

Huntley Wood Investments

**ARDAGH METAL PACKAGING,
ABERCANAID, MERTHYR TYDFIL**

Desk Study Report

11708/LW/16/DS.

CLIENT: **Huntley Wood Investments**

PROJECT: **Ardagh Metal Packaging, Abercanaid, Merthyr Tydfil**

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1.0 INTRODUCTION

1.1 GENERAL

Huntley Wood Investments are proposing to market a site at Ardagh Metal Packaging, Abercanaid, Merthyr Tydfil for mixed residential and commercial end-use.

Intégral Géotechnique (Wales) Limited have been appointed as the Geotechnical Engineers to undertake a geoenvironmental and geotechnical desk study.

The objectives of the geoenvironmental and geotechnical appraisal are to:

- Assess the degree, nature and extent of possible contamination and its implications for ownership and site development;
- Identify any geotechnical constraints on development; and
- Provide recommendations for physical site investigation works.

This report presents the findings of the desk study, and provides guidance on the scope of the geoenvironmental and geotechnical investigation.

The opinions and preliminary assessments presented are based on desk based research and should be reviewed after intrusive investigation, if required.

1.2 PROPOSED DEVELOPMENT

The proposed development will comprise of a mixture of residential and commercial end use, with associated access road, areas of hardstanding, soft landscaping and private gardens.

1.3 SCOPE OF WORKS

The work instructed included a desk study of available information, together with an initial conceptual site model. The desk study comprised a review of:

- An Envirocheck Report obtained for the site
- Old Ordnance Survey maps covering the site, included within the Envirocheck Report
- A Coal Authority Mining Report
- Geological maps of the area provided by the British Geological Survey
- the Environment Agency groundwater vulnerability map and aquifer database for the area

1.4 LIMITATIONS

This document is intended to be a working document for further development in discussion with all concerned including the Local Planning Authority, Natural Resources Wales and the NHBC, as appropriate.

“Contamination” is taken throughout the report to mean the “presence of one or more potentially harmful substances as a result of human activity”. The use of the term in this way does not imply that harm is being or might be caused by the contamination. It should be noted that “contamination” can have different meanings under different regulatory regimes, for example, planning, building control and Part IIA of the Environmental Protection Act 1990. Naturally elevated concentrations of potentially harmful substances may also be of concern and the significance of any that have been found is also evaluated in this report.

This report has been prepared for the use of Huntley Wood Investments Limited, and their advisors, and should not be passed to others without the express consent of Intégral Géotechnique (Wales) Limited.

2.0 THE SITE

2.1 SITE LOCATION AND DESCRIPTION

The site is located in Abercanaid, approximately 2.5km south of Merthyr Tydfil, at a National Grid Reference of 305460, 204240 see Figure 1.

The site is irregular in shape and occupies an area of approximately 8.13 hectares. The boundaries of the site are defined by the River Taff to the east, an unnamed road to the south and west and a warehouse to the north. A site plan is presented in Figure 2.

The site is situated on sloping ground, what slopes from an approximate elevation of 162m AOD in the east, to 157m AOD in the south.

The site is situated on the floodplain of the River Taff, however the site level has been raised, to its current elevation.

The site currently consists of a concrete slab, which remains from the demolition of the previous buildings onsite, with stockpiles of brick rubble and demolition waste. The northern area of the site is covered by an area of soft finishing. A vacant building currently exists in the far south of the site, with an enclosed walkway that crosses the River Taff. Site photographs are presented in Figure 3.

2.2 SITE OPERATIONS

The site is vacant and the majority of the site covered in hardstanding or concrete slab remaining from the demolition of previous buildings.

The northern part of the site is covered by an area of soft finishing.

2.3 SURROUNDING LAND USE

To the south and south west of the site lie residential areas. To the west lies open land with by the A470 beyond. To the north lie commercial/ industrial properties. The River Taff forms the eastern site boundary.

2.4 AVAILABLE SITE INVESTIGATION DATA

Intégral Géotechnique (Wales) Limited has carried out the following report on the site:

- Coal Mining Risk Assessment, Ardagh Metal Packaging, Abercanaid, Merthyr Tydfil, dated February 2016 (Reference: 11708/LW/16/CMRA).

3.0 SITE HISTORY

The recent history of the site has been traced with the aid of an Envirocheck Report, a copy of which is included in Appendix A. The Envirocheck Report includes the following scaled historical maps:

Map Scale	Dates
1:2,500	1876-1881, 1881, 1900, 1919, 1964, 1972, 1972-1983, 1979, 1986, 1986, 1986-1988, 1988, 1993
1:10,560	1884, 1885, 1901, 1905, 1922, 1938, 1945, 1951.
1:10,000	1964-1965, 1969, 1970-1979, 1982-1989, 1990-1992, 2006, 2015

The earliest map in our possession, dated 1884, shows the site to be predominantly covered in colliery spoil heaps. An Old Coal Shaft was noted in the centre of the site.

A dock intercepted the far western central area of the site and tramway lines crossed the site along the western area. To the south of the dock were Abercanaid Houses, which consisted of a number of residential properties and rear gardens.

The most southern area of the site was noted as the Upper Abercanaid Pit (Coal), with an Engine and Boiler House located on the south west boundary.

A stream intercepted the site from the central western area and flowed towards the south east of the site into the River Taff. A minor stream or run-off channel intercepted the northern area of the site from the west and flowed in an easterly direction into the River Taff. In areas, the stream flowed below the spoil heaps, presumably within culverts.

To the south of the site were residential properties. To the west and south west of the site was a canal and associated towing path. Woodland areas and open fields with a number of old quarries and old air shafts are also indicated to the south of the site. To the north and north west of the site were colliery spoil heaps. The River Taff was located along the eastern boundary, followed by the Taff Vale Railway.

Numerous old airshafts were located beyond the south west of the site boundary.

3.0 SITE HISTORY (CONTINUED)

By 1900, the majority of the stream that incepted the north of the site, was indicated to flow below the spoil heaps. An Engine House was located in the north west of the site. The spoil heaps in the north and central area of the site were fed by tramlines. Abercanaid Houses had been demolished and replaced with tramlines and spoil heaps. The majority of the stream in the south of the site lay below the spoil heaps and tramlines.

A map dated 1919, shows the engine house and tramlines are no longer indicated. The Upper Abercanaid Pit was noted as disused. The Glamorganshire Canal located to the west of the site was noted as disused. A Gas Works was located some 400m north of the site.

By 1964, the majority of the site remained covered with soil heaps. Allotments were located in the far southern area of the site. The stream in the south of the site indicated to be the Nant Cannaid.

By 1972, the soil heaps were labelled as Tip (disused). A pipe line crossed the south of the site in an east to west trend. Three above ground electricity lines was shown to cross the site. A road entered the site from the north towards a factory that was located immediately to the north west of the site. An area of residential properties was located some 100m to the south west of the site. A factory was located adjacent to the Gas Works some 400m north of the site.

A map dated 1979, shows that the site had been cleared of the colliery spoil heaps and the overhead electricity cables had been removed. A factory was located immediately to the north of the site.

By 1986, buildings were located on site resemble the most recent site layout. The site contained a large building, with a smaller building in the south and west of the site. An above ground tank was located in the north east and two tanks in the west of the site. Off-site a further factory was located immediately to the west of the site.

A map dated 1988, shows the factory to the north of the site had expanded in size. No significant change had occurred on site. By 1997, the factory was known to have been operated by the Ardagh Group for printing of current boards and coating of metal packaging.

By 2006, no significant change had occurred on site. Abercanaid Industrial Estate was located some 250m to the north of the site.

3.0 SITE HISTORY (CONTINUED)

A map dated 2015, indicates that the large factory building and the smaller buildings and tanks in the north east of the site are no longer present. A building remained in the far south and west of the site.

4.0 SITE ENVIRONMENTAL SETTING

4.1 PHYSICAL SETTING

The site is situated on sloping ground that slopes from an approximate elevation of 162m AOD in the east, to 157m AOD in the south.

4.2 GEOLOGY

The 1:10,560 scale geological map of the area (Sheet SO 00 SE) shows the site is underlain by rocks of the South Wales Middle Coal Measures of Carboniferous age. The rocks comprise of mudstone and siltstone with several productive coal seams. The map indicates that these strata dip in a southern direction in the area, with recorded dips of 10 degrees shown to the south of the site.

The map indicates the conjectural outcrops of five coal seams at or near the site. In the southern to central area of the site, outcrops of the Two Feet Nine, Four Feet, Upper Six Feet and Lower Six Feet are indicated to be present. The outcrops of the Nine Feet and Bute seams are indicated to be present in the vicinity of the site northern boundary.

The site is therefore likely to be underlain at shallow depths by all of the above named coal seams. The northernmost part of the site may also be underlain at shallow depths by the Yard and Seven Feet seams, which typically lie some 25 to 30m below the Nine Feet seam.

The generalised vertical section of the geological map shows that all these coal seams have potentially workable seam thickness, as follows:

<u>Coal Seal</u>	<u>Typical Seam Thickness (m)</u>
Two Feet Nine	0.75
Four Feet	1.80
Upper Six Feet	0.90
Lower Six Feet	1.20
Nine Feet	3.65
Bute	1.20
Yard	0.75
Seven Feet	1.20

2.3 GEOLOGY (CONTINUED)

Most of these seams are known to have been mined in the area and each of these seams is likely to underlie part of the site at shallow depths.

The geological map indicates that Alluvium superficial deposits overlie the rock strata in the north and east of the site, while Glacial Till deposits overlie the rock strata in the west of the site.

Made ground is likely to be present over most/all of the site, due to its past industrial development and ground raising.

Previous site investigations undertaken by Intégral Géotechnique near the northern end of the site identified groundwater under sub-artesian pressure within the underlying rock strata of the South Wales Middle Coal Measures.

A review of available historical BGS borehole logs from the surrounding area encountered made ground to a depth of between 2.6 and 5.3m. The made ground was underlain by Glacial Till to a depth of between 7.4 and 15m. The South Wales Middle Coal Measures were proven to 30m below ground level. One borehole encountered the Four Feet coal seam at a depth of 11m and the Upper Six Feet seam at a depth of 25.5m.

A summary of the anticipated geological succession is given below in Table 1.

Table 1 : Summary of Anticipated Site Geology		
Geological unit	Horizon	Description
Recent	Made ground	Various materials
Quaternary	Glacial Till	Sands and gravels with varying matrix
Quaternary	Alluvium	Silt clay with layers of peat, sand and gravel.
Carboniferous	South Wales Middle Coal Measures	Coal bearing mudstones and siltstones with seatearths and minor sandstones.

4.3 RADON

The Envirocheck Report indicates that the site is located in a lower probability area, as less than 1% of homes are above the action level and radon protective measures are not required.

4.4 MINING

A Coal Mining Report for the site has been obtained from the Coal Authority and a copy is included in Appendix A. The report states the following:

- The site is in the likely zone of influence from workings in 3 seams of coal at shallow to 140m depth, and last worked in 1950.
- The site is not in the likely zone of influence of any present underground coal workings.
- The Coal Authority states that within, or within 20m of the boundary of the site, there are seven mine entries. The following information was provided:
 - 305204-038. This shaft was filled grouted and capped in 1975.
 - 305204-030. Information provided to the Coal Authority by British Coal indicated this shaft is filled.
 - 305204-069. No treatment details.
 - 305204-036. This shaft was filled grouted and capped in 1975.
 - 305204-031. This shaft was grouted and capped in 1977.
 - 305204-060. Uncovered during road improvements, we understand this adit was treated by K Wardell and Partners Consultant Mining Engineers.
 - 305204-037. This shaft was filled grouted and capped in 1975.
- The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.
- The site is not within the boundary of an opencast site from which coal has been removed by opencast methods.
- The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres, since 31st October 1994.
- There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The recorded workings at shallow to 140m depth are thought to be within the Seven Feet, Nine Feet and Four Feet coal seams.

2.4 MINING (CONTINUED)

As discussed earlier, the geological map of the area indicates that several coal seams, each with potentially workable seam thickness are likely to underlie the site at shallow depths, and there is a possibility of unrecorded as well as recorded shallow workings being present in many of these seams.

Wherever old workings underlie the site at shallow depths and are still uncollapsed, or only partially collapsed, there may be an associated risk of ground subsidence occurring and affecting the site surface.

Boreholes would need to be drilled across the site to locate and investigate the thicknesses and depths of the various underlying seams, in order to assess the potential associated risks of mining related ground subsidence.

The level of any associated potential ground subsidence risk will depend on the thickness and extent of any remnant voids and also whether there is sufficient overlying rock cover to prevent any associated remnant uncollapsed voids migrating up to the site's surface.

A Coal Mining Risk Assessment report (Ref 11708/LW/16/CMRA) has been produced. Reference should be made to this report for more information on mining risk.

4.5 HYDROLOGY, HYDROGEOLOGY AND FLOOD RISK

The River Taff is located along the eastern site boundary and flows in a southern direction. The Nant Canaid could still be present in a culvert beneath the southern part site, flowing west to east.

The Environment Agency groundwater vulnerability map and aquifer database classifies the bedrock and superficial deposits (Alluvium) beneath the site as a Secondary 'A' Aquifer. Secondary 'A' Aquifers are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

The Environment Agency groundwater vulnerability map and aquifer database classifies the superficial deposits consisting of Glacial Till beneath the west of the site as Unproductive Strata. Unproductive strata are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

4.5 HYDROLOGY, HYDROGEOLOGY AND FLOOD RISK (CONTINUED)

A perched water body may be anticipated in the made ground. Vertical migration of groundwater is likely to be limited by the high clay content of the glacial till and alluvium. It is considered possible that the existing site drainage can act as a pathway for potential surface contaminants.

The Envirocheck Report states that there are five discharge consents within 500m of the site. The nearest was located 60m to the south east for the discharge of trade effluent into the River Taff. The consent has expired.

The Envirocheck Report states that there are three water abstractions within 500m of the site. The nearest is located 221m to the north west, where surface water can be extracted from a single point.

Tables 2 and 3 present a summary of the hydrological features and key hydrogeological nature of the site.

Table 2: Summary of Site Hydrology					
Feature	Distance from site	Flow	Classification	Abstraction	Discharge
Nant Cannaid	On site (possibly below site in a culvert)	East	Not known	No	River Taff
River Taff	Immediately east of the site	South	Not known	No	Bristol Channel
Surface run-off	On site	Flows into site drainage	N/A	No	Not known
Site Drainage	On site	Not known	N/A	No	Not known

It is recommended that a survey of the culverts underlying the site is obtained in order that the potential development constraint is quantified. Note that the approximate path of an extended culvert is shown on Figure 2.

4.5 HYDROLOGY, HYDROGEOLOGY AND FLOOD RISK (CONTINUED)

Table 3: Summary of Site Hydrogeology				
Geological Unit	Aquifer Classification	Aquifer Characteristics	Source Protection Zone	Groundwater Abstractions
Made ground	Not classified	Highly variable permeability and porosity. Perched water may be present with variable flow directions.	No	None
Glacial Till	Unproductive Strata	Variable moderate permeability and porosity with intergranular flow possible. High clay content likely to restrict flow.	No	None
Alluvium	Secondary A Aquifer	Variable permeability generally low silty clay with peat, sand and gravel layers.	No	None
South Wales Middle Coal Measures	Secondary A Aquifer	Variable permeability generally low mudstone/siltstone and coals	No	None

The soils have been classified as having a low leachate potential. Soils of low leaching potential are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants. Lateral flow from these soils may contribute to groundwater recharge elsewhere in the catchment.

The Environment Agency Flood Risk Map as presented within the Envirocheck Report in Appendix A indicates that the majority of the site is at risk of flooding from rivers without defences. The northern area of the site is not indicated to be at risk of flooding from rivers. The Environment Agency Flood Risk Map for flooding from surface water indicates that the northern reaches of the site are also at risk of flooding. The combined effect for both flood maps is that almost the entire site is at risk of flooding.

4.6 LANDFILL SITES

The Envirocheck Report indicates that there is one landfill located within 1.0km of the site. This registered landfill site was located 794m to the south east of the site and authorised to accept excavated natural materials.

The Envirocheck Report indicated that there are no BGS recorded landfills, historic landfills or local authority landfills within 1.0km of the site.

4.7 POTENTIAL CONTAMINATION

Previous Uses

The various activities in the vicinity of the site which may have resulted in ground or water resource contamination on this site are listed below in Tables 4 and 5. Reference to Department of the Environment Industry Profiles has been made and a summary of the potential contaminants can be found in the tables.

4.7 POTENTIAL CONTAMINATION (CONTINUED)

Table 4: Potential Contaminants		
Land Use: colliery spoil tips/ coal mining and docks 1800s to 1970s		
Material/Process	Contamination/Hazard	Evidence
Colliery tips/stockpiles with engine and boiler house	Metals, semi metals, non-metals, PAH, hydrocarbons, asbestos.	Historical Maps
Tram / Railway line	Metals, semi metals, non-metals, PAH, hydrocarbons, asbestos.	Historical Maps
Canal Dock	Metals, semi metals, non-metals, PAH, hydrocarbons.	Historical Maps
Land Use: factory 1980s to present day		
Material/Process	Contamination/Hazard	Evidence
Imported made ground/earthworks/construction of former buildings.	Metals, semi metals, non-metals, PAH, asbestos.	Historical Maps/ site walkover
Above ground and in ground storage tanks	Hydrocarbons – Fuels.	Historical Maps
Light industrial uses including printing of circuit surfaces and coating of metal packaging.	Metals, Non-metals, Semi-Metals, PAH, PCBs, VOCs, SVOCs.	Contemporary Trade Directory
Potential Underground Storage Tanks	Hydrocarbons – Fuels.	Historical Maps

Existing Uses

It is understood that operations on site have ceased and buildings have been demolished to slab level.

4.7 POTENTIAL CONTAMINATION (CONTINUED)

Adjacent Site Uses

Table 5 : Potential Contaminants : Adjacent Site Uses		
Potential Contamination Source	Boundary	Associated Contaminants and Hazards
Residential	Southern and south western	No Significant Contaminants
Woodland	Western	No Significant Contaminants
Commercial / industrial	Northern	Metals, semi metals, non-metals, PAH, hydrocarbon and asbestos
River Taff	Eastern	No Significant Contaminants

4.8 OTHER ENVIRONMENTAL ISSUES

The Envirocheck Report identified environmentally sensitive land located 312m to the north west of the site. Natural Resources Wales has designated the land, known as Cwm Glo a Glyndyrys as a Site of Special Scientific Interest in 2003.

The Envirocheck Report indicates that there have been three recorded pollution incidents to controlled waters onsite.

In 1994, a Category 1 – Major Incident was recorded involving direct discharge of cement/mortar. The cause of pollutant was due to poor operational practice. The receiving water was not given.

In 1994, a Category 3 - Minor Incident was recorded involving direct discharge of crude sewage. The receiving water was not given.

In 1994, a Category 3 - Minor Incident was recorded involving direct discharge of crude sewage. The receiving water was not given. The cause of pollutant was due to poor operational practice.

There have been a further 16 recorded pollution incidents to controlled waters within 1.0km of the site. The nearest was located 136m to the north of the site. The incident was recorded as a Category 2 – Significant Incident, involving crude sewage in 1994. The receiving water is not given

4.8 OTHER ENVIRONMENTAL ISSUES (CONTINUED)

The Envirocheck Report indicates that there have been no prosecutions relating to authorised processes or controlled waters within 1.0km of the site.

5.0 PRELIMINARY CONCEPTUAL SITE MODEL

5.1 RISK ASSESSMENT FRAMEWORK

In order to be consistent with current UK government policies and legislation, it is necessary to identify, make decisions on, and take appropriate action to deal with land contamination, in accordance with the procedures specified in the Environment Agency document 'Model Procedures for the Management of Land Contamination CLR-11' (Environment Agency 2004).

The risk assessment process is designed to provide a reasoned, structured and pragmatic mechanism for the identification of any potential human health and controlled waters risks associated with land contamination and where necessary to develop a robust remediation strategy to ensure protection of the sensitive receptors (human health of future residents, controlled waters, etc.).

In accordance with the CLR-11 framework, risk is defined as:

'a combination of the probability, or frequency, of occurrence of a defined hazard and the magnitude of the consequence of the occurrence'.

The three essential elements to any risk are defined by CLR-11 as follows:

- A contaminant, or hazard, which is in, on, or under the land and has the potential to cause harm (Source)
- A means by which a receptor can be exposed to, or affected by a contaminant or hazard (Pathway)
- A receptor, i.e. something which could be adversely affected by a contaminant or hazard, such as human health or groundwater (Receptor).

In order for there to be a potential risk, all three of the above elements must be present. If there is a source of contamination and a receptor (for example a resident or site user), then there is only a potential risk if there is a pathway linking the two. Such an active pathway is known as a relevant pollutant linkage. It is possible for the same contaminant to be linked to a receptor via a number of pathways, and hence it is important that all relevant pollutant linkages, to both human health and controlled waters, are separately identified on a site in order that a comprehensive conceptual model can be formed and ultimately a robust remediation strategy designed.

5.1 RISK ASSESSMENT FRAMEWORK (CONTINUED)

Current practice during Generic Quantitative Risk Assessment of land affected by contamination is to use generic soil screening values based on the appropriate proposed end use. These usually comprise risk based Soil Guideline values (SGVs) or Generic Assessment Criteria (GACs) derived by the Environment Agency's Contaminated Land Exposure Assessment Model (CLEA). The SGVs and the supporting technical guidance were developed to in order to assist in the assessment of long term risk to human health from the exposure to contaminated soils.

Revised Statutory Guidance, published in 2012, to support Part 2A of the Environmental Protection Act 1990, introduced a new four category system for classifying land under Part 2A. Category 1 includes land where the level of risk is clearly unacceptable and Category 4 includes land where the level of risk posed is considered to be acceptably low. Under Part 2A, land would be determined as contaminated if it falls within Categories 1 or 2.

The revised Part 2A Statutory Guidance was accompanied by an Impact Assessment that identified a role for new 'Category 4 Screening Levels' (C4SLs) that would provide a simple test for determining when land is suitable for use and definitely not contaminated land. A Policy Companion Document including the C4SLs was published in March 2014 (England) and May 2014 (Wales).

The C4SLs have been based on the CLEA methodology and derived using the CLEA model, with modified toxicological and exposure parameters. To date, C4SLs have been released for six substances (arsenic, cadmium, chromium (VI), lead, benzo(a)pyrene and benzene).

The C4SLs have been derived on the assumption that where they exist, they will be used as generic screening criteria within generic quantitative risk assessment.

Following publication of the C4SLs, Land Quality Management (LQM), in conjunction with the Chartered Institute for Environmental Health (CIEH) released Suitable 4 Use Levels (S4ULs) in January 2015.

The S4ULs have been derived in accordance with UK legislation, and using a modified version of the Environment Agency's CLEA software. As such, the S4ULs are based on the concept of minimal or tolerable risk as described in Human Health Toxicological Assessment of Contaminants in Soil (Science Report SR2, Environment Agency 2009a).

S4ULs have been derived for a wider number of substances.

5.1 RISK ASSESSMENT FRAMEWORK (CONTINUED)

In addition to the existing SGVs, C4SLs and S4ULs, Atkins ATRISK^{soil} also provide a set of Soil Screening Values. These are currently intended to be used in conjunction with SGVs, although they intend to update these values in line with the C4SLs in due course.

We have reviewed all sets of values and intend to use the most appropriate assessment criteria as Tier 1 screening values in the first instance. Where a published C4SL is available, and considered appropriate, this will be used in the first instance.

5.2 CONCEPTUAL MODEL FRAMEWORK

The preliminary stage of the risk assessment process is to develop and define a conceptual site model, based on the desk study and any existing site investigation data. This is used to establish any potential contaminant sources, identify existing and future receptors and assess if there are any potentially active pathways by which a potential risk may be present.

The preliminary conceptual site model will be developed and refined as site specific data is gathered, such as actual ground conditions and chemical data, resulting in a more robust conceptual understanding of the site.

5.3 CRITICAL SENSITIVE RECEPTOR – HUMAN HEALTH

The proposed redevelopment of the site is for a mixture of residential and commercial end use. Therefore, the critical sensitive receptor from a human health perspective is an on-site residential receptor.

In accordance with C4SL and CLEA guidance for a standard mixed residential and commercial scenario, the critical sensitive receptor for a residential end use risk assessment is a female child, with exposure from 0 to 6 years.

The standard mixed residential and commercial end use conceptual model defined by C4SL and CLEA is assumed to be suitable for the purposes of this assessment.

5.4 CRITICAL SENSITIVE RECEPTOR – CONTROLLED WATERS

Based on the proposed redevelopment of the site for a mixed residential and commercial end use, and the findings of the desk study, the critical sensitive receptor from a controlled water perspective is groundwater within the Secondary 'A' Aquifer of the South Wales Middle Coal Measures, at the southern boundary of the site.

5.4 CRITICAL SENSITIVE RECEPTOR – CONTROLLED WATERS (CONTINUED)

By considering groundwater as the critical sensitive receptor for controlled waters, the groundwater/hydrogeological risk assessment will also be protective of the River Taff to the east of the site.

5.5 POTENTIAL CONTAMINANT SOURCES

As identified in the desk study, the extensive historical land uses at the site since the 1800's has resulted in a list of potentially contaminative uses that include the stockpiling of colliery waste and surface workings of the underground mine and later a factory for printing, metal packaging and production of cargo restraints. There is evidence of above ground storage tanks being present on site.

The potential types of contaminants of concern are listed below:

- Metals, semi-metals, and inorganics within the shallow made ground
- Polyaromatic hydrocarbons (PAH) within the shallow made ground
- Polychlorinated biphenyl (PCB) within shallow made ground
- Petroleum Hydrocarbons (VPH/EPH), Volatile Organic Compounds (VOCs) and Semi Volatile Organic Compounds (SVOCs) within the shallow made ground and possible underground storage tanks
- Asbestos within the shallow made ground.

5.6 POTENTIAL EXPOSURE PATHWAYS

Potential exposure pathways for the critical receptors (both human health and controlled waters) are listed below:

- Dermal contact with soil and/or soil derived dust
- Ingestion of soil and/or soil attached to home-grown produce
- Ingestion of home-grown produce
- Inhalation of soil derived dust
- Inhalation of vapours – indoor and outdoor air
- Leaching of contaminants from made ground to groundwater
- Transportation of contaminants within groundwater.

In addition, the following exposure pathways have also been considered:

- Ground gas generation and migration
- Building materials durability.

5.7 SUMMARY OF CONCEPTUAL EXPOSURE MODEL

A preliminary conceptual exposure model has been developed for the site. This is based on the findings of the desk study and historical review and includes all potential sources, pathways and receptors that may be present on site. Those that have been identified as being potentially active require further investigation in the form of sampling and testing of soils and groundwater, followed by appropriate risk assessment.

The preliminary conceptual exposure model will be reviewed and refined following the completion of the site works and laboratory testing.

The preliminary conceptual exposure model is presented below in Table 6.

5.7 SUMMARY OF CONCEPTUAL EXPOSURE MODEL (CONTINUED)

Table 6: Preliminary Conceptual Exposure Model				
Source		Receptor	Pathway	Potentially Active Pathway?
Origin	Contaminant			
Made Ground of unknown origin and historical land uses	Metals, semi-metals, non-metals, PAH, petroleum hydrocarbons, Asbestos	Resident – human health	Dermal Contact with made ground/dust	✓
			Ingestion of soil and/or soil attached to home-grown produce	✓
			Ingestion of home-grown produce	✓
			Inhalation of dust	✓
			Inhalation of vapours – indoor/outdoor	✓
	Metals, semi-metals, inorganics, PAH, petroleum hydrocarbons.	Groundwater quality	Leaching from made ground	✓
	Metals, semi-metals, inorganics, PAH, petroleum hydrocarbons.	Surface water quality	Transportation within groundwater	✓
Above ground and in ground storage tanks	Petroleum hydrocarbons	Resident – human health	Inhalation of Vapours – indoor/outdoor	✓
	Petroleum hydrocarbons	Groundwater quality	Localised spillage	✓
	Petroleum hydrocarbons	Surface water quality	Transportation within groundwater	✓
Made Ground of unknown origin and natural ground	pH and sulphates	Building Materials Durability	Direct contact	✓
Ground Gas – organic, gas producing materials	Methane, carbon dioxide	Human health	Accumulation of gases in confined spaces, and/or migration off site, leading to asphyxiation, or risk of explosion	✓

6.0 ANTICIPATED GROUND CONDITIONS

Based on the geological map data and historical records, the general succession of superficial deposits and underlying solid geology beneath the site is anticipated as follows:

Recent	Potentially widespread made ground associated with demolition of former buildings and raising of site levels.
Quaternary	Alluvium. These deposits are expected to consist of silty clay with layers of sand, peat and gravel.
Quaternary	Glacial Till (far west of the site). These deposits are expected to comprise clay, silt, sands and gravels with varying cobble and boulder content.
Carboniferous	Solid strata of the South Wales Middle Coal Measures, typically comprising coal bearing mudstones and siltstones with seatearths and minor sandstones.

7.0 SITE ASSESSMENT

7.1 ENVIRONMENTAL RISK ASSESSMENT

This assessment takes due regard of Contaminated Land Guidance issued by DEFRA and RICS. The methods used follow a risk based approach with the potential environmental risk assessed qualitatively using the 'source-pathway-receptor' pollutant linkage concept set out in the Environment Protection Act 1990.

Although the risk presented in the following tables and above is descriptive, it is correlated to a numerical chance of occurrence. Therefore, the range and percentage chance of occurrence is given in order that the reader may assess the datum for the risk level. Although the percentage chance is quoted, this is still a subjective evaluation and is not prepared by probabilistic determination. Therefore, the chance of occurrence is a value judgement and not a numerical calculation. The evaluation is a simple qualitative risk assessment, which cannot make a judgement as to the probability of occurrence or the level of contamination that occurs. The latter two aspects require detailed site specific information.

Reference to risk classifications is made according to the following definitions.

Low Risk	It is unlikely that the issue will arise as a liability/cost.
Medium Risk	It is possible that the issue could arise as a liability/cost. Further work is needed to clarify the risk and consequences.
High Risk	It is likely that the issue will arise as a liability/cost.

In consideration of the information gathered and presented in this report the following risk appraisal is considered appropriate.

7.1 ENVIRONMENTAL RISK ASSESSMENT (CONTINUED)

Table 7: Environmental Risk Assessment		
Issue	Risk Category	Comments
Site sensitivity		
Sensitivity of site location	Low	Site is not within a 'groundwater source protection zone' a 'nitrate vulnerable zone', or an 'area of outstanding natural beauty'.
Environmental sensitivity of adjacent land uses	Medium	Site situated adjacent to River Taff, commercial properties and residential dwellings.
Contamination potential		
Potential for significant on-site contamination	Medium	- Potential areas of made ground / disturbed ground associated with the construction / demolition of the former buildings and raising of site levels. - Fuel / tank spillages.
Potential for contaminants migrating off from the site	Medium	
Potential for contaminants migrating onto the site	Low/Medium	
Potential for other environmental issues to give rise to liabilities	Medium	
Environmental Consequences		
Risk of pollution of controlled waters	Medium	- Potential leachate generation within made ground/ disturbed ground. - Potential asbestos in soils. - Potential ground gas generation within made ground.
Risk of damage to future property	Medium	
Risk of harm to human health	Medium/High	
Business Consequences		
Risk of liability for owner	Medium	Former industrial uses may give rise to significant contamination concerns.
Likelihood of designation as Contaminated Land under EPA 1990	Low/Medium	
Risk of site value and/or saleability being affected	Medium/High	
Overall Risk	Medium/High	

7.2 GEOTECHNICAL HAZARDS AND CONSTRAINTS

A summary of commonly occurring geotechnical hazards is given in Table 8, together with an assessment of whether the site may be affected by each of the stated hazards.

Table 8: Summary of Potential Geotechnical Hazards				
Issue (excluding contamination issues)	Hazard Status			Engineering considerations
	Likely to be present on site	Could be present on site	Unlikely to be present and/or affect the site	
Shrinkable clays		✓		Special requirements for foundation and floor design Likely to affect ground engineering and foundation design and construction.
Filled and made ground	✓			
Highly compressible and low bearing capacity soils including peat and soft clay		✓		
Silt rich soils susceptible to rapid loss of strength in wet conditions		✓		
Adverse ground chemistry (including expansive slags, weathering of sulphides to sulphates)		✓		
Combustibility potential		✓		
Solution features			✓	
Evaporite dissolution features and subsidence			✓	
Ground subject to peri-glacial valley cambering with gulls present		✓		
Sudden lateral changes in ground conditions		✓		
Existing sub structures (e.g. foundations and pits)	✓			
Ground subject to vibration			✓	
Underground mining (shallow)	✓			
Mine entries (shafts and adits, bell pits)	✓			
Ground subject to or at risk of coastal or river erosion		✓		
Ground subject to, or at risk from landslips			✓	
High water table (including waterlogged ground)		✓		May affect temporary and permanent works
Rising groundwater table due to diminishing abstraction in urban areas or cessation of deep mining		✓		

7.2 GEOTECHNICAL HAZARDS AND CONSTRAINTS (CONTINUED)

Table 8: Summary of Potential Geotechnical Hazards (CONTINUED)				
Issue (excluding contamination issues)	Hazard Status			Engineering considerations
	Likely to be present on site	Could be present on site	Unlikely to be present and/or affect the site	
Culverted water courses	✓			May constraint development

Together with the geotechnical hazards outlined in Table 8, consideration should also be given the following site constraints:

Site Preparation Considerations:-

Allowances should be made for encountering buried structures associated with the former buildings including foundations, tanks, sumps, flues, basements etc.

Allowances should also be made for encountering active and redundant services and drainage.

Earthworks Considerations:-

Depending of the thickness of made ground, allowances should be made for minor earthworks for the removal or reuse of the made ground in order to create a suitable development surface.

8.0 SITE INVESTIGATION PROPOSALS

If it was planned to re-develop the site, in order to facilitate a detailed technical and financial appraisal, a comprehensive intrusive site investigation would be required. This would enable the foundation and hardstanding design for any proposed development to be developed using specific data on the ground conditions and enable more accurate costings to be made.

Investigation works should give consideration to the following:

- Foundation design
- Excavation stability design
- Remediation requirements
- Groundwater control

In particular, the principal geoenvironmental and geotechnical issues to be addressed are:

- Foundation strata - level, strength, compressibility, and chemical characteristics'
- Presence or absence of shrinkable clays,
- The extent of any ground contamination,
- The potential for ground gas to be present beneath the site.

