powys County Council   | October 2018<br>October 2018<br>October 2018    |  |
| <b>Potentially Infilled Land (Non-Water)</b><br>Landmark Information Group Limited   | December 1999                                   | Not Applicable                                     |
| <b>Potentially Infilled Land (Water)</b><br>Landmark Information Group Limited   | December 1999                                   |  |
| <b>Registered Landfill Sites</b><br>Environment Agency Wales - South East Area<br>Environment Agency Wales - South West Area   | March 2006<br>March 2006                        | Not Applicable<br>Not Applicable                   |
| <b>Registered Waste Transfer Sites</b><br>Environment Agency Wales - South East Area<br>Environment Agency Wales - South West Area   | April 2018<br>April 2018                        |  |
| <b>Registered Waste Treatment or Disposal Sites</b><br>Environment Agency Wales - South East Area<br>Environment Agency Wales - South West Area  | June 2015<br>June 2015                          |  |

| Hazardous Substances   | Version   | Update Cycle  |
|--|---|---|
| <b>Control of Major Accident Hazards Sites (COMAH)</b><br>Health and Safety Executive  | January 2022  | Bi-Annually   |
| <b>Explosive Sites</b><br>Health and Safety Executive  | March 2017  | Annually  |
| <b>Notification of Installations Handling Hazardous Substances (NIHHS)</b><br>Health and Safety Executive  | August 2001   |   |
| <b>Planning Hazardous Substance Enforcements</b><br>Brecon Beacons National Park<br>Carmarthenshire County Council - Area Planning Office (East Area)<br>Carmarthenshire County Council - Area Planning Office (South Area)<br>Carmarthenshire County Council - Environment Department (West Area)<br>Powys County Council - Planning Department<br>Neath Port Talbot County Borough Council - Planning Department | August 2008<br>February 2016<br>February 2016<br>February 2016<br>February 2016<br>October 2015 | Annual Rolling Update<br>Variable<br>Variable<br>Variable<br>Variable<br>Variable |
| <b>Planning Hazardous Substance Consents</b><br>Brecon Beacons National Park<br>Carmarthenshire County Council - Area Planning Office (East Area)<br>Carmarthenshire County Council - Area Planning Office (South Area)<br>Carmarthenshire County Council - Environment Department (West Area)<br>Powys County Council - Planning Department<br>Neath Port Talbot County Borough Council - Planning Department     | August 2008<br>February 2016<br>February 2016<br>February 2016<br>February 2016<br>October 2015 | Annual Rolling Update<br>Variable<br>Variable<br>Variable<br>Variable<br>Variable |

| Geological   | Version                      | Update Cycle          |
|--|------------------------------|-----------------------|
| <b>BGS 1:625,000 Solid Geology</b><br>British Geological Survey - National Geoscience Information Service  | January 2009                 | As notified           |
| <b>BGS Estimated Soil Chemistry</b><br>British Geological Survey - National Geoscience Information Service   | December 2015                | As notified           |
| <b>BGS Recorded Mineral Sites</b><br>British Geological Survey - National Geoscience Information Service   | November 2021                | Bi-Annually           |
| <b>CBSCB Compensation District</b><br>Cheshire Brine Subsidence Compensation Board (CBSCB)<br>Cheshire Brine Subsidence Compensation Board (CBSCB) | August 2011<br>November 2020 | As notified           |
| <b>Coal Mining Affected Areas</b><br>The Coal Authority - Property Searches  | March 2014                   | Annual Rolling Update |
| <b>Mining Instability</b><br>Ove Arup & Partners   | June 1998                    | Not Applicable        |
| <b>Non Coal Mining Areas of Great Britain</b><br>British Geological Survey - National Geoscience Information Service                               | May 2015                     | Not Applicable        |
| <b>Potential for Collapsible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                   | April 2020                   | As notified           |
| <b>Potential for Compressible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                  | January 2019                 | As notified           |
| <b>Potential for Ground Dissolution Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                   | January 2019                 | As notified           |
| <b>Potential for Landslide Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                     | January 2019                 | As notified           |
| <b>Potential for Running Sand Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                  | January 2019                 | As notified           |
| <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service    | January 2019                 | As notified           |
| <b>Radon Potential - Radon Affected Areas</b><br>British Geological Survey - National Geoscience Information Service                               | July 2011                    | Annually              |
| <b>Radon Potential - Radon Protection Measures</b><br>British Geological Survey - National Geoscience Information Service                          | July 2011                    | Annually              |

| <b>Industrial Land Use</b>   | <b>Version</b> | <b>Update Cycle</b> |
|--|----------------|---------------------|
| <b>Contemporary Trade Directory Entries</b><br>Thomson Directories   | January 2022   | Quarterly           |
| <b>Fuel Station Entries</b><br>Catalist Ltd - Experian               | March 2022     | Quarterly           |
| <b>Gas Pipelines</b><br>National Grid                                | October 2021   | Bi-Annually         |
| <b>Points of Interest - Commercial Services</b><br>PointX            | March 2022     | Quarterly           |
| <b>Points of Interest - Education and Health</b><br>PointX           | March 2022     | Quarterly           |
| <b>Points of Interest - Manufacturing and Production</b><br>PointX   | March 2022     | Quarterly           |
| <b>Points of Interest - Public Infrastructure</b><br>PointX          | March 2022     | Quarterly           |
| <b>Points of Interest - Recreational and Environmental</b><br>PointX | March 2022     | Quarterly           |
| <b>Underground Electrical Cables</b><br>National Grid                | May 2021       | Bi-Annually         |



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

A selection of organisations who provide data within this report

| Data Supplier                          | Data Supplier Logo  |
|--|---|
| Ordnance Survey                        |    |
| Environment Agency                     |    |
| Scottish Environment Protection Agency |    |
| The Coal Authority                     |    |
| British Geological Survey              |  <b>British Geological Survey</b><br>NATURAL ENVIRONMENT RESEARCH COUNCIL          |
| Centre for Ecology and Hydrology       |  <b>Centre for Ecology &amp; Hydrology</b><br>NATURAL ENVIRONMENT RESEARCH COUNCIL |
| Natural Resources Wales                |   |
| Scottish Natural Heritage              |    |
| Natural England                        |    |
| Public Health England                  |    |
| Ove Arup                               |    |
| Stantec UK Ltd                         |    |

| Contact | Name and Address  | Contact Details   |
|---------|---|---|
| 1       | <b>British Geological Survey - Enquiry Service</b><br>British Geological Survey, Environmental Science Centre, Keyworth,<br>Nottingham, Nottinghamshire, NG12 5GG | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: enquiries@bgs.ac.uk<br>Website: www.bgs.ac.uk                          |
| 2       | <b>Natural Resources Wales</b><br>Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP  | Telephone: 0300 065 3000<br>Email: enquiries@naturalresourceswales.gov.uk   |
| 3       | <b>Neath Port Talbot County Borough Council - Environmental Health Department</b><br>Room 322, Neath Civic Centre, Neath, West Glamorgan, SA11 3QZ                | Telephone: 01639 763333<br>Fax: 01693 763444<br>Website: www.neath-porttalbot.gov.uk  |
| 4       | <b>Environment Agency - National Customer Contact Centre (NCCC)</b><br>PO Box 544, Templeborough, Rotherham, S60 1BY  | Telephone: 03708 506 506<br>Email: enquiries@environment-agency.gov.uk  |
| 5       | <b>Ordnance Survey</b><br>Adanac Drive, Southampton, Hampshire, SO16 0AS  | Telephone: 03456 05 05 05<br>Email: customerservices@ordnancesurvey.co.uk<br>Website: www.ordnancesurvey.gov.uk                 |
| 6       | <b>Powys County Council</b><br>County Hall, Llandrindod Wells, Powys, LD1 5LG   | Telephone: 01597 826000<br>Fax: 01597 826230<br>Website: www.powys.gov.uk   |
| 7       | <b>The Coal Authority - Property Searches</b><br>200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG   | Telephone: 0345 762 6848<br>Fax: 01623 637 338<br>Email: groundstability@coal.gov.uk<br>Website: www2.groundstability.com       |
| 8       | <b>PointX</b><br>7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY   | Website: www.pointx.co.uk   |
| -       | <b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b><br>Chilton, Didcot, Oxfordshire, OX11 0RQ                   | Telephone: 01235 822622<br>Fax: 01235 833891<br>Email: radon@phe.gov.uk<br>Website: www.ukradon.org                             |
| -       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD  | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: customerservices@landmarkinfo.co.uk<br>Website: www.landmarkinfo.co.uk |

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

## Envirocheck<sup>®</sup> Report:

# Mining and Ground Stability Datasheet

### Order Details:

**Order Number:**

292667940\_2\_1

**Customer Reference:**

22075

**National Grid Reference:**

282450, 212120

**Slice:**

A

**Site Area (Ha):**

0.1

**Search Buffer (m):**

1000

### Site Details:

Greenhill, Station Road

Caehopkin

Abercrave

SWANSEA

SA9 1TP

### Client Details:

Mr D Jobson

Ground Consultants Ltd

Head Office

Wadebridge

Cornwall

PL27 6AU

| <b>Report Section and Details</b>   | <b>Page Number</b> |
|---|--------------------|
| <b>Summary</b>  | -                  |
| <p>The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected.</p> <p>For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).</p>  |                    |
| <b>Mining and Natural Cavities Data</b>   | <b>1</b>           |
| <p>The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities.</p> <p>Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.</p>   |                    |
| <b>Historical Land Use Information (1:2,500)</b>  | <b>9</b>           |
| <p>The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative.</p> <p>For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.</p> |                    |
| <b>Historical Land Use Information (1:10,000)</b>   | <b>12</b>          |
| <p>The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses.</p> <p>For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.</p>   |                    |
| <b>Ground Stability Data (1:50,000)</b>   | <b>15</b>          |
| <p>The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.</p>   |                    |
| <b>Historical Map List</b>  | <b>16</b>          |
| <p>The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.</p>  |                    |
| <b>Data Currency</b>  | <b>17</b>          |
| <b>Data Suppliers</b>   | <b>18</b>          |
| <b>Useful Contacts</b>  | <b>19</b>          |

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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

