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**PHASE 1: DESK TOP STUDY REPORT**  
**PROPOSED COMMERCIAL DEVELOPMENT**  
**CARDIFF EDGE LIFE SCIENCES PARK**  
**LONGWOOD DRIVE**  
**CARDIFF**  
**CF14 7YT**

**Project No: 21-712**

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The information and / or advice contained in this Phase 1: Desk Top Study Report is based solely on, and is limited to, the boundaries of the site, the immediate area around the site, and the historical use(s) unless otherwise stated. This 'Report' has been prepared to collate information relating to the physical, environmental and industrial setting of the site, and to highlight, where possible, the likely problems that might be encountered when considering the future development of this site for the proposed end use. All comments, opinions, diagrams, cross sections and / or sketches contained within the report, and / or any configuration of the findings is conjectural and given for guidance only and confirmation of the anticipated ground conditions should be considered before development proceeds. Agreement for the use or copying of this report by any Third Party must be obtained in writing from Arc Environmental Limited (ARC). If a change in the proposed land use is envisaged, then a reassessment of the site should be carried out.

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## 1.0 Introduction

June 2021

Arc Environmental Limited has been instructed by BJB Consulting Limited on behalf of HSRE-Trinity Cardiff Edge Limited to undertake a Phase 1: Desk Top Study (DTS) Report for a parcel of land at Cardiff Edge Life Sciences Park, within Forest Farm Industrial Estate, adjacent to Longwood Drive, Cardiff, CF14 7YU, where proposals have been made to expand the site as part of a first-phase development with five new self-contained laboratory and office buildings, warehouse space and a multi-storey car park. Several of the existing structures are intended to be demolished to accommodate the scheme.

The primary objectives of this report are to assess the geological, geotechnical and potential ground contamination conditions on and beneath the surface of this site. This Phase 1: DTS Report has been carried out generally in accordance with the EA (Environment Agency) guidance for Land Contamination Risk Management (LCRM: October 2020) which has replaced CLR11: Model Procedures for the Management of Land Contamination. Based on all the data reviewed, a preliminary Conceptual Site Model (CSM) has been developed to define the scope and extent of any further investigation works deemed necessary, prior to commencing with any future development works.

A site reconnaissance (walkover) survey was completed as part of this study with site photographs included within Appendix I, and all relevant observations noted in Section 2.1 below.

## 2.0 Physical Setting

### 2.1 Site Details: -

**Table 2.1**

<b>Site Name &amp; Address:</b>	Cardiff Life Sciences Park, Forest Farm Industrial Estate, Longwood Drive, Cardiff, CF14 7YU.
<b>National Grid Reference:</b>	313310, 181170 (Representative of the central part of the site).
<b>Description of Location:</b>	The site is located on the north-western fringe of Cardiff (8km from the city centre). It is currently accommodated by a series of buildings (including a powerhouse, plant rooms (inc. trade effluent), laboratories, offices and external waste shelter and compound, with associated car parking and soft landscaping.
<b>Site Boundaries:</b>	N = a minor carriageway (Longwoods Drive) / woodland, beyond which is the M4 Motorway, E = Long Wood Nature Reserve / Glamorganshire Canal, S = minor carriageway with commercial premises beyond & W = Longwood Drive with River Taff beyond.
<b>Site Shape:</b>	The site is irregular in layout, occupying a total area of c.12.33 Hectares (Ha).
<b>General Topography:</b>	The ground profile across the site is predominately flat lying in the central portion (with areas of kerbside) and forms a raised plateau within carparking in the northwest (up to c.31m AOD). An artificially constructed earth mound / bund (possible man-made flood defence barrier) resides at the southwest margin. A detailed topographical survey plan of the site has been undertaken by the Client.
<b>Site surfacing:</b>	Predominantly hardstanding (comprising concrete / asphalt / crushed aggregate / block paving within carparking and minor access infrastructure and footprint of existing buildings) and soft landscaping (grass cover and delineated borders of shrubbery / trees). Areas of dense overgrowth reside within redundant ground at the northeast / southeast site margins. Evidence of surface spoil comprising construction / demolition type debris within an area that formerly occupied several built features (in northeast).
<b>Above Ground Structures:</b>	Existing buildings and various process plant (inc. tanks / chimney). Raised manholes within brick enclosure (within the bund). Security & telecom masts and lighting columns. Fire hydrants. Storage containers and waste skips. Signage. Heras fencing bounds the portion of land in the southeast. The site is currently secured by mesh fencing.

## **2.0 Physical Setting (Cont'd)**

### **2.1 Site Details (Cont'd): -**

**Table 2.1 (Cont'd)**

<b>Sub-surface Structures &amp; Services:</b>	Evidence of inspection covers / surface grates for surface water drainage. Fire hydrants connecting to water supply. A spine service duct runs between buildings centrally on a northeast to southwest alignment. Several electrical storage cabinets. From the results of the utility survey provided by the Client other services (inc. sewer, BT, electric) are present associated with the onsite and adjacent developments. Possible relic foundations from demolished buildings. Pump room for wastewater.
<b>Summary of Site History:</b>	From the historical records reviewed since c.1875, the site and immediate adjoining area is predominately encompassed by undeveloped land (agricultural fields), which by c.1982 is formed by a factory complex with a raised earth mound / constructed bund along the southwest site margin. By c.1992 the site is labelled as laboratories. The site currently consists of various plant rooms, a powerhouse, waste compounds and shelters, in addition to offices and car parking. The recent walkover inferred several of the buildings in the northeast to be demolished. Adjacent salient historical features include various works inc. a gas valve compound / commercial premises to the south and the M4 carriageway beyond Longwoods Drive to the north.

## **3.0 Environmental Setting**

### **3.1 Site Geology: -**

The geological assessment for this site has been based on geological plans and digital online data published by the British Geological Survey (BGS). The following documents have been reviewed as part of this study: -

- Online BGS Geology of Britain Viewer.
- BGS Sheet 263, Cardiff, Solid Edition, 1:50,000 scale, 1986.
- Online CA Interactive Map Viewer.
- BGS Archive Borehole Records.
- Envirocheck Report Ref. 294881209\_1\_1.

#### **3.1.1 Made Ground: -**

In accordance with the published BGS maps, significant thicknesses of made ground are not shown to encroach the site and immediate adjacent area. The historical OS Maps (dated from c.1982), infer a factory / laboratory and office complex developed on portions of the site, which has been reconfigured in layout (with various buildings in the eastern portion of the site recently recorded as demolished). An earth mound / artificially constructed soil bund (possible flood defence barrier) resides at the southwest site margin of unknown composition. Based on the current previous developmental interactions recorded within the environ, made ground is therefore expected within the succession beneath the site. These deposits are anticipated to comprise a mixture of disturbed natural strata (clays, silts etc.) and anthropogenic debris (construction / demolition / process wastes). The archive boreholes advanced on site do not record made ground, however the investigation was prior to the development of the site.

#### **3.1.2 Superficial Deposits: -**

Published geological maps produced by the BGS indicate the natural superficial sequence is expected to comprise Glaciofluvial deposits (deposited during the Devensian (Quaternary Period). This succession is anticipated to compositionally relate to predominantly sand and gravel, locally with lenses of silt, clay or organic material (with cobbles and boulders).

### **3.0 Environmental Setting (Cont'd)**

#### **3.1 Site Geology (Cont'd): -**

##### **3.1.2 Superficial Deposits: -**

The archive BGS boreholes advanced on site, recorded topsoil above soft to firm sandy clay (to a maximum recorded depth of c.1.52m), above very dense, well graded slightly sandy gravel with interlayers of dense sand with cobbles and boulders, to at least c.9.00m bgl.

##### **3.1.3 Solid Geology: -**

Based on published BGS maps, the site is underlain by the Llanishen Conglomerate depicted to relate to the Milford Haven Sub-group (Emsian Age). This succession can be summarised as sandstones, siltstones and mudstones with beds of beds of pebbly sandstone.

This was proven by the BGS boreholes which infer the solid stratigraphy beneath the site to comprise weak weathered mudstone, siltstone and friable silty clay to the completion depth (i.e., of in excess of c.10.0m bgl).

The published geological information does not indicate significant faulting or other lines of weakness intersecting the development area or its immediate surroundings.

#### **3.2 Coal Mining Risk Assessment: -**

In accordance with the published information the site is underlain by the Llanishen Conglomerate which is absent of productive coal seams.

In addition, the Coal Authority Online Interactive Map Viewer confirms that this area does not lie within a 'Coal Mining Reporting Area, nor does it lie within a Development High Risk Area'.

When considering the nature of the bedrock deposits present below the site area, the site is not at risk from potential future surface instability issues arising from shallow coal mining activities and as a result, no further assessment or intrusive investigation works are required with regards to historical coal mining activities.

#### **3.3 Potential Geological Hazards: -**

Table 3.1 provides a summary of the property specific information on the potential hazards related to natural ground subsidence.

**Table 3.1**

<b>Potential Hazard</b>	<b>Comments</b>
<b>Land Slip:</b>	Low (W) / Very low risk (SE).
<b>Shrinkable Soils:</b>	No hazard (SE) / Low risk (W).
<b>Collapsible Soils:</b>	No hazard / Very low risk.
<b>Compressible Soils:</b>	Moderate (W) / No hazard (SE).
<b>Running Sand:</b>	Low (W) / Very low (SE).
<b>Dissolution:</b>	The site does not fall within the brine subsidence solution or compensation area.

### 3.0 Environmental Setting (Cont'd)

#### 3.4 Site Hydrogeology: -

Table 3.2

<b>STRATA</b>	<b>Aquifer / Soil Leachability EA Classification</b>	<b>Comments</b>
<b>Groundwater Vulnerability:</b>	Secondary Superficial Aquifer - Medium Vulnerability - (combined)	Productive bedrock aquifer, Productive superficial aquifer. Intermediate pollutant speed (>550mm / year).
<b>Superficial Deposits: (Glaciofluvial Sheet Deposits)</b>	Secondary Aquifer - A	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.
<b>Solid Geology: (Llanishen Conglomerate)</b>		

- There are no Source Protection Zones (SPZ) on or within c.1km of the site boundary.
- There are three water abstraction points recorded between c.209m and c.236m of the site boundary (Production of Energy: Hydroelectric Power Generation – License No. Wa/057/0025/005 and Wa/057/0025/009).

#### 3.5 Site Hydrology: -

Table 3.3

<b>SURFACE WATER FEATURE</b>	<b>Location</b>	<b>Comments</b>
<b>OS Water Network &amp; GQA Classified River:</b>	Thirty-two recorded within c.250m.	EC Ref. 42 to 73 between c.61m and c.245m off-site corresponding to inland river (River Taff, Melingruffydd Feeder and Glamorganshire Canal).
<b>Unclassified Watercourse(s), Canals, Ponds, Lakes &amp; Other Bodies of Water:</b>	Two recorded within c.250m.	Two small pond features are recorded c.63m and c.109m to the southwest.
<b>Flooding from River or Sea: (Fluvial &amp; Tidal)</b>	The site lies within an area that is not susceptible to tidal flooding, with delineated areas of fluvial flooding recorded in the southwest.	Natural Resources Wales considers the majority of the site to be in an area with a very low chance of flooding (<0.1%). A low-risk rating is designated within delineated areas in the southwest of the site (0.1% to 1.0% chance per year).
<b>Surface Water Flooding: (Pluvial)</b>	The published EA data shows that the site is not considered to be at risk from pluvial flooding.	The EA considers the majority of the site to be at very low risk from surface water pluvial flooding (with <0.1% annual chance). Appropriate surface water management should be adopted to deal with the future management of positively drained surface water.
<b>Groundwater Flooding at Surface (BGS):</b>	The site is shown to be susceptible to potential for groundwater flooding of property at surface / to occur at the surface.	Given the nature of the geological deposits below this site and the nature of the proposed development, groundwater flooding is not considered to be a potential risk to this site.

### 3.0 Environmental Setting (Cont'd)

#### 3.5 Site Hydrology (Cont'd): -

Table 3.3 (Cont'd)

<u>RAINFALL</u>	<u>Measurements (mm)</u>	<u>Comments</u>
Annual:	1043.23	Based on 'station average' records from St-Athan (Vale of Glamorgan), dated from 1991-2020.
Rainfall: Min (Apr)	62.96	
Rainfall: Max (Dec)	118.83	

#### 3.6 Radon Assessment: -

The site is recorded to lie within a lower probability radon area, with less than 1% of homes estimated to be at or above the action level, in accordance with the BGS, National Geoscience Information Service, and their assessment suggests that no radon protective measures are necessary in the construction of new dwellings or extensions. This corresponds with the BRE Digest, BR211 (2007) Radon: Guidance on protective measures for new buildings, the site is situated within a clear grid square (1km), and therefore no radon protective measures are required for the site.

#### 3.7 Site Ecology: -

Table 3.4

<u>FEATURES</u>	<u>Location</u>	<u>Comments</u>
Local Nature Reserves:	One recorded on-site and two within c.250m.	EC Ref. 283 to 285 – one located on site and two located up to c.238m off-site – Glamorganshire Canal.
Areas of Adopted Green Belt:	None recorded within c.250m.	~
Sites of Special Scientific Interest:	One recorded within c.250m.	EC Ref. 286 – one located c.112m offsite (Ref: 5233wvr - Glamorgan Canal / Long Wood).
Nitrate Vulnerable Zone:	None recorded on-site.	~
Ancient Woodland:	Eight recorded within c.250m.	EC Ref. 247 to 253 – located c.9m to c.250m off-site (Ancient and Semi-Natural Woodland / Restored Ancient Woodland – Long Wood Nature Reserve).

At this stage, and from the site reconnaissance (walkover) survey undertaken, there is no evidence to suggest that the site is affected by the presence of invasive weed species (i.e. Japanese Knotweed).

#### 3.8 Estimated Soil Chemistry: -

Data provided by the BGS in relation to estimated soil chemistry for a number of key metals and metalloid elements is summarised in Table 3.5 below. Note; the references to the anticipated background concentrations of contaminants, sourced from the BGS, should not be relied upon. They are not site-specific and do not represent the condition of the ground at the proposed development site.

Table 3.5

<u>Element</u>	<u>Soil Sample Type</u>	<u>Estimated Soil Concentrations (mg/kg)</u>
Arsenic	Sediment	<15
Cadmium	Sediment	<1.8
Chromium (total)	Sediment	60 – 90
Lead	Sediment	<100
Nickel	Sediment	15 – 30

## 4.0 Industrial Setting

### 4.1 Site History: -

Copies of historical OS maps covering the site area & adjacent land are included in Appendix III and a summary of the site history based on these plans, is provided in Table 4.1 below.

From the results of all the data sources reviewed, potential sources of ground contamination may be present on this site from historical contaminative activities associated with made ground materials as discussed in Section 3.1.1.

From the results of the site reconnaissance (walkover), there is no evidence of any unrecorded or indiscriminate waste tipping on the site.

**Table 4.1**

Significant features / potential contamination sources highlighted in **bold**.

<u>Date</u>	<u>Site</u>	<u>Adjacent Areas</u>
c.1875 – c.1975	The site is encompassed by a parcel of undeveloped land (agricultural fields).	The immediate adjoining land-use comprises undeveloped land. The River Taff lies c.47m to the west, beyond which lies a <b>railway line</b> . An <b>old Mill</b> is shown adjacent to the river. A canal is recorded c. 188m to the east. On OS Map dated c.1920 a further <b>railway</b> lies c.162m to the northeast.
c.1982 – c.1986	The central portion of the site is formed by a <b>factory complex</b> (comprising various <b>process buildings</b> inc. a <b>sub-station</b> , <b>chimneys</b> and <b>tanks</b> ). A <b>raised earth mound / constructed bund</b> is present along the southwest site margin.	A minor carriageway (Long wood Drive) resides to the immediate north. A <b>gas valve compounds</b> is shown to the immediate southeast. The <b>railway</b> in the east is shown as <b>dismantled</b> . <b>Intermixed residential dwellings / light commercial development</b> is inferred beyond the <b>railway</b> to the west. The <b>M4 motorway</b> is recorded c.24m to the north.
c.1989	By c.1989 the <b>factory</b> has extended to the south, with a new <b>chimney</b> depicted.	The immediate adjoining land-use is relatively consistent with the earlier survey.
c.1992 – c.2000	The <b>factory</b> is labelled as <b>laboratories</b> .	Two <b>pond</b> features are shown c.63m and 109m to the southwest. By c.1993 a <b>factory</b> is recorded c.14m to the south beyond the carriageway. By c.1999 a new <b>factory unit</b> is shown c.213m to the south. The <b>gas valve compound</b> has extended and a <b>depot</b> is shown adjacent to the south. By c.2000 a further <b>factory</b> is depicted to the immediate southeast.
Present day (2022)	The recent walkover survey / Google imagery infers some of the former <b>buildings / plant</b> are demolished. There was evidence of <b>spoil of construction / demolition type debris</b> in the northeast of the site. Further detail is given in Table 2.1.	The immediate adjoining land-use is relatively consistent with the earlier survey.

Anecdotal evidence provided by the client indicates an area on site processed radioisotopes that has been since fully remediated and certified prior to recent land acquisition.



## 4.0 Industrial Setting (Cont'd)

### 4.2 UXO Risk: -

According to the Unexploded Bomb Risk Map produced by ZeticaUXO, the site lies within a low risk area in terms of unexploded ordnance (areas indicated as having 15 bombs per 1000acre or less). Based on the available records and given the nature of the proposed development, a Detailed UXO Risk Assessment in accordance with CIRIA guidelines is not considered necessary. A copy of the ZeticaUXO Unexploded Bomb Risk Map can be seen attached in Appendix III.

### 4.3 Landfill & Waste: -

The following information relating to landfill and waste has been obtained from the Envirocheck Report (attached in Appendix III) site walkover and published data;

- There are no Local Authority Recorded Landfill Sites, Historical Landfill Sites or Areas of Potentially Infilled Ground (Non-Water) within c.250m of the site.
- There are two areas of Potentially Infilled Ground (Water) recorded c.154m and c.177m to the northeast EC Ref. 150 and 151.
- There are no Licensed Waste Management Facilities or Registered Waste Transfer Sites recorded within c.250m of the site.

Following a review of the OS maps and other site-specific data, the potential risk from hazardous on-site ground gas generation is considered to be low in relation to the previous developmental interactions identified on and adjacent to the site i.e. possible placement of potentially decomposable made ground materials (not disclosed by the Envirocheck report), in addition to potential organic materials within glaciofluvial deposits.

### 4.4 Statutory Requirements / Authorisations: -

**Table 4.2**

TYPE	Location	Comments
<b>Enforcement and Prohibition Notices:</b>	None recorded within c.250m.	~
<b>Integrated Pollution Prevention and Controls:</b>	Two recorded on-site c.250m.	EC Ref.17 - Ge Healthcare Limited - Cardiff Laboratories / Cardiff Chemical Manufacturing, The Maynard Centre, Forest Farm Road, Whitchurch, Cardiff, CF14 7YT. (Natural Resources Wales - Permit Ref: ZP3435UQ / Bu4066ir). Status - Surrender Effective / Superseded by Variation.
<b>Local Authority Pollution Prevention and Controls:</b>	None recorded within c.250m.	~
<b>Prosecutions Relating to Authorised Processes:</b>	None recorded within c.250m.	~
<b>Registered Radioactive Substances:</b>	None recorded within c.250m.	~
<b>COMAH/Explosive/NI HHS Sites:</b>	None recorded within c.250m.	~
<b>Planning Hazardous Substances Consents / Enforcements:</b>	None recorded within c.250m.	~
<b>Contemporary Trade Entries:</b>	Three on-site and two offsite recorded within c.250m.	EC Ref. 182 to 184 – two active entries on-site related to Pharmaceutical Manufacturers & Distributors and Refrigerators & Freezers - Servicing & Repairs and one active entry located c.180m to the south related to Printers.

## 4.0 Industrial Setting (Cont'd)

### 4.4 Statutory Requirements / Authorisations (Cont'd): -

**Table 4.2**

<b>TYPE</b>	<b>Location</b>	<b>Comments</b>
<b>Fuel Station Entries:</b>	None recorded within c.250m.	~
<b>Points of Interest:</b>	Fifteen within c.250m.	EC Ref. 212 to 213:- one recorded on site and one c.168m off-site – Commercial Services (Distribution and Haulage, Vehicle Repair, Testing & Servicing). EC Ref. 220 to 223:- three recorded on-site Tanks (Generic) and six within c.220m off-site - Manufacturing & Production (Unspecified Works or Features, Energy Production). EC Ref. 230 and 231:- two recorded off-site within c.188m (Waste Storage, Processing and Disposal (Outfall), Weirs, Sluices and Dams). EC Ref. 237

### 4.5 Pollution Incidents and Discharge Consents: -

**Table 4.3**

<b>TYPE</b>	<b>Location</b>	<b>Comments</b>
<b>Discharge Consents:</b>	Eleven recorded within c.250m.	EC Ref.1 located c.52m southwest – Ge Healthcare - Sewage Discharges - Final/Treated Effluent - Not Water Company Authorisation – Revoked (Ref. AG0014301). Ref. EC.2 located c.57m northwest - Dwr Cymru Cyfyngedig - Trade Discharges - Site Drainage – Status- Effective (Ref. Af4004701). EC Ref.3 Dwr Cymru Cyfyngedig - Water Treatment Works - Trade Discharges - Site Drainage – Status: Effective. (Ref. Af3005001). EC Ref.4 located c.169m and c.173m to the north - Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company. Status – Effective. (Ref. An0319201).
<b>Prosecutions Relating to Controlled Waters:</b>	None recorded within c.250m.	~
<b>Pollution Incidents to Controlled Waters:</b>	Eighteen recorded within c.250m.	EC Ref. 21 to 26 located c.74m to c.242m off-site - Pollutant: Crude Sewage / Oils - Diesel (inc. Agricultural), Chemicals – other organic / Rubble, Litter or Solids / Mud, Clay, Silt – Category 2 – Significant Incident. Cement / Mortar, Light Oil, Mud, Clay, Silt, - Category 3 - Minor Incident.
<b>Substantiated Pollution Incident Register:</b>	None recorded within c.250m.	~
<b>Water Industry Act Referrals:</b>	None recorded within c.250m.	~

## 5.0 Conceptual Site Model (CSM)

The Conceptual Site Model (CSM) is one of the primary planning tools that can be used to support the decision-making process of managing contaminated land and groundwater on any given site and allows a better understanding of what needs to be done to achieve risk management, and from this appropriate remediation techniques, if required for those risk management goals can be chosen.

This can be done by undertaking a *source-pathway-receptor* analysis of the site. The anticipated *sources*, *pathways* and *receptors* for this site are summarised in Table 5.1 below. A graphical representation of the CSM has been produced for the site and can be seen attached in Appendix IV, which also sets out the critical pollutant linkages of concern for this site.



## 5.0 Conceptual Site Model (CSM) (Cont'd)

### 5.1 Geotechnical Considerations: -

The following potential geotechnical issues and hazards have been identified for this site. These issues should be considered should future development of the site is to take place;

- Depth, type and condition of made ground deposits across this site.
- Geotechnical parameters of the natural deposits underlying the site and depth to suitable load bearing founding strata.
- The presence of possible underground services (i.e. gas, water, electricity, etc.).
- Control of surface water drainage.
- Possible relic in-ground features foundations including a possible basement / plant room (able to out with the development areas).
- Stability of excavations within any natural granular deposits and made ground present.
- Chemical attack of buried concrete.
- Shallow perched groundwater in any made ground if present.

To determine the geotechnical considerations above with more certainty, if any new foundations are envisaged it is recommended that intrusive geotechnical investigation works are undertaken with associated geotechnical testing to aid in assessing detailed foundation proposals.

The information reviewed indicates that the site can be considered as being located within a **LOW to MODERATE** geotechnical risk setting.

**Table 5.1**

\*= Not included in the Human Health & Controlled Waters Risk Assessment.

	<i>Sources (S)</i>		<i>Pathways (P)</i>		<i>Receptors (R)</i>
<b>S1</b>	Made ground associated with the site commercial use (construction debris / demolition arisings (with potential ACM's) and within the artificially constructed bund (of unknown composition).	<b>P1</b>	Ingestion & Dermal Contact.	<b>R1</b>	Human health - (End users and construction workforce).
		<b>P2</b>	Plant uptake and attached soils (in landscaped areas).		
<b>S2</b>	Potential point and / or diffuse source pollutants i.e., factory / laboratory process wastes.	<b>P3</b>	Air-inhalation of vapours and direct contact with dust.	<b>R2</b>	Controlled Waters: Groundwater – anticipated within the underlying bedrock and superficial deposits (Secondary Aquifer -A) and possibly perched within made ground. Several surface water features (River Taff, Melingruffydd Feeder and Glamorganshire Canal) lie within a plausible distance to the site.
<b>S3</b>	Potential sources of hazardous ground gases (associated with any made ground beneath the site) – considered to be a low risk.	<b>P4</b>	Migration through existing services / permeable strata.		
		<b>P5</b>	Direct contact with Building Materials.	<b>R3</b>	Adjacent sites.
				<b>R4*</b>	Building materials.
		<b>P6</b>	Surface runoff, Infiltration & Leachate migration.	<b>R5*</b>	Flora and fauna.

## **5.0 Conceptual Site Model (CSM) (Cont'd)**

### **5.2 Sources of Contamination and Probable Contaminants: -**

#### **Soils - Human Health:**

The historical Ordnance Survey maps within the Landmark Envirocheck Report and other environmental information reviewed indicates that there may be potential sources of ground contamination beneath the site, including any construction / demolition wastes and possible point / diffuse source pollutants (former spillages etc) associated with the Life Science R & D site and also contained within the artificially constructed bund at the southwest of the site (refer to Section 3.1.1).

No olfactory or visual evidence (i.e. distinct odours or surface staining) of ground contamination was apparent during the site reconnaissance survey.

It is considered the level of risk posed to human health and the local environ overall in connection with any future commercial development is as below.

The information reviewed indicates that the site can be considered as being located within a **LOW to MODERATE** ground contamination risk setting for Human Health.

In order to assess the associated risks to human health and environmental impact the following outline geo-environmental testing is recommended:

- Generic contamination suite, typically comprising; Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Zinc, Total Organic Carbon, (TOC), pH and PCBs (if insulating oils are noted or suspected).
- Asbestos screening (and quantification if encountered).
- Speciated Polyaromatic Hydrocarbons (PAHs) and Total Petroleum Hydrocarbons (TPHs) should be undertaken, where ashy type deposits are encountered and if there is any visual or olfactory evidence of fuels/oils or other wastes present in the ground.
- Possible SVOC / VOC screening if olfactory and / visual evidence is encountered.

Waste Acceptance Criteria (WAC) testing may be required to aid in off-site disposal classification of waste soils.

In addition based on the possible presence of artificially placed anthropogenic fill materials and organic materials within glaciofluvial deposits, in order to validate the gas regime at the site, during any future construction works, it is recommended that a programme of ground gas monitoring is undertaken, as part of the investigation works for the development, in accordance with CIRIA 665 and BS8485:2015+A1:2019.

Consideration should also be given to the protection of any new service pipes for the proposed development, and a suite of contamination testing (UKWIR suite) may be required in order to meet the requirements of the local utilities service provider for their 'pipe selection risk assessment' (PSRA), once the location and depth of future services have been determined.

## **5.0 Conceptual Site Model (CSM) (Cont'd)**

### **5.2 Sources of Contamination and Probable Contaminants (Cont'd): -**

#### **Controlled Waters:**

The following issues have been taken into consideration when assessing the risks towards controlled waters;

- There are no Source Protection Zone (SPZ) on site or within 1km of the site boundary.
- There are three Water Abstractions recorded within c.209m and c.239m of the site.
- Possible shallow perched groundwater in the made ground, which is very unlikely to represent a potable water resource.
- Sources of leachable contaminants may be present on site (associated with the former placement of an earth mound / artificially constructed bund at the southwest site margin).
- There are several surface water features recorded within a plausible distance of the site (including River Taff, Melingruffydd Feeder and Glamorganshire Canal and two pond features).

The information reviewed indicates that the site can be considered as being located within a **LOW** ground contamination risk setting for Controlled Waters.

## **6.0 Recommendations for Phase 2: Ground Investigation Works**

The conclusions contained within this report have been based on a review of geological plans, historical plans and available environmental data relating to the site and nearby adjacent land and forms the basis of a preliminary risk assessment. The primary benefits of undertaking this report are as follows:

- (i) Identify the geotechnical and / or geoenvironmental characteristics of the ground in sufficient detail to quantify the groundwater flood risk at the site and for the economic design of any future site / proposed development, construction or associated remedial works.
- (ii) Minimise the risk of unforeseen ground conditions which might cause increased costs and / or programme (construction) delays later.

Therefore, it is recommended that a programme of Phase 2: Ground Investigation (intrusive investigation) works are completed for this site to provide an assessment of the geo-environmental characteristics of the site.

These intrusive investigation works should be completed prior to commencing with any future development works, and ideally post demolition of the current buildings on site (where applicable) and should include for the following or a similar scope of investigation works:

- A series of cable percussive boreholes should be undertaken, including insitu geotechnical testing (SPT testing, etc.) and sampling to help aid with future foundation design for the proposed development and to collect samples for subsequent laboratory testing.
- A series of windowless sample boreholes with associated in-situ testing and sampling.
- Installation of combined ground gas & groundwater monitoring wells accompanied by an appropriate number of monitoring visits (in accordance with CIRIA C665 & BS8485), to determine the ground gas and groundwater regime below the site.
- Laboratory geotechnical testing (i.e. PSD, liquid & plastic limit, pH & soluble sulphate testing etc.).

---

## **6.0 Recommendations for Phase 2: Ground Investigation Works (Cont'd)**

- Laboratory contamination screening on selected samples recovered from the investigation positions for typical contaminants as detailed in Section 5.2 to assess the risks to Human Health and Controlled Waters. Samples of soil collected will be forwarded to UKAS and MCERTS accredited laboratory to undertake the recommended testing.
- Waste Acceptance Criteria (WAC) to aid in off-site disposal classification.
- Site supervision and production of RAMS and an interpretive Phase 2: Ground Investigation Report, including a Ground Contamination Risk Assessment and Waste Classification of soils.

Prior to site investigation works commencing on site, all existing utilities / services should be identified and recorded, such that any potential damage to services crossing the site can be prevented, as well as ensuring the health and safety of future site workers.

**END OF REPORT**

# **APPENDIX I**

**Location Plan**

**Aerial Photograph**

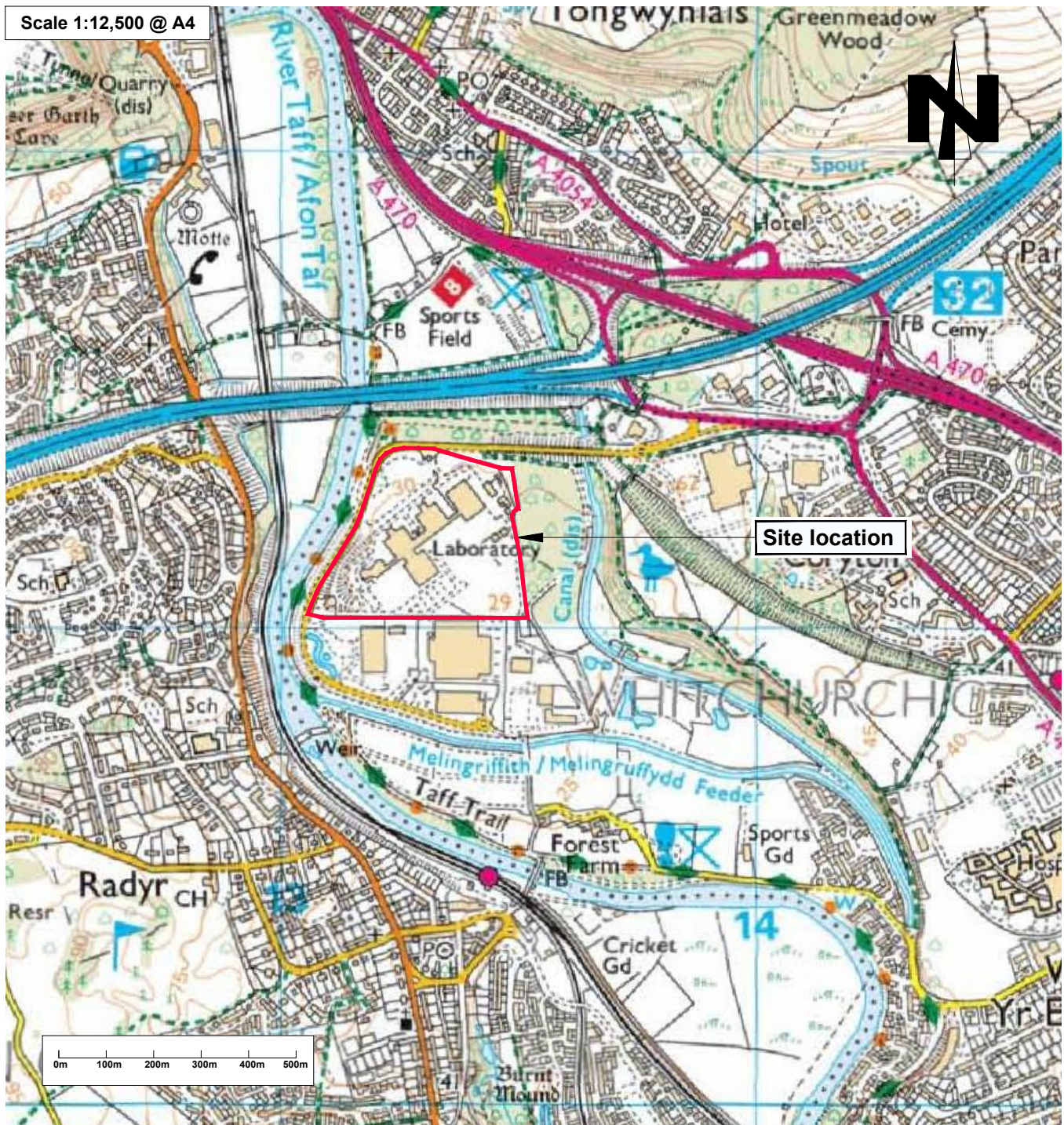
**Existing Site Layout Plan**

**Proposed Development Layout Plan**

**Site Photographic Record Sheets**



Scale 1:12,500 @ A4



Client: **HSRE-TRINITY CARDIFF  
EDGE LIMITED**

Project Title:  
Proposed Commercial Development  
Cardiff Edge Life Sciences Park  
Longwood Drive, Cardiff, CF14 7YT

Drawing Title:  
Location Plan

Job Reference:  
21-712

Drawing Number:  
-

Revision:  
-

Drawn by:  
P.D

Date:  
31.05.22

Scale at A4:  
As Shown

Checked by:  
G.W

Approved by:  
G.W

The contractor shall check all dimensions on site before commencement of any works. No dimensions to be scaled off this drawing.

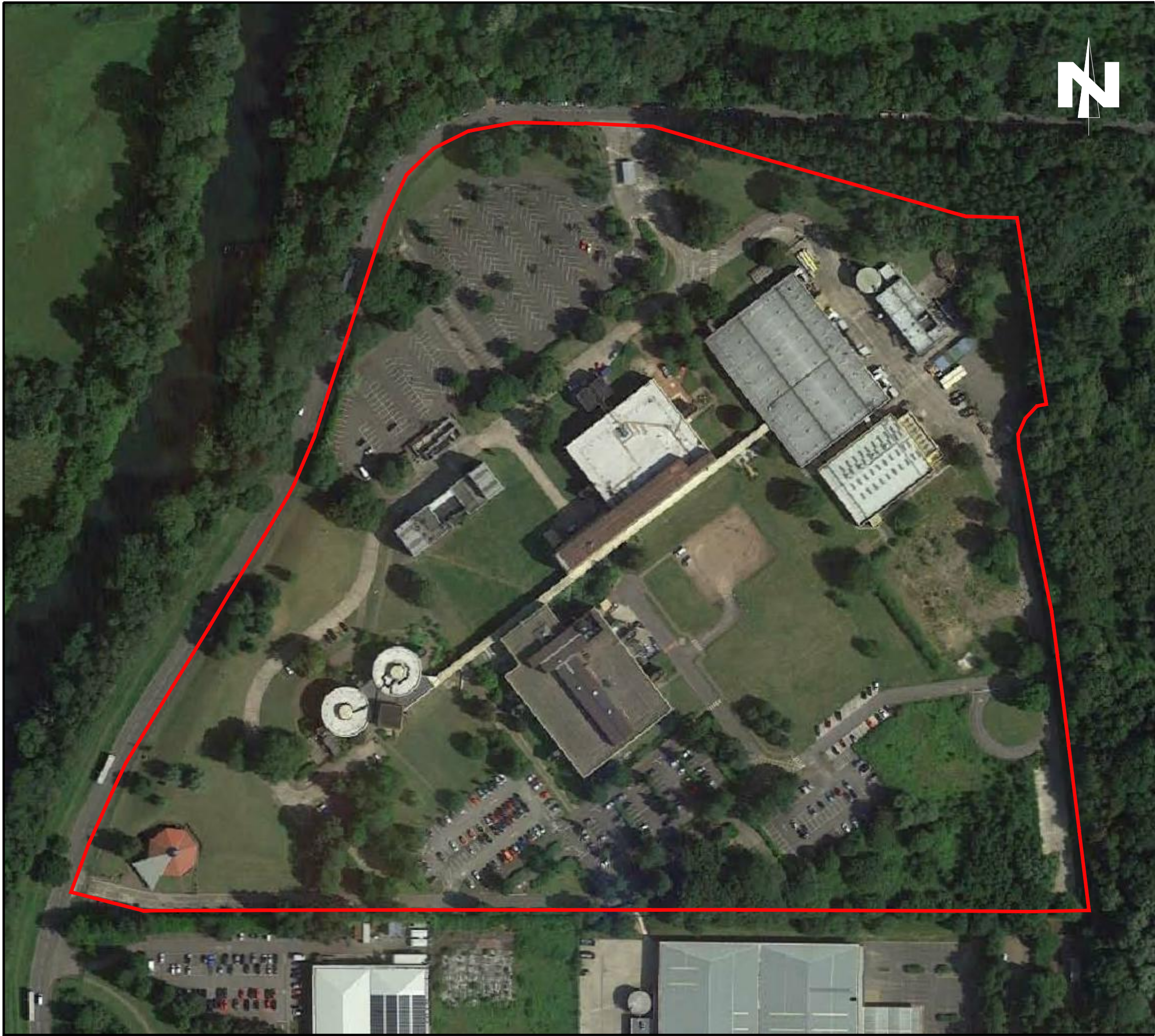
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LEGEND	
	APPROXIMATE SITE BOUNDARY


rev.	date	amendments	drawn	chckd
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Client: **HSRE-TRINITY CARDIFF  
EDGE LIMITED**

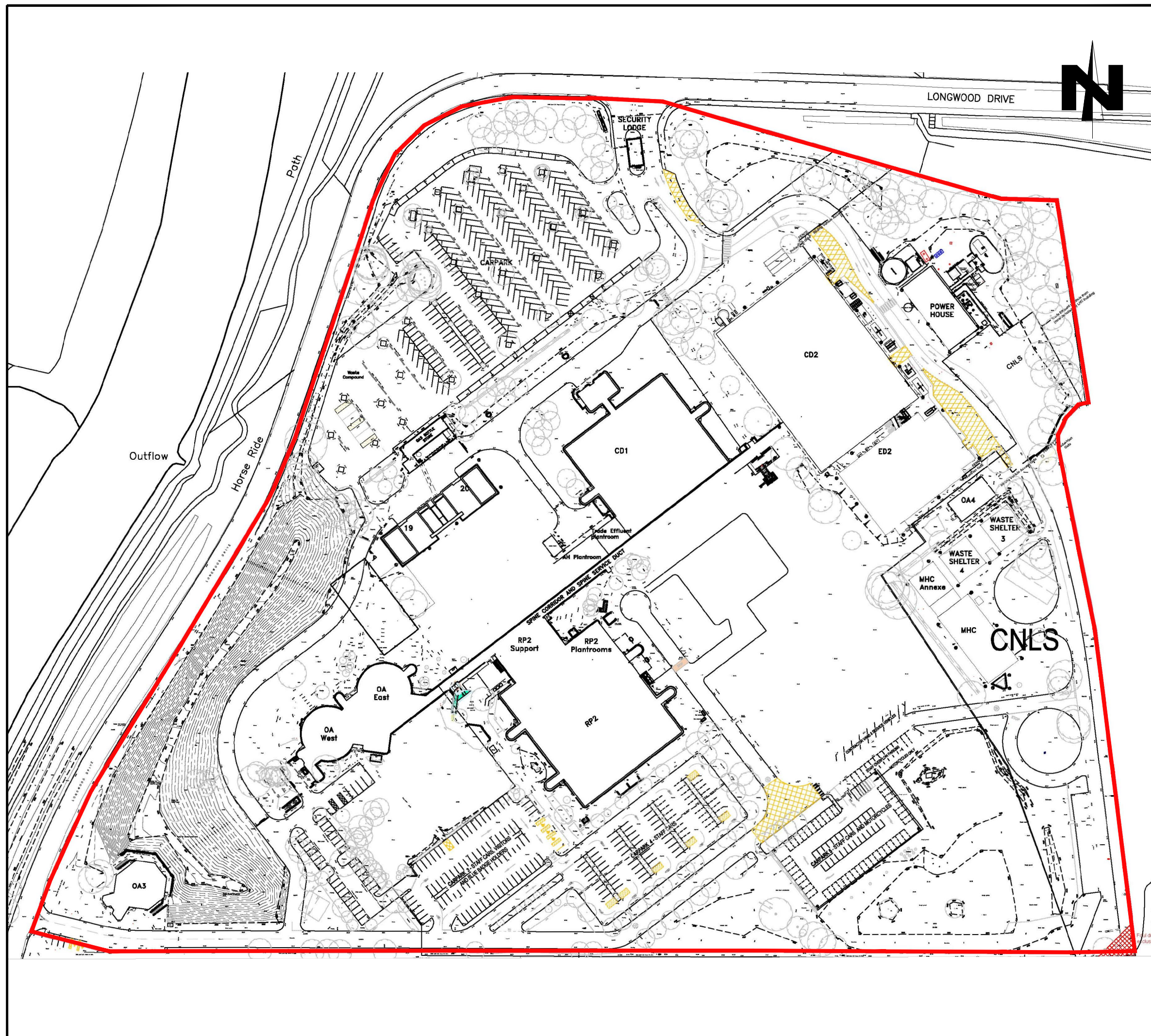
Project Title:  
Proposed Commercial Development  
Cardiff Edge Life Sciences Park  
Longwood Drive, Cardiff, CF14 7YT

Drawing Title:  
  