Investigation techniques to be adopted should include:

- Trial pitting or dynamic windowless sampling and in situ testing to examine the ground conditions, including soil and groundwater, at shallow depths.
- Laboratory chemical testing to determine soil characteristics and properties, and chemistry to include a range of organic and inorganic contaminants.
- Laboratory geotechnical testing to assess the potential degree of volume change of any cohesive materials which might underlie the site and to assess the potential for aggressive ground conditions in accordance with BRE:SD1 (2005).
- Rotary boreholes to investigate the extent of shallow coal seams and underground workings beneath the site and to assess the mining risk and any required remedial works.
- Gas monitoring to check for land gasses

APPENDIX A

ENVIROCHECK REPORT

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

78000054_1_1

Customer Reference:

11722

National Grid Reference:

305460, 204240

Slice:

A

Site Area (Ha):

8.13

Search Buffer (m):

1000

Site Details:

Unit A, Dragon Parc

Abercanaid

MERTHYR TYDFIL

Mid Glamorgan

CF48 1PQ

Client Details:

MR H Pritchard

Integral Geotechnique

Integral House

7 Beddau Way

Castlegate Business Park

Caerphilly

CF83 2AX

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	29
Hazardous Substances	-
Geological	30
Industrial Land Use	51
Sensitive Land Use	56
Data Currency	57
Data Suppliers	62
Useful Contacts	63

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

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Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		3	2	10
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 4	1	4	6	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature		Yes			
Pollution Incidents to Controlled Waters	pg 6	5	3	3	5
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 9		2		
River Quality Biology Sampling Points	pg 9		1		
River Quality Chemistry Sampling Points	pg 10		1		
Substantiated Pollution Incident Register	pg 10		1		
Water Abstractions	pg 11		2	1	(*1)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 11	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 12	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 12	Yes	Yes	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
Detailed River Network Lines	pg 13	Yes	Yes	Yes	n/a
Detailed River Network Offline Drainage	pg 28	Yes	Yes	Yes	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 29				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 30	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 30	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 40	1	6	4	42
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 49	Yes	n/a	n/a	n/a
Mining Instability	pg 49	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 49		Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 49	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 49	Yes	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 50	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 50	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 51	2	8	23	17
Fuel Station Entries	pg 55			2	
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 56			1	
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Hoover Plc Property Type: Domestic Type Electrical Equipment Location: Merthyr Tydfil - Hoover Ltd Pentreb, Pentrebach Authority: Natural Resources Wales Catchment Area: River Taff Reference: Ae2022001 Permit Version: 2 Effective Date: 21st January 1985 Issued Date: 21st January 1985 Revocation Date: 24th February 1993 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: River Taff Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	60	2	305640 204130
1	Discharge Consents Operator: Hoover Plc Property Type: Domestic Type Electrical Equipment Location: Merthyr Tydfil - Hoover Ltd Pentreb, Pentrebach Authority: Natural Resources Wales Catchment Area: River Taff Reference: Ae2022001 Permit Version: 1 Effective Date: 20th February 1964 Issued Date: 20th February 1964 Revocation Date: 20th January 1985 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: River Taff Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	60	2	305640 204130
2	Discharge Consents Operator: Davies D Property Type: Domestic Property (Multiple) Location: Behind 7-12 Anthony Grove Merthyr, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0073701 Permit Version: 1 Effective Date: 29th June 1988 Issued Date: 29th June 1988 Revocation Date: 31st March 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Soak Away Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	140	2	305300 204000
3	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Willow Gas Works Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0091001 Permit Version: 2 Effective Date: 21st December 2001 Issued Date: 20th December 2001 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Taff Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18SW (N)	461	2	305370 204950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Celtic Technologies Limited Property Type: Civil Engineering Location: Groundwater Remediation Treatment @, Former Willows Gasworks, The Willows, Abercanaid Industrial Estate, Merthyr Tydfil, Cf48 1yh Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprnb3735aw Permit Version: 1 Effective Date: 15th April 2013 Issued Date: 15th April 2013 Revocation Date: 23rd December 2013 Discharge Type: Groundwater - Borehole Discharge: Into Land Environment: Receiving Water: Groundwater Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18SW (N)	500	2	305285 204973
5	Discharge Consents Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Area C (Final Effluent Lagoon) Graw, Graweth Farm Occs Merthyr Tydfi, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0267902 Permit Version: 2 Effective Date: 20th December 1997 Issued Date: 19th December 1997 Revocation Date: 6th January 1999 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Trib Of The River Taff Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SE (E)	629	2	306193 204278
5	Discharge Consents Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Area C (Final Effluent Lagoon) Graw, Graweth Farm Occs Merthyr Tydfi, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0267901 Permit Version: 2 Effective Date: 22nd November 1997 Issued Date: 21st November 1997 Revocation Date: 6th January 1999 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Trib Of River Taff Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SE (E)	629	2	306193 204278
5	Discharge Consents Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Area C (Final Effluent Lagoon) Graw, Graweth Farm Occs Merthyr Tydfi, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0268001 Permit Version: 2 Effective Date: 22nd November 1997 Issued Date: 21st November 1997 Revocation Date: 6th January 1999 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Trib Of River Taff Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SE (E)	629	2	306193 204278

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Area C (Final Effluent Lagoon) Graw, Graweth Farm Occs Merthyr Tydfi, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0267901 Permit Version: 1 Effective Date: 20th September 1996 Issued Date: 20th September 1996 Revocation Date: 21st November 1997 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Trib Of River Taff Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A14SE (E)	629	2	306193 204278
5	Discharge Consents Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Area C (Final Effluent Lagoon) Graw, Graweth Farm Occs Merthyr Tydfi, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0267801 Permit Version: 1 Effective Date: 20th September 1996 Issued Date: 20th September 1996 Revocation Date: 7th October 1997 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Tributary Of The River Taff Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A14SE (E)	629	2	306193 204278
5	Discharge Consents Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Area C (Final Effluent Lagoon) Graw, Graweth Farm Occs Merthyr Tydfi, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0268001 Permit Version: 1 Effective Date: 20th September 1996 Issued Date: 20th September 1996 Revocation Date: 21st November 1997 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Trib Of River Taff Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A14SE (E)	629	2	306193 204278
5	Discharge Consents Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Area C (Final Effluent Lagoon) Graw, Graweth Farm Occs Merthyr Tydfi, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0267802 Permit Version: 1 Effective Date: 20th September 1996 Issued Date: 20th September 1996 Revocation Date: 7th October 1997 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Tributary Of The River Taff Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A14SE (E)	629	2	306193 204278

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Celtic Energy Ltd Property Type: Coal Extraction, Surface Location: Area C (Final Effluent Lagoon) Graw, Graweth Farm Occs Merthyr Tydfil, Merthyr Tydfil Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0267902 Permit Version: 1 Effective Date: 20th September 1996 Issued Date: 20th September 1996 Revocation Date: 19th December 1997 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Trib Of The River Taff Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A14SE (E)	629	2	306193 204278
6	Discharge Consents Operator: Delves Solid Fuels (Sw) Ltd Property Type: Undefined Or Other Location: Pentrebach Tip - Point Y Authority: Natural Resources Wales Catchment Area: River Taff Reference: Ag0004102 Permit Version: 1 Effective Date: 25th November 1980 Issued Date: 25th November 1980 Revocation Date: 23rd September 1992 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Unnamed Watercourse Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A14SE (E)	723	2	306250 204400
7	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Merthyr Tydfil - Willows Gas W Authority: Natural Resources Wales Catchment Area: River Taff Reference: AN0091001 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 20th December 2001 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Taff Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A18NW (N)	861	2	305360 205350
8	Local Authority Pollution Prevention and Controls Name: Ardagh Group Location: Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PPC/PG6/7(04) Dated: 1st June 1997 Process Type: Local Authority Pollution Prevention and Control Description: PG6/7 Printing and coating of metal packaging Status: Application exempt from APC Positional Accuracy: Manually positioned to the address or location	A13SW (W)	0	3	305369 204266
9	Local Authority Pollution Prevention and Controls Name: Amnitech Ltd Location: Abercanaid, CF48 1UX Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/45 Surface cleaning Status: Application Not Yet Authorised Positional Accuracy: Manually positioned to the address or location	A13SW (NW)	119	3	305280 204578

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Local Authority Pollution Prevention and Controls Name: Hoovers Ltd Location: Pentebach Road, Plymouth Street, MERTHYR TYDFIL, CF48 4TU Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PPC/PG6/31(96)02/02 Dated: 1st November 1997 Process Type: Local Authority Pollution Prevention and Control Description: PG6/31 Powder coating processes (including sheradizing) Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8NE (E)	164	3	305741 204157
10	Local Authority Pollution Prevention and Controls Name: Hoover Ltd Location: Pentrebach, MERTHYR TYDFIL, Mid Glamorgan, CF48 4TU Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PG 6/23(92)-1 Dated: 1st February 1994 Process Type: Local Authority Air Pollution Control Description: PG6/23 Coating of metal and plastic Status: Authorisation revokedRevoked Positional Accuracy: Automatically positioned to the address	A8NE (E)	164	3	305740 204159
10	Local Authority Pollution Prevention and Controls Name: Hoover Ltd Location: Pentrebach, MERTHYR TYDFIL, Mid Glamorgan, CF48 4TU Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PPC/PG6/31(96)02/02 Dated: 1st February 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG6/31 Powder coating processes (including sheradizing) Status: Authorisation revokedRevoked Positional Accuracy: Automatically positioned to the address	A8NE (E)	164	3	305740 204158
11	Local Authority Pollution Prevention and Controls Name: R-Tek Ltd Location: Unit 1 Triangle Business Park, Pentrebach, MERTHYR TYDFIL, Mid Glamorgan, CF48 4TQ Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: Pg 6/32(97)-1 Dated: 1st March 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG6/32 Adhesive coating Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location	A13SE (NE)	262	3	305770 204426
11	Local Authority Pollution Prevention and Controls Name: Glamorgan Paint Stovers Location: Unit 7, Triangle Business Park, Pentrebach, MERTHYR TYDFIL, Mid Glamorgan, CF48 4BE Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PPC/PG6/31(96)02 Dated: 12th June 1997 Process Type: Local Authority Pollution Prevention and Control Description: PG6/31 Powder coating processes (including sheradizing) Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location	A13SE (NE)	264	3	305778 204403
12	Local Authority Pollution Prevention and Controls Name: Merthyr Institute For The Blind Location: Unit F, Maesgwynne Industrial Estate, Cefn Coed, MERTHYR TYDFIL, Mid Glamorgan, CF48 2SD Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PPC/PG6/2(04)1 Dated: 1st July 1995 Process Type: Local Authority Pollution Prevention and Control Description: PG6/2 Manufacture of timber and wood-based products Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A9NW (E)	337	3	305920 204173
12	Local Authority Pollution Prevention and Controls Name: Merthyr Institute For The Blind Location: Unit F Maesgwynne Industrial Estate, Merthyr Tydfil Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PPC/PG6/2(04)3 Dated: 4th May 1995 Process Type: Local Authority Pollution Prevention and Control Description: PG6/2 Manufacture of timber and wood-based products Status: Permitted Positional Accuracy: Located by supplier to within 10m	A9NW (E)	337	3	305920 204173

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Local Authority Pollution Prevention and Controls Name: Tbs (South Wales) Ltd Location: Triumph Works, The Willows, MERTHYR TYDFIL, Mid Glamorgan, CF48 1YH Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: Part B process (no specific reference) Status: Application exempt from APC Positional Accuracy: Automatically positioned to the address	A13NW (NW)	437	3	305190 204883
14	Local Authority Pollution Prevention and Controls Name: Evans Halshaw Location: Pentrebach Road, MERTHYR TYDFIL, Mid Glamorgan, CF48 1YA Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PPC/PG6/34(04) Dated: 1st June 1995 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles Status: Permitted Positional Accuracy: Manually positioned to the address or location	A13NE (N)	440	3	305511 204922
15	Local Authority Pollution Prevention and Controls Name: P & R Motors Ltd Location: New Road, Pentrebach, MERTHYR TYDFIL, Mid Glamorgan, CF48 4UB Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PPC/PG6/34(04) Dated: 4th December 1996 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles Status: Permitted Positional Accuracy: Located by supplier to within 10m	A4NE (SE)	794	3	306215 203493
16	Local Authority Pollution Prevention and Controls Name: Celtic Energy Location: Graweth Farm Opencast Site, Pentrebach, MERTHYR TYDFIL, Mid Glamorgan, CF48 Authority: Merthyr Tydfil County Borough Council, Environmental Health Department Permit Reference: PG 3/5(95)-8 Dated: 12th April 1997 Process Type: Local Authority Pollution Prevention and Control Description: PG3/5 Coal, coke and coal product processes Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A10NW (E)	966	3	306569 204189
	Nearest Surface Water Feature	A8NE (SE)	0	-	305538 204097
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Hoovers Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 15th August 1994 Incident Reference: 21230 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (N)	0	4	305505 204395
17	Pollution Incidents to Controlled Waters Property Type: Road Location: ABERCANAID Authority: Environment Agency, Welsh Region Pollutant: Cement/Mortar Note: Poor Operational Practise Incident Date: 5th August 1994 Incident Reference: 21251 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A13SE (N)	0	4	305500 204400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Pollution Incidents to Controlled Waters Property Type: Road Location: Abercanaid Park Authority: Environment Agency, Welsh Region Pollutant: Cement/Mortar Note: Poor Operational Practise Incident Date: 5th August 1994 Incident Reference: 21251 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A13SE (N)	0	4	305500 204395
17	Pollution Incidents to Controlled Waters Property Type: Road Location: Pentrbach Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Poor Operational Practise Incident Date: 5th August 1994 Incident Reference: 21251 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (N)	0	4	305505 204400
17	Pollution Incidents to Controlled Waters Property Type: Road Location: Pentrbach Authority: Environment Agency, Welsh Region Pollutant: Cement/Mortar Note: Poor Operational Practise Incident Date: 5th August 1994 Incident Reference: 21251 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A13SE (N)	0	4	305505 204405
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Below Merthyr, 100 Yards Below, Brandy Bridge Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 12th October 1994 Incident Reference: 21322 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	136	4	305500 204600
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Upper Abercanaid Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 5th February 1997 Incident Reference: 31272 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (NW)	138	4	305200 204400
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 18th September 1996 Incident Reference: 30098 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	153	4	305300 203980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	Pollution Incidents to Controlled Waters Property Type: Warehouses Location: College, Crackers, Triangle Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Vandalism Incident Date: 26th September 1995 Incident Reference: 26293 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	382	4	306000 204000
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Below Pentreback Railway Station Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Neglect Incident Date: 9th May 1991 Incident Reference: 389 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Bypass Of Treatment Facilities Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	466	4	306000 203750
23	Pollution Incidents to Controlled Waters Property Type: Road Location: Trevethicks Tunnel Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Poor Operational Practise Incident Date: 17th April 1991 Incident Reference: 305 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (E)	482	4	306100 204000
24	Pollution Incidents to Controlled Waters Property Type: Road Location: Behind Hoovers Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Accidental Spillage/Leakage Incident Date: 29th July 1991 Incident Reference: 1182 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Burst Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	566	4	306000 204700
25	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: School Authority: Environment Agency, Welsh Region Pollutant: Foam/Soap Suds Note: Accidental Spillage/Leakage Incident Date: 15th December 1994 Incident Reference: 22129 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (E)	582	4	306200 204000
26	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Opposite Fire Station Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 18th August 1995 Incident Reference: 25643 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	697	4	304600 204350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Abercanaid Subway, ABERCANAID Authority: Environment Agency, Welsh Region Pollutant: Coal Solids Note: Not Supplied Incident Date: 20th July 1995 Incident Reference: 25009 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A4SW (SE)	901	4	306000 203200
28	Pollution Incidents to Controlled Waters Property Type: Not Given Location: At Footbridge, Near The Weir Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 28th May 1997 Incident Reference: 32500 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	935	4	305200 205400
	River Quality Name: Taff GQA Grade: River Quality A Reach: Conf.Nant Cannaid-Nant Rhyd Y Car Estimated Distance (km): 1.5 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A13SE (E)	77	4	305622 204293
	River Quality Name: Taff GQA Grade: River Quality A Reach: Conf.Nant Y Maen-Nant Cannaid Estimated Distance (km): 4.8 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A8NE (SE)	93	4	305709 204001
29	River Quality Biology Sampling Points Name: Taff Reach: Confluence Nant Y Maen To Nant Cannaid Estimated Distance: 4.80 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2002 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2003 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2009 GQA Grade: River Quality Biology GQA Grade B - Good	A8NE (SE)	15	4	305600 204000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	River Quality Chemistry Sampling Points Name: Taff Reach: Confluence Nant Cannaid To Nant Rhyd Y Car Estimated Distance: 1.50 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A13NE (N)	152	4	305461 204637
31	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 4th November 2002 Incident Reference: 118733 Water Impact: Category 3 - Minor Incident Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Firefighting Run-Off	A9NW (E)	203	2	305805 204102

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Water Abstractions Operator: Hoover Plc Licence Number: 21/57/22/0025 Permit Version: 100 Location: Nant Canaid At Glyn-Dyrys Authority: Natural Resources Wales Abstraction: Machinery And Electronics: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Jan to 31-Dec Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	221	2	305160 204615
32	Water Abstractions Operator: Hoover Plc Licence Number: 21/57/22/0025 Permit Version: 100 Location: Nant Canaid At Glyn-Dyrys Authority: Natural Resources Wales Abstraction: Machinery And Electronics: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Nant Canaid Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	225	2	305160 204620
33	Water Abstractions Operator: TBS (South Wales) Ltd Licence Number: 21/57/22/0035 Permit Version: 100 Location: Borehole At Tbs (South Wales) Ltd Authority: Environment Agency, Welsh Region Abstraction: Other Industrial/Commercial/Public Services: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Borehole - Depth 93 M Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th October 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	260	4	305190 204690
	Water Abstractions Operator: P Forker Contractors Limited Licence Number: 21/57/22/0037 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: River Daily Rate (m3): 300 Yearly Rate (m3): 15000 Details: River Taff Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NW)	1701	4	304700 206050
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 36 Mid Glamorgan Scale: 1:100,000	A8NE (E)	0	4	305458 204244

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 36 Mid Glamorgan Scale: 1:100,000	A8NW (SW)	0	4	305356 204184
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 36 Mid Glamorgan Scale: 1:100,000	A8NW (S)	0	4	305420 204097
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A8NE (E)	0	5	305458 204244
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A8NW (W)	0	5	305430 204237
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A8NE (E)	0	5	305458 204244
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A8NE (E)	0	2	305529 204245
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A8NE (E)	0	2	305528 204251
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NE (E)	0	2	305458 204244
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13SE (E)	16	2	305562 204262
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (N)	98	2	305454 204583
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	123	2	305452 204610
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	189	2	305431 204680
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	192	2	305430 204683
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	239	2	305420 204730
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NW (N)	240	2	305420 204731
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NE (E)	0	2	305458 204244

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	187	2	305320 204660
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
34	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (N)	0	4	305457 204254
35	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NE (SE)	2	4	305603 204013
36	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NE (SE)	2	4	305603 204013
37	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (W)	3	4	305291 204243
38	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (W)	3	4	305291 204243

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: TAFF Name: Water Course: 930 Reference:	A13SE (E)	5	4	305553 204259
40	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: TAFF Name: Water Course: 930 Reference:	A8NE (SE)	8	4	305626 204014
41	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (E)	12	4	305553 204260
42	Detailed River Network Lines River Type: Primary River River Name: River Taff (Afon Taf) Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: TAFF Name: Water Course: 930 Reference:	A13SE (E)	12	4	305552 204265
43	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (SW)	43	4	305361 204075
44	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NE (SE)	45	4	305630 203973

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Detailed River Network Lines River Type: Primary River River Name: River Taff Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: TAFF Name: Water Course: 930 Reference:	A8NE (SE)	48	4	305648 203979
46	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NE (S)	49	4	305660 203965
47	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (SW)	49	4	305299 204164
48	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (W)	57	4	305233 204253
49	Detailed River Network Lines River Type: Secondary River River Name: Cannaid Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (W)	68	4	305223 204237
50	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (W)	68	4	305223 204237

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (W)	73	4	305223 204221
52	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NE (S)	78	4	305550 203938
53	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: TAFF Name: Water Course: 930 Reference:	A13SE (N)	84	4	305486 204542
54	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (N)	84	4	305486 204542
55	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (N)	107	4	305499 204563
56	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (W)	112	4	305215 204332

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (W)	112	4	305215 204332
58	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SE (S)	128	4	305516 203895
59	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (SW)	128	4	305293 204030
60	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SE (S)	129	4	305517 203894
61	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SE (S)	129	4	305518 203893
62	Detailed River Network Lines River Type: Secondary River River Name: Nant Graig Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SE (S)	129	4	305517 203894

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (SW)	161	4	305270 204006
64	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (SW)	173	4	305291 203961
65	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (NW)	182	4	305147 204526
66	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NW (NW)	220	4	305169 204623
67	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NW (NW)	220	4	305169 204623
68	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	229	4	305063 204279

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (NE)	252	4	305692 204601
70	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (S)	262	4	305317 203827
71	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A7NE (W)	283	4	305007 204237
72	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NW (NW)	285	4	305159 204700
73	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (S)	289	4	305363 203772
74	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (N)	291	4	305615 204706

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A7NE (W)	297	4	305027 204097
76	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A7NE (W)	299	4	305003 204163
77	Detailed River Network Lines River Type: Secondary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	300	4	304993 204291
78	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	300	4	304999 204323
79	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12NE (NW)	304	4	305084 204652
80	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	310	4	304983 204293

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (S)	317	4	305355 203746
82	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (NE)	341	4	305851 204426
83	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (NE)	343	4	305853 204428
84	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (NE)	343	4	305853 204428
85	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	344	4	304948 204288
86	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (SW)	351	4	305251 203764

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (N)	358	4	305663 204758
88	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (N)	358	4	305663 204758
89	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12NE (NW)	369	4	304999 204641
90	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12NE (NW)	372	4	304996 204640
91	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (NW)	372	4	304956 204557
92	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (S)	373	4	305347 203689

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A7NE (W)	373	4	304974 204051
94	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (NW)	380	4	304956 204557
95	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A7NE (SW)	380	4	304985 204022
96	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A7NE (SW)	383	4	305007 203987
97	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	385	4	304905 204261
98	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (NE)	389	4	305886 204486

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A7NE (W)	389	4	304905 204189
100	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (S)	394	4	305335 203671
101	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (S)	397	4	305330 203670
102	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (E)	398	4	305921 204380
103	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (E)	398	4	305921 204380
104	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (S)	402	4	305350 203658

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	405	4	304887 204290
106	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	413	4	304879 204290
107	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (NW)	428	4	304909 204565
108	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (NW)	428	4	304909 204565
109	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (S)	433	4	305307 203639
110	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8SW (S)	433	4	305307 203639

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	Detailed River Network Lines River Type: Tertiary River River Name: Nant Cannaid Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	449	4	304844 204302
112	Detailed River Network Lines River Type: Secondary River River Name: Cwm-blacs Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	451	4	305365 204939
113	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: TAFF Name: Water Course: 930 Reference:	A18SW (N)	451	4	305365 204939
114	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (NW)	467	4	304868 204561
115	Detailed River Network Lines River Type: Tertiary River River Name: Cwm-blacs Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	468	4	305403 204959
116	Detailed River Network Lines River Type: Secondary River River Name: Cwm-blacs Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	472	4	305411 204963

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (NE)	473	4	305969 204500
118	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (NW)	482	4	304857 204584
119	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (NW)	482	4	304857 204584
120	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	482	4	305440 204973
121	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (NW)	484	4	304856 204584
122	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D008 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (NE)	489	4	305994 204467

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D008	A8NE (SE)	0	4	305538 204097
124	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D008	A8NE (SE)	0	4	305535 204094
125	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D008	A13NW (NW)	183	4	305266 204642
126	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D008	A13NE (N)	311	4	305594 204749
127	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D008	A7NE (SW)	324	4	305029 204057
128	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D008	A9SW (SE)	463	4	306018 203783
129	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D008	A12NE (NW)	493	4	304976 204817

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Merthyr Tydfil County Borough Council - Has supplied landfill data		0	3	305458 204244
130	Registered Landfill Sites Licence Holder: John Jones (Excavation) Licence Reference: 5 Site Location: A470 / Pentrebach Link, Abercanaid, Merthyr Tydfil, Mid Glamorgan Licence Easting: 306050 Licence Northing: 203350 Operator Location: Norton Hse. Newby Road.Hazel Grove, Stockport, Cheshire Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st July 1984 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Excavated Natural Materials \$	A4NW (SE)	794	4	306050 203350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A8NE (E)	0	5	305458 204244
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (E)	0	5	305458 204244
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NW (W)	0	5	305431 204237
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	11	5	305545 204000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NE (S)	19	5	305458 204000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (N)	83	5	305494 204561
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	216	5	305804 204367

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	242	5	305180 204660
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A13SE (NE)	254	5	305742 204543
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (N)	256	5	305623 204664
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (N)	272	5	305633 204677
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NE (W)	290	5	305000 204244
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (NE)	320	5	305799 204565

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	326	5	305723 204678
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A13NE (NE)	327	5	305738 204666
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	330	5	305777 204634
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A13NE (N)	355	5	305558 204818
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NE (SW)	380	5	305000 204000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (E)	382	5	306000 204244

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	382	5	306000 204000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NE (NW)	397	5	305000 204695
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (E)	438	5	306000 204245
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A7NE (SW)	471	5	304945 203922
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (E)	482	5	306000 204410
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9SW (SE)	499	5	306000 203695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18SE (N)	509	5	305458 205000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18SW (N)	510	5	305379 205000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	517	5	305509 205000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A14NW (NE)	597	5	306079 204592
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (W)	598	5	304746 204000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SE (NW)	601	5	305047 205000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A9NE (E)	609	5	306214 204168
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SE (NW)	624	5	305000 205000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SW)	649	5	304878 203708
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SW (NE)	668	5	305862 205000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A17SE (NW)	681	5	305000 205066
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A9NE (E)	716	5	306334 204000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NE (E)	719	5	306337 203993
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A2NE (SW)	725	5	305068 203387
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SW (NE)	752	5	306000 205000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SW (SW)	764	5	304777 203654
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A2NE (SW)	788	5	305000 203406
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A2NE (SW)	792	5	304888 203489

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A2NE (SW)	794	5	305021 203378
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	813	5	304477 204273
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18NW (N)	842	5	305121 205285
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A17SW (NW)	848	5	304665 205000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NW (W)	849	5	304478 204000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	866	5	306460 204291

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (N)	874	5	305866 205242
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A10SW (SE)	896	5	306477 203760
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A4SW (SE)	896	5	305937 203179
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A10NW (E)	914	5	306532 204000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A4SW (SE)	915	5	306000 203185
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	933	5	305988 205234

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	940	5	306000 205235
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (NE)	947	5	305936 205285
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A10SW (SE)	950	5	306514 203700
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	957	5	306000 205255
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A2SE (S)	966	5	305073 203156
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	971	5	306183 205129

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11SE (W)	981	5	304311 204306
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11NE (NW)	981	5	304387 204752
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A2NW (SW)	982	5	304552 203543
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (NE)	983	5	306000 205286
131	BGS Recorded Mineral Sites Site Name: Upper Aber-Canaid Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125668 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (NW)	0	5	305411 204287
132	BGS Recorded Mineral Sites Site Name: Upper Aber-Canaid Pit Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125666 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (S)	1	5	305415 204080

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	BGS Recorded Mineral Sites Site Name: Lucy No 4 Location: , Merthyr Tydfil, Merthyr Tydfil Source: British Geological Survey, National Geoscience Information Service Reference: 188623 Type: Underground Status: Ceased Operator: Ncb South Wales Area Operator Location: Ncb South Wales Area, Coal House, Ty-Glas Avenue, Llanishan, Cardiff, Cr6 5ys Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (W)	90	5	305220 204191
133	BGS Recorded Mineral Sites Site Name: Upper Aber-Canaid Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125662 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (W)	134	5	305190 204157
134	BGS Recorded Mineral Sites Site Name: Upper Aber-Canaid Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125663 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	124	5	305250 204107
135	BGS Recorded Mineral Sites Site Name: Graig Pit Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125667 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SW (S)	163	5	305399 203894
136	BGS Recorded Mineral Sites Site Name: Upper Aber-Canaid Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125661 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SE (W)	191	5	305112 204318
137	BGS Recorded Mineral Sites Site Name: Pen-Cae-Bach Cottage Location: , Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125681 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SE (NE)	258	5	305727 204557

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	BGS Recorded Mineral Sites Site Name: Penyard Level Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90890 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	341	5	305700 204715
139	BGS Recorded Mineral Sites Site Name: Pen-Cae-Bach Cottage Location: , Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125683 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SW (NE)	361	5	305843 204544
140	BGS Recorded Mineral Sites Site Name: Upper Aber-Canaid Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125652 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7NE (W)	477	5	304813 204247
141	BGS Recorded Mineral Sites Site Name: Graig Location: , Abercanaid, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125658 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	517	5	305065 203701
142	BGS Recorded Mineral Sites Site Name: Graig Cottage Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125655 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	525	5	304947 203835
143	BGS Recorded Mineral Sites Site Name: Gethin Pit Location: , Abercanaid, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125677 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A3NE (S)	532	5	305693 203490

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	BGS Recorded Mineral Sites Site Name: Upper Aber-Canaid Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125651 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7NE (W)	545	5	304800 204010
145	BGS Recorded Mineral Sites Site Name: Ellis Pit (Disused) Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125691 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SW (E)	551	5	306061 204453
146	BGS Recorded Mineral Sites Site Name: Clyn-Mil Drift Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90889 Type: Underground Status: Ceased Operator: Hill'S Plymouth Co Ltd Operator Location: Hill'S Plymouth Co Ltd, Plymouth House, Merthyr Tydfil, Glamorgan Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	560	5	305630 205010
146	BGS Recorded Mineral Sites Site Name: Clyn-Mil Drift Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90888 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	576	5	305670 205010
146	BGS Recorded Mineral Sites Site Name: Prospect House Location: , Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125680 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (N)	600	5	305702 205021
147	BGS Recorded Mineral Sites Site Name: Clyn-Mil Pit No 1 Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90883 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	561	5	305920 204810

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	BGS Recorded Mineral Sites Site Name: Clyn-Mil Pit No 1 Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90883 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	561	5	305920 204810
148	BGS Recorded Mineral Sites Site Name: Pen-Yard House Location: , Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125687 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	667	5	306029 204843
149	BGS Recorded Mineral Sites Site Name: Ellis Pit Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90885 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	721	5	306225 204495
150	BGS Recorded Mineral Sites Site Name: Graig Pit Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125698 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9NE (E)	777	5	306374 204202
151	BGS Recorded Mineral Sites Site Name: Garig Location: , Abercanaid, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125654 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A2NE (SW)	780	5	304924 203473
152	BGS Recorded Mineral Sites Site Name: Glyn-Dyrys Pit Location: , Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125645 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NW (NW)	782	5	304579 204700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	BGS Recorded Mineral Sites Site Name: Cwm Blacks Workings Location: Cwm Blacks, Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90892 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A19SW (N)	785	5	305805 205175
153	BGS Recorded Mineral Sites Site Name: Cwm Blacks Workings Location: Cwm Blacks, Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90892 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (N)	785	5	305805 205175
154	BGS Recorded Mineral Sites Site Name: Waunwylt Colliery Location: , Abercanaid, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125656 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A2NE (SW)	788	5	304995 203409
155	BGS Recorded Mineral Sites Site Name: Waunwylt Location: , Abercanaid, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125644 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7NW (W)	796	5	304551 203953
156	BGS Recorded Mineral Sites Site Name: The Willows Location: , Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125647 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	812	5	304715 205003
157	BGS Recorded Mineral Sites Site Name: Gethin Pin Location: , Abercanaid, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125692 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A4NW (SE)	813	5	306074 203343

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	BGS Recorded Mineral Sites Site Name: The Land At Graig Gethin Location: , Graig Gethin, Abercanaid, Merthyr Tydfil, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 6102 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 100m	A3SE (S)	820	5	305700 203200
158	BGS Recorded Mineral Sites Site Name: The Land Adj To Graig Gethin Location: , Graig Gethin, Abercanaid, Merthyr Tydfil, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 6104 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 100m	A3SE (S)	820	5	305700 203200
159	BGS Recorded Mineral Sites Site Name: Graig Gethin Location: , Abercanaid, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125670 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A3SE (S)	827	5	305479 203190
160	BGS Recorded Mineral Sites Site Name: Clyn-Mil Pit No 2 Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90884 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (NE)	838	5	306270 204765
160	BGS Recorded Mineral Sites Site Name: Clyn-Mil Pit No 2 Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90884 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A14NE (NE)	838	5	306270 204765
161	BGS Recorded Mineral Sites Site Name: Lower Colliers Row Tips Location: Brug Farm, Abercanaid, Merthyr Tydfil, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 6114 Type: Tip Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Coal Measures Group Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	844	5	304600 204900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	BGS Recorded Mineral Sites Site Name: Cwm Blacks Workings Location: Cwm Blacks, Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90893 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (N)	848	5	305835 205230
162	BGS Recorded Mineral Sites Site Name: Cwm Blacks Workings Location: Cwm Blacks, Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90893 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A19SW (N)	848	5	305835 205230
162	BGS Recorded Mineral Sites Site Name: Cwm Blacks Level Location: Cwm Blacks, Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90891 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (N)	891	5	305870 205260
163	BGS Recorded Mineral Sites Site Name: Waunwyllt Location: , Abercanaid, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125643 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7NW (W)	855	5	304465 204025
164	BGS Recorded Mineral Sites Site Name: Wern-Las Level Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125700 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SE (E)	858	5	306411 204351
165	BGS Recorded Mineral Sites Site Name: Graig Pit No. 1 Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125705 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A10NW (E)	899	5	306507 204153

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	BGS Recorded Mineral Sites Site Name: Merthyr Common Coal Level Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 90919 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	906	5	305985 205205
167	BGS Recorded Mineral Sites Site Name: Pentrebach Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125707 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A10SW (E)	924	5	306533 203888
168	BGS Recorded Mineral Sites Site Name: Graig Pit Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125710 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A10NW (E)	948	5	306566 203998
169	BGS Recorded Mineral Sites Site Name: Wern-Las House Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125703 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Iron Ore - Ironstone Positional Accuracy: Located by supplier to within 10m	A15SW (E)	957	5	306496 204404
170	BGS Recorded Mineral Sites Site Name: Pen-Cae Location: , Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125638 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A11NE (W)	958	5	304384 204646
171	BGS Recorded Mineral Sites Site Name: Pen-Cae Location: , Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125641 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A11NE (NW)	972	5	304404 204777

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	BGS Recorded Mineral Sites Site Name: Graig Gethin Location: , Abercanaid, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125664 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Upper Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A3SW (S)	989	5	305286 203066
173	BGS Recorded Mineral Sites Site Name: Graig Pit No. 2 Location: , Pentrebach, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125712 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A10NW (E)	992	5	306602 204142
174	BGS Recorded Mineral Sites Site Name: Cwm Pit Location: , Abercanaid, Merthyr Tydfil, Mid Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 125634 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: South Wales Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A11SE (W)	994	5	304297 204289
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A8NE (E)	0	6	305458 204244
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A8NE (E)	0	-	305458 204244
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	83	5	305494 204561
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NE (E)	0	5	305458 204244
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (W)	0	5	305431 204237
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A14SW (E)	216	5	305804 204367
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	5	305533 204255
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	5	305414 204264

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	0	5	305410 204181
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (E)	0	5	305458 204244
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	18	5	305556 204274
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A14SW (E)	221	5	305804 204367
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NE (E)	0	5	305458 204244
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (SE)	0	5	305576 204070
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (E)	0	5	305458 204244
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	221	5	305727 204506
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (E)	0	5	305458 204244
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	5	305533 204255
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	18	5	305556 204274
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A14SW (E)	221	5	305804 204367
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (E)	0	5	305458 204244
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A8NE (E)	0	5	305458 204244
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A8NE (E)	0	5	305458 204244

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
175	Contemporary Trade Directory Entries Name: Ardagh Group Location: Unit A, Dragon Parc, Abercanaid, Merthyr Tydfil, Mid Glamorgan, CF48 1PQ Classification: Printed Circuit Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (W)	0	-	305360 204219
176	Contemporary Trade Directory Entries Name: Load Lok Ltd Location: Unit B, Abercanaid Industrial Estate, Merthyr Tydfil, Mid Glamorgan, CF48 1YF Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	0	-	305464 204213
177	Contemporary Trade Directory Entries Name: Amnitech Location: Abercanaid, Merthyr Tydfil, Mid Glamorgan, CF48 1UX Classification: Hose, Tubing & Fittings Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (NW)	119	-	305280 204578
178	Contemporary Trade Directory Entries Name: Cellar Services Location: New Bungalow, Abercanaid, Merthyr Tydfil, Mid Glamorgan, CF48 1YS Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8NW (SW)	157	-	305312 203962
179	Contemporary Trade Directory Entries Name: Marshalls Caravans Location: The Marshalls, Abercanaid, Merthyr Tydfil, Mid Glamorgan, CF48 1YL Classification: Caravan Dealers & Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	158	-	305150 204321
180	Contemporary Trade Directory Entries Name: Hoover Service Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4TU Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (E)	164	-	305740 204159
180	Contemporary Trade Directory Entries Name: C M Downton Ltd Location: Dragon Parc, Abercanaid, Merthyr Tydfil, Mid Glamorgan, CF48 1PQ Classification: Distribution Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NE (E)	164	-	305740 204158
180	Contemporary Trade Directory Entries Name: Hoover European Appliance Group Location: Pentrebach, MERTHYR TYDFIL, Mid Glamorgan, CF48 4TU Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (E)	164	-	305740 204159
181	Contemporary Trade Directory Entries Name: Wynrain Cottage Croft Location: 2, River Row, Abercanaid, Merthyr Tydfil, Mid Glamorgan, CF48 1UJ Classification: Garden Ornament Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (SE)	241	-	305711 203794
182	Contemporary Trade Directory Entries Name: Usc (Europe) Ltd Location: Dragon Parc, Abercanaid, Merthyr Tydfil, Mid Glamorgan, CF48 1PQ Classification: Can Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NW (E)	241	-	305798 204225
182	Contemporary Trade Directory Entries Name: Impress Location: Dragon Parc, Abercanaid, Merthyr Tydfil, Mid Glamorgan, CF48 1PQ Classification: Aerosols Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NW (E)	273	-	305825 204248

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
182	Contemporary Trade Directory Entries Name: Usc (Europe) Location: Dragon Parc, Abercanaid, Merthyr Tydfil, Mid Glamorgan, CF48 1PQ Classification: Aerosols Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NW (E)	278	-	305830 204251
183	Contemporary Trade Directory Entries Name: Galbox Location: Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4TU Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NW (E)	253	-	305836 204154
184	Contemporary Trade Directory Entries Name: R-Tek Ltd Location: Unit 1/3, Triangle Business Park, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4TQ Classification: Car Component Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (NE)	262	-	305770 204427
185	Contemporary Trade Directory Entries Name: Southern Vauxhall Location: Pentrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YA Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	299	-	305563 204753
185	Contemporary Trade Directory Entries Name: Thomas & Davies Location: Pentrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YB Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	325	-	305537 204794
186	Contemporary Trade Directory Entries Name: Capitol Motors Location: Pentrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YA Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	332	-	305477 204818
187	Contemporary Trade Directory Entries Name: A.M.R. Motors Location: The Old Gas Works, The Willows, Abercanard, Merthyr Tydfil, Mid Glamorgan, CF47 8XB Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NW (N)	357	-	305312 204832
187	Contemporary Trade Directory Entries Name: Alans Tyre Shop Location: Willows Garage, Abercanaid Ind Est, Merthyr Tydfil, Mid Glamorgan, CF48 1YF Classification: Garage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A13NW (N)	360	-	305315 204836
188	Contemporary Trade Directory Entries Name: Soten Uk Ltd Location: Unit 4, Triangle Business Park, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4TQ Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A9NW (E)	366	-	305960 204151
189	Contemporary Trade Directory Entries Name: Comet Location: Triangle Business Park, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4TQ Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (E)	378	-	305995 204034
190	Contemporary Trade Directory Entries Name: Kwik Fit Location: Pentrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YA Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	378	-	305515 204857

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
191	Contemporary Trade Directory Entries Name: Speedy Hire Location: Pentrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YA Classification: Machine Tool Accessories & Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	386	-	305452 204876
192	Contemporary Trade Directory Entries Name: Cymru Healthcare Supplies Location: Unit 6, Triangle Business Park, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4TQ Classification: Medical Equipment Maintenance & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	406	-	305961 204261
192	Contemporary Trade Directory Entries Name: Glamorgan Paint Stovers Ltd Location: Unit 7, Triangle Business Park, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4TQ Classification: Powder Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (E)	427	-	305992 204236
192	Contemporary Trade Directory Entries Name: Top Coat Wales Ltd Location: Unit 7, Triangle Business Park, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4TQ Classification: Powder Coatings Status: Active Positional Accuracy: Manually positioned to the address or location	A9NW (E)	427	-	305992 204236
193	Contemporary Trade Directory Entries Name: Triumph Business Systems Location: Triumph Works, The Willows, Merthyr Tydfil, Mid Glamorgan, CF48 1YH Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	437	-	305190 204883
193	Contemporary Trade Directory Entries Name: Triumph Furniture Ltd Location: Triumph Works, The Willows, Merthyr Tydfil, Mid Glamorgan, CF48 1YH Classification: Furniture Manufacturers - Home & Office Status: Active Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	437	-	305190 204883
194	Contemporary Trade Directory Entries Name: Evans Halshaw Location: Pentrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YA Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	446	-	305512 204928
194	Contemporary Trade Directory Entries Name: King David'S Tyre'S Location: Pentrebach Road, Merthyr Tydfil, Mid Glamorgan, CF48 1YA Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	446	-	305512 204928
195	Contemporary Trade Directory Entries Name: Dairycrest Dairies Ltd Location: Abercanaid Industrial Estate, Merthyr Tydfil, Mid Glamorgan, CF48 1YF Classification: Dairies Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	464	-	305278 204934
195	Contemporary Trade Directory Entries Name: Davies European Service Location: The Willows, Abercanaid Industrial Estate, Merthyr Tydfil, Mid Glamorgan, CF48 1YF Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (N)	464	-	305278 204934
196	Contemporary Trade Directory Entries Name: Adlam Builders Location: 11, Alexander Place, Abercanaid, Merthyr Tydfil, Mid Glamorgan, CF48 1SJ Classification: Damp & Dry Rot Control Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	490	-	305965 203671

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
197	Contemporary Trade Directory Entries Name: System Electrical Engineers Ltd Location: Unit 13, Pentrebach Industrial Estate, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4BE Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (E)	526	-	306143 203988
198	Contemporary Trade Directory Entries Name: Wedgewood Developments Location: Pentrebach Indust Est, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4TU Classification: Builders' Tools & Equipment Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NE (E)	556	-	306172 204056
198	Contemporary Trade Directory Entries Name: Aa Service Centre Location: Unit A Pentrebach Indust Est, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4BQ Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NE (E)	564	-	306181 204053
199	Contemporary Trade Directory Entries Name: Clean Extreme Location: 14, Gladstone Terrace, Merthyr Tydfil, Mid Glamorgan, CF47 0UU Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	619	-	305448 205109
200	Contemporary Trade Directory Entries Name: Wet Rooms Direct Ltd Location: Greenfield Court, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4BH Classification: Door Manufacturers - Industrial Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9SE (SE)	667	-	306231 203753
201	Contemporary Trade Directory Entries Name: Motofix Location: Plymouth Street, Merthyr Tydfil, Mid Glamorgan, CF47 0TT Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (N)	711	-	305447 205202
202	Contemporary Trade Directory Entries Name: P & R Motors Location: New Merthyr Road, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4UB Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A4NE (SE)	763	-	306203 203527
203	Contemporary Trade Directory Entries Name: W J Hughes Painters & Decorators Location: 47, Clare Street, Merthyr Tydfil, Mid Glamorgan, CF47 0YL Classification: Painting & Decorating Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	786	-	305328 205272
203	Contemporary Trade Directory Entries Name: Kaykel Communications Location: 41, Clare Street, Merthyr Tydfil, Mid Glamorgan, CF47 0YN Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	788	-	305359 205277
204	Contemporary Trade Directory Entries Name: Tribotics Location: The Archers, Clare St, Merthyr Tydfil, Mid Glamorgan, CF47 0YL Classification: Automation Systems & Equipment Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18NW (N)	831	-	305295 205313
205	Contemporary Trade Directory Entries Name: S A S Location: 28a, Ernest Street, Merthyr Tydfil, Mid Glamorgan, CF47 0YP Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	885	-	305329 205371