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| Data Type  | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m |
|--|-------------|---------|-----------|-------------|--------------|
| <b>Mining and Natural Cavities Data</b>                              |             |         |           |             |              |
| BGS Recorded Mineral Sites   | pg 1        |         | 8         | 5           | 20           |
| Coal Mining Affected Areas   | pg 6        | Yes     | n/a       | n/a         | n/a          |
| Man Made Mining Cavities   |             |         |           |             |              |
| Mining Instability   | pg 6        | Yes     | n/a       | n/a         | n/a          |
| Natural Cavities   |             |         |           |             |              |
| Non Coal Mining Areas of Great Britain                               | pg 6        | Yes     |           | n/a         | n/a          |
| Potential Mining Areas   | pg 6        |         |           | 6           | 8            |
| <b>Historical Land Use Information (1:2,500)</b>                     |             |         |           |             |              |
| Extractive Industries or Potential Excavations from 1855-1909 (100m) | pg 9        | 1       | 3         | n/a         | n/a          |
| Extractive Industries or Potential Excavations from 1893-1915 (100m) | pg 9        |         | 6         | n/a         | n/a          |
| Extractive Industries or Potential Excavations from 1906-1937 (100m) | pg 10       |         | 8         | n/a         | n/a          |
| Extractive Industries or Potential Excavations from 1924-1949 (100m) |             |         |           | n/a         | n/a          |
| Extractive Industries or Potential Excavations from 1950-1980 (100m) | pg 10       |         | 3         | n/a         | n/a          |
| Subterranean Features (100m)   |             |         |           | n/a         | n/a          |
| <b>Historical Land Use Information (1:10,000)</b>                    |             |         |           |             |              |
| Air Shafts   | pg 12       |         | 1         |             | 2            |
| Disturbed Ground   |             |         |           |             |              |
| General Quarrying  | pg 12       |         | 2         | 4           | 6            |
| Heap, unknown constituents   | pg 12       |         |           | 2           | 1            |
| Mineral Railway  | pg 12       |         | 1         |             | 3            |
| Mining & quarrying general   |             |         |           |             |              |
| Mining of coal & lignite   | pg 13       |         | 1         | 1           | 10           |
| Quarrying of sand & clay, operation of sand & gravel pits            |             |         |           |             |              |
| Former Marshes   |             |         |           |             |              |
| Potentially Infilled Land (Non-Water)                                | pg 13       | 1       | 3         | 5           | 15           |
| Potentially Infilled Land (Water)                                    | pg 14       |         | 1         | 1           | 3            |
| <b>Ground Stability Data (1:50,000)</b>                              |             |         |           |             |              |
| CBSCB Compensation District  |             |         | n/a       | n/a         | n/a          |
| Brine Pumping Related Features                                       |             |         |           |             |              |
| Brine Subsidence Solution Area                                       |             |         |           |             |              |
| Potential for Collapsible Ground Stability Hazards                   | pg 15       | Yes     |           | n/a         | n/a          |
| Potential for Compressible Ground Stability Hazards                  | pg 15       | Yes     | Yes       | n/a         | n/a          |
| Potential for Ground Dissolution Stability Hazards                   | pg 15       | Yes     |           | n/a         | n/a          |
| Potential for Landslide Ground Stability Hazards                     | pg 15       | Yes     | Yes       | n/a         | n/a          |
| Potential for Running Sand Ground Stability Hazards                  | pg 15       | Yes     | Yes       | n/a         | n/a          |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards    | pg 15       | Yes     |           | n/a         | n/a          |
| Salt Mining Related Features   |             |         |           |             |              |

Report Version v53.0

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 1      | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cae-Hopkin<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125030<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>            | A13NW (NW)                             | 61                           | 1       | 282412<br>212192 |
| 2      | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125035<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>   | A13SE (S)                              | 116                          | 1       | 282501<br>211999 |
| 3      | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Abercraf Middle Main<br/>           Location: Caehopkin, Neath, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 188580<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Individual'S Name Withheld<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A13SE (SE)                             | 154                          | 1       | 282592<br>212011 |
| 4      | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Abercraf Black Drift<br/>           Location: Caehopkin, Neath, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 188581<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Individual'S Name Withheld<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A13SE (SE)                             | 200                          | 1       | 282550<br>211927 |
| 4      | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125037<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>   | A13SE (S)                              | 235                          | 1       | 282533<br>211884 |
| 5      | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cae-Hopkin<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125031<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>                 | A13NW (N)                              | 214                          | 1       | 282414<br>212347 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 5      | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cae-Hopkin<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125032<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>               | A13NW (N)                              | 244                          | 1       | 282417<br>212377 |
| 6      | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125029<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A13SW (SW)                             | 217                          | 1       | 282330<br>211919 |
| 7      | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125027<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A13SW (SW)                             | 283                          | 1       | 282193<br>211956 |
| 8      | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Ty-Mawr<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125033<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>                  | A13NW (N)                              | 307                          | 1       | 282425<br>212440 |
| 9      | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125023<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A12SE (W)                              | 339                          | 1       | 282106<br>212011 |
| 10     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Craf Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125036<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>      | A8NE (S)                               | 347                          | 1       | 282519<br>211768 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 11     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Cral Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125041<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>      | A8NE (S)                               | 480                          | 1       | 282639<br>211661 |
| 12     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Cral Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125028<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A8NW (SW)                              | 515                          | 1       | 282203<br>211649 |
| 13     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Cral Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125022<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>      | A7NE (SW)                              | 529                          | 1       | 282017<br>211780 |
| 14     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Llwyn-Llafrad<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125021<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>      | A12SE (W)                              | 549                          | 1       | 281885<br>212046 |
| 15     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Cral Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125038<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>      | A8NE (S)                               | 587                          | 1       | 282549<br>211530 |
| 16     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Cral Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125034<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>      | A8NE (S)                               | 596                          | 1       | 282470<br>211516 |



| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 17     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn-Yr-Erw<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125042<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>        | A8NE (SE)                              | 610                          | 1       | 282736<br>211561 |
| 18     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Aber-Cral Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125026<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A8NW (SW)                              | 677                          | 1       | 282168<br>211488 |
| 19     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Llwyn-Llafrad<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125020<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A7NE (SW)                              | 710                          | 1       | 281874<br>211669 |
| 19     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Llwyn-Llafrad<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125019<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A7NE (SW)                              | 753                          | 1       | 281836<br>211649 |
| 20     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Nant Helen Occs<br/>           Location: Coelbren, Ystradgynlais, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 3779<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Celtic Energy Ltd.<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Opencast<br/>           Positional Accuracy: Unknown</p>                           | A8SE (S)                               | 723                          | 1       | 282600<br>211400 |
| 21     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn-Byrle<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125045<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>     | A9NE (SE)                              | 776                          | 1       | 283155<br>211737 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 22     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn-Yr-Erw<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125044<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>                     | A9NW (SE)                              | 778                          | 1       | 282906<br>211464 |
| 23     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Llwyn-Llafrad<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125017<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>                   | A12SW (W)                              | 795                          | 1       | 281635<br>212083 |
| 24     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn-Yr-Erw<br/>           Location: Coelbren, Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125047<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Sandstone<br/>           Positional Accuracy: Located by supplier to within 10m</p>            | A14SE (E)                              | 797                          | 1       | 283242<br>211893 |
| 25     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn-Byrle<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125046<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>                  | A9NE (SE)                              | 817                          | 1       | 283211<br>211755 |
| 26     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Nant Helen Extension Surface Coal Mine<br/>           Location: Ystradgynlais, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 7424<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Celtic Energy Ltd.<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Opencast<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A8SE (S)                               | 872                          | 1       | 282465<br>211240 |
| 27     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Llwyn-Turnor<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125016<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p>                | A12NW (W)                              | 897                          | 1       | 281589<br>212442 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 28     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Nant Helen Occs<br/>           Location: Ystradgynlais, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 23033<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Celtic Energy Ltd.<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Middle Coal Measures Formation<br/>           Commodity: Coal - Opencast<br/>           Positional Accuracy: Located by supplier to within 10m</p>              | A7NW (SW)                              | 903                          | 1       | 281765<br>211500 |
| 29     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cefn Byrle Occs<br/>           Location: Cefn Byrle, Coelbren, Abercraf, Powys<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 6168<br/>           Type: Opencast<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Coal - Opencast<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A14SE (E)                              | 931                          | 1       | 283365<br>211835 |
| 30     | <p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Glynllech Colliery<br/>           Location: Abercraf, Swansea, West Glamorgan<br/>           Source: British Geological Survey, National Geoscience Information Service<br/>           Reference: 125049<br/>           Type: Underground<br/> <b>Status: Ceased</b><br/>           Operator: Unknown Operator<br/>           Operator Location: Not Supplied<br/>           Periodic Type: Carboniferous<br/>           Geology: South Wales Lower Coal Measures Formation<br/>           Commodity: Coal - Deep<br/>           Positional Accuracy: Located by supplier to within 10m</p> | A9NE (E)                               | 981                          | 1       | 283385<br>211743 |
|        | <p><b>Coal Mining Affected Areas</b></p> <p>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.</p>  | A13SW (SW)                             | 0                            | 2       | 282453<br>212122 |
|        | <p><b>Mining Instability</b></p> <p>Mining Evidence: Inconclusive Coal Mining<br/>           Source: Ove Arup &amp; Partners<br/>           Boundary Quality: As Supplied</p>  | A13SW (SW)                             | 0                            | 3       | 282453<br>212122 |
|        | <p><b>Non Coal Mining Areas of Great Britain</b></p> <p>Risk: Highly Unlikely<br/>           Source: British Geological Survey, National Geoscience Information Service</p>  | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |
| 31     | <p><b>Potential Mining Areas</b></p> <p>Name: Duffryn<br/>           Ceased Operation: 1916<br/>           Commodity: Coal; Bluers; Rhyd<br/>           Reference: 6638<br/>           Alternate: Glynllech<br/>           Name/Mine:<br/>           Custodian: Not Supplied</p>   | A13SE (E)                              | 310                          | 4       | 282786<br>212115 |
| 32     | <p><b>Potential Mining Areas</b></p> <p>Name: Cwmtawe<br/>           Ceased Operation: 1933<br/>           Commodity: Coal; Bluers; Rhyd; Grey; Middle; Gnappog<br/>           Reference: 11122<br/>           Alternate: Duffryn<br/>           Name/Mine:<br/>           Alternate: Glynllech<br/>           Name/Mine:<br/>           Alternate: New<br/>           Name/Mine:<br/>           Alternate: Tyn-y-pant<br/>           Name/Mine:<br/>           Custodian: Not Supplied</p>  | A13SE (E)                              | 310                          | 4       | 282786<br>212115 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 33     | <b>Potential Mining Areas</b><br>Name: Abercrave<br>Ceased Operation: 1872<br>Commodity: Ironstone; Penny Pieces<br>Reference: Not Supplied<br>Alternate: Not Supplied<br>Name/Mine:<br>Custodian: Ed. Daniel and Co., Worcester Chambers, Swansea. | A13SE (SE)                             | 426                          | 4       | 282780<br>211814 |
| 34     | <b>Potential Mining Areas</b><br>Name: Tyn-y-Pant<br>Ceased Operation: 1904<br>Commodity: Coal; Brass<br>Reference: 4700<br>Alternate: Not Supplied<br>Name/Mine:<br>Custodian: Not Supplied  | A13SE (SE)                             | 426                          | 4       | 282780<br>211814 |
| 35     | <b>Potential Mining Areas</b><br>Name: Gwaunclawdd<br>Ceased Operation: 1927<br>Commodity: Coal; Blewers; Big or Nine Feet; Four Feet; Brass<br>Reference: 9035<br>Alternate: Not Supplied<br>Name/Mine:<br>Custodian: Not Supplied                 | A12NE (W)                              | 448                          | 4       | 281982<br>212132 |
| 36     | <b>Potential Mining Areas</b><br>Name: Rhos Goch (Bluers New)<br>Ceased Operation: 1918<br>Commodity: Coal; Bluers<br>Reference: 8282<br>Alternate: Not Supplied<br>Name/Mine:<br>Custodian: Not Supplied   | A12NE (W)                              | 458                          | 4       | 281984<br>212233 |
| 37     | <b>Potential Mining Areas</b><br>Name: Gwaunclawdd<br>Ceased Operation: 1872<br>Commodity: Coal; Four Feet<br>Reference: Not Supplied<br>Alternate: Not Supplied<br>Name/Mine:<br>Custodian: T.H.E. Morgan, Mineral Offices, Resolven, Neath.       | A12SE (SW)                             | 534                          | 4       | 281975<br>211831 |
| 38     | <b>Potential Mining Areas</b><br>Name: Gwaunclawdd<br>Ceased Operation: 1826<br>Commodity: Coal; Big<br>Reference: Not Supplied<br>Alternate: Not Supplied<br>Name/Mine:<br>Custodian: Branfill and Haines, 9 Picton Place, Swansea.                | A12SE (SW)                             | 534                          | 4       | 281975<br>211831 |
| 39     | <b>Potential Mining Areas</b><br>Name: Cwmtawe<br>Ceased Operation: 1923<br>Commodity: Coal; Gnappog<br>Reference: 8398<br>Alternate: Not Supplied<br>Name/Mine:<br>Custodian: Not Supplied   | A14SE (E)                              | 712                          | 4       | 283188<br>212106 |
| 40     | <b>Potential Mining Areas</b><br>Name: Cwmtawe<br>Ceased Operation: 1930<br>Commodity: Coal; Gnappog<br>Reference: 10378<br>Alternate: Not Supplied<br>Name/Mine:<br>Custodian: Not Supplied  | A14SE (E)                              | 712                          | 4       | 283188<br>212106 |
| 41     | <b>Potential Mining Areas</b><br>Name: Dulais<br>Ceased Operation: 1931<br>Commodity: Coal; Bluers<br>Reference: 6784<br>Alternate: Not Supplied<br>Name/Mine:<br>Custodian: Not Supplied   | A8SE (SE)                              | 761                          | 4       | 282771<br>211411 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 42     | <p><b>Potential Mining Areas</b></p> <p>Name: Dulais Anthracite<br/>           Ceased Operation: 1934<br/>           Commodity: Coal; Peacock; Rhyd; Grey; Rider; Cnapiog (Gnappog); Bluers; Nine Feet or Big; New<br/>           Reference: 11207<br/>           Alternate: Not Supplied<br/>           Name/Mine:<br/>           Custodian: Not Supplied</p> | A8SE (SE)                              | 761                          | 4       | 282771<br>211411 |
| 43     | <p><b>Potential Mining Areas</b></p> <p>Name: Gwaunclawdd<br/>           Ceased Operation: 1927<br/>           Commodity: Coal; White; Eighteen Feet<br/>           Reference: 9032<br/>           Alternate: Not Supplied<br/>           Name/Mine:<br/>           Custodian: Not Supplied</p>  | A12NW (W)                              | 850                          | 4       | 281580<br>212141 |
| 44     | <p><b>Potential Mining Areas</b></p> <p>Name: Cwm Mawr<br/>           Ceased Operation: 1904<br/>           Commodity: Coal; Seam unnamed<br/>           Reference: Not Supplied<br/>           Alternate: Not Supplied<br/>           Name/Mine:<br/>           Custodian: Roberts and Stewart, 28 Fisher Street, Swansea.</p>                                | A9SE (SE)                              | 995                          | 4       | 283173<br>211403 |

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 45     | <b>Extractive Industries or Potential Excavations from 1855-1909</b><br>Use: Aber-craf Colliery<br>First Map Published 1878<br>Date:<br>Last Map Published Not Applicable<br>Date:                                | A13SW (SW)                             | 0                            | -       | 282453<br>212122 |
| 46     | <b>Extractive Industries or Potential Excavations from 1855-1909</b><br>Use: Air Shaft<br>First Map Published 1878<br>Date:<br>Last Map Published Not Applicable<br>Date:   | A13SW (W)                              | 11                           | -       | 282419<br>212111 |
| 47     | <b>Extractive Industries or Potential Excavations from 1855-1909</b><br>Use: Old Coal Level<br>First Map Published 1878<br>Date:<br>Last Map Published Not Applicable<br>Date:                                    | A13NW (NW)                             | 33                           | -       | 282417<br>212164 |
| 48     | <b>Extractive Industries or Potential Excavations from 1855-1909</b><br>Use: Unspecified Deposited Material<br>First Map Published 1878<br>Date:<br>Last Map Published Not Applicable<br>Date:                    | A13SW (SW)                             | 53                           | -       | 282384<br>212085 |
| 49     | <b>Extractive Industries or Potential Excavations from 1893-1915</b><br>Use: Air Shaft<br>First Map Published 1905<br>Date:<br>Last Map Published Not Applicable<br>Date:   | A13SW (W)                              | 11                           | -       | 282418<br>212111 |
| 50     | <b>Extractive Industries or Potential Excavations from 1893-1915</b><br>Use: International Purification Works (Sewage & Water)<br>First Map Published 1905<br>Date:<br>Last Map Published Not Applicable<br>Date: | A13SW (SW)                             | 15                           | -       | 282430<br>212097 |
| 51     | <b>Extractive Industries or Potential Excavations from 1893-1915</b><br>Use: Abercraive Colliery<br>First Map Published 1905<br>Date:<br>Last Map Published Not Applicable<br>Date:                               | A13SW (S)                              | 25                           | -       | 282450<br>212086 |
| 52     | <b>Extractive Industries or Potential Excavations from 1893-1915</b><br>Use: Unspecified Pit<br>First Map Published 1905<br>Date:<br>Last Map Published Not Applicable<br>Date:                                   | A13NW (NW)                             | 33                           | -       | 282416<br>212165 |
| 53     | <b>Extractive Industries or Potential Excavations from 1893-1915</b><br>Use: Old Level<br>First Map Published 1905<br>Date:<br>Last Map Published Not Applicable<br>Date:   | A13NW (NW)                             | 40                           | -       | 282413<br>212170 |
| 54     | <b>Extractive Industries or Potential Excavations from 1893-1915</b><br>Use: Unspecified Deposited Material<br>First Map Published 1905<br>Date:<br>Last Map Published Not Applicable<br>Date:                    | A13SE (S)                              | 46                           | -       | 282468<br>212066 |
| 55     | <b>Extractive Industries or Potential Excavations from 1893-1915</b><br>Use: International Anthracite Colliery<br>First Map Published 1905<br>Date:<br>Last Map Published Not Applicable<br>Date:                 | A13SW (SW)                             | 48                           | -       | 282387<br>212089 |



| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 56     | <b>Extractive Industries or Potential Excavations from 1893-1915</b><br>Use: Unspecified Deposited Material<br>First Map Published 1905<br>Date:<br>Last Map Published Not Applicable<br>Date:                    | A13NW (N)                              | 99                           | -       | 282427<br>212233 |
| 57     | <b>Extractive Industries or Potential Excavations from 1906-1937</b><br>Use: Air Shaft<br>First Map Published 1919<br>Date:<br>Last Map Published Not Applicable<br>Date:   | A13SW (W)                              | 11                           | -       | 282418<br>212112 |
| 58     | <b>Extractive Industries or Potential Excavations from 1906-1937</b><br>Use: International Purification Works (Sewage & Water)<br>First Map Published 1919<br>Date:<br>Last Map Published Not Applicable<br>Date: | A13SW (SW)                             | 15                           | -       | 282430<br>212097 |
| 59     | <b>Extractive Industries or Potential Excavations from 1906-1937</b><br>Use: Abercraive Colliery<br>First Map Published 1919<br>Date:<br>Last Map Published Not Applicable<br>Date:                               | A13SW (S)                              | 18                           | -       | 282451<br>212092 |
| 60     | <b>Extractive Industries or Potential Excavations from 1906-1937</b><br>Use: Unspecified Pit<br>First Map Published 1919<br>Date:<br>Last Map Published Not Applicable<br>Date:                                   | A13NW (NW)                             | 34                           | -       | 282417<br>212165 |
| 61     | <b>Extractive Industries or Potential Excavations from 1906-1937</b><br>Use: Unspecified Deposited Material<br>First Map Published 1919<br>Date:<br>Last Map Published Not Applicable<br>Date:                    | A13SE (S)                              | 44                           | -       | 282469<br>212068 |
| 62     | <b>Extractive Industries or Potential Excavations from 1906-1937</b><br>Use: Unspecified Deposited Material<br>First Map Published 1919<br>Date:<br>Last Map Published Not Applicable<br>Date:                    | A13SE (SE)                             | 92                           | -       | 282508<br>212026 |
| 63     | <b>Extractive Industries or Potential Excavations from 1906-1937</b><br>Use: International Anthracite Colliery<br>First Map Published 1919<br>Date:<br>Last Map Published Not Applicable<br>Date:                 | A13SW (W)                              | 94                           | -       | 282337<br>212097 |
| 64     | <b>Extractive Industries or Potential Excavations from 1906-1937</b><br>Use: Drift<br>First Map Published 1919<br>Date:<br>Last Map Published Not Applicable<br>Date:   | A13SE (S)                              | 95                           | -       | 282457<br>212017 |
| 65     | <b>Extractive Industries or Potential Excavations from 1950-1980</b><br>Use: Mine<br>First Map Published 1962<br>Date:<br>Last Map Published Not Applicable<br>Date:  | A13SW (S)                              | 13                           | -       | 282451<br>212097 |
| 66     | <b>Extractive Industries or Potential Excavations from 1950-1980</b><br>Use: Slag Heaps<br>First Map Published 1962<br>Date:<br>Last Map Published N/A<br>Date:   | A13SW (W)                              | 59                           | -       | 282374<br>212091 |