Aerial Photograph

Scale at A3:	Date:	Drawn by:	Approved by:
As Shown	31.05.22	P.D	G.W

Job Ref:	Drg no:	Rev:
21-712	—	—





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LEGEND	
	APPROXIMATE SITE BOUNDARY

rev.	date	amendments	drawn	chkd

Client:  
**BJB CONSULTING LTD**

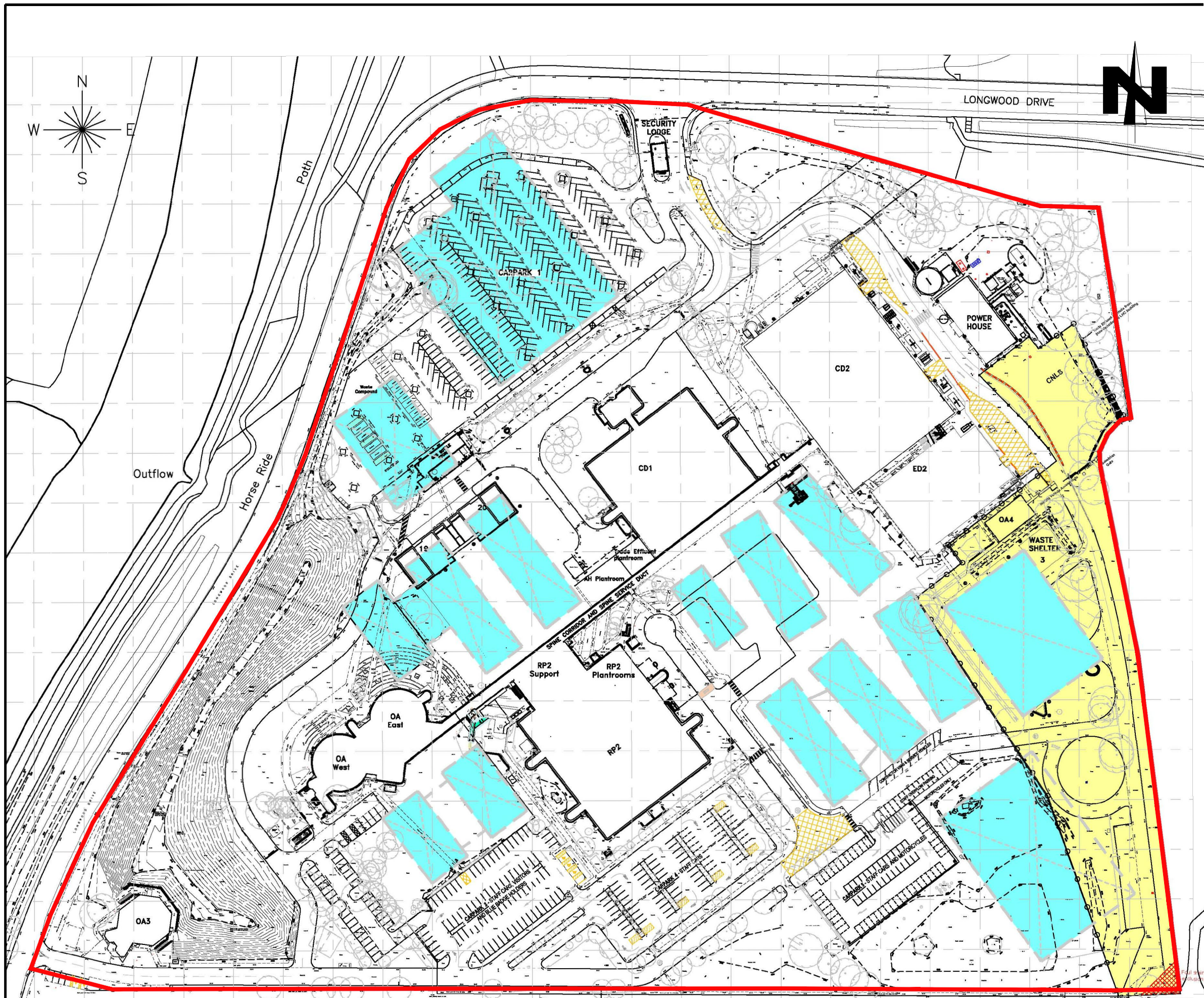
Project Title:  
Proposed Commercial Development  
Cardiff Edge Life Sciences Park  
Longwood Drive, Cardiff, CF14 7YT

Drawing Title:  
Existing Site Layout Plan

Scale at A3: As Shown	Date: 31.05.22	Drawn by: P.D	Approved by: G.W
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LEGEND	
	APPROXIMATE SITE BOUNDARY

rev.	date	amendments	drawn	chkd

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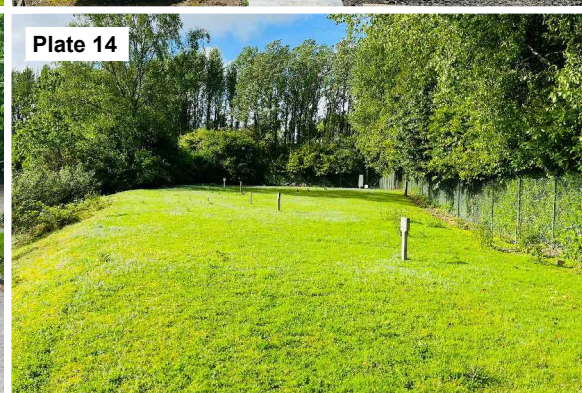
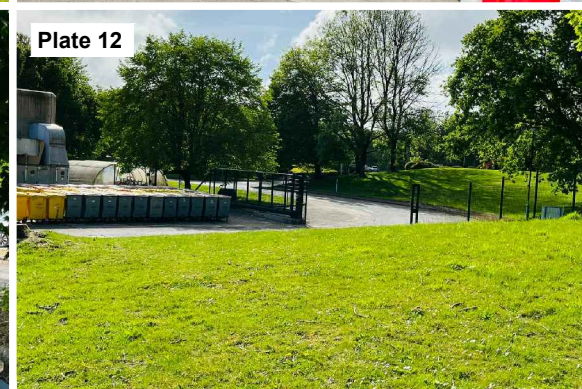
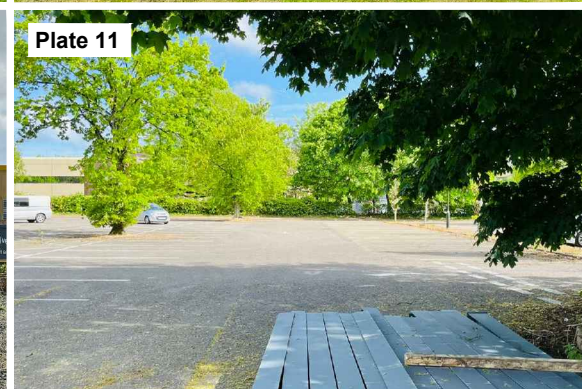
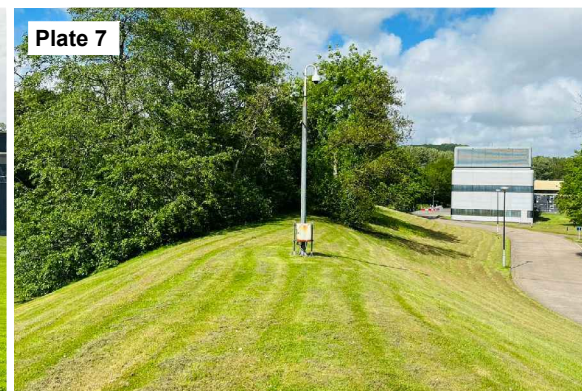
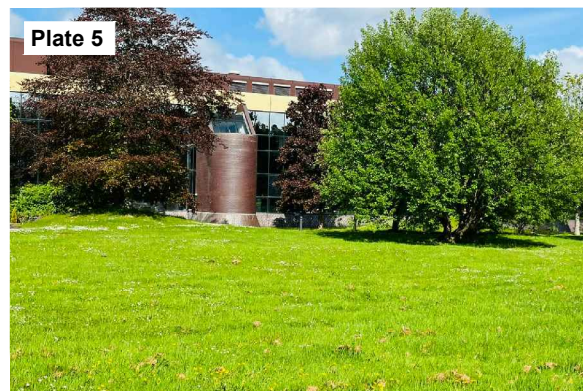
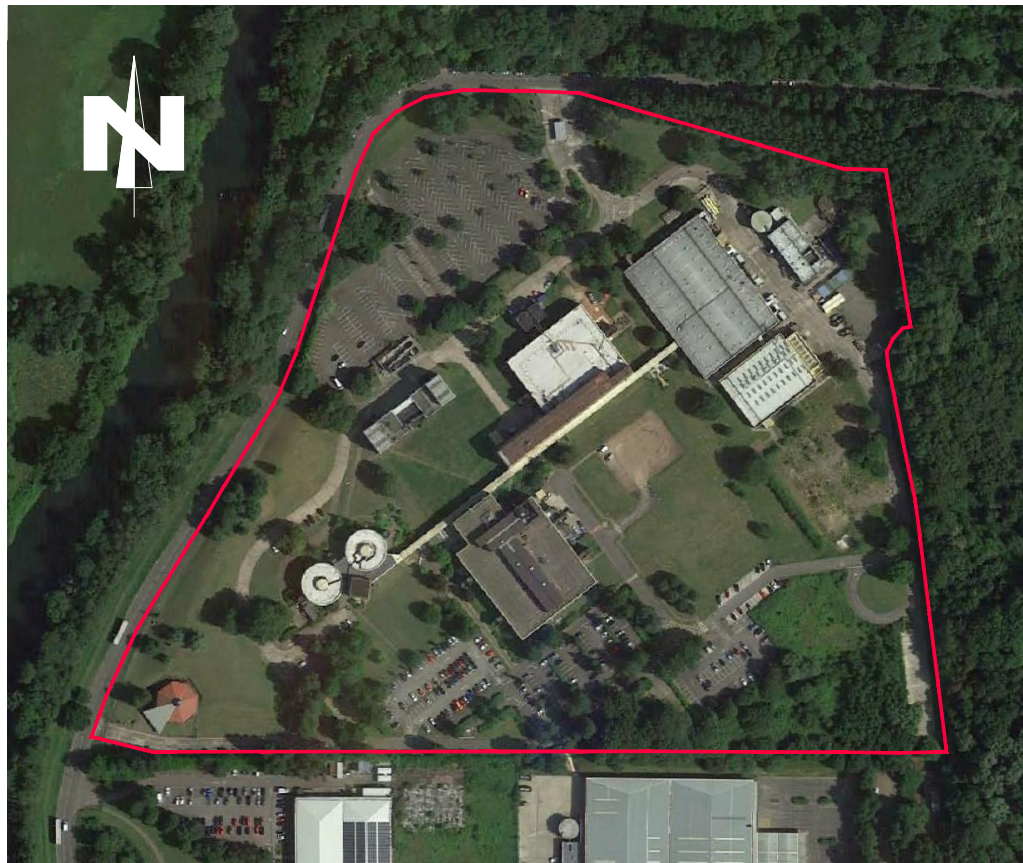
Project Title:  
 Proposed Commercial Development  
 Cardiff Edge Life Sciences Park  
 Longwood Drive, Cardiff, CF14 7YT

Drawing Title:  
 Proposed Development Layout Plan

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Job Ref:	Drg no:	Rev:
21-712	—	—





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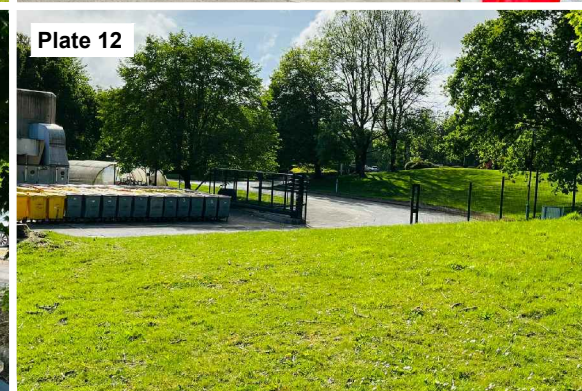
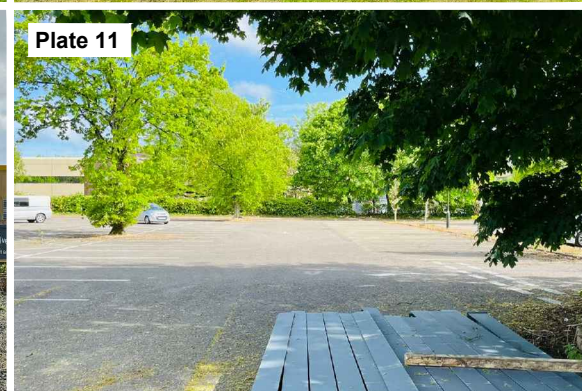
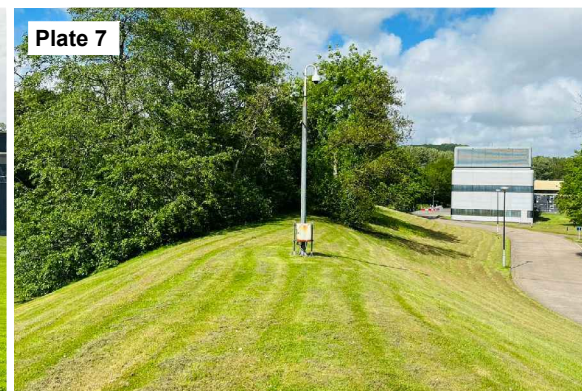
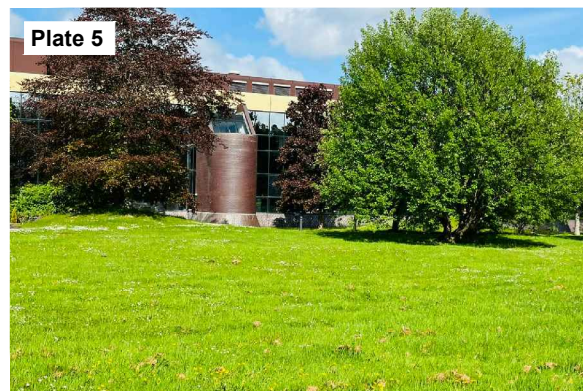
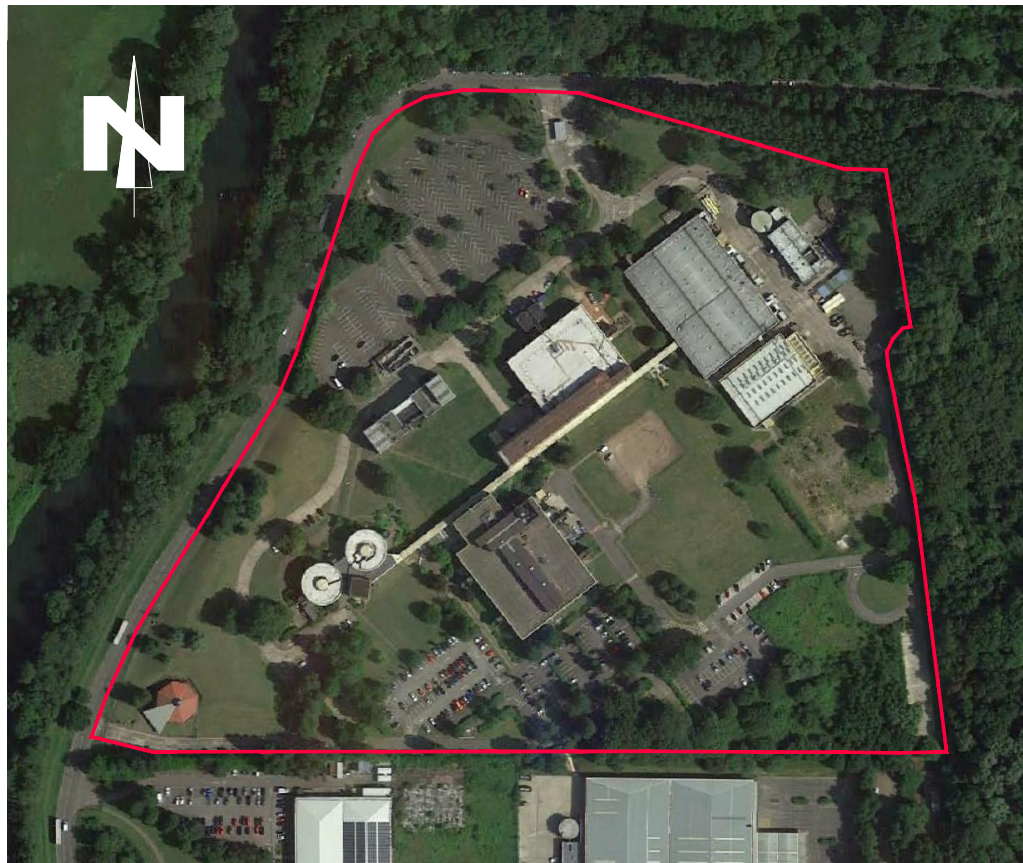
Project Title:  
Proposed Commercial Development  
Cardiff Edge Life Sciences Park  
Longwood Drive, Cardiff, CF14 7YT

Drawing Title:  
Site Photographic Record Sheet 1

Scale at A3: As Shown	Date: 31.05.22	Drawn by: P.D	Approved by: G.W
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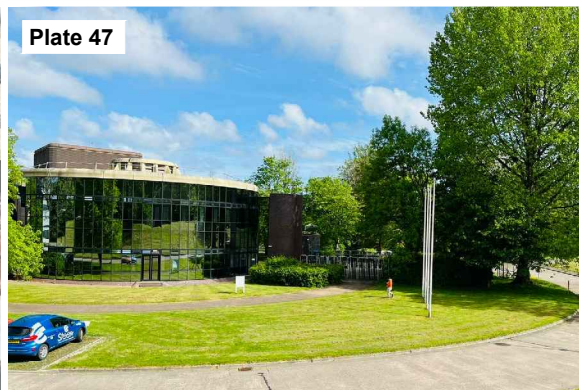
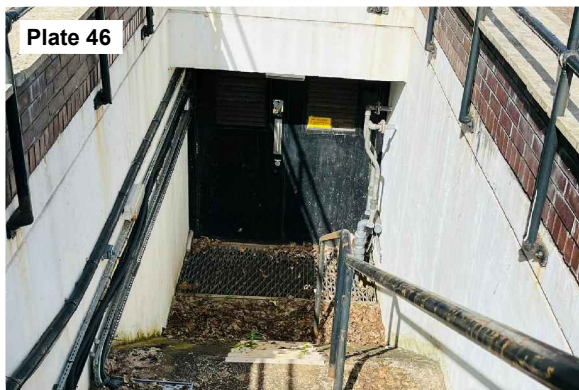
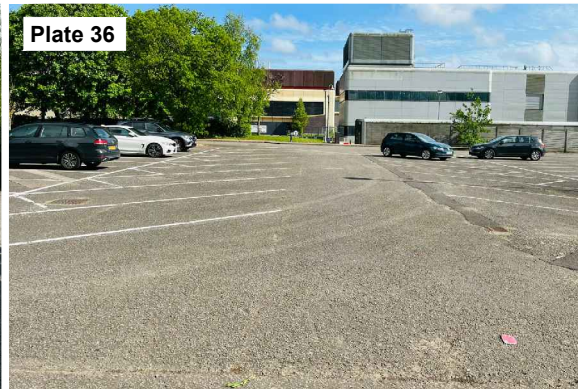
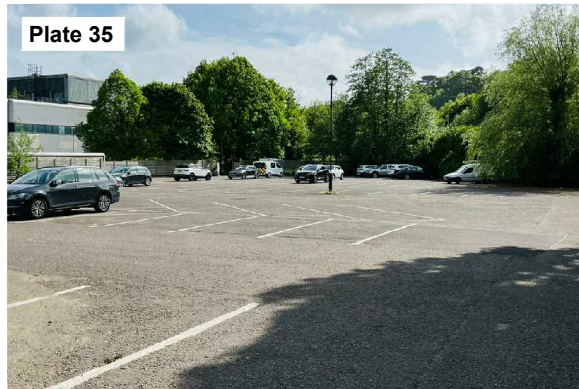
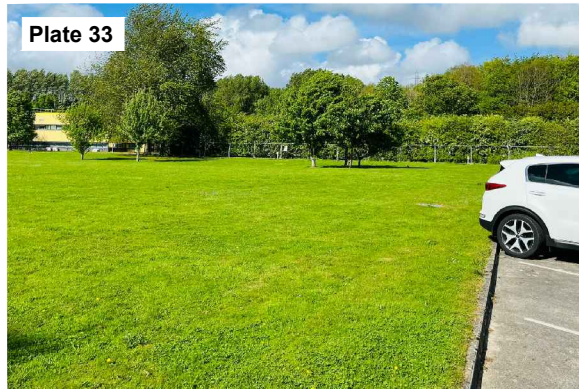
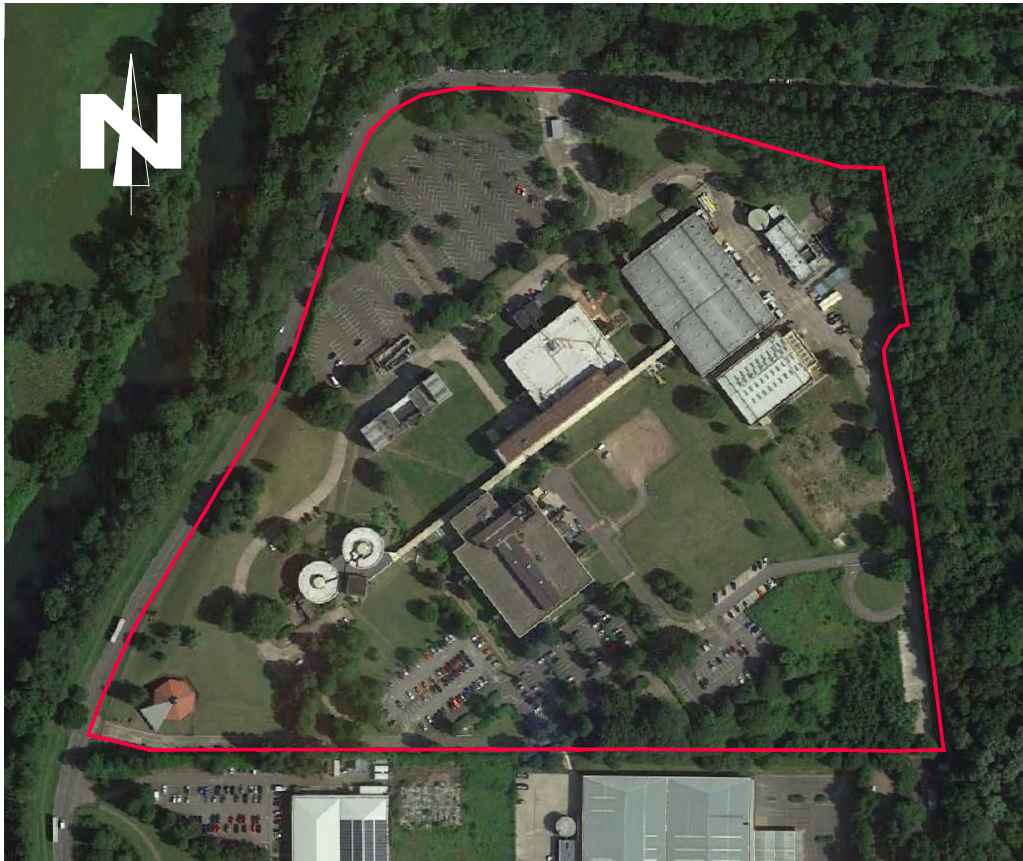
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Drawing Title:  
Site Photographic Record Sheet 2

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Job Ref: 21-712	Drg no: —	Rev: —	





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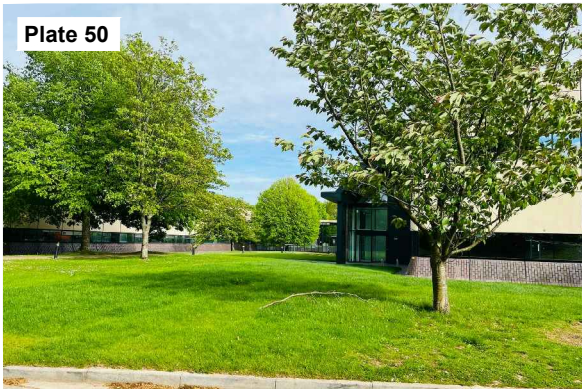
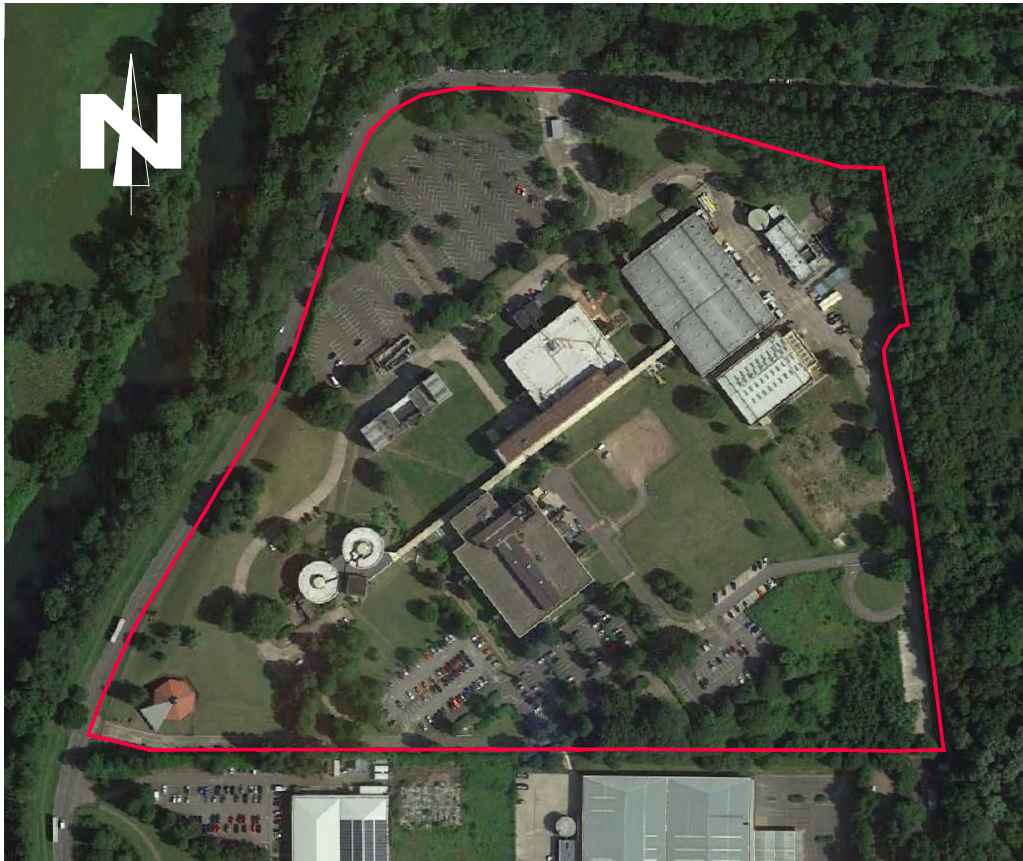
Client: **HSRE-TRINITY CARDIFF  
EDGE LIMITED**

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Proposed Commercial Development  
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Longwood Drive, Cardiff, CF14 7YT

Drawing Title:  
Site Photographic Record Sheet 3

Scale at A3: As Shown	Date: 31.05.22	Drawn by: P.D	Approved by: G.W
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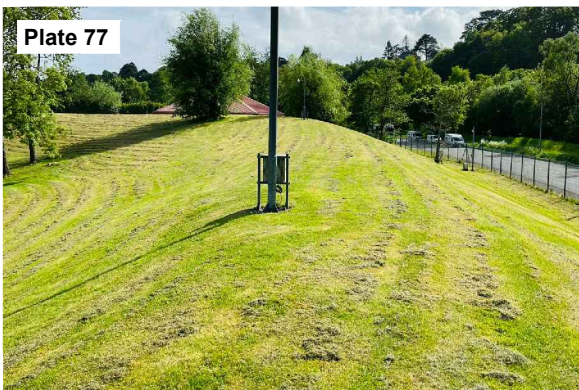
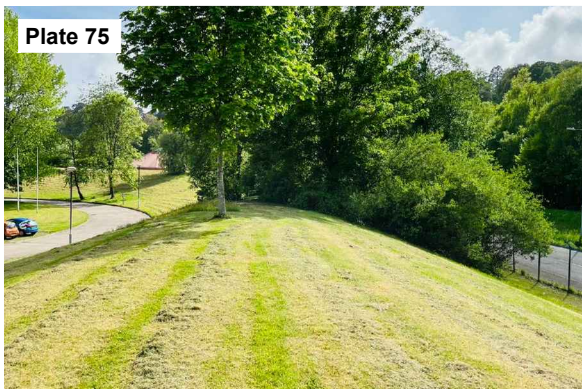
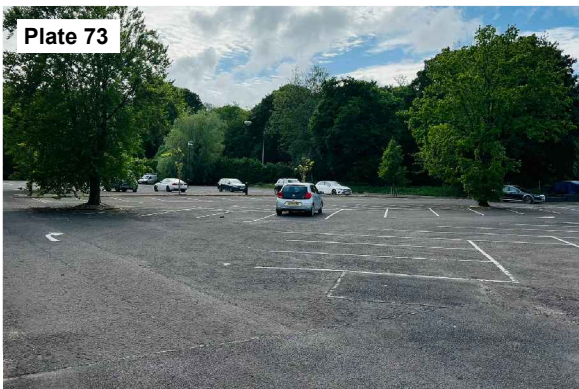
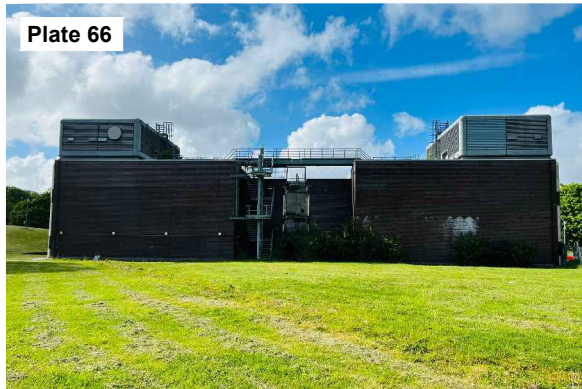
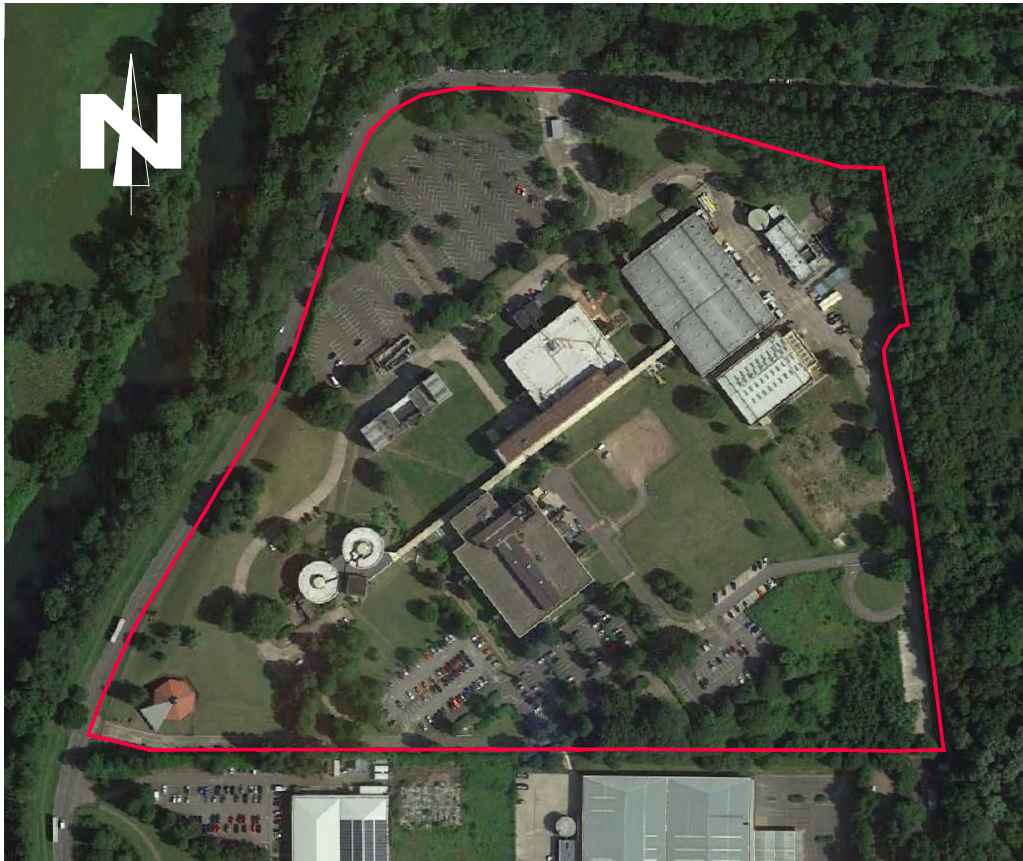
Client: **HSRE-TRINITY CARDIFF  
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Project Title:  
Proposed Commercial Development  
Cardiff Edge Life Sciences Park  
Longwood Drive, Cardiff, CF14 7YT

Drawing Title:  
Site Photographic Record Sheet 4

Scale at A3: As Shown	Date: 31.05.22	Drawn by: P.D	Approved by: G.W
Job Ref: 21-712	Drg no: —	Rev: —	





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rev.	date	amendments	drawn	chckd

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Project Title:  
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Cardiff Edge Life Sciences Park  
Longwood Drive, Cardiff, CF14 7YT

Drawing Title:  
Site Photographic Record Sheet 5

Scale at A3: As Shown	Date: 31.05.22	Drawn by: P.D	Approved by: G.W
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Job Ref: 21-712	Drg no: —	Rev: —
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# **APPENDIX II**

## **Archive Borehole Records**





GEO - RESEARCH LTD.

B/H No.

CONTRACT PROPOSED INDUSTRIAL DEVELOPMENT  
LOCATION FOREST FARM, CARDIFF

SHEET No.

1

No. of sheets

1

CLIENT  
CITY OF CARDIFF

Percussion

CASING

Ground Level 28.53m

Size to. Size to.  
0.150 3.050

Commenced 2/3/71

Completed 3/3/71

Weather

Rotary

Cored runs

O/H

Legend

5

6

7

8

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GEO - RESEARCH LTD.

B/H No. 11

CONTRACT PROPOSED INDUSTRIAL DEVELOPMENT  
LOCATION FOREST FARM, CARDIFF

SHEET No. 1

No. of sheets 2

Ground Level 27.08m

Commenced 12/3/71

Completed 15/3/71

CLIENT  
CITY OF CARDIFF

Percussion

U  
D

SPT

B

O/H

CASING

Size to. Size to.

0.150 4.570

Weather

STRATUM. (Scale: 20mm to 1 metre)

1.	Thickness	Depth 2m	Sample No.	Blow Count (N) LL/PL/PI	Legend	6.	7.	8	Results of any other Tests	10.
Black sandy topsoil	0.15	0.15	B1		X X X					
Stiff silty light grey/brown clay	0.30	0.30	U1	35, 18, 17 (01/GI)	X	24.0	TAQ		1980 166 100	
	0.61	0.61	B2*		X	22.7	SO, S	0.02	1970 203 200	
	0.76	0.91				23.9			1990 170 400	
Dense becoming very dense poorly graded gravel.	1.07		P1	6, 8, 10, 9. (33)						
	1.83		P2	18, 12, 12, 14 (56)					100	
	1.98		B3						85 57 34 21 16 13 8 4 3 1	
	2.13	3.05								
Very dense uniform coarse gravel, cobbles and boulders.	3.20		B4	14, 14, 16, 18 (62)						
	4.27		B5						100	
	4.57		P4	16, 16, 18, 20 (70)					70 30 18 14 12 10 6 2 1 1	
	5.94		P5	18, 18, 20, 22 (80)						
	6.10		B6						100 81 52 18 16 14 13 11 7 2 1 1	
	7.01		P6	18, 20, 22, 24 (84)						
	7.32		B7							
	4.88	7.92								
Continued on sheet 2										

## REMARKS:

\* B2 Moisture content 25.0

Sample	Depth	M.C. % D.W.	C. B. R.						COMPACTION			
			Air Voids	Type	TOP		BOTTOM		Value	B.S. 1377 No.	Max. Dry Density	Optm. M.C.
					0.1	0.2	0.1	0.2				
B2	0.61	25.0	2.65	%	Static	2	2	3	3			

GEO - RESEARCH LTD.

B/H No.

12

CONTRACT PROPOSED INDUSTRIAL DEVELOPMENT

SHEET No. 1

LOCATION FOREST FARM, CARDIFF

No. of sheets 1

CLIENT

Ground Level 25.76m

Commenced 10/3/71

Completed 10/3/71

CITY OF CARDIFF

Weather

Percussion

CASING

Size to. Size to.  
0.150 5.490

Rotary

M.C.

Type

Grading %

Passing Sieve

TRIAXIAL TEST

WATER

REMARKS

STRATUM. (Scale: 20mm to 1 metre)

Blow Count (N)

LL/PL/PI

1. Thickness

Depth

Sample No.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.

21.

22.

23.

24.

25.

Dark brown/black

topsoil

0.30

0.30

D1

23.16.7.

(41)

16.3

TAQ

24.1

SO<sub>s</sub>

0.01

Silty brown clay with

footlets.

0.30

0.61

U1

23.16.7.

(41)

16.3

TAQ

24.1

SO<sub>s</sub>

0.01

Very stiff very sandy

clay with pebbles.

0.38

0.99

U1

23.16.7.

(41)

16.3

TAQ

24.1

SO<sub>s</sub>

0.01

Very dense poorly

graded sandy gravel,

cobbles and occasional

boulders.

1.07

0.99

U1

23.16.7.

(41)

16.3

TAQ

24.1

SO<sub>s</sub>

0.01

2.13

to

3.05

to

2.59

B1

11.13.14.14

(52)

4.5

SO<sub>s</sub>

0.01

100

60

41

29

25

22

20

13

10

7

4.11

to

4.57

to

5.18

B2

75 for 0.280

total

5.8

SO<sub>s</sub>

4.12

pH7.5

5100

64

64

46

36

28

23

21

14

5

3

2

5.64

to

5.11

to

6.10

B2

12.13.17.20

(62)

4.5

SO<sub>s</sub>

4.12

pH7.5

5100

64

64

46

36

28

23

21

14

5

3

2

BOREHOLE

COMPLETED

OCB @ 6.100

CAS @ 5.490

SWL 4.570

VL 4.570

BH backfilled

as casing

withdrawn.

REMARKS:

\* CPl blow count 14.16.14.15. (59)

Sample Depth

M.C.

D.W.

C. B. R.

COMPACTION

Air

Voids

Type

TOP

BOTTOM

Value

B.S.

1377

No.

Max.

Dry

Density

Optm.

M.C.

DRILLING METHOD		PROJECT		Forest Farm Cardiff		SHEET 1 OF 6							
MACHINE		CORE BARREL AND BIT DESIGN		GROUND LEVEL		H.G. CO-ORDINATES							
DANDO 150				27.46		1347.8130							
				ORIENTATION		STBSW/169							
PROGRESS		WATER LEVEL		SAMPLE OR TEST		THICKNESS (M)		DEPTH TO BASE (M)		SECTION OF STRATA		REDUCE LEVEL M.O.D	
DRILLING CASING		Blow counts		TYPE DEPTH (M)									
				U GL									
				D 0.45		0.53		0.53				26.	
				U D 0.53		0.46		0.99				26.	
0.99		28		B I C 0.99		0.53		1.52				25.	
1.83		43		I C 1.83									
26/8.						1.08		2.60				24.	
BOREHOLE TERMINATED													

KEY TO FIELD TESTS / SAMPLES			
DISTURBED SAMPLE	● D	STANDARD PENETRATION TEST	1s
BULK SAMPLE	● B	CONE PENETRATION TEST	1c
UNDISTURBED SAMPLE	● U	FIELD VANE TEST	● V
GROUNDWATER SAMPLE	Δ W	PERMEABILITY TEST	Σ P
CORE SAMPLE	■	HFT WATER LEVEL	Σ W
		GROUNDWATER ENCOUNTERED	Σ E

REMARKS
Drilled with 200mm tools. No water encountered during boring.
Chisel used for 1 hour

DRILLING METHOD		Shell & Auger		PROJECT		B.N. 2A							
				Forest Farm Cardiff		SHEET 2 OF 6							
MACHINE		CORE BARREL AND BIT DESIGN		GROUND LEVEL		H.C. CO-ORDINATES		STANDARD BH CLASSIFICATION REFERENCE					
DANDO 150				27.46		1341 8130		ST18SW / 169					
				ORIENTATION									
PROGRESS		WATER LEVEL		SAMPLE OR TEST		THICKNESS (M)		DEPTH TO BASE (M)		SECTION OF STRATA		REDUCED LEVEL (M.I.D.)	
DRILLING		COUNTS		DEPTH (M)									
						Very soft brown clay TOPSOIL		0.60		0.60		26.	
				U 0.45									
				D 1.00		Soft to firm brown sandy CLAY							
				1.45				0.90		1.50		25.	
				1.50									
				D 2.00		Dense brown SAND				2.00		25.	
				3.00									
				D 3.00									
				Ic 3.00									
				B 4.00		Very dense small to medium GRAVEL and COBBLES with sand. Cobbles becoming more frequent with depth.							
				D 5.00									
				Ic 5.00									
				6.00									
				Ic 6.00									
				D 6.50				4.80		6.80		20.	
				Ic 6.50									
BOREHOLE TERMINATED													

# KEY TO FIELD TESTS / SAMPLES

DISTURBED SAMPLE ● D  
 BULK SAMPLE ● B  
 UNDISTURBED SAMPLE □ D  
 GROUNDWATER SAMPLE Δ W  
 CORE SAMPLE B

STANDARD PENETRATION TEST Is  
 CONE PENETRATION TEST Ic  
 FIELD VANE TEST cV  
 PERMEABILITY TEST pV  
 FIRST WATER LEVEL W  
 GROUNDWATER ENCOUNTERED E

REMARKS Borehole drilled with 150mm casing and tools  
 Standpipe installed to 3.5m  
 initial water level at 3.1m  
 Chisel used for 13 hours

Borehole Method		SHELL & AUGER		FOREST FARM CARDIFF		SHEET 3 OF 10	
MACHINE		CORE BARREL AND BIT DESIGN		GROUND LEVEL 28.40		N.G. CO-ORDINATES	
DANDO 150				ORIENTATION VERTICAL		1329 8120	
STANDARD BH CLASSIFICATION REFERENCE						ST185W/170	
PROGRESS		WATER LEVEL		SAMPLE OR TEST		THICKNESS (M)	
Borehole Casing		Blow counts		DEPTH (M)		DEPTH TO BASE (M)	
DESCRIPTION OF STRATA							
1.30	38	D	0.15	Soft brown clay TOPSOIL		0.31	0.31
2.20	43	D	0.31	Soft to firm brown sandy CLAY		0.45	0.76
3.00	31	D	0.76	Dense fine brown SAND with gravel		1.24	2.00
3.60	25	B	1.37			1.51	3.51
		Ic	2.00			0.61	4.12
		B	2.29	Dense GRAVEL with cobble and sand			
		Ic	2.74				
		B	3.05				
		Ic	3.51				
		B	3.66	Dense GRAVEL and COBBLES with sand			
BOREHOLE TERMINATED							

KEY TO FIELD TESTS / SAMPLES		STANDARD PENETRATION TEST		REMARKS	
DISTURBED SAMPLE	● D	CONC	Is	No water encountered	
BULK SAMPLE	● B	CONC	Ic	during boring. Borehole drill	
UNDISTURBED SAMPLE	□ U	CONC	Sp	with 200mm casing and tools	
GROUNDWATER SAMPLE	Δ W	CONC	W	chisel used for 2½ hours	
CORE SAMPLE	■	CONC	W		



DRILLING METHOD		SHELL & AUGER		PROJECT FOREST FARM CARDIFF		B.H. 28 SHEET 4 OF	
MACHINE		CORE BARREL AND BIT DESIGN		GROUND LEVEL 28.40		N.G. CO-ORDINATES	
DANDO 150				ORIENTATION VERTICAL		1329. 8120	
STANDARD BH CLASSIFICATION		ST18SW		170			
PROGRESS		SAMPLE OR TEST		DESCRIPTION OF STRATA		THICKNESS (M)	
DRILLING	CASING	water level	Blow counts	TYPE	DEPTH (M)		DEPTH TO BASE (M)
						soft brown clay TOPSOIL	0.30
						Dense fine Brown silty SAND	0.30
				D U	1.00		
				D I <sub>c</sub>	2.00		1.50
	2.00		33 for 150mm				1.80
	3.00		45 No pen	D I <sub>c</sub>	3.00	Very dense GRAVEL with sand layers and cobbles.	
				D	4.00		
	4.50		27	I <sub>c</sub>	4.50	Cobbles becoming larger with depth. Medium dense at 4.5m	
	5.00		33 for 225mm	D I <sub>c</sub>	5.00		
	6.00		30 for 75mm	D I <sub>c</sub>	6.00		
	7.00		37 no pen	D I <sub>c</sub>	7.00		
12/10.			50 for 75mm	D I <sub>c</sub>	8.10		
14/10.			25 no pen	D I <sub>c</sub>	9.00	Weak, weathered red MUDSTONE	7.65
	9.70		65 for 150mm	D I <sub>s</sub>	9.45	SILTSTONE and friable red silty CLAY	9.45
				D	10.00	BOREHOLE TERMINATED	0.55
KEY TO FIELD TESTS / SAMPLES				STANDARD PENETRATION TEST		REMARKS	
DISTURBED SAMPLE				CONE PENETRATION TEST		Drilled with 150mm too	
CULK SAMPLE				FIELD VANE TEST		chisel used for 20 ho	
UNDISTURBED SAMPLE				PERMEABILITY TEST			
GROUNDWATER SAMPLE				REST WATER LEVEL			
CORE SAMPLE				GROUNDWATER ENCOUNTERED			

KEY TO FIELD TESTS / SAMPLES		STANDARD PENETRATION TEST		REMARKS Standpipe install 6.75 initial water level at 4 Drilled with 200mm tools Chisel used for 5 hours
DISTURBED SAMPLE	● D	CONE PENETRATION TEST	1c	
BULK SAMPLE	● B	FIELD VANE TEST	2c	
UNDISTURBED SAMPLE	□ U	PERMEABILITY TEST	2V	
GROUNDEWATER SAMPLE	△ W	RFST WATER LEVEL	2P	
CORE SAMPLE	■	GROUNDEWATER ENCOUNTERED	2E	

DRILLING METHOD: SHELL & AUGER				PROJECT: FOREST FARM CARDIFF		SHEET 6 OF 6			
MACHINE: DANDO 150		CORE BARREL AND BIT DESIGN		GROUND LEVEL: 26.99		N.G. CO-ORDINATES: 1318 8108			
				ORIENTATION VERTICAL		STANDARD BH CLASSIFICATION REFERENCE: ST185W/172			
PROGRESS		WATER LEVEL Blow counts	SAMPLE OR TEST		DESCRIPTION OF STRATA	THICKNESS (M)	DEPTH TO BASE (M)	SECTION OF STRATA	REDUCED LEVEL M.I.C.
DRILLING	CASING		TYPE	DEPTH (M)					
					Soft brown clay TOPSOIL	0.30	0.30		26.
15/10.			NR <input type="checkbox"/> U ● D	0.80 1.00	Soft to firm brown sandy CLAY with gravel	0.70	1.00		25.
	2.00	73	● D Ic	2.00					
	3.00	59	● D Ic	3.00	Very dense sandy GRAVEL with cobbles and sand layers				
	4.00	67	● D Ic	4.00					
	4.70								
16/10.	5.00	48	● D Ic	5.00					
	for 225mm								
17/10.	6.50	64	● D Ic	6.50		5.50	6.50		20.
	For 225mm								
BOREHOLE TERMINATED									

KEY TO FIELD TESTS / SAMPLES		STANDARD PENETRATION TEST		REMARKS
DISTURBED SAMPLE	● n	CONE PENETRATION TEST	Ic	
BULK SAMPLE	● B	FIELD VANE TEST	CV	
UNDISTURBED SAMPLE	□ U	PERMEABILITY TEST	XP	
GROUNDWATER SAMPLE	Δ W	REST WATER LEVEL	Z	
CORE SAMPLE	■	GROUNDWATER ENCOUNTERED	±	

Drilled using 150mm tools Chisel used for 9 hours

Trial Pit 1

Depth (m)

Strata

G.L. - 0.2

Black TOPSOIL with roots.