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
206	Contemporary Trade Directory Entries Name: Rainbow Print Wales Ltd Location: Unit F, Merthyr Tydfil Industrial Park, Pentrebach, MERTHYR TYDFIL, Mid Glamorgan, CF48 4DR Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A4NE (SE)	945	-	306365 203438
207	Contemporary Trade Directory Entries Name: Elite Paper Solutions Ltd Location: Viaduct House, Merthyr Tydfil Industrial Park, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4DR Classification: Refrigerators & Freezers - Servicing & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A4NE (SE)	946	-	306319 203382
207	Contemporary Trade Directory Entries Name: Plastic Building Materials Ltd Location: Viaduct House, Merthyr Tydfil Industrial Park, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4DR Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A4NE (SE)	946	-	306319 203382
207	Contemporary Trade Directory Entries Name: Oakley Cabinet Co Ltd Location: Unit 10, Merthyr Tydfil Ind Pk, Pentrebach, Merthyr Tydfil, Mid Glamorgan, CF48 4DR Classification: Cabinet Makers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A4NE (SE)	993	-	306345 203340
208	Contemporary Trade Directory Entries Name: Euro Connexions Ltd Location: Rhydyar Business Park, Merthyr Tydfil, Mid Glamorgan, CF48 1DL Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	947	-	304786 205245
209	Contemporary Trade Directory Entries Name: Twyn Launderette Location: Glasier Rd, Merthyr Tydfil, Mid Glamorgan, CF47 0TD Classification: Laundries & Launderettes Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A18NE (N)	954	-	305540 205438
210	Fuel Station Entries Name: Thomas & Davies Location: Pentrebach Road, Ysgubor Newydd, MERTHYR TYDFIL, Mid Glamorgan, CF48 1YB Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A13NE (N)	325	-	305537 204794
211	Fuel Station Entries Name: Evans Halshaw Location: Pentrebach Road, Ysgubor Newydd, MERTHYR TYDFIL, Mid Glamorgan, CF48 1YA Brand: OBSOLETE Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A18SE (N)	445	-	305507 204928

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
212	Sites of Special Scientific Interest Name: Cwm Glo A Glyndyrys Multiple Areas: N Total Area (m2): 1813102.27 Source: Natural Resources Wales Reference: 159733wnl Designation Details: Biological Designation Date: 23rd January 2003 Date Type: Notified	A12SE (NW)	312	2	305018 204519

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Rhondda Cynon Taff County Borough Council - Environmental Services Caerphilly County Borough Council - Environmental Health Department Merthyr Tydfil County Borough Council - Environmental Health Department	April 2014 August 2013 February 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 November 2015	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Welsh Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Welsh Region Natural Resources Wales	October 2015 October 2015	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Caerphilly County Borough Council - Environmental Health Department Merthyr Tydfil County Borough Council - Environmental Health Department Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	February 2013 March 2013 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Merthyr Tydfil County Borough Council - Environmental Health Department Caerphilly County Borough Council - Environmental Health Department Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	March 2013 September 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Merthyr Tydfil County Borough Council - Environmental Health Department Caerphilly County Borough Council - Environmental Health Department Rhondda Cynon Taff County Borough Council - Public Health and Protection Division	March 2013 September 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	As notified As notified
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	As notified As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency Wales - South East Area Natural Resources Wales	October 2015 October 2015	Quarterly Quarterly
Water Abstractions Natural Resources Wales Environment Agency - Welsh Region Natural Resources Wales	April 2015 October 2015 October 2015	Quarterly Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region Natural Resources Wales	October 2015 October 2015	Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	January 2015	As notified
Source Protection Zones Natural Resources Wales Environment Agency - Head Office	July 2015 October 2015	Quarterly Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office Natural Resources Wales	November 2015 October 2015	Quarterly Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office Natural Resources Wales	November 2015 October 2015	Quarterly Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2015	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2015	Quarterly
Flood Defences Environment Agency - Head Office	November 2015	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	As notified
Surface Water Suitability Natural Resources Wales	October 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South East Area	August 2014	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	October 2015 October 2015	Quarterly Quarterly
Local Authority Landfill Coverage Caerphilly County Borough Council - Environmental Health Department Merthyr Tydfil County Borough Council - Environmental Health Department Rhondda Cynon Taff County Borough Council	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Caerphilly County Borough Council - Environmental Health Department Merthyr Tydfil County Borough Council - Environmental Health Department Rhondda Cynon Taff County Borough Council	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	June 2015	Bi-Annually
Explosive Sites Health and Safety Executive	June 2015	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Brecon Beacons National Park Caerphilly County Borough Council - Planning Department Merthyr Tydfil County Borough Council - Planning Department Rhondda Cynon Taff County Borough Council - Planning Department	August 2008 March 2014 September 2007 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Brecon Beacons National Park Caerphilly County Borough Council - Planning Department Merthyr Tydfil County Borough Council - Planning Department Rhondda Cynon Taff County Borough Council - Planning Department	August 2008 March 2014 September 2007 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2015	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2015	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2015	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Outstanding Natural Beauty Natural Resources Wales	October 2015	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	August 2008	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Caerphilly County Borough Council Merthyr Tydfil County Borough Council Rhondda Cynon Taff County Borough Council	October 2015 October 2015 October 2015	Bi-Annually Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	October 2015	Bi-Annually
National Nature Reserves Natural Resources Wales	October 2015	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Not Applicable
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	Annually
Ramsar Sites Natural Resources Wales	October 2015	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	October 2015	Bi-Annually
Special Areas of Conservation Natural Resources Wales	October 2015	Bi-Annually
Special Protection Areas Natural Resources Wales	October 2015	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Merthyr Tydfil County Borough Council - Environmental Health Department Civic Centre, Castle Street, Merthyr Tydfil, Mid Glamorgan, CF47 8AN	Telephone: 01685 725000 Fax: 01685 725024 Website: www.merthyr.gov.uk
4	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
6	The Coal Authority - Mining Report Service 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

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Intégral Géotechnique

Groundwater Vulnerability

General

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

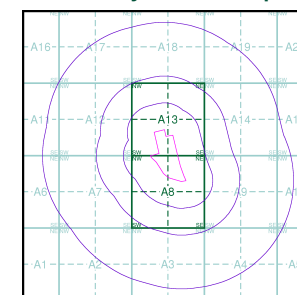
Agency and Hydrological

Geological Classes

- Major Aquifer (Highly Permeable)
 - High (H) 1, 2, 3, U
 - Intermediate (I) 1, 2
 - Low
- Minor Aquifer (Variably Permeable)
 - High (H) 1, 2, 3, U
 - Intermediate (I) 1, 2
 - Low
- Non Aquifer (Negligibly Permeable)
- Water or Sea
- Drift Deposit

Soil Classes

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 78000054_1_1
 Customer Ref: 11722
 National Grid Reference: 305460, 204240
 Slice: A
 Site Area (Ha): 8.13
 Search Buffer (m): 1000

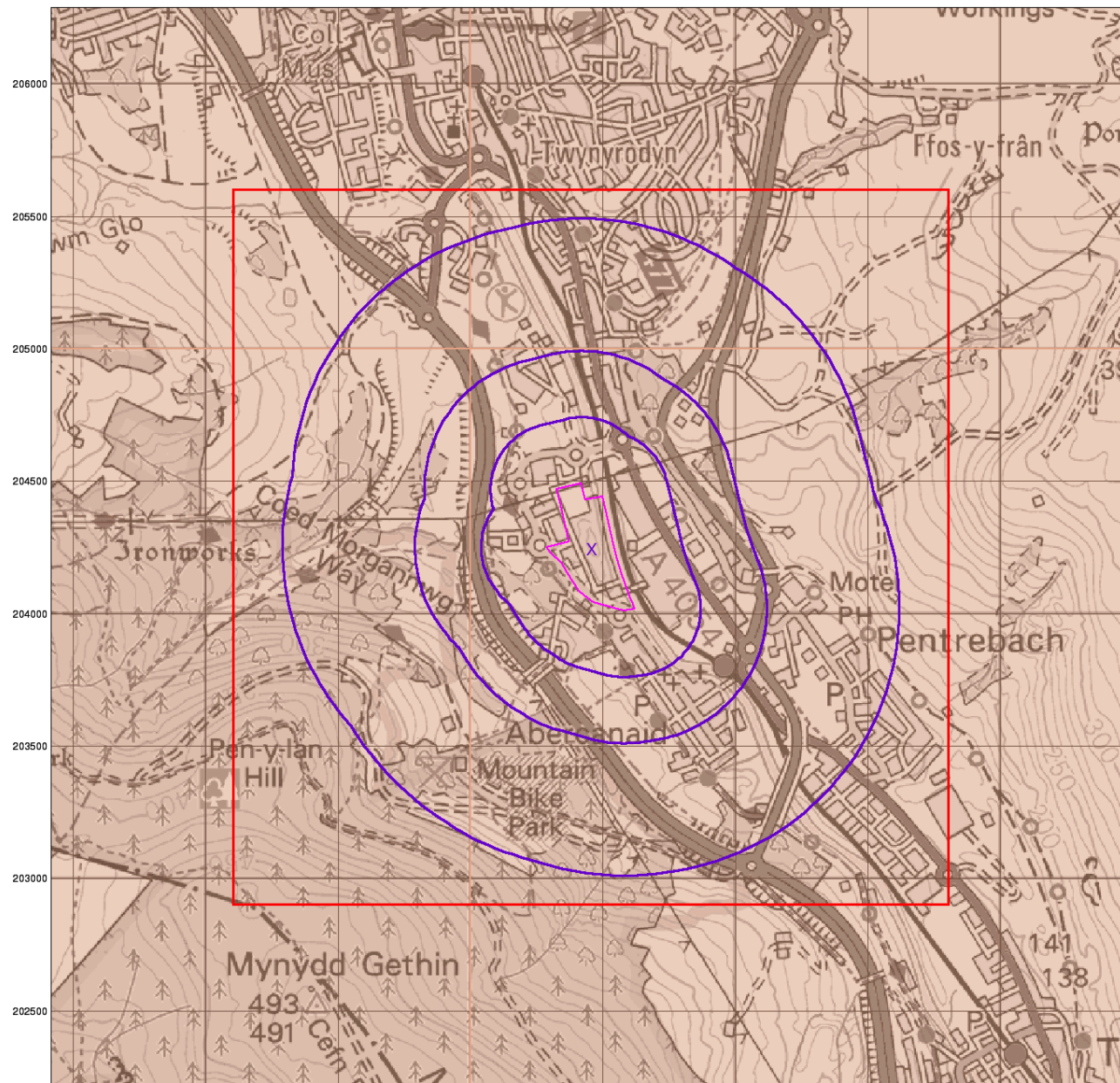
Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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

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Intégral Géotechnique

Bedrock Aquifer Designation

General

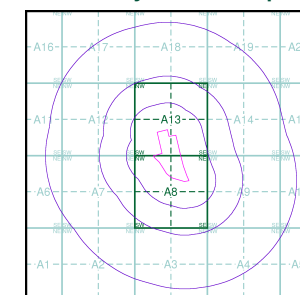
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

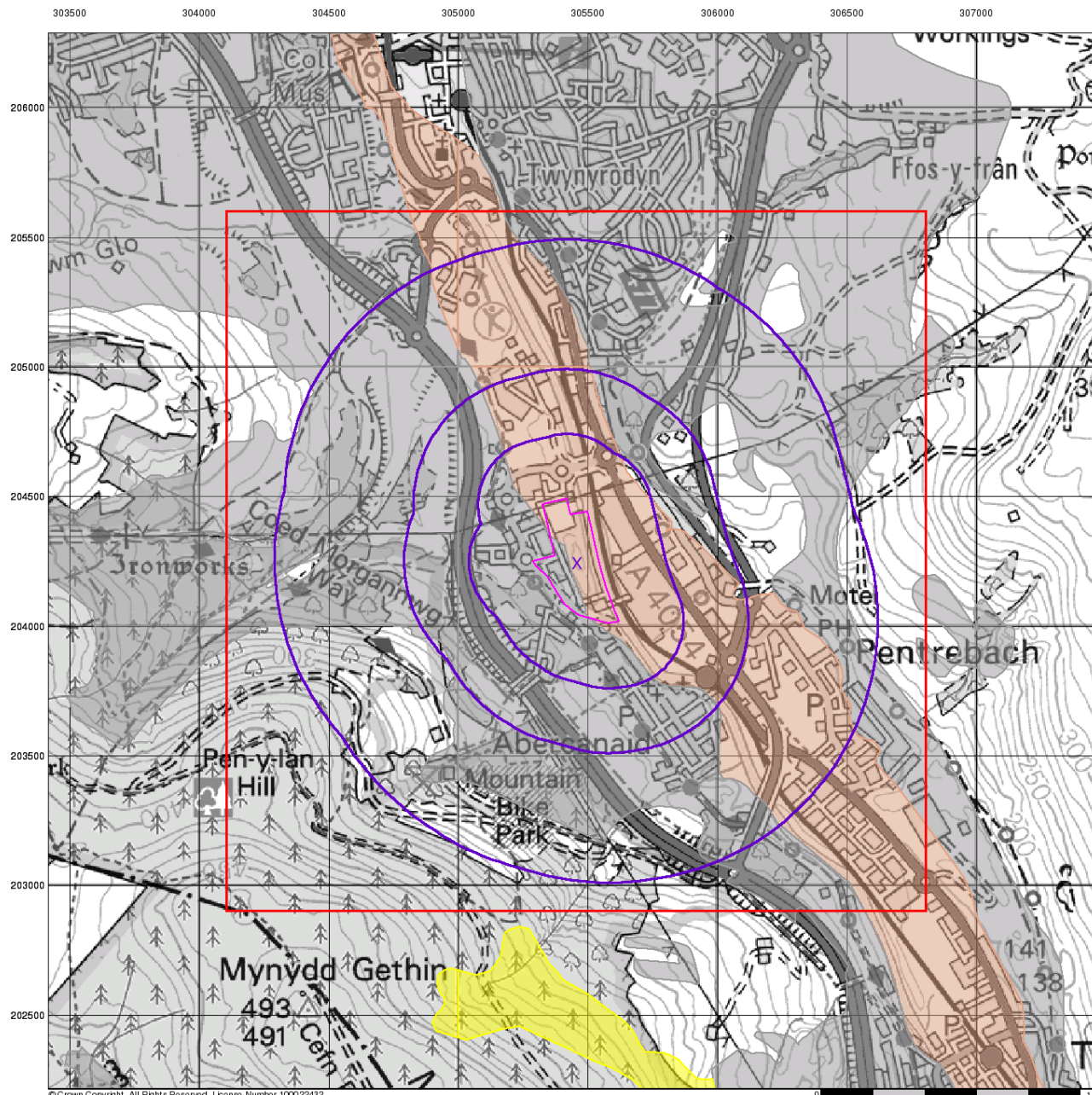
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 Customer Ref: 11722
 National Grid Reference: 305460, 204240
 Slice: A
 Site Area (Ha): 8.13
 Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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Superficial Aquifer Designation

General

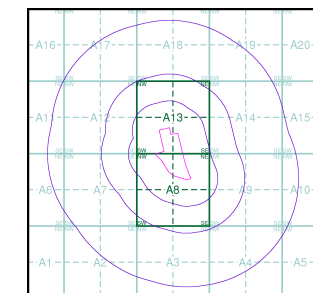
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

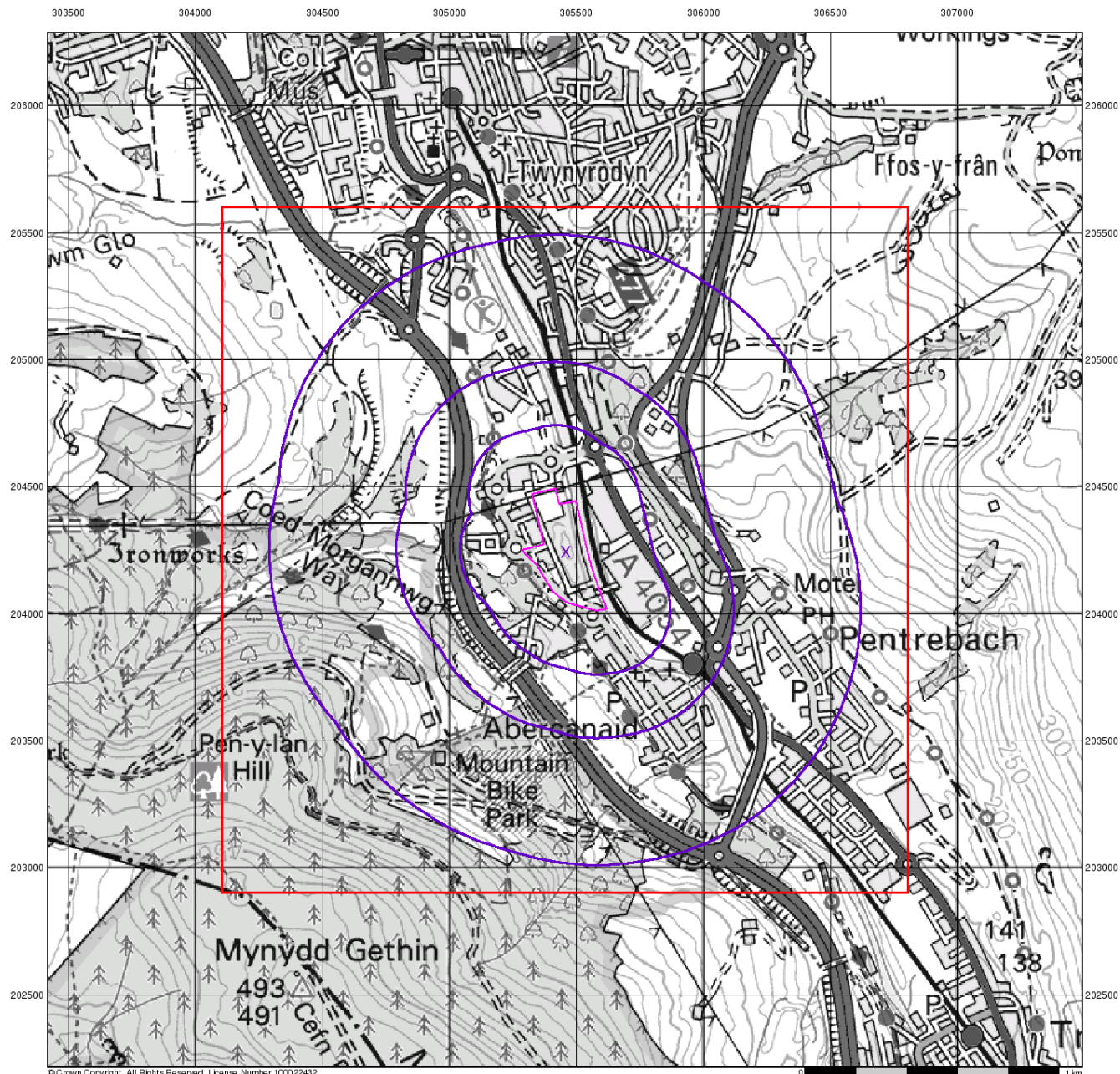
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 Slice: A
 Site Area (Ha): 8.13
 Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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Source Protection Zones

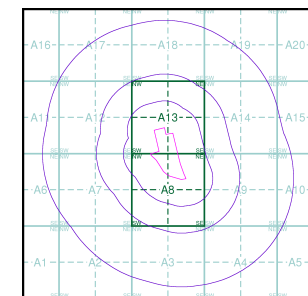
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 78000054_1_1
 Customer Ref: 11722
 National Grid Reference: 305460, 204240
 Slice: A
 Site Area (Ha): 8.13
 Search Buffer (m): 1000

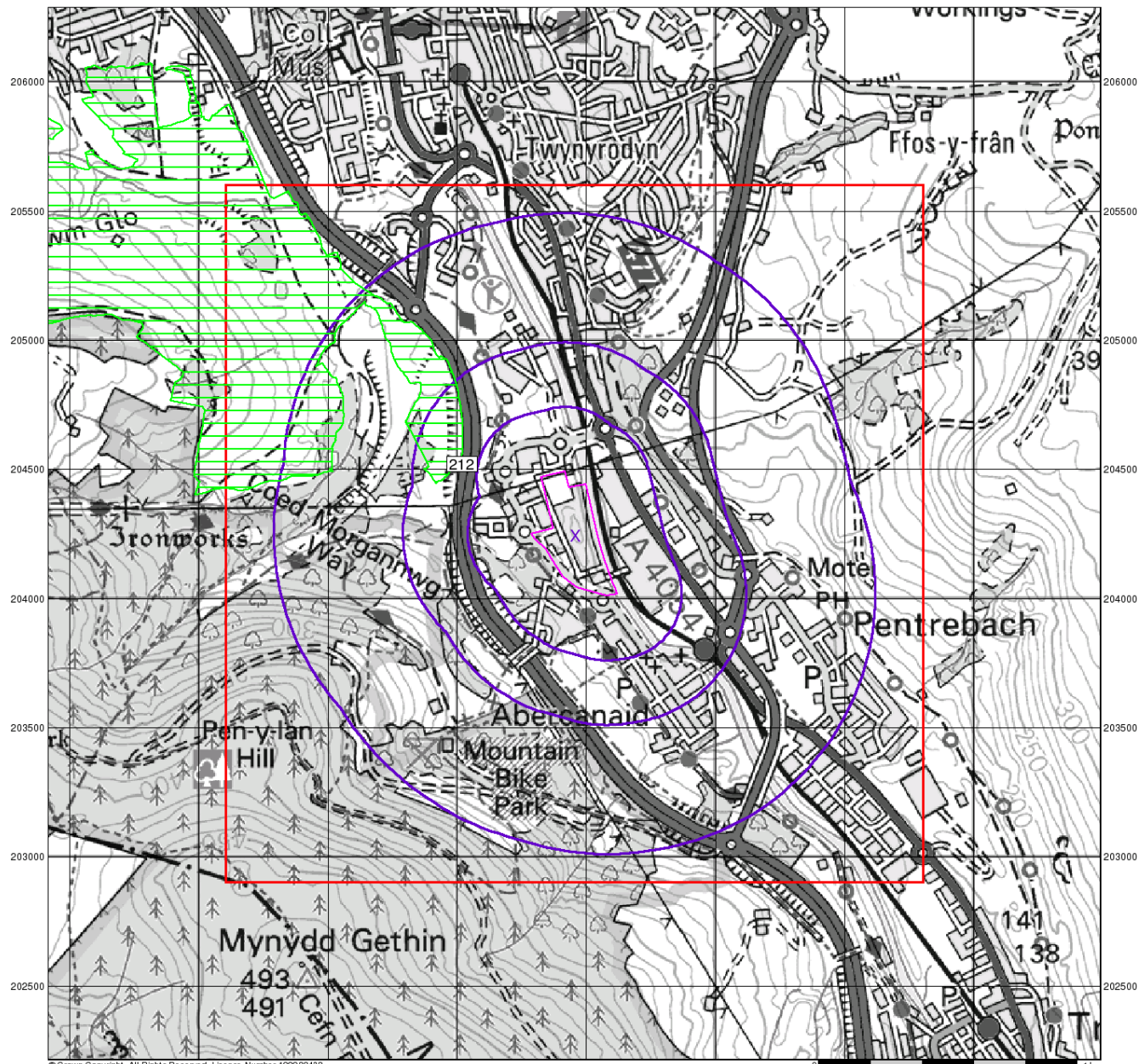
Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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Intégral Géotechnique

Sensitive Land Uses

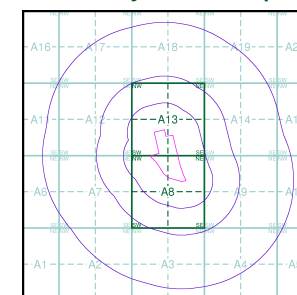
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

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Web: www.envirocheck.co.uk

Intégral Géotechnique

General

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

Agency and Hydrological

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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

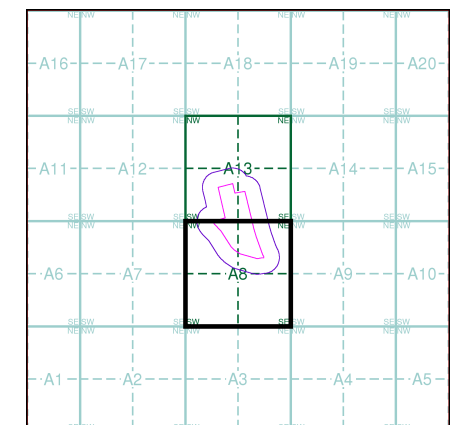
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A8



Order Details

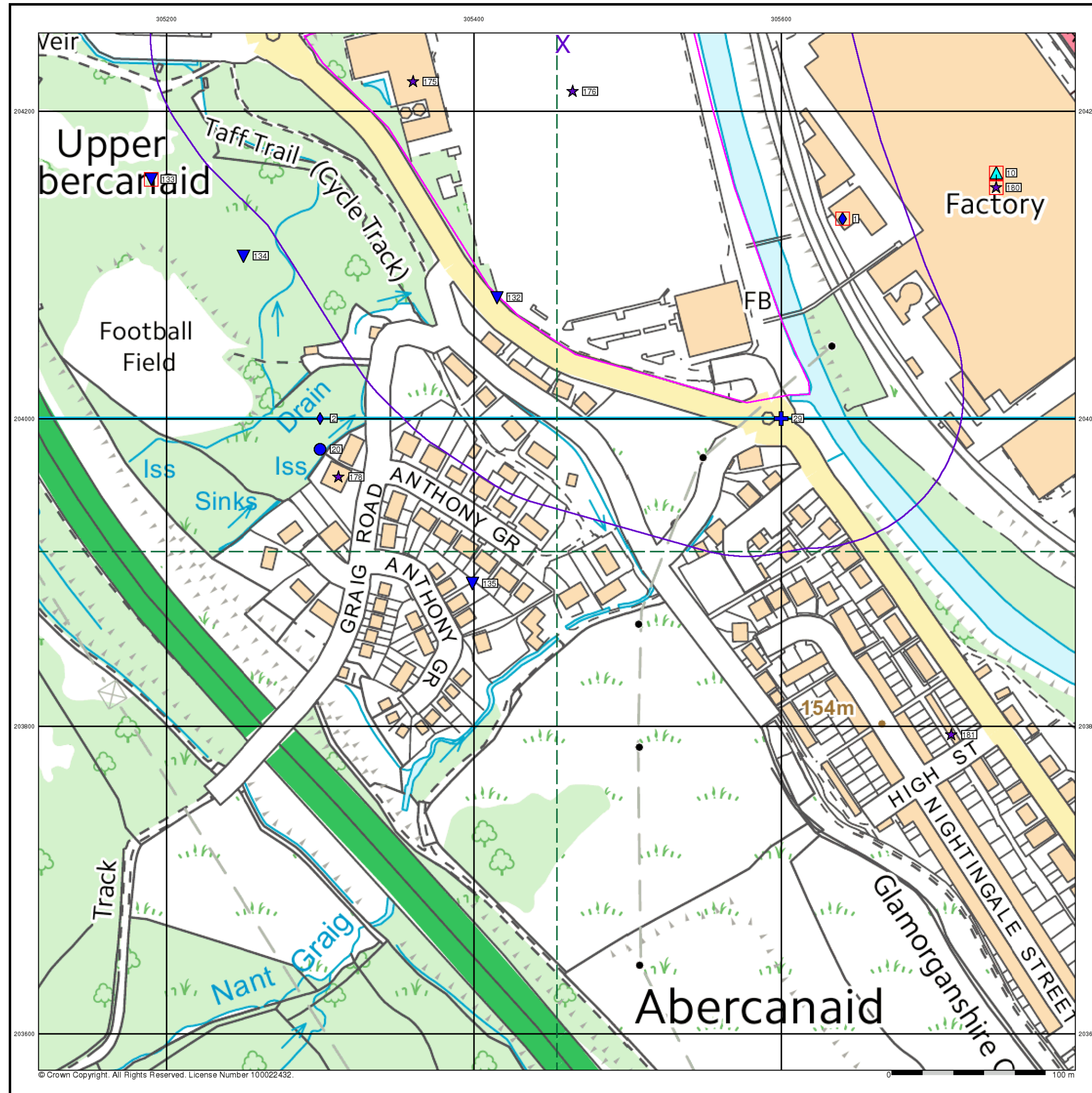
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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Intégral Géotechnique

General

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

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- Water Industry Act Referral

Waste

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- Registered Waste Transfer Site
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- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

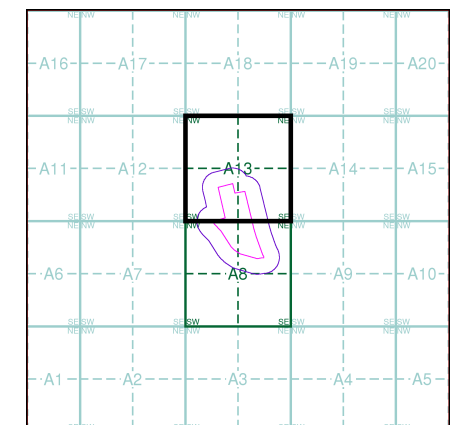
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A13



Order Details

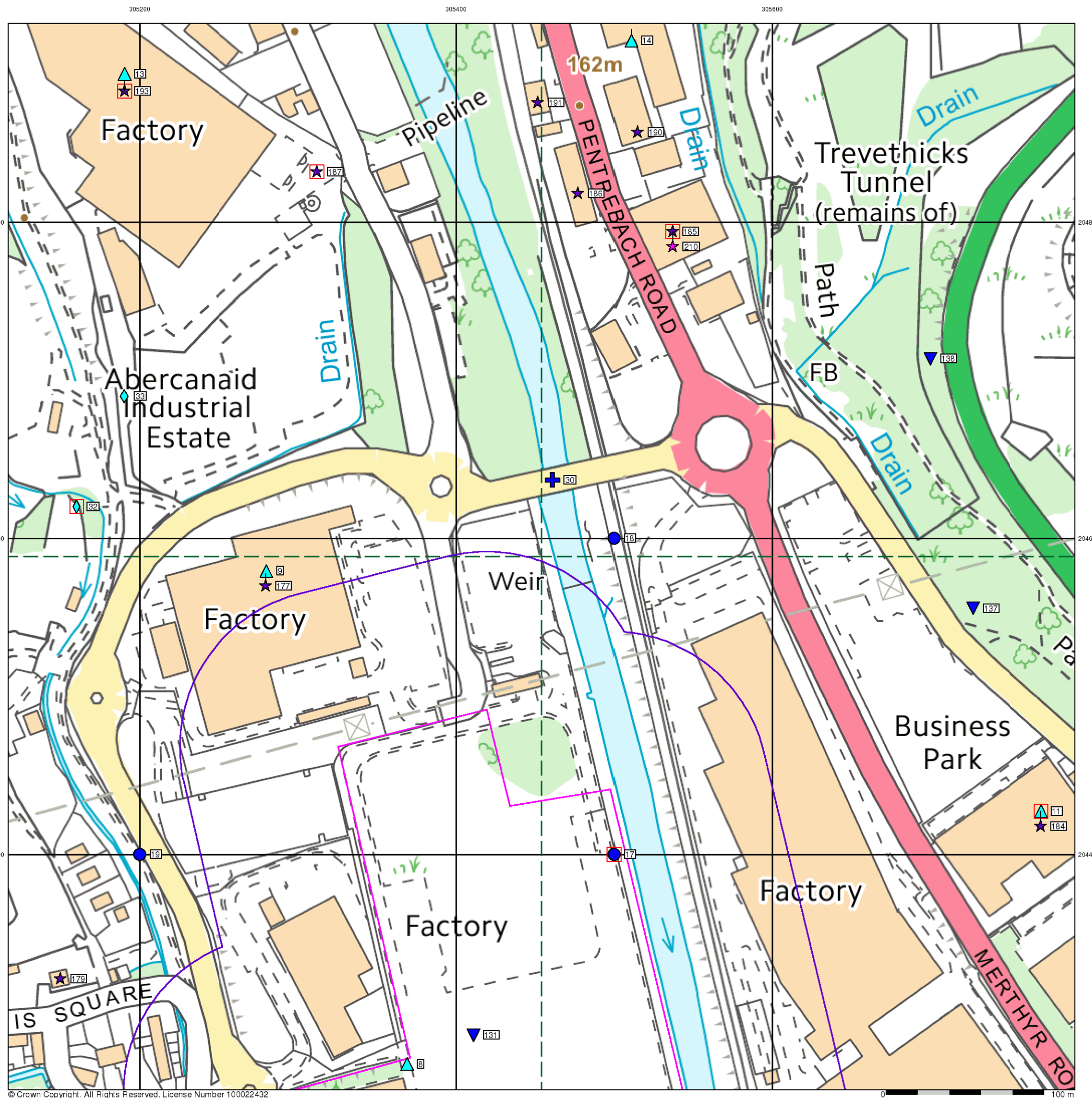
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Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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Intégral Géotechnique

General

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

Agency and Hydrological

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- Contaminated Land Register Entry or Notice
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- Integrated Pollution Control
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- BGS Recorded Landfill Site
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Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
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- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

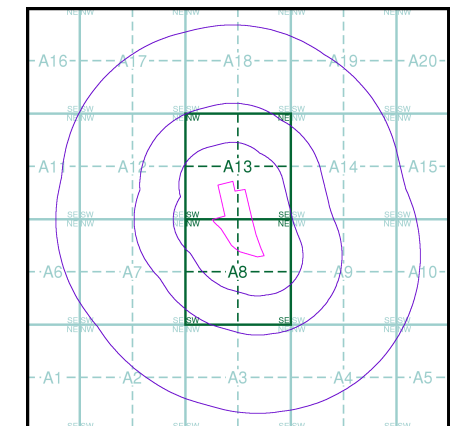
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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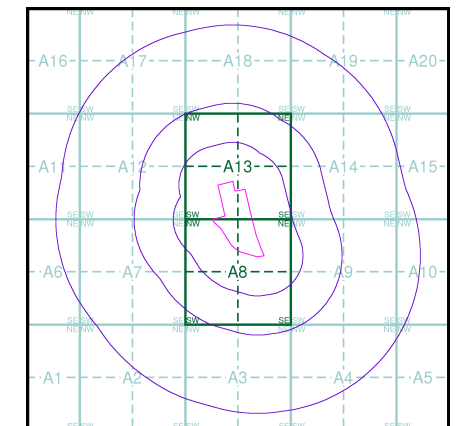
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



General

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

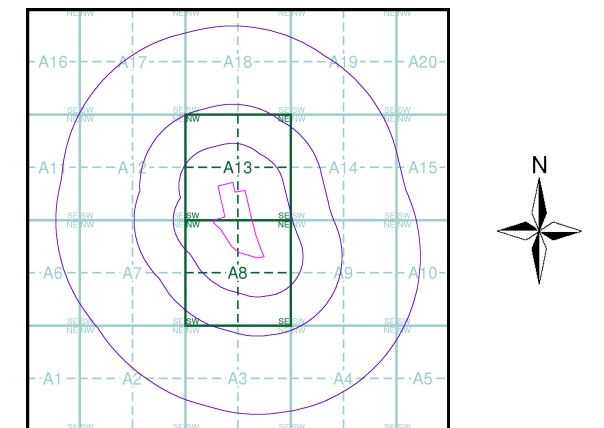
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

Intégral Géotechnique

General

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

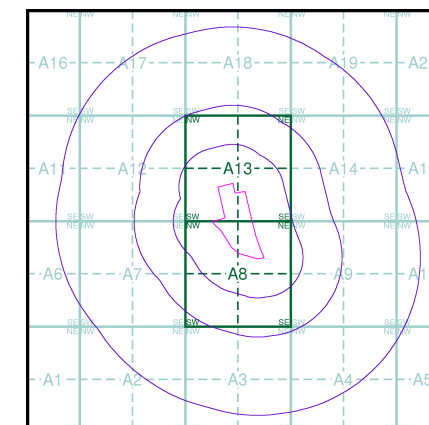
Detailed River Network Data

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature

Contours (height in metres)

- Standard Contour
- Master Contour
- Spot Height
- MLW Mean Low Water
- MHW Mean High Water

EAN/RW Detailed River Network Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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Intégral Géotechnique

General

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

Risk of Flooding from Surface Water

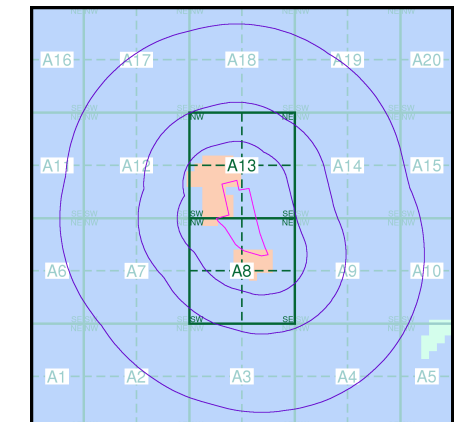
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A



Order Details

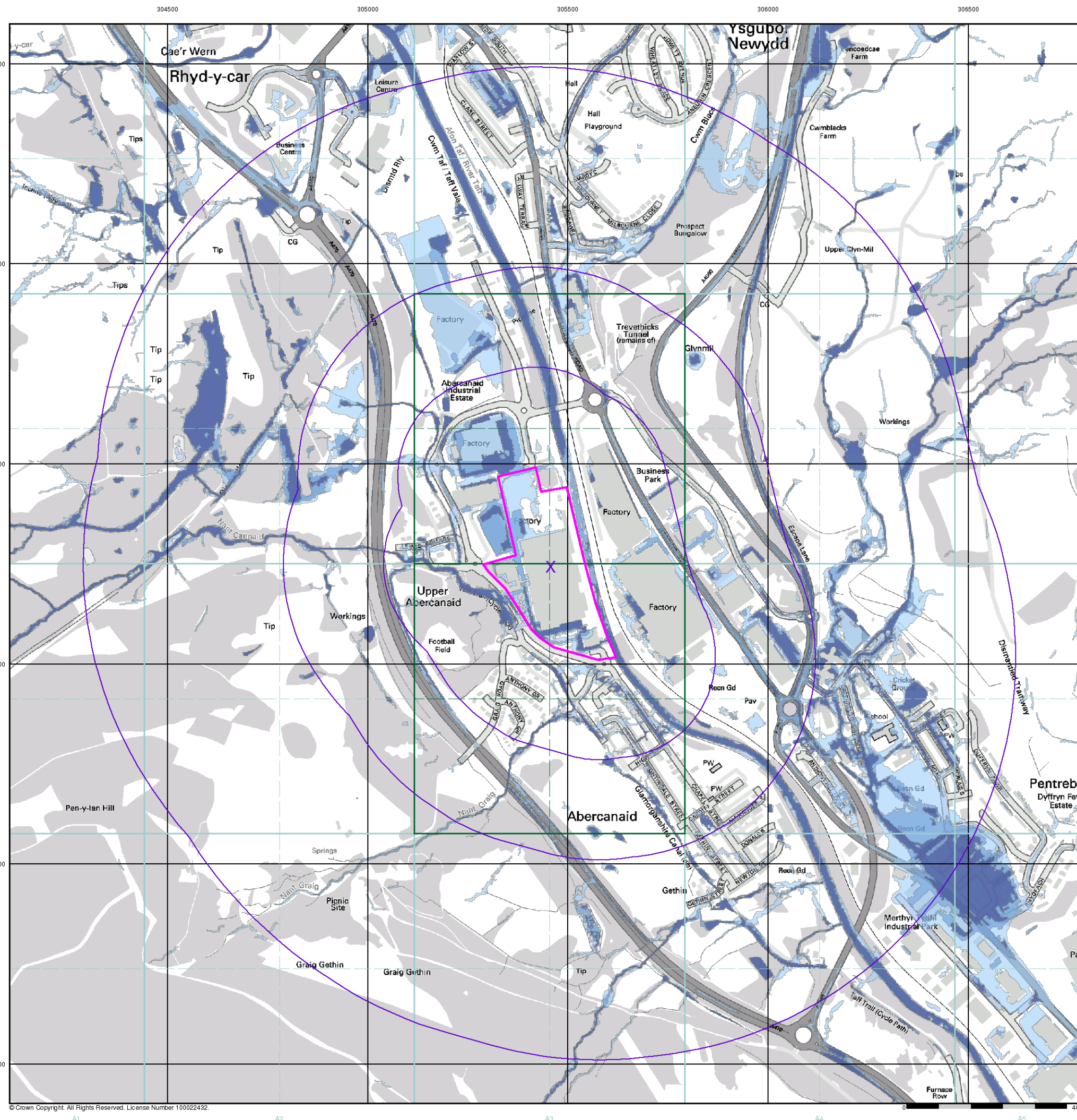
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Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