## Historical Land Use Information (1:2,500)

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 67     | <b>Extractive Industries or Potential Excavations from 1950-1980</b><br>Use: Unspecified Deposited Material<br>First Map Published 1962<br>Date:<br>Last Map Published Not Applicable<br>Date: | A13SE (SE)                             | 97                           | -       | 282499<br>212017 |

# Historical Land Use Information (1:10,000)

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 68     | <b>Air Shafts</b><br>Use: Not Supplied<br>Date of Mapping: 1891 - 1953          | A13SW (W)                              | 8                            | -       | 282422<br>212116 |
| 69     | <b>Air Shafts</b><br>Use: Not Supplied<br>Date of Mapping: 1905                 | A9NE (SE)                              | 816                          | -       | 283190<br>211717 |
| 70     | <b>Air Shafts</b><br>Use: Not Supplied<br>Date of Mapping: 1891                 | A12NW (W)                              | 958                          | -       | 281528<br>212453 |
| 71     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A13NW (N)                              | 207                          | -       | 282424<br>212340 |
| 71     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A13NW (N)                              | 237                          | -       | 282422<br>212371 |
| 72     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A13SE (SE)                             | 289                          | -       | 282589<br>211846 |
| 73     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A13NW (N)                              | 294                          | -       | 282434<br>212427 |
| 74     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A13SE (S)                              | 297                          | -       | 282461<br>211815 |
| 75     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A8NW (S)                               | 358                          | -       | 282346<br>211763 |
| 76     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A8NW (SW)                              | 514                          | -       | 282220<br>211642 |
| 77     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A7NE (SW)                              | 544                          | -       | 281997<br>211781 |
| 78     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A8NE (SE)                              | 570                          | -       | 282733<br>211603 |
| 79     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A8NE (S)                               | 571                          | -       | 282465<br>211538 |
| 80     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A14SE (E)                              | 696                          | -       | 283166<br>212020 |
| 81     | <b>General Quarrying</b><br>Use: Not Supplied<br>Date of Mapping: 1891          | A12SW (W)                              | 762                          | -       | 281668<br>212102 |
| 82     | <b>Heap, unknown constituents</b><br>Use: Not Supplied<br>Date of Mapping: 1988 | A13SE (SE)                             | 366                          | -       | 282667<br>211800 |
| 83     | <b>Heap, unknown constituents</b><br>Use: Not Supplied<br>Date of Mapping: 1988 | A8NE (SE)                              | 393                          | -       | 282639<br>211754 |
| 84     | <b>Heap, unknown constituents</b><br>Use: Not Supplied<br>Date of Mapping: 1953 | A14SE (E)                              | 938                          | -       | 283365<br>211814 |
| 85     | <b>Mineral Railway</b><br>Use: Not Supplied<br>Date of Mapping: 1921            | A13SE (SE)                             | 185                          | -       | 282630<br>212011 |
| 86     | <b>Mineral Railway</b><br>Use: Not Supplied<br>Date of Mapping: 1905            | A14SW (E)                              | 519                          | -       | 282988<br>212024 |
| 87     | <b>Mineral Railway</b><br>Use: Not Supplied<br>Date of Mapping: 1921            | A9NE (SE)                              | 878                          | -       | 283281<br>211763 |

# Historical Land Use Information (1:10,000)

| Map ID | Details   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|---|--|------------------------------|---------|------------------|
| 88     | <b>Mineral Railway</b><br>Use: Not Supplied<br>Date of Mapping: 1891  | A17SW (NW)                             | 905                          | -       | 281673<br>212628 |
| 89     | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1891 - 1953                              | A13SW (W)                              | 73                           | -       | 282358<br>212099 |
| 90     | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1921 - 1953                              | A14SW (E)                              | 423                          | -       | 282882<br>211994 |
| 91     | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1891                                     | A12SE (W)                              | 521                          | -       | 281916<br>212022 |
| 92     | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1891 - 1905                              | A8NW (SW)                              | 523                          | -       | 282143<br>211675 |
| 93     | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1891                                     | A7NE (SW)                              | 653                          | -       | 281884<br>211753 |
| 94     | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1905                                     | A14SW (SE)                             | 695                          | -       | 283118<br>211845 |
| 95     | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1905 - 1921                              | A12SW (W)                              | 756                          | -       | 281674<br>212086 |
| 96     | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1905                                     | A9NE (SE)                              | 822                          | -       | 283216<br>211755 |
| 97     | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1921 - 1953                              | A14SE (SE)                             | 822                          | -       | 283233<br>211793 |
| 98     | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1921 - 1953                              | A14SE (E)                              | 871                          | -       | 283345<br>212046 |
| 99     | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1891                                     | A12NW (W)                              | 940                          | -       | 281542<br>212439 |
| 100    | <b>Mining of coal &amp; lignite</b><br>Use: Not Supplied<br>Date of Mapping: 1921 - 1953                              | A9NE (E)                               | 998                          | -       | 283399<br>211734 |
| 101    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A13SW (SW)                             | 0                            | -       | 282453<br>212122 |
| 102    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A13SW (W)                              | 95                           | -       | 282336<br>212095 |
| 103    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A13NW (N)                              | 207                          | -       | 282424<br>212340 |
| 104    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A13NW (N)                              | 237                          | -       | 282422<br>212371 |
| 105    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A13SE (SE)                             | 289                          | -       | 282589<br>211846 |
| 106    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A13NW (N)                              | 294                          | -       | 282434<br>212427 |
| 107    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A13SE (S)                              | 297                          | -       | 282461<br>211815 |
| 108    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988 | A8NW (S)                               | 358                          | -       | 282346<br>211763 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
| 109    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A14SW (E)                              | 423                          | -       | 282882<br>211994 |
| 110    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A8NW (SW)                              | 514                          | -       | 282220<br>211642 |
| 111    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A12SE (W)                              | 521                          | -       | 281916<br>212022 |
| 112    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A8NW (SW)                              | 523                          | -       | 282143<br>211675 |
| 113    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A7NE (SW)                              | 544                          | -       | 281997<br>211781 |
| 114    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A8NE (SE)                              | 570                          | -       | 282733<br>211603 |
| 115    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A8NE (S)                               | 571                          | -       | 282465<br>211538 |
| 116    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A7NE (SW)                              | 653                          | -       | 281884<br>211753 |
| 117    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A14SW (SE)                             | 695                          | -       | 283118<br>211845 |
| 118    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A14SE (E)                              | 696                          | -       | 283166<br>212020 |
| 119    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A12SW (W)                              | 756                          | -       | 281674<br>212086 |
| 120    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A9NE (SE)                              | 816                          | -       | 283190<br>211717 |
| 121    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A14SE (SE)                             | 822                          | -       | 283233<br>211793 |
| 122    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A14SE (E)                              | 871                          | -       | 283345<br>212046 |
| 123    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A12NW (W)                              | 958                          | -       | 281528<br>212453 |
| 124    | <b>Potentially Infilled Land (Non-Water)</b><br>Use: Unknown Filled Ground (Pit, quarry etc)<br>Date of Mapping: 1988                  | A9NE (E)                               | 998                          | -       | 283399<br>211734 |
| 125    | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1953 | A13NE (NE)                             | 132                          | -       | 282544<br>212244 |
| 126    | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1953 | A18SW (N)                              | 435                          | -       | 282446<br>212568 |
| 127    | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1891 | A18SW (N)                              | 672                          | -       | 282296<br>212792 |
| 128    | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1953 | A18NW (N)                              | 730                          | -       | 282321<br>212856 |
| 129    | <b>Potentially Infilled Land (Water)</b><br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1953 | A18NW (N)                              | 770                          | -       | 282434<br>212903 |

| Map ID | Details  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--|--|------------------------------|---------|------------------|
|        | <b>CBSCB Compensation District</b><br>The site does not fall within the brine compensation area.   |  |                              |         |                  |
|        | <b>Brine Subsidence Solution Area</b><br>The site does not fall within the brine subsidence solution area.   |  |                              |         |                  |
| 130    | <b>Potential for Collapsible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |
| 131    | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service               | A13SE (SE)                             | 226                          | 1       | 282629<br>211946 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service              | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service               | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |
| 132    | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                  | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |
| 133    | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service                       | A13NW (N)                              | 14                           | 1       | 282450<br>212149 |
| 134    | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                  | A13NE (NE)                             | 81                           | 1       | 282520<br>212199 |
| 135    | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                  | A13SW (S)                              | 96                           | 1       | 282450<br>212016 |
| 136    | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                  | A13NE (N)                              | 129                          | 1       | 282481<br>212261 |
| 137    | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                  | A13NE (NE)                             | 208                          | 1       | 282622<br>212279 |
| 138    | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                  | A13NE (E)                              | 221                          | 1       | 282685<br>212204 |
| 139    | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                  | A13SE (SE)                             | 226                          | 1       | 282629<br>211946 |
| 140    | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                  | A13NE (NE)                             | 230                          | 1       | 282602<br>212324 |
| 141    | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service               | A13NE (NE)                             | 128                          | 1       | 282570<br>212218 |
| 142    | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service               | A13NW (NW)                             | 210                          | 1       | 282294<br>212293 |
| 143    | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service               | A13SE (SE)                             | 226                          | 1       | 282629<br>211946 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service              | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |
| 144    | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13SW (SW)                             | 0                            | 1       | 282453<br>212122 |



The following mapping has been analysed for Historical Land Use Information (1:2,500):