0.2 - 1.0

Firm brown silty CLAY, roots down to 0.5m.

1.0 - 1.4

Very dense brown fine medium and coarse GRAVEL and COBBLES with occasional boulders up to 400mm in size, mainly flat rounded and elongated rounded; some clay down to 1.3 and sand from 1.3 to 1.4.

No groundwater encountered.

Trial Pit 2

G.L. - 0.2

Black TOPSOIL

0.2 - 0.8

Medium dense brown CLAY and silty SAND with occasional fine rounded gravel.

0.8 - 1.1

Firm brown silty CLAY with traces of sand and occasional fine medium and coarse rounded gravel.

1.1 - 1.4

Medium dense brown SAND with a little silty clay.

1.4 - 2.2

Very dense brown fine, medium and coarse rounded sandy GRAVEL and COBBLES with occasional boulders, mainly flat rounded and elongated rounded; some traces of clay.

No groundwater encountered.

Trial Pit 3

G.L. - 0.3

Black TOPSOIL with occasional roots.

0.3 - 0.6

Firm brown silty CLAY with fine medium coarse rounded GRAVEL with frequent roots. On the east side this deposit reaches a depth of 1.5, whereas on the south side it is absent.

0.6 - 0.9

Dense grey fine medium coarse rounded GRAVEL with traces of sand and clay.

0.9 - 2.0

Very dense brown fine, medium and coarse rounded sandy GRAVEL and COBBLES with occasional boulders, mainly flat rounded and elongated rounded; some traces of clay.

No groundwater encountered.

Total Pit 4Depth (m)

G.L. - 0.2

1.2 - 2.4

1.6 - 2.5

No groundwater encountered.

Total Pit 5

G.L. - 0.2

0.2 - 1.8

1.8 - 2.2

No groundwater encountered.

Total Pit 6

G.L. - 0.2

0.2 - 0.9

0.9 - 1.6

1.6 - 2.2

2.2 - 2.6

No groundwater encountered.

Strata

Black TOPSOIL

Medium dense brown silty SAND with traces of clay and occasional fine medium coarse rounded gravel below 1.75; frequent roots to 2.0.

Very dense brown fine medium coarse rounded sandy GRAVEL and COBBLES with occasional boulders, mainly flat rounded and elongated rounded; some traces of clay.

Black TOPSOIL

Medium dense brown silty SAND with traces of clay and some roots.

Very dense brown fine, medium and coarse rounded sandy GRAVEL and COBBLES with occasional boulders, mainly flat rounded and elongated rounded; some traces of clay.

Black TOPSOIL

Firm brown silty CLAY with traces of sand.

Medium dense brown fine silty SAND with some clay and traces of roots.

Medium dense brown coarse SAND with lenses of clay and some boulders.

Very dense brown fine, medium and coarse rounded sandy GRAVEL and COBBLES with occasional boulders, mainly flat rounded and elongated rounded; some traces of clay.

Total Pit 7Depth (m)Strata

G.L. - 0.3

Black TOPSOIL

0.3 - 0.9

Medium dense firm brown silty CLAY with some sand and roots.

0.9 - 1.7

Very dense brown fine, medium and coarse sandy GRAVEL; with some cobbles below 1.3.

No groundwater encountered.

Total Pit 8

G.L. - 0.2

Black TOPSOIL

0.2 - 0.5

Firm brown silty CLAY with traces of sand.

0.5 - 1.2

Medium dense brown silty SAND with traces of clay and some roots.

1.2 - 1.4

Medium dense brown coarse SAND and fine gravel.

1.4 - 1.8

Very dense brown fine, medium and coarse rounded sandy GRAVEL and COBBLES with occasional boulders, mainly flat rounded and elongated rounded; some traces of clay.

No groundwater encountered.

Total Pit 9

G.L. - 0.25

Black TOPSOIL

0.25 - 1.5

Medium dense brown fine silty SAND with traces of clay.

1.5 - 2.5

Medium dense fine medium SAND with occasional coarse gravel and cobbles.

No groundwater encountered.

Total Pit 10

G.L. - 0.3

Black TOPSOIL

0.3 - 1.0

Medium dense brown silty fine SAND with traces of clay and fine rounded gravel.

1.0 - 1.3

Dense brown fine rounded GRAVEL with some sand.

1.3 - 1.7

Very dense brown fine, medium and coarse rounded sandy GRAVEL and COBBLES with occasional boulders, mainly flat rounded and elongated rounded; some traces of clay.

No groundwater encountered.

Trial Pit 11Depth (m)

Q.L. - 0.3

0.3 - 0.6

0.6 - 1.4

1.4 - 1.7

1.7 - 2.0

Strata  
Black TOPSOIL

Firm brown silty CLAY with fine sand.

Medium dense brown silty fine SAND with traces of clay and fine rounded gravel, roots down to 1.2.

Dense brown fine to medium rounded GRAVEL with some sand.

Very dense brown fine medium coarse rounded sandy GRAVEL and COBBLES with occasional boulders, mainly flat rounded and elongated rounded; some traces of clay.

No groundwater encountered.

Trial Pit 12

Q.L. - 0.25

0.25 - 0.4

0.4 - 1.4

Strata  
Black TOPSOIL

Firm brown silty CLAY with fine, medium and coarse gravel.

Very dense brown fine, medium and coarse sandy GRAVEL with some fine cobbles.

No groundwater encountered.

# **APPENDIX III**

## **Zetica UXO Report**



# UNEXPLODED BOMB RISK MAP



## SITE LOCATION

Map Centre: 313230,181193



## LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.

- military**
- industry**
- UXO find**
- transport**
- dock**
- Luftwaffe targets**
- utilities**
- Bombing decoy**
- other**

### How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment\* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment\* is necessary.

### What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

**Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.**

### If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

### If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

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It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

\*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

# **APPENDIX IV**

## **Landmark Information Group – Envirocheck Report**



# Envirocheck<sup>®</sup> Report:

## Datasheet

### Order Details:

**Order Number:**

294881209\_1\_1

**Customer Reference:**

21-712

**National Grid Reference:**

313310, 181170

**Slice:**

A

**Site Area (Ha):**

12.33

**Search Buffer (m):**

1000

### Site Details:

Cardiff Edge Life Sciences Park  
Longwood Drive  
Whitchurch  
CARDIFF  
CF14 7YU

### Client Details:

Mr D McGrath  
Arc Environmental Ltd  
Unit 1  
Elliot Court  
St John's Road  
Meadowfield  
Durham  
DH7 8PN

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	41
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Geological	48
Industrial Land Use	56
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Data Currency	70
Data Suppliers	76
Useful Contacts	77

## Introduction

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

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## Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Agency &amp; Hydrological</b>					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		11	4	13
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices	pg 9	1			
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 10	2			
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 11			1	3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 12		Yes		
Pollution Incidents to Controlled Waters	pg 12		18	3	4
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 16	6			
River Quality	pg 17		1		1
River Quality Biology Sampling Points	pg 18				1
River Quality Chemistry Sampling Points	pg 19			1	
Substantiated Pollution Incident Register	pg 19			2	1
Water Abstractions	pg 20		3		1 (*29)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 28	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 28	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 28	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 28	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 28		Yes	n/a	n/a
Areas Benefiting from Flood Defences	pg 28		Yes	n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences	pg 28		Yes	n/a	n/a
OS Water Network Lines	pg 28		32	26	43

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Waste</b>					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 41			1	2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 41				16
Local Authority Landfill Coverage	pg 45	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 45				1
Potentially Infilled Land (Water)	pg 45		2	6	21
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
<b>Hazardous Substances</b>					
Control of Major Accident Hazards Sites (COMAH)	pg 47	1			
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Geological</b>					
BGS 1:625,000 Solid Geology	pg 48	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 48	Yes		Yes	Yes
BGS Recorded Mineral Sites	pg 49				2
BGS Urban Soil Chemistry	pg 49		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 53	Yes			
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities	pg 53				1
Non Coal Mining Areas of Great Britain	pg 53	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 53	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 53	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 54	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 54	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 54	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 55	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 55	Yes	n/a	n/a	n/a
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 56	3	2	9	33
Fuel Station Entries	pg 60			1	
Points of Interest - Commercial Services	pg 60	1	1	2	7
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 61	3	6		8
Points of Interest - Public Infrastructure	pg 62		2	9	5
Points of Interest - Recreational and Environmental	pg 63		2	2	13
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Sensitive Land Use</b>					
Ancient Woodland	pg 66		8	5	23
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 68	1	2		
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 68		1		2
Special Areas of Conservation	pg 69				1
Special Protection Areas					
World Heritage Sites					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	0	1	313300 181300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	0	1	313310 181300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	7	1	313150 181300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	63	1	313550 181350
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	84	1	313100 181300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	121	1	313310 181500
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	146	1	313100 181450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	151	1	313450 181500
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	155	1	313000 181250
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	178	1	313000 181300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	199	1	313450 181550
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	211	1	313000 181400
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	230	1	313000 181450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	258	1	312950 181400
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	268	1	313550 181600
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	270	1	313250 181650
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	275	1	312950 181450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	276	1	313200 181650
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	291	1	313050 181600
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	305	1	312900 181400
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (NW)	323	1	313000 181600
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	375	1	313200 181750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	384	1	313150 181750
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	399	1	313100 181750
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A17SE (NW)	409	1	312850 181550
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	420	1	313300 181800
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A17SE (NW)	431	1	312950 181700
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	433	1	313150 181800
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	437	1	312850 181600
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A19SW (NE)	462	1	313700 181750
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	470	1	313250 181850
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	474	1	313600 181800
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A19SW (NE)	487	1	313750 181750
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A17SE (NW)	498	1	312750 181550
1	<b>Discharge Consents</b> Operator: Ge Healthcare Property Type: Recreational & Cultural Location: Recreational Buildings Forest Farm, Forest Farm Ind.Est., Whitchurch, Cardiff, Cf14 7yt Authority: Natural Resources Wales Catchment Area: River Taff Reference: AG0014301 Permit Version: 1 Effective Date: 29th November 1982 Issued Date: 29th November 1982 Revocation Date: 30th May 2007 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Not Supplied Environment: Receiving Water: River Taff <b>Status: Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	52	2	313020 181010
2	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Not Supplied Location: Cardiff Whitchurch Forest Farm Indu, Whitchurch Forest Farm Industria, Forest Farm Industrial Estate Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Af4004701 Permit Version: 1 Effective Date: 12th July 1973 Issued Date: 12th July 1973 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Melingriffith Feeder <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	57	2	313160 181380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Not Supplied Location: Cardiff Whitchurch Forest Farm Indu, Whitchurch Forest Farm Industria, Forest Farm Industrial Estate Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: AF4004701 Permit Version: 1 Effective Date: 12th July 1973 Issued Date: 12th July 1973 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Melingriffith Feeder <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	57	2	313160 181380
3	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Water Treatment Works Location: Whitchurch Side Of Forrest Farm Roa, Side Of Forrest Farm Road Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Af3005001 Permit Version: 1 Effective Date: 1st March 1968 Issued Date: 1st March 1968 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Melingriffith Feeder <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	154	2	313640 181360
3	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Water Treatment Works Location: Whitchurch Side Of Forrest Farm Roa, Side Of Forrest Farm Road Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: AF3005001 Permit Version: 1 Effective Date: 1st March 1968 Issued Date: 1st March 1968 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Melingriffith Feeder <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	154	2	313640 181360
4	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: A Cso At Tongwynlais Recreation Grd, Tongwynlais Cso, Tongwynlais Recreation Ground, Tongwynlais, Cardiff Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0319201 Permit Version: 1 Effective Date: 24th April 2002 Issued Date: 24th April 2002 Revocation Date: 25th March 2008 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: The River Taff <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	A13NW (N)	169	2	313170 181530

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Tongwynlais Cso, Tongwynlais Recreational Ground, Iron Bridge Rd, Tongwynlais, Cardiff, Cf15 7nj Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0319201 Permit Version: 4 Effective Date: 10th May 2021 Issued Date: 10th May 2021 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge: Freshwater Stream/River Environment: Receiving Water: The River Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A13NW (N)	173	2	313174 181536
4	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Tongwynlais Cso, Tongwynlais Recreational Ground, Iron Bridge Rd, Tongwynlais, Cardiff, Cf15 7nj Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0319201 Permit Version: 4 Effective Date: 10th May 2021 Issued Date: 10th May 2021 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A13NW (N)	173	2	313174 181536
4	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: A Cso At Tongwynlais Recreation Grd, Tongwynlais Recreational Ground, Iron Bridge Rd, Tongwynlais, Cardiff, Cf15 7nj Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0319201 Permit Version: 3 Effective Date: 7th October 2019 Issued Date: 7th October 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A13NW (N)	173	2	313174 181536
4	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: A Cso At Tongwynlais Recreation Grd, Tongwynlais Cso, Tongwynlais Recreation Ground, Tongwynlais, Cardiff Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0319201 Permit Version: 2 Effective Date: 26th March 2008 Issued Date: 26th March 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A13NW (N)	173	2	313174 181536

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: A Cso At Tongwynlais Recreation Grd, Tongwynlais Cso, Tongwynlais Recreation Ground, Tongwynlais, Cardiff Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0319201 Permit Version: 2 Effective Date: 26th March 2008 Issued Date: 26th March 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The River Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A13NW (N)	173	2	313174 181536
5	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: General Construction Work Location: Housing And Hotel Tongwynlais, Cardiff Cbc, Wales Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0137501 Permit Version: 1 Effective Date: 21st June 1989 Issued Date: 21st June 1989 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 100m	A18SW (N)	325	2	313200 181700
5	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: General Construction Work Location: Housing And Hotel Tongwynlais, Cardiff Cbc, Wales Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: AN0137501 Permit Version: 1 Effective Date: 21st June 1989 Issued Date: 21st June 1989 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 100m	A18SW (N)	325	2	313200 181700
6	<b>Discharge Consents</b> Operator: British Telecom Plc (Wales) Property Type: Telecommunications Equipment Location: Bt Engineering Centre Forest Farm C, Forest Farm Coryton Cardiff Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0222501 Permit Version: 1 Effective Date: 25th January 1991 Issued Date: 25th January 1991 Revocation Date: 9th March 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Melingriffith Feeder <b>Status: Consent expired</b> Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	333	2	313600 180700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<b>Discharge Consents</b> Operator: Mr & Mrs M Brock Property Type: Domestic Property (Single) Location: Primrose Cottage Ty Nant Road, Morganstown, Cardiff, Cf4 8lj Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Ag0019001 Permit Version: 1 Effective Date: 14th March 1984 Issued Date: 14th March 1984 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge: Freshwater Stream/River Environment: Receiving Water: River Taff Trib <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	471	2	312795 181578
8	<b>Discharge Consents</b> Operator: Morgan C Property Type: Domestic Property (Single) Location: Aurora Ty Nant Rd Morganstown Cardi, Ty Nant Rd, Morganstown, Cardiff, Cf15 8lb Authority: Natural Resources Wales Catchment Area: River Taff Reference: An0000401 Permit Version: 1 Effective Date: 2nd October 1984 Issued Date: 2nd October 1984 Revocation Date: 31st October 1996 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of Taff River <b>Status: Lapsed (under Environment Act 1995, Schedule 23)</b> Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	537	2	312800 181700
9	<b>Discharge Consents</b> Operator: Short Bros(Plant)Limited Property Type: Not Supplied Location: Short Bros (Plant) Limited, Main Road, Morganstown, Taffs Well, Rhondda Cynon Taff, Cf15 9jn Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Af4021301 Permit Version: 2 Effective Date: 11th December 2012 Issued Date: 11th December 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Groundwater Via Infiltration System <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	569	2	312747 181683
9	<b>Discharge Consents</b> Operator: Short Bros (Plant) Ltd Property Type: Sewage Disposal Works - Other Location: Short Bros (Plant) Limited, Main Road, Morganstown, Taffs Well, Rhondda Cynon Taff, Cf15 9jn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Af4021301 Permit Version: 1 Effective Date: 9th February 1977 Issued Date: 9th February 1977 Revocation Date: 25th January 2013 Discharge Type: Unspecified Discharge: Into Land Environment: Receiving Water: Underground Strata <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b> Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	569	2	312747 181683

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	<b>Discharge Consents</b> Operator: Cardiff County Council Property Type: Not Supplied Location: Coryton Interchange Maintenance Com, Maintenance Compound (M4) Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Af4022001 Permit Version: 1 Effective Date: 4th May 1977 Issued Date: 4th May 1977 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge: Freshwater Stream/River Environment: Receiving Water: River Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A14SE (E)	617	2	314119 181184
11	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Tongwynlais - On River Bank Op, Tongwynlais, Cardiff, Cardiff Cbc Authority: Natural Resources Wales Catchment Area: River Taff Reference: AE2017702 Permit Version: 1 Effective Date: 7th November 1963 Issued Date: 7th November 1963 Revocation Date: 25th March 2014 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Taff <b>Status: Surrendered under EPR 2010</b> Positional Accuracy: Located by supplier to within 100m	A18NW (N)	639	2	313100 182000
12	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Not Supplied Location: Cardiff Whitchurch Development Off, Off Ty Mawr Road, Whitchurch, Cardiff Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: An0022601 Permit Version: 1 Effective Date: 19th February 1987 Issued Date: 19th February 1987 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A14SE (E)	657	2	314160 180880
12	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Not Supplied Location: Cardiff Whitchurch Development Off, Off Ty Mawr Road, Whitchurch, Cardiff Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: AN0022601 Permit Version: 1 Effective Date: 19th February 1987 Issued Date: 19th February 1987 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 100m	A14SE (E)	657	2	314160 180880



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	<b>Discharge Consents</b> Operator: Gkn Sankey Ltd Property Type: Undefined Or Other Location: Cardiff - Gkn Sankey Whitchurch Authority: Natural Resources Wales Catchment Area: River Taff Reference: Ae2020801 Permit Version: 1 Effective Date: 1st February 1964 Issued Date: 1st February 1964 Revocation Date: 9th February 1994 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Taff River <b>Status: Consent expired</b> Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	746	2	314140 180610
14	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Domestic Property (Multiple) Location: Residential Development Hazelwood, Hazelwood (Phase 3), Morganstown, Cardiff, Cf15 8ey Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0359101 Permit Version: 1 Effective Date: 15th September 2005 Issued Date: 15th September 2005 Revocation Date: 12th May 2011 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of River Taff <b>Status: Surrendered under EPR 2010</b> Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	927	2	312372 181753
15	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Ynys Bridge Cso, Tongwynlais, Tongwynlais, Cardiff, Cf15 7nt Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Ab3590fb Permit Version: 1 Effective Date: 2nd August 2017 Issued Date: 2nd August 2017 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Afon Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A22SE (N)	987	2	312945 182318
15	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Ynys Bridge Cso, Tongwynlais, Tongwynlais, Cardiff, Cf15 7nt Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Ab3590fb Permit Version: 1 Effective Date: 2nd August 2017 Issued Date: 2nd August 2017 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Afon Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A22SE (N)	987	2	312945 182318



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Ynys Bridge Cso, Tongwynlais, Cardiff, Cf15 7nt Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Ab3590fb Permit Version: 2 Effective Date: 17th December 2021 Issued Date: 17th December 2021 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Afon Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A22SE (N)	989	2	312938 182318
15	<b>Discharge Consents</b> Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Ynys Bridge Cso, Tongwynlais, Cardiff, Cf15 7nt Authority: Natural Resources Wales Catchment Area: TAFF - CONF RHONDDA R TO CASTLE STREET Reference: Ab3590fb Permit Version: 2 Effective Date: 17th December 2021 Issued Date: 17th December 2021 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Afon Taff <b>Status: Effective</b> Positional Accuracy: Located by supplier to within 10m	A22SE (N)	989	2	312938 182318
16	<b>Enforcement and Prohibition Notices</b> Location: Maynard Centre Site, Forest Farm, Whitchurch, Cardiff, Cf14 7yt Permit Reference: Not Given Enforcement Date: Not Supplied Details: Required To Investigate Ground Contamination As The Result Of A Faulty Pipeline Positional Accuracy: Manually positioned to the address or location	A13NW (N)	0	4	313288 181262

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	<b>Integrated Pollution Prevention And Control</b> Name: Ge Healthcare Limited Location: Cardiff Laboratories, Forest Farm Road, Whitchurch, Cardiff, CF14 7YT Authority: Natural Resources Wales Permit Reference: ZP3435UQ Original Permit Ref: Bu4066ir Effective Date: 19th March 2007 <b>Status: Surrender Effective</b> Application Type: Surrender App. Sub Type: Whole Positional Accuracy: Automatically positioned to the address Activity Code: 4.1 A(1) (A) (II) Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols Primary Activity: N Activity Code: 4.1 A(1) (A) (I) Activity Description: Organic Chemicals; Hydrocarbons Eg Aromatics Primary Activity: N Activity Code: 4.1 A(1) (A) (VI) Activity Description: Organic Chemicals; Halogen Containing Compounds Eg Halocarbons Primary Activity: N Activity Code: 4.1 A(1) (A) (V) Activity Description: Organic Chemicals; Phosphorus Containing Compounds Eg Substituted Phosphines Primary Activity: N Activity Code: 4.1 A(1) (A) (IX) Activity Description: Organic Chemicals; Synthetic Rubbers Primary Activity: N Activity Code: 4.1 A(1) (A) (III) Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides Primary Activity: N Activity Code: 4.1 A(1) (A) (VIII) Activity Description: Organic Chemicals; Plastic Materials Eg Polymers Primary Activity: N Activity Code: 4.2 A(1) (A) (II) Activity Description: Inorganic Chemicals; Acids Eg Chromic Acid Primary Activity: N Activity Code: 4.1 A(1) (A) (VII) Activity Description: Organic Chemicals; Organometallic Compounds Eg Lead Alkyls Primary Activity: N Activity Code: 4.1 A(1) (B) Activity Description: Organic Chemicals; Any Other Organic Compounds (Not Described 4.1 A(1)(A) Primary Activity: N Activity Code: 4.2 A(1) (A) (I) Activity Description: Inorganic Chemicals; Gases Eg Ammonia, Primary Activity: Y Activity Code: 4.1 A(1) (A) (XI) Activity Description: Organic Chemicals; Surface-Active Agents Primary Activity: N Activity Code: 4.1 A(1) (A) (X) Activity Description: Organic Chemicals; Dyes And Pigments Primary Activity: N Activity Code: 4.1 A(1) (A) (IV) Activity Description: Organic Chemicals; Nitrogen Containing Compounds Eg Amines Primary Activity: N	A13NE (N)	0	2	313312 181221

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	<b>Integrated Pollution Prevention And Control</b> Name: Ge Healthcare Limited Location: Cardiff Chemical Manufacturing, The Maynard Centre, Forest Farm Industrial Estate, Whitchurch, Cardiff, CF14 7YT Authority: Natural Resources Wales Permit Reference: Bu4066ir Original Permit Ref: Bu4066ir Effective Date: 8th August 2003 <b>Status: Superseded By Variation</b> Application Type: Application App. Sub Type: New Positional Accuracy: Manually positioned to the address or location Activity Code: 4.2 A(1) (A) (I) Activity Description: Inorganic Chemicals; Gases Eg Ammonia, Primary Activity: N Activity Code: 4.1 A(1) (A) (XI) Activity Description: Organic Chemicals; Surface-Active Agents Primary Activity: N Activity Code: 4.1 A(1) (A) (X) Activity Description: Organic Chemicals; Dyes And Pigments Primary Activity: N Activity Code: 4.1 A(1) (A) (VIII) Activity Description: Organic Chemicals; Plastic Materials Eg Polymers Primary Activity: N Activity Code: 4.1 A(1) (A) (VII) Activity Description: Organic Chemicals; Organometallic Compounds Eg Lead Alkyls Primary Activity: N Activity Code: 4.1 A(1) (A) (VI) Activity Description: Organic Chemicals; Halogen Containing Compounds Eg Halocarbons Primary Activity: N Activity Code: 4.1 A(1) (A) (V) Activity Description: Organic Chemicals; Phosphorus Containing Compounds Eg Substituted Phosphines Primary Activity: N Activity Code: 4.1 A(1) (B) Activity Description: Organic Chemicals; Any Other Organic Compounds (Not Described 4.1 A(1)(A) Primary Activity: N Activity Code: 4.1 A(1) (A) (III) Activity Description: Organic Chemicals; Sulphur Containing Compounds Eg Sulphides Primary Activity: N Activity Code: 4.1 A(1) (A) (II) Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols Primary Activity: N Activity Code: 4.1 A(1) (A) (I) Activity Description: Organic Chemicals; Hydrocarbons Eg Aromatics Primary Activity: N Activity Code: 4.1 A(1) (A) (IV) Activity Description: Organic Chemicals; Nitrogen Containing Compounds Eg Amines Primary Activity: Y Activity Code: 4.1 A(1) (A) (IX) Activity Description: Organic Chemicals; Synthetic Rubbers Primary Activity: N	A13NE (N)	0	2	313320 181216
18	<b>Local Authority Pollution Prevention and Controls</b> Name: Asda Stores LtdCoryton Service Station Location: Longwood Drive, Coryton, CARDIFF, South Glamorgan, CF14 7EW Authority: Cardiff Council, Pollution Control Division Permit Reference: Ppc/89/1.4 Dated: 31st December 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station <b>Status: Permitted</b> Positional Accuracy: Automatically positioned to the address	A14NW (E)	446	3	313939 181335
19	<b>Local Authority Pollution Prevention and Controls</b> Name: Radyr Garage Location: Radyr Workshops, Station Road, Radyr Train Station, Cardiff, Cf15 8aa Authority: Cardiff Council, Pollution Control Division Permit Reference: EPR157/1.1 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input <b>Status: Permitted</b> Positional Accuracy: Manually positioned to the address or location	A8SE (S)	554	3	313385 180468

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	<b>Local Authority Pollution Prevention and Controls</b> Name: Alloy Wheel International Ltd Location: Eurocast Trading Estate, Forest Farm Road, Melingriffith, CARDIFF, South Glamorgan, CF14 7JH Authority: Cardiff Council, Pollution Control Division Permit Reference: Epa90/43/6.5 Dated: 22nd February 1994 Process Type: Local Authority Air Pollution Control Description: PG6/23 Coating of metal and plastic <b>Status: Authorisation revoked</b> Positional Accuracy: Manually positioned within the geographical locality	A9SE (SE)	899	3	314250 180500
20	<b>Local Authority Pollution Prevention and Controls</b> Name: Alloy Wheel International Ltd Location: Eurocast Trading Estate, Forest Farm Road, Melingriffith, CARDIFF, South Glamorgan, CF14 7JH Authority: Cardiff Council, Pollution Control Division Permit Reference: Epa90/21/2.2 Dated: 30th April 1993 Process Type: Local Authority Air Pollution Control Description: PG2/6 Aluminium and aluminium alloy processes <b>Status: Authorisation revoked</b> Positional Accuracy: Manually positioned within the geographical locality	A9SE (SE)	899	3	314250 180500
	<b>Nearest Surface Water Feature</b>	A13NW (W)	37	-	313122 181227
21	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Below Radyr Weir, RADYR Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 10th August 1995 Incident Reference: 25723 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	A13SW (SW)	74	4	313000 181000
22	<b>Pollution Incidents to Controlled Waters</b> Property Type: Road (Lost Load) Location: Asda, CORYTON Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Accidental Spillage/Leakage Incident Date: 13th February 1992 Incident Reference: 3286 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	105	4	313600 181295
22	<b>Pollution Incidents to Controlled Waters</b> Property Type: Road (Lost Load) Location: Asda, CORYTON Authority: Environment Agency, Welsh Region Pollutant: Cement/Mortar Note: Accidental Spillage/Leakage Incident Date: 13th February 1992 Incident Reference: 3286 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	A13NE (NE)	106	4	313600 181300
23	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Melyn Griffith Feeder, Whitchurch, Adjacent Forest Farm Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Melingriffith Feeder Incident Date: 22nd May 1998 Incident Reference: 35695 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	A8NE (S)	222	4	313400 180800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Bailes Farm, Quinten Hazel, Under Footbridge Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Blocked Sewer Incident Date: 2nd April 1996 Incident Reference: 28016 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	222	4	313200 181595
24	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Storm Overflow Location: Bailes Farm, Under Footbridge, RADYR Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Blocked Sewer Incident Date: 2nd April 1996 Incident Reference: 28016 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	227	4	313200 181600
25	<b>Pollution Incidents to Controlled Waters</b> Property Type: Process Location: RADYR Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Mechanical Failure Incident Date: 10th March 1996 Incident Reference: 27620 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	226	4	313055 180805
25	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Castell Coch, Down To Radyr Weir Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 2nd February 1996 Incident Reference: 27261 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)	226	4	313100 180800
25	<b>Pollution Incidents to Controlled Waters</b> Property Type: Process Location: RADYR Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Mechanical Failure Incident Date: 10th March 1996 Incident Reference: 27620 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	230	4	313055 180800
25	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Bridge Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Inorganic Note: Not Supplied Incident Date: 22nd June 1995 Incident Reference: 24444 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	A8NW (SW)	231	4	313105 180795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	<b>Pollution Incidents to Controlled Waters</b> Property Type: Land Location: 150 Metres Up Stream, Of Radyr Weir, RADYR Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 2nd September 1991 Incident Reference: 1391 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	231	4	313050 180800
25	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Radyr Weir, RADYR Authority: Environment Agency, Welsh Region Pollutant: Rubble/Litter Or Solids Note: Not Supplied Incident Date: 13th June 1991 Incident Reference: 1494 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	A8NW (SW)	231	4	313100 180795
25	<b>Pollution Incidents to Controlled Waters</b> Property Type: Process Location: LLANDAFF Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Mechanical Failure Incident Date: 10th March 1996 Incident Reference: 27620 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	235	4	313055 180795
26	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: LLANDAFF Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Mechanical/Electrical Plant Failure Incident Date: 10th March 1996 Incident Reference: 27620 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	227	4	313045 180805
26	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: RADYR Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Mechanical/Electrical Plant Failure Incident Date: 10th March 1996 Incident Reference: 27620 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	232	4	313045 180800
26	<b>Pollution Incidents to Controlled Waters</b> Property Type: Process Location: Below Llandaff Weir, LLANDAFF Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Mechanical Failure Incident Date: 10th March 1996 Incident Reference: 27620 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	236	4	313050 180795



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Below Llandaff Weir, LLANDAFF Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Mechanical/Electrical Plant Failure Incident Date: 10th March 1996 Incident Reference: 27620 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	241	4	313050 180790
26	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: RADYR Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Mechanical/Electrical Plant Failure Incident Date: 10th March 1996 Incident Reference: 27620 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	242	4	313045 180790
27	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Below Radyr Weir, RADYR Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Natural Causes Incident Date: 1st August 1995 Incident Reference: 25301 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	326	4	313100 180700
28	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Treated Water Distribution System Location: Bridge Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Silage Liquor Note: Deliberate Act Incident Date: 10th December 1991 Incident Reference: 1286 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	353	4	313100 181700
29	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Storm Overflow Location: 1/2 Mile Up Stream Of Weir, RADYR Authority: Environment Agency, Welsh Region Pollutant: Road Run-Off Note: Weather Incident Date: 14th July 1995 Incident Reference: 24870 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	424	4	313200 181800
30	<b>Pollution Incidents to Controlled Waters</b> Property Type: Private Sewage (Non-PLC): Other Location: Approx 200, Yards Up Stream Of Weir, RADYR Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Detergents/Surfactant Note: Not Supplied Incident Date: 11th September 1991 Incident Reference: 647 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	A8SE (S)	522	4	313500 180500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Melingriffith, NEW HOUSES Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 14th May 1991 Incident Reference: 404 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	A9SE (SE)	923	4	314150 180350
32	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Confluence, With Melin Griffith Feeder Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Natural Causes Incident Date: 11th April 1995 Incident Reference: 23267 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	940	4	314300 180500
33	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Opposite Alloy, WHITCHURCH Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Poor Operational Practise Incident Date: 9th March 1995 Incident Reference: 22788 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	994	4	314200 180300
34	<b>Registered Radioactive Substances</b> Name: Ge Healthcare Ltd Location: The Maynard Centre, Forest Farm Industrial Estate, Whitchurch, CARDIFF, CF14 7YT Authority: Environment Agency, Welsh Region Permit Reference: Bz7593 Dated: 2nd November 2005 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to an authorisation under RSA on a site subject to licensing under s1 of the Nuclear Installations Act 1967 <b>Status:</b> Application has been authorised and any conditions apply to the operator Positional Accuracy: Manually positioned to the address or location	A13NE (N)	0	4	313311 181221
34	<b>Registered Radioactive Substances</b> Name: Ge Healthcare Ltd Location: Cardiff Laboratories, Forest Farm Industrial Estate, Whitchurch, Cardiff, South Glamorgan, CF14 7YT Authority: Natural Resources Wales Permit Reference: Bk3328 Dated: 18th March 2004 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Site subject to licensing under S1 of Nuclear Installations Act 1965- Reprocessing Plants, Power Stations or other significant nuclear installations <b>Status:</b> Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A13NE (N)	0	2	313312 181221
34	<b>Registered Radioactive Substances</b> Name: Ortho Clinical Diagnostics Ltd Location: Cardiff Laboratories, Forest Farm Estate, Whitchurch, Cardiff, Cf4 7yt Authority: Natural Resources Wales Permit Reference: AS8384 Dated: 18th March 1999 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation <b>Status:</b> Authorisation either revoked or cancelled Positional Accuracy: Manually positioned to the address or location	A13NE (N)	0	2	313313 181221

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	<b>Registered Radioactive Substances</b> Name: Ge Healthcare Ltd Location: The Maynard Centre, Cardiff Laboratories, Forest Farm Industrial Estate, CARDIFF, South Glamorgan, CF14 2BH Authority: Natural Resources Wales Permit Reference: AB6047 Dated: 18th November 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Site subject to licensing under S1 of Nuclear Installations Act 1965- Reprocessing Plants, Power Stations or other significant nuclear installations <b>Status:</b> <b>Authorisation either revoked or cancelled</b> Positional Accuracy: Manually positioned to the address or location	A13NE (N)	0	2	313312 181221
34	<b>Registered Radioactive Substances</b> Name: Ge Healthcare Ltd Location: The Maynard Centre, Cardiff Laboratories, Forest Farm Industrial Estate, CARDIFF, South Glamorgan, CF14 2BH Authority: Natural Resources Wales Permit Reference: AB1363 Dated: 30th August 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Site subject to licensing under S1 of Nuclear Installations Act 1965- Reprocessing Plants, Power Stations or other significant nuclear installations <b>Status:</b> <b>Authorisation either revoked or cancelled</b> Positional Accuracy: Manually positioned to the address or location	A13NE (N)	0	2	313312 181221
34	<b>Registered Radioactive Substances</b> Name: Ge Healthcare Ltd Location: The Maynard Centre, Forest Farm Industrial Estate, Whitchurch, CARDIFF, CF14 7YT Authority: Environment Agency, Welsh Region Permit Reference: Bz9910 Dated: Not Supplied Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to an authorisation under RSA on a site subject to licensing under s1 of the Nuclear Installations Act 1967 <b>Status:</b> <b>Application has met the requirements for authorisation (but not yet authorised)</b> Positional Accuracy: Manually positioned to the address or location	A13NE (N)	0	4	313311 181221
	<b>River Quality</b> Name: Taff GQA Grade: River Quality B Reach: Conf.M.G.F.-Conf.Nant Y Fforest Goch Estimated Distance (km): 2.7 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A13NW (W)	44	4	313092 181250
	<b>River Quality</b> Name: Taff GQA Grade: River Quality B Reach: Conf.Nantyfforest Goch-Tonteg Bk. Estimated Distance (km): 5.6 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A18NW (N)	741	4	313088 182101

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	<b>River Quality Biology Sampling Points</b> Name: Taff Reach: Confluence M. G. F. To Confluence Nant Y Fforest Goch Estimated Distance: 2.70 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 C - Fairly Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2003 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2004 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2005 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2006 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2007 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2008 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2009 GQA Grade: River Quality Biology GQA Grade D - Fair	A18NW (N)	639	4	313100 182000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	<b>River Quality Chemistry Sampling Points</b> Name: Taff Reach: Confluence M.G.F. To Confluence Nant Y Fforest Goch Estimated Distance: 2.70 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade C - Fairly 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 B - 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 A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A18SW (N)	257	4	313155 181618
37	<b>Substantiated Pollution Incident Register</b> Authority: Natural Resources Wales Incident Date: 17th March 2004 Incident Reference: 223689 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Household Waste	A8NW (SW)	257	2	313090 180770
38	<b>Substantiated Pollution Incident Register</b> Authority: Natural Resources Wales Incident Date: 1st February 2019 Incident Reference: 1900679 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Oils And Fuel: Gas And Fuel Oils	A9NW (SE)	448	2	313727 180626

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	<b>Substantiated Pollution Incident Register</b> Authority: Natural Resources Wales Incident Date: 8th April 2007 Incident Reference: 483479 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified	A9NE (SE)	649	2	314086 180708
40	<b>Water Abstractions</b> Operator: Cardiff Council Licence Number: Wa/057/0025/005 Permit Version: 1 Location: Radyr Weir Authority: Natural Resources Wales Abstraction: Production Of Energy: Hydroelectric Power Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 7th February 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	209	2	313076 180819
40	<b>Water Abstractions</b> Operator: Cardiff Council Licence Number: Wa/057/0025/005 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Production Of Energy: Hydroelectric Power Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	209	2	313076 180819
40	<b>Water Abstractions</b> Operator: Cardiff Council Licence Number: Wa/057/0025/009 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Electricity: Hydro-electric Power Generation - Very Low Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	236	2	313094 180791
41	<b>Water Abstractions</b> Operator: Alloy Wheels International Limited Licence Number: 21/57/25/0056 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Metal: Non-Evaporative Cooling Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 1409 Yearly Rate (m3): 272760 Details: Not Supplied 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	A9NE (SE)	843	4	314210 180540



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Radyr Golf Club Licence Number: 21/57/25/0080 Permit Version: Not Supplied Location: Radyr Golf Club, Radyr Golf Club, Drysgol Road, Radyr, Cardiff, Cardiff, Cf15 8bs Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	1009	2	312383 180291
	<b>Water Abstractions</b> Operator: Radyr Golf Club Licence Number: 21/57/25/0080 Permit Version: 1 Location: Underground Strata Llanishen Conglomerate Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	1160	2	312230 180230
	<b>Water Abstractions</b> Operator: Mr W Povey Licence Number: 21/57/25/0041 Permit Version: 100 Location: Well At Tygwyn Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SE (SW)	1331	4	312620 179780
	<b>Water Abstractions</b> Operator: Whitchurch (Cardiff) Golf Club Licence Number: 21/57/25/0066 Permit Version: 100 Location: Borehole At Whitchurch Golf Club Authority: Natural Resources Wales Abstraction: Golf Courses: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th May 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NE (E)	1376	2	314870 181380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Whitchurch (Cardiff) Golf Club Licence Number: 21/57/25/0066 Permit Version: 100 Location: Borehole At Whitchurch Golf Club Authority: Natural Resources Wales Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th May 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NE (E)	1376	2	314870 181375
	<b>Water Abstractions</b> Operator: Whitchurch (Cardiff) Golf Club Licence Number: 21/57/25/0066 Permit Version: Not Supplied Location: Whitchurch Golf Club, Whitchurch Golf Club, Pantmawr Road, Cardiff, Cardiff, Cf14 7td Authority: Natural Resources Wales Abstraction: Golf Courses: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1379	2	314873 181384
	<b>Water Abstractions</b> Operator: Whitchurch (Cardiff) Golf Club Licence Number: 21/57/25/0066 Permit Version: Not Supplied Location: Whitchurch Golf Club, Whitchurch Golf Club, Pantmawr Road, Cardiff, Cardiff, Cf14 7td Authority: Natural Resources Wales Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied 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 10m	A15NE (E)	1379	2	314873 181384
	<b>Water Abstractions</b> Operator: Whitchurch (Cardiff) Golf Club Licence Number: 21/57/25/0066 Permit Version: 100 Location: Borehole At Whitchurch Golf Club Authority: Natural Resources Wales Abstraction: Golf Courses: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th May 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NE (E)	1381	2	314875 181375