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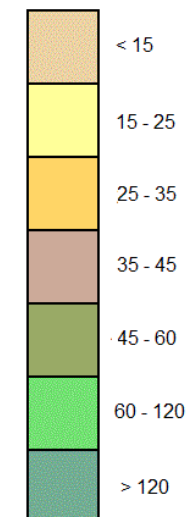
Intégral Géotechnique

General

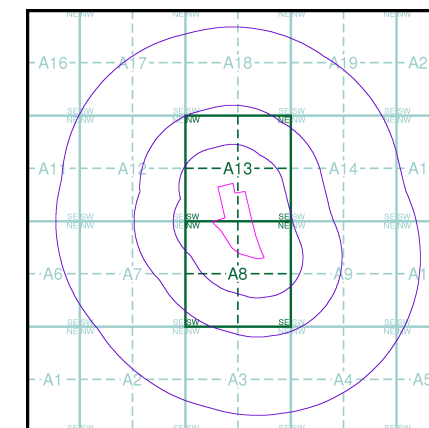
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

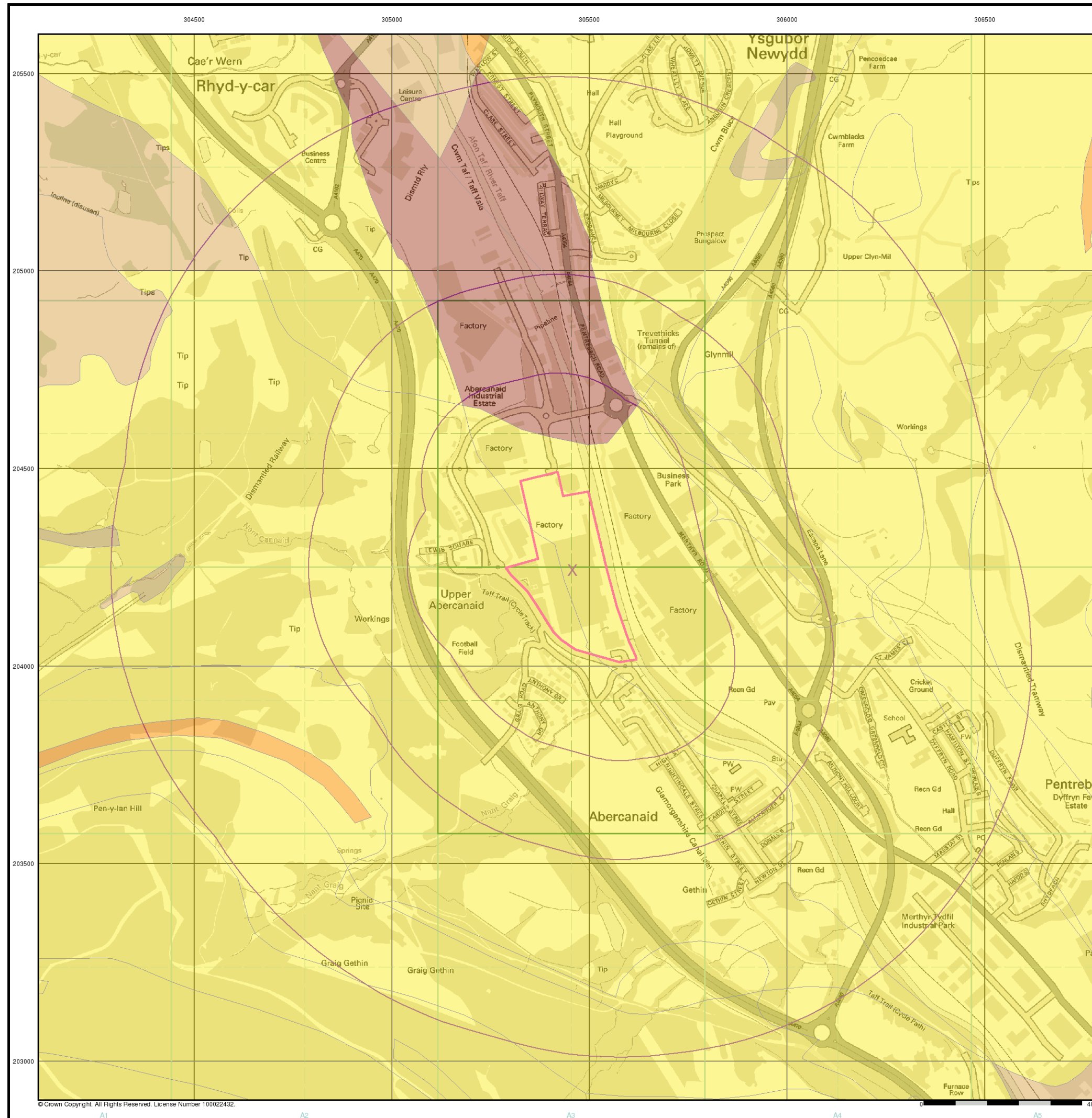
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Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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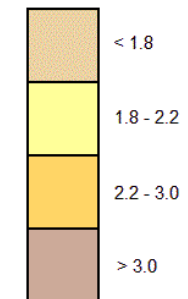
Intégral Géotechnique

General

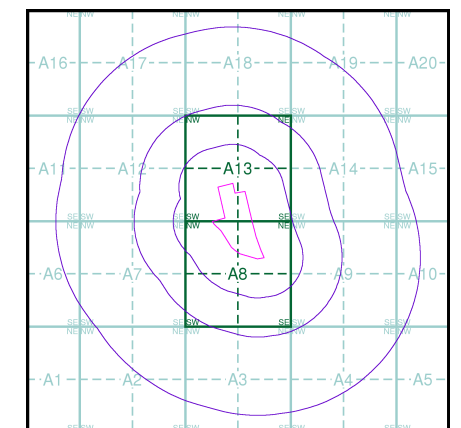
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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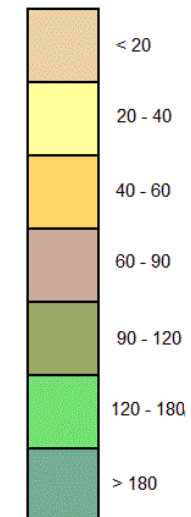
Intégral Géotechnique

General

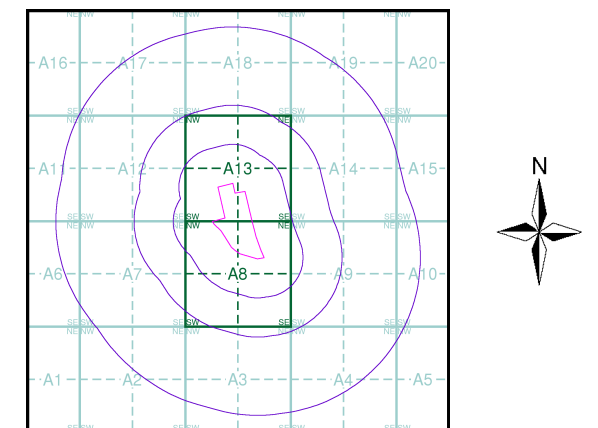
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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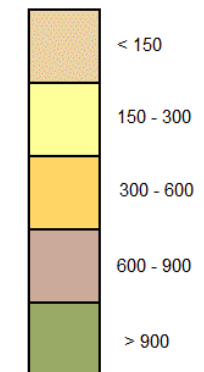
Intégral Géotechnique

General

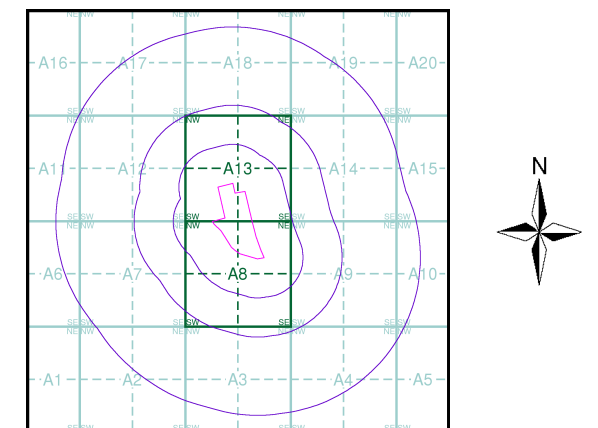
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

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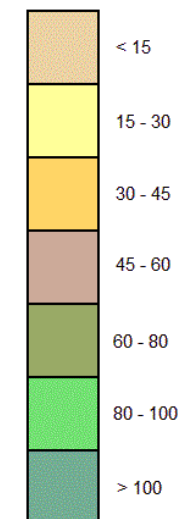
Intégral Géotechnique

General

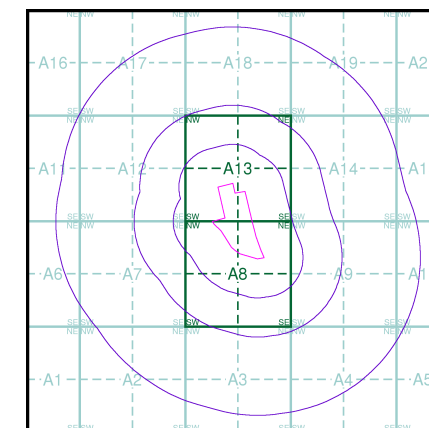
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

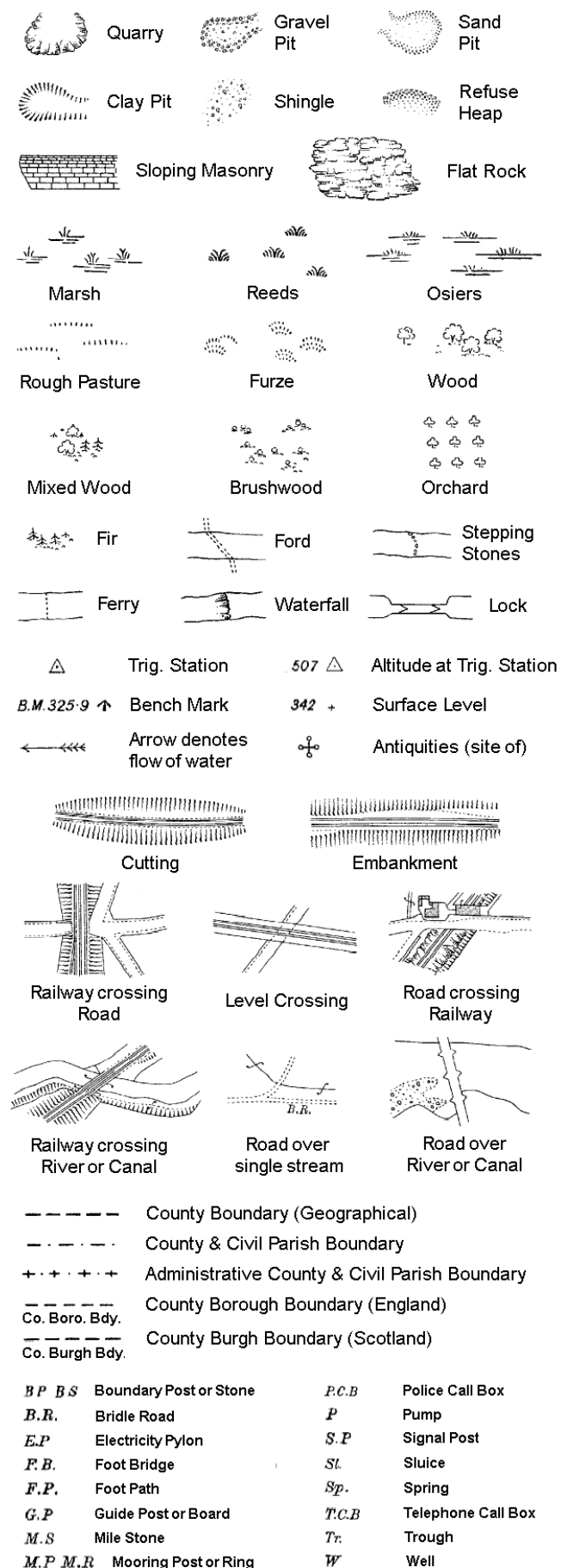
Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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Historical Mapping Legends

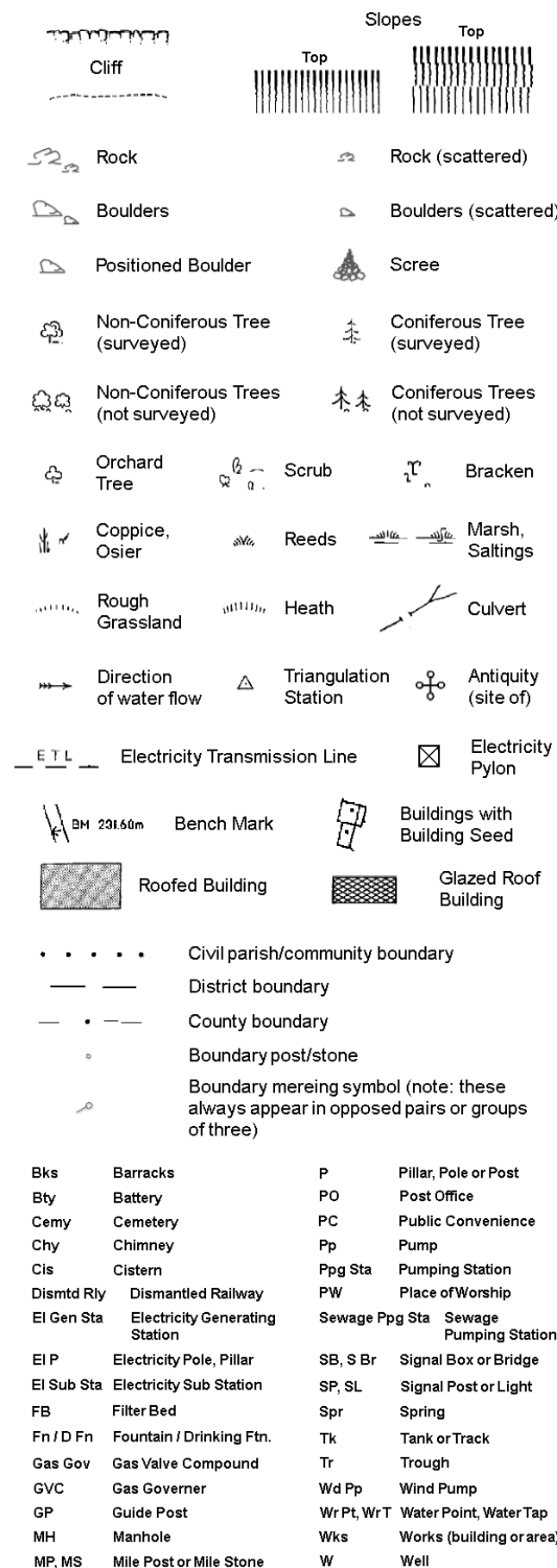
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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

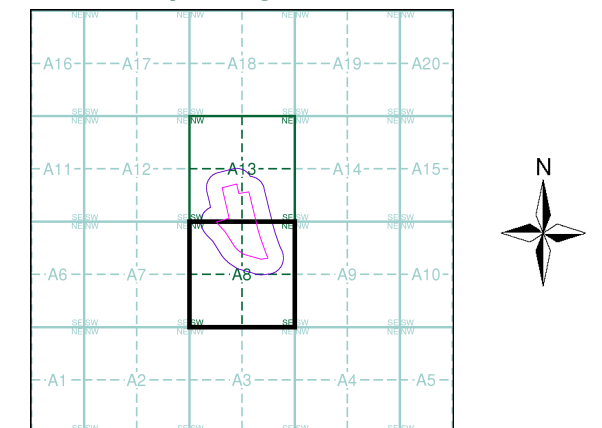


Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1881	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1919	4
Ordnance Survey Plan	1:2,500	1964	5
Ordnance Survey Plan	1:2,500	1972 - 1983	6
Additional SIMs	1:2,500	1979 - 1983	7
Ordnance Survey Plan	1:2,500	1986	8
Additional SIMs	1:2,500	1986 - 1988	9
Additional SIMs	1:2,500	1988	10
Additional SIMs	1:2,500	1988	11
Additional SIMs	1:2,500	1988	12
Additional SIMs	1:2,500	1988	13
Large-Scale National Grid Data	1:2,500	1993	14
Large-Scale National Grid Data	1:2,500	1993	15

Historical Map - Segment A8



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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Intégral Géotechnique

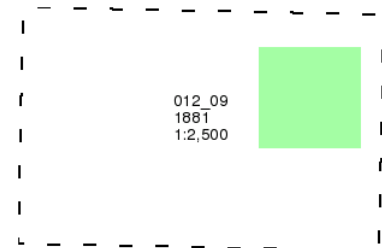
Glamorganshire

Published 1881

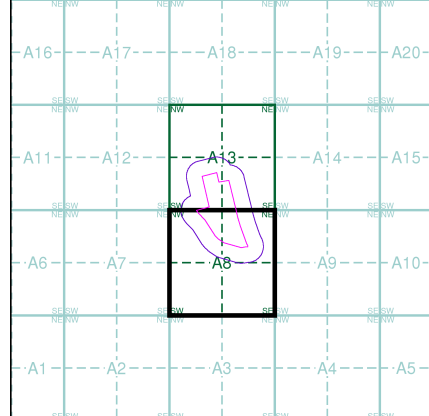
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

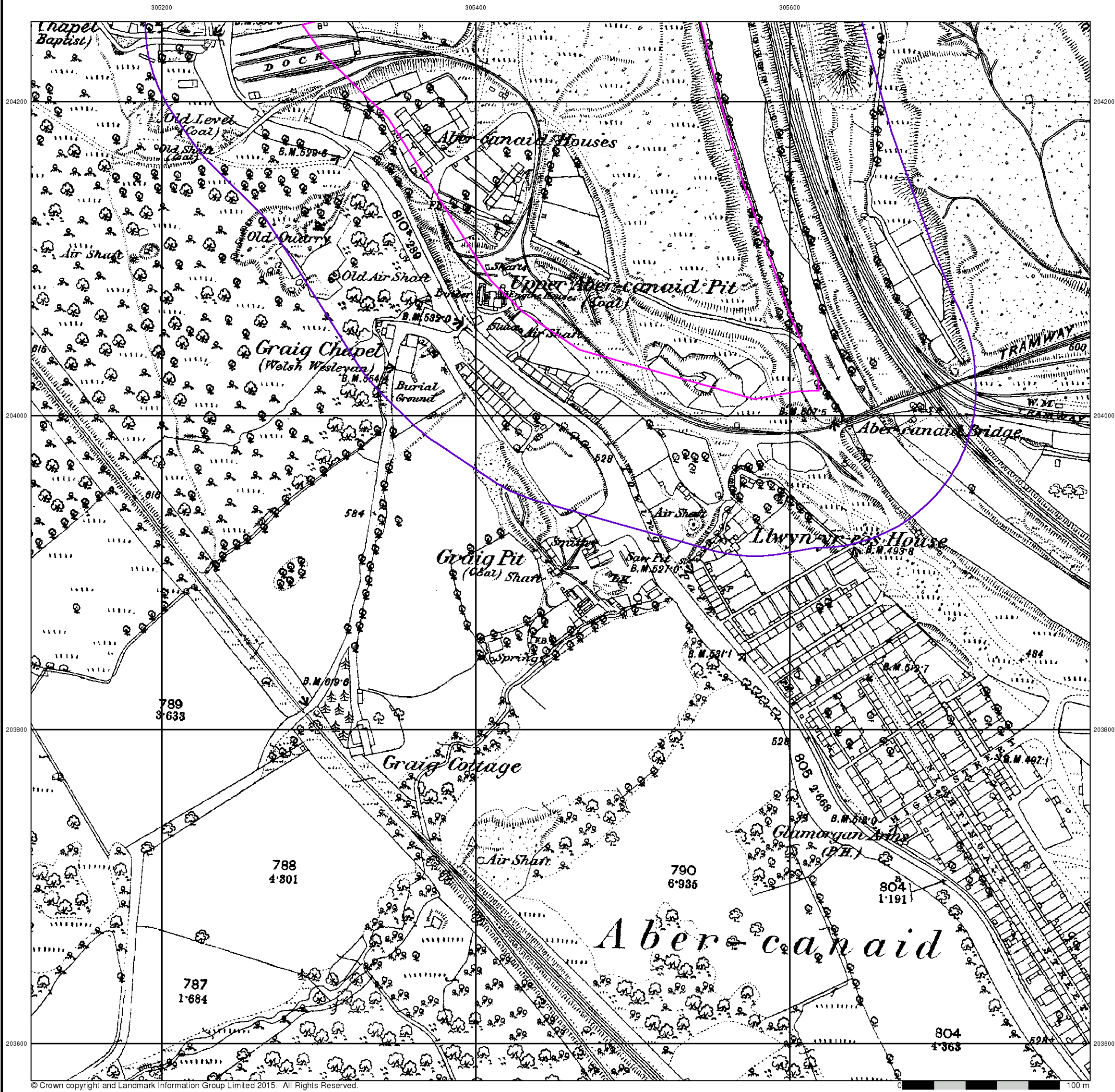
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

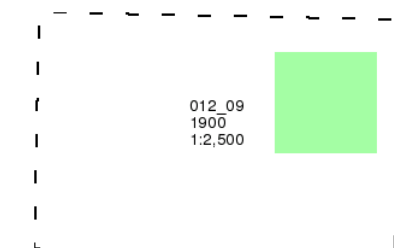


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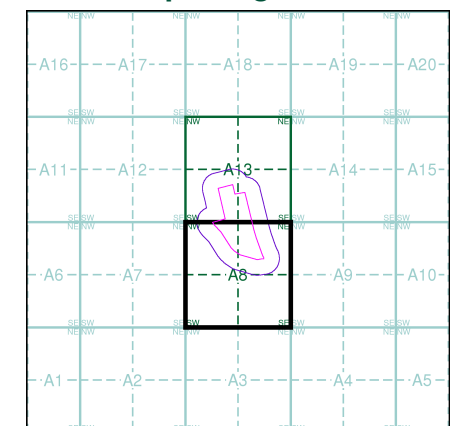


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)



Historical Map - Segment A8

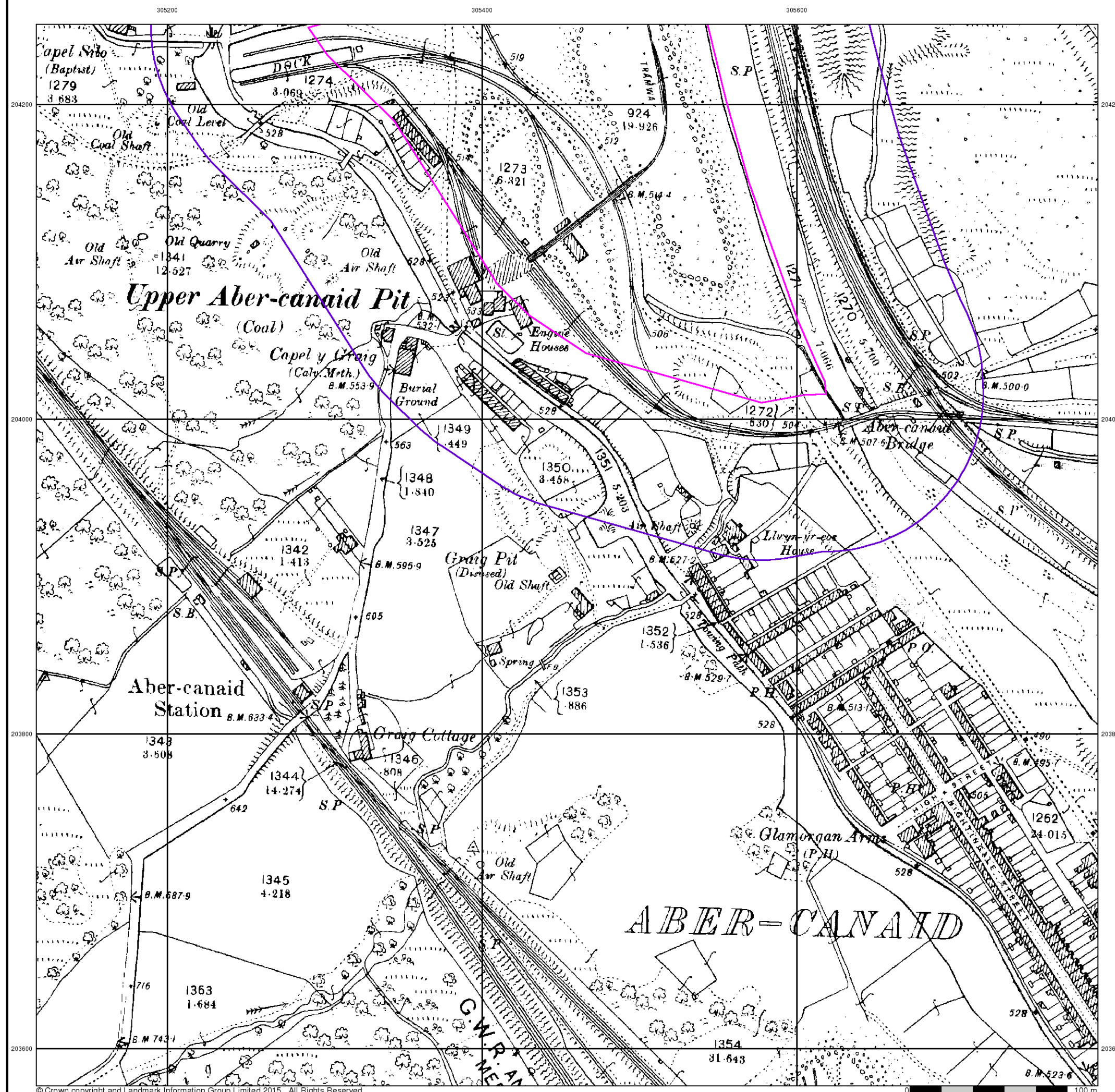


Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

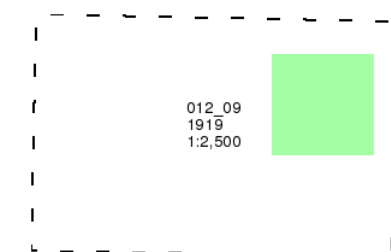
Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

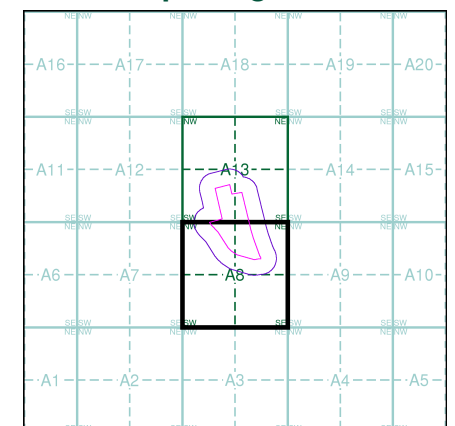


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



Ordnance Survey Plan

Published 1964

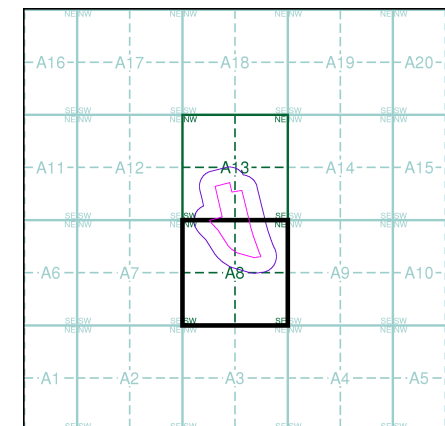
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 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)

SO0504
1964
1:2,500
SO0503
1964
1:2,500

Historical Map - Segment A8



Order Details

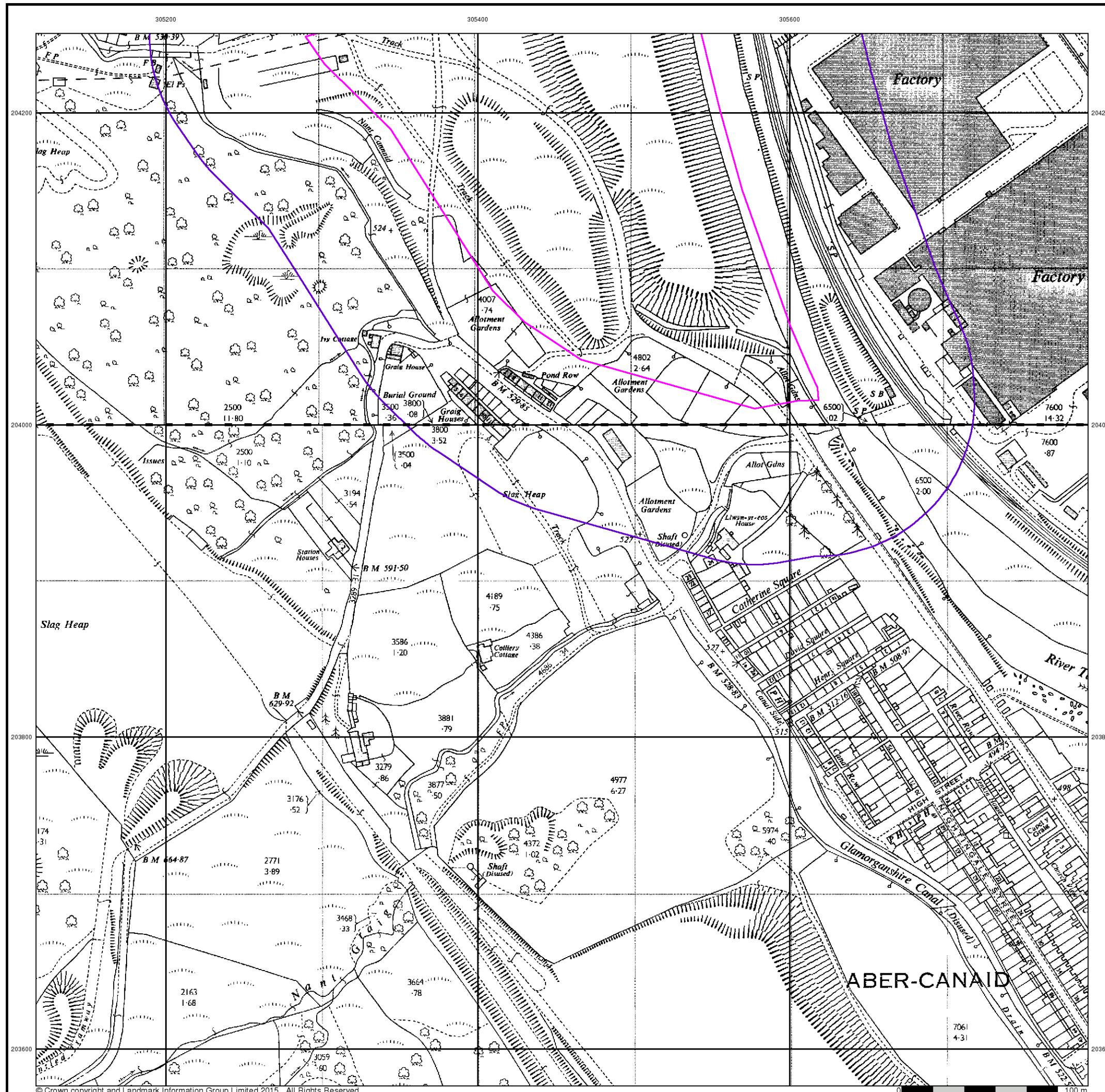
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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Ordnance Survey Plan

Published 1972 - 1983

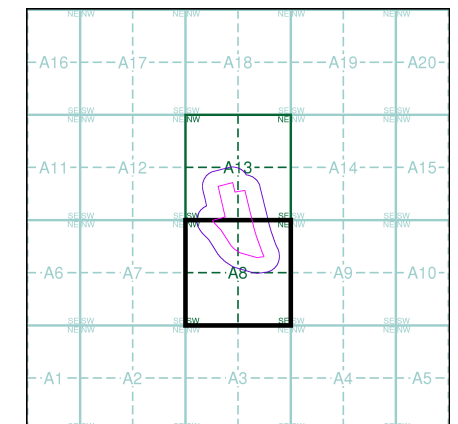
Source map scale - 1:2,500

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)

SO0504
1972
1:2,500
SO0503
1983
1:2,500

Historical Map - Segment A8

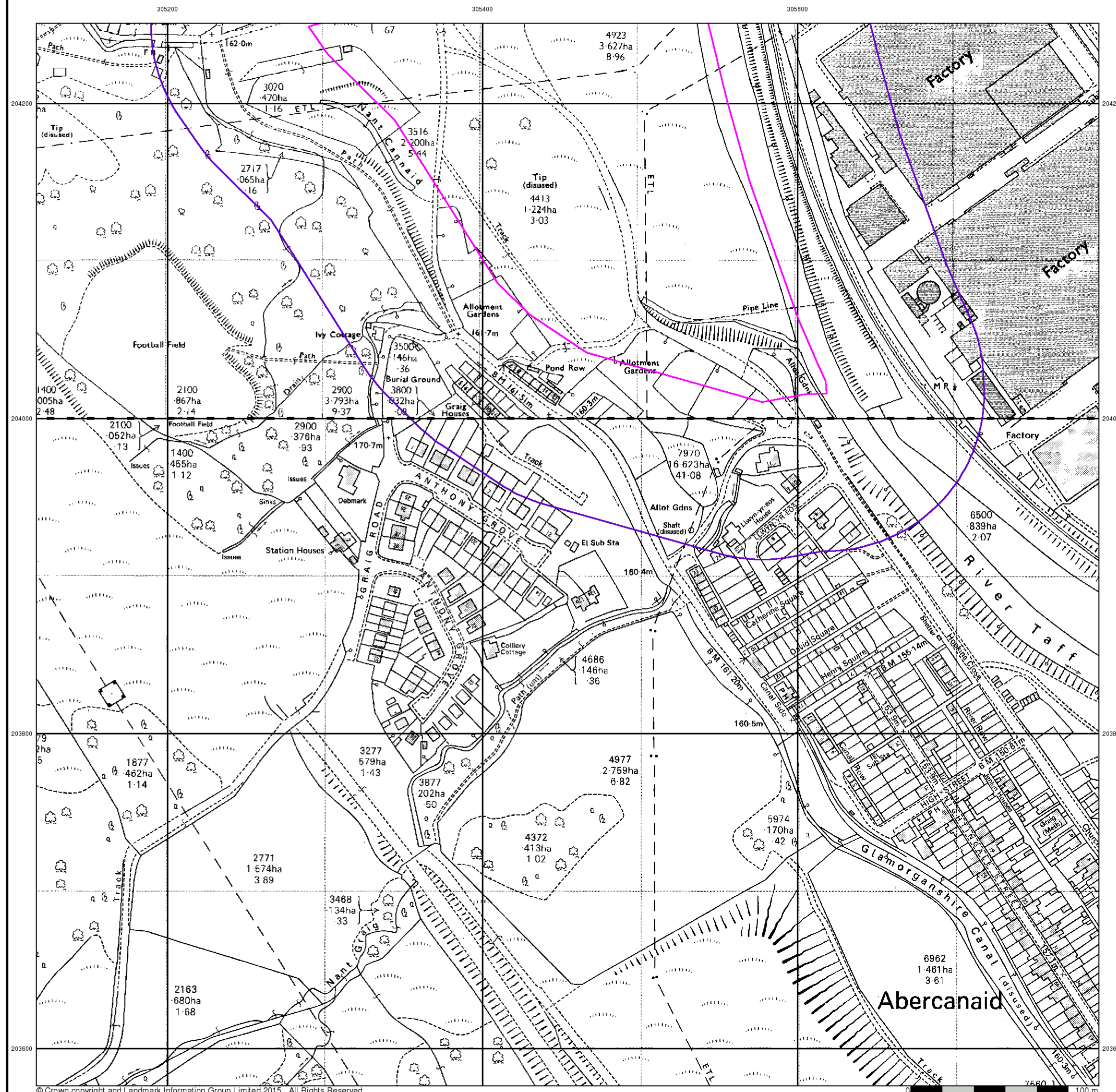


Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ





Additional SIMs

Published 1979 - 1983

Source map scale - 1:2,500

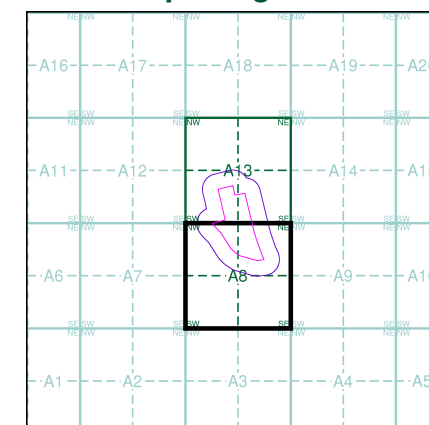
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SO0504
1979
1:2,500

SO0503
1983
1:2,500

Historical Map - Segment A8



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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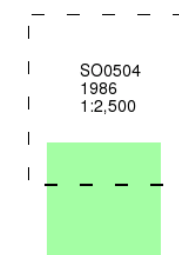
Ordnance Survey Plan

Published 1986

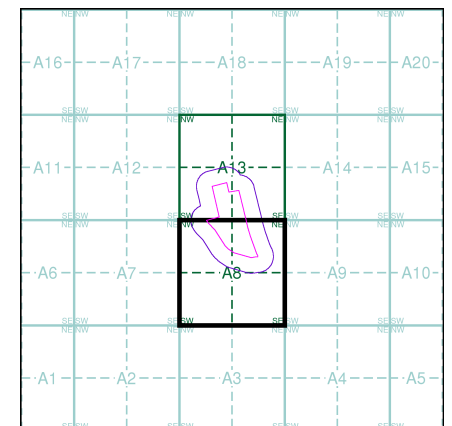
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