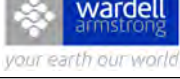

| <b>1:2,500</b>       | <b>Mapsheet</b> | <b>Published Date</b> |
|----------------------|-----------------|-----------------------|
| Brecknockshire       | 043_08          | 1878                  |
| Brecknockshire       | 043_08          | 1905                  |
| Brecknockshire       | 043_08          | 1919                  |
| Ordnance Survey Plan | SN8211          | 1962                  |
| Ordnance Survey Plan | SN8212          | 1962                  |

The following mapping has been analysed for Historical Land Use Information (1:10,000):

| <b>1:10,560</b>      | <b>Mapsheet</b> | <b>Published Date</b> |
|----------------------|-----------------|-----------------------|
| Glamorganshire       | 003_00          | 1883                  |
| Brecknockshire       | 043_NE          | 1891                  |
| Brecknockshire       | 043_SE          | 1891                  |
| Glamorganshire       | 003_SE          | 1901                  |
| Brecknockshire       | 043_NE          | 1905                  |
| Brecknockshire       | 043_SE          | 1905                  |
| Glamorganshire       | 003_SE          | 1921                  |
| Brecknockshire       | 043_00          | 1921                  |
| Brecknockshire       | 043_NE          | 1953                  |
| Brecknockshire       | 043_SE          | 1953                  |
| Ordnance Survey Plan | SN81SW          | 1965                  |
| <b>1:10,000</b>      | <b>Mapsheet</b> | <b>Published Date</b> |
| Ordnance Survey Plan | SN81SW          | 1988                  |

| <b>Mining and Cavities Data</b>  | <b>Version</b>               | <b>Update Cycle</b>   |
|--|------------------------------|-----------------------|
| <b>BGS Recorded Mineral Sites</b><br>British Geological Survey - National Geoscience Information Service   | November 2021                | Bi-Annually           |
| <b>Coal Mining Affected Areas</b><br>The Coal Authority - Property Searches  | March 2014                   | Annual Rolling Update |
| <b>Man Made Mining Cavities</b><br>Stantec UK Ltd  | December 2021                | Bi-Annually           |
| <b>Mining Instability</b><br>Ove Arup & Partners   | June 1998                    | Not Applicable        |
| <b>Natural Cavities</b><br>Stantec UK Ltd  | December 2021                | Bi-Annually           |
| <b>Non Coal Mining Areas of Great Britain</b><br>British Geological Survey - National Geoscience Information Service                               | May 2015                     | Not Applicable        |
| <b>Historical Land Use Information (1:2,500)</b>   | <b>Version</b>               | <b>Update Cycle</b>   |
| <b>Subterranean Features</b><br>Landmark Information Group Limited   | February 2020                | Bi-Annually           |
| <b>Ground Stability Data (1:50,000)</b>  | <b>Version</b>               | <b>Update Cycle</b>   |
| <b>CBSCB Compensation District</b><br>Cheshire Brine Subsidence Compensation Board (CBSCB)<br>Cheshire Brine Subsidence Compensation Board (CBSCB) | August 2011<br>November 2020 | As notified           |
| <b>Potential for Collapsible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                   | April 2020                   | As notified           |
| <b>Potential for Compressible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                  | January 2019                 | As notified           |
| <b>Potential for Ground Dissolution Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                   | January 2019                 | As notified           |
| <b>Potential for Landslide Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                     | January 2019                 | As notified           |
| <b>Potential for Running Sand Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                  | January 2019                 | As notified           |
| <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service    | January 2019                 | As notified           |
| <b>Brine Subsidence Solution Area</b><br>Johnson Poole & Bloomer   | December 2020                | Annual Rolling Update |

A selection of organisations who provide data within this report

| Data Supplier             | Data Supplier Logo   |
|---------------------------|--|
| Ordnance Survey           |   |
| British Geological Survey |   |
| The Coal Authority        |   |
| Ove Arup                  |   |
| Stantec UK Ltd            |   |
| Wardell Armstrong         |   |
| Johnson Poole & Bloomer   |  |

| Contact | Name and Address  | Contact Details   |
|---------|---|---|
| 1       | <b>British Geological Survey - Enquiry Service</b><br>British Geological Survey, Environmental Science Centre, Keyworth,<br>Nottingham, Nottinghamshire, NG12 5GG | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: enquiries@bgs.ac.uk<br>Website: www.bgs.ac.uk                          |
| 2       | <b>The Coal Authority - Property Searches</b><br>200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG   | Telephone: 0345 762 6848<br>Fax: 01623 637 338<br>Email: groundstability@coal.gov.uk<br>Website: www2.groundstability.com       |
| 3       | <b>Ove Arup &amp; Partners</b><br>Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1<br>3PL  | Telephone: 0191 261 6080<br>Fax: 0191 261 7879  |
| 4       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD  | Telephone: 0844 844 9960<br>Fax: 0844 844 9951<br>Email: customerservice@promap.co.uk<br>Website: www.landmarkinfo.co.uk        |
| -       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD  | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: customerservices@landmarkinfo.co.uk<br>Website: www.landmarkinfo.co.uk |

# Appendix C

## Historical Maps



# Historical Mapping Legends

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

**Quarry**   **Gravel Pit**   **Sand Pit**  
**Clay Pit**   **Shingle**   **Refuse Heap**  
**Sloping Masonry**   **Flat Rock**  
**Marsh**   **Reeds**   **Osiers**  
**Rough Pasture**   **Furze**   **Wood**  
**Mixed Wood**   **Brushwood**   **Orchard**  
**Fir**   **Ford**   **Stepping Stones**  
**Ferry**   **Waterfall**   **Lock**  
**Trig. Station**   **Altitude at Trig. Station**  
**B.M. 325.9**   **Bench Mark**   **Surface Level**  
**Arrow denotes flow of water**   **Antiquities (site of)**  
**Cutting**   **Embankment**  
**Railway crossing Road**   **Level Crossing**   **Road crossing Railway**  
**Railway crossing River or Canal**   **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)**  
**Co. Boro. Bdy.**  
**County Burgh Boundary (Scotland)**  
**BP BS** Boundary Post or Stone   **P.C.B** Police Call Box  
**B.R.** Bridle Road   **P** Pump  
**E.P** Electricity Pylon   **S.P** Signal Post  
**F.B.** Foot Bridge   **Sl** Sluice  
**F.P.** Foot Path   **Sp.** Spring  
**G.P** Guide Post or Board   **T.C.B** Telephone Call Box  
**M.S** Mile Stone   **Tr.** Trough  
**M.P M.R** Mooring Post or Ring   **W** Well

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

**Inactive Quarry, Chalk Pit or Clay Pit**   **Active Quarry, Chalk Pit or Clay Pit**  
**Rock**   **Boulders**  
**Cliff**   **Slopes**   **Top**  
**Roofed Building**   **Glazed Roof Building**  
**Sloping Masonry**   **Archway**  
**Non-Coniferous Tree (surveyed)**   **Coniferous Tree (surveyed)**  
**Non-Coniferous Trees (not surveyed)**   **Coniferous Trees (not surveyed)**  
**Orchard Tree**   **Scrub**   **Bracken**  
**Coppice, Osier**   **Reeds**   **Marsh, Saltings**  
**Rough Grassland**   **Heath**   **Culvert**  
**Direction of water flow**   **Bench Mark**   **Antiquity (site of)**  
**Cave Entrance**   **Triangulation Station**   **Electricity Pylon**  
**Electricity Transmission Line**  
**County Boundary (Geographical)**  
**County & Civil Parish Boundary**  
**Civil Parish Boundary**  
**Admin. County or County Bor. Boundary**  
**L B Bdy** London Borough Boundary  
**Symbol marking point where boundary mereing changes**  
**BH** Beer House   **P** Pillar, Pole or Post  
**BP, BS** Boundary Post or Stone   **PO** Post Office  
**Cn, C** Capstan, Crane   **PC** Public Convenience  
**Chy** Chimney   **PH** Public House  
**D Fn** Drinking Fountain   **Pp** Pump  
**EI P** Electricity Pillar or Post   **SB, S Br** Signal Box or Bridge  
**FAP** Fire Alarm Pillar   **SP, SL** Signal Post or Light  
**FB** Foot Bridge   **Spr** Spring  
**GP** Guide Post   **Tk** Tank or Track  
**H** Hydrant or Hydraulic   **TCB** Telephone Call Box  
**LC** Level Crossing   **TCP** Telephone Call Post  
**MH** Manhole   **Tr** Trough  
**MP** Mile Post or Mooring Post   **Wr Pt, Wr T** Water Point, Water Tap  
**MS** Mile Stone   **W** Well  
**NTL** Normal Tidal Limit   **Wd Pp** Wind Pump

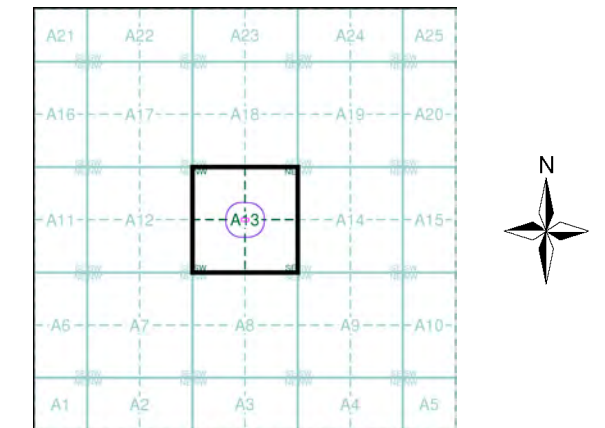
## Large-Scale National Grid Data 1:2,500 and 1:1,250