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Hope Construction Materials Limited Licence Number: 21/57/25/0046 Permit Version: 104 Location: Nant-Y-Fforest Authority: Natural Resources Wales Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Cefngarw Quarry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th December 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1486	2	313580 182840
	<b>Water Abstractions</b> Operator: Hope Ready Mixed Concrete Limited Licence Number: 21/57/25/0046 Permit Version: 103 Location: Nant-Y-Fforest Authority: Natural Resources Wales Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Cefngarw Quarry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1486	2	313580 182840
	<b>Water Abstractions</b> Operator: Tarmac Limited Licence Number: 21/57/25/0046 Permit Version: 102 Location: Nant-Y-Fforest Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Cefngarw Quarry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1486	4	313580 182840
	<b>Water Abstractions</b> Operator: Tarmac Heavy Building Materials UK Ltd Licence Number: 21/57/25/0046 Permit Version: 101 Location: Nant-Y-Fforest Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Cefngarw Quarry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th November 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1486	4	313580 182840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Breedon Southern Limited Licence Number: 21/57/25/0046 Permit Version: Not Supplied Location: Cefn Garw Quarry, Forest Road, Tongwynlais, Cardiff, Cf15 7yz Authority: Natural Resources Wales Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1500	2	313569 182856
	<b>Water Abstractions</b> Operator: Rmc Materials Limited Licence Number: 21/57/25/0047 Permit Version: 101 Location: Disused Mineworkings At Taffs Well Quarry Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater 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 June 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1688	4	311845 182345
	<b>Water Abstractions</b> Operator: Rmc Materials Limited Licence Number: 21/57/25/0047 Permit Version: 101 Location: Disused Mineworkings At Taffs Well Quarry Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Disused Mineworkings Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th June 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A21SW (NW)	1692	4	311840 182345
	<b>Water Abstractions</b> Operator: Cemex Uk Materials Ltd Licence Number: 21/57/25/0047 Permit Version: 102 Location: Disused Mineworkings At Taffs Well Quarry Authority: Natural Resources Wales Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th December 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1695	2	311840 182350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Cemex Uk Materials Ltd Licence Number: 21/57/25/0047 Permit Version: 102 Location: Disused Mineworkings At Taffs Well Quarry Authority: Natural Resources Wales Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Area Of Land At Taffs Well Quarry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th December 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1695	2	311840 182350
	<b>Water Abstractions</b> Operator: Cemex Uk Materials Ltd Licence Number: 21/57/25/0047 Permit Version: 102 Location: Disused Mineworkings At Taffs Well Quarry Authority: Natural Resources Wales Abstraction: Mineral Products: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th December 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1695	2	311840 182350
	<b>Water Abstractions</b> Operator: Rmc Materials Limited Licence Number: 21/57/25/0047 Permit Version: 101 Location: Disused Mineworkings At Taffs Well Quarry Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Disused Mineworkings Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th June 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A21SW (NW)	1695	4	311840 182350
	<b>Water Abstractions</b> Operator: Cemex Uk Materials Ltd Licence Number: 21/57/25/0047 Permit Version: Not Supplied Location: Abstraction From Old Mine Workings At Taffs Well Quarry Authority: Natural Resources Wales Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1695	2	311840 182350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Cemex Uk Materials Ltd Licence Number: 21/57/25/0047 Permit Version: Not Supplied Location: Abstraction From Old Mine Workings At Taffs Well Quarry Authority: Natural Resources Wales Abstraction: Mineral Products: General Use (Low Loss) Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1695	2	311840 182350
	<b>Water Abstractions</b> Operator: Cemex Uk Materials Ltd Licence Number: 21/57/25/0047 Permit Version: Not Supplied Location: Abstraction From Old Mine Workings At Taffs Well Quarry Authority: Natural Resources Wales Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1695	2	311840 182350
	<b>Water Abstractions</b> Operator: Tarmac Aggregates Limited Licence Number: 21/57/25/0075 Permit Version: 103 Location: Borehole At Taffs Well Authority: Natural Resources Wales Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 16th November 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1721	2	312480 182920
	<b>Water Abstractions</b> Operator: Lafarge Aggregates Limited Licence Number: 21/57/25/0075 Permit Version: 102 Location: Borehole At Taffs Well Authority: Natural Resources Wales Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 12 July Permit Start Date: 24th May 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1721	2	312480 182920



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Lafarge Aggregates Limited Licence Number: 21/57/25/0075 Permit Version: 101 Location: Borehole At Taffs Well Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th May 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1721	4	312480 182920
	<b>Water Abstractions</b> Operator: Minimix Ltd Licence Number: 21/57/25/0075 Permit Version: 100 Location: Borehole At Taffs Well Authority: Environment Agency, Welsh Region Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: River Gravels - 28M Depth; Well And Borehole Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th June 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NW)	1721	4	312480 182920
	<b>Water Abstractions</b> Operator: Tarmac Aggregates Ltd Licence Number: 21/57/25/0075 Permit Version: Not Supplied Location: Borehole At Taffs Well Authority: Natural Resources Wales Abstraction: Mineral Products: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1721	2	312480 182920
	<b>Water Abstractions</b> Operator: South Wales Forgemasters Ltd Licence Number: 21/57/25/0023 Permit Version: 100 Location: Borehole At Garth Works Authority: Natural Resources Wales Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1961	2	312600 183230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: South Wales Forgemasters Ltd Licence Number: 21/57/25/0023 Permit Version: Not Supplied Location: Abstraction From Borehole At Garth Works Authority: Natural Resources Wales Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1961	2	312600 183230
	<b>Groundwater Vulnerability Map</b> Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: High	A13SE (SE)	0	2	313310 181167
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A13SE (SE)	0	2	313310 181167
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A13SE (SE)	0	2	313310 181167
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	0	2	313233 181081
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A18SW (N)	229	2	313204 181603
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	22	2	313133 181236
	<b>Areas Benefiting from Flood Defences</b> Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13SW (SW)	61	2	313048 180976
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> Type: Flood Defences Reference: Not Supplied	A13NW (W)	20	2	313130 181203
	<b>Flood Defences</b> Type: Flood Defences Reference: Not Supplied	A8NW (S)	141	2	313203 180830
42	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 398.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NW (W)	61	5	313094 181229

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 305.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NW (W)	61	5	313106 181251
44	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 59.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NW (W)	64	5	313094 181229
45	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 230.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NW (W)	120	5	313045 181258
46	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 373.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (E)	123	5	313649 181108
47	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 31.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NW (NW)	140	5	313103 181443
48	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 27.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	142	5	313634 181313
49	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 4.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	153	5	313641 181346
50	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 26.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	153	5	313645 181319
51	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 55.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	154	5	313641 181350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 249.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	154	5	313641 181350
53	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 419.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NW (N)	156	5	313259 181538
54	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 62.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	163	5	313637 181406
55	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 46.1 Watercourse Level: Underground Permanent: True Watercourse Name: Melingruffydd Feeder Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NW (SW)	168	5	313063 180861
56	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 20.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Melingruffydd Feeder Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NW (SW)	169	5	313081 180851
57	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 642.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NW (NW)	173	5	313149 181524
58	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 41.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	173	5	313683 180968
59	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 12.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A14SW (SE)	173	5	313683 180968
60	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NW (SW)	176	5	313081 180851

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 441.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Melingruffydd Feeder Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NW (S)	176	5	313211 180817
62	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 33.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	181	5	313018 180860
63	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 55.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A14SW (SE)	182	5	313689 180958
64	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 11.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NW (SW)	183	5	313071 180845
65	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 30.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NW (SW)	186	5	313060 180844
66	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 132.7 Watercourse Level: Underground Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NE (NE)	189	5	313627 181467
67	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 51.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	206	5	313033 180830
68	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	213	5	313721 180958
69	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 27.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	216	5	313724 180956

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	237	5	313738 180932
71	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 80.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	237	5	313737 180931
72	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 98.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NW (SW)	245	5	313057 180785
73	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 65.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	245	5	313057 180785
74	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 45.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A13NW (NW)	260	5	312959 181430
75	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 957.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Melingruffydd Feeder Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NE (SE)	266	5	313521 180754
76	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 138.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18SE (NE)	267	5	313579 181591
77	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Melingruffydd Feeder Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A8NE (SE)	268	5	313509 180754
78	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 28.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	289	5	313101 180737



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 8.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12NE (NW)	296	5	312915 181415
80	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 96.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12NE (NW)	301	5	312913 181423
81	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 22.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	311	5	313118 180715
82	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	311	5	313118 180715
83	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 483.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (S)	315	5	313122 180710
84	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 21.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (S)	315	5	313122 180710
85	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 50.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	317	5	313815 180913
86	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 325.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14SW (SE)	318	5	313814 180906
87	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 13.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	325	5	313101 180701

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8NW (SW)	331	5	313106 180695
89	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 45.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A12NE (NW)	335	5	312920 181522
90	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12NE (NW)	367	5	312878 181513
91	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 58.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A12NE (NW)	374	5	312874 181521
92	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A12NE (NW)	374	5	312875 181522
93	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 68.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	393	5	313855 181479
94	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 23.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	421	5	312853 181576
95	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 94.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	440	5	312845 181598
96	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 13.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	440	5	312845 181598

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 39.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	448	5	312813 181570
98	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	451	5	313894 181535
99	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A14NW (NE)	455	5	313902 181528
100	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 135.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	520	5	312810 181685
101	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 222.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	520	5	312810 181685
102	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 653.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	540	5	313541 180483
103	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 21.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A8SE (S)	540	5	313541 180483
104	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 86.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SE (NW)	623	5	312675 181672
105	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 21.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NE (SE)	628	5	314095 180773

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	<b>OS Water Network Lines</b> Watercourse Form: Canal Watercourse Length: 413.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Glamorganshire Canal Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9NE (SE)	638	5	314098 180757
107	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 37.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A7SE (SW)	652	5	312757 180460
108	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 47.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17NE (NW)	701	5	312764 181896
109	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 62.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17NE (NW)	743	5	312754 181942
110	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 93.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17NE (NW)	776	5	312694 181934
111	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 328.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NW (N)	798	5	313107 182164
112	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 186.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant y Fforest Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A18NW (N)	798	5	313107 182164
113	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 68.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	804	5	312591 181869
114	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 63.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	826	5	312556 181857

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 277.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant y Fforest Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A23SW (N)	834	5	313287 182213
116	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 118.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	843	5	312510 181822
117	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 26.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NE (S)	857	5	313414 180165
118	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 360.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NE (S)	857	5	313334 180163
119	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 80.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NW (S)	869	5	313049 180159
120	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 57.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NE (S)	882	5	313421 180140
121	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NW (S)	889	5	312975 180146
122	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 164.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NW (S)	893	5	312962 180144
123	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	905	5	312401 181761

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 124.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A17SW (NW)	907	5	312397 181758
125	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 51.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A6NE (SW)	914	5	312259 180604
126	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 16.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9SE (SE)	915	5	314177 180387
127	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 122.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A9SE (SE)	917	5	314167 180374
128	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NE (S)	934	5	313446 180088
129	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 16.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A3NE (S)	937	5	313447 180085
130	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 16.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NE (S)	937	5	313447 180085
131	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 17.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A22SE (N)	946	5	312881 182251
132	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NE (S)	953	5	313451 180069



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 57.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NE (S)	960	5	313437 180061
134	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 45.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NE (S)	960	5	313452 180062
135	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 24.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A22SE (N)	962	5	312879 182268
136	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 17.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A22SE (N)	962	5	312879 182268
137	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 152.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A22SE (NW)	965	5	312840 182254
138	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 17.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 2	A22SE (NW)	968	5	312855 182264
139	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 25.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A22SE (N)	979	5	312877 182285
140	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 792.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Taf Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A22SE (N)	985	5	312852 182281
141	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 47.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Melingruffydd Feeder Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A10SW (SE)	995	5	314320 180433

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 54.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cynon, Ely and Rhondda Primacy: 1	A3NE (S)	997	5	313424 180025

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	<b>Historical Landfill Sites</b> Licence Holder: Cardiff Corporation Location: Cardiff, South Glamorganshire Name: Glamorganshire Canal Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15236 First Input Date: 30th December 1931 Last Input Date: 31st December 1950 Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0038 BGS Ref: Not Supplied Other Ref: 6815/0039	A18SE (N)	390	2	313519 181732
144	<b>Historical Landfill Sites</b> Licence Holder: Cardiff City Council Leisure and Amenities Department Location: Whitchurch, Cardiff, South Glamorgan Name: Forest Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15196 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0032 BGS Ref: Not Supplied Other Ref: Not Supplied	A9SW (SE)	533	2	313639 180504
145	<b>Historical Landfill Sites</b> Licence Holder: Not Supplied Location: Whitchurch, Cardiff, South Glamorgan Name: GKN Chrome Plating Spoil Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14140 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6815/0036 BGS Ref: Not Supplied Other Ref: Not Supplied	A9NE (SE)	628	2	314055 180697
146	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30380 Location: Columbus House, Greenmeadow Springs, Tongwynlais, Cardiff, Glamorgan, CF15 7NE Operator Name: Celtic Technologies Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 4th November 2005 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned within the geographical locality	A19NE (NE)	825	2	314102 181891

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30251 Location: Greenmeadow Springs, Cardiff, Glamorgan, CF15 7NE Operator Name: Celtic Technologies Ltd : Licence No 6 Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 16th November 2001 Last Modified: 28th March 2006 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned within the geographical locality	A19NE (NE)	825	2	314102 181891
146	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30249 Location: Columbus House, Greenmeadow Springs, Tongwynlais, Cardiff, Glamorgan, CF15 7NE Operator Name: Celtic Technologies Ltd : Licence No 5 Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 9th October 2001 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned within the geographical locality	A19NE (NE)	825	2	314102 181891
146	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30217 Location: Columbus House, Greenmeadow Springs, Tongwynlais, Cardiff, Glamorgan, CF15 7NE Operator Name: Celtic Technologies Ltd : Licence No 1 Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 25th October 2000 Last Modified: 24th January 2006 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned within the geographical locality	A19NE (NE)	825	2	314102 181891
146	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30232 Location: Columbus House, Greenmeadow Springs, Tongwynlais, Cardiff, Glamorgan, CF15 7NE Operator Name: Celtic Technologies Ltd : Licence No 3 Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 6th June 2000 Last Modified: 28th June 2002 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned within the geographical locality	A19NE (NE)	825	2	314102 181891

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30218 Location: Columbus House, Greenmeadow Springs, Tongwynlais, Cardiff, Glamorgan, CF15 7NE Operator Name: Celtic Technologies Ltd : Licence No 2 Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 11th May 2000 Last Modified: 13th March 2002 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned within the geographical locality	A19NE (NE)	825	2	314102 181891
146	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30247 Location: Columbus House, Greenmeadow Springs, Tongwynlais, Cardiff, Glamorgan, CF15 7NE Operator Name: Celtic Technologies Ltd : Licence No 4 Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 2nd October 1998 Last Modified: 19th December 2001 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned within the geographical locality	A19NE (NE)	825	2	314102 181891
147	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30259 Location: 2 Ty Nant Court, Morganstown, Cardiff, Glamorgan, CF15 8LW Operator Name: W S P Remediation Ltd : Licence No 2 Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 15th January 2002 Last Modified: 24th May 2004 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	883	2	312840 182163
148	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30316 Location: 2 Ty Nant Court, Morganstown, Cardiff, Glamorgan, CF15 8LW Operator Name: W S P Remediation Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 10th March 2004 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned to the address or location	A22SE (NW)	944	2	312808 182216

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30310 Location: 2 Ty Nant Court, Morganstown, Cardiff, Glamorgan, CF15 8LW Operator Name: W S P Remediation Ltd : Licence No 6 Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 17th February 2004 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st April 2006 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned to the address or location	A22SE (NW)	944	2	312808 182216
148	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30292 Location: 2 Ty Nant Court, Morganstown, Cardiff, Glamorgan, CF15 8LW Operator Name: W S P Remediation Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 13th June 2003 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st April 2006 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned to the address or location	A22SE (NW)	944	2	312808 182216
148	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30286 Location: 2 Ty Nant Court, Morganstown, Cardiff, Glamorgan, CF15 8LW Operator Name: W S P Remediation Ltd : Licence No 4 Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 25th February 2003 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned to the address or location	A22SE (NW)	944	2	312808 182216
148	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30287 Location: 2 Ty Nant Court, Morganstown, Cardiff, Glamorgan, CF15 8LW Operator Name: W S P Remediation Ltd : Licence No 5 Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 25th February 2003 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned to the address or location	A22SE (NW)	944	2	312808 182216
148	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30261 Location: 2 Ty Nant Court, Morganstown, Cardiff, Glamorgan, CF15 8LW Operator Name: W S P Remediation Ltd : Licence No 3 Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 15th January 2002 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned to the address or location	A22SE (NW)	944	2	312808 182216



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30289 Location: 2 Ty Nant Court, Morganstown, Cardiff, Glamorgan, CF15 8LW Operator Name: W S P Remediation Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Surrendered</b> Issued: 29th June 1999 Last Modified: 9th June 2003 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st December 2010 IPPC Reference: Not Supplied Positional Accuracy: Manually positioned to the address or location	A22SE (NW)	944	2	312808 182216
148	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 30297 Location: 70 Chancery Lane, London, WC2A 1AF Operator Name: W S P Remediation Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Mobile Plant <b>Licence Status: Modified</b> Issued: 14th July 2000 Last Modified: 13th April 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22SE (NW)	945	2	312809 182217
	<b>Local Authority Landfill Coverage</b> Name: Cardiff Council - Has no landfill data to supply		0	6	313310 181167
149	<b>Potentially Infilled Land (Non-Water)</b> Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A23SW (N)	943	-	313083 182306
150	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14NW (NE)	154	-	313646 181347
151	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A13NE (NE)	177	-	313624 181453
152	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A18SE (NE)	303	-	313530 181640
153	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A9NW (SE)	332	-	313743 180778
154	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A9NW (SE)	361	-	313751 180747
155	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A18SE (N)	388	-	313522 181727
156	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A18SE (N)	458	-	313511 181801
157	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A19SW (NE)	486	-	313823 181691
158	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A17SE (NW)	505	-	312779 181618
159	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A12SW (W)	509	-	312557 180985

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A8SW (S)	542	-	313154 180481
161	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1886	A8SW (S)	543	-	313180 180481
162	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A12NE (NW)	589	-	312632 181494
163	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A19SW (NE)	610	-	313891 181798
164	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1951	A17SE (NW)	635	-	312665 181679
165	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1886	A8SE (S)	640	-	313464 180381
166	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A17SE (NW)	650	-	312657 181695
167	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A7SE (SW)	654	-	312746 180464
168	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A7NW (SW)	660	-	312584 180583
169	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A9NE (SE)	665	-	314095 180691
170	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1952	A19SE (NE)	729	-	314175 181582
171	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1885	A19NW (N)	753	-	313638 182077
172	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A23SE (N)	841	-	313389 182214
173	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A11SE (W)	884	-	312189 180888
174	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A23SE (N)	919	-	313430 182289
175	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A11SE (W)	921	-	312142 181017
176	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1886	A15SW (E)	937	-	314445 180885
177	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1886	A3NE (S)	943	-	313293 180078
178	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A10NW (SE)	993	-	314419 180605

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
179	<b>Control of Major Accident Hazards Sites (COMAH)</b> Name: Nycomed Amersham Plc Location: Cardiff Laboratories, Forest Farm Road, Whitchurch, Cardiff, CF14 7YT Reference: Not Supplied Type: Upper Tier <b>Status: Record Ceased To Be Supplied Under COMAH Regulations</b> Positional Accuracy: Automatically positioned to the address	A13NE (N)	0	7	313312 181221

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Upper Devonian Rocks (Undifferentiated)	A13NW (N)	0	1	313257 181346
	<b>BGS 1:625,000 Solid Geology</b> Description: Lower Devonian Rocks (Undifferentiated)	A13SE (SE)	0	1	313310 181167
	<b>BGS Estimated Soil Chemistry</b> 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: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	0	1	313310 181167
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	491	1	313496 181839
	<b>BGS Estimated Soil Chemistry</b> 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: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17NE (NW)	805	1	312789 182045
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (NE)	884	1	313823 182158
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11NE (W)	927	1	312205 181397

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> 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: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A23SW (N)	965	1	313099 182332
180	<b>BGS Recorded Mineral Sites</b> Site Name: Tynant Quarry Location: Treforgan, Cardiff, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 48975 Type: Opencast <b>Status: Ceased</b> Operator: Breedon Southern Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Friars Point Limestone Formation, Black Rock Limestone Subgroup Commodity: Dolomite Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	917	1	312700 182120
181	<b>BGS Recorded Mineral Sites</b> Site Name: Pen-Y-Pebyll Location: Pentyrch, Cardiff, Glamorgan Source: British Geological Survey, National Geoscience Information Service Reference: 127718 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Brofiscin Oolite Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	999	1	312417 181961
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 313120, 181290 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured: 29.10 mg/kg Concentration: Cadmium Measured: 0.30 mg/kg Concentration: Chromium Measured: 57.40 mg/kg Concentration: Lead Measured: 67.00 mg/kg Concentration: Nickel Measured: 21.20 mg/kg Concentration:	A13NW (NW)	62	1	313120 181290
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 313260, 180790 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured: 22.40 mg/kg Concentration: Cadmium Measured: 0.40 mg/kg Concentration: Chromium Measured: 50.50 mg/kg Concentration: Lead Measured: 48.50 mg/kg Concentration: Nickel Measured: 24.70 mg/kg Concentration:	A8NW (S)	232	1	313260 180790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 313750, 181250 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 31.60 mg/kg Concentration: Cadmium Measured 0.20 mg/kg Concentration: Chromium Measured 68.70 mg/kg Concentration: Lead Measured 118.20 mg/kg Concentration: Nickel Measured 36.80 mg/kg Concentration:	A14NW (E)	250	1	313750 181250
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 313280, 181660 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 16.30 mg/kg Concentration: Cadmium Measured 0.40 mg/kg Concentration: Chromium Measured 59.20 mg/kg Concentration: Lead Measured 60.70 mg/kg Concentration: Nickel Measured 26.60 mg/kg Concentration:	A18SW (N)	280	1	313280 181660
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 313750, 180770 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 15.30 mg/kg Concentration: Cadmium Measured 0.10 mg/kg Concentration: Chromium Measured 54.00 mg/kg Concentration: Lead Measured 43.10 mg/kg Concentration: Nickel Measured 17.60 mg/kg Concentration:	A9NW (SE)	343	1	313750 180770
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 312730, 180820 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 16.30 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 58.40 mg/kg Concentration: Lead Measured 65.50 mg/kg Concentration: Nickel Measured 23.60 mg/kg Concentration:	A7NE (SW)	398	1	312730 180820
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 313830, 181710 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 10.70 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 58.00 mg/kg Concentration: Lead Measured 40.30 mg/kg Concentration: Nickel Measured 23.70 mg/kg Concentration:	A19SW (NE)	504	1	313830 181710



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 312620, 181360 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 12.50 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 56.60 mg/kg Concentration: Lead Measured 44.00 mg/kg Concentration: Nickel Measured 23.40 mg/kg Concentration:	A12NE (W)	535	1	312620 181360
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 312780, 181750 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 16.50 mg/kg Concentration: Cadmium Measured 0.30 mg/kg Concentration: Chromium Measured 55.60 mg/kg Concentration: Lead Measured 133.70 mg/kg Concentration: Nickel Measured 41.20 mg/kg Concentration:	A17SE (NW)	585	1	312780 181750
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 312360, 181250 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 13.00 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 56.50 mg/kg Concentration: Lead Measured 34.10 mg/kg Concentration: Nickel Measured 21.70 mg/kg Concentration:	A12NW (W)	732	1	312360 181250
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 314240, 181300 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 14.90 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 67.80 mg/kg Concentration: Lead Measured 44.00 mg/kg Concentration: Nickel Measured 24.80 mg/kg Concentration:	A14NE (E)	742	1	314240 181300
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 313290, 180260 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 15.20 mg/kg Concentration: Cadmium Measured 0.10 mg/kg Concentration: Chromium Measured 69.10 mg/kg Concentration: Lead Measured 80.50 mg/kg Concentration: Nickel Measured 23.50 mg/kg Concentration:	A8SW (S)	762	1	313290 180260

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 314250, 180740 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 19.90 mg/kg Concentration: Cadmium Measured 0.40 mg/kg Concentration: Chromium Measured 70.30 mg/kg Concentration: Lead Measured 60.10 mg/kg Concentration: Nickel Measured 33.60 mg/kg Concentration:	A9NE (SE)	784	1	314250 180740
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 313750, 180260 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 19.60 mg/kg Concentration: Cadmium Measured 0.40 mg/kg Concentration: Chromium Measured 54.20 mg/kg Concentration: Lead Measured 53.00 mg/kg Concentration: Nickel Measured 26.40 mg/kg Concentration:	A9SW (SE)	797	1	313750 180260
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 314220, 181770 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 11.60 mg/kg Concentration: Cadmium Measured 0.10 mg/kg Concentration: Chromium Measured 61.60 mg/kg Concentration: Lead Measured 34.50 mg/kg Concentration: Nickel Measured 19.80 mg/kg Concentration:	A19SE (NE)	849	1	314220 181770
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 313750, 182220 Soil Sample Type: Topsoil Sample Area: Cardiff Arsenic Measured 20.70 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 35.60 mg/kg Concentration: Lead Measured 111.50 mg/kg Concentration: Nickel Measured 10.70 mg/kg Concentration:	A24SW (NE)	919	1	313750 182220

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Urban Soil Chemistry Averages</b> Source: British Geological Survey, National Geoscience Information Service Sample Area: Cardiff Count Id: 506 Arsenic Minimum: 6.00 mg/kg Concentration: Arsenic Average: 18.00 mg/kg Concentration: Arsenic Maximum: 149.00 mg/kg Concentration: Cadmium Minimum: 0.10 mg/kg Concentration: Cadmium Average: 0.90 mg/kg Concentration: Cadmium Maximum: 100.60 mg/kg Concentration: Chromium Minimum: 28.00 mg/kg Concentration: Chromium Average: 86.00 mg/kg Concentration: Chromium Maximum: 2933.00 mg/kg Concentration: Lead Minimum: 20.00 mg/kg Concentration: Lead Average: 190.00 mg/kg Concentration: Lead Maximum: 8158.00 mg/kg Concentration: Nickel Minimum: 8.00 mg/kg Concentration: Nickel Average: 35.00 mg/kg Concentration: Nickel Maximum: 482.00 mg/kg Concentration:	A13SE (SE)	0	1	313310 181167
	<b>Coal Mining Affected Areas</b> In an area that might not be affected by coal mining				
	<b>Natural Cavities</b> Easting: 312700 Northing: 182200 Distance: 984 Quadrant Reference: A17 Quadrant Reference: NE Bearing Ref: NW Cavity Type: Vadose Cave Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Upper Carboniferous Limestone Superficial Geology: No Details Detail:	A17NE (NW)	984	9	312700 182200
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	313310 181167
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	313150 181141
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	313310 181167
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	50	1	313069 181269
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	313150 181141
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	313310 181167
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	50	1	313069 181269
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	313310 181167

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	313100 181162
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	313310 181167
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	22	1	313048 181070
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	46	1	313057 181137
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	60	1	313024 181109
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	74	1	313007 180989
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	74	1	312994 181014
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	126	1	313118 181440
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	135	1	313189 181502
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	159	1	313021 180882
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A14SW (E)	226	1	313744 181016
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	227	1	313132 180783
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	313150 181141
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	313310 181167
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	50	1	313069 181269
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	74	1	313007 180989
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	313310 181167
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	313150 181141
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	74	1	313007 180989
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	99	1	313069 181269

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	313099 181050
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	313310 181167
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	313074 181150
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	313099 181050
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	313310 181167
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	313074 181150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
182	<b>Contemporary Trade Directory Entries</b> Name: Ortho Clinical Diagnostics Location: Cardiff Laboratories, Forest Farm Road, Whitchurch, Cardiff, CF14 7YT Classification: Medical & Dental Laboratories <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	0	-	313312 181221
182	<b>Contemporary Trade Directory Entries</b> Name: G E Healthcare Location: Cardiff Laboratories, Forest Farm Road, Whitchurch, CARDIFF, CF14 7YT Classification: Pharmaceutical Manufacturers & Distributors <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	0	-	313312 181221
183	<b>Contemporary Trade Directory Entries</b> Name: Sure Chill Location: INNOVATION VILLAGE, CARDIFF EDGE BUSINESS PARK, LONGWOOD DRIVE, WHITCHURCH, CARDIFF, CF14 7YU Classification: Refrigerators & Freezers - Servicing & Repairs <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	0	-	313105 181052
184	<b>Contemporary Trade Directory Entries</b> Name: Mclays Location: Longwood Drive, Cardiff, CF14 7ZB Classification: Printers <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	180	-	313375 180842
184	<b>Contemporary Trade Directory Entries</b> Name: C C S Mcclays Location: Longwood dr, Cardiff, South Glamorgan, CF14 7ZB Classification: Packaging Materials Manufacturers & Suppliers <b>Status:</b> Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NE (S)	180	-	313375 180842
185	<b>Contemporary Trade Directory Entries</b> Name: Rock Uk Location: Longwood Dr, Cardiff, South Glamorgan, CF14 7EW Classification: Petrol Filling Stations <b>Status:</b> Inactive Positional Accuracy: Manually positioned within the geographical locality	A14NW (NE)	267	-	313742 181422
185	<b>Contemporary Trade Directory Entries</b> Name: Asda Filling Station Location: Longwood Drive, Cardiff, CF14 7HY Classification: Petrol Filling Stations <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	282	-	313760 181413
185	<b>Contemporary Trade Directory Entries</b> Name: Esso Petrol Station Location: Longwood Dr, Cardiff, South Glamorgan, CF14 7EW Classification: Petrol Filling Stations - 24 Hour <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	282	-	313760 181412
186	<b>Contemporary Trade Directory Entries</b> Name: Enola-Jay Location: Loch Field Cottage, Ironbridge Road, Tongwynlais, Cardiff, CF15 7NJ Classification: Pest & Vermin Control <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	398	-	313330 181775
187	<b>Contemporary Trade Directory Entries</b> Name: Steve Darwent Driving Services Location: 15, Ael-y-Bryn, Radyr, Cardiff, CF15 8AZ Classification: Car Engine Tuning & Diagnostic Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	417	-	312729 181312
188	<b>Contemporary Trade Directory Entries</b> Name: Esso Location: Longwood Drive, Cardiff, South Glamorgan, CF14 7EW Classification: Petrol Filling Stations <b>Status:</b> Inactive Positional Accuracy: Manually positioned within the geographical locality	A14NW (E)	446	-	313939 181335



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
188	<b>Contemporary Trade Directory Entries</b> Name: Asda Petrol Location: Longwood Drive, Cardiff, CF14 7EW Classification: Petrol Filling Stations <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	446	-	313939 181335
188	<b>Contemporary Trade Directory Entries</b> Name: Johnson Cleaners (Uk) Ltd Location: Longwood Drive, Cardiff, CF14 7EW Classification: Dry Cleaners <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	446	-	313939 181335
189	<b>Contemporary Trade Directory Entries</b> Name: Pugh Garden Centre Location: Main Rd, Morganstown, Cardiff, South Glamorgan, CF15 8LJ Classification: Pet Foods & Animal Feeds <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	460	-	312794 181552
190	<b>Contemporary Trade Directory Entries</b> Name: T A Husband Location: Tynant Nursery, Main Rd, Morganstown, Cardiff, South Glamorgan, CF15 8LJ Classification: Lawnmowers & Garden Machinery - Sales & Service <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	525	-	312769 181638
190	<b>Contemporary Trade Directory Entries</b> Name: M Greenwood Location: 4, Main Road, Morganstown, Cardiff, CF15 8LJ Classification: Printers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	531	-	312754 181627
191	<b>Contemporary Trade Directory Entries</b> Name: Radyr Workshops Ltd Location: Station Road, Radyr, CARDIFF, CF15 8AA Classification: Garage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	553	-	313385 180468
191	<b>Contemporary Trade Directory Entries</b> Name: Engine Professionals Location: Engine Professionals, Radyr Station, Station Road, Cardiff, CF15 8AA Classification: Engine Rebuilding & Reconditioning <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	557	-	313387 180465
191	<b>Contemporary Trade Directory Entries</b> Name: Radyr Garage Ltd Location: Station Road, Radyr, Cardiff, CF15 8AA Classification: Mot Testing Centres <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	563	-	313395 180459
192	<b>Contemporary Trade Directory Entries</b> Name: Clarkes Upholstery Service Location: Merthyr Rd, Tongwynlais, Cardiff, South Glamorgan, CF15 7LD Classification: Furniture - Repairing & Restoring <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	571	-	313732 181856
193	<b>Contemporary Trade Directory Entries</b> Name: J A Consultants Location: 17, Dan-y-Bryn Avenue, Radyr, Cardiff, CF15 8DD Classification: Distribution Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	590	-	312584 180694
194	<b>Contemporary Trade Directory Entries</b> Name: Digital Imports Software Co Location: Old Coach House, Windsor Crescent, Radyr, Cardiff, CF15 8AE Classification: Record, Tape & CD Manufacturers & Wholesalers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	614	-	313311 180408
194	<b>Contemporary Trade Directory Entries</b> Name: Cathedral Cleaners Location: 1a, Station Road, Radyr, Cardiff, CF15 8AA Classification: Dry Cleaners <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	635	-	313292 180387

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
194	<b>Contemporary Trade Directory Entries</b> Name: Cardiff Car Finder Location: Station Rd, Radyr, Cardiff, South Glamorgan, CF15 8AA Classification: Car Dealers - Used <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	655	-	313305 180366
195	<b>Contemporary Trade Directory Entries</b> Name: Phoenix Straps Ltd Location: 30, Springfield Gardens, Morganstown, Cardiff, CF15 8LQ Classification: Leather Garments & Products <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	630	-	312640 181625
196	<b>Contemporary Trade Directory Entries</b> Name: Ener-Chi Location: 57, Heol Isaf, Radyr, Cardiff, CF15 8AH Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	648	-	313255 180375
197	<b>Contemporary Trade Directory Entries</b> Name: Victoria Garage Location: 22, Station Road, Radyr, Cardiff, CF15 8AA Classification: Garage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	690	-	313355 180332
198	<b>Contemporary Trade Directory Entries</b> Name: Merejean Ltd Location: 29, Cefn Coch, Radyr, Cardiff, CF15 8BJ Classification: Ventilators & Ventilation Systems <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	698	-	312379 181183
199	<b>Contemporary Trade Directory Entries</b> Name: Shinedog Merchandising Location: 31, Pendwyallt Road, Cardiff, CF14 7YR Classification: Sports Equipment Manufacturers & Distributors <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	702	-	314198 181327
200	<b>Contemporary Trade Directory Entries</b> Name: Hartleyz Domestic Cleaning Services Location: 16, Queen Street, Tongwynlais, Cardiff, CF15 7NL Classification: Commercial Cleaning Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	721	-	313311 182100
200	<b>Contemporary Trade Directory Entries</b> Name: H & N Services Location: 31, Merthyr Road, Tongwynlais, Cardiff, CF15 7LF Classification: Commercial Cleaning Services <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	768	-	313324 182147
201	<b>Contemporary Trade Directory Entries</b> Name: Pressed Express Location: 14, Ffordd y Berllan, Morganstown, CARDIFF, CF15 8EY Classification: Ironing & Home Laundry Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	730	-	312511 181575
202	<b>Contemporary Trade Directory Entries</b> Name: Victoria Fearn Location: 13, Blaen-y-Coed, Radyr, Cardiff, CF15 8RL Classification: Jewellery Manufacturers & Repairers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	740	-	312337 180898
203	<b>Contemporary Trade Directory Entries</b> Name: Asap Location: 7, Clos Ysgallen, Morganstown, Cardiff, CF15 8FT Classification: Commercial Cleaning Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	769	-	312489 181629
203	<b>Contemporary Trade Directory Entries</b> Name: Asap Location: 7, Clos Ysgallen, Morganstown, Cardiff, CF15 8FT Classification: Cleaning Services - Domestic <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	769	-	312489 181629

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	<b>Contemporary Trade Directory Entries</b> Name: Ponty Print Location: 6, Garth Close, Morganstown, Cardiff, CF15 8LF Classification: Printers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	776	-	312617 181854
205	<b>Contemporary Trade Directory Entries</b> Name: Celtics Autogas Location: Merthyr Rd, Tongwynlais, Cardiff, South Glamorgan, CF15 7XW Classification: Garage Services <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A18NE (N)	785	-	313322 182164
205	<b>Contemporary Trade Directory Entries</b> Name: Penny Wise Auto Location: Merthyr Rd, Tongwynlais, Cardiff, South Glamorgan, CF15 7XW Classification: Garage Services <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A18NE (N)	793	-	313314 182172
205	<b>Contemporary Trade Directory Entries</b> Name: Ton Hardware Location: Merthyr Road, Tongwynlais, Cardiff, CF15 7XW Classification: Hardware <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A18NE (N)	826	-	313318 182204
205	<b>Contemporary Trade Directory Entries</b> Name: Deco Heat Location: Ton Garage, Merthyr Road, Tongwynlais, Cardiff, CF15 7LF Classification: Fireplaces & Mantelpieces <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A18NE (N)	826	-	313318 182204
206	<b>Contemporary Trade Directory Entries</b> Name: Tim Eedy Location: 11, Market Street, Tongwynlais, CARDIFF, CF15 7NS Classification: Domestic Appliances - Servicing, Repairs & Parts <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A18NW (N)	785	-	313192 182162
207	<b>Contemporary Trade Directory Entries</b> Name: Lorne Stewart Plc Location: Unit 1, Village Way, Tongwynlais, Cardiff, CF15 7NE Classification: Mechanical Engineers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A19SE (NE)	801	-	314136 181811
207	<b>Contemporary Trade Directory Entries</b> Name: Sogefi Filtration Ltd Location: Unit 2, Village Way, Tongwynlais, Cardiff, South Glamorgan, CF15 7NE Classification: Filter Manufacturers & Suppliers <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	803	-	314129 181823
208	<b>Contemporary Trade Directory Entries</b> Name: Buzz Off! Wasp Control Location: 7, Bryn Derwen, Radyr, Cardiff, CF15 8RP Classification: Pest & Vermin Control <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A6NE (SW)	909	-	312229 180679
209	<b>Contemporary Trade Directory Entries</b> Name: Bezeal Location: 16, Bryn Calch, Morganstown, Cardiff, CF15 8FD Classification: Jewellery Manufacturers & Repairers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A11NE (W)	912	-	312260 181486
210	<b>Contemporary Trade Directory Entries</b> Name: Silvadec Uk Ltd Location: 14, Pine Tree Close, Radyr, Cardiff, CF15 8RQ Classification: Distribution Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A11SE (W)	951	-	312113 181094
210	<b>Contemporary Trade Directory Entries</b> Name: Silvadec Uk Ltd Location: 14, Pine Tree Close, Radyr, Cardiff, CF15 8RQ Classification: Distribution Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A11SE (W)	951	-	312113 181094

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
211	<b>Fuel Station Entries</b> Name: Asda Coryton Location: Longwood Drive , Coryton , Cardiff, Cardiff, CF14 7EW Brand: Asda Premises Type: Hypermarket <b>Status: Open</b> Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	283	-	313760 181416
212	<b>Points of Interest - Commercial Services</b> Name: Bay Shipping Ltd Location: Whitchurch, Cardiff, CF14 7YT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SW (W)	0	10	313194 181122
213	<b>Points of Interest - Commercial Services</b> Name: B T Fleet Location: Cardiff Tec, Longwood Drive, Cardiff, CF14 7XZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (SE)	168	10	313554 180859
214	<b>Points of Interest - Commercial Services</b> Name: Car Wash Location: Longwood Drive, Cardiff, CF14 7HY Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NW (NE)	283	10	313760 181416
214	<b>Points of Interest - Commercial Services</b> Name: Asda Coryton Location: Longwood Drive, Cardiff, CF14 7HY Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NW (NE)	301	10	313772 181438
215	<b>Points of Interest - Commercial Services</b> Name: Radyr Garage Ltd Location: Station Road, Radyr, Cardiff, CF15 8AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	563	10	313395 180459
215	<b>Points of Interest - Commercial Services</b> Name: Engine Professionals Ltd Location: Radyr Station, Junction Terrace, Radyr, Cardiff, South Glamorgan, CF15 8ED Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	572	10	313438 180450
216	<b>Points of Interest - Commercial Services</b> Name: Victoria Garage Location: 22 Station Road, Radyr, Cardiff, CF15 8AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	674	10	313356 180348
216	<b>Points of Interest - Commercial Services</b> Name: Victoria Garage Location: 22 Station Road, Radyr, Cardiff, CF15 8AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	676	10	313358 180346
217	<b>Points of Interest - Commercial Services</b> Name: Keys 4 Cars Location: 4 Drovers Way, Radyr, Cardiff, CF15 8GG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A3NW (S)	908	10	313024 180122
218	<b>Points of Interest - Commercial Services</b> Name: Buzz Off! Wasp Control Location: 7 Bryn Derwen, Radyr, Cardiff, CF15 8RP Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A6NE (SW)	909	10	312229 180679
219	<b>Points of Interest - Commercial Services</b> Name: Silvadec UK Ltd Location: 14 Pine Tree Close, Radyr, Cardiff, CF15 8RQ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A11SE (W)	951	10	312113 181094

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
220	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: CF14 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NE (NE)	0	10	313462 181310
220	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: CF14 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NE (NE)	0	10	313455 181318
220	<b>Points of Interest - Manufacturing and Production</b> Name: Tanks Location: CF14 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	0	10	313443 181316
221	<b>Points of Interest - Manufacturing and Production</b> Name: Factory Location: CF14 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	10	10	313227 181013
221	<b>Points of Interest - Manufacturing and Production</b> Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	19	10	313232 181004
221	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: CF14 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	27	10	313312 180994
222	<b>Points of Interest - Manufacturing and Production</b> Name: Factory Location: CF14 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13SW (SW)	67	10	313192 180957
222	<b>Points of Interest - Manufacturing and Production</b> Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	73	10	313189 180951
223	<b>Points of Interest - Manufacturing and Production</b> Name: Hydroelectric Power Station Location: CF14 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	220	10	313010 180822
224	<b>Points of Interest - Manufacturing and Production</b> Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	682	10	313266 182062
225	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: CF15 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	738	10	312880 182020
226	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: CF14 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SE (SE)	872	10	314216 180500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
227	<b>Points of Interest - Manufacturing and Production</b> Name: Quarry (Disused) Location: CF15 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	932	10	312689 182130
227	<b>Points of Interest - Manufacturing and Production</b> Name: Quarry (Disused) Location: CF15 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	938	10	312688 182137
227	<b>Points of Interest - Manufacturing and Production</b> Name: Limekiln Location: CF15 Category: Industrial Features Class Code: Lime Kilns Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	957	10	312732 182188
228	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: CF5 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A6SE (SW)	958	10	312267 180505
229	<b>Points of Interest - Manufacturing and Production</b> Name: Tank Location: CF15 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19NE (NE)	996	10	314268 181958
230	<b>Points of Interest - Public Infrastructure</b> Name: Outfall Location: CF15 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	53	10	313106 181230
231	<b>Points of Interest - Public Infrastructure</b> Name: Sluice Location: CF14 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	188	10	313052 180844
231	<b>Points of Interest - Public Infrastructure</b> Name: Weir Location: CF14 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	264	10	313063 180765
231	<b>Points of Interest - Public Infrastructure</b> Name: Weir Location: CF14 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	266	10	313060 180763
232	<b>Points of Interest - Public Infrastructure</b> Name: Rock UK Location: Longwood Drive, Cardiff, CF14 7EW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (NE)	281	10	313758 181416
232	<b>Points of Interest - Public Infrastructure</b> Name: Asda Filling Station Location: Longwood Drive, Cardiff, CF14 7HY Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (NE)	281	10	313759 181412
232	<b>Points of Interest - Public Infrastructure</b> Name: Coryton Services Location: Filling Station, Longwood Drive, Cardiff, South Glamorgan, CF14 7E Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (NE)	282	10	313760 181412