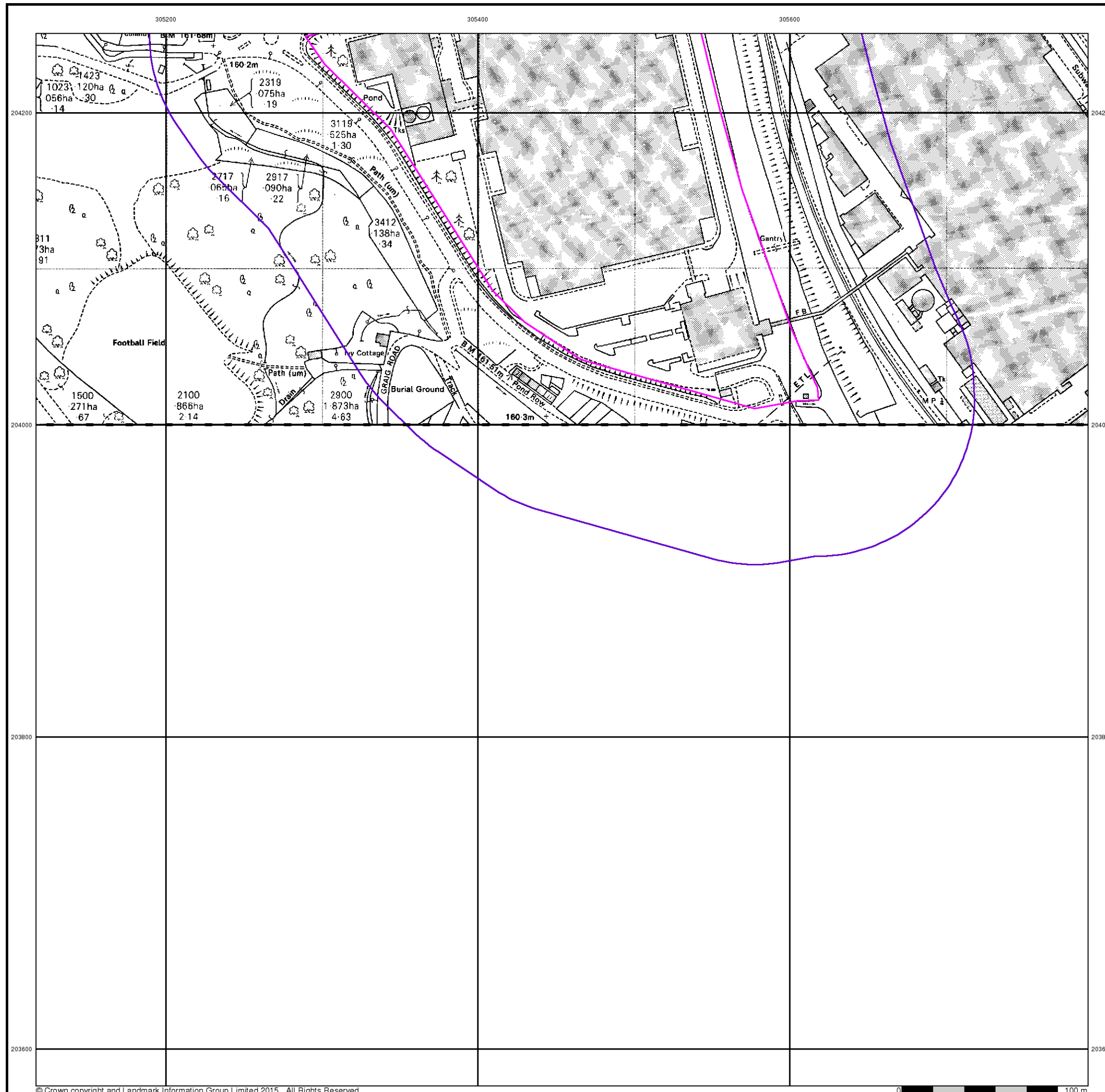
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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Intégral Géotechnique

Additional SIMs

Published 1986 - 1988

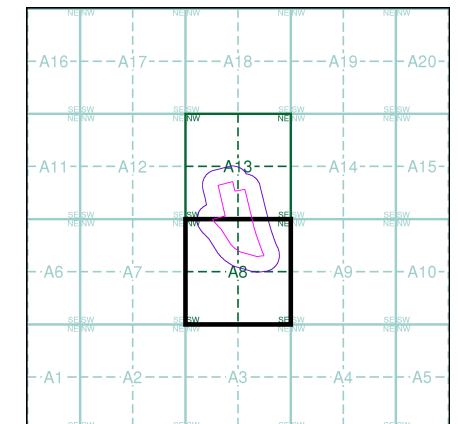
Source map scale - 1:2,500

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)

SO0504	1986	1:2,500
SO0503	1988	1:2,500

Historical Map - Segment A8



Order Details

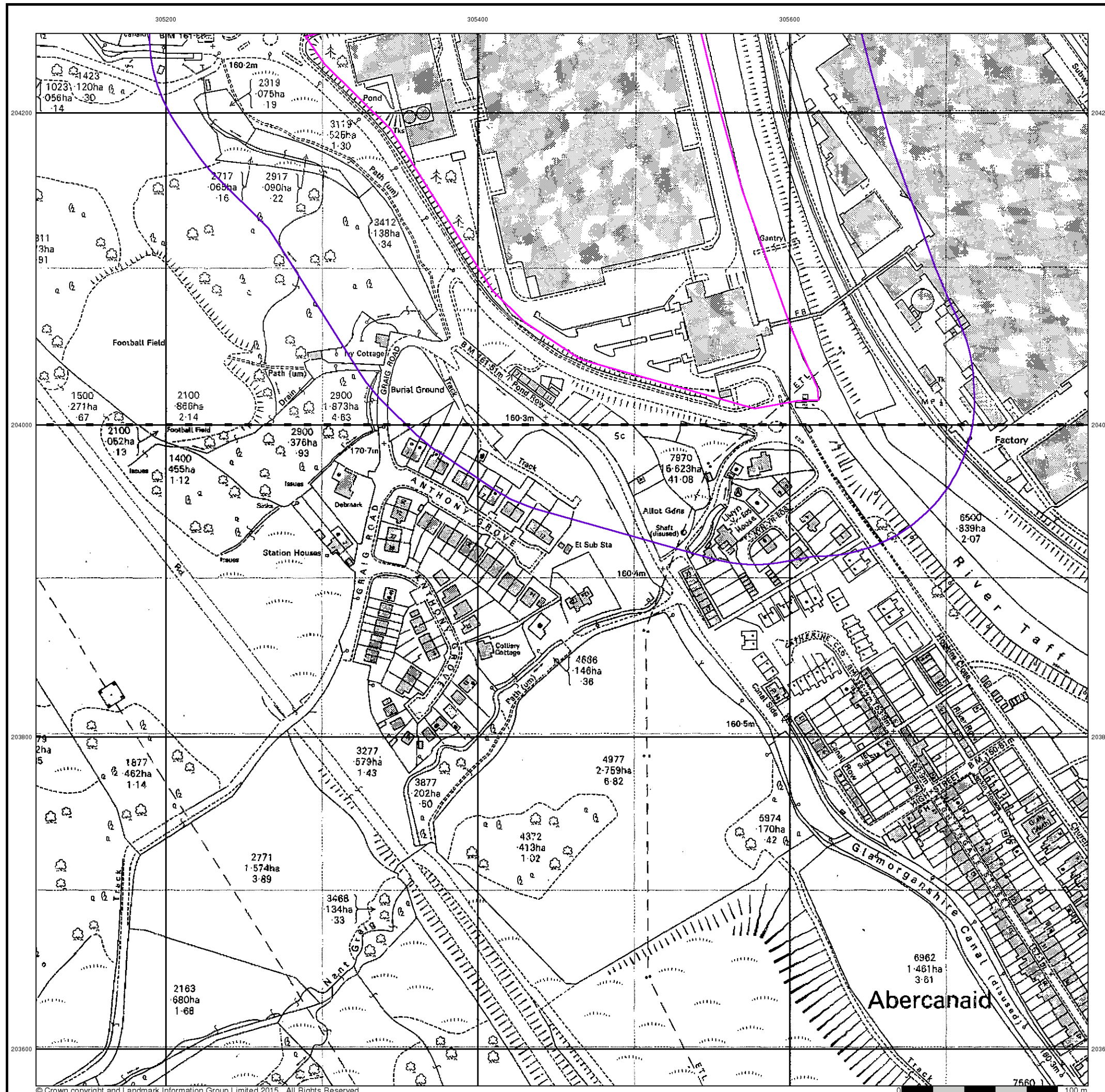
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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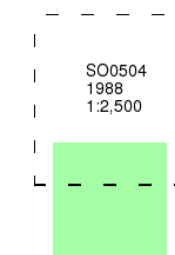
Additional SIMs

Published 1988

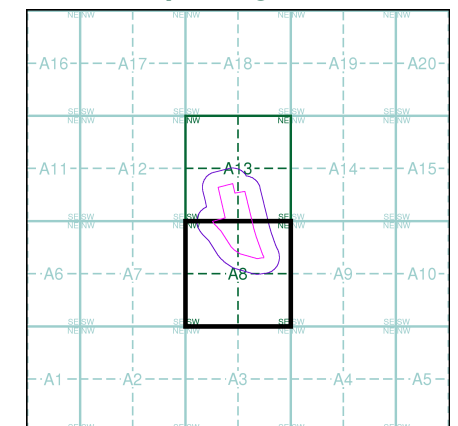
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8

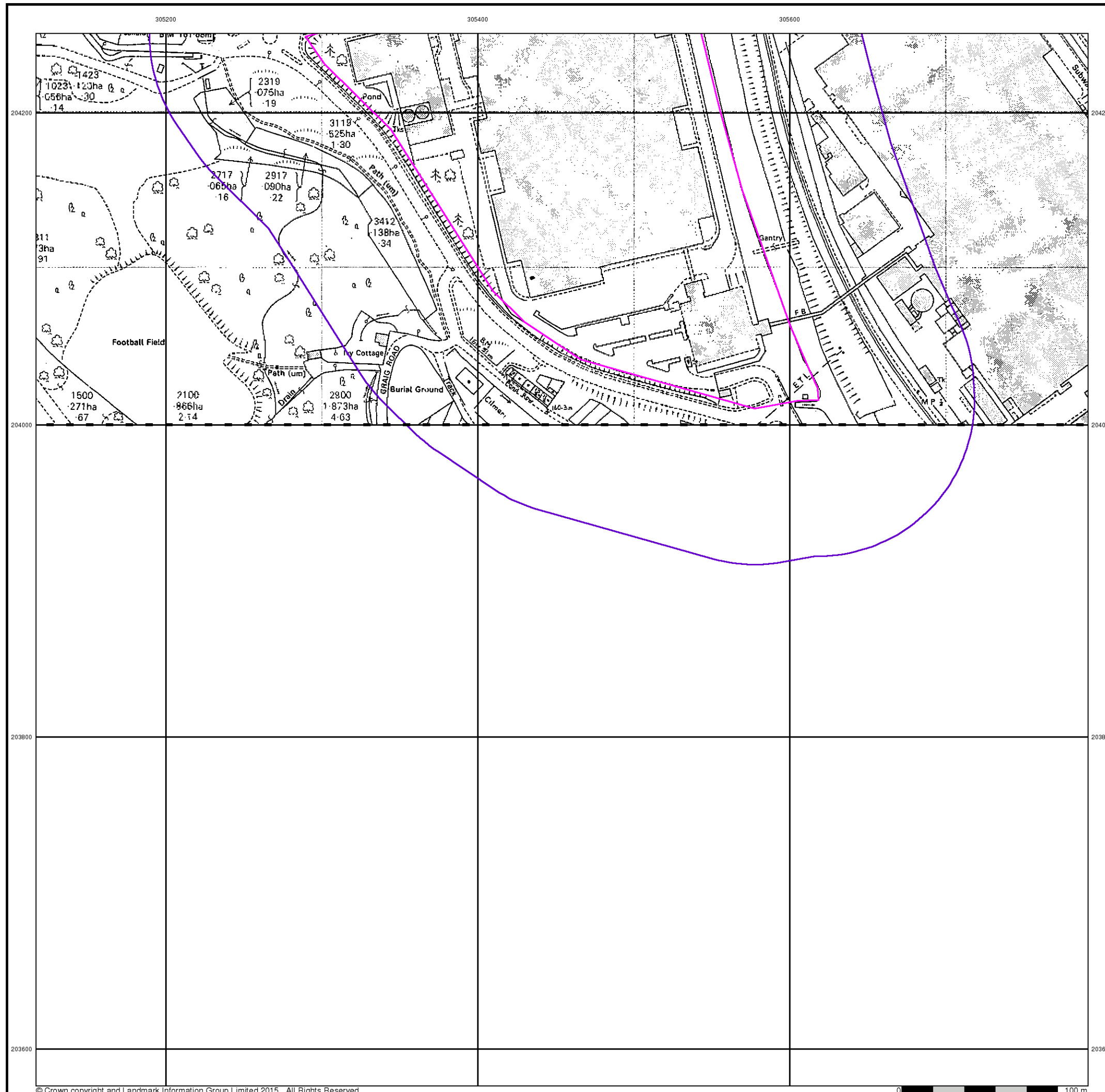


Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ





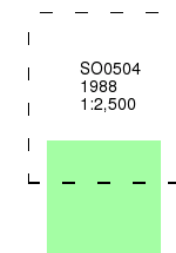
Additional SIMs

Published 1988

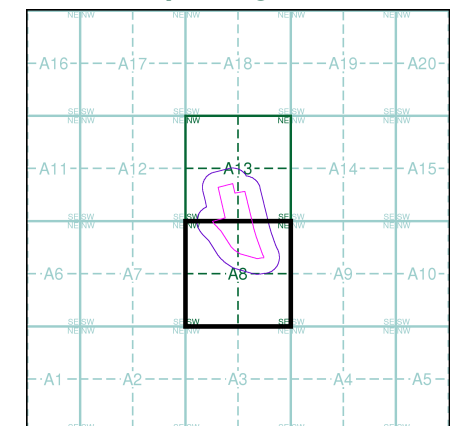
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

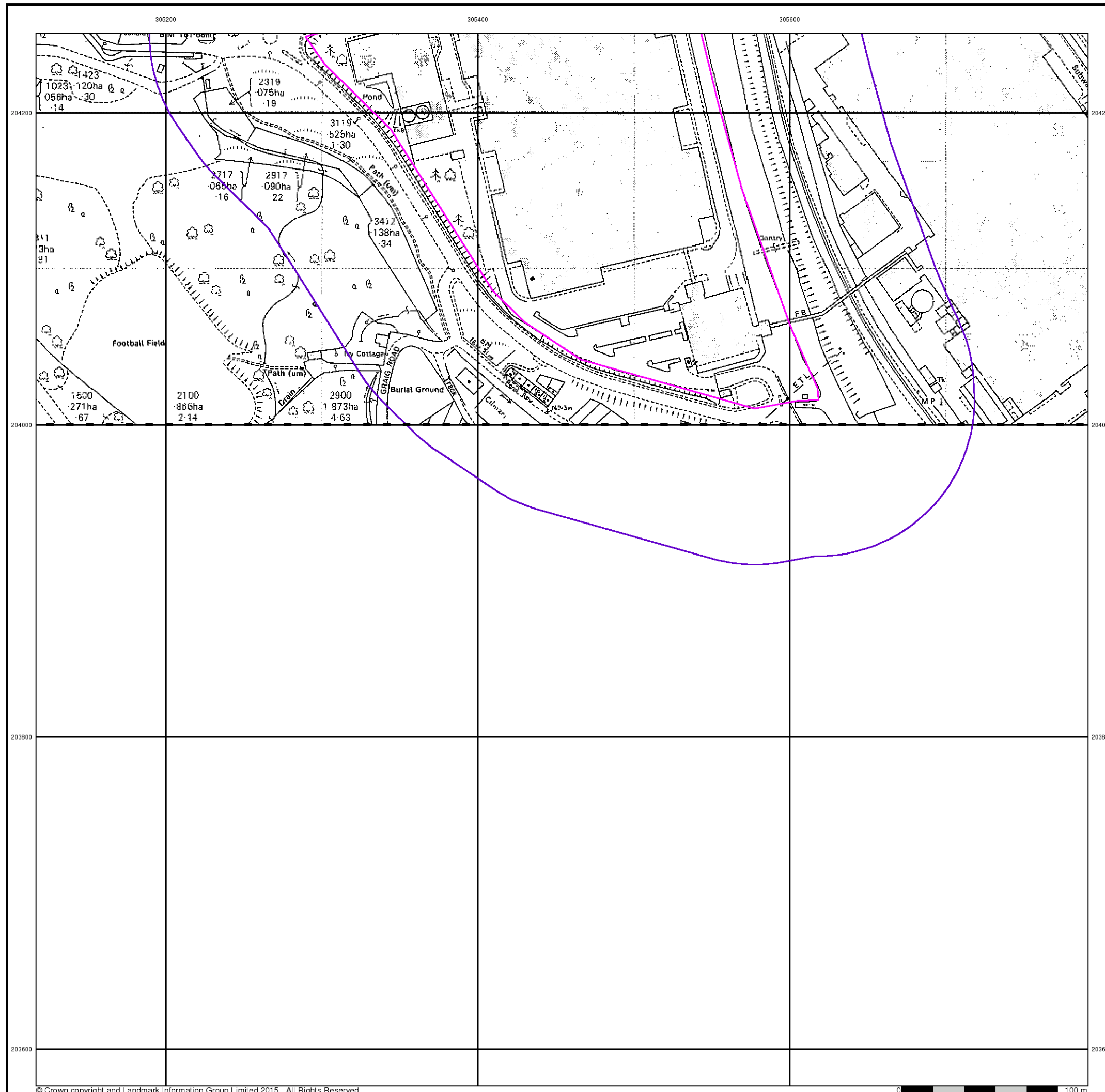
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Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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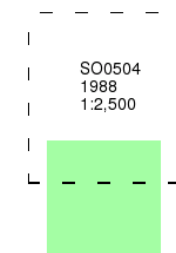
Additional SIMs

Published 1988

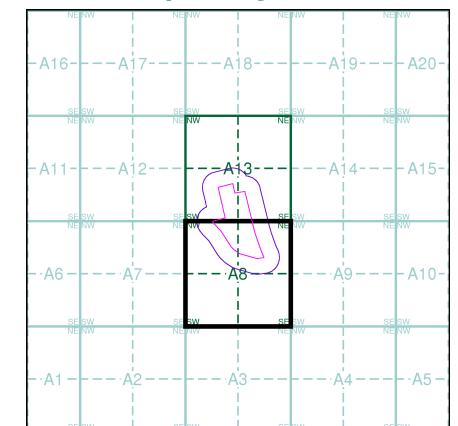
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

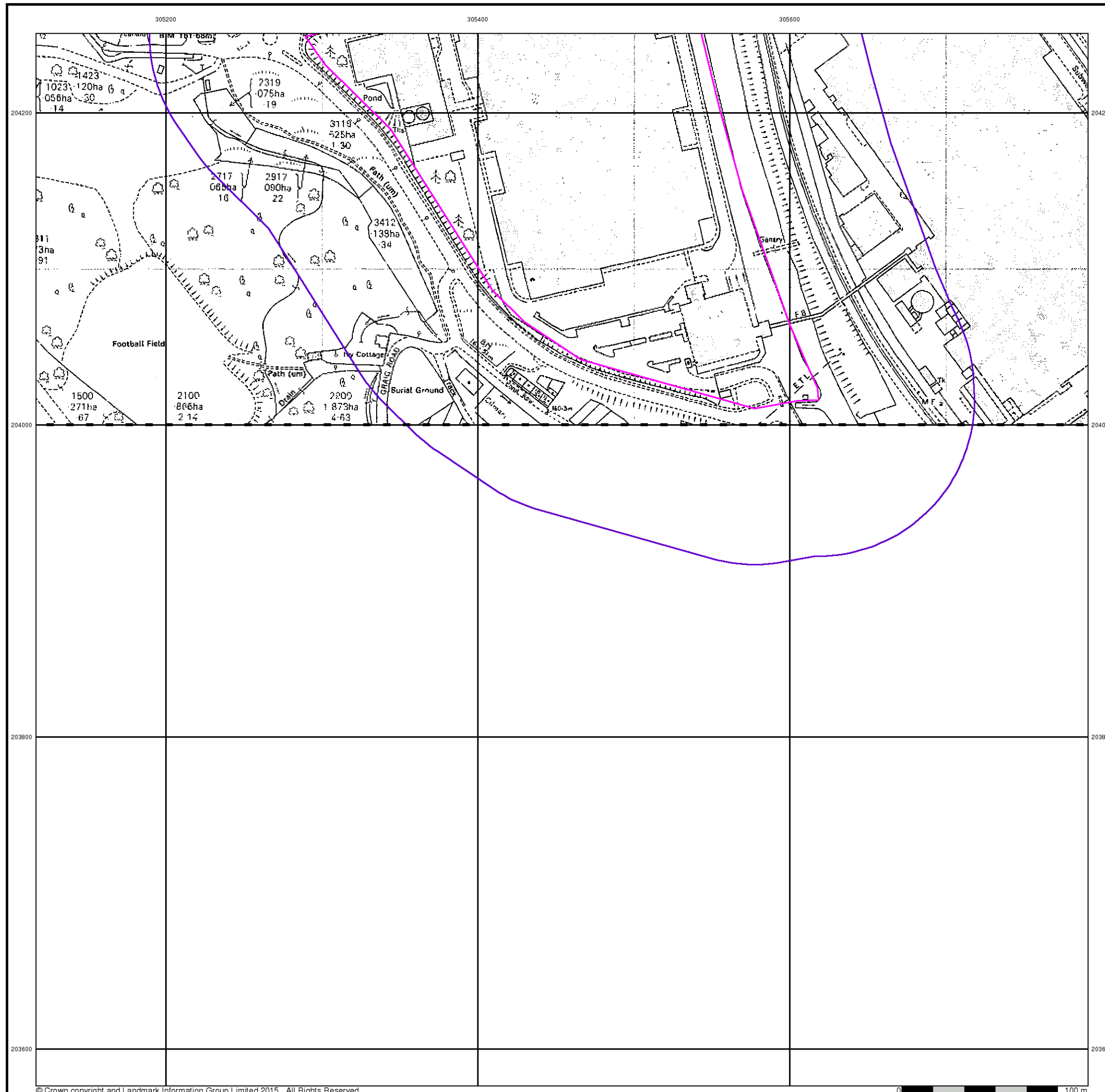
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1993

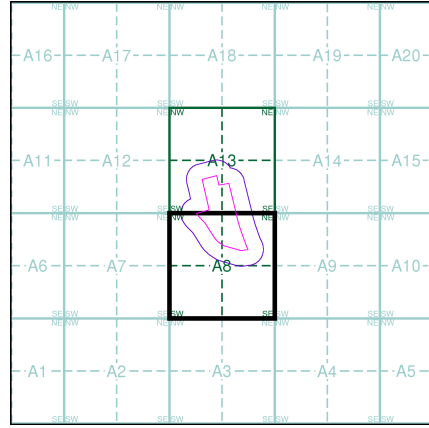
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SO0504	1993	1:2,500
SO0503	1993	1:2,500

Historical Map - Segment A8



Order Details

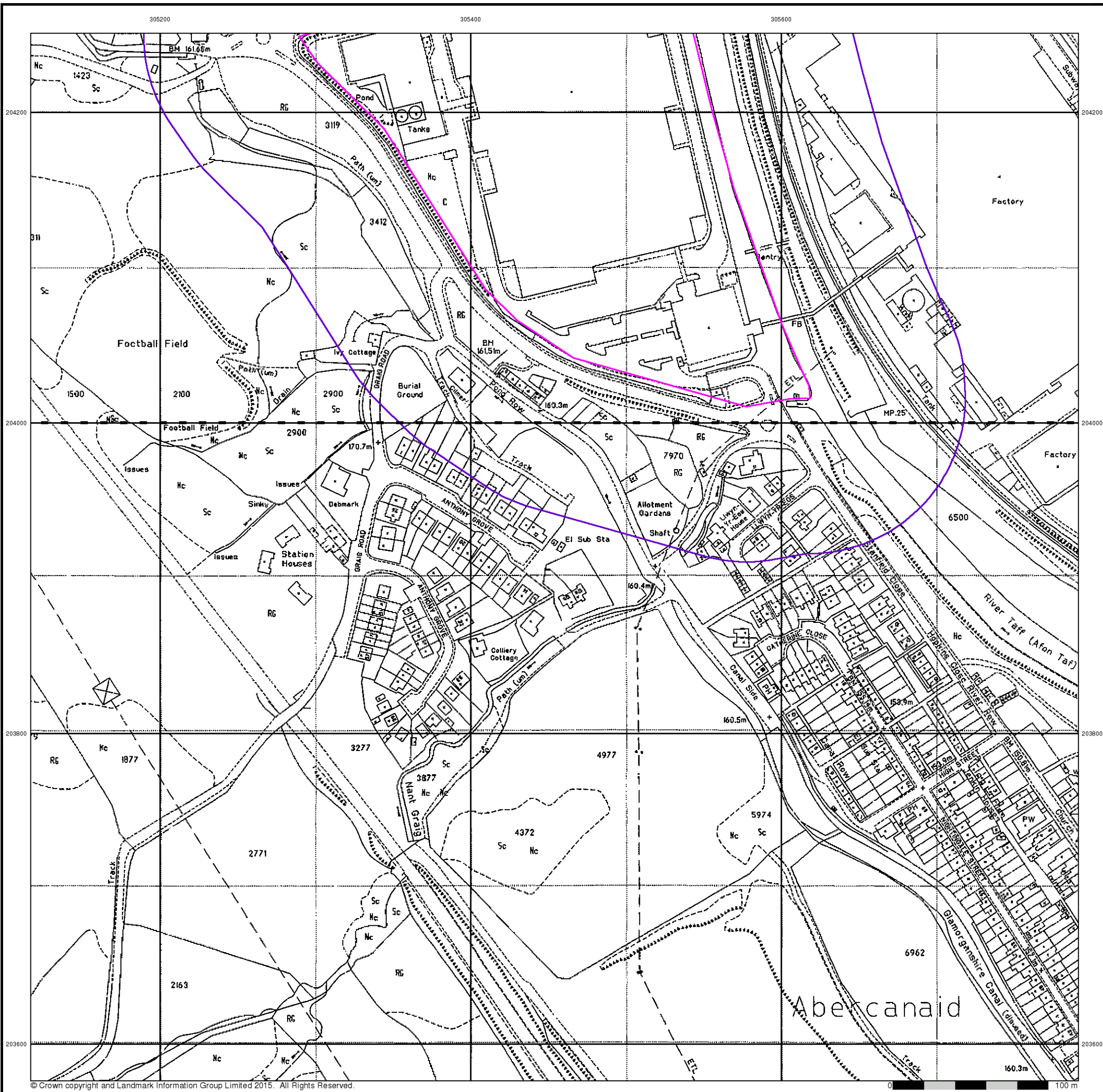
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1993

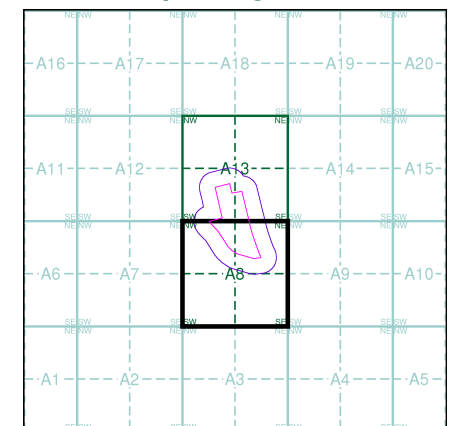
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SO0504	
1993	
1:2,500	
SO0503	
1993	
1:2,500	

Historical Map - Segment A8



Order Details

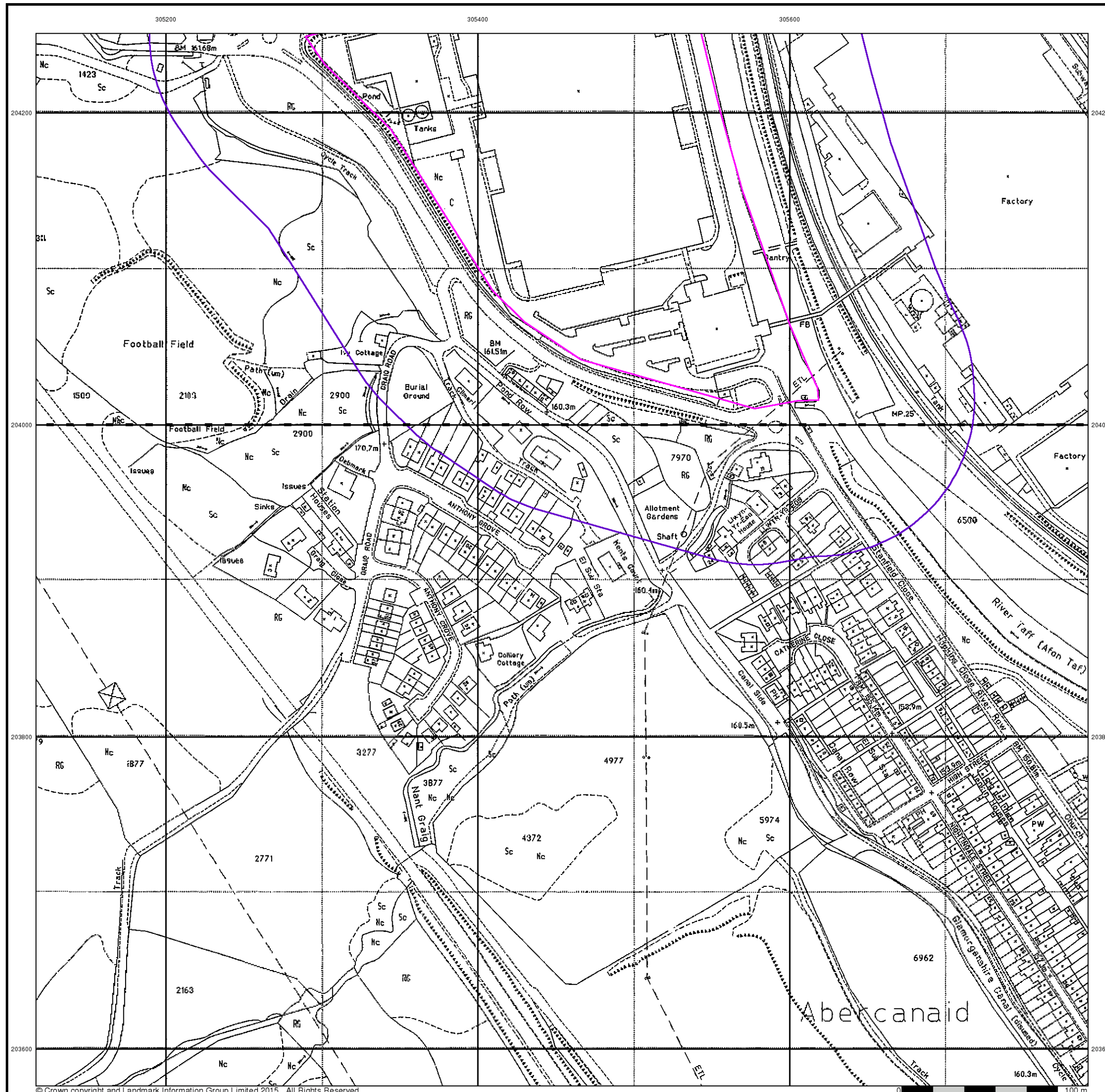
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

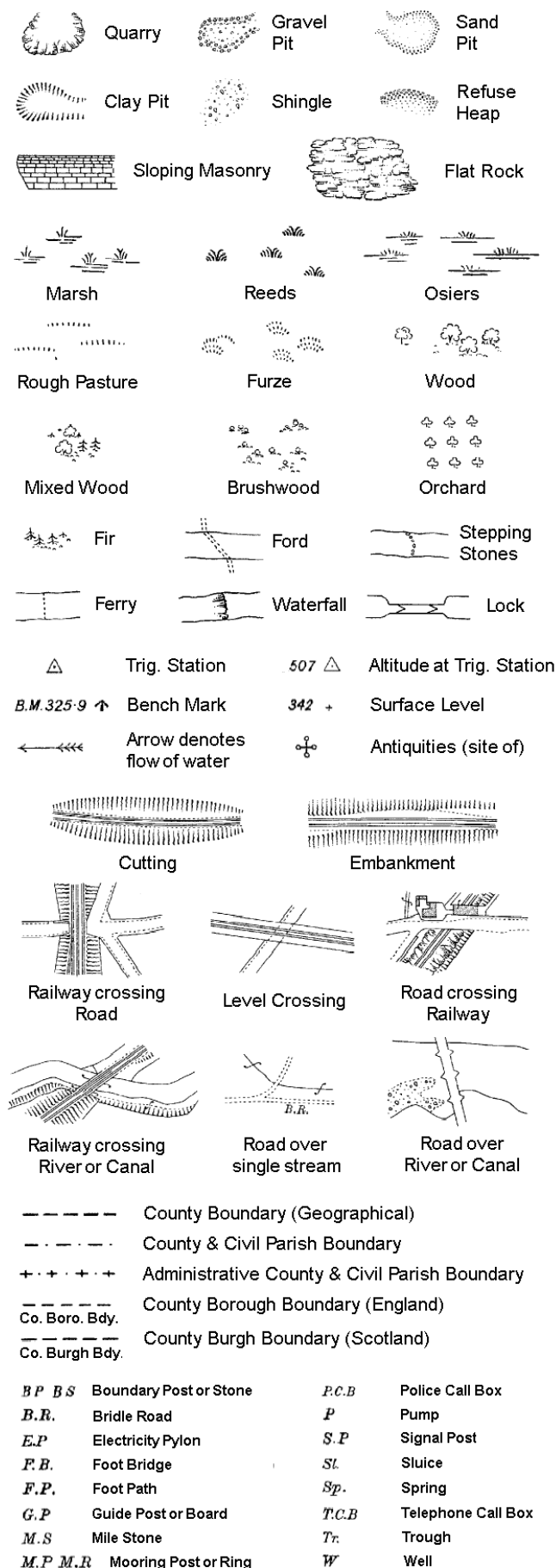


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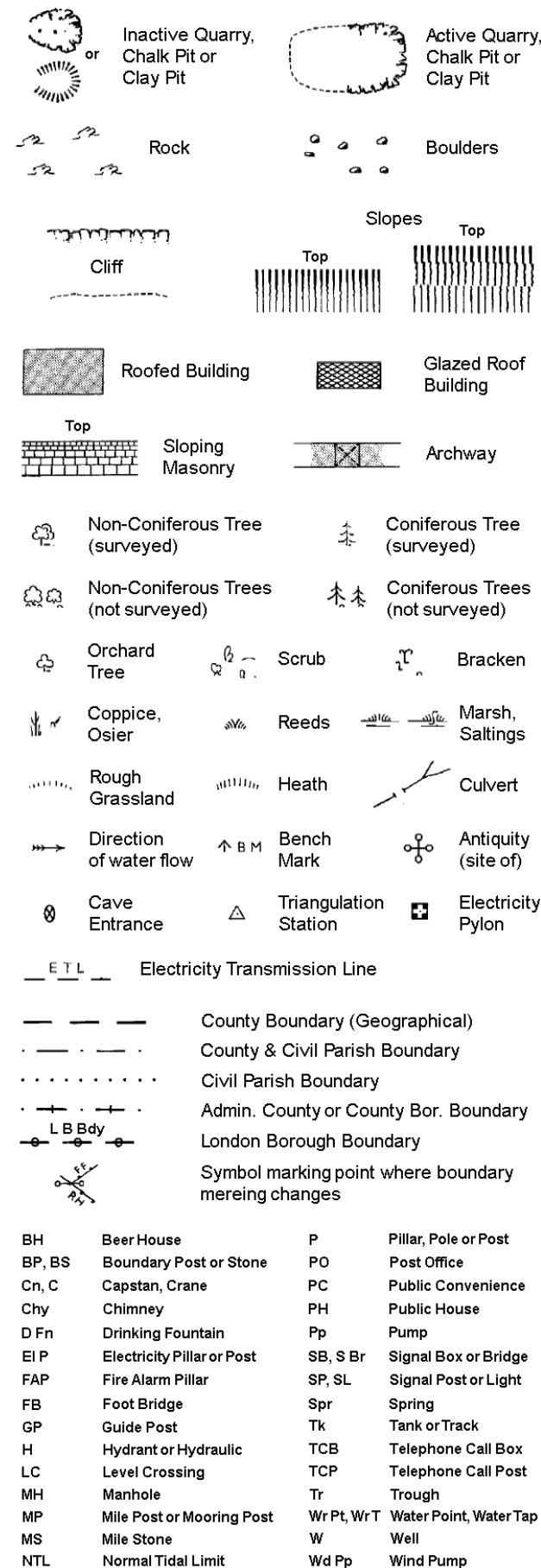


Historical Mapping Legends

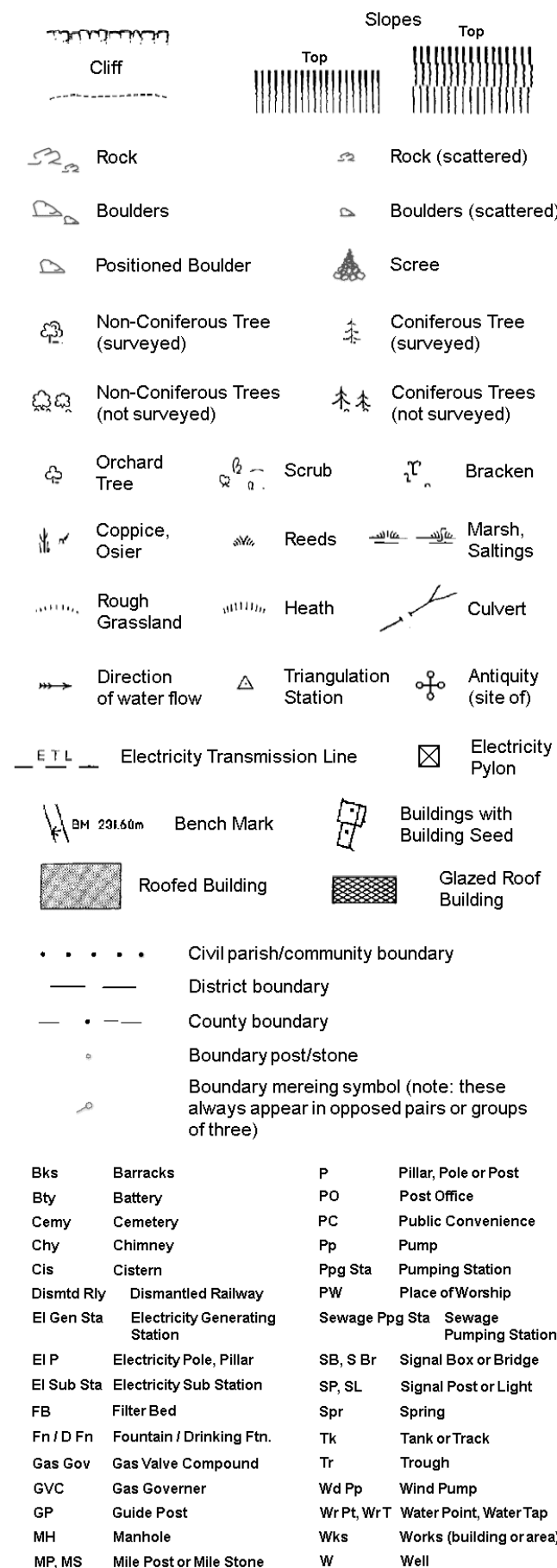
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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

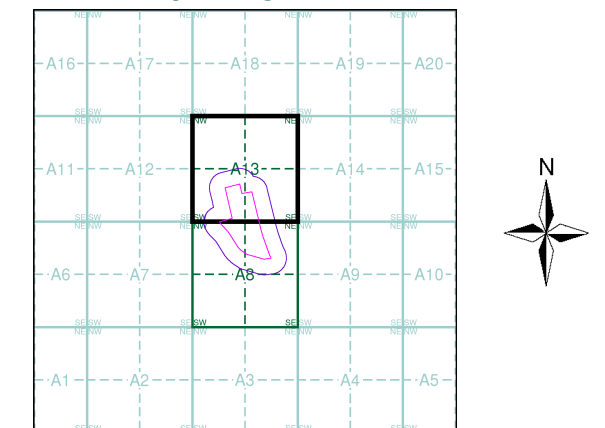


Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1876 - 1881	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1919	4
Ordnance Survey Plan	1:2,500	1964	5
Ordnance Survey Plan	1:2,500	1972	6
Additional SIMs	1:2,500	1979	7
Ordnance Survey Plan	1:2,500	1986	8
Additional SIMs	1:2,500	1986	9
Additional SIMs	1:2,500	1988	10
Additional SIMs	1:2,500	1988	11
Additional SIMs	1:2,500	1988	12
Additional SIMs	1:2,500	1988	13
Large-Scale National Grid Data	1:2,500	1993	14
Large-Scale National Grid Data	1:2,500	1993	15

Historical Map - Segment A13



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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Intégral Géotechnique