**Cliff**   **Slopes**   **Top**  
**Rock**   **Rock (scattered)**  
**Boulders**   **Boulders (scattered)**  
**Positioned Boulder**   **Scree**  
**Non-Coniferous Tree (surveyed)**   **Coniferous Tree (surveyed)**  
**Non-Coniferous Trees (not surveyed)**   **Coniferous Trees (not surveyed)**  
**Orchard Tree**   **Scrub**   **Bracken**  
**Coppice, Osier**   **Reeds**   **Marsh, Saltings**  
**Rough Grassland**   **Heath**   **Culvert**  
**Direction of water flow**   **Triangulation Station**   **Antiquity (site of)**  
**Electricity Transmission Line**   **Electricity Pylon**  
**B.M. 231.60m** Bench Mark   **Buildings with Building Seed**  
**Roofed Building**   **Glazed Roof Building**  
**Civil parish/community boundary**  
**District boundary**  
**County boundary**  
**Boundary post/stone**  
**Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)**  
**Bks** Barracks   **P** Pillar, Pole or Post  
**Bty** Battery   **PO** Post Office  
**Cemy** Cemetery   **PC** Public Convenience  
**Chy** Chimney   **Pp** Pump  
**Cis** Cistern   **Ppg Sta** Pumping Station  
**Dismtd Rly** Dismantled Railway   **PW** Place of Worship  
**EI Gen Sta** Electricity Generating Station   **Sewage Ppg Sta** Sewage Pumping Station  
**EI P** Electricity Pole, Pillar   **SB, S Br** Signal Box or Bridge  
**EI Sub Sta** Electricity Sub Station   **SP, SL** Signal Post or Light  
**FB** Filter Bed   **Spr** Spring  
**Fn / D Fn** Fountain / Drinking Ftn.   **Tk** Tank or Track  
**Gas Gov** Gas Valve Compound   **Tr** Trough  
**GVC** Gas Governor   **Wd Pp** Wind Pump  
**GP** Guide Post   **Wr Pt, Wr T** Water Point, Water Tap  
**MH** Manhole   **Wks** Works (building or area)  
**MP, MS** Mile Post or Mile Stone   **W** Well

## Historical Mapping & Photography included:

| Mapping Type                   | Scale   | Date        | Pg |
|--------------------------------|---------|-------------|----|
| Brecknockshire                 | 1:2,500 | 1878        | 2  |
| Brecknockshire                 | 1:2,500 | 1905        | 3  |
| Brecknockshire                 | 1:2,500 | 1919        | 4  |
| Ordnance Survey Plan           | 1:2,500 | 1962        | 5  |
| Additional SIMs                | 1:2,500 | 1977 - 1984 | 6  |
| Additional SIMs                | 1:2,500 | 1990        | 7  |
| Large-Scale National Grid Data | 1:2,500 | 1993        | 8  |
| Large-Scale National Grid Data | 1:2,500 | 1996        | 9  |
| Historical Aerial Photography  | 1:2,500 | 2001        | 10 |

## Historical Map - Segment A13



## Order Details

Order Number: 292667940\_2\_1  
 Customer Ref: 22075  
 National Grid Reference: 282450, 212120  
 Slice: A  
 Site Area (Ha): 0.1  
 Search Buffer (m): 100

## Site Details

Greenhill, Station Road, Caehopkin, Abercrave, SWANSEA, SA9 1TP



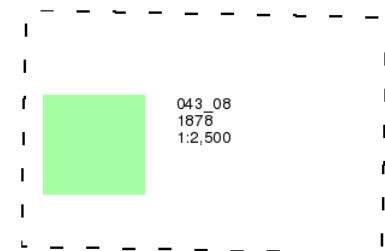
**Brecknockshire**

**Published 1878**

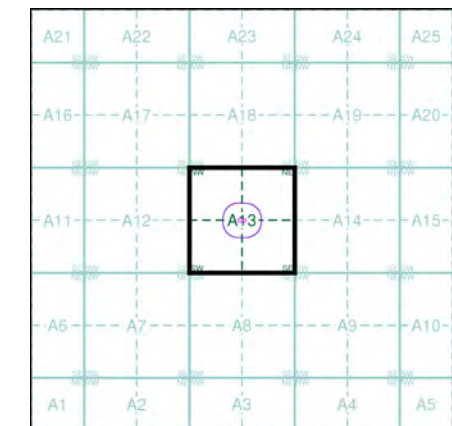
**Source map scale - 1:2,500**

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

**Map Name(s) and Date(s)**



**Historical Map - Segment A13**

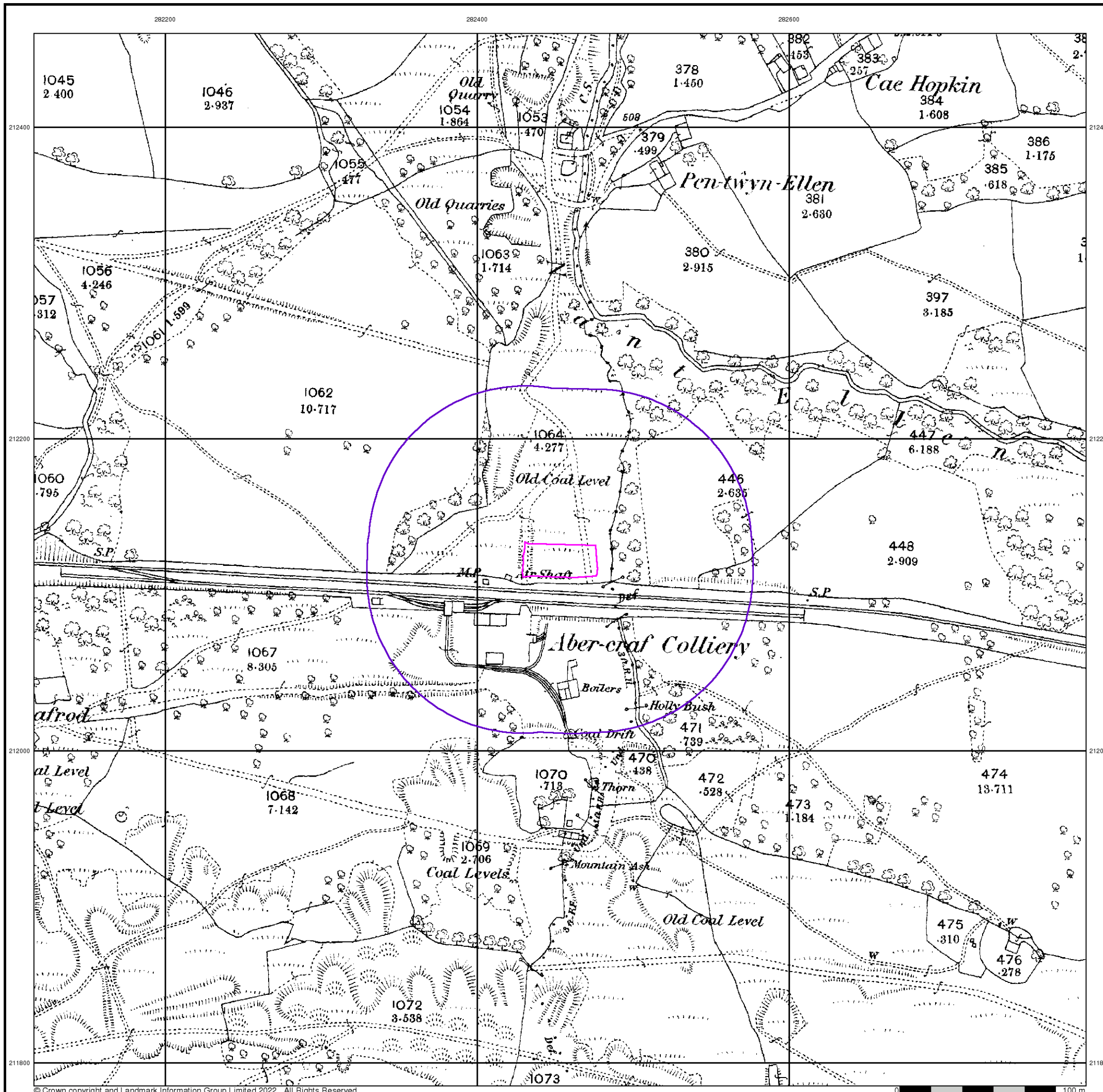


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**Site Details**

Greenhill, Station Road, Caehopkin, Abercrave, SWANSEA, SA9 1TP





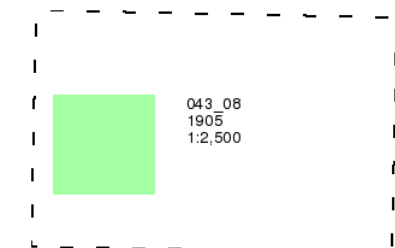
**Brecknockshire**

**Published 1905**

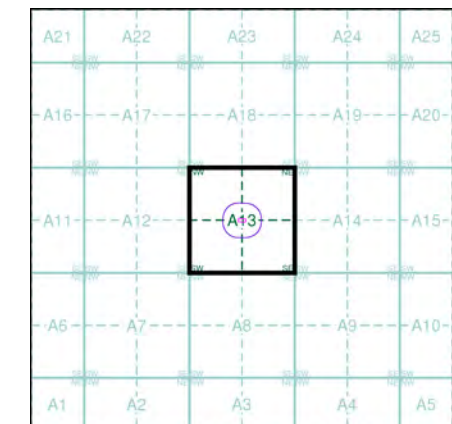
**Source map scale - 1:2,500**

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 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A13**