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
232	<b>Points of Interest - Public Infrastructure</b> Name: Esso Location: Longwood Drive, Cardiff, CF14 7EW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (NE)	283	10	313760 181416
232	<b>Points of Interest - Public Infrastructure</b> Name: Asda Petrol Location: Longwood Drive, Cardiff, CF14 7EW Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (NE)	283	10	313760 181415
232	<b>Points of Interest - Public Infrastructure</b> Name: Coryton Services Location: Longwood Drive, Cardiff, CF14 7HY Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (NE)	283	10	313760 181416
233	<b>Points of Interest - Public Infrastructure</b> Name: Radyr Police Office Location: Old Church Rooms, Radyr, Cardiff, CF15 Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A7NE (SW)	316	10	312910 180759
234	<b>Points of Interest - Public Infrastructure</b> Name: Radyr Rail Station Location: CF15 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A8SE (S)	572	10	313439 180450
234	<b>Points of Interest - Public Infrastructure</b> Name: Radyr Station Location: Nr Station Road, CF15 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A8SE (S)	572	10	313439 180450
235	<b>Points of Interest - Public Infrastructure</b> Name: Sewage Pumping Station Location: CF14 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9SE (SE)	875	10	314189 180460
235	<b>Points of Interest - Public Infrastructure</b> Name: Outfall Location: CF14 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9SE (SE)	914	10	314173 180385
236	<b>Points of Interest - Public Infrastructure</b> Name: Cemetery Location: CF14 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A15NW (E)	994	10	314469 181496
237	<b>Points of Interest - Recreational and Environmental</b> Name: Picnic Site Location: CF14 Category: Recreational Class Code: Picnic Areas Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	215	10	313120 180810
237	<b>Points of Interest - Recreational and Environmental</b> Name: Picnic Site Location: Longwood Drive, CF14 Category: Recreational Class Code: Picnic Areas Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	238	10	313111 180788
238	<b>Points of Interest - Recreational and Environmental</b> Name: Picnic Site Location: CF15 Category: Recreational Class Code: Picnic Areas Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	369	10	313479 181718



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
238	<b>Points of Interest - Recreational and Environmental</b> Name: Picnic Site Location: Nr Iron Bridge Road, CF15 Category: Recreational Class Code: Picnic Areas Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	369	10	313480 181718
239	<b>Points of Interest - Recreational and Environmental</b> Name: Skatepark Location: CF15 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	520	10	312863 181742
240	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	528	10	312536 181007
240	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: (Craig Castell), CF15 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A12SW (W)	536	10	312529 180998
241	<b>Points of Interest - Recreational and Environmental</b> Name: Picnic Site Location: Nr Forest Farm Road, CF14 Category: Recreational Class Code: Picnic Areas Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	557	10	313834 180564
241	<b>Points of Interest - Recreational and Environmental</b> Name: Picnic Site Location: CF14 Category: Recreational Class Code: Picnic Areas Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	559	10	313834 180561
242	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	594	10	313351 181970
242	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Grant'S Close, CF15 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	594	10	313351 181970
243	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	670	10	312562 181539
243	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: (Ffordd-Y-Berllan), CF15 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NW (NW)	689	10	312541 181538
244	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Hollybush Estate, CF14 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A14SE (E)	685	10	314202 181073
244	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	693	10	314209 181075

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
245	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Drovers Way, CF15 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A3NW (S)	897	10	313082 180129
246	<b>Points of Interest - Recreational and Environmental</b> Name: Playground Location: Fisher Hill Way, CF15 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A3NE (S)	981	10	313523 180041

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
247	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15567 Area(m²): 6214.48 Type: Ancient and Semi-Natural Woodland	A13NW (NW)	9	2	313166 181263
248	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15568 Area(m²): 48395.93 Type: Ancient and Semi-Natural Woodland	A13SW (W)	100	2	312996 181199
249	<b>Ancient Woodland</b> Name: Not Supplied Reference: 10712 Area(m²): 56940.51 Type: Restored Ancient Woodland Site	A14SW (E)	149	2	313655 181124
250	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15566 Area(m²): 1437.87 Type: Ancient and Semi-Natural Woodland	A14NW (E)	154	2	313658 181281
251	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15569 Area(m²): 4072.39 Type: Ancient and Semi-Natural Woodland	A14NW (NE)	162	2	313644 181380
252	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15564 Area(m²): 8288.82 Type: Ancient and Semi-Natural Woodland	A8NW (SW)	173	2	313131 180834
253	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15565 Area(m²): 3186.06 Type: Ancient and Semi-Natural Woodland	A14SW (E)	219	2	313726 181116
254	<b>Ancient Woodland</b> Name: Not Supplied Reference: 22073 Area(m²): 6416.3 Type: Restored Ancient Woodland Site	A18SE (NE)	250	2	313593 181566
255	<b>Ancient Woodland</b> Name: Not Supplied Reference: 11828 Area(m²): 8284.24 Type: Ancient and Semi-Natural Woodland	A14SW (SE)	279	2	313773 180907
256	<b>Ancient Woodland</b> Name: Not Supplied Reference: 22069 Area(m²): 1922.87 Type: Restored Ancient Woodland Site	A14SW (SE)	282	2	313780 180918
257	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15703 Area(m²): 11704.53 Type: Ancient and Semi-Natural Woodland	A13NW (NW)	286	2	312959 181491
258	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15562 Area(m²): 6762.22 Type: Ancient and Semi-Natural Woodland	A8NW (S)	378	2	313289 180643
259	<b>Ancient Woodland</b> Name: Not Supplied Reference: 14683 Area(m²): 6222.42 Type: Ancient and Semi-Natural Woodland	A12NE (W)	474	2	312705 181381
260	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15706 Area(m²): 8296.47 Type: Ancient and Semi-Natural Woodland	A17SE (NW)	527	2	312808 181695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
261	<b>Ancient Woodland</b> Name: Not Supplied Reference: 11827 Area(m²): 5189.01 Type: Ancient and Semi-Natural Woodland	A9NE (SE)	579	2	314044 180780
262	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15561 Area(m²): 3046.17 Type: Ancient and Semi-Natural Woodland	A9SW (SE)	591	2	313814 180511
263	<b>Ancient Woodland</b> Name: Not Supplied Reference: 14664 Area(m²): 5189.2 Type: Ancient and Semi-Natural Woodland	A7NW (SW)	600	2	312531 180763
264	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15708 Area(m²): 2004.7 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	742	2	312800 181976
265	<b>Ancient Woodland</b> Name: Not Supplied Reference: 22076 Area(m²): 3550.49 Type: Restored Ancient Woodland Site	A19NE (NE)	747	2	313999 181884
266	<b>Ancient Woodland</b> Name: Not Supplied Reference: 22077 Area(m²): 22383.38 Type: Restored Ancient Woodland Site	A19NW (N)	749	2	313659 182069
267	<b>Ancient Woodland</b> Name: Not Supplied Reference: 10715 Area(m²): 199096.95 Type: Restored Ancient Woodland Site	A19NW (NE)	778	2	313950 181965
268	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15563 Area(m²): 9635.15 Type: Ancient and Semi-Natural Woodland	A9NE (SE)	781	2	314230 180700
269	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15704 Area(m²): 8995.56 Type: Ancient and Semi-Natural Woodland	A17SW (NW)	795	2	312572 181828
270	<b>Ancient Woodland</b> Name: Not Supplied Reference: 21653 Area(m²): 5378.57 Type: Restored Ancient Woodland Site	A12NW (W)	801	2	312281 181218
271	<b>Ancient Woodland</b> Name: Not Supplied Reference: 8413 Area(m²): 174477.81 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	805	2	312789 182045
272	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15709 Area(m²): 8718.85 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	813	2	312806 182065
273	<b>Ancient Woodland</b> Name: Not Supplied Reference: 48353 Area(m²): 8867.21 Type: Ancient Woodland Site of Unknown Category	A9NE (SE)	827	2	314263 180662
274	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15540 Area(m²): 6310.01 Type: Ancient and Semi-Natural Woodland	A8SE (S)	832	2	313387 180189



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
275	<b>Ancient Woodland</b> Name: Not Supplied Reference: 10714 Area(m <sup>2</sup> ): 30516.01 Type: Restored Ancient Woodland Site	A18NE (N)	834	2	313540 182186
276	<b>Ancient Woodland</b> Name: Not Supplied Reference: 21652 Area(m <sup>2</sup> ): 75555.17 Type: Restored Ancient Woodland Site	A7NW (SW)	870	2	312321 180585
277	<b>Ancient Woodland</b> Name: Not Supplied Reference: 8362 Area(m <sup>2</sup> ): 10793.18 Type: Ancient and Semi-Natural Woodland	A3NE (S)	881	2	313430 180141
278	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15710 Area(m <sup>2</sup> ): 6088.02 Type: Ancient and Semi-Natural Woodland	A22SE (NW)	934	2	312863 182231
279	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15711 Area(m <sup>2</sup> ): 2695.09 Type: Ancient and Semi-Natural Woodland	A23SW (N)	954	2	313066 182315
280	<b>Ancient Woodland</b> Name: Not Supplied Reference: 14678 Area(m <sup>2</sup> ): 4459.27 Type: Ancient and Semi-Natural Woodland	A11NE (W)	967	2	312120 181257
281	<b>Ancient Woodland</b> Name: Not Supplied Reference: 8188 Area(m <sup>2</sup> ): 73858.4 Type: Ancient and Semi-Natural Woodland	A11NE (W)	970	2	312120 181268
282	<b>Ancient Woodland</b> Name: Not Supplied Reference: 15707 Area(m <sup>2</sup> ): 3087.85 Type: Ancient and Semi-Natural Woodland	A17NW (NW)	980	2	312428 181943
283	<b>Local Nature Reserves</b> Name: Glamorganshire Canal Multiple Area: Y Area (m2): 297121.7 Source: Cardiff Council Designation Date: 31st December 1981	A13NE (E)	0	6	313493 181205
284	<b>Local Nature Reserves</b> Name: Glamorganshire Canal Multiple Area: Y Area (m2): 31571.71 Source: Cardiff Council Designation Date: 31st December 1981	A13NE (N)	14	6	313315 181392
285	<b>Local Nature Reserves</b> Name: Glamorganshire Canal Multiple Area: Y Area (m2): 21382.61 Source: Cardiff Council Designation Date: 31st December 1981	A18SE (NE)	238	6	313500 181578
286	<b>Sites of Special Scientific Interest</b> Name: Glamorgan Canal / Long Wood Multiple Areas: N Total Area (m2): 98091.18 Source: Natural Resources Wales Reference: 5233wvr Designation Details: Biological Designation Date: 1st January 1980 Date Type: Notified	A14SW (E)	112	2	313639 181104

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
287	<b>Sites of Special Scientific Interest</b> Name: Garth Wood Multiple Areas: Y Total Area (m2): 637276.36 Source: Natural Resources Wales Reference: 101133wky Designation Details: Biological Designation Date: 1st January 1983 Date Type: Notified	A17NE (NW)	739	2	312797 181971
288	<b>Sites of Special Scientific Interest</b> Name: Castell Coch Woodlands And Road Section Multiple Areas: N Total Area (m2): 170026.53 Source: Natural Resources Wales Reference: 20933wvm Designation Details: Mixed Biological And Geological Designation Date: 1st January 1972 Date Type: Notified	A23SW (N)	980	2	313098 182346
289	<b>Special Areas of Conservation</b> Name: Cardiff Beech Woods Multiple Areas: Y Total Area (m2): 1157072.47 Source: Natural Resources Wales Reference: Uk0030109 <b>Status: Designated</b>	A17NE (NW)	739	2	312797 181971

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

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



Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	November 2002	As notified
<b>Historical Landfill Sites</b> Natural Resources Wales	July 2019	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Welsh Region	January 2009	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency Wales - South East Area Natural Resources Wales	October 2021 October 2021	Quarterly Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Natural Resources Wales Environment Agency Wales - South East Area	January 2022 July 2021	Quarterly Quarterly
<b>Local Authority Landfill Coverage</b> Caerphilly County Borough Council - Environmental Health Department Cardiff Council Rhondda Cynon Taff County Borough Council Vale Of Glamorgan County Borough Council	February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Caerphilly County Borough Council - Environmental Health Department Cardiff Council Rhondda Cynon Taff County Borough Council Vale Of Glamorgan County Borough Council	October 2018 October 2018 October 2018 October 2018	
<b>Potentially Infilled Land (Non-Water)</b> Landmark Information Group Limited	December 1999	Not Applicable
<b>Potentially Infilled Land (Water)</b> Landmark Information Group Limited	December 1999	
<b>Registered Landfill Sites</b> Environment Agency Wales - South East Area	March 2006	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency Wales - South East Area	April 2018	
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency Wales - South East Area	June 2015	
Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	January 2022	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	March 2017	Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	August 2001	
<b>Planning Hazardous Substance Enforcements</b> Caerphilly County Borough Council - Planning Department Rhondda Cynon Taff County Borough Council - Planning Department Vale Of Glamorgan County Borough Council - Planning Department Cardiff Council - Regulatory Services	February 2016 February 2016 January 2016 October 2015	Variable Variable Variable Variable
<b>Planning Hazardous Substance Consents</b> Caerphilly County Borough Council - Planning Department Rhondda Cynon Taff County Borough Council - Planning Department Vale Of Glamorgan County Borough Council - Planning Department Cardiff Council - Regulatory Services	February 2016 February 2016 January 2016 October 2015	Variable Variable Variable Variable


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

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

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

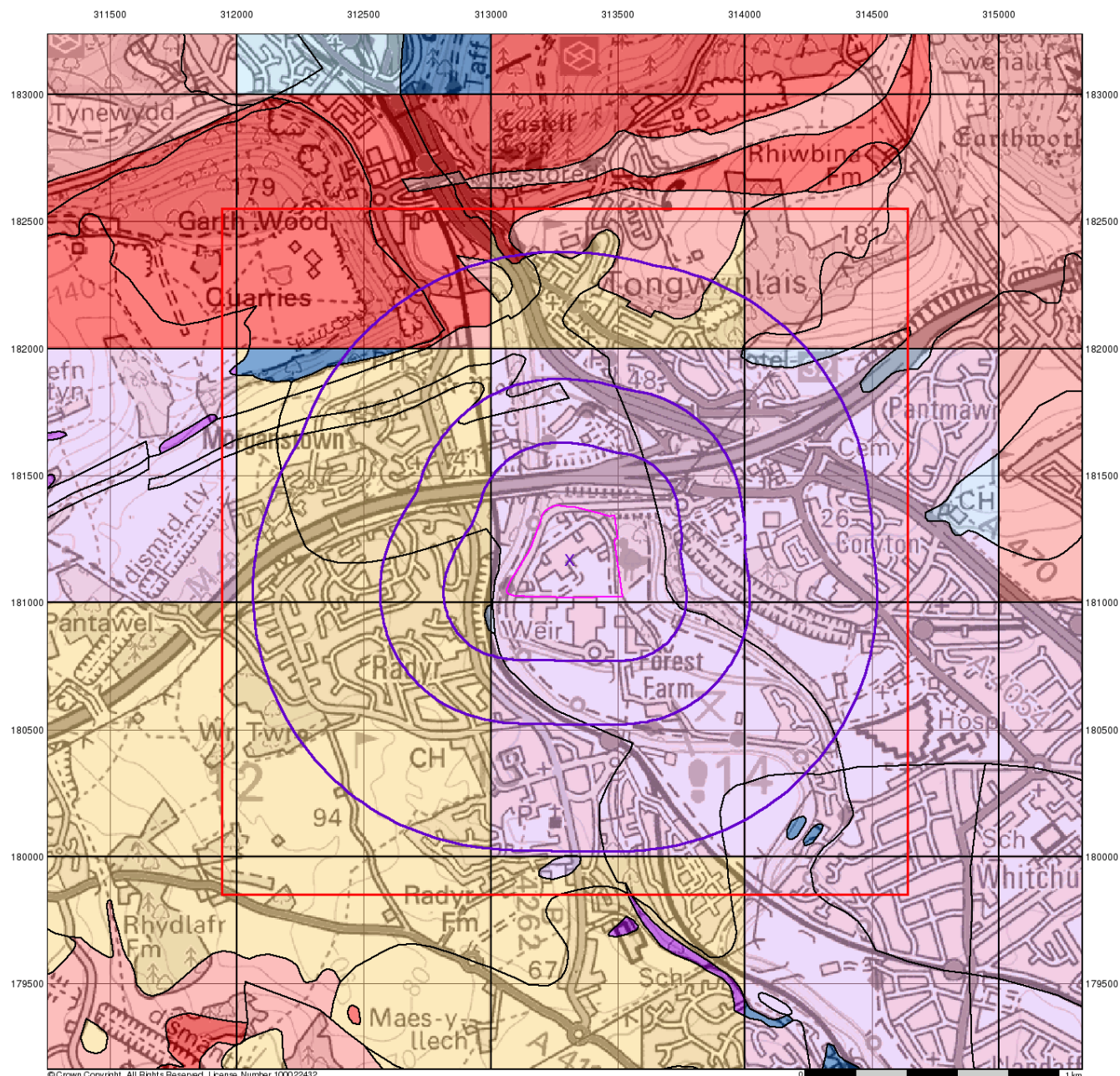


A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	<b>Natural Resources Wales</b> Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	<b>Cardiff Council - Pollution Control Division</b> Regulatory Services, City Hall, Cardiff, Mid Glamorgan, CF10 3ND	Telephone: 029 20872000 Fax: 01222 873212 Website: www.cardiff.gov.uk
4	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	<b>Ordnance Survey</b> Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	<b>Cardiff Council</b> County Hall, Atlantic Wharf, Cardiff, Mid Glamorgan, CF1 5UW	Telephone: 029 2087 2000 Fax: 029 2087 3212 Website: www.cardiff.gov.uk
7	<b>Health and Safety Executive</b> 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
8	<b>The Coal Authority - Property Searches</b> 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
9	<b>Stantec UK Ltd</b> Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
10	<b>PointX</b> 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> 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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## Groundwater Vulnerability

### General

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

### Agency and Hydrological

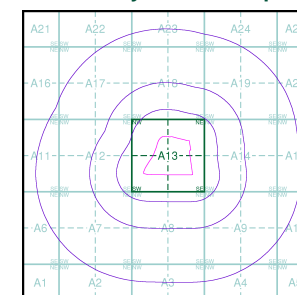
#### Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer
- Unproductive Aquifer
- Soluble Rock

#### Superficial Aquifers

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

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
 Customer Ref: 21-712  
 National Grid Reference: 313310, 181170  
 Slice: A  
 Site Area (Ha): 12.33  
 Search Buffer (m): 1000

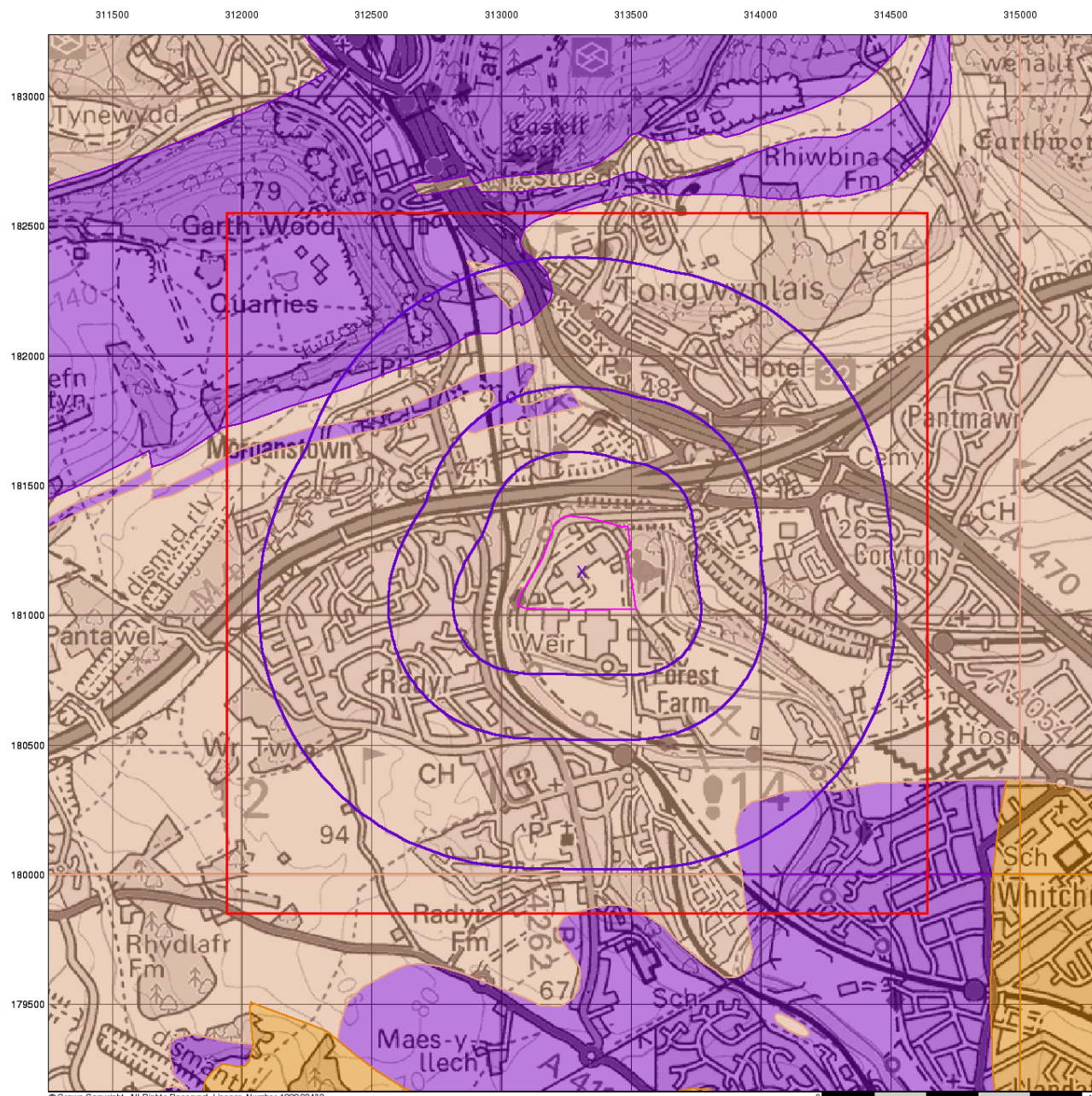
### Site Details

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0 1 km



## Bedrock Aquifer Designation

### General

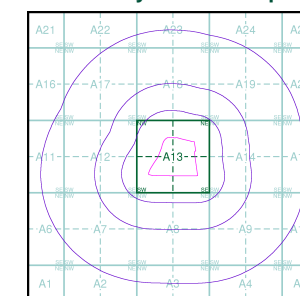
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

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

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
 Customer Ref: 21-712  
 National Grid Reference: 313310, 181170  
 Slice: A  
 Site Area (Ha): 12.33  
 Search Buffer (m): 1000

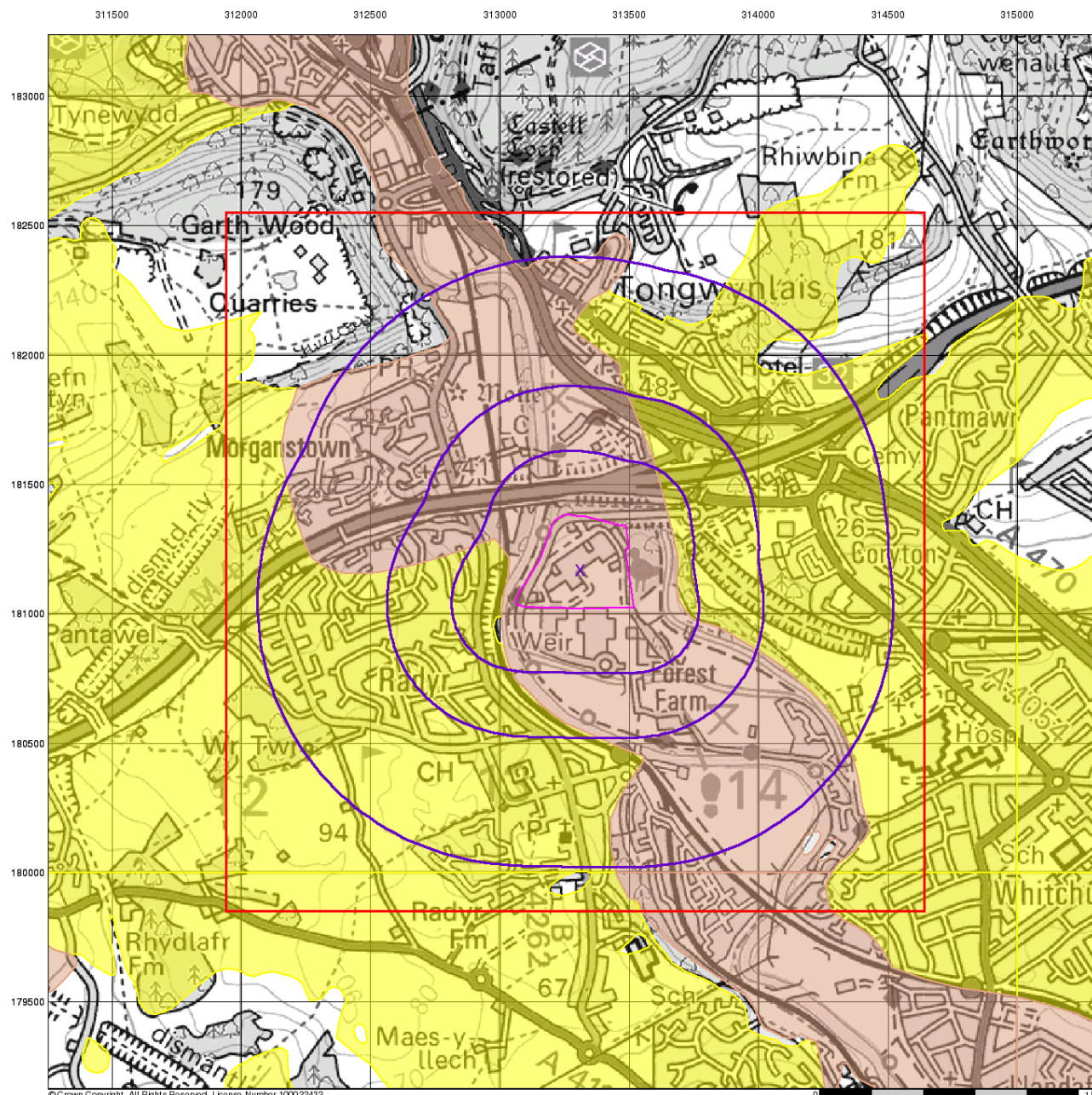
### Site Details

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## Superficial Aquifer Designation

### General

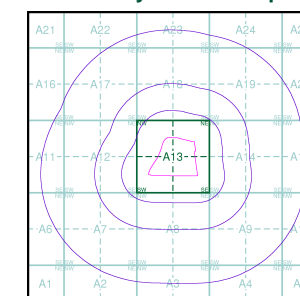
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

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

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
 Customer Ref: 21-712  
 National Grid Reference: 313310, 181170  
 Slice: A  
 Site Area (Ha): 12.33  
 Search Buffer (m): 1000

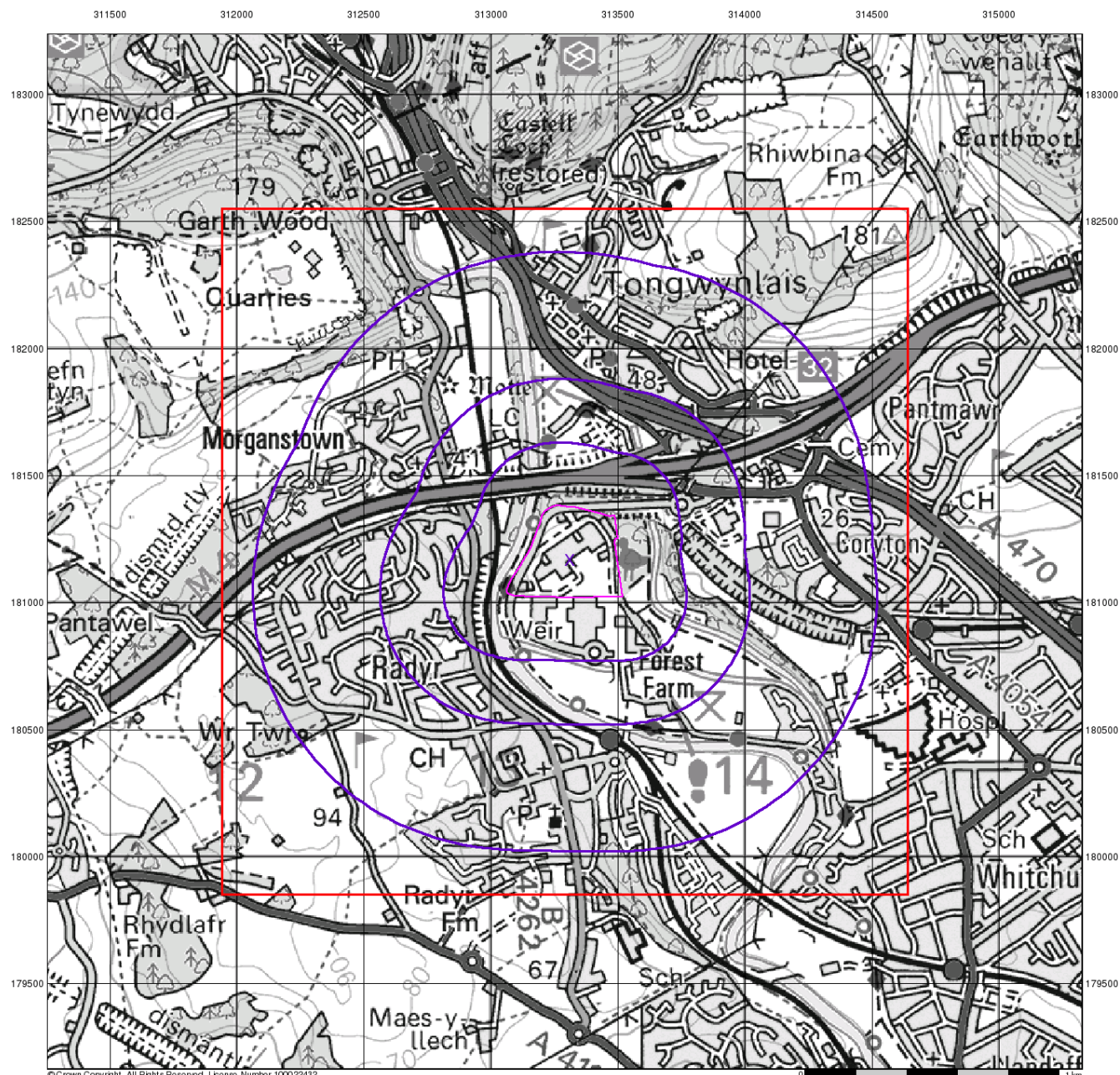
### Site Details

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## Source Protection Zones

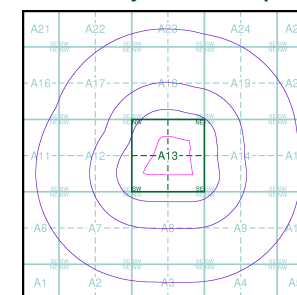
### General

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

### Agency and Hydrological

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

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
 Customer Ref: 21-712  
 National Grid Reference: 313310, 181170  
 Slice: A  
 Site Area (Ha): 12.33  
 Search Buffer (m): 1000

### Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU

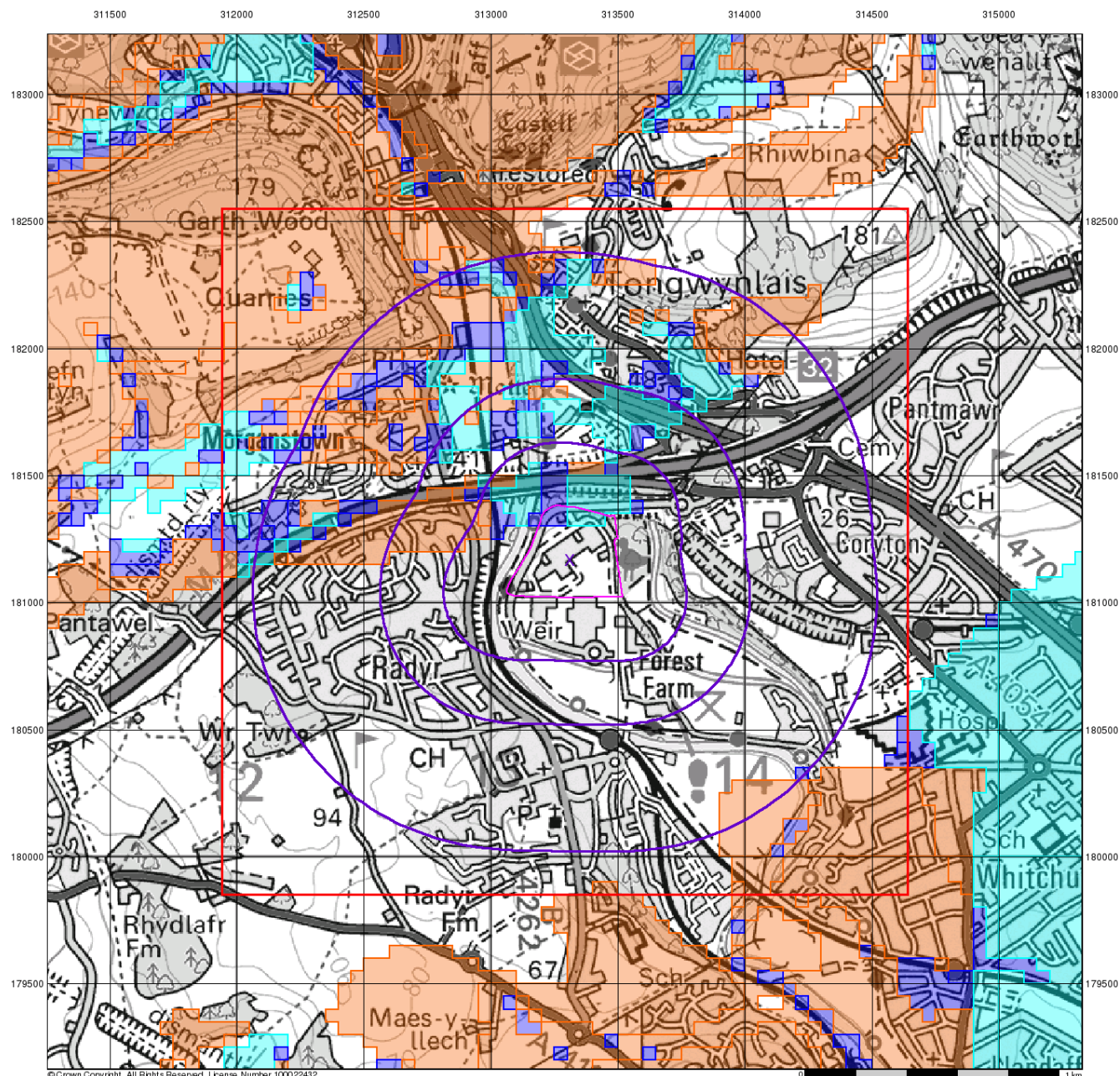
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## BGS Flood GFS Data

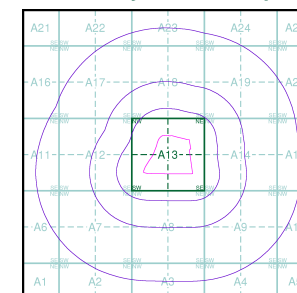
### General

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

### Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

## Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
 Customer Ref: 21-712  
 National Grid Reference: 313310, 181170  
 Slice: A  
 Site Area (Ha): 12.33  
 Search Buffer (m): 1000

### Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU

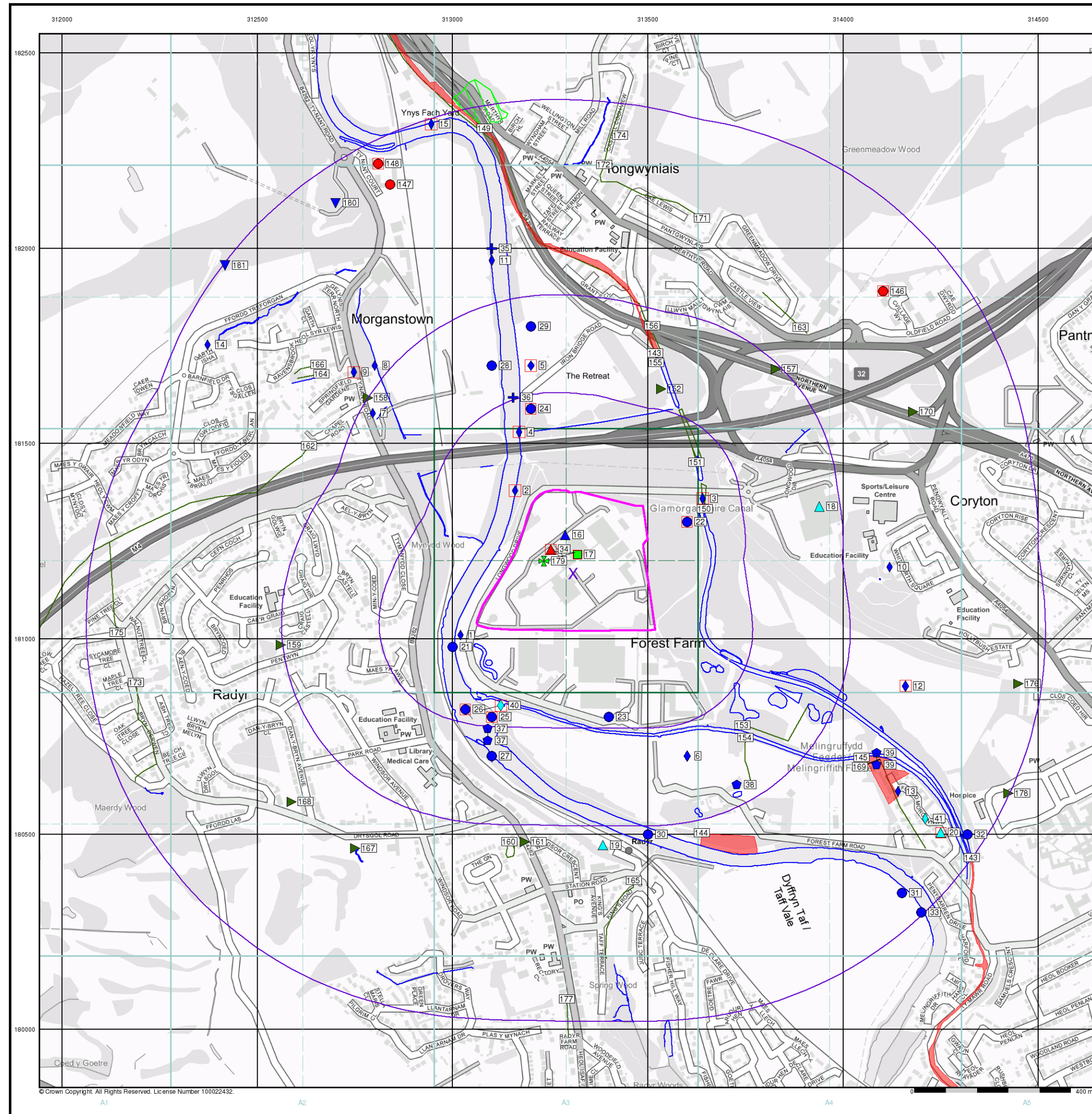
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### General

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

### Agency and Hydrological

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

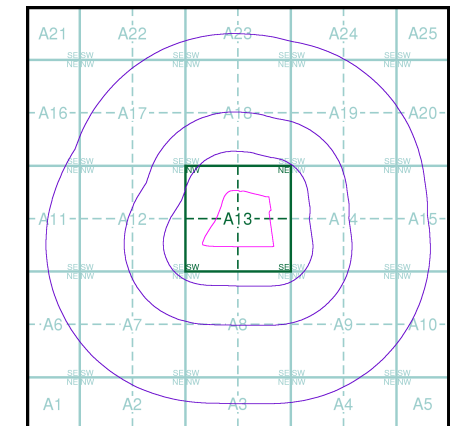
### Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site
- BGS Recorded Landfill Site (Location)
- 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
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- 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