Glamorganshire

Published 1876 - 1881

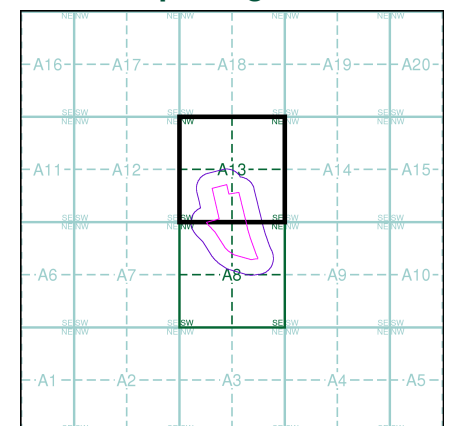
Source map scale - 1:2,500

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)

012_05
1876
1:2,500
012_09
1881
1:2,500

Historical Map - Segment A13



Order Details

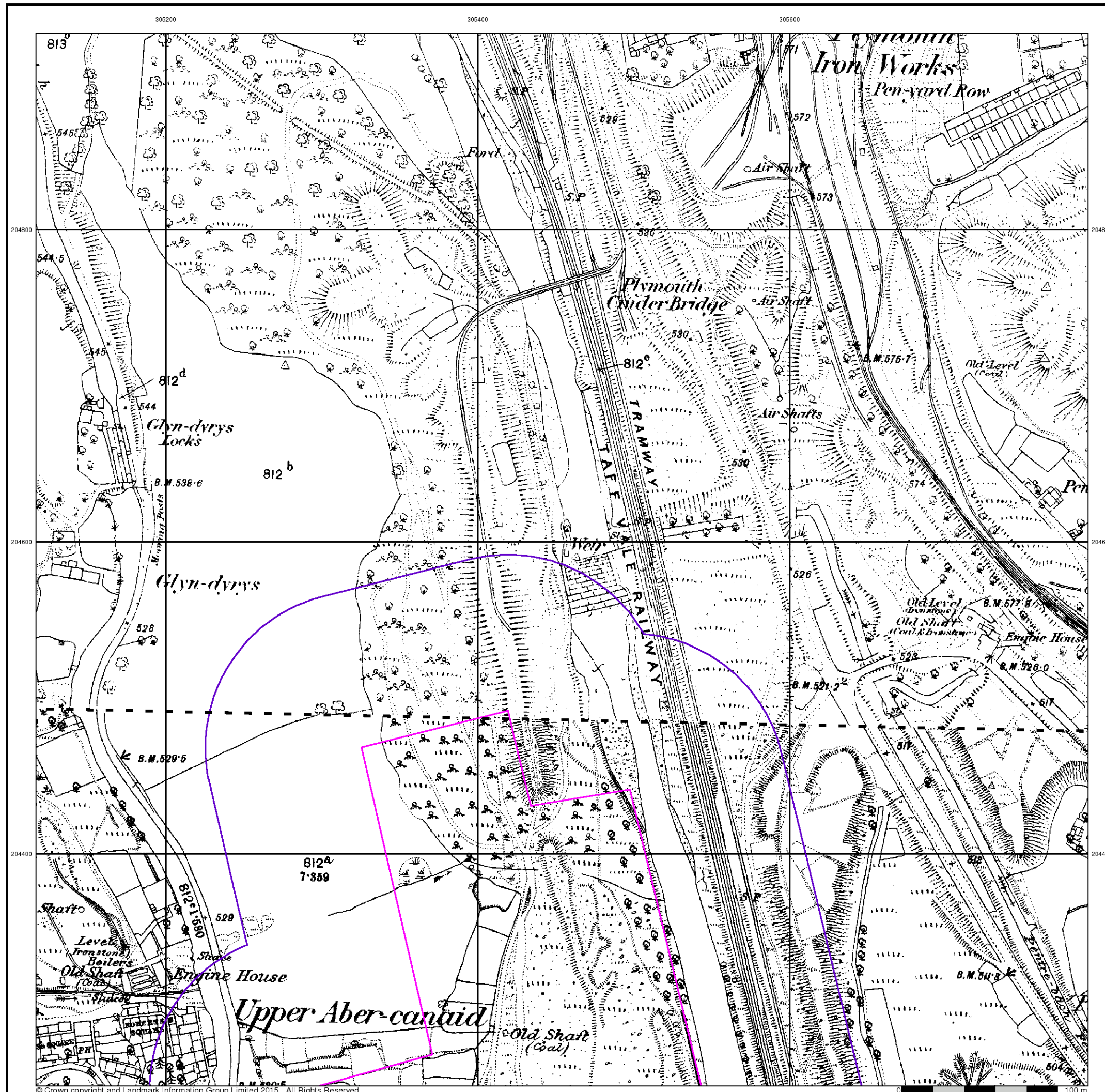
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
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Site Details

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Intégral Géotechnique

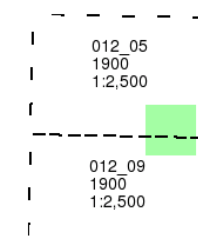
Glamorganshire

Published 1900

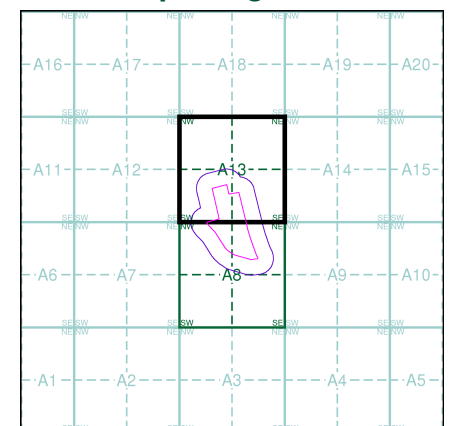
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

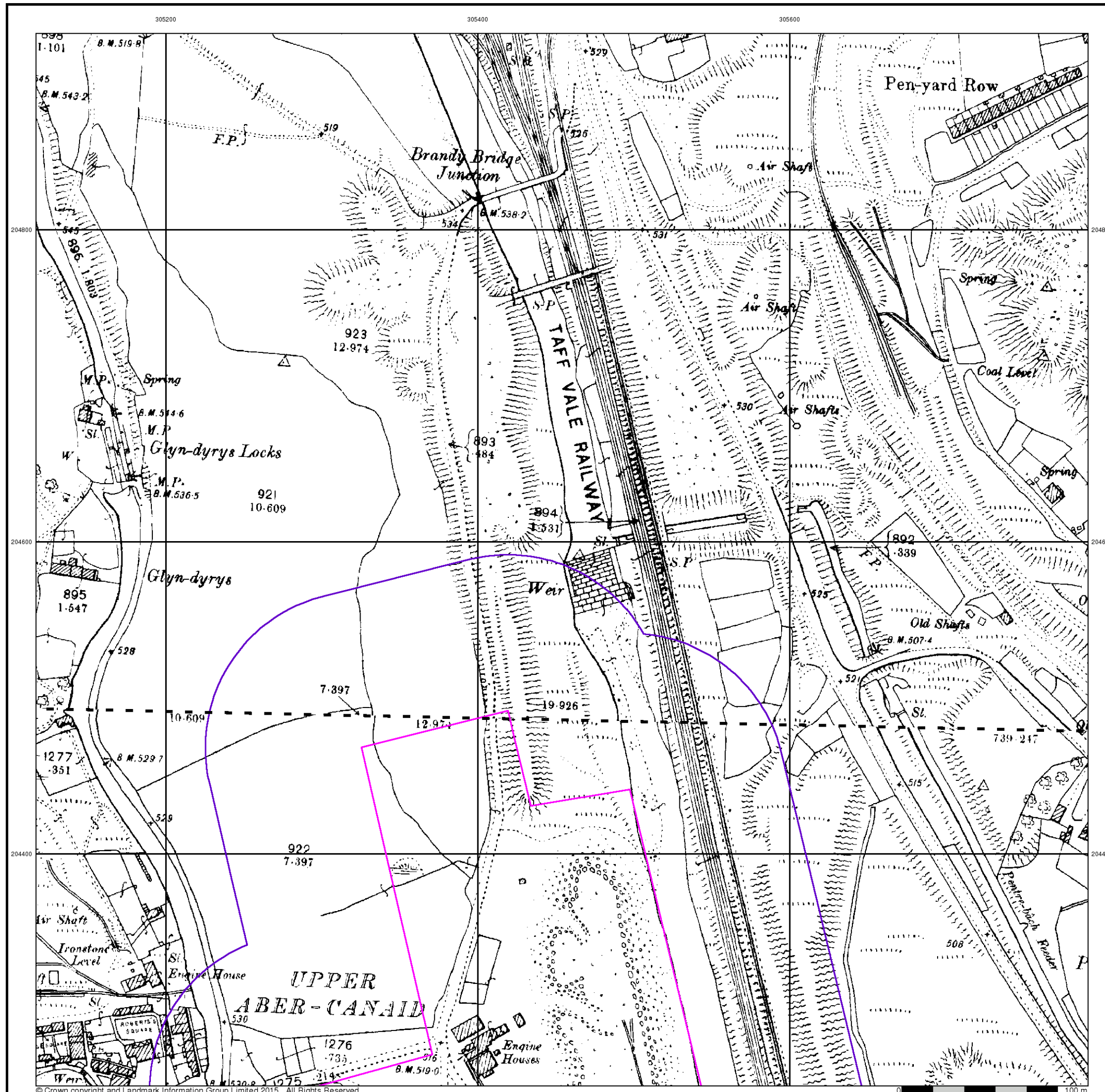
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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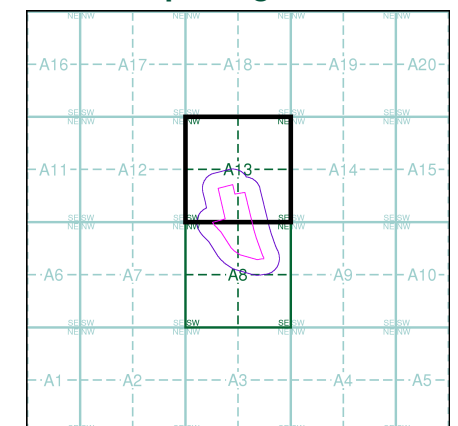


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)

012_05 1919 1:2,500
012_09 1919 1:2,500

Historical Map - Segment A13

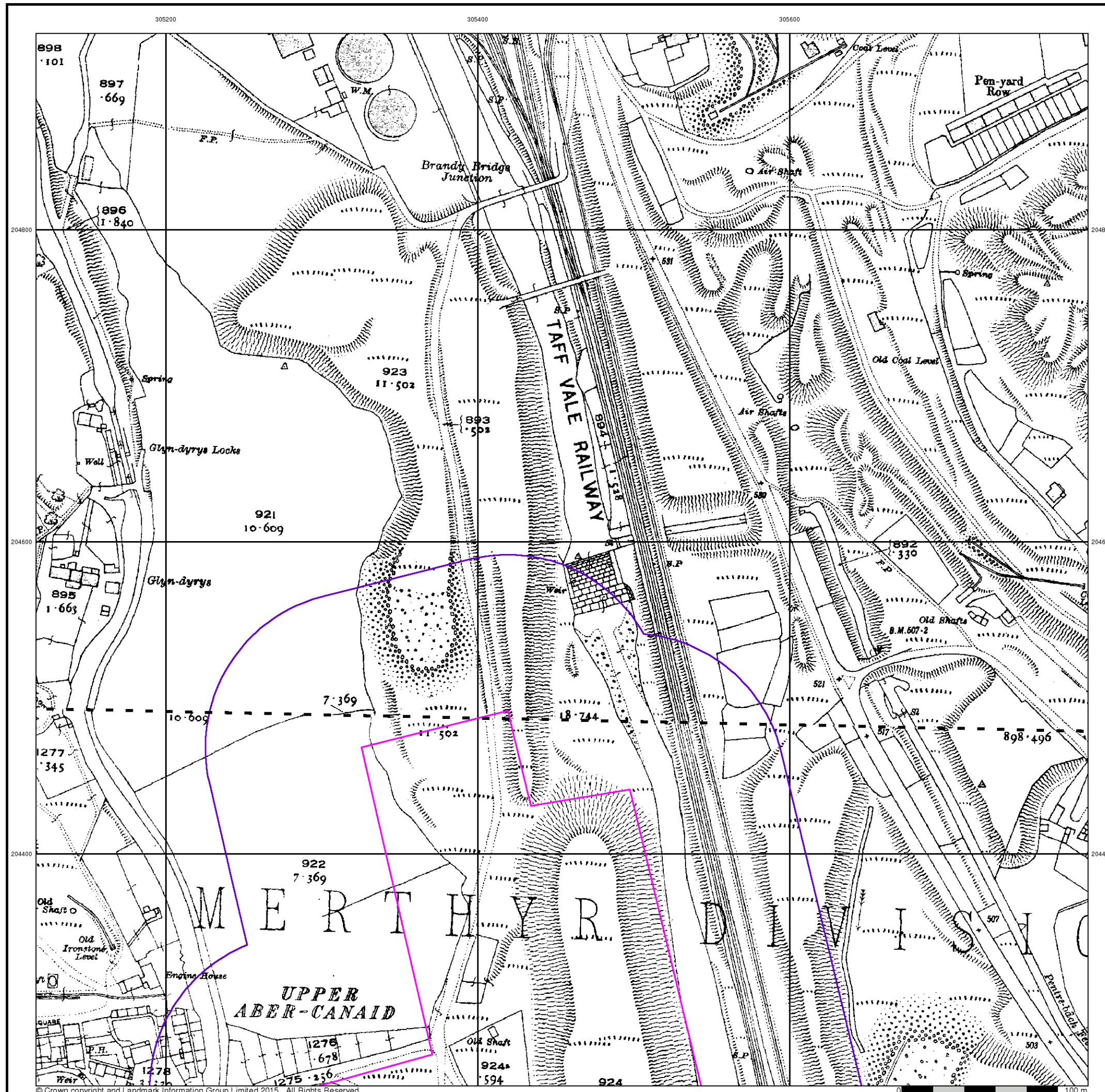


Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



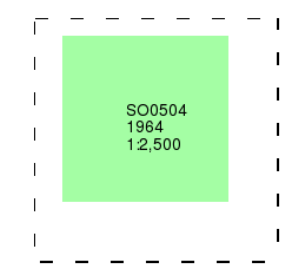
Ordnance Survey Plan

Published 1964

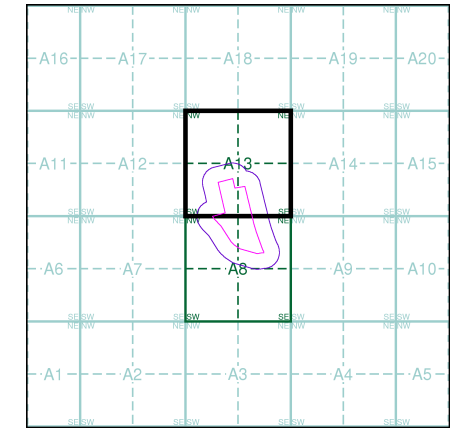
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

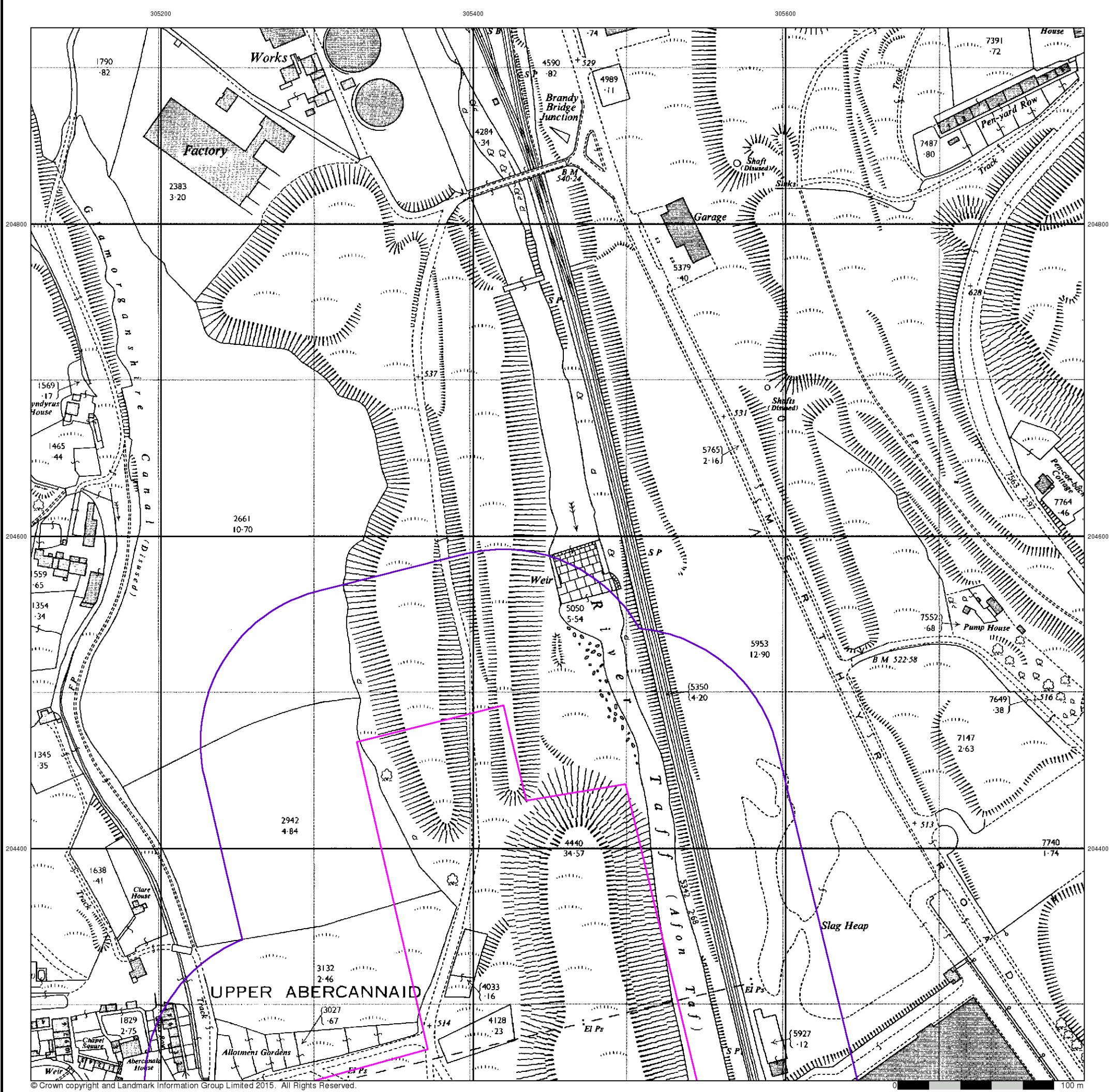
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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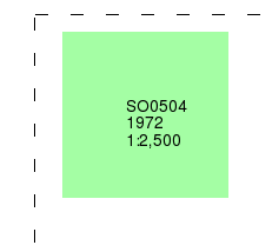
Ordnance Survey Plan

Published 1972

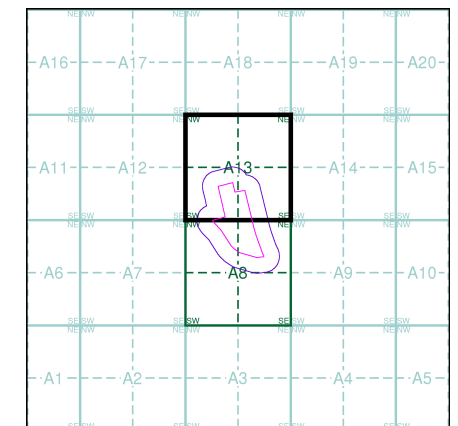
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

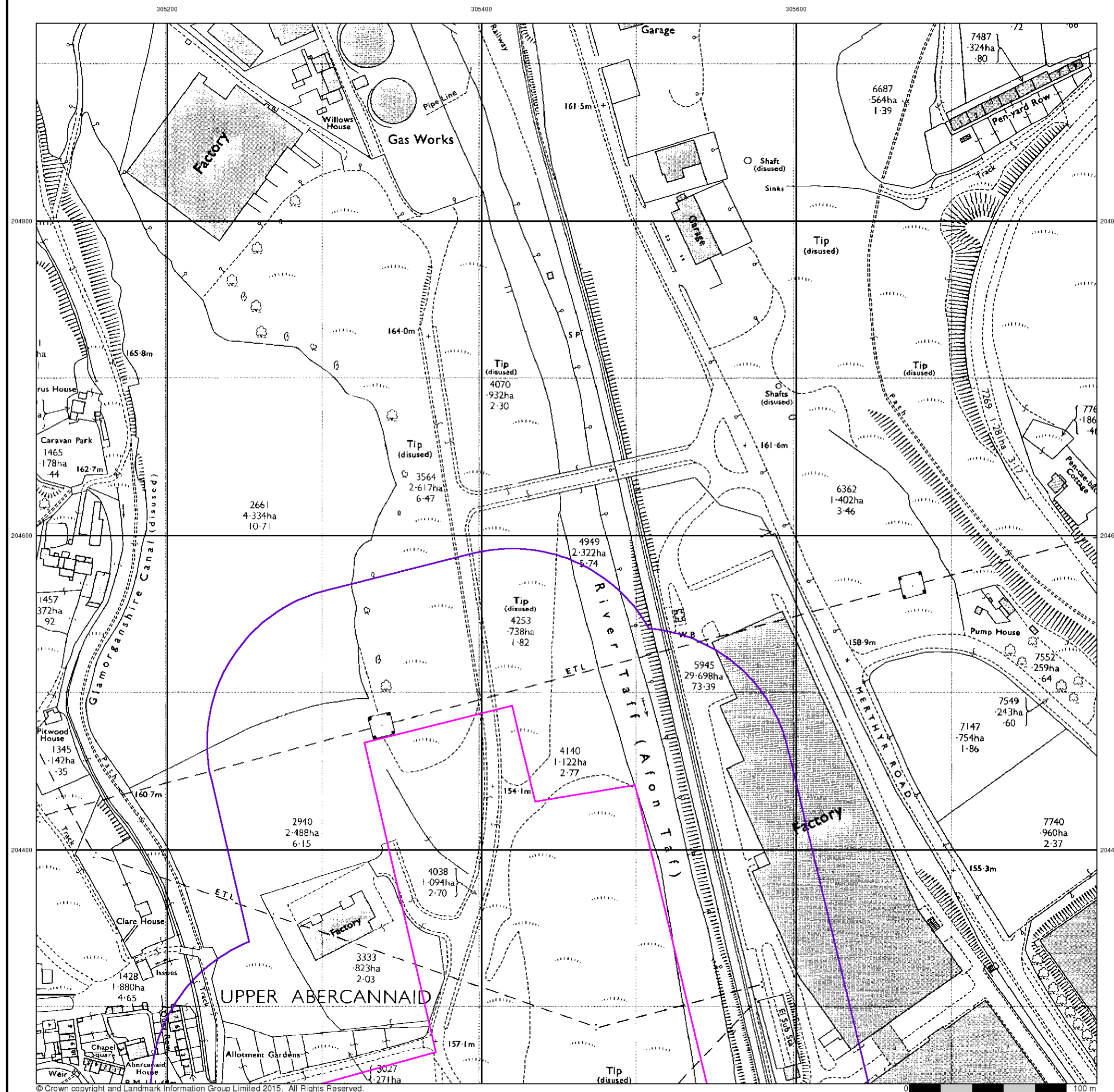


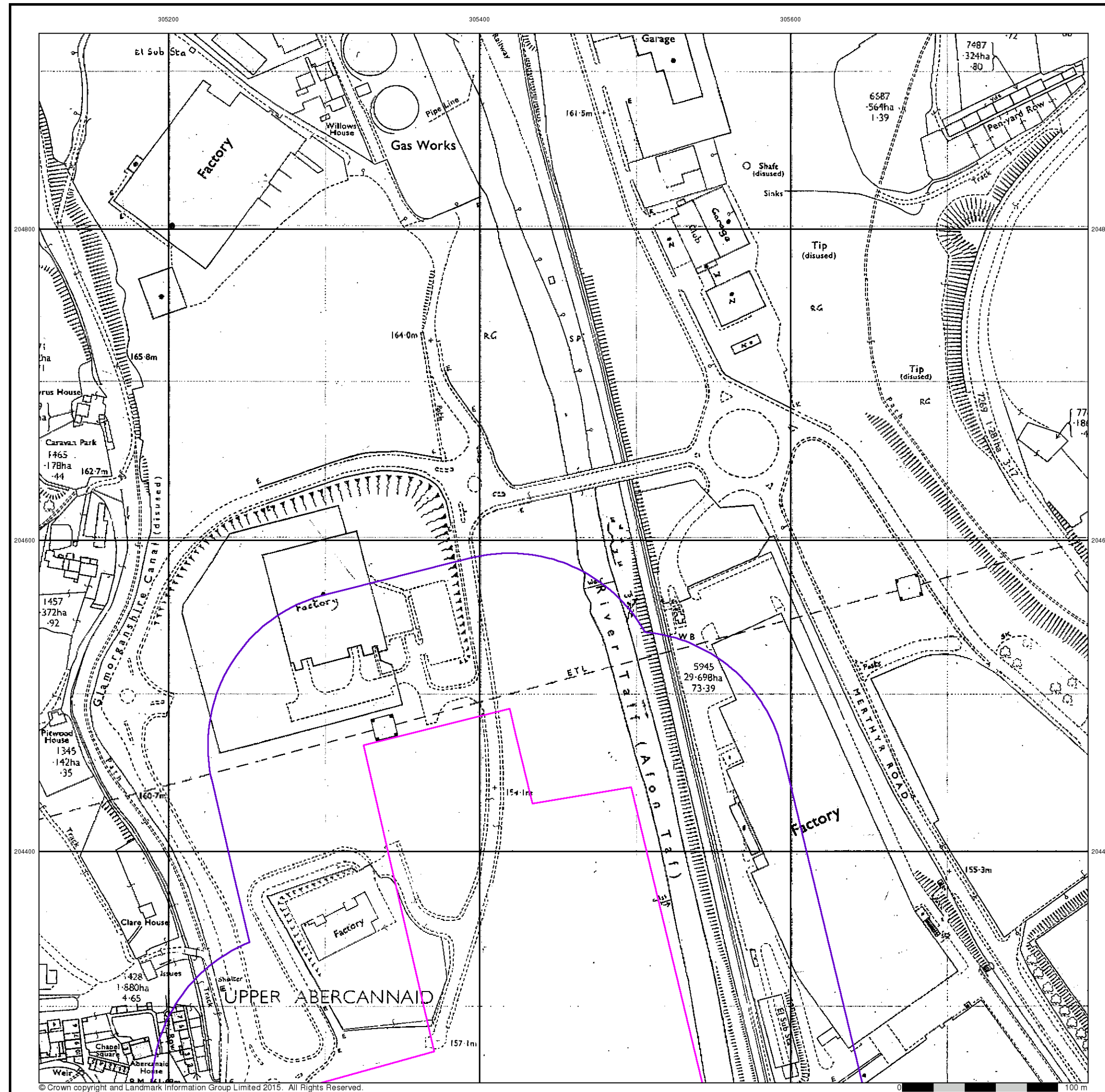
Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ





Intégral Géotechnique

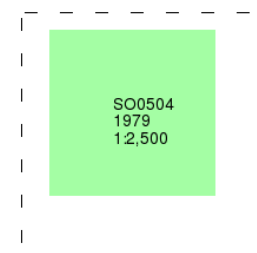
Additional SIMs

Published 1979

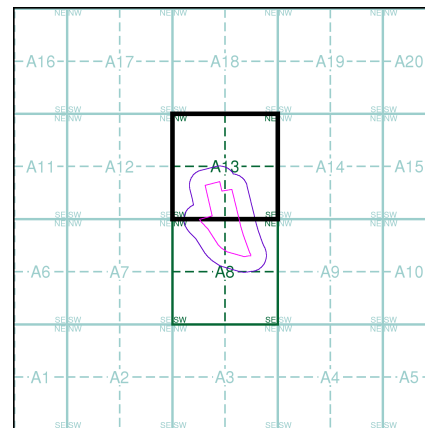
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

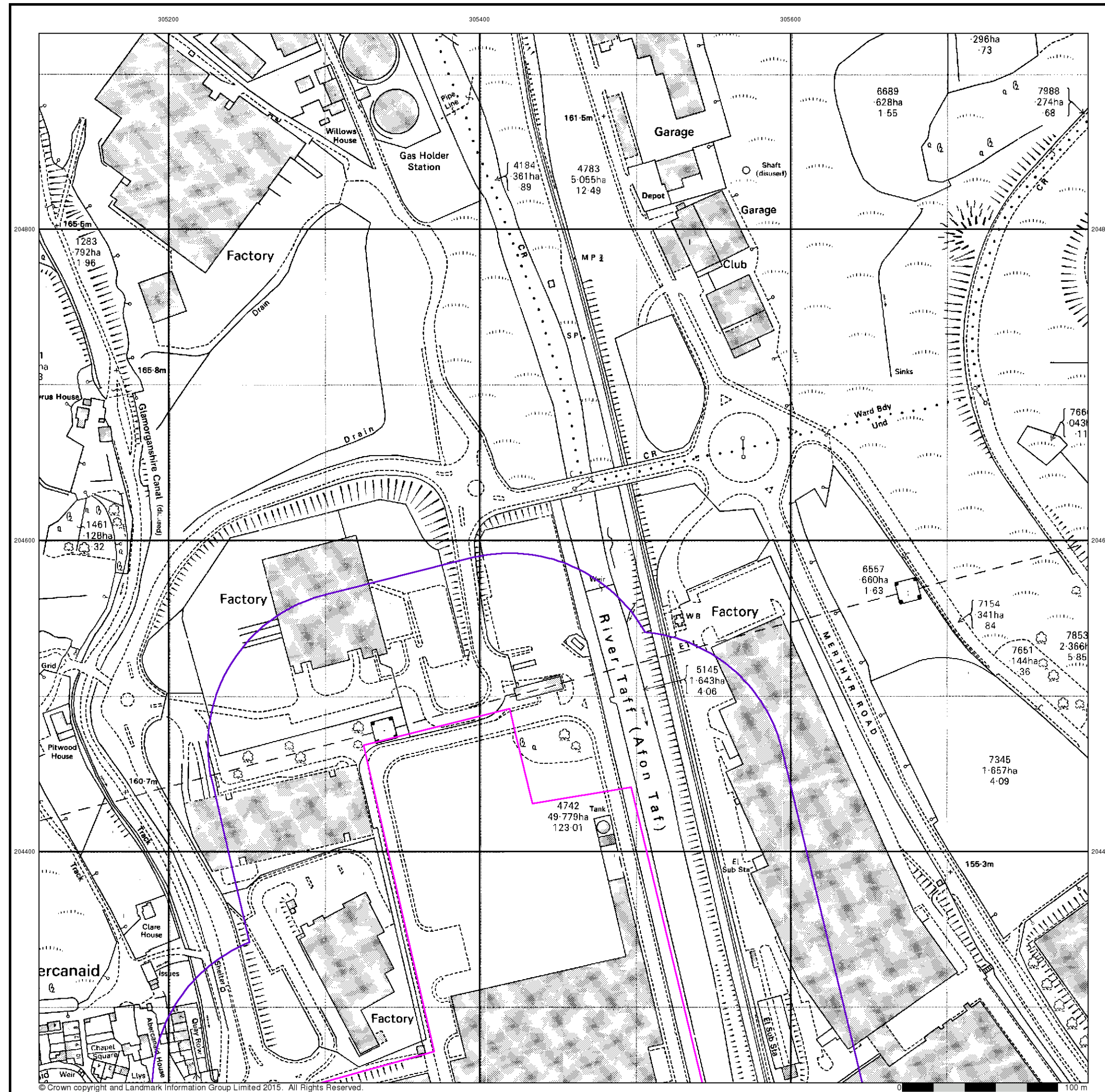
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Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

Unit A, Dragon Parc, Abercannid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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Web: www.envirocheck.co.uk



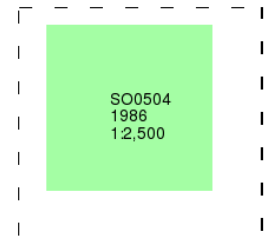
Ordnance Survey Plan

Published 1986

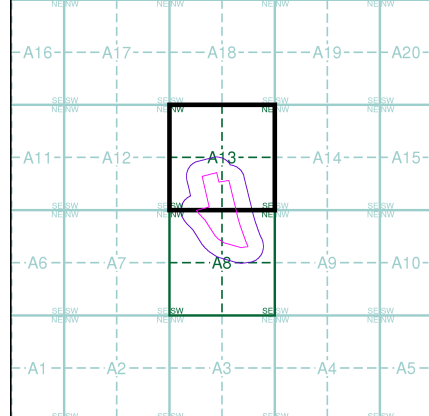
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

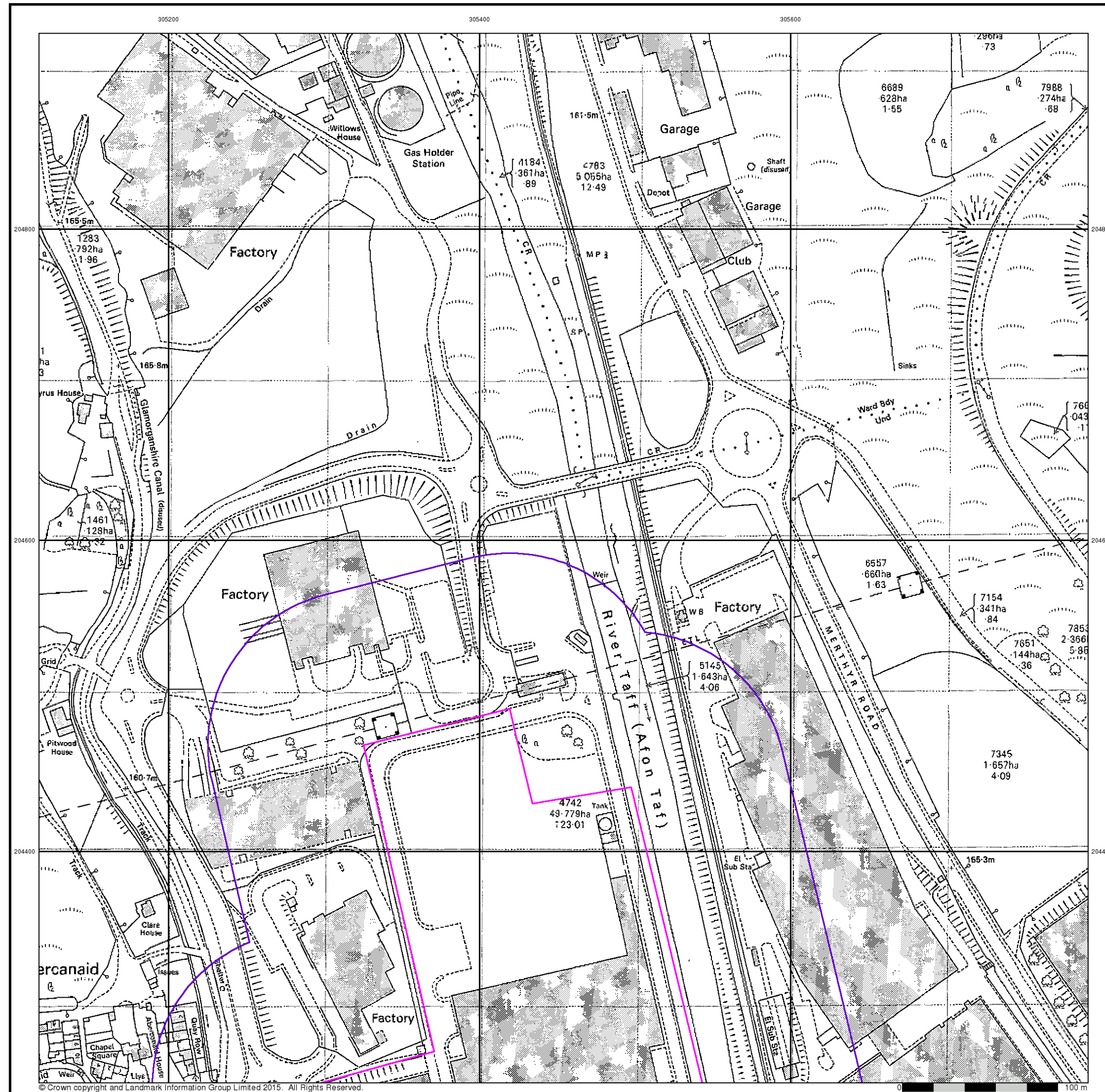
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Site Area (Ha): 8.13
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Site Details

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Intégral Géotechnique

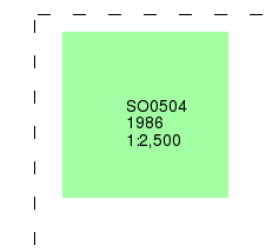
Additional SIMs

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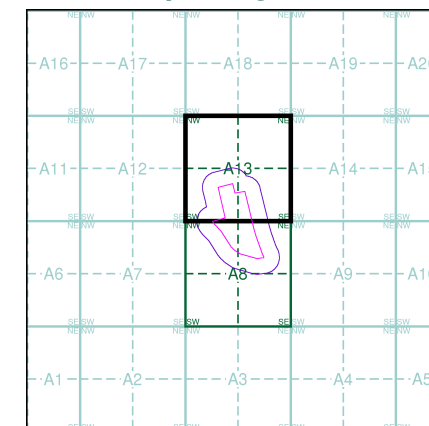
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

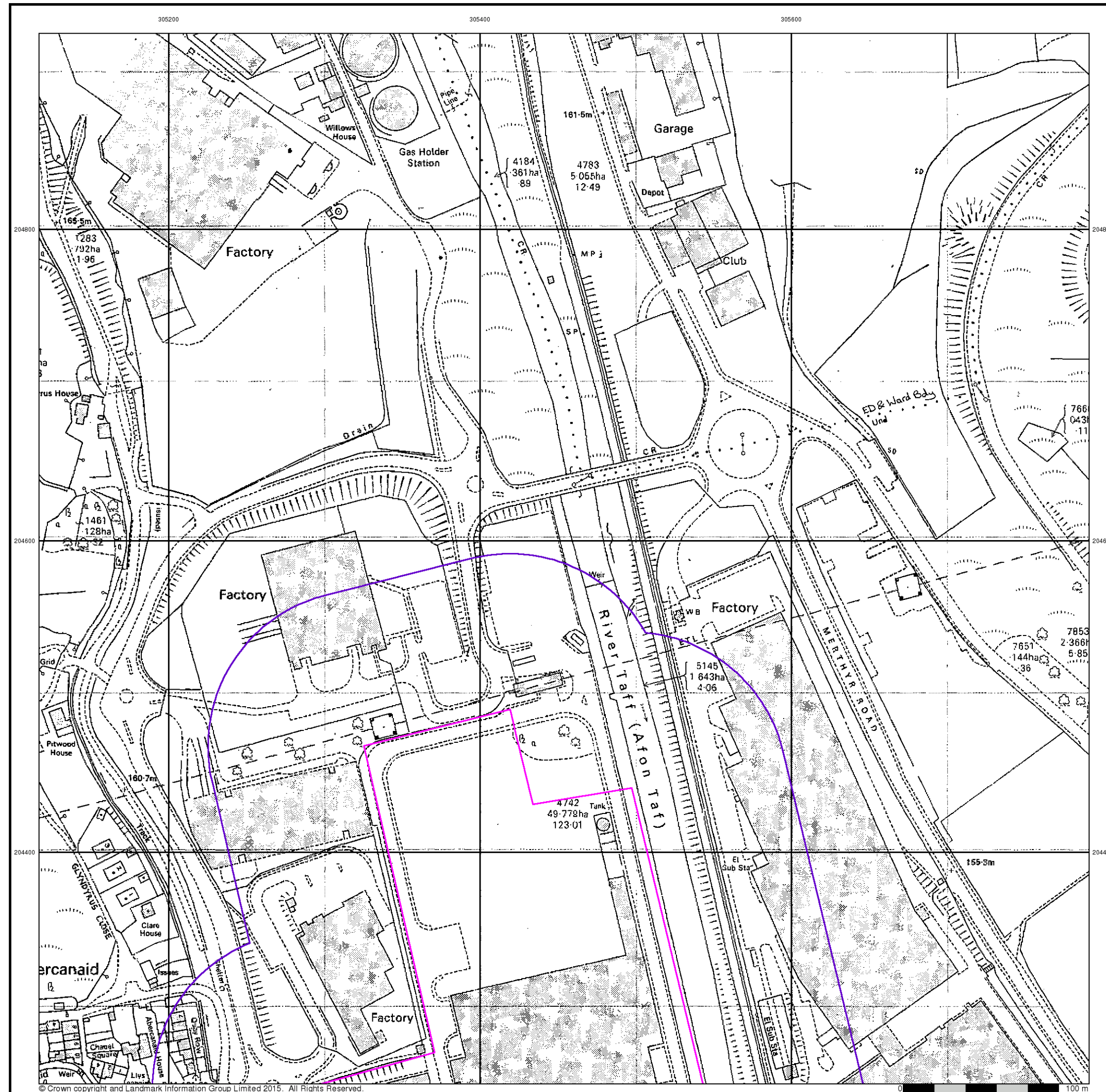
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Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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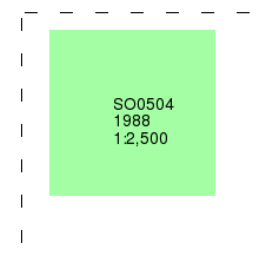
Additional SIMs