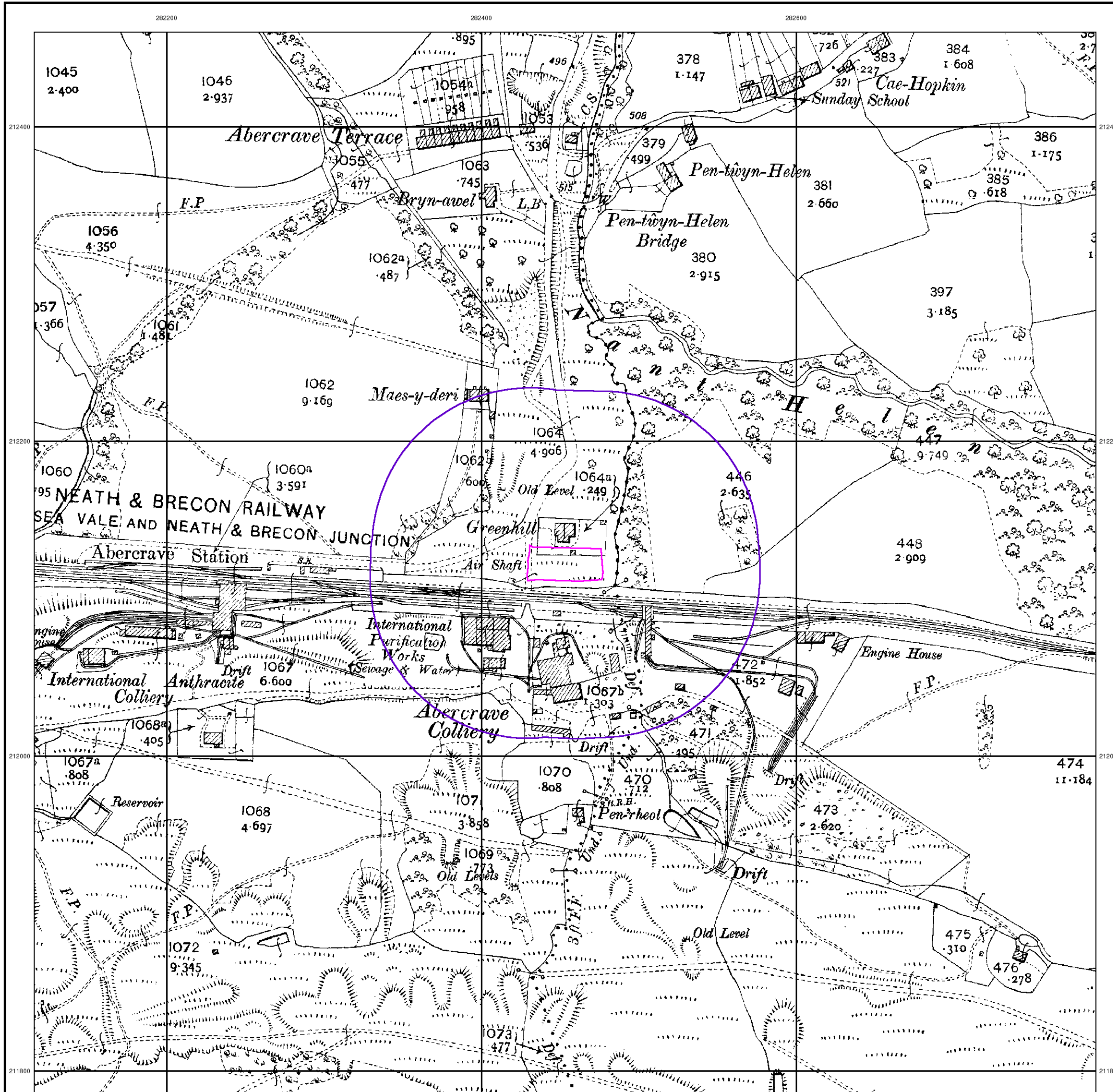


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Search Buffer (m): 100

**Site Details**

Greenhill, Station Road, Caehopkin, Abercrave, SWANSEA, SA9 1TP





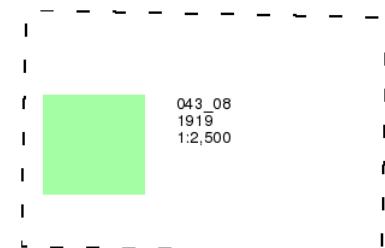
**Brecknockshire**

**Published 1919**

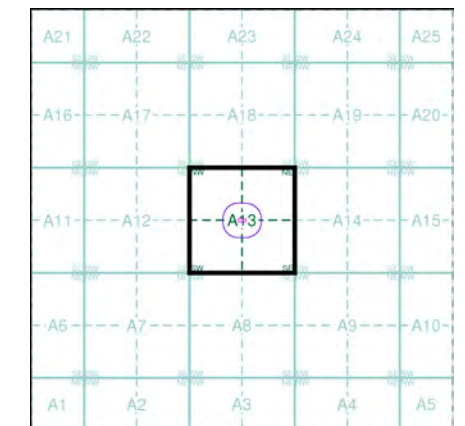
**Source map scale - 1:2,500**

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

**Map Name(s) and Date(s)**



**Historical Map - Segment A13**

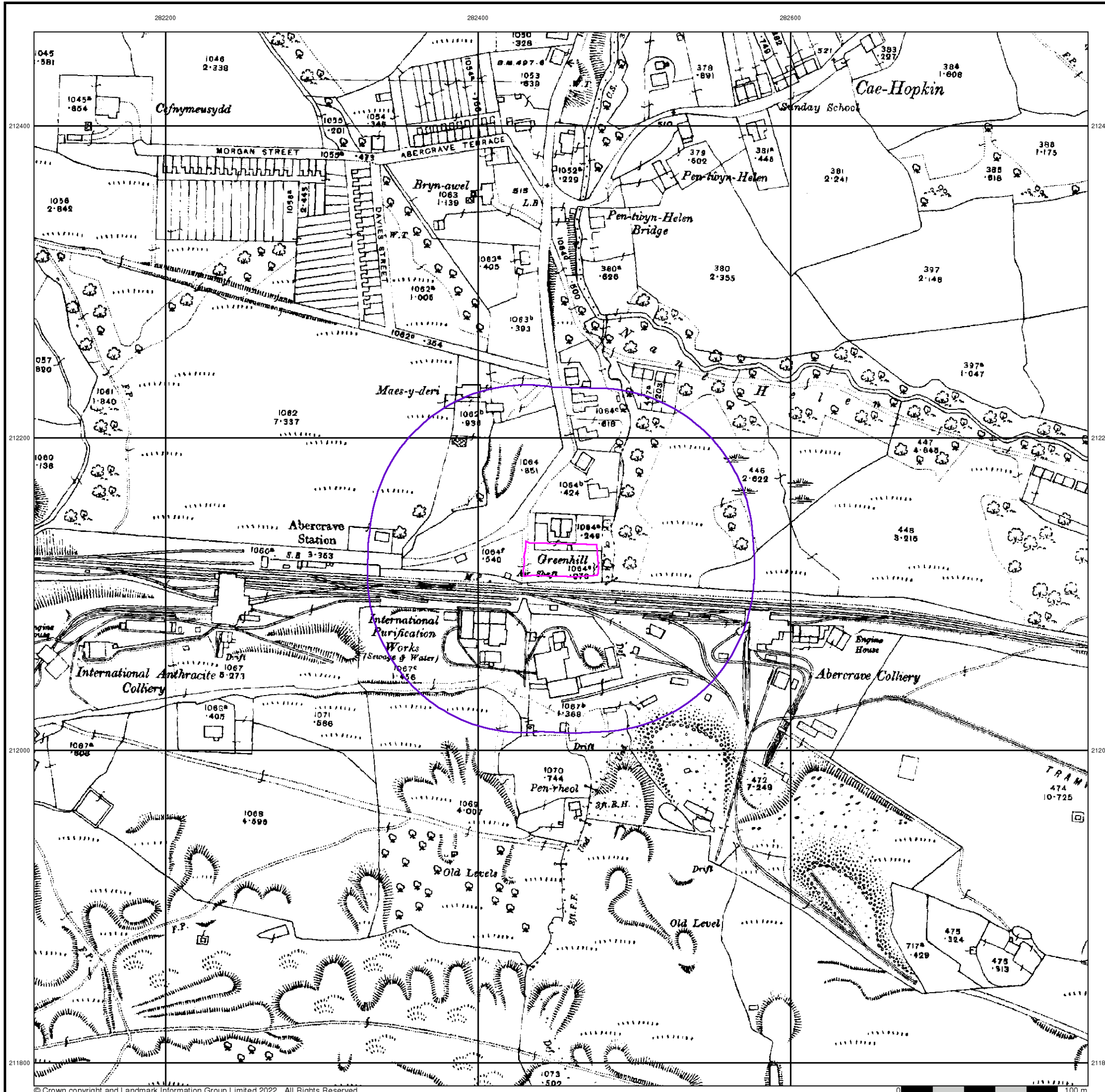


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 National Grid Reference: 282450, 212120  
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**Site Details**

Greenhill, Station Road, Caehopkin, Abercrave, SWANSEA, SA9 1TP





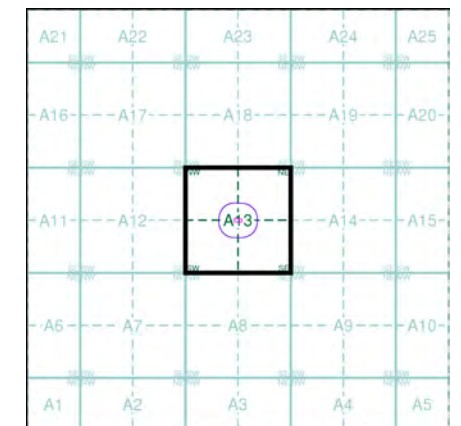
**Ordnance Survey Plan**  
**Published 1962**  
**Source map scale - 1:2,500**

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**Map Name(s) and Date(s)**

|        |      |         |
|--------|------|---------|
| SN8212 | 1962 | 1:2,500 |
| SN8211 | 1962 | 1:2,500 |

**Historical Map - Segment A13**



**Order Details**

Order Number: 292667940\_2\_1  
Customer Ref: 22075  
National Grid Reference: 282450, 212120  
Slice: A  
Site Area (Ha): 0.1  
Search Buffer (m): 100

**Site Details**

Greenhill, Station Road, Caehopkin, Abercrave, SWANSEA, SA9 1TP



**Additional SIMs**

**Published 1977 - 1984**

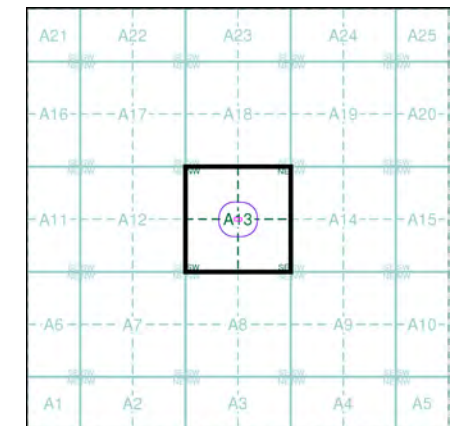
**Source map scale - 1:2,500**

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)**

|        |      |         |
|--------|------|---------|
| SN8212 | 1977 | 1:2,500 |
| SN8211 | 1984 | 1:2,500 |

**Historical Map - Segment A13**



**Order Details**

Order Number: 292667940\_2\_1  
 Customer Ref: 22075  
 National Grid Reference: 282450, 212120  
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**Site Details**

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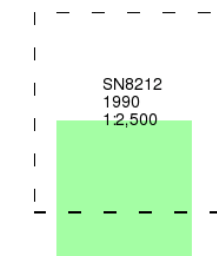
**Additional SIMs**