### Geological

- BGS Recorded Mineral Site

### Site Sensitivity Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

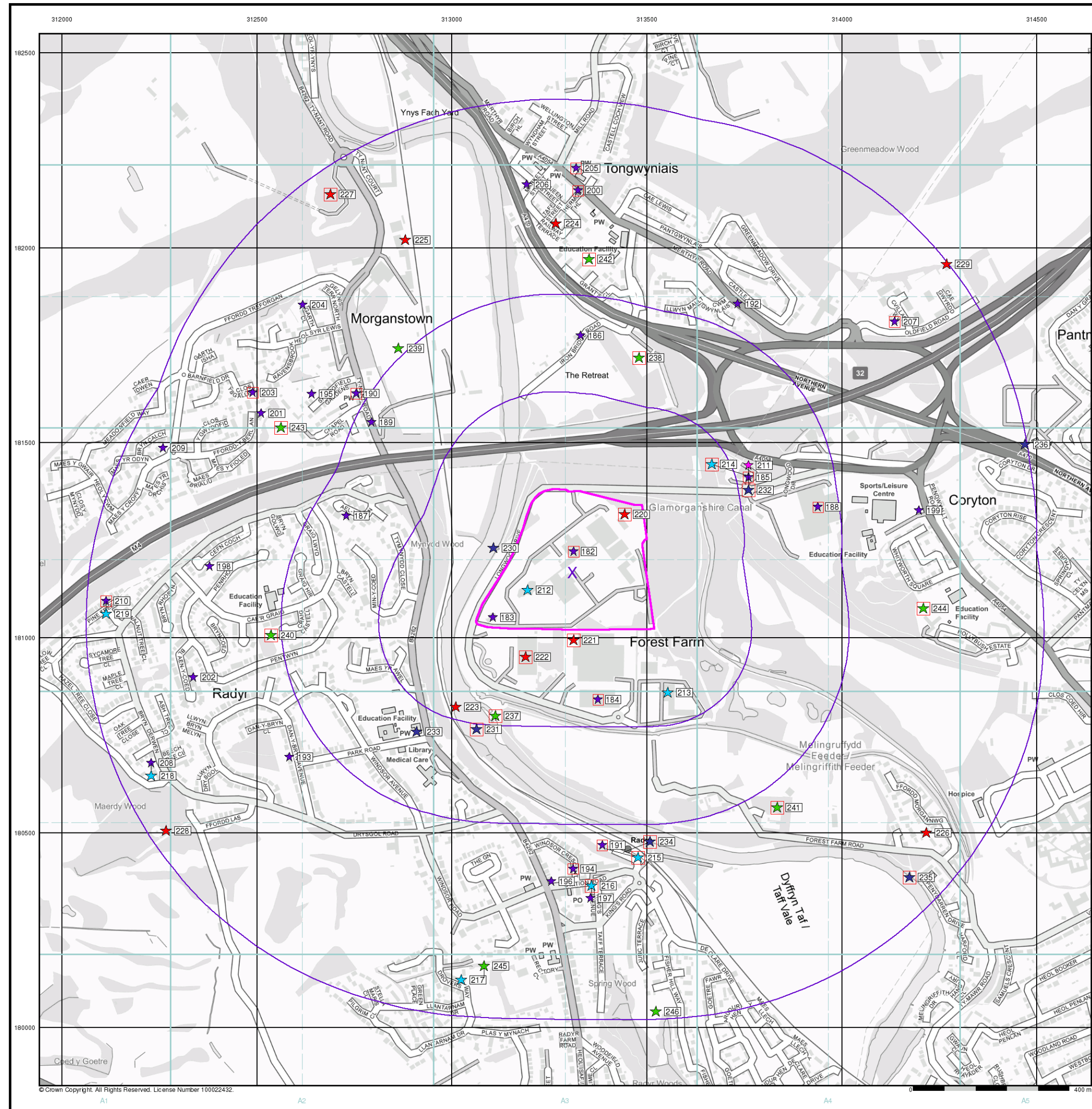
### Site Details

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## Industrial Land Use Map

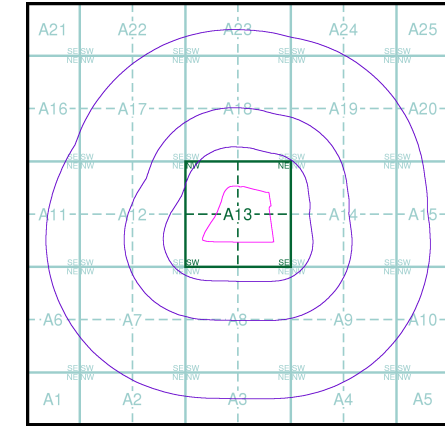
### General

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

### Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

### Industrial Land Use Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

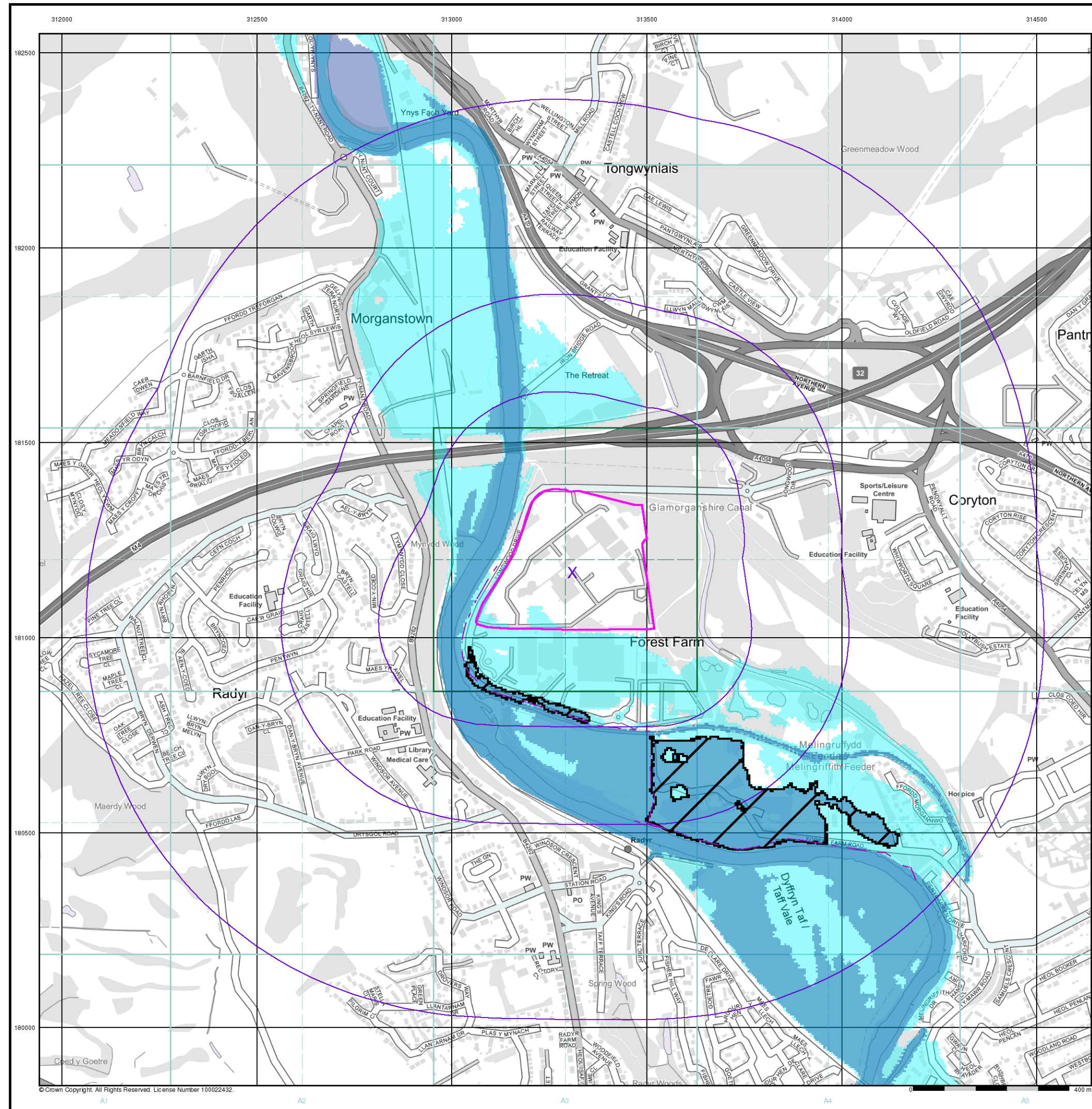
### Site Details

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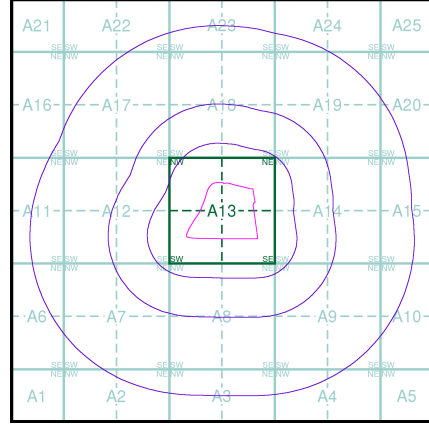
**General**

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

**Agency and Hydrological (Flood)**

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

**Flood Map - Slice A**



**Order Details**

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

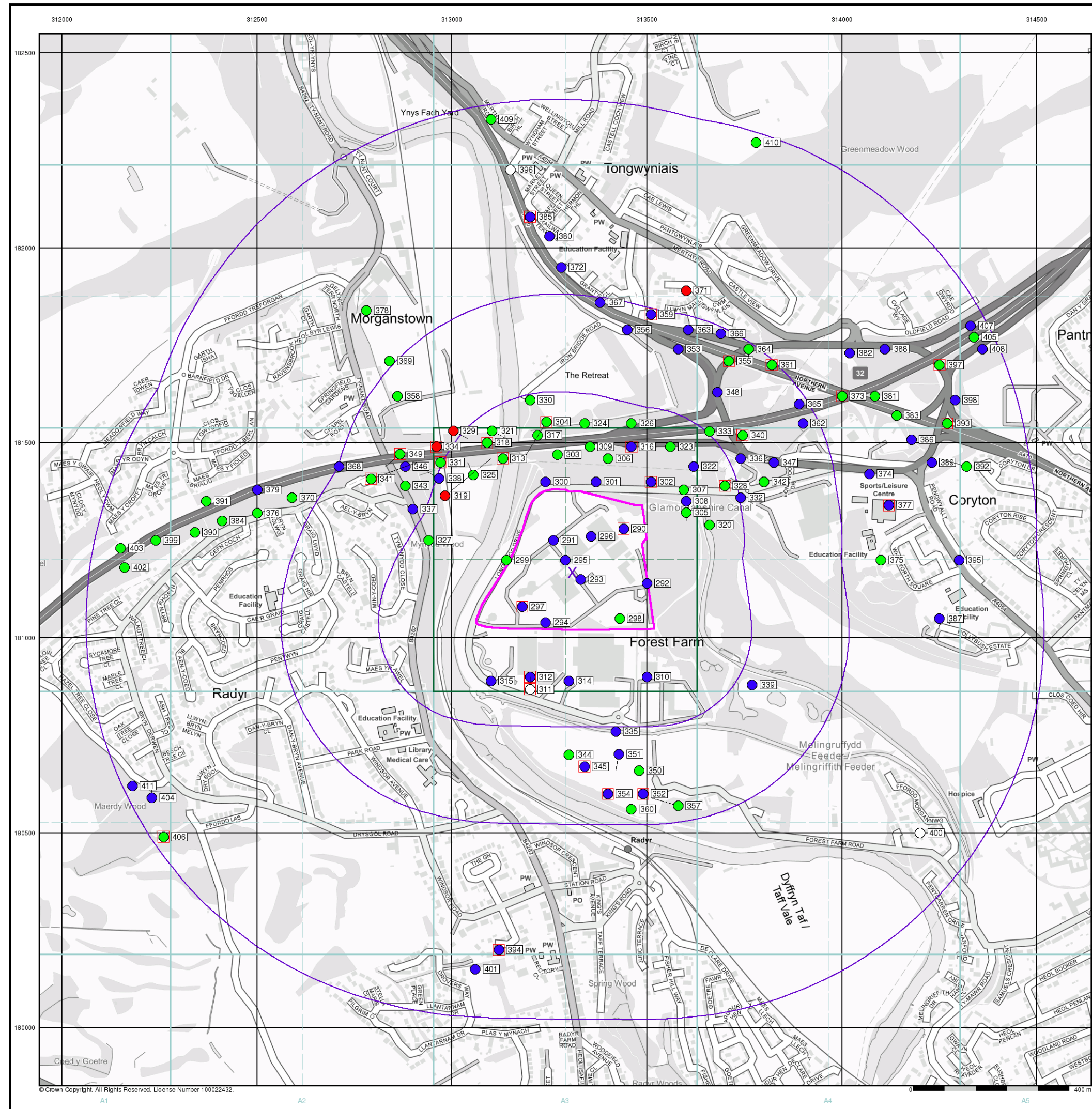
**Site Details**

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**General**

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

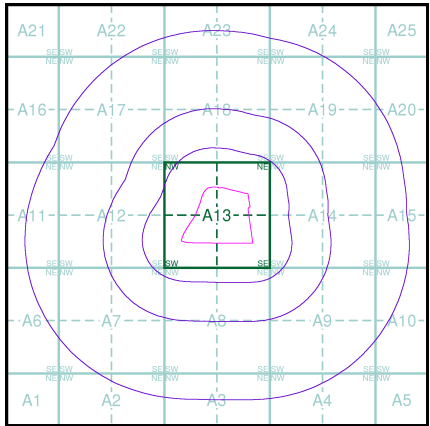
**Agency and Hydrological (Boreholes)**

- 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](http://www.envirocheck.co.uk).

**Borehole Map - Slice A**



**Order Details**

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

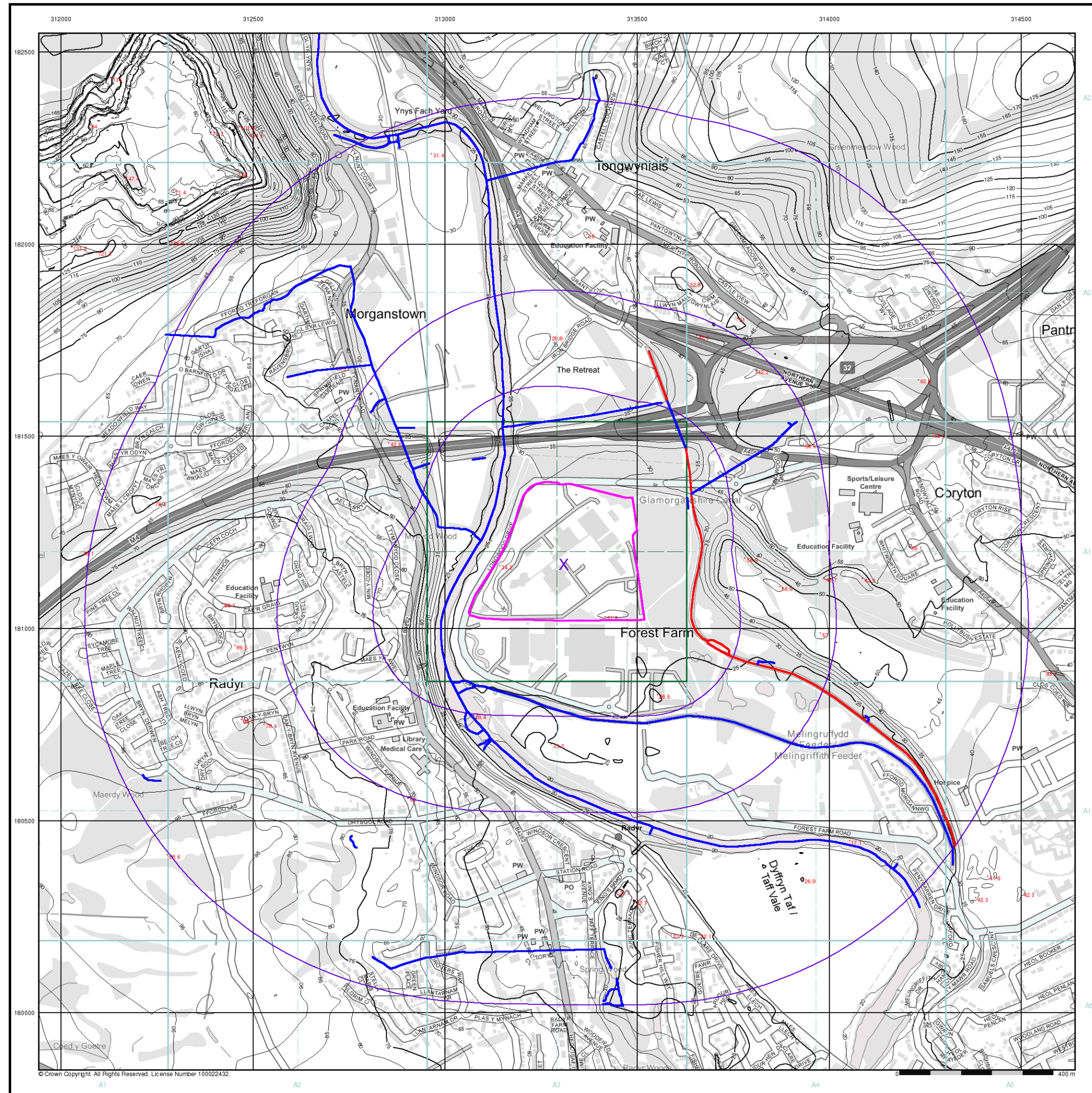
**Site Details**

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Fax: 0844 844 9951  
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### General

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

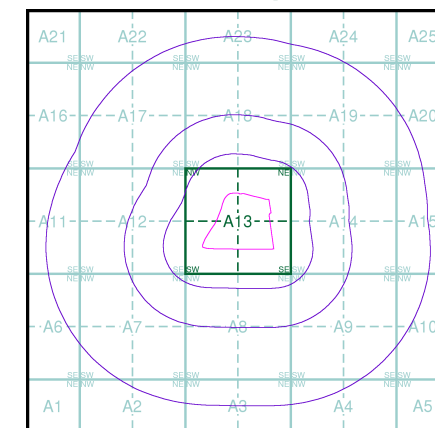
### OS Water Network Data

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

### Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour 105 100 95
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

### OS Water Network Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

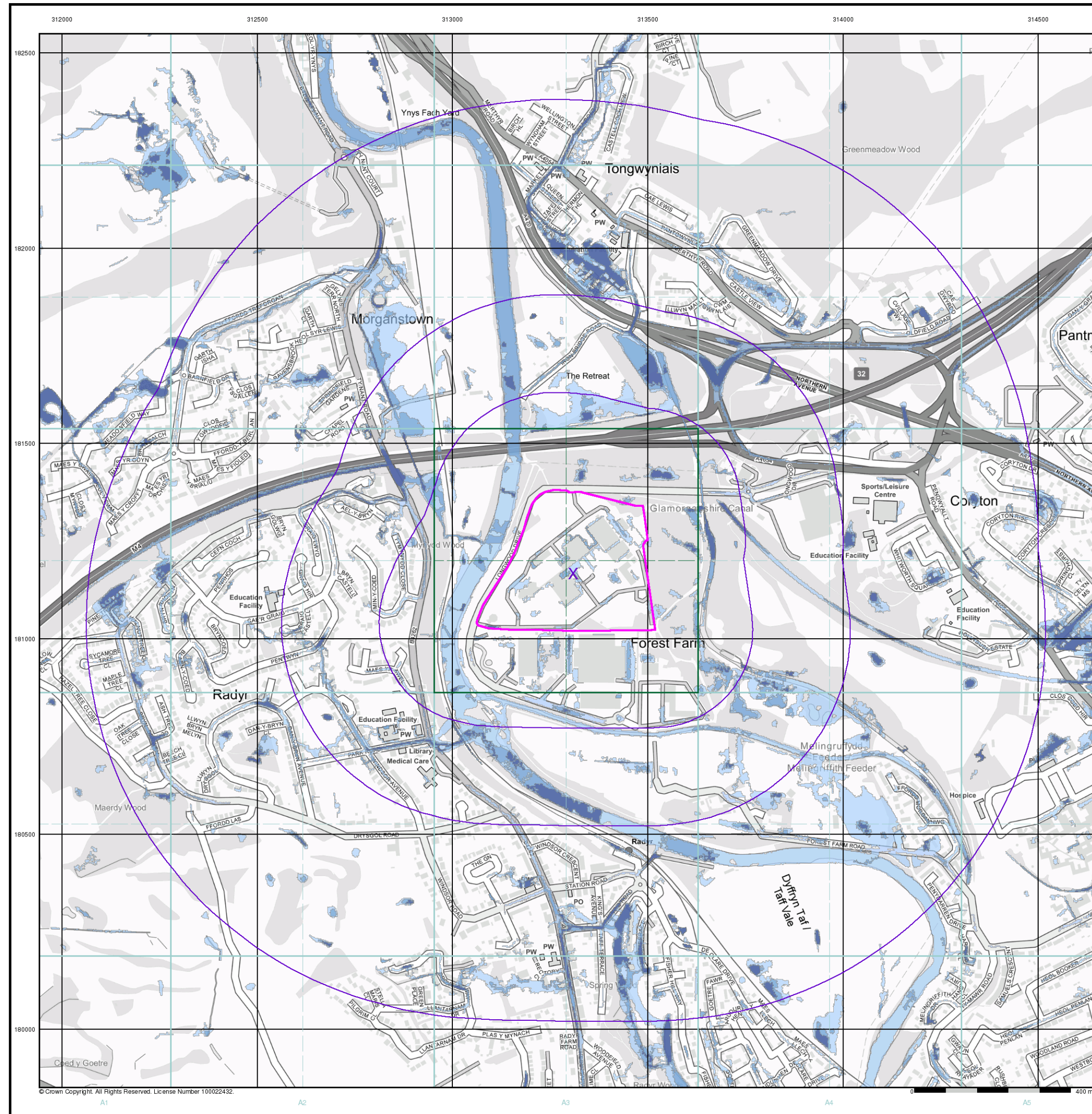
### Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
CARDIFF, CF14 7YU

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### General

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

### Risk of Flooding from Surface Water

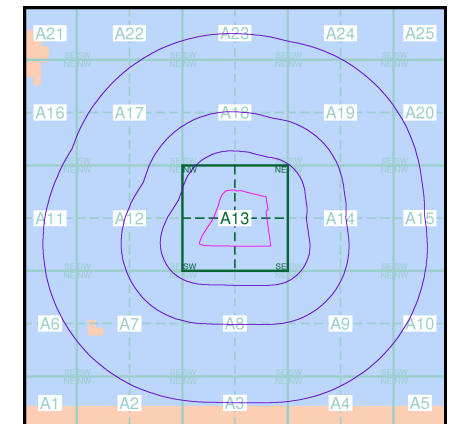
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

### Suitability

See the suitability map below

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

### EANRW Suitability Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

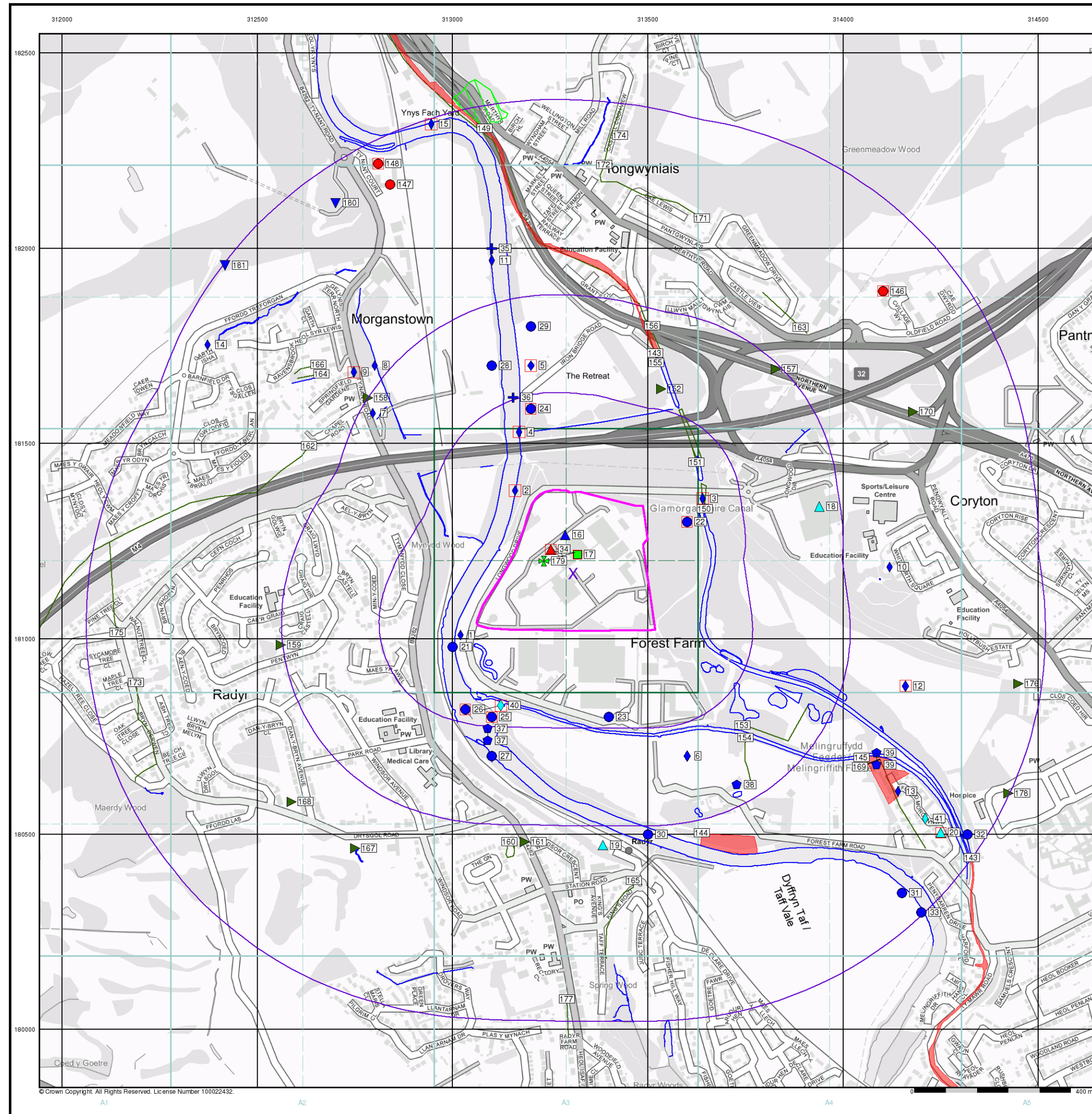
### Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU

**Landmark**  
INFORMATION GROUP

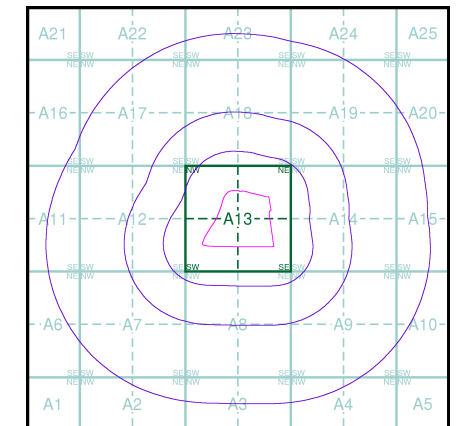
Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





- 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
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NIHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
  - BGS Recorded Mineral Site
- 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
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
  - 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

### Site Sensitivity Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

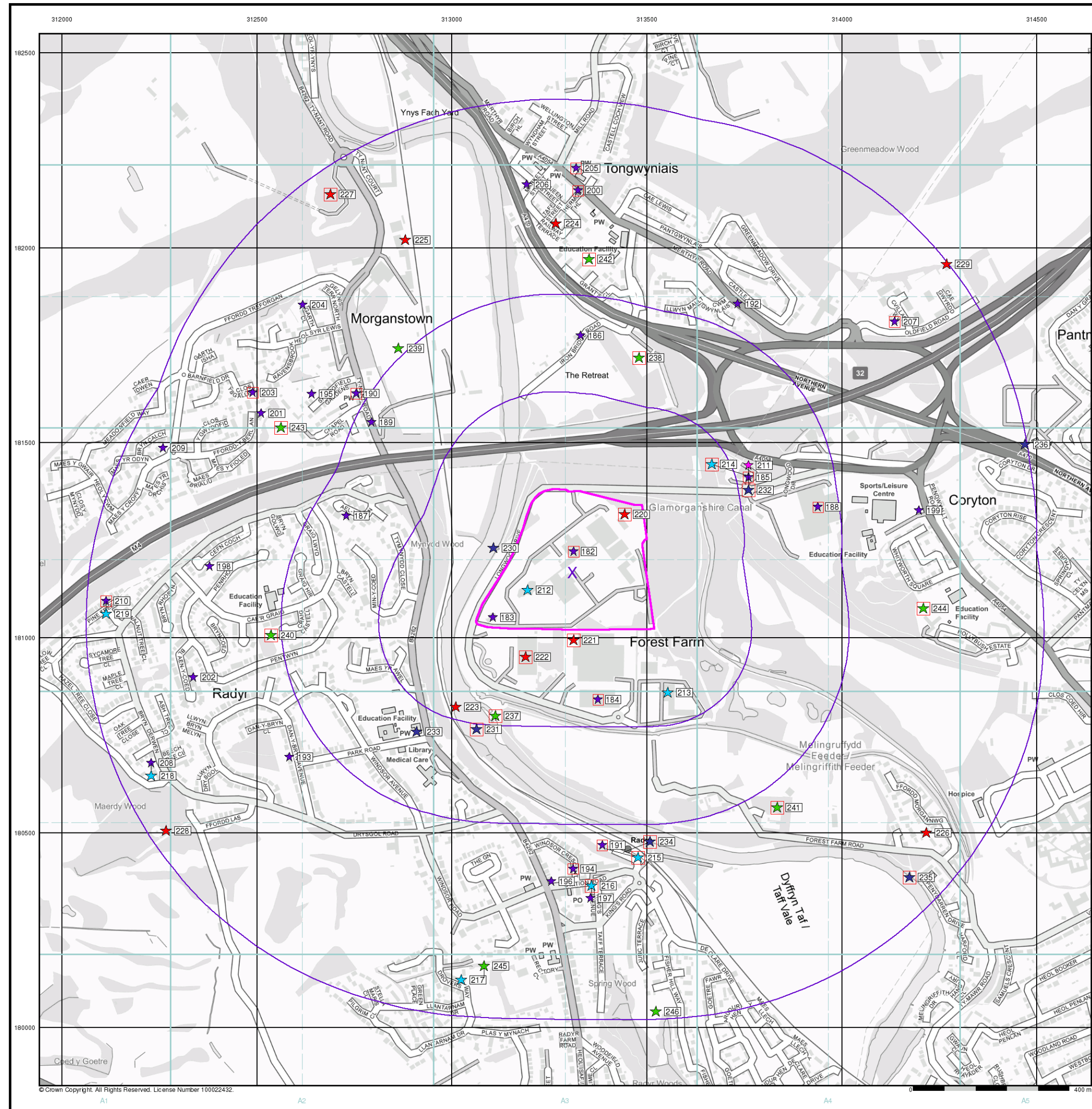
### Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU

**Landmark**  
INFORMATION GROUP

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## Industrial Land Use Map

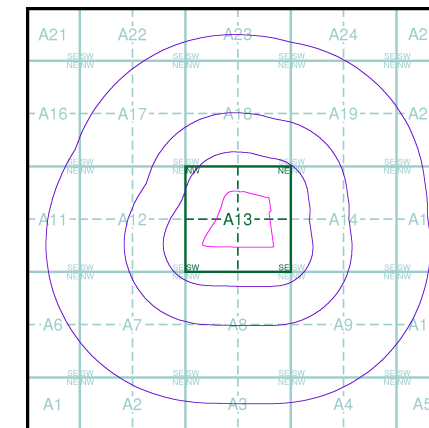
### General

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

### Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

### Industrial Land Use Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

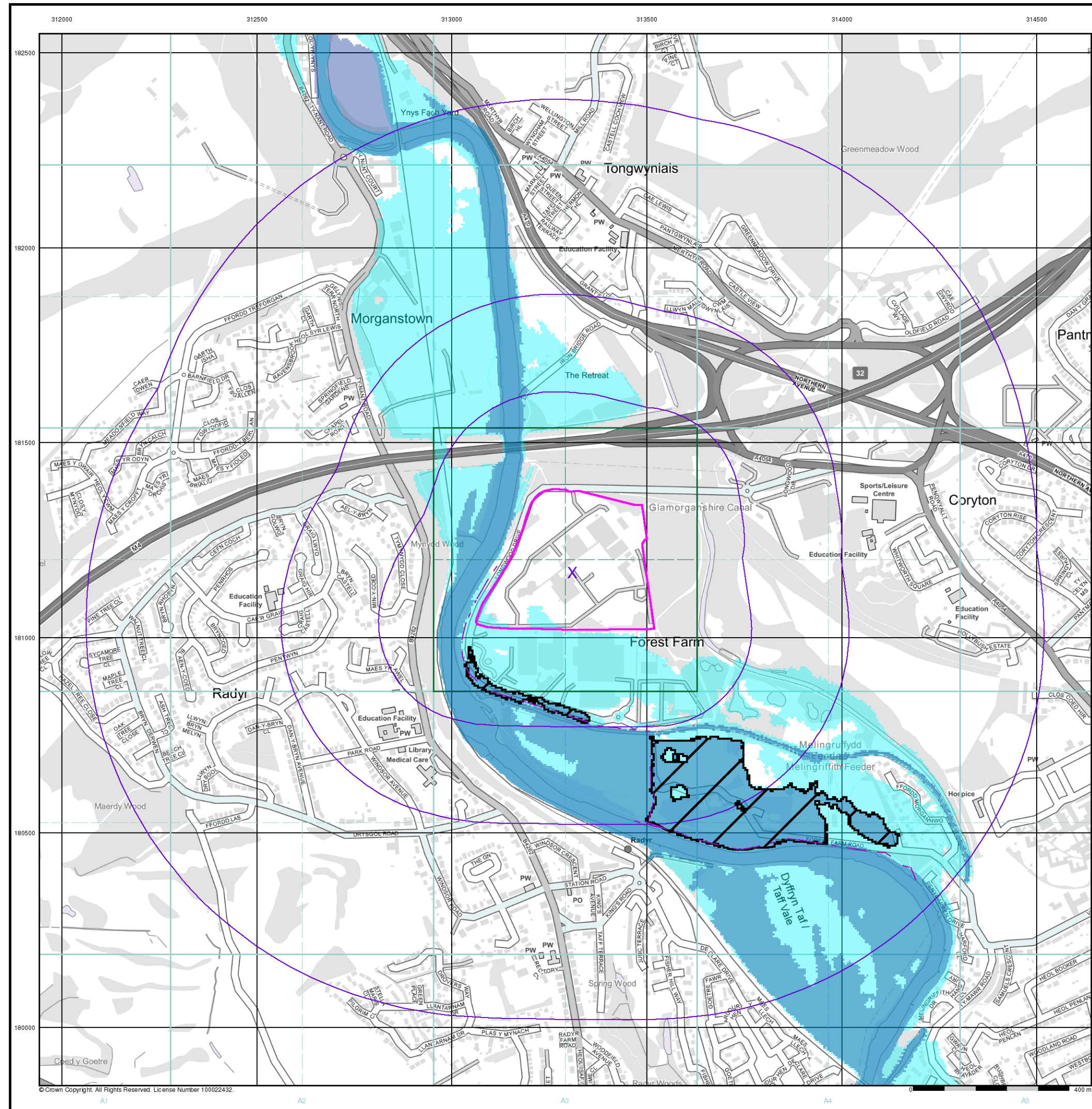
### Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
CARDIFF, CF14 7YU

**Landmark**  
INFORMATION GROUP

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Fax: 0844 844 9951  
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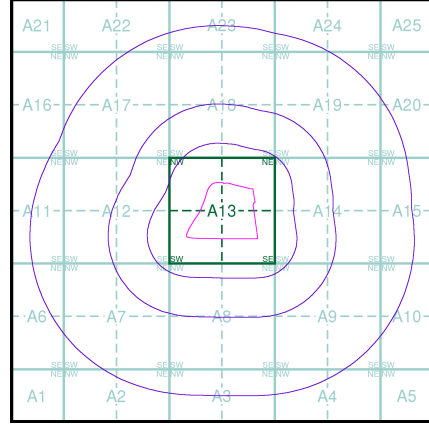
**General**

- 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: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

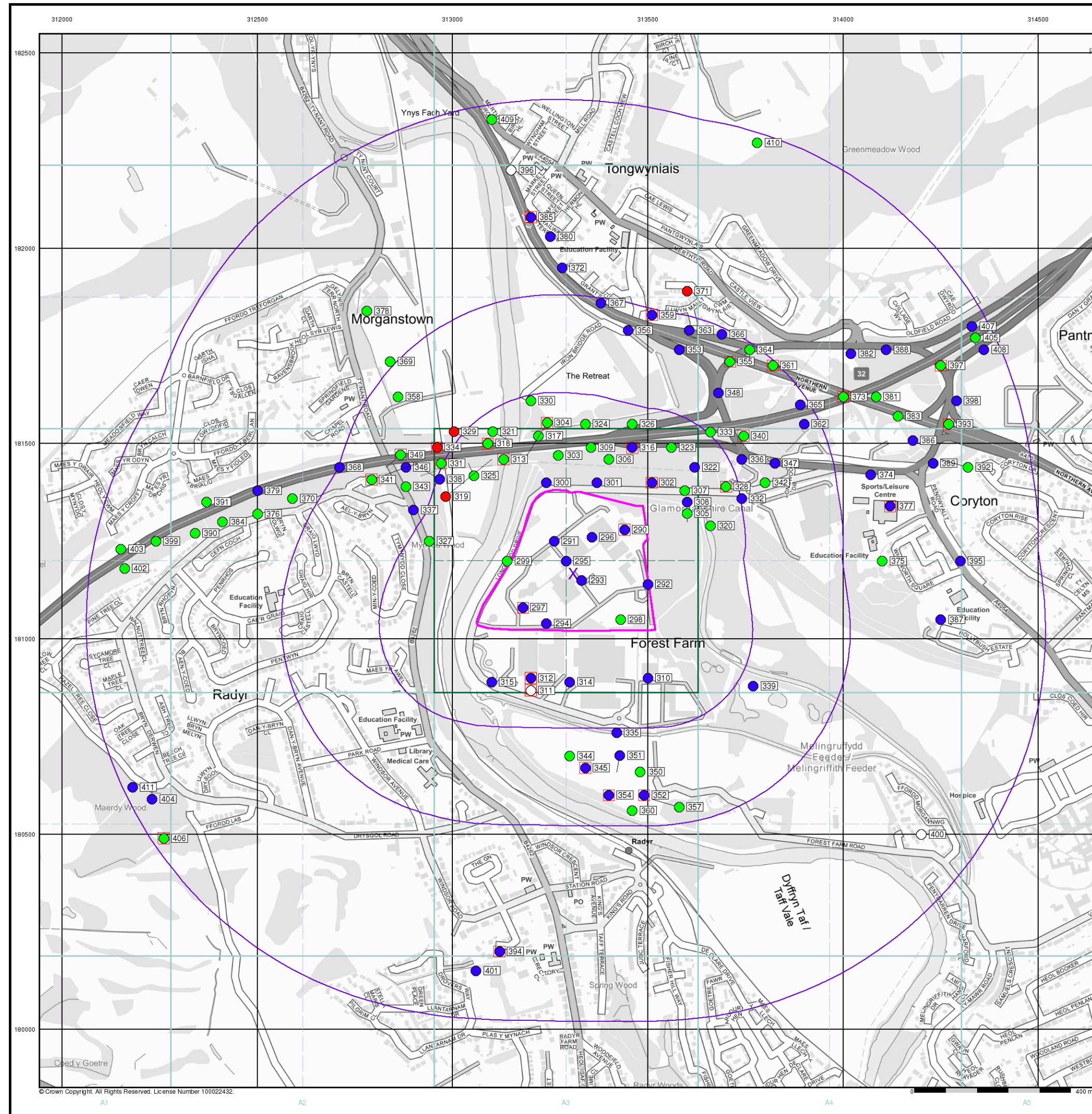
**Site Details**

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU



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





**General**

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

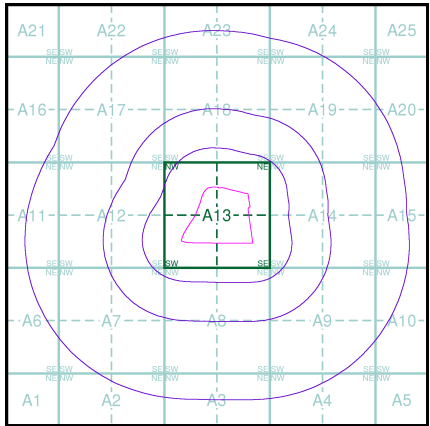
**Agency and Hydrological (Boreholes)**

- 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](http://www.envirocheck.co.uk).