Published 1988

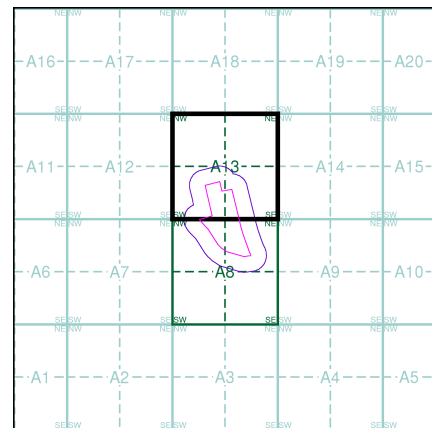
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Map Name(s) and Date(s)



Historical Map - Segment A13



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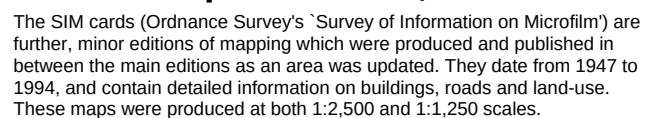
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Slice: A
Site Area (Ha): 8.13
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Site Details

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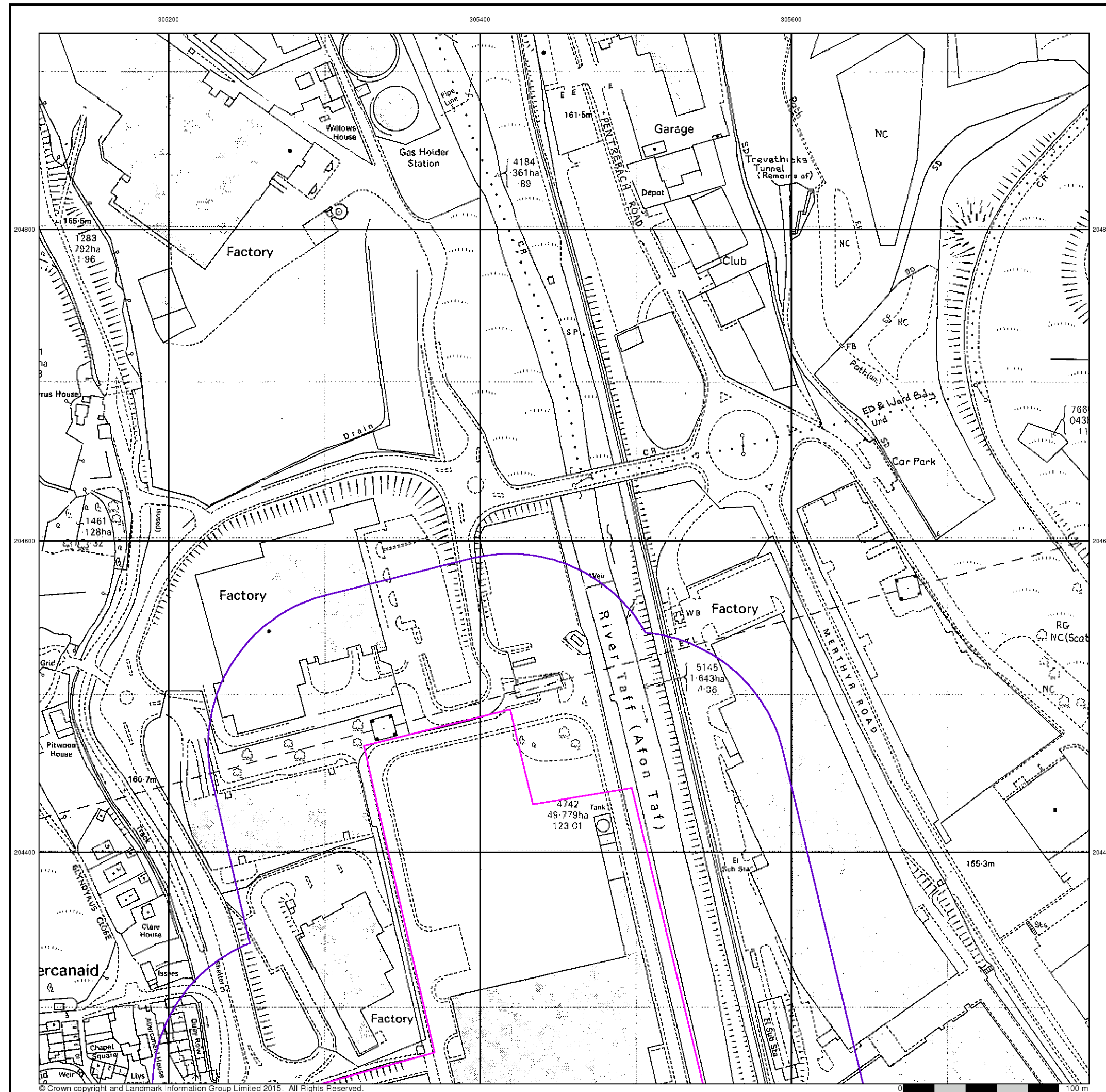
SO0504
1988
12,500



Order Number: 78000054_1_1
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Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ





Intégral Géotechnique

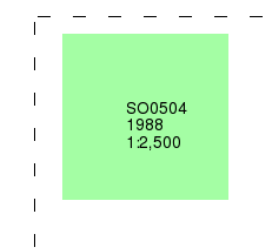
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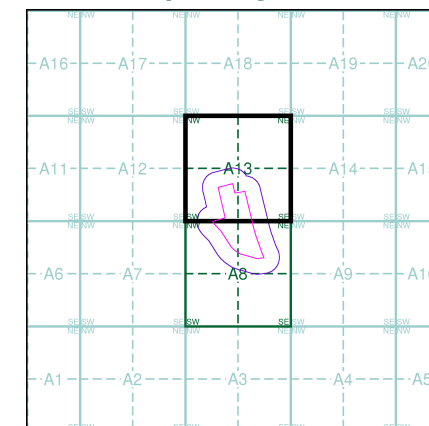
Source map scale - 1:2,500

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Historical Map - Segment A13



Order Details

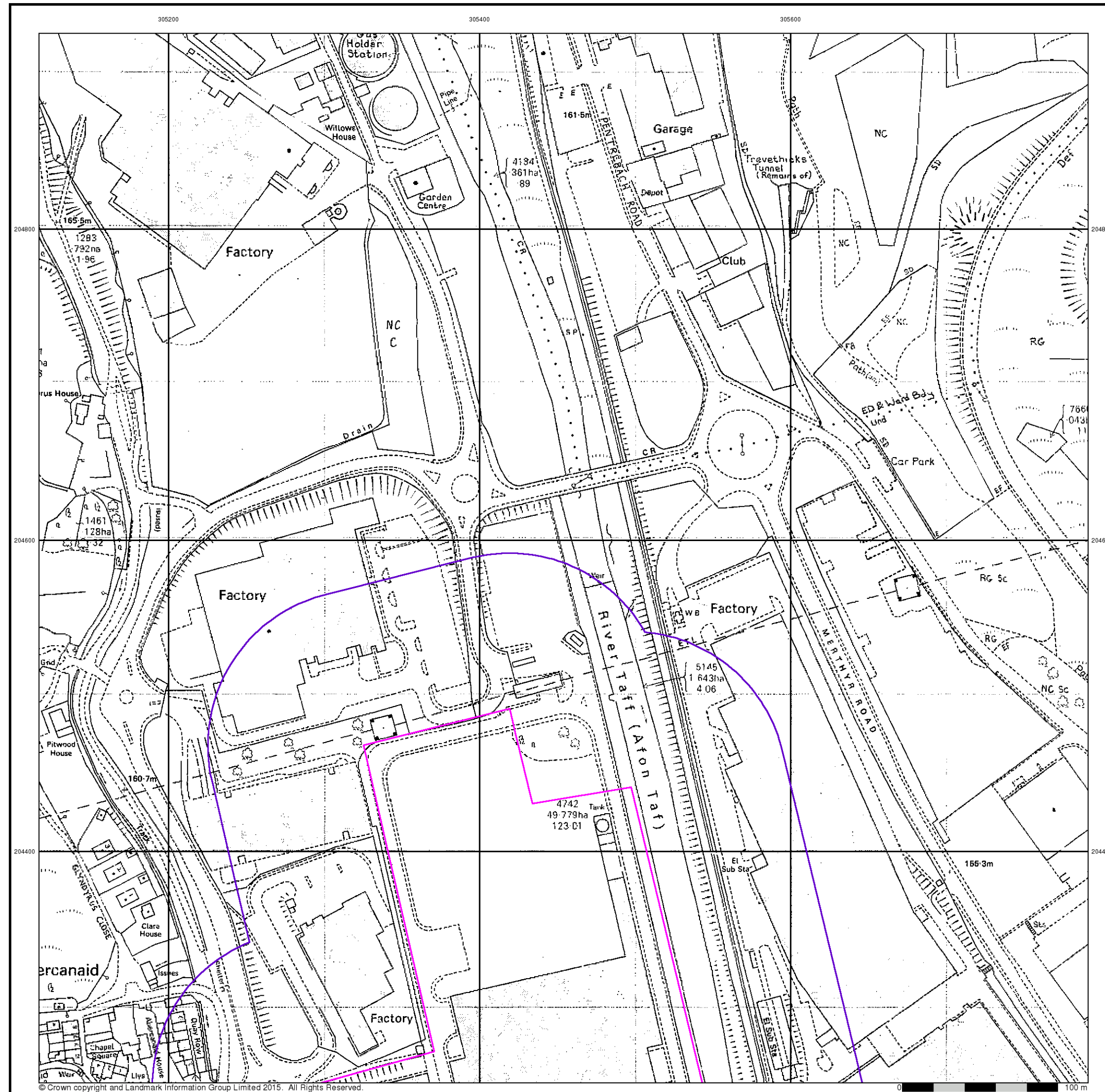
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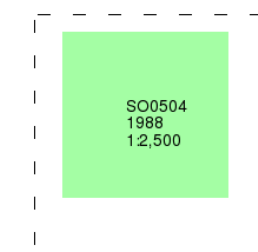
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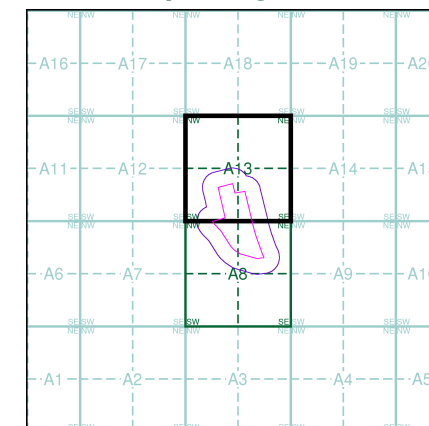
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Map Name(s) and Date(s)



Historical Map - Segment A13



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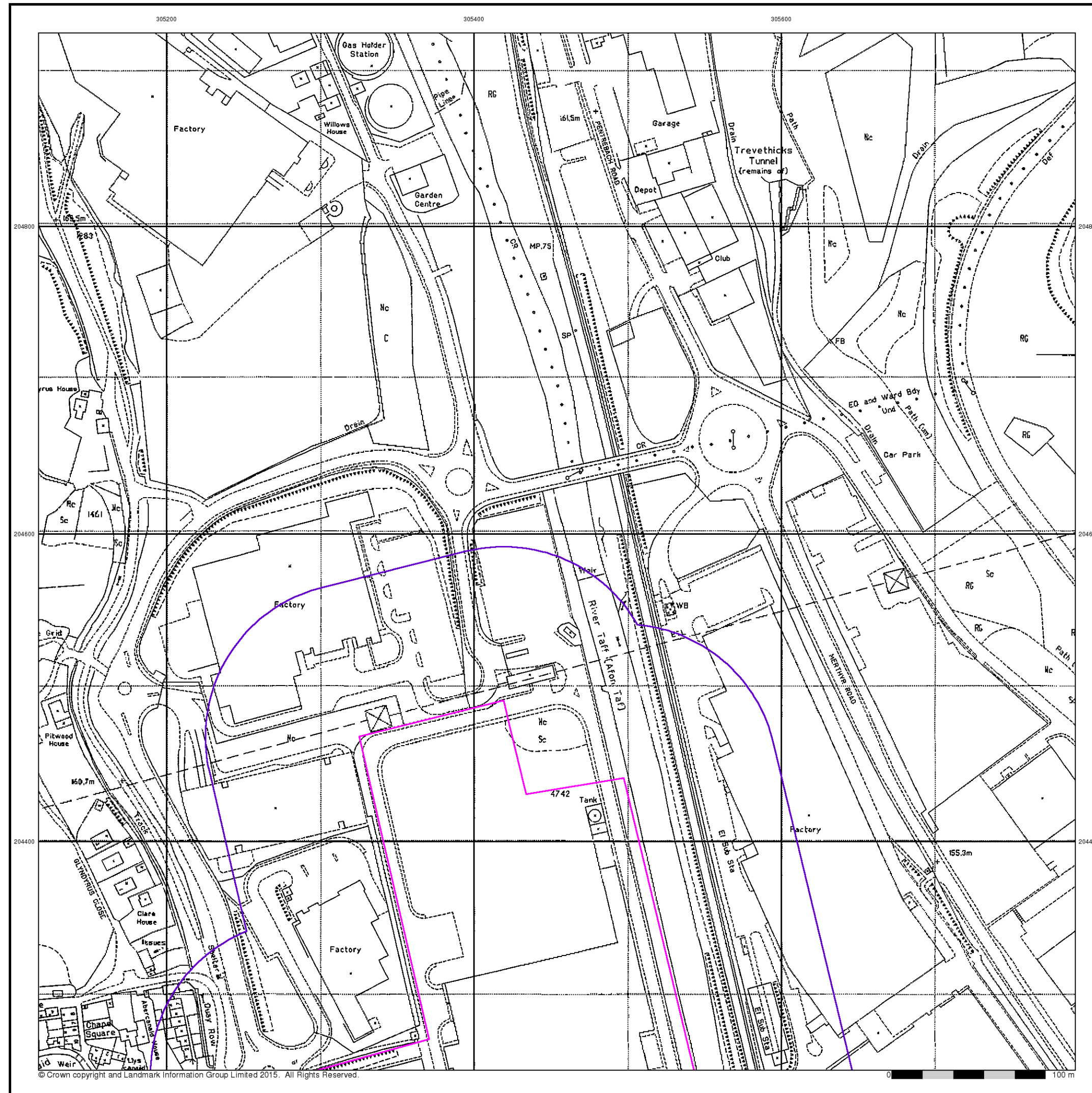
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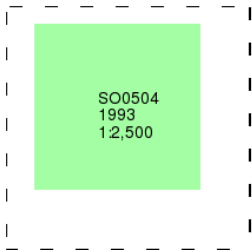
Large-Scale National Grid Data

Published 1993

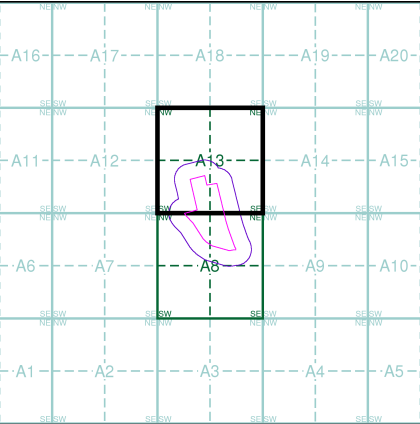
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 100

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

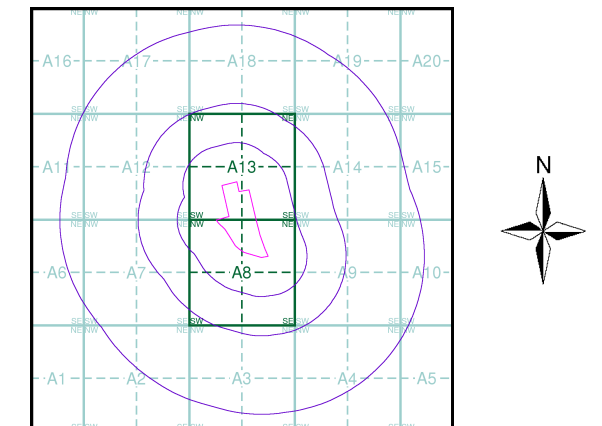
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

Intégral Géotechnique

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Brecknockshire	1:10,560	1884	2
Glamorganshire	1:10,560	1885	3
Glamorganshire	1:10,560	1901	4
Brecknockshire	1:10,560	1905	5
Glamorganshire	1:10,560	1922	6
Brecknockshire	1:10,560	1922	7
Brecknockshire	1:10,560	1938	8
Historical Aerial Photography	1:10,560	1945	9
Glamorganshire	1:10,560	1951	10
Brecknockshire	1:10,560	1951	11
Ordnance Survey Plan	1:10,000	1964 - 1965	12
Ordnance Survey Plan	1:10,000	1969	13
Ordnance Survey Plan	1:10,000	1970 - 1979	14
Ordnance Survey Plan	1:10,000	1982 - 1989	15
Ordnance Survey Plan	1:10,000	1990 - 1992	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2015	18

Historical Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

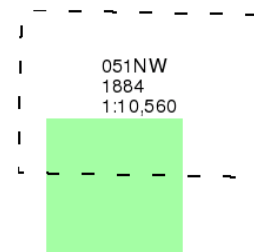
Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



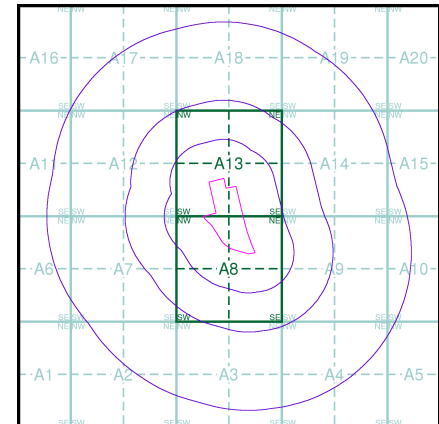
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Web: www.envirocheck.co.uk

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

Map Name(s) and Date(s)



Historical Map - Slice A

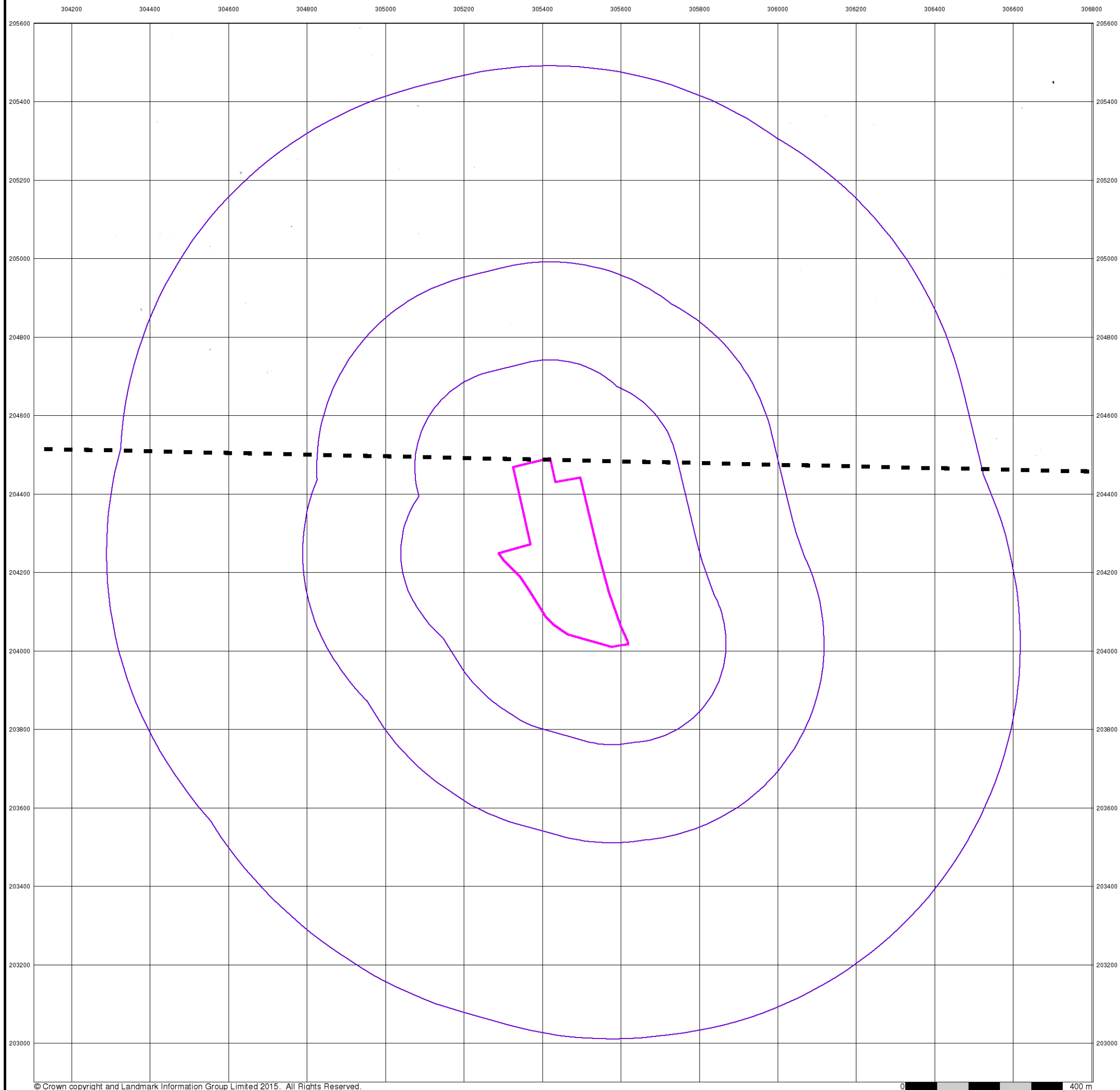


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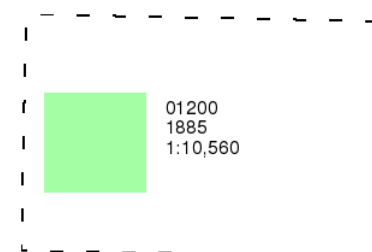
Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

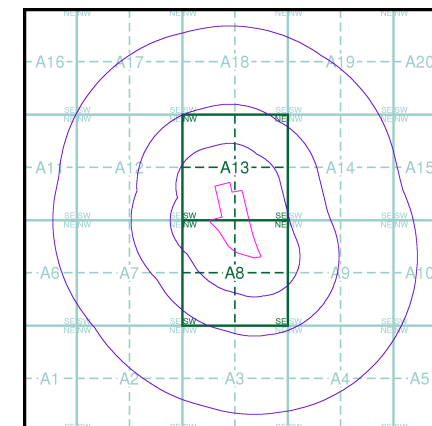


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Historical Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

Intégral Géotechnique

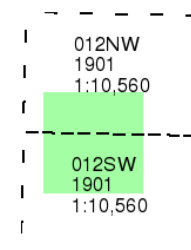
Glamorganshire

Published 1901

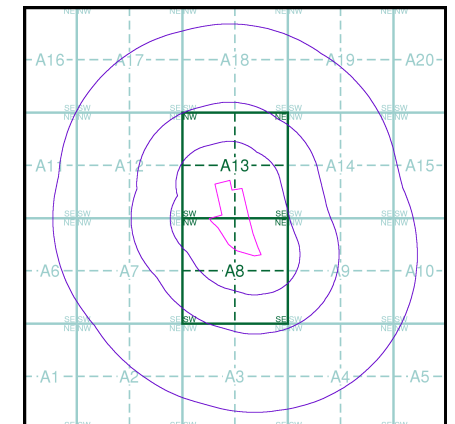
Source map scale - 1:10,560

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Historical Map - Slice A



Order Details

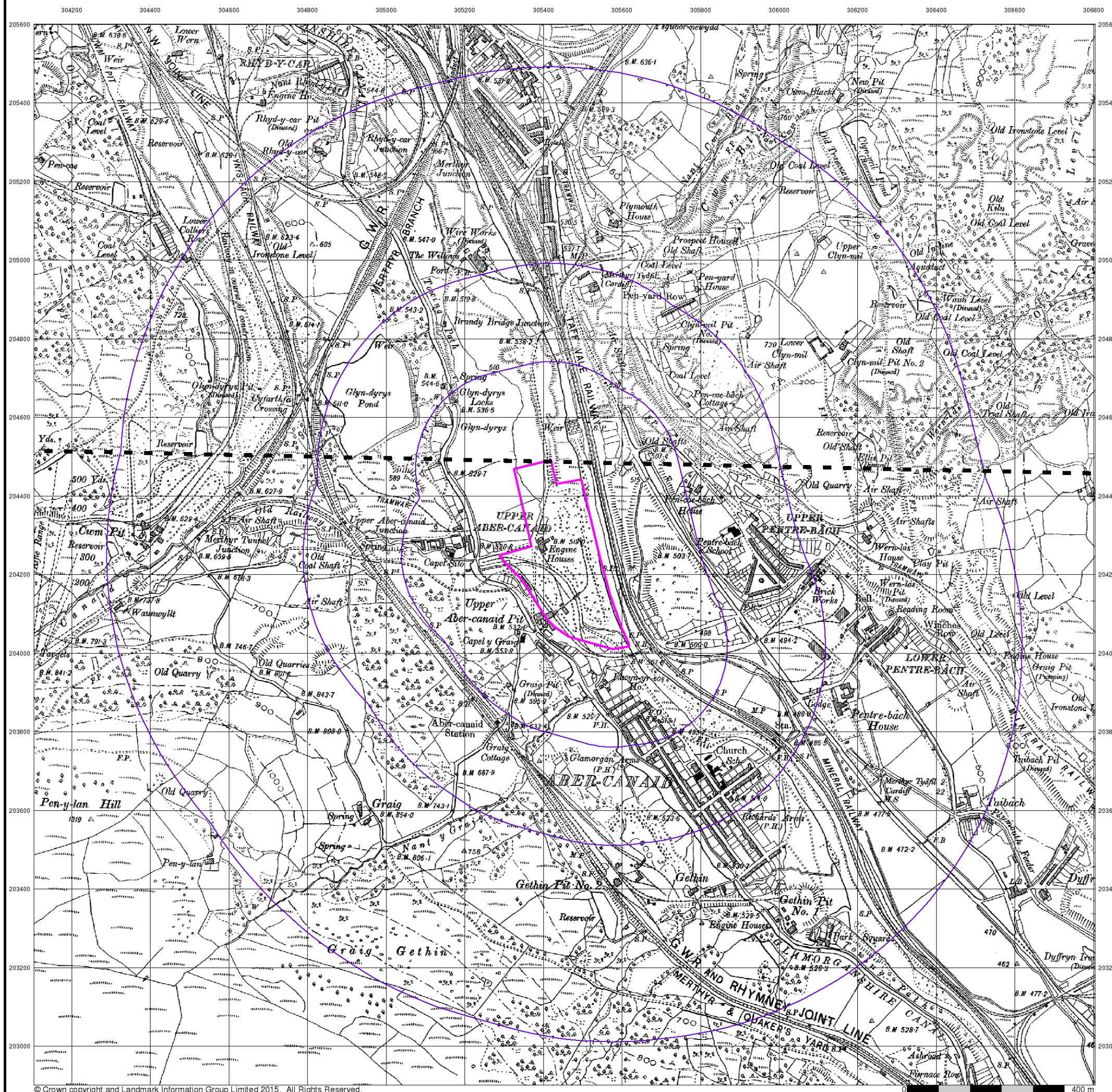
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Site Details

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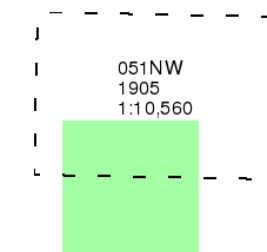


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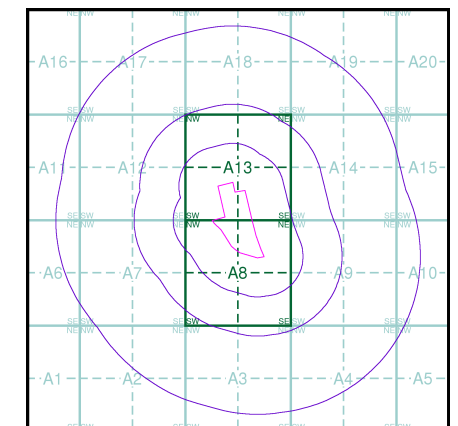


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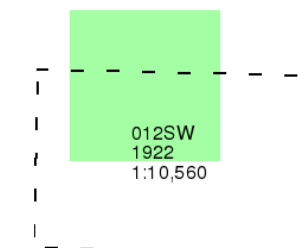
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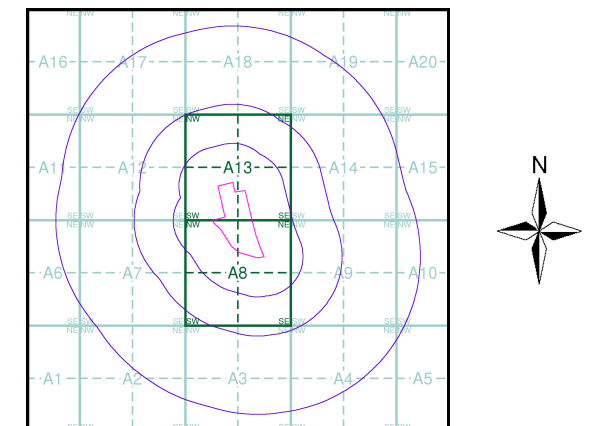
Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

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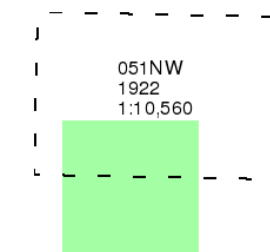
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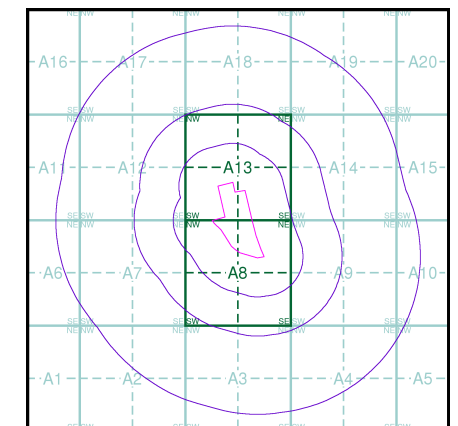
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Historical Map - Slice A



Order Details

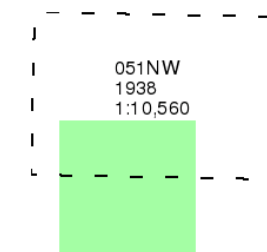
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

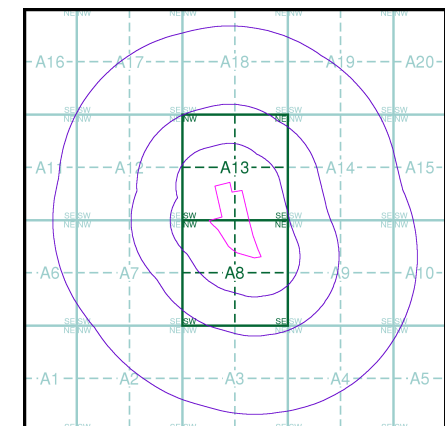
Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

Historical Aerial Photography

Published 1945

Source map scale - 1:10,560

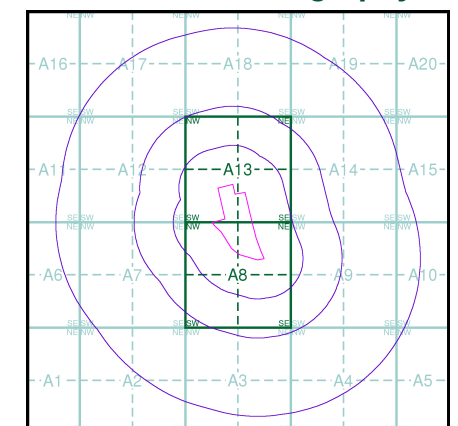
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)

SO00NW 1945 1:10,560	SO00NE 1945 1:10,560
SO00SW 1945 1:10,560	SO00SE 1945 1:10,560

Historical Aerial Photography - Slice A



LIBRARY
HSILIRB

Order Details

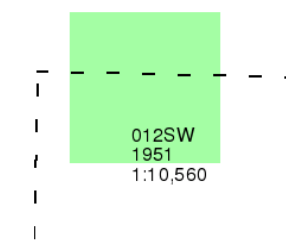
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Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

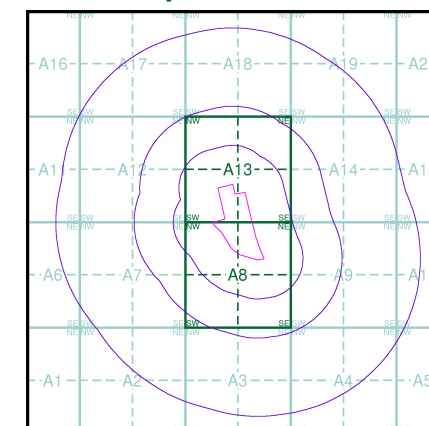
Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



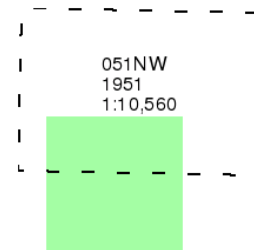
Brecknockshire

Published 1951

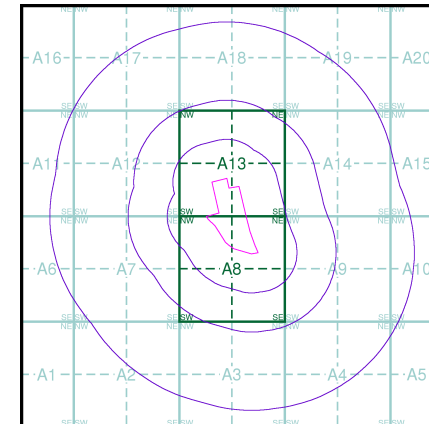
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1964 - 1965

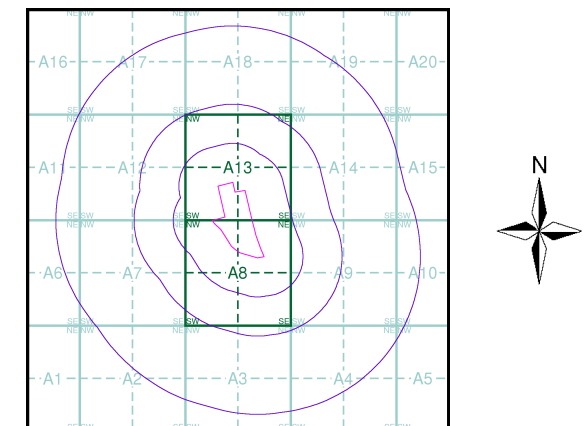
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)

SO00NW	SO00NE
1965	1965
1:10,560	1:10,560
SO00SW	SO00SE
1964	1964
1:10,560	1:10,560

Historical Map - Slice A

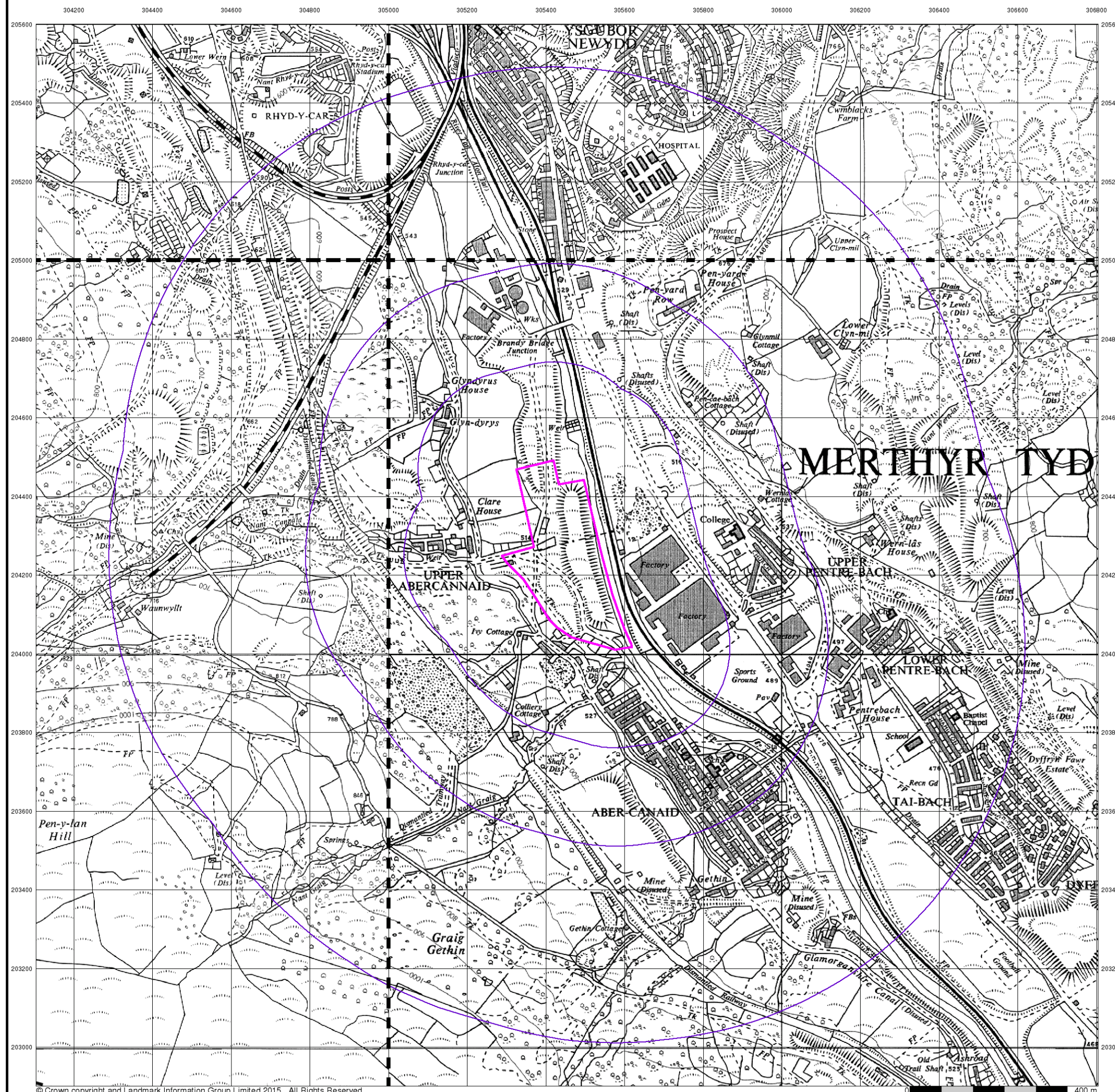


Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



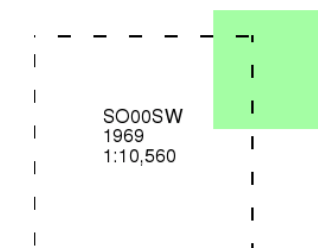
Ordnance Survey Plan

Published 1969

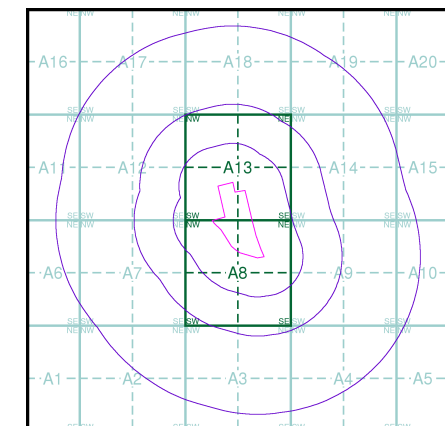
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