**Published 1990**

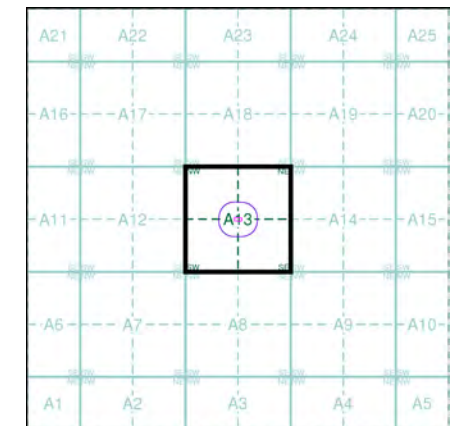
**Source map scale - 1:2,500**

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

**Map Name(s) and Date(s)**



**Historical Map - Segment A13**

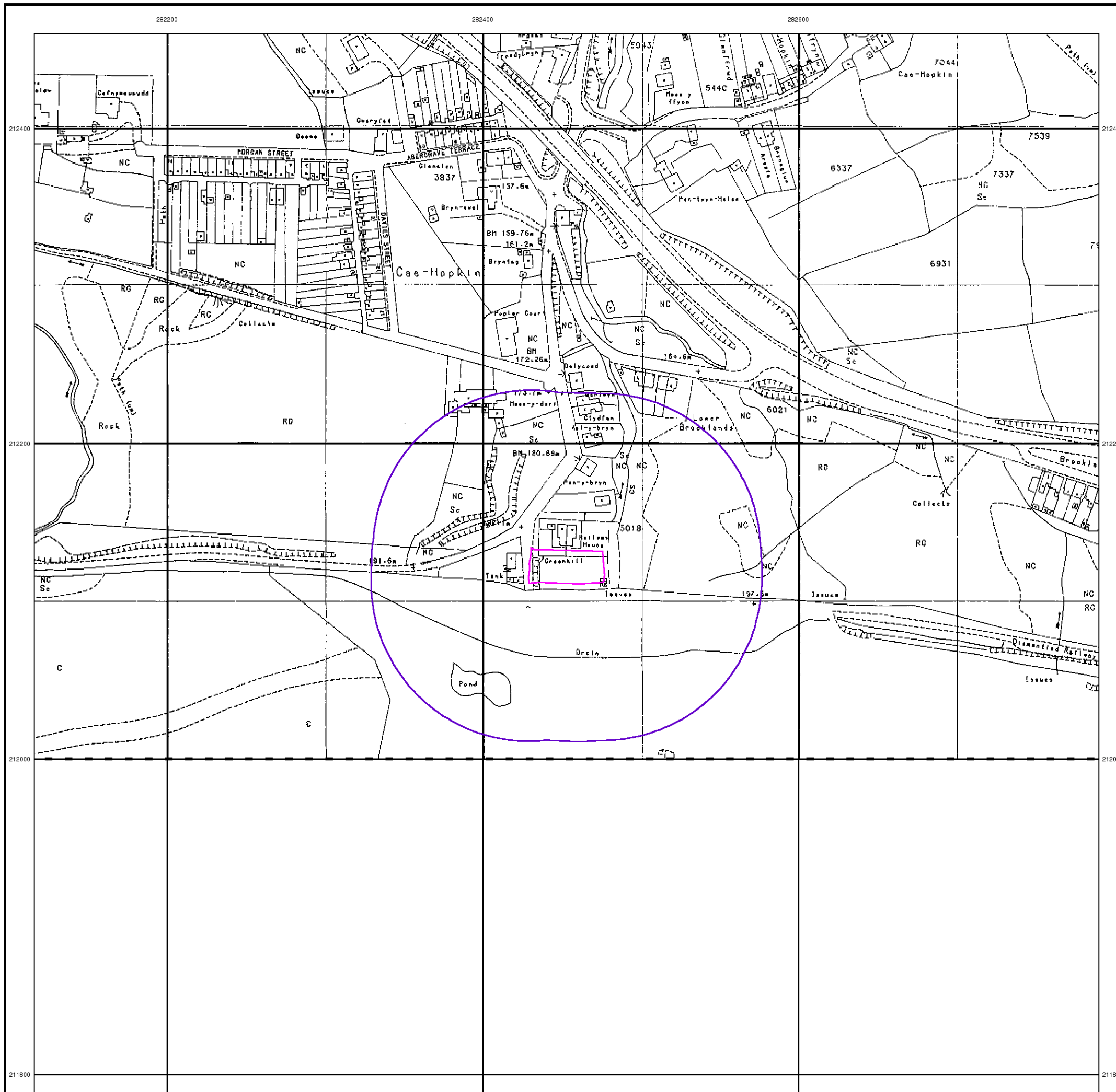


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 Slice: A  
 Site Area (Ha): 0.1  
 Search Buffer (m): 100

**Site Details**

Greenhill, Station Road, Caehopkin, Abercrave, SWANSEA, SA9 1TP





## Large-Scale National Grid Data

Published 1993

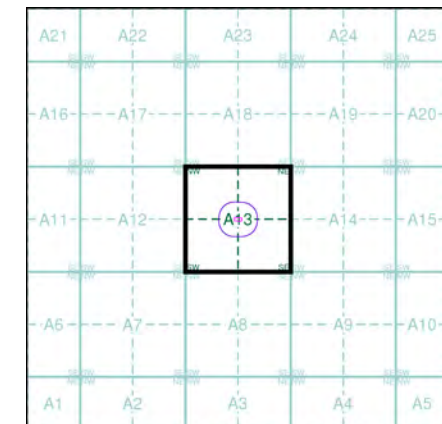
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)

|        |      |         |
|--------|------|---------|
| SN8212 | 1993 | 1:2,500 |
| SN8211 | 1993 | 1:2,500 |

### Historical Map - Segment A13

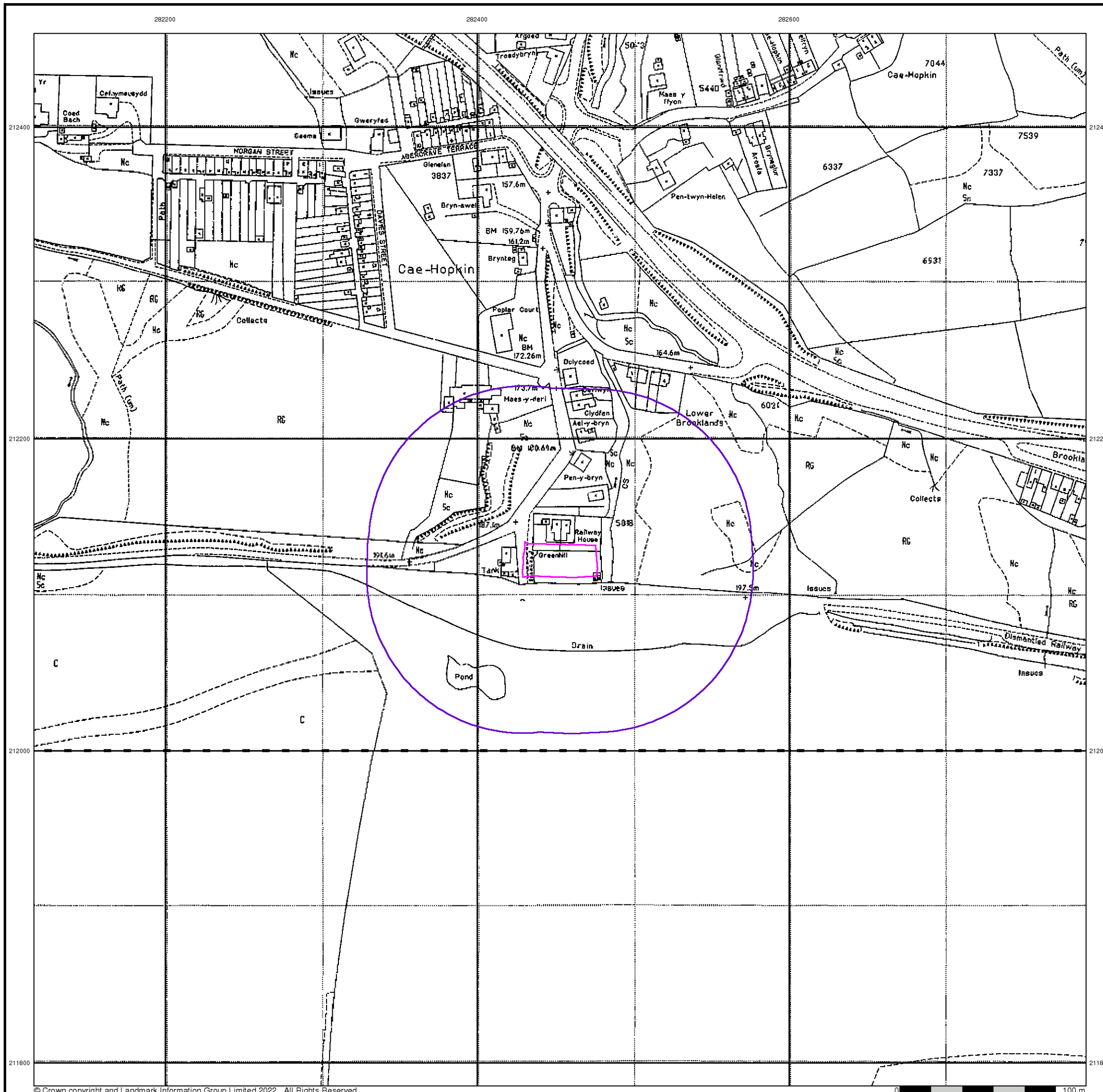


### Order Details

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Search Buffer (m): 100

### Site Details

Greenhill, Station Road, Caehopkin, Abercrave, SWANSEA, SA9 1TP



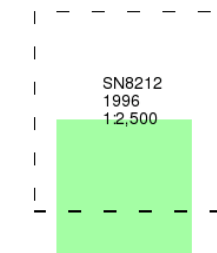
## Large-Scale National Grid Data

Published 1996

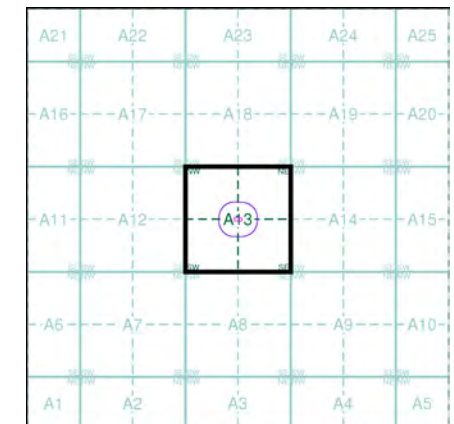
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

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