**Borehole Map - Slice A**



**Order Details**

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

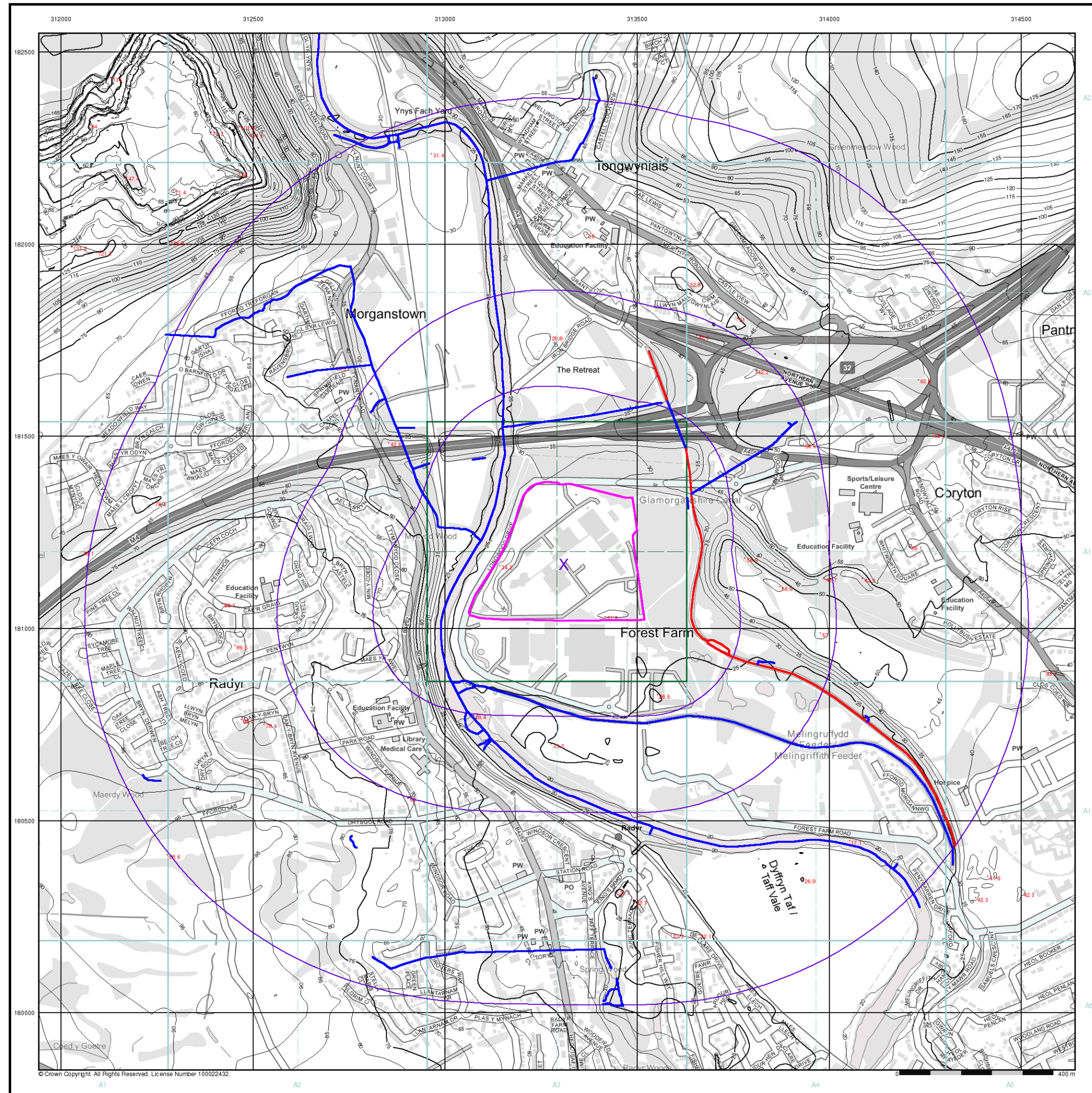
**Site Details**

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



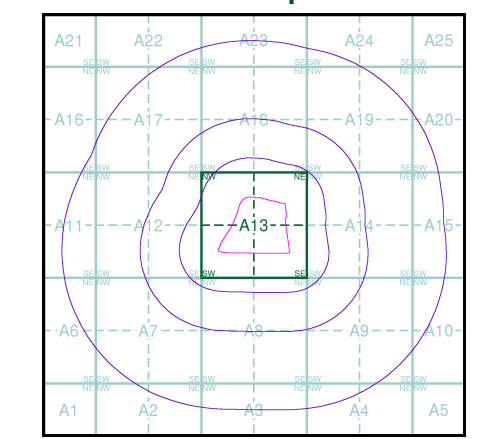


- General**
- Specified Site
  - Specified Buffer(s)
  - Bearing Reference Point

- OS Water Network Data**
- |              |                         |
|--------------|-------------------------|
| Canal        | Drain                   |
| Reservoir    | Other                   |
| Foreshore    | Lake                    |
| Marsh        | Transfer                |
| Tidal River  | Lock Or Flight Of Locks |
| Inland River | Sea                     |

- Contours (height in meters)**
- Standard Contour 105 100 95
- Master Contour 105 100 95
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

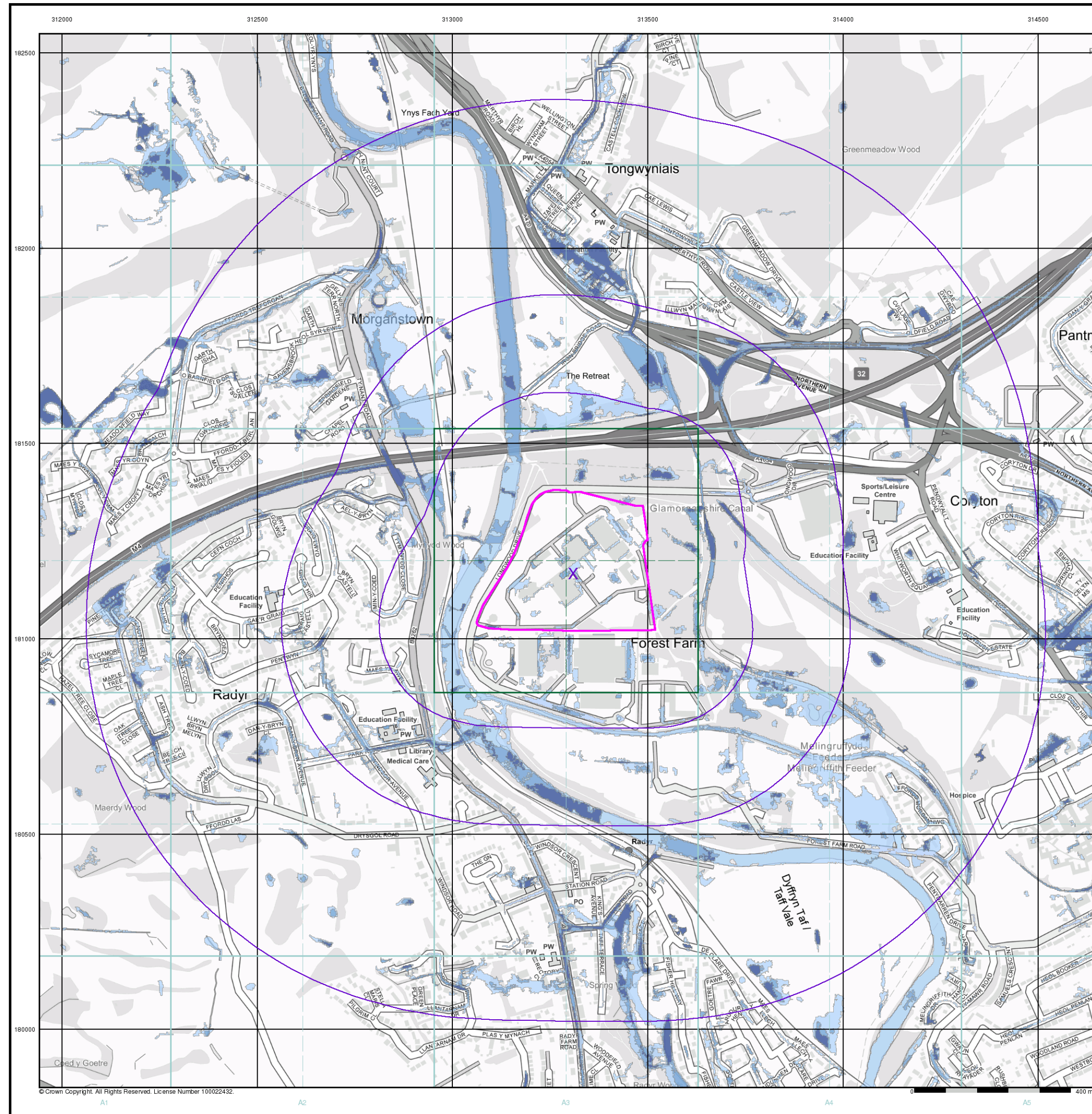
### OS Water Network Map - Slice A



- Order Details**
- Order Number: 294881209\_1\_1
- Customer Ref: 21-712
- National Grid Reference: 313310, 181170
- Slice: A
- Site Area (Ha): 12.33
- Search Buffer (m): 1000

- Site Details**
- Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU





### General

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

### Risk of Flooding from Surface Water

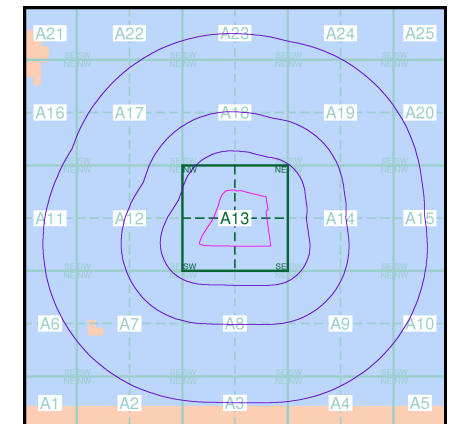
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

### Suitability

See the suitability map below

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

### EANRW Suitability Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

### Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
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**Landmark**  
INFORMATION GROUP

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Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





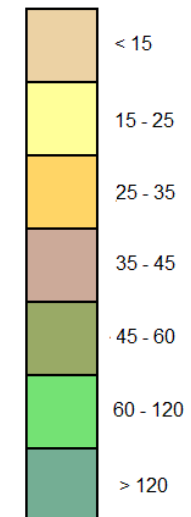
## General

- Specified Site Specified Buffer(s) Bearing Reference Point

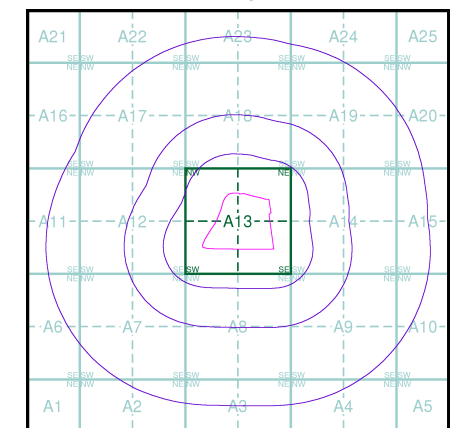
## Urban Soil Chemistry Arsenic

- BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Arsenic Concentrations mg/kg



## Urban Soil Chemistry Arsenic - Slice A



## Order Details

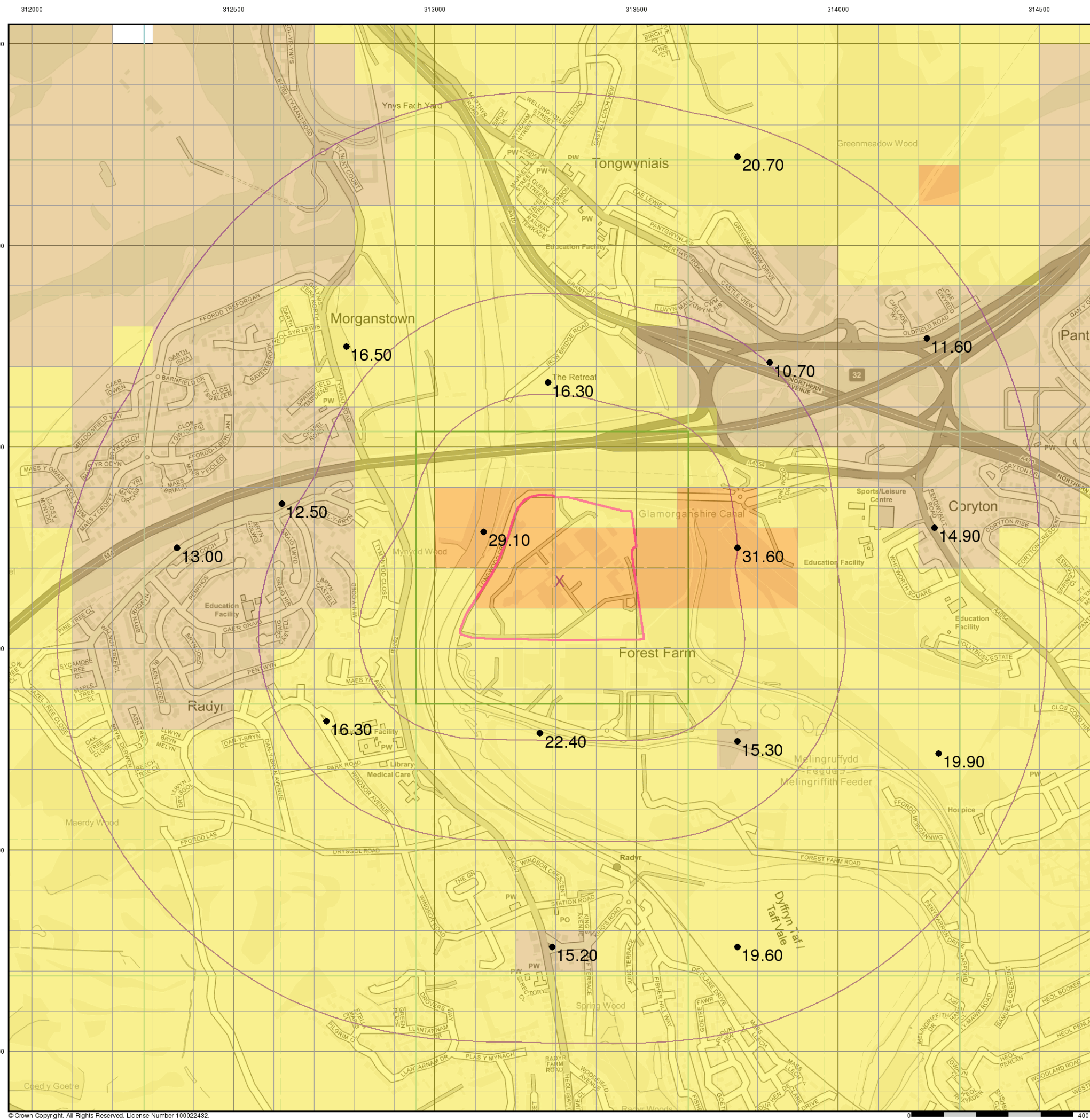
Order Details: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search buffer (m): 1000

## Site Details

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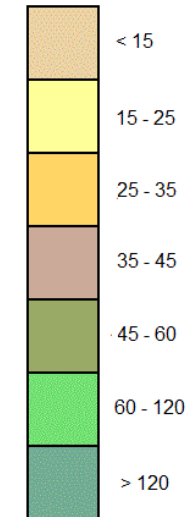


## General

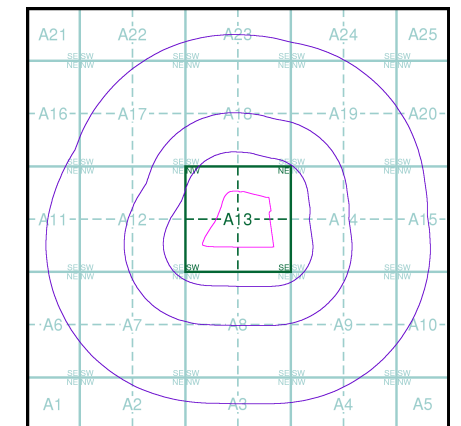
Specified Site Specified Buffer(s) Bearing Reference Point

## Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



## Estimated Soil Chemistry Arsenic - Slice A



## Order Details

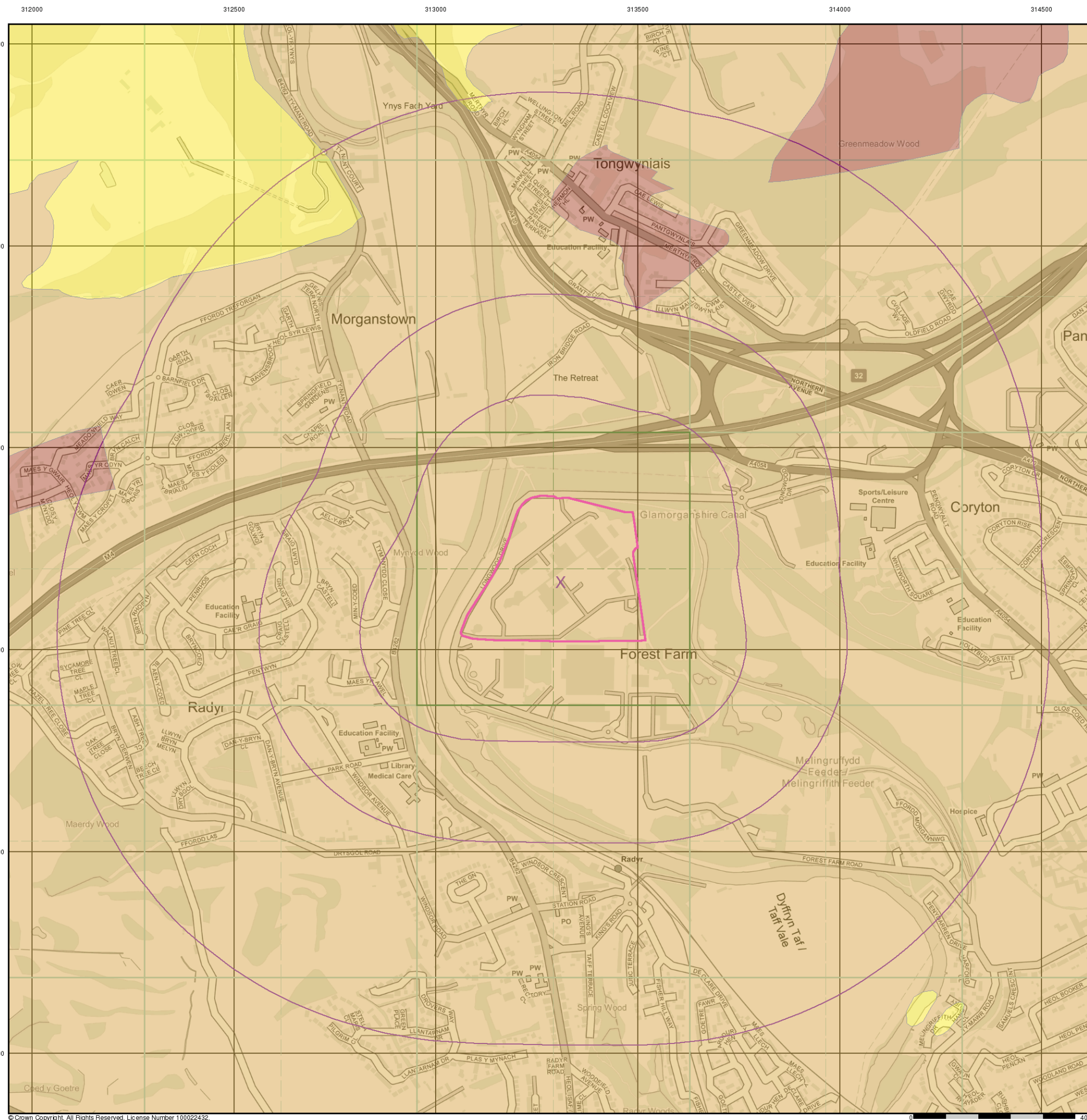
Order Details: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search buffer (m): 1000

## Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
CARDIFF, CF14 7YU



Tel: 0844 844 9952  
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Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)







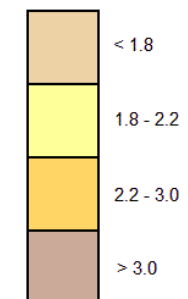
## General

Specified Site Specified Buffer(s) Bearing Reference Point

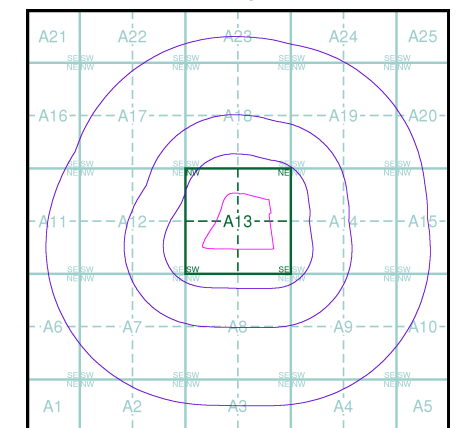
## Urban Soil Chemistry Cadmium

BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Cadmium Concentrations mg/kg



## Urban Soil Chemistry Cadmium - Slice A



## Order Details

Order Details: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search buffer (m): 1000

## Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU

**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



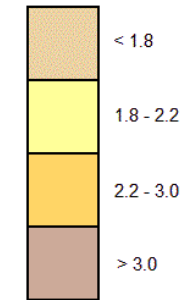


## General

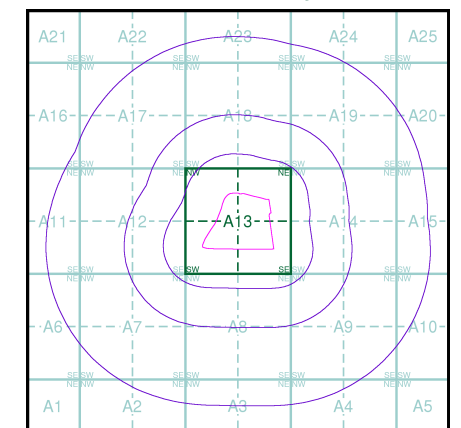
Specified Site Specified Buffer(s) Bearing Reference Point

## Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



## Estimated Soil Chemistry Cadmium - Slice A



## Order Details

Order Details: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search buffer (m): 1000

## Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
CARDIFF, CF14 7YU

**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





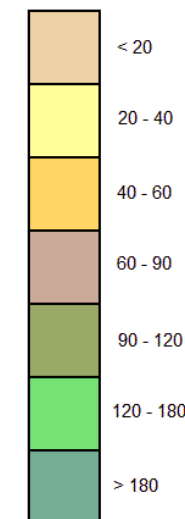
## General

Specified Site Specified Buffer(s) Bearing Reference Point

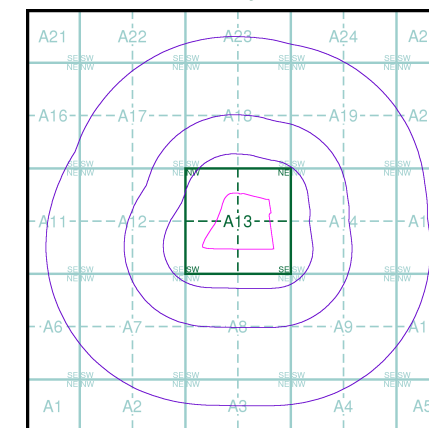
## Urban Soil Chemistry Chromium

BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Chromium Concentrations mg/kg



## Urban Soil Chemistry Chromium - Slice A



## Order Details

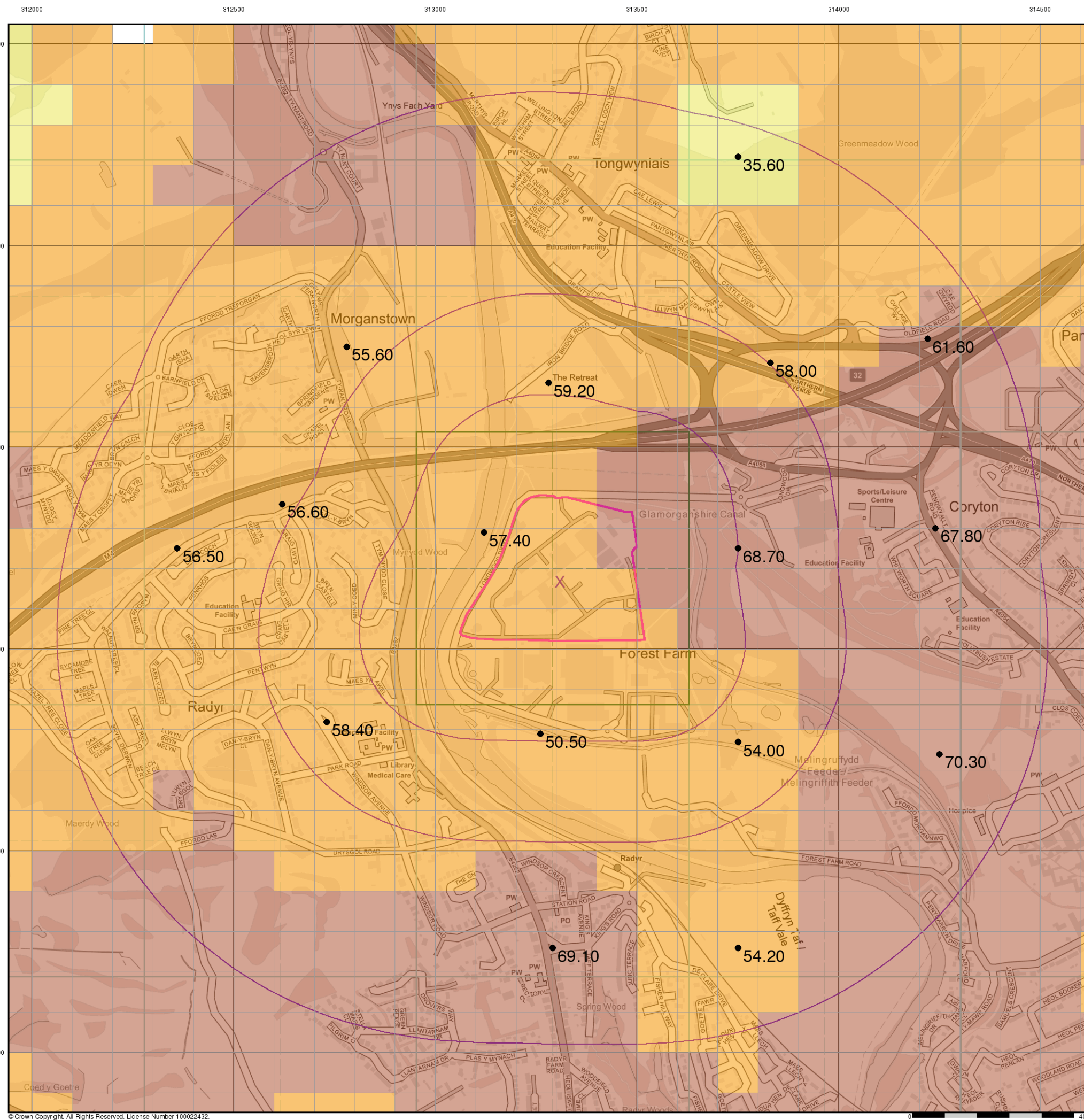
Order Details: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search buffer (m): 1000

## Site Details

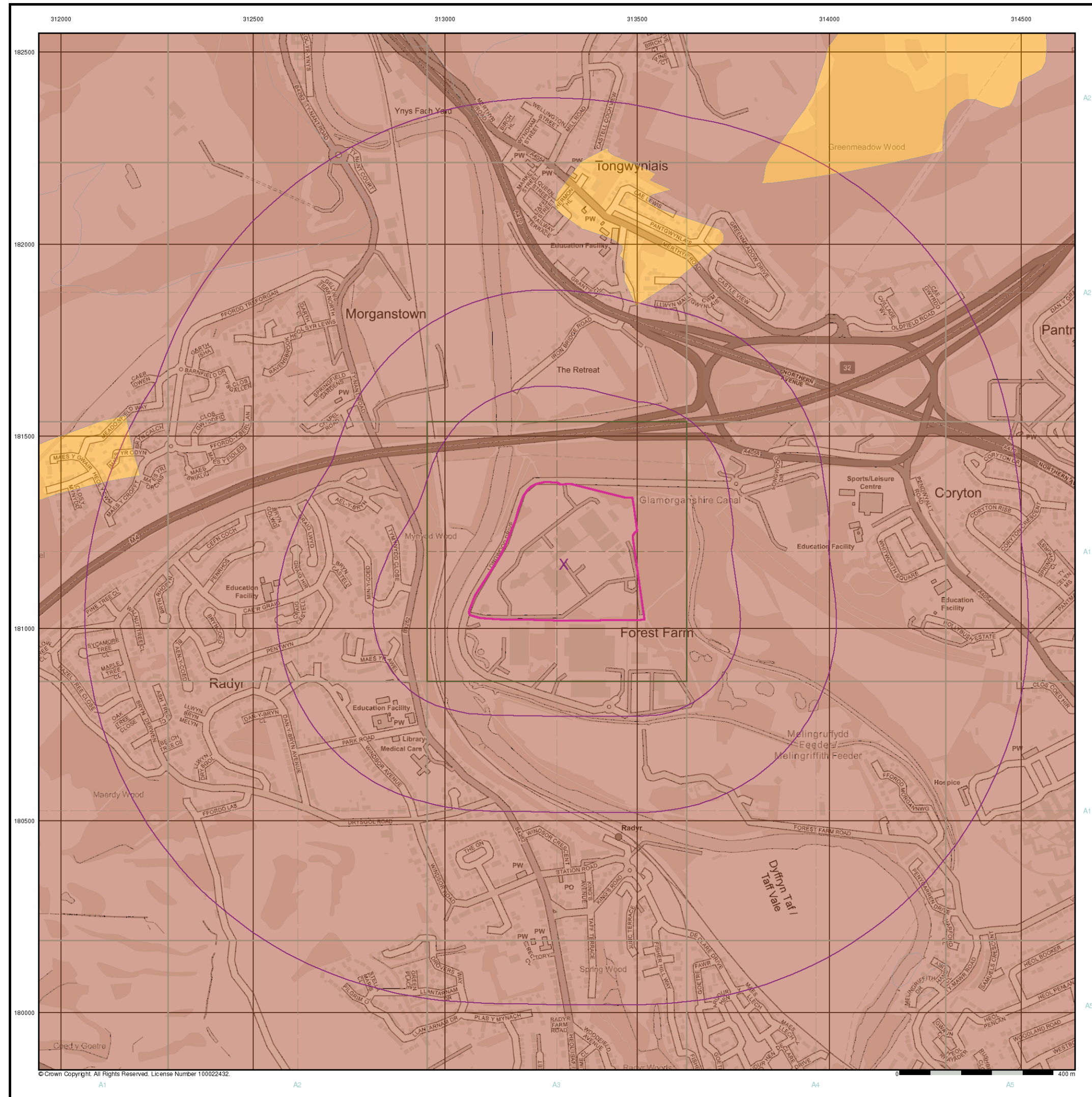
Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
CARDIFF, CF14 7YU

Landmark®  
INFORMATION GROUP

Tel: 0844 844 9952  
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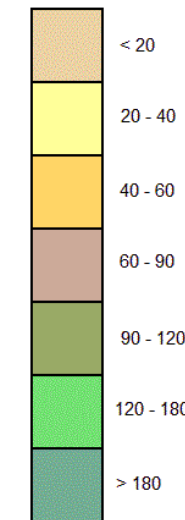


### General

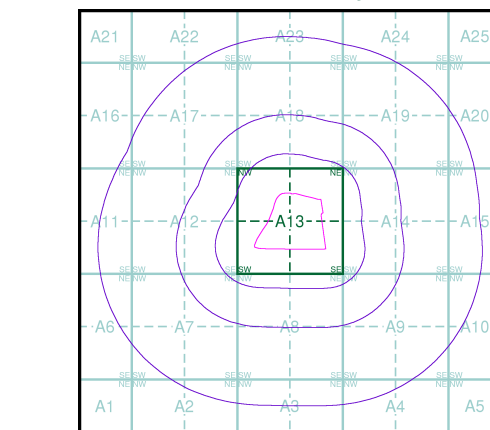
Specified Site Specified Buffer(s) Bearing Reference Point

### Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



### Estimated Soil Chemistry Chromium - Slice A



### Order Details

Order Details: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search buffer (m): 1000

### Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU



Tel: 0844 844 9952  
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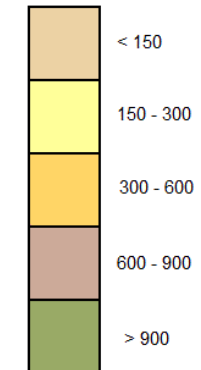
## General

Specified Site Specified Buffer(s) Bearing Reference Point

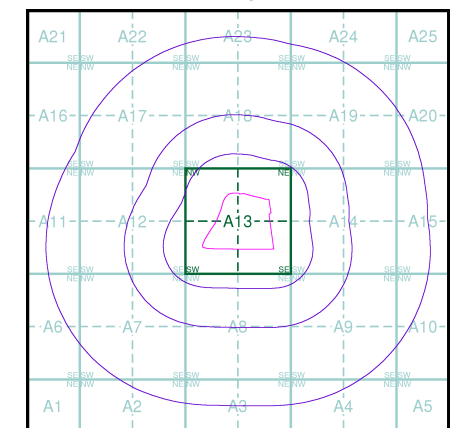
## Urban Soil Chemistry Lead

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Lead Concentrations mg/kg



## Urban Soil Chemistry Lead - Slice A



## Order Details

Order Details: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search buffer (m): 1000

## Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
CARDIFF, CF14 7YU

**Landmark**  
INFORMATION GROUP

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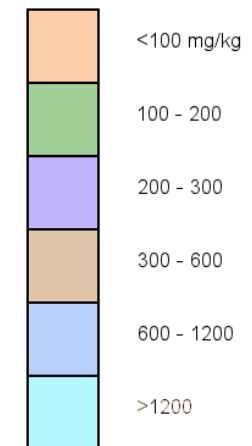


## General

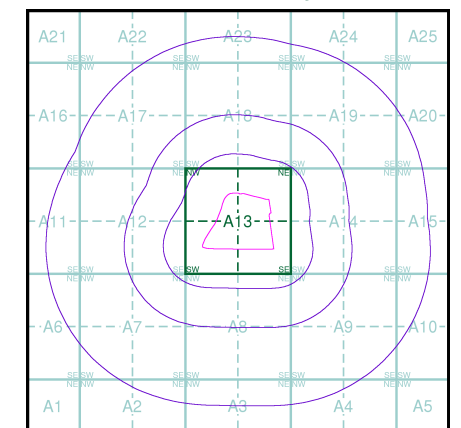
Specified Site Specified Buffer(s) Bearing Reference Point

## Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



## Estimated Soil Chemistry Lead - Slice A



## Order Details

Order Details: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search buffer (m): 1000

## Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
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**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
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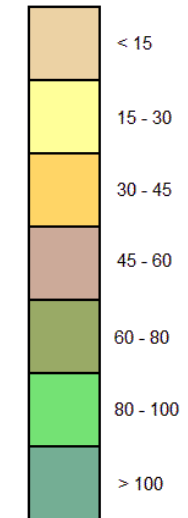
## General

Specified Site Specified Buffer(s) Bearing Reference Point

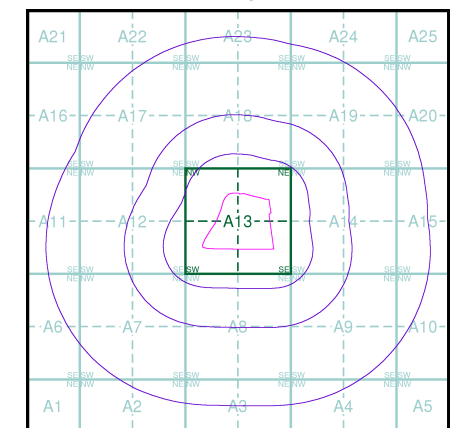
## Urban Soil Chemistry Nickel

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Nickel Concentrations mg/kg



## Urban Soil Chemistry Nickel - Slice A



## Order Details

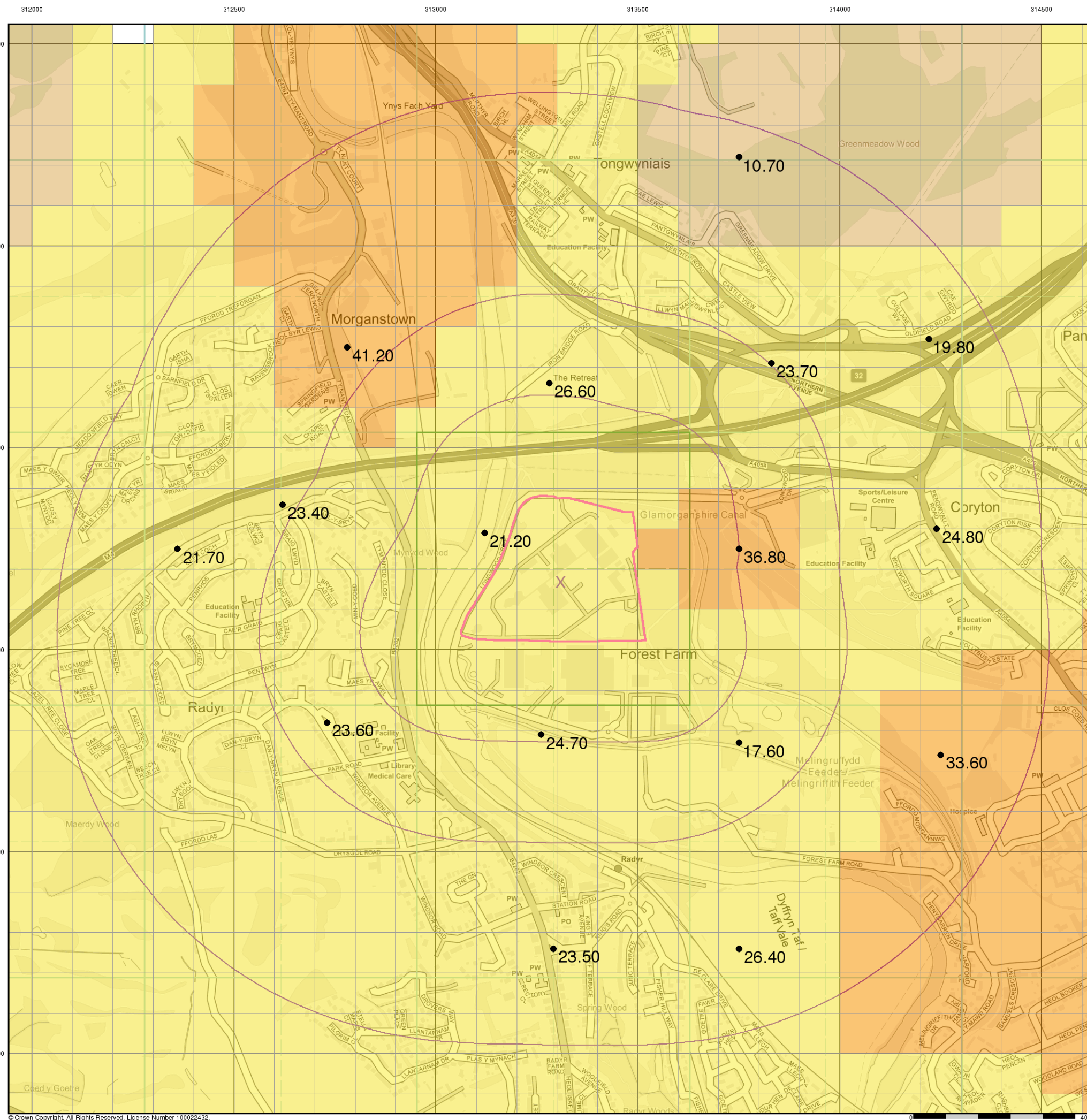
Order Details: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search buffer (m): 1000

## Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
CARDIFF, CF14 7YU



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





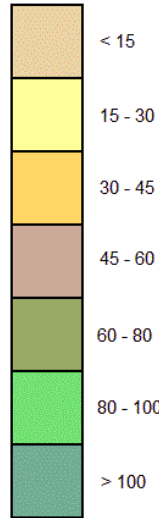


### General

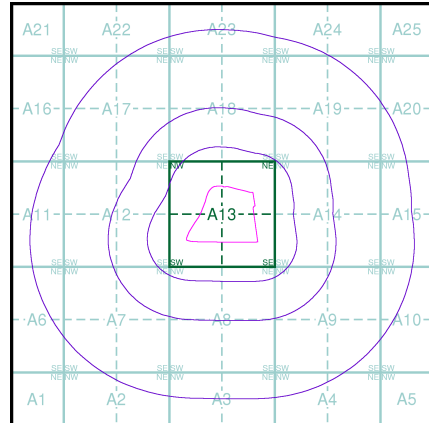
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

### Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



### Estimated Soil Chemistry Nickel - Slice A



### Order Details

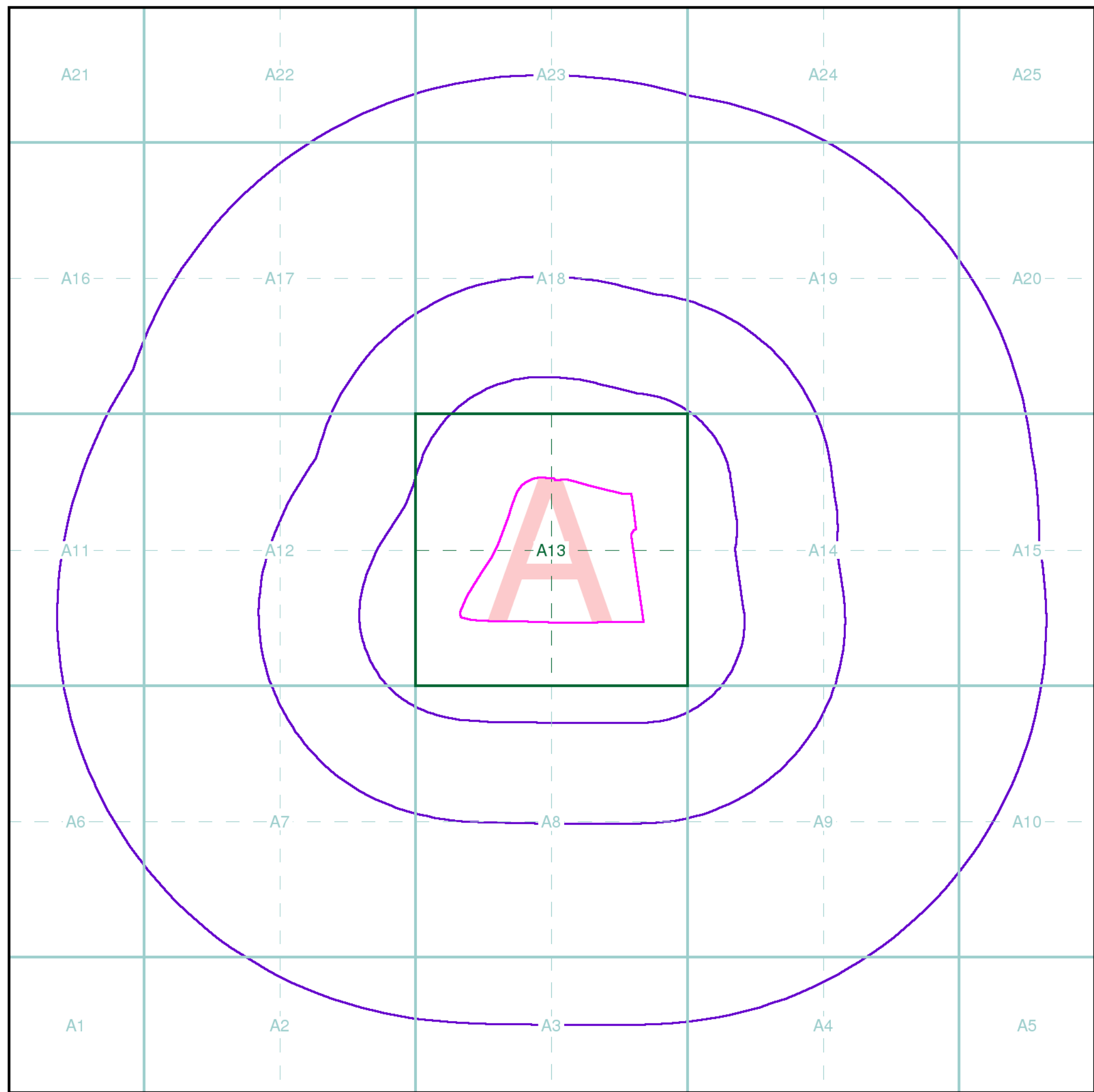
Order Details: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search buffer (m): 1000

### Site Details

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## Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

### Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

### Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

### Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

## Client Details

Mr D McGrath, Arc Environmental Ltd, Unit 1, Elliot Court, St John's Road, Meadowfield, Durham, DH7 8PN

## Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181180  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

## Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU

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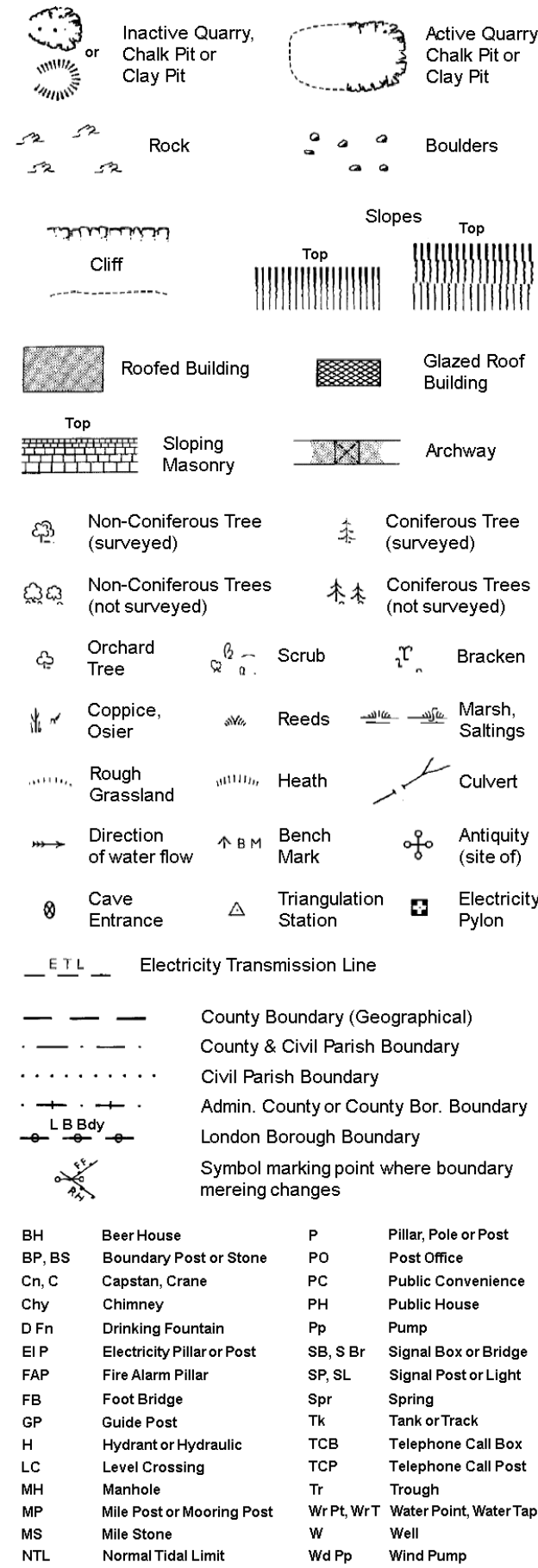


# Historical Mapping Legends

## 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



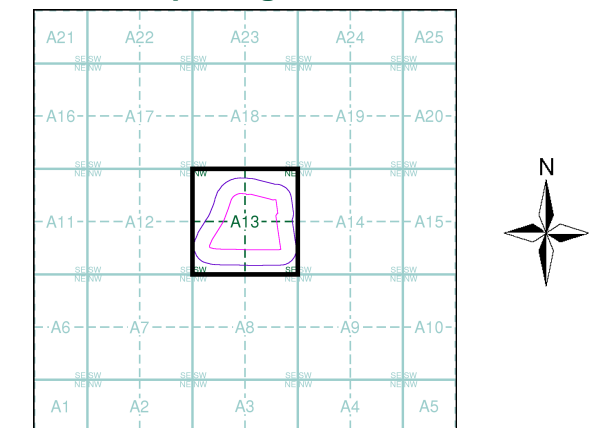
## Large-Scale National Grid Data 1:2,500 and 1:1,250