Ordnance Survey Plan

Published 1970 - 1979

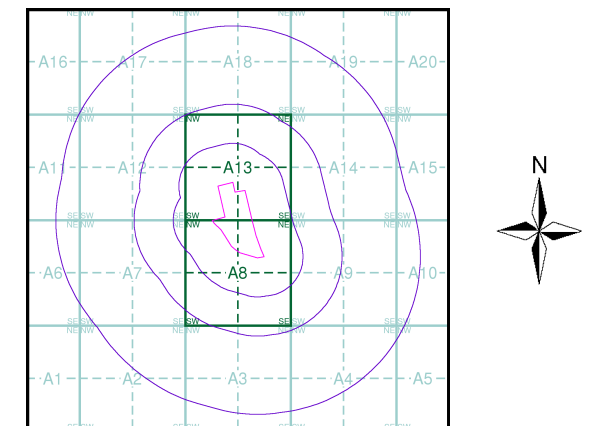
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SO00NW	SO00NE
1979	1977
1:10,000	1:10,000
	SO00SE
	1970
	1:10,560

Historical Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

Ordnance Survey Plan

Published 1982 - 1989

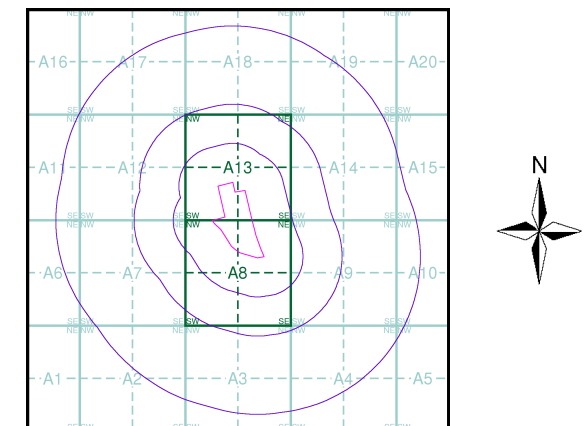
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SO00NE	1983	1:10,000
SO00SW	1982	1:10,000
SO00SE	1989	1:10,000

Historical Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

Ordnance Survey Plan

Published 1990 - 1992

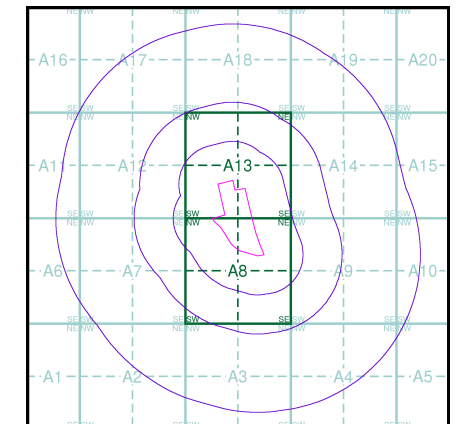
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SO00NW	SO00NE
1992	1992
1:10,000	1:10,000
SO00SW	
1990	
1:10,000	

Historical Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

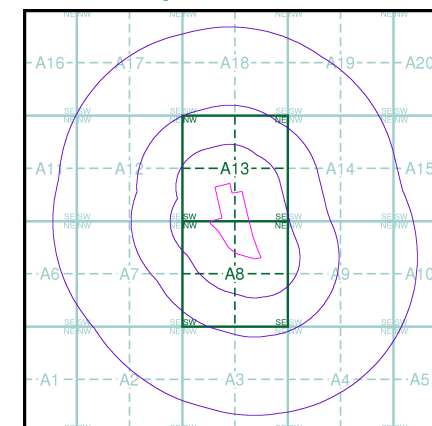
Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ

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

Map Name(s) and Date(s)

SO00NW	SO00NE
2006	2006
1:10,000	1:10,000
SO00SW	SO00SE
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



VectorMap Local

Published 2015

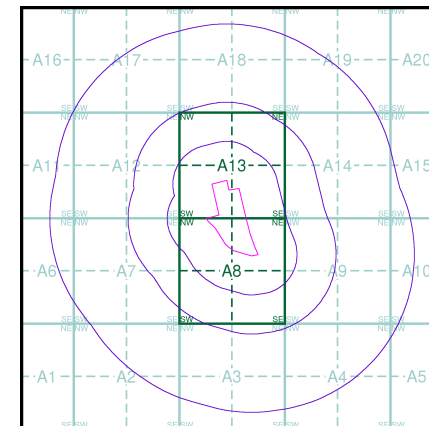
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SO00NW	SO00NE
2015	2015
Variable	Variable
SO00SW	SO00SE
2015	2015
Variable	Variable

Historical Map - Slice A



Order Details

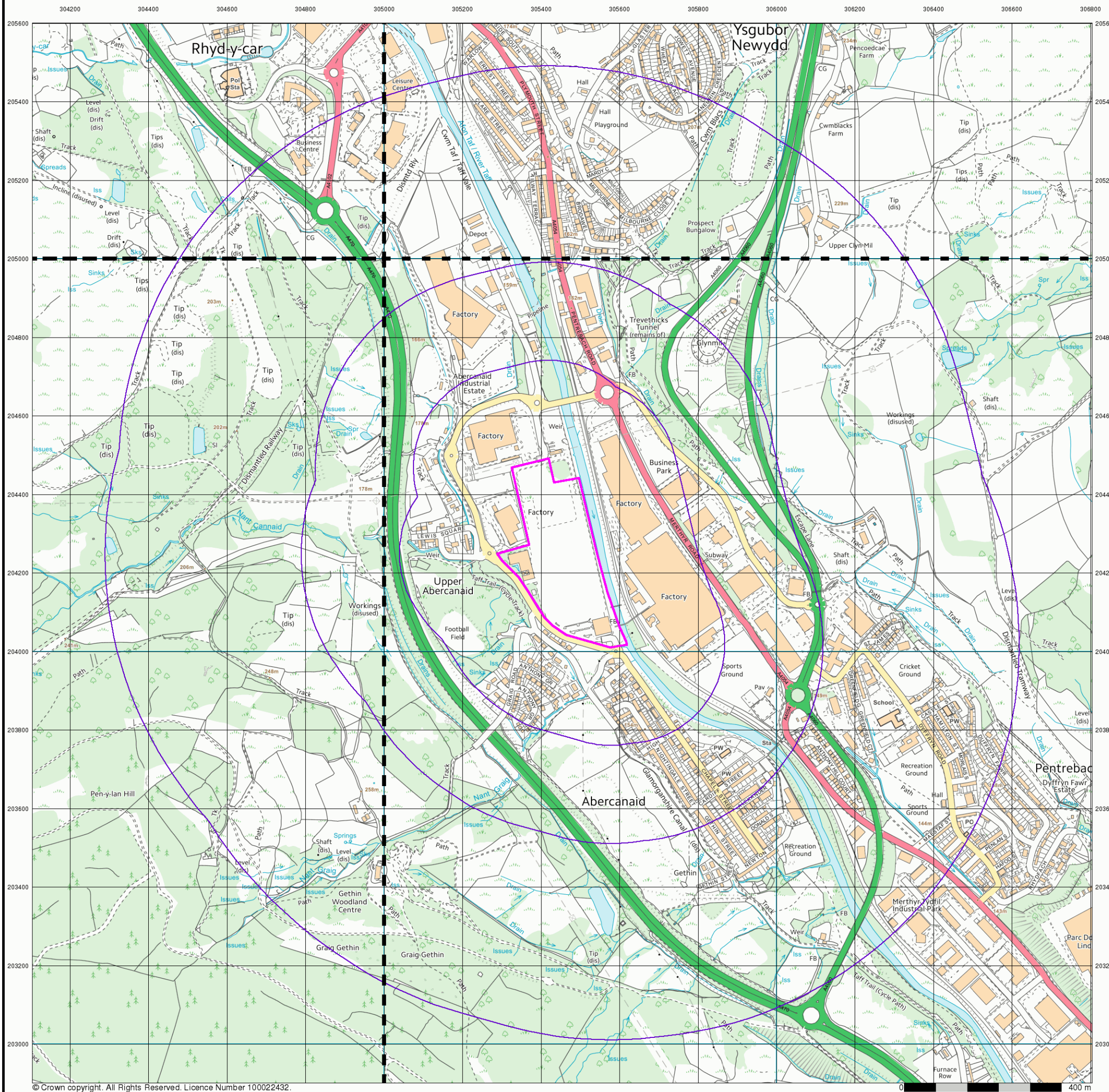
Order Number: 78000054_1_1
Customer Ref: 11722
National Grid Reference: 305460, 204240
Slice: A
Site Area (Ha): 8.13
Search Buffer (m): 1000

Site Details

Unit A, Dragon Parc, Abercanaid, MERTHYR TYDFIL, Mid Glamorgan, CF48 1PQ



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APPENDIX B

BGS BOREHOLE RECORDS

Drop tool boring to 1.50 m
then Diamond core drilling (water
flush) to 30.0 m using 101 mm bit.

TAFF VALE TRUNK ROAD. SECTION 5

Sheet 1 of 3

Scale 1 to 10

GROUND LEVEL: = 77 m.A.O.D.

1"; 231

N.C.R. 0535.0415

Progress	Date given above line, casing diameter below.	SAMPLE KEY D. Disturbed Sample □ Bulk Sample W Water Sample Piston (p) Tube (u) or core sample	REMARKS
Water.	Start of day water levels given.		
	Date above line.		
	-0 = first observations		
S.P.T.	Where full 0.3, penetration has not been achieved, the number of blows for the quoted penetration is given (not the N value)		
Depths	All depths in metres.		
	Strata thicknesses shown in brackets		

TAFF VALE TRUNK ROAD. SECTION 5

SO 00 SE 1147

Sheet 2 of 3

1"=231

NGR 0535.0415

Scale 1 to 20

Progress		Water Levels	Field Tests, records & Instrumentation Details	Sample Recovery	Depth & thickness m	Reduced Level	Legend	Description from Cores	
Hole	Casing							Details & Variations	Main Description
				c=80					Generally angular SAND, GRAVEL and occasional cobble sized disorientated fragments of siltstone in a matrix of stiff grey silty CLAY (Local till)
				c=60	(3.20)			Size of fragments generally increasing with depth	
1/5	1/5	5.7	Top seal: pumped Bentonite 4.7 to 5.7m and grout to 0.5m	c=80					
	113		Sand filter	c=80					
		6.3	tip	c=85					
		6.5	Base seal: bagged Bentonite 6.5 to 7.3m and grout to 30.0m	c=90				Siltstone boulder	
				c=100 r=50	7.10	148.57			SILTSTONE (See sheet 3)
								Precolated mineralised zone with vugh lined with small dolomite crystals	

Progress Date given above line, casing diameter below.

Water Start of day water levels given.

Date above line.

-0 = first observations.

S.P.T. Where full 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given (not the N value)

Depths All depths in metres.

Strata thicknesses shown in brackets.

SAMPLE KEY

D. Disturbed Sample

□ Bulk Sample

W Water Sample

Piston (p) Tube (t) or core sample

REMARKS



British Geological Survey

British Geological Survey

British Geological Survey

TAFF VALE TRUNK ROAD. SECTION 5

So 00 SE / 147

Sheet 3 of 8

1":231

Numb 0535.0415

Scale 1 to 20

Progress		Water Levels	Field Tests, records & Instrumentation Details	Sample Recovery	Depth & thickness m	Reduced Level	Legend	Description from Cores	
Core	Casing							Details & Variations	Main Description
	4/5 3/5 2/5 113			c=100 r=50				Inclined rough fissures	
				c=0	(3.65)			No recovery but full water return, washings indicate siltstone	Faintly weathered, thinly bedded, grey, moderately weak becoming moderately strong with depth, SILTSTONE with thin arenaceous laminations and occasional weak shaley bands (Dip approx. 5°)
	4/5							Vertical ironstained joint with slight coating of clay	
2/5				c=100 r=60				Siltstone becoming arenaceous in places	
	5/5			c=100	11.05	11.47		2 Joint sets 65° and 130° Average spacing - 100mm Steep angle fissuring at 1-4mm spacing	Fresh, thinly bedded jointed, highly fissured black, weak, generally bright COAL with thin black argillaceous bands, slickensides and listric surfaces (Four Feet Seam)

Progress Date given above line, casing diameter below.

Water Start of day water levels given.

Date above line.

-0 = first observations.

S.P.T. Where full 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given (not the N value)

Depths All depths in metres.
Strata thicknesses shown in brackets.

SAMPLE KEY

D. Disturbed Sample

B Bulk Sample

W Water Sample

P Piston (p) Tube (u)

or core sample

REMARKS



Soil Mechanics Ltd

CONTINUATION LOG FOR BOREHOLE No. 170

TAFF VALE TRUNK ROAD. SECTION 5

SO 00 SE | 147

1" : 231

NUR 0535, 0415

Sheet 4 of 2

Scale 1 to 20

Progress		Water Levels	Field Tests, records & Instrumentation Details	Sample Recovery	Depth & thickness	Reduced Level	Legend	Description from Core	
Hole	Casing							Details & Variations	Main Description
				c=90	(1.95)			Band of moderately strong grey argillaceous siltstone becoming weak and shaley with depth	COAL (See sheet 3)
					13.0	12.77		25mm Soft grey clay with coarse sand size fragments of siltstone. Few black carbonaceous fossils. (Seat earth)	
				c=90 r=30					Faintly weathered thinly bedded, dark grey, moderately weak to moderately strong, argillaceous SILTSTONE (Dip approximately 5°)
					(3.75)				
				c=100 r=55				15mm Soft black carbonaceous bands	
								Fractured zone	

Progress Date given above line, casing diameter below.

Water Start of day water levels given.

Date above line,
-0 = first observations.

S.P.T. Where full 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given (not the N value)

Depths All depths in metres.

Strata thicknesses shown in brackets.

SAMPLE KEY

D. Disturbed Sample

Q Bulk Sample

W Water Sample

Piston (pl) Tube (u) Sample

or core sample

Length to S.P.T.

REMARKS

TAFF VALE TRUNK ROAD. SECTION 5

So oo SE / 147

1": 231

NGR 0535.0415

Sheet 5 of 3

Scale 1 to 20

Progress		Water Levels	Field Tests, records & Instrumentation Details	Sample Recovery	Depth & thickness m	Reduced Level	Legend	Description from Cores	
Hole	Casing							Details & Variations	Main Description
					(3.75)				SILTSTONE (See sheet 4)
					16.75	139.02			
				c=100 r=85			X		
							X	X	
							X	X	
							X	X	Occasional traces of plant remains
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
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							X	X	
							X	X	

Progress	Date given above line, casing diameter below.
Water	Start of day water levels given. Date above line. - 0 = first observations.
S.P.T.	Where full 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given (not the N value)
Depths	All depths in metres. Strata thick across the

SAMPLE KEY

- D. Disturbed Sample
- D. Bulk Sample
- W. Water Sample
- Piston (p) Tube (u) or core sample

REMARKS

TAFF VALE TRUNK ROAD. SECTION 5

Sheet 6 of 9

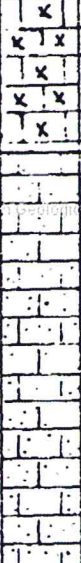
1":231

N 40° E

S 000 SE 1/47

0535.0415

Scale 1 to 20

Progress		Water Levels	Field Tests, records & Instrumentation Details	Sample Recovery	Depth & thickness m	Reduced Level	Legend	Description from Cores	
Hole	Casing							Details & Variations	Main Description
				c=100 r=85				Becoming arenaceous with depth	SILTSTONE (See sheet 5)
				c=100 r=80	(6.1)				
				c=100 r=90	22.35	132.97		Trace of fossil plant material	Fresh or faintly weathered, thinly and medium bedded grey, fine grained strom. SANDSTONE with some thin (2-5mm) bands of moderately weak siltstone and silty laminations (Average dip approximately 5°)
					(1.85)			Thin (<1cm) near vertical quartz veining	

Progress Date given above line, casing diameter below.

Water Start of day water levels given.

Date above line.

-0 = first observations.

S.P.T. Where full 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given (not the N value)

Depths All depths in metres.

Strata thicknesses shown in brackets.

SAMPLE KEY

D. Disturbed Sample

Q Bulk Sample

W Water Sample

Piston (p) Tube (u)

or core sample

REMARKS

REMARKS

TAFF VALE TRUNK ROAD. SECTION 5

SO 00 SE 1149

Sheet 2 of 5

1:231

N-12 OS32. 0422

Scale 1 to 20

Progress		Water Levels	Field Tests, records & Instrumentation Details	Sample Recovery	Depth & thickness (m)	Reduced Level	Legend	Description of Strata
Hole	Casing							
			Piezometer for details see sheet 5)	D • 10				
				D9				
			SPT 4.55 0.30 N = 19	D • 11	(5.30)			FILL (See sheet 1)
				D • 12				
				D13	5.30	154.15		
				D • 14	(0.60)			Gray-brown mottled orange-brown fine sandy SILT with a trace of sandstone gravel and traces of ash and coal fragments (Possibly colluvium)
			SPT 5.70 0.30 N = 36	D • 15				
				D • 16	5.90	153.55		Black/brown becoming grey or orange-brown with depth mottled usually sandy very silty CLAY with some subrounded gravel and small cobbles and traces of ashy fragments and carbonaceous matter (Possibly kame terrace)
				D17				
			SPT 6.65 0.30 N = 37	D • 18				clayey sand
				D • 19	(2.20)			
				D • 20				
			SPT 7.55 0.30 N = 23	D • 20				
				D23				

Progress Date given above line, casing diameter below.
 Water Start of day water levels given.
 Date above line.
 -0 = first observations.
 S.P.T. Where full 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given (not the N value)
 Depths All depths in metres.

SAMPLE KEY

D. Disturbed Sample
 Bulk Sample
 W Water Sample
 Piston (p) Tube (u)
 or core sample

REMARKS

TAFF VALE TRUNK ROAD, SECTION 5

So 00 SE / 149

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16 cor 0532. 0422

Sheet 3 of 5

Scale 1 to 30

Progress		Water Levels	Field Tests, records & Instrumentation Details	Sample Recovery	Depth & thickness m	Reduced Level	Legend	Description of Strata
Hole	Casing							
			Piezometer: (for details see sheet 5)	D • 22	8.10	151.35		CLAY (See sheet 2)
			SPT 8.75 0.30 N = 12 (No recovery)	D23	(1.10)			Pinkish brown (becoming brown with depth) fine sandy clayey SILT with some subrounded gravel and cobbles towards base (Possibly kame terrace)
		2/5		D • 24	9.20	150.25		
				D25				Clayey sand
		1/5		D • 26				
		200	SPT 9.95 0.30 N = 17	D • 27				Grey/brown very sandy silty CLAY with a little subrounded fine gravel and traces of carbonaceous matter (Possibly kame terrace)
1/5					(2.50)			
		9/5		D • 28				
		10/5	SPT 11.15 0.30 N = 43	D • 29				
		DRY 8/5						
2/5	2/5			e=85	11.7	147.75		Coarse gravel, cobbles and boulders of siltstone and sandstone
	200							
								Description from Cores
								Details of Problems
								Description
								Gravel in a soft light grey clay matrix
								GRAVEL, COBBLES and BOLDERS

Progress	Date given above line, casing diameter below.
Water	Start of day water levels given. Date above line. -0 = first observations.
S.P.T.	Where full 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given (not the N value)
Depths	All depths in metres. Strata thicknesses shown in brackets.

SAMPLE KEY

D. Disturbed Sample
D Bulk Sample
W Water Sample
Piston (p) Tube (u)
or core sample
Length-to-Scale

REMARKS



TAFF VALE TRUNK ROAD. SECTION 5

So 00 SE / 149

1":231

NGR OS32. 0422

Sheet 4 of 5

Scale 1 to 20

Progress		Water Levels	Field Tests, records & Instrumentation Details	Sample Recovery	Depth & thickness m	Reduced Level	Legend	Description from Cores	
Hole	Casing							Details & Variations	Main Description
8/5	8/5	113	Piezometer (for details see sheet 5)						
				c=25					
				c=25				Trace of sand and clay	Assorted angular and subangular coarse GRAVEL COBBLES and BOULDERS, comprising mainly siltstone and sandstone fragments (Probably Kame terrace)
				c=30					
				c=15	(3.25)				
				c=0					
				c=25					
				c=30					
				c=95 r=55	14.95	14.50		Core broken at intersection of inclined and vertical joints	Faintly weathered, thinly bedded, grey, fine grained moderately strong to strong, SANDSTONE with some silty laminae
				c=100 r=80	(3.15)			See sheet 5	

Progress Date given above line, casing diameter below.

Water Start of day water levels given.

Date above line.

-0 = first observations.

S.P.T. Where full 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given (not the N value)

Depths All depths in metres.

Strata thicknesses shown in brackets.

SAMPLE KEY

D. Disturbed Sample

B Bulk Sample

W Water Sample

P Piston (p) Tube (u)

or core sample

REMARKS

British Geological Survey

British Geological Survey

British Geological Survey

TAFF VALE TRUNK ROAD. SECTION 5

SO 00 SE / 149

Sheet 5 of 5

1": 231

Non 0532. 0422

Scale 1 to 20

Progress		Water Levels	Field Tests, records & Instrumentation Details	Sample Recovery	Depth & thickness m	Reduced Level	Legend	Description from Cores	
Hole	Casing							Details & Variations	Main Description
			Piezometer	c=65 r=0					
	10/5 113			c=100 r=0					
			Top seal: pumped Bentonite 17.1 to 16.1m and grout to 1.0m	c=95 r=50	(3.15)			Light grey sandstone with dark grey silty laminæ	SANDSTONE (See sheet 4)
			sand filter tip	c=100 r=95				Short vertical joints sparsely spaced (average spacing 900mm) sometimes thinly coated with a white mineral (possibly gypsum)	
10/5					18.1	146.35			
								END OF BOREHOLE	

Progress Date given above line, casing diameter below.

Water Start of day water levels given.

Date above line:

-0 = first observations.

S.P.T. Where full 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given (not the N value)

Depths All depths in metres.

(See sheet 4 for details of test methods)

SAMPLE KEY

D. Disturbed Sample

B. Bulk Sample

W. Water Sample

P. Piston (p) Tube (t)

or core sample

REMARKS

APPENDIX C

COAL AUTHORITY REPORT



Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0345 762 6848 DX 716176 MANSFIELD 5

**LANDMARK INFORMATION GROUP
LIMITED
SOWTON INDUSTRIAL ESTATE
ABBAY COURT
UNIT 5/7 EAGLE WAY
EXETER
DEVON
EX2 7HY**

Our reference: **51001062015001**
Your reference: **78000054_2|**
Date of your enquiry: **12 January 2016**
Date we received your enquiry: **12 January 2016**
Date of issue: **12 January 2016**

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

Non-Residential Coal Authority Mining Report

UNIT A, ABERCANAID, DRAGON PARC MERTHYR TYDFIL,

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

Coal mining	See comments below
Brine Compensation District	No

Information from the Coal Authority

Underground coal mining

Past

The property is in the likely zone of influence from workings in 3 seams of coal at shallow to 140m depth, and last worked in 1950.

Present

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

Future

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

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

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

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

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

Mine entries

Within, or within 20 metres of, the boundary of the property there are 7 mine entries, the approximate positions of which are shown on the attached plan.

Our records disclose the following information:

305204-038. This shaft was filled grouted and capped in 1975..

305204-030. Information provided to the Coal Authority by British Coal indicates th is shaft is filled.

305204-069. No treatment details.

305204-036. This shaft was filled grouted and capped in 1975..

305204-031. This shaft was grouted and capped in 1977..

305204-060. Uncovered during road improvements we understand this adit was treated by K Wardell and Partners Consultant Mining Engineers..

305204-037. This shaft was filled grouted and capped in 1975..

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

For an additional fee, the Coal Authority will provide a supplementary Mine Entry Interpretive Report. The report will provide a separate assessment for the mine entry (entries) referred to in this report. It will give details based on information in the Coal Authority's possession, together with an opinion on the likelihood of mining subsidence damage arising from ground movement as a consequence of the existence of the mine entry/entries. It will also give details of the remedies available for subsidence damage where the mine entry was sunk in connection with coal mining. Please note that it may not be possible to produce a report if the main building to the property cannot be identified from Coal Authority plans (ie. for development sites and new build).

For further advice on how to order this additional information visit www.groundstability.com or telephone 0345 7626 848.

Coal mining geology

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

Opencast coal mining

Past

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

Present

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

Future

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

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

Coal mining subsidence

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

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

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

Mine gas

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

Hazards related to coal mining

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

Withdrawal of support

The property is not in an area for which a notice of entitlement to withdraw support has been published.

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

Working facilities orders

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

Payments to owners of former copyhold land

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

Comments on Coal Authority information

The attached plan shows the approximate location of the disused mine entry/entries referred to in this report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

Property owners have the benefit of statutory protection (under the Coal Mining Subsidence act 1991*). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and the obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by telephoning 0345 762 6848.

If you wish to discuss the relevance of any of the information contained in this report you should seek the advice of a qualified mining engineer or surveyor. If you or your adviser wish to examine the source plans from which the information has been taken these are normally available at our Mansfield office, free of charge, by prior appointment, telephone 01623 637225. Should you or your adviser wish to carry out any physical investigations that may enter, disturb or interfere with any disused mine entry the prior permission of the owner must be sought. For coal mine entries the owner will normally be the Coal Authority.

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

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

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

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to

generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional Remarks

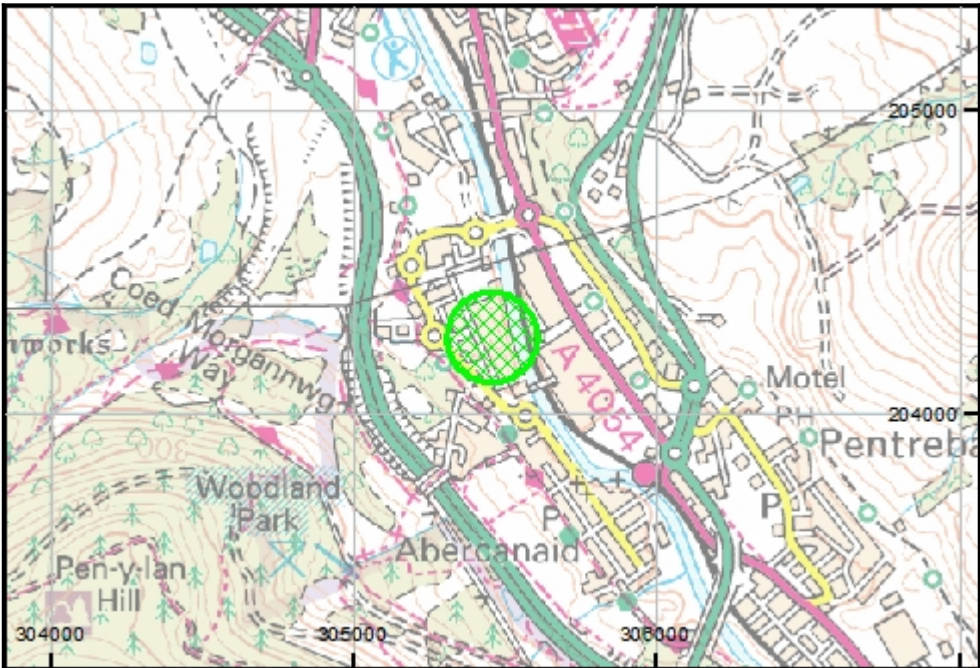
Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions applicable at the time the report was produced.

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Location map



Approximate position of property



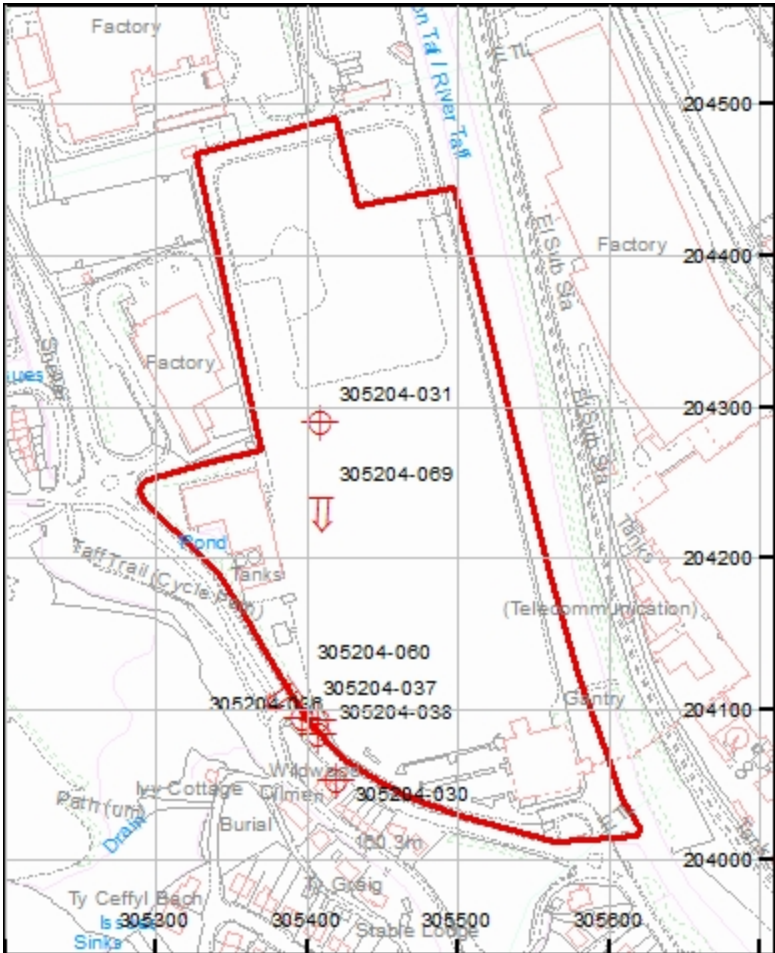
Enquiry boundary

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Key

Approximate position of enquiry boundary shown

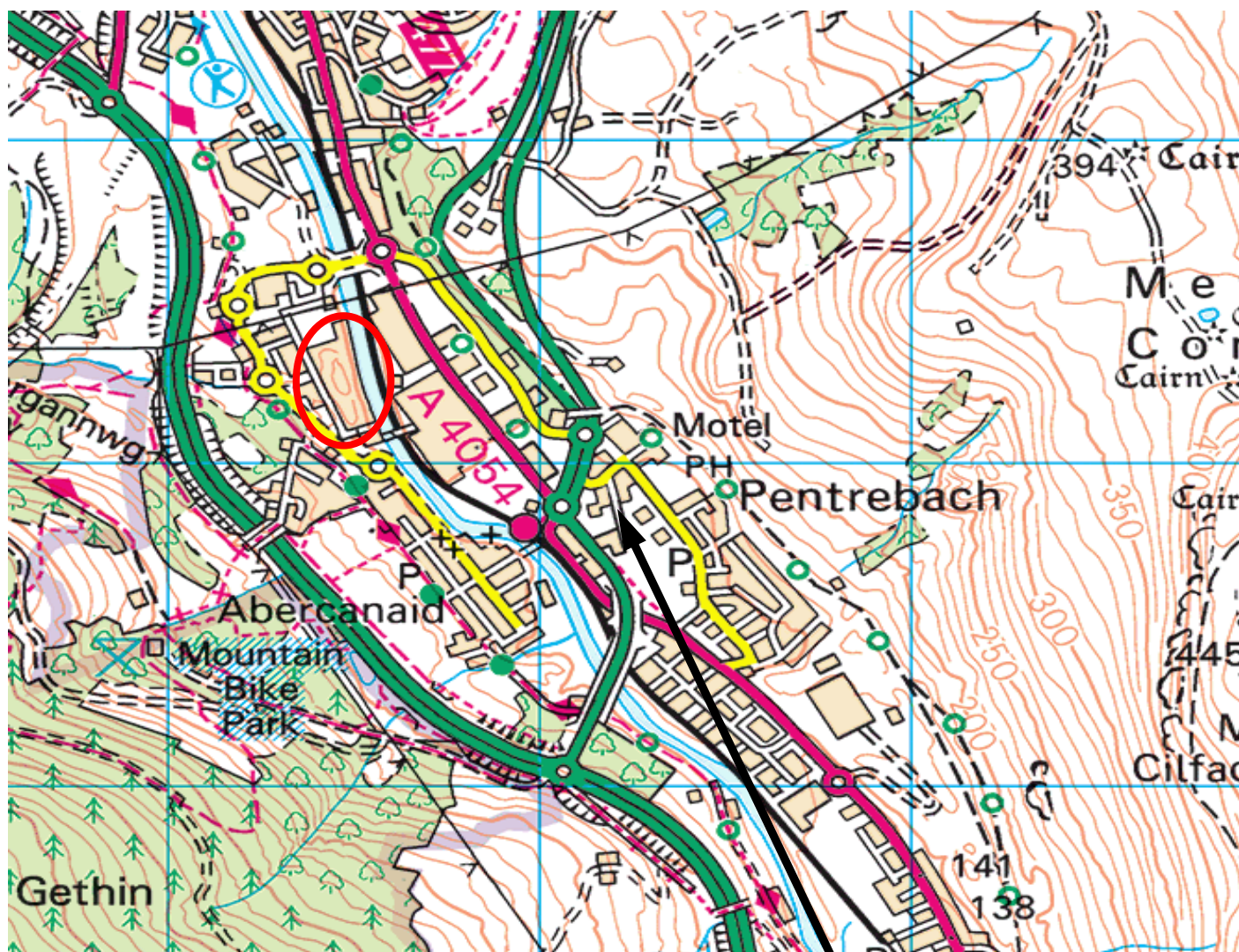
Disused Adit or Mineshaft



FIGURES



NORTH



1000m

**SITE
LOCATION**

FIGURE 1 - SITE LOCATION

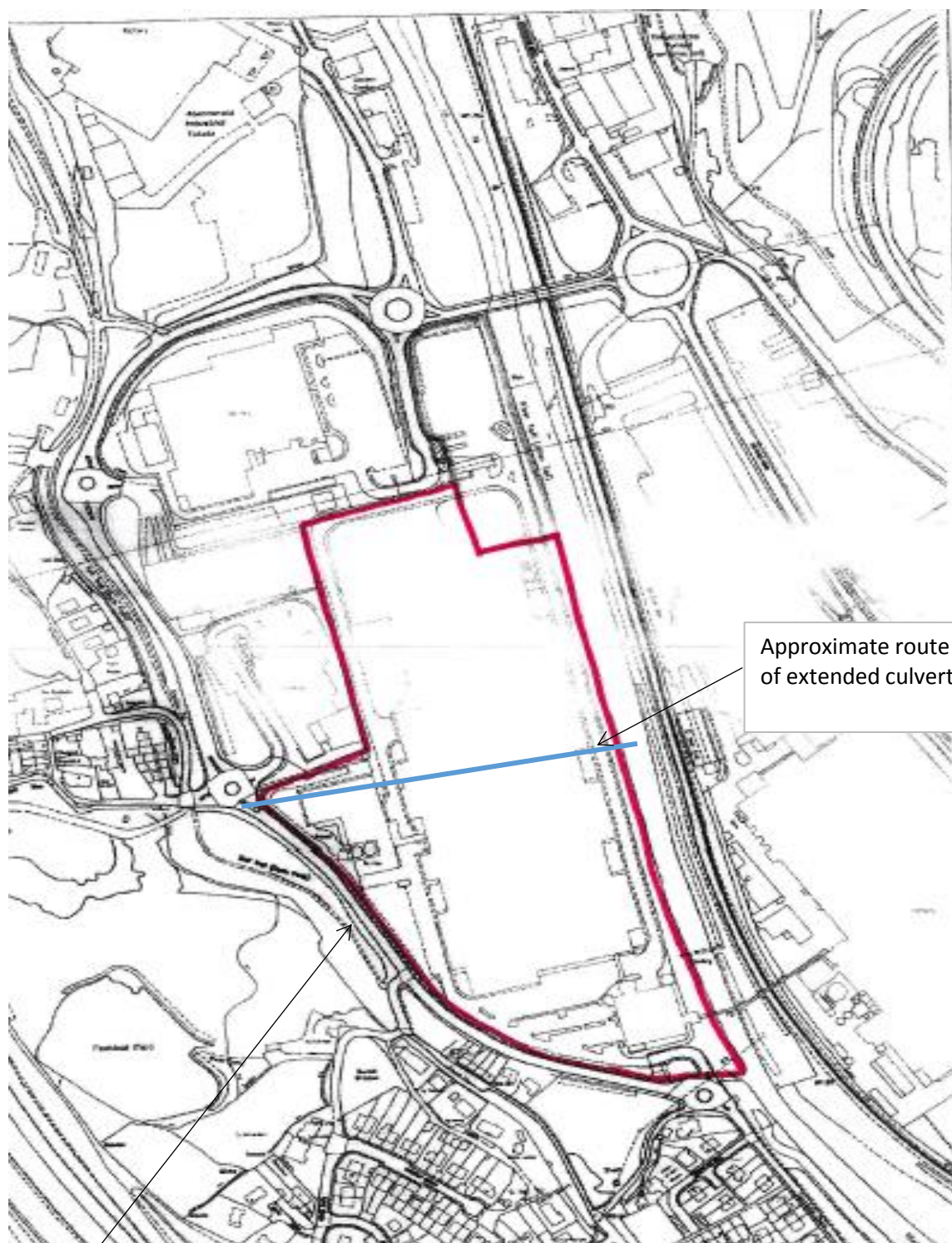
Ardagh Metal Packaging, Abercnaid, Methyr

Intégral
Géotechnique

Intégral House
7 Beddau Way
Castlegate Business Park
Caerphilly
CF83 2AX
Tel: 029 2080 7991
Fax: 029 2086 2176



NORTH



Site Boundary

Approximate route
of extended culvert

NOT TO SCALE

FIGURE 2 - SITE PLAN

Ardagh Metal Packaging, Abercnaid, Methyr

Intégral
Géotechnique

Intégral House
7 Beddau Way
Castlegate Business Park
Caerphilly
CF83 2AX
Tel: 029 2080 7991
Fax: 029 2086 2176



Figure 3: SITE PHOTOGRAPHS

Ardagh Metal Packaging, Abercanaid, Merthyr Tydfil



Intégral House
7 Beddau Way
Castlegate Business Park
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Tel: 029 2080 7991
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