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1875	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1920	4
Glamorganshire	1:2,500	1940	5
Ordnance Survey Plan	1:2,500	1969 - 1970	6
Ordnance Survey Plan	1:2,500	1975	7
Ordnance Survey Plan	1:2,500	1982	8
Additional SIMs	1:2,500	1986 - 1989	9
Additional SIMs	1:2,500	1989	10
Additional SIMs	1:2,500	1991	11
Ordnance Survey Plan	1:2,500	1992	12
Large-Scale National Grid Data	1:2,500	1992	13
Historical Aerial Photography	1:2,500	2000	14

## Historical Map - Segment A13



## Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

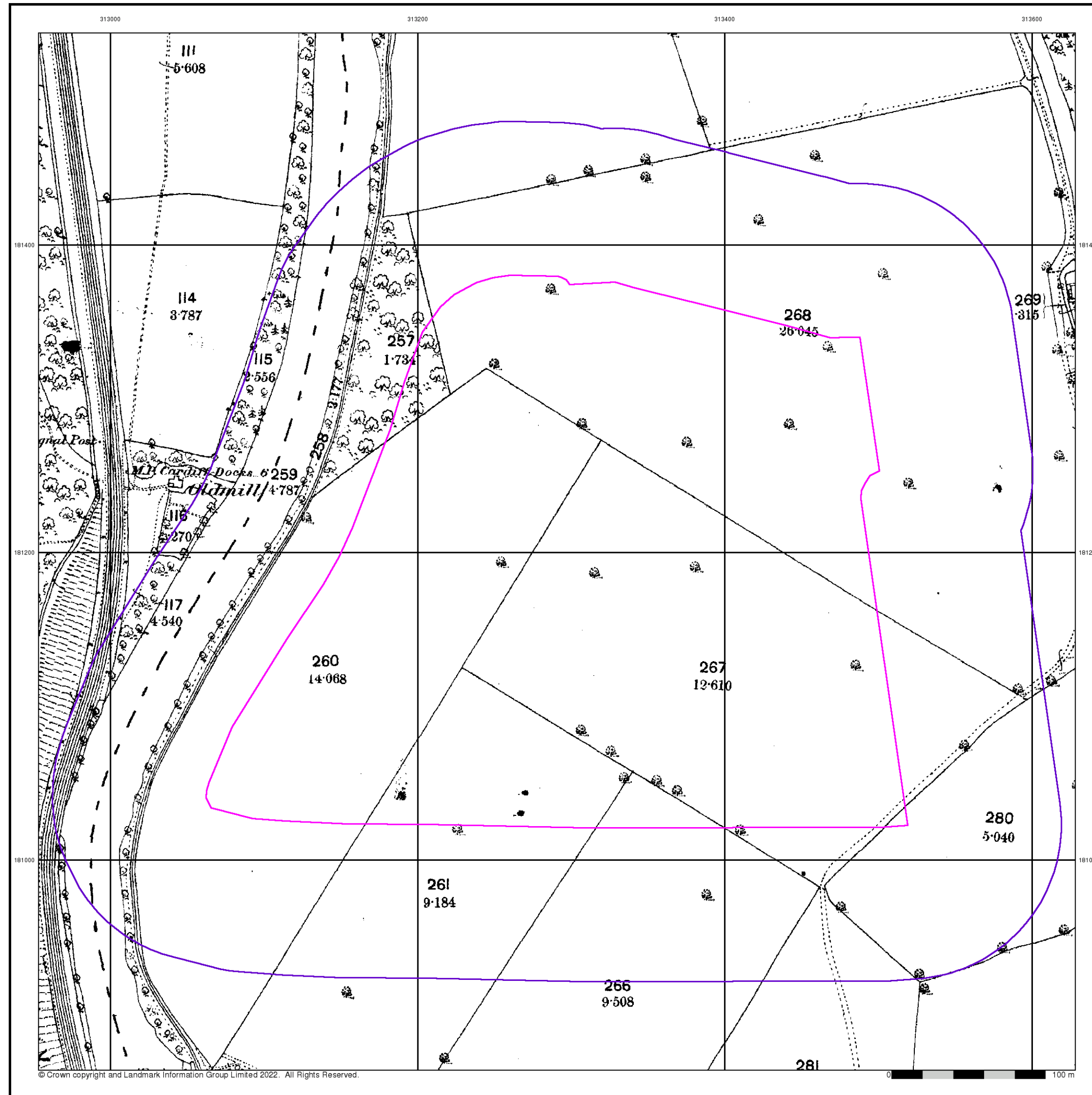
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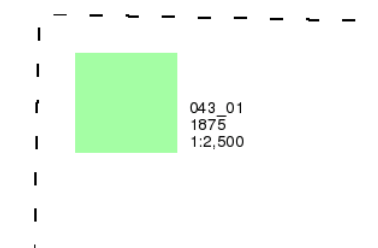
**Glamorganshire**

**Published 1875**

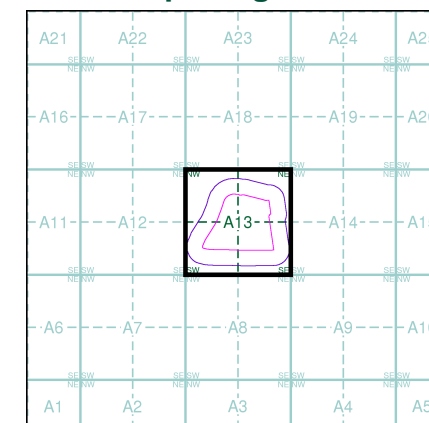
**Source map scale - 1:2,500**

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

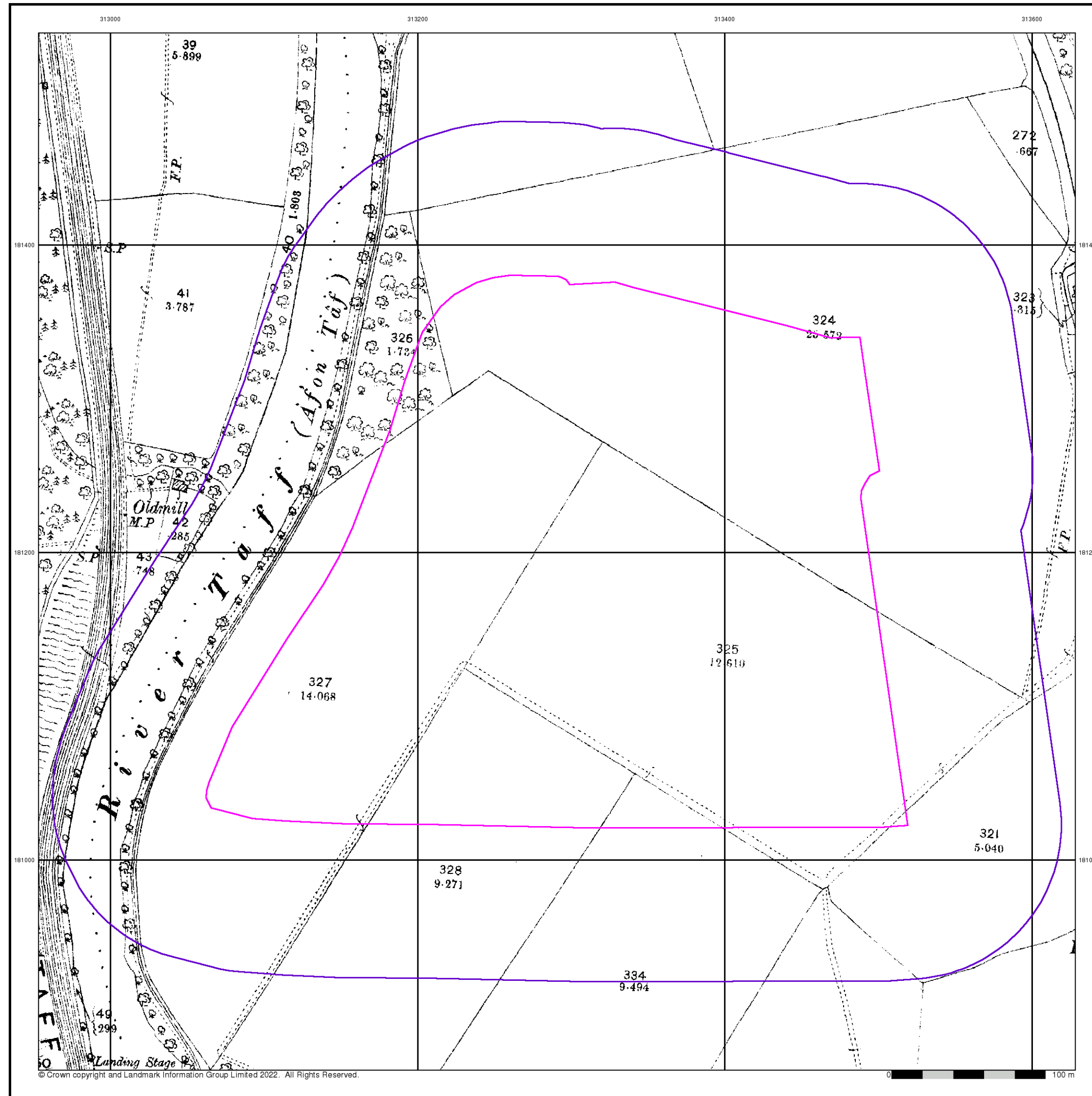
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Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

### Site Details

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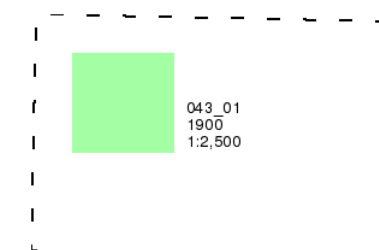
**Glamorganshire**

**Published 1900**

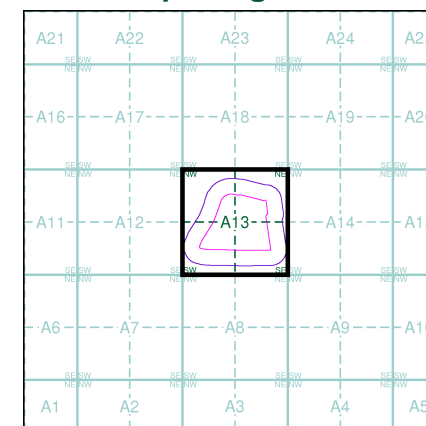
**Source map scale - 1:2,500**

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

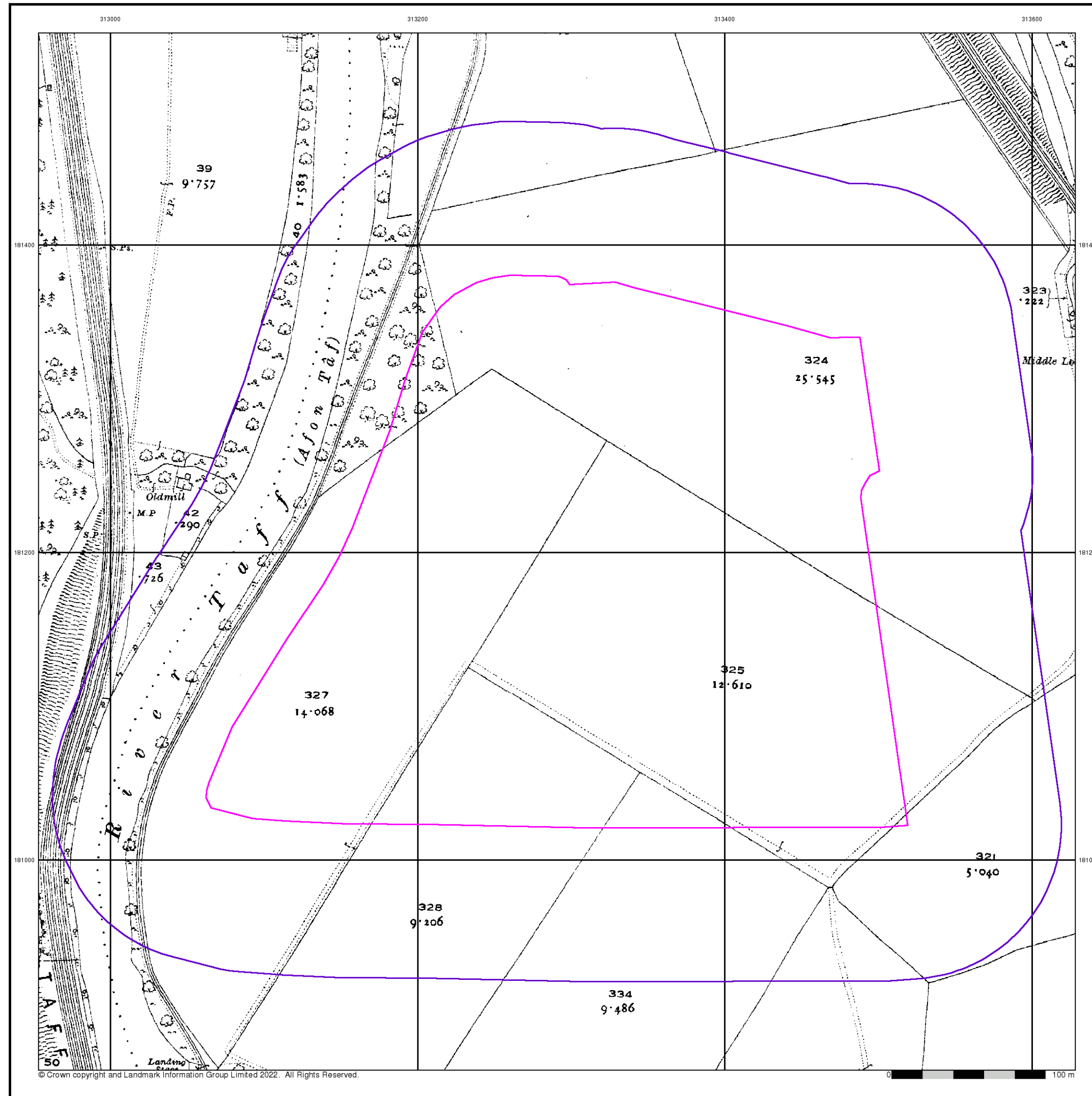
Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

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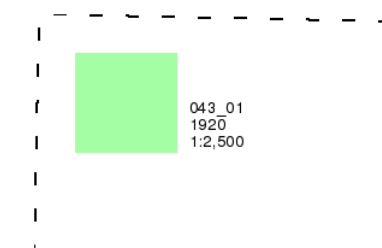
## Glamorganshire

Published 1920

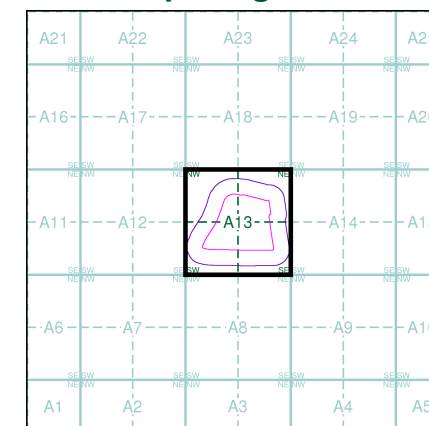
Source map scale - 1:2,500

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

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



### Historical Map - Segment A13



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

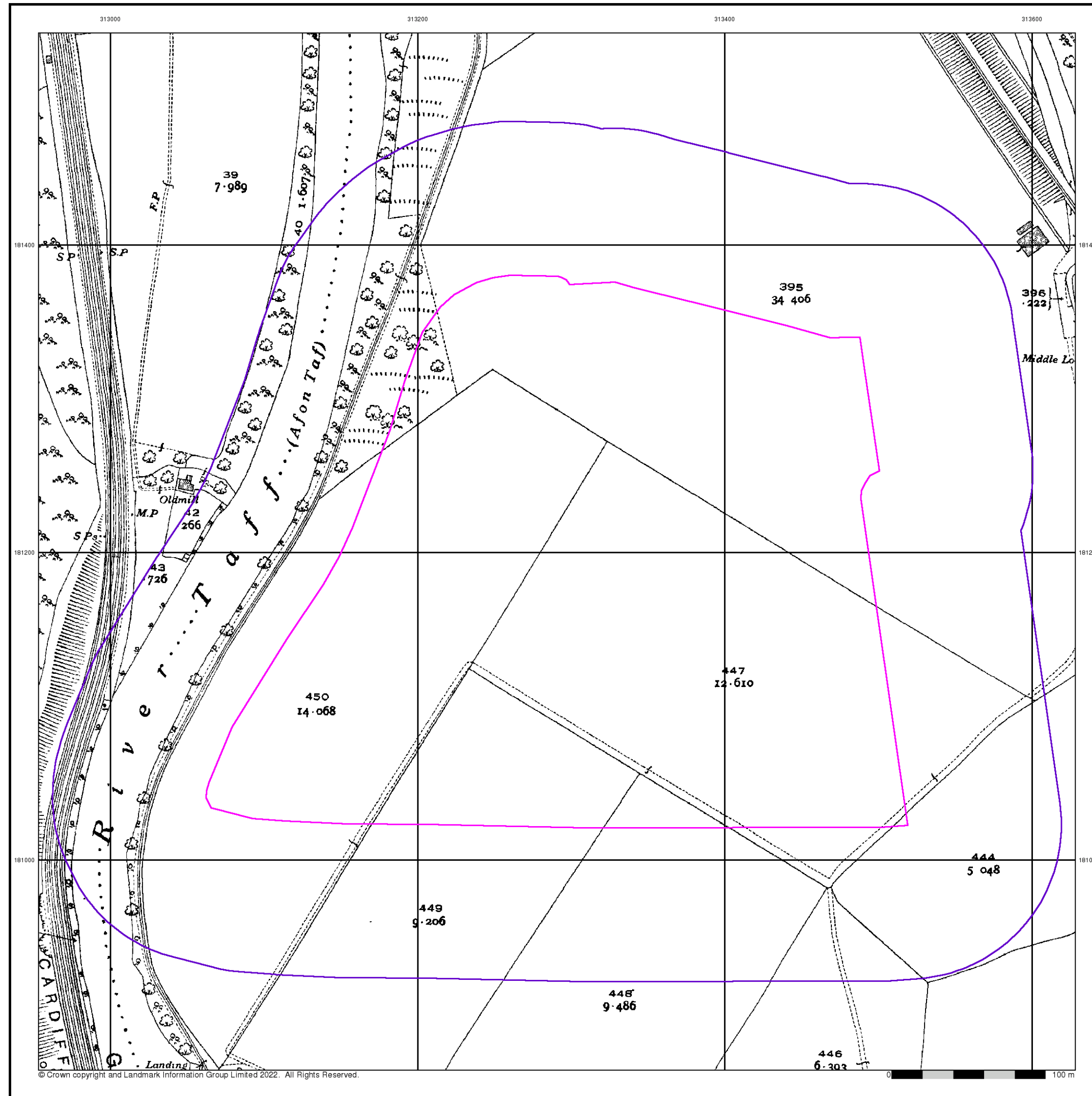
### Site Details

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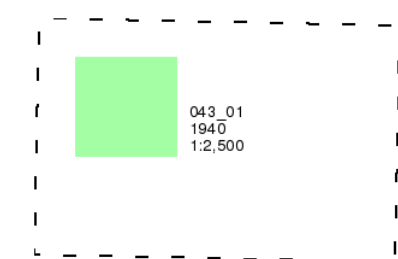
## Glamorganshire

Published 1940

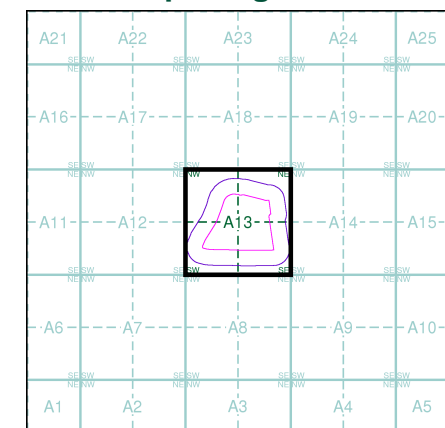
Source map scale - 1:2,500

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

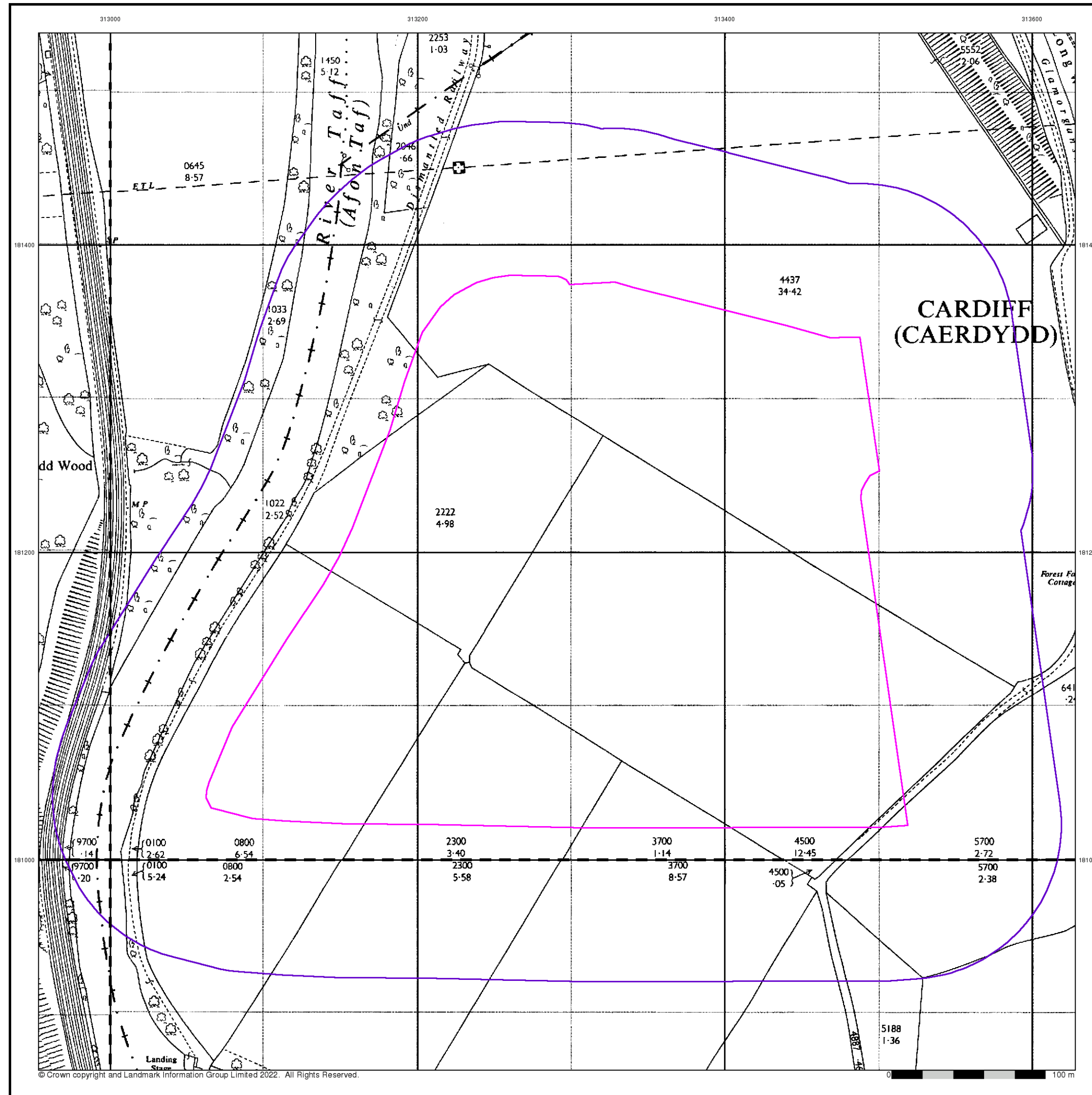
Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

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## Ordnance Survey Plan

Published 1969 - 1970

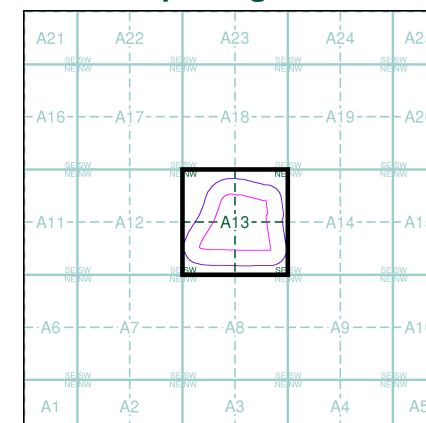
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

ST1281 1969 12,500	ST1381 1969 12,500
ST1280 1970 12,500	ST1380 1970 12,500

### Historical Map - Segment A13



### Order Details

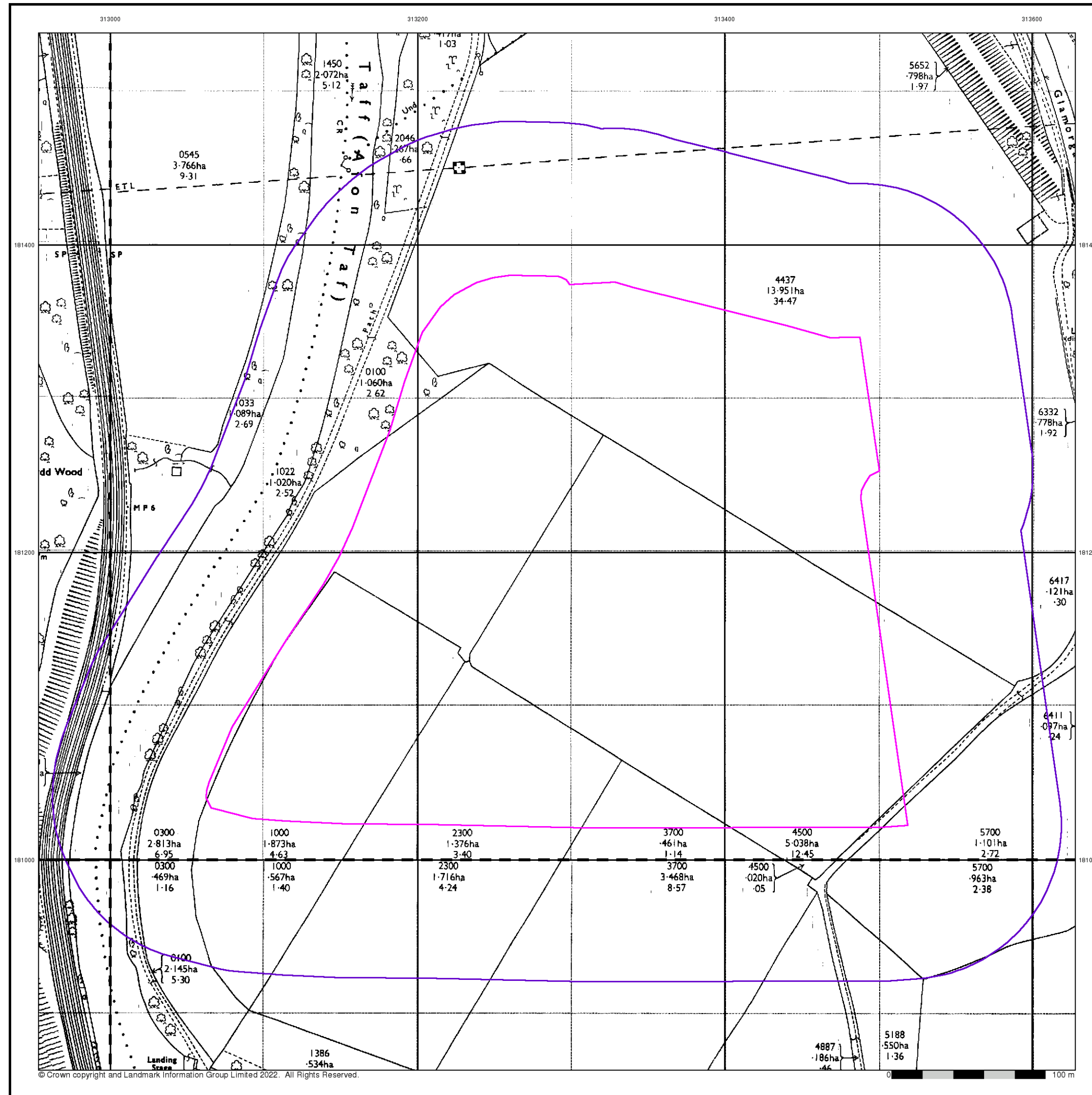
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Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

### Site Details

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## Ordnance Survey Plan

Published 1975

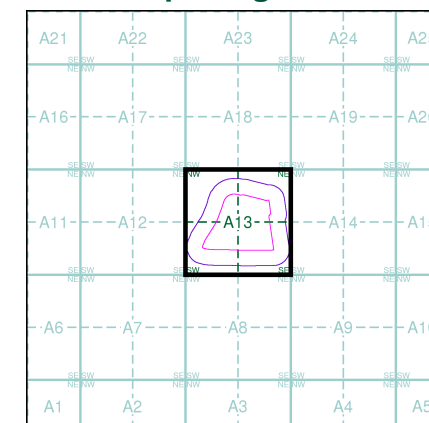
Source map scale - 1:2,500

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)

ST1281 1975 12,500	ST1381 1975 12,500
ST1280 1975 12,500	ST1380 1975 12,500

### Historical Map - Segment A13



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

### Site Details

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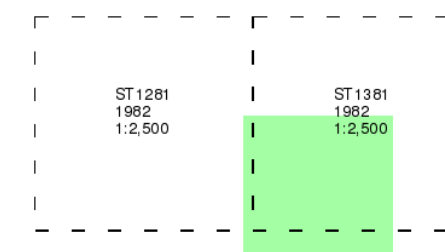
## Ordnance Survey Plan

Published 1982

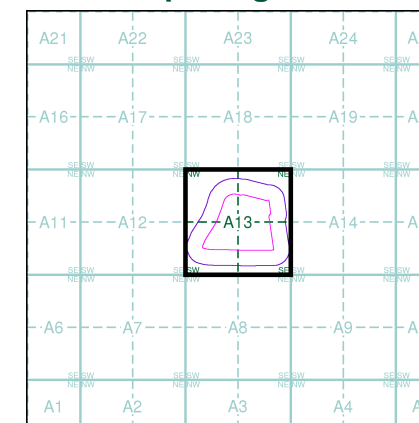
Source map scale - 1:2,500

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

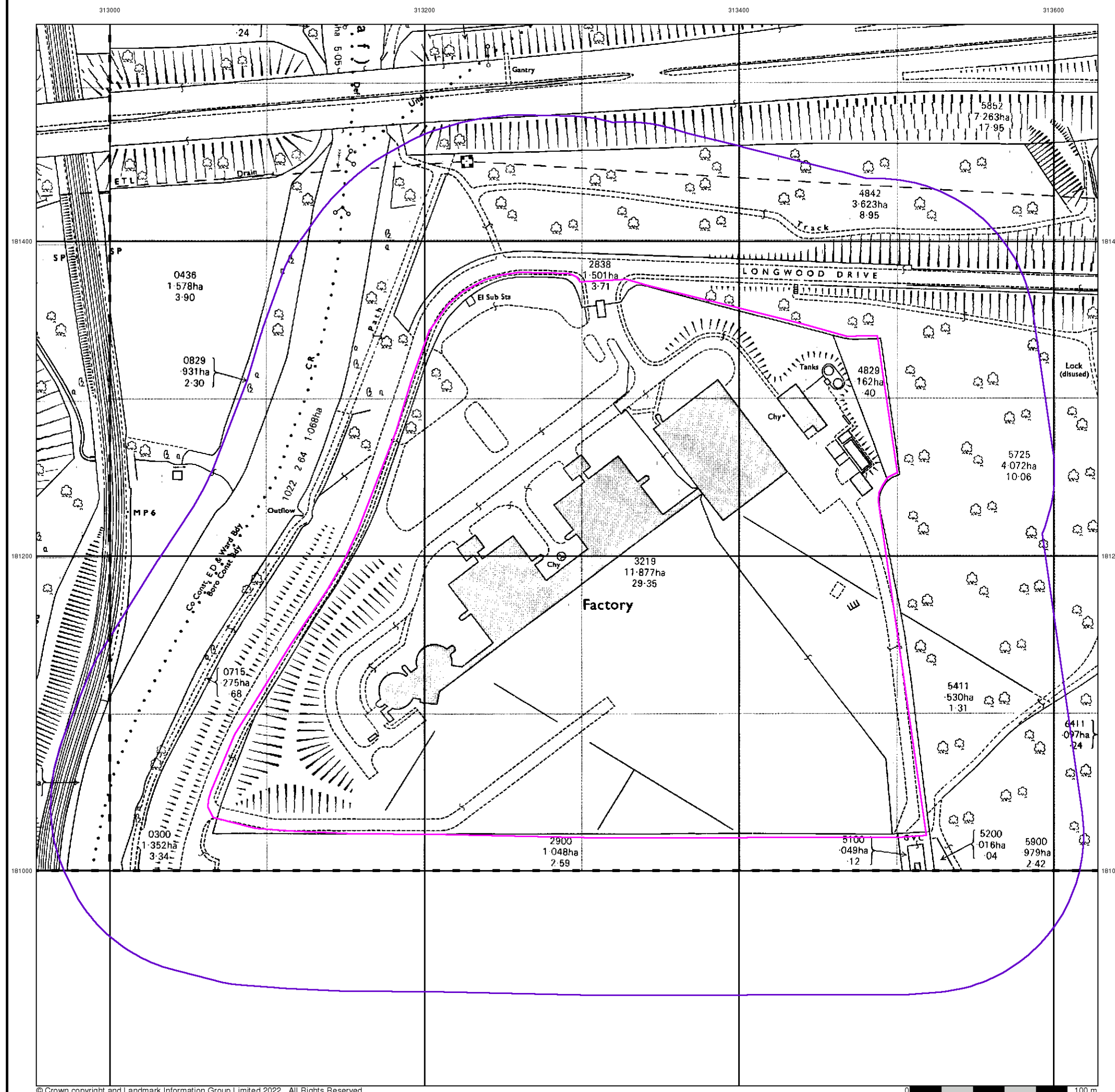
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Search Buffer (m): 100

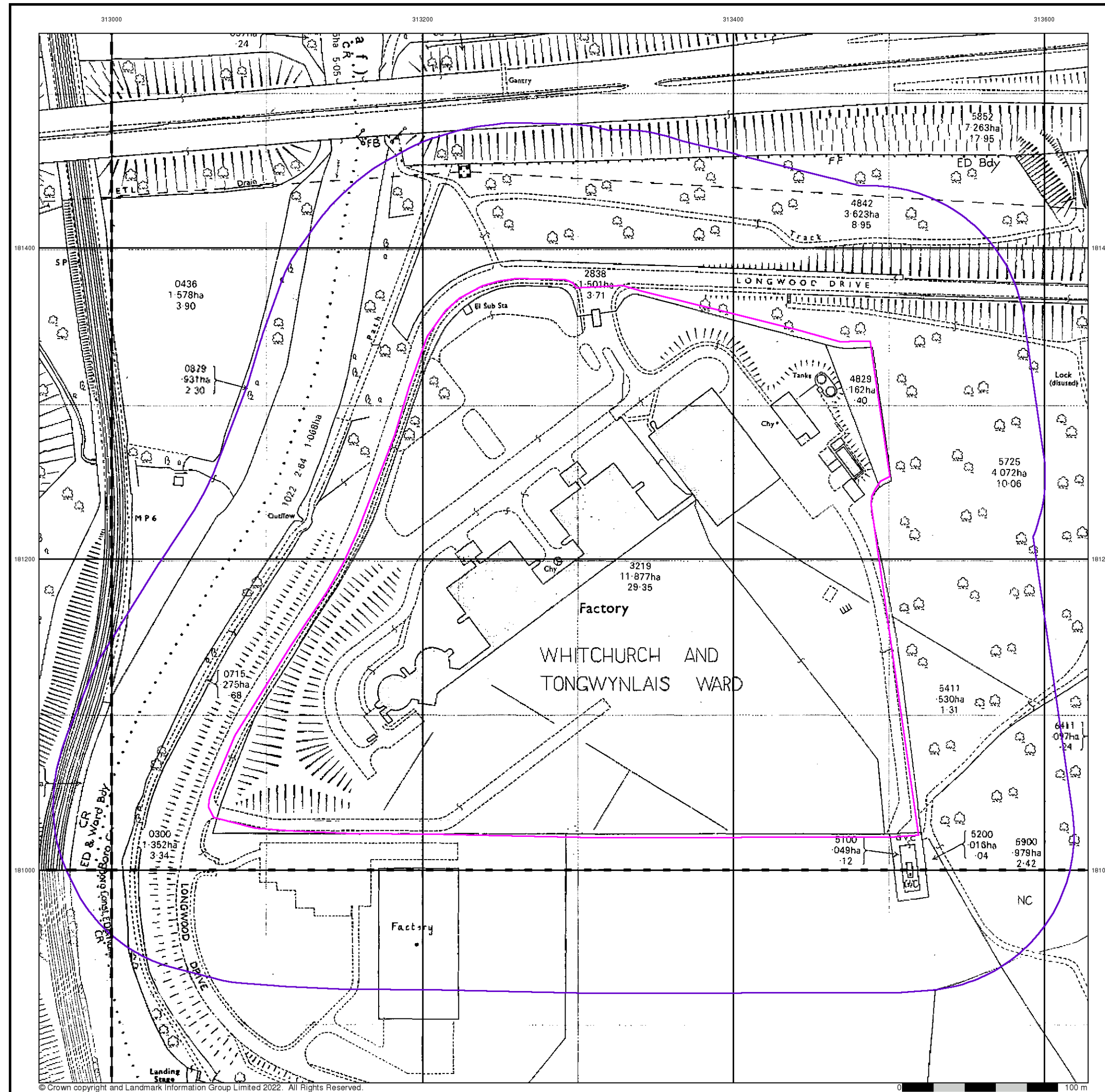
### Site Details

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## Additional SIMs

Published 1986 - 1989

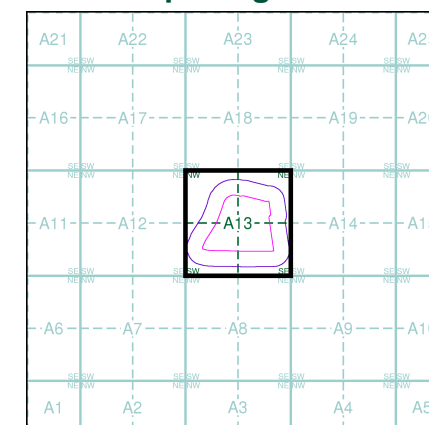
Source map scale - 1:2,500

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

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

ST1281 1989 12,500	ST1381 1987 12,500
ST1280 1988 12,500	ST1380 1986 12,500

## Historical Map - Segment A13



## Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

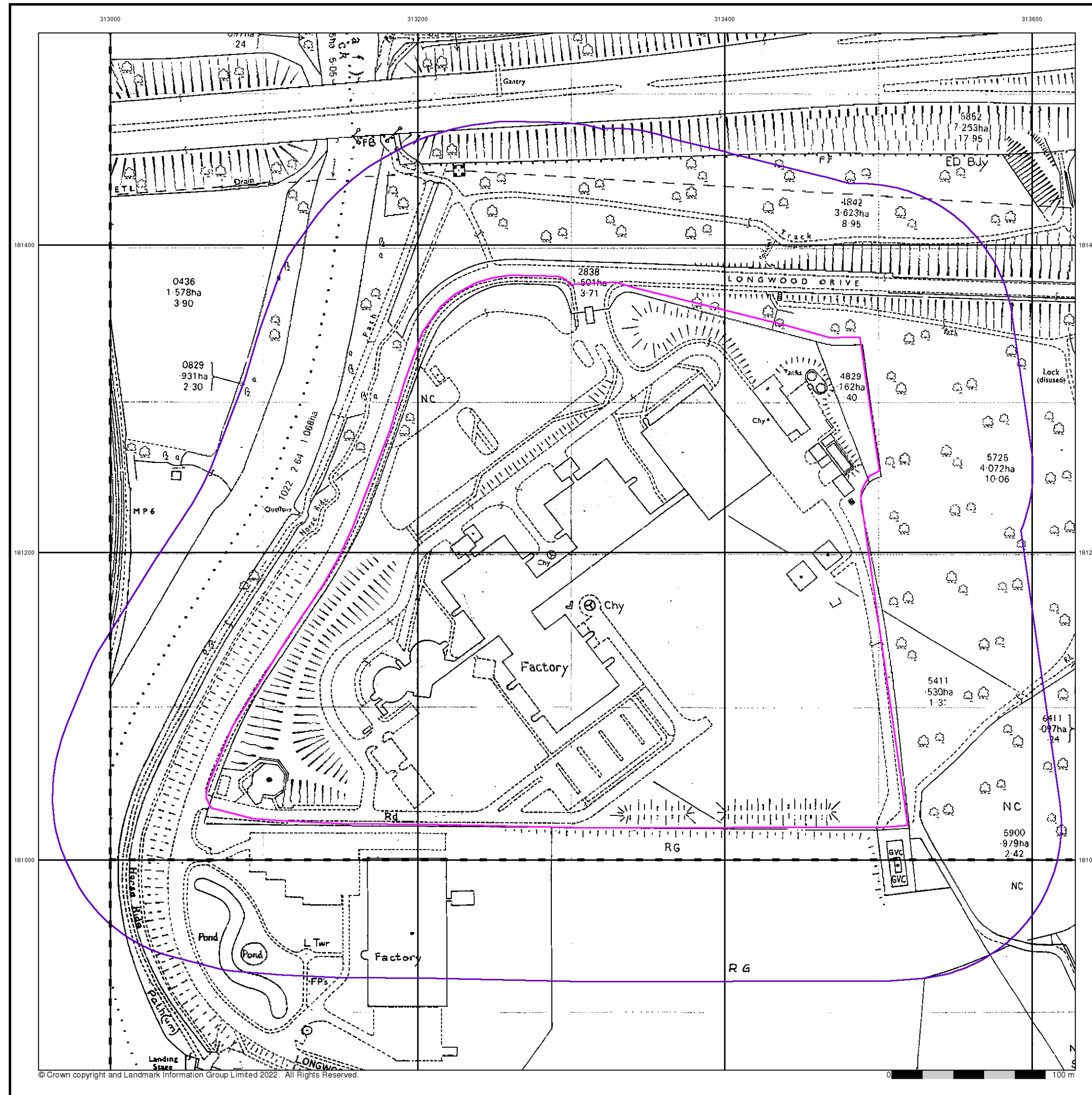
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## Additional SIMs

Published 1989

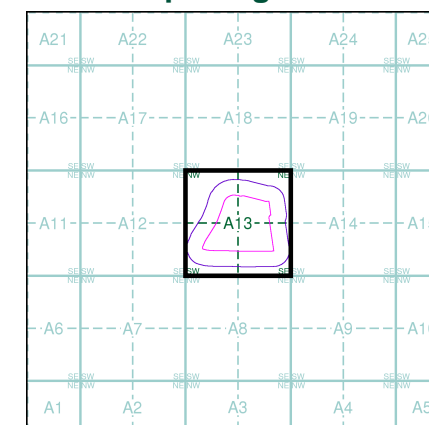
Source map scale - 1:2,500

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

ST1381	1989	1:2,500
ST1380	1989	1:2,500

## Historical Map - Segment A13



## Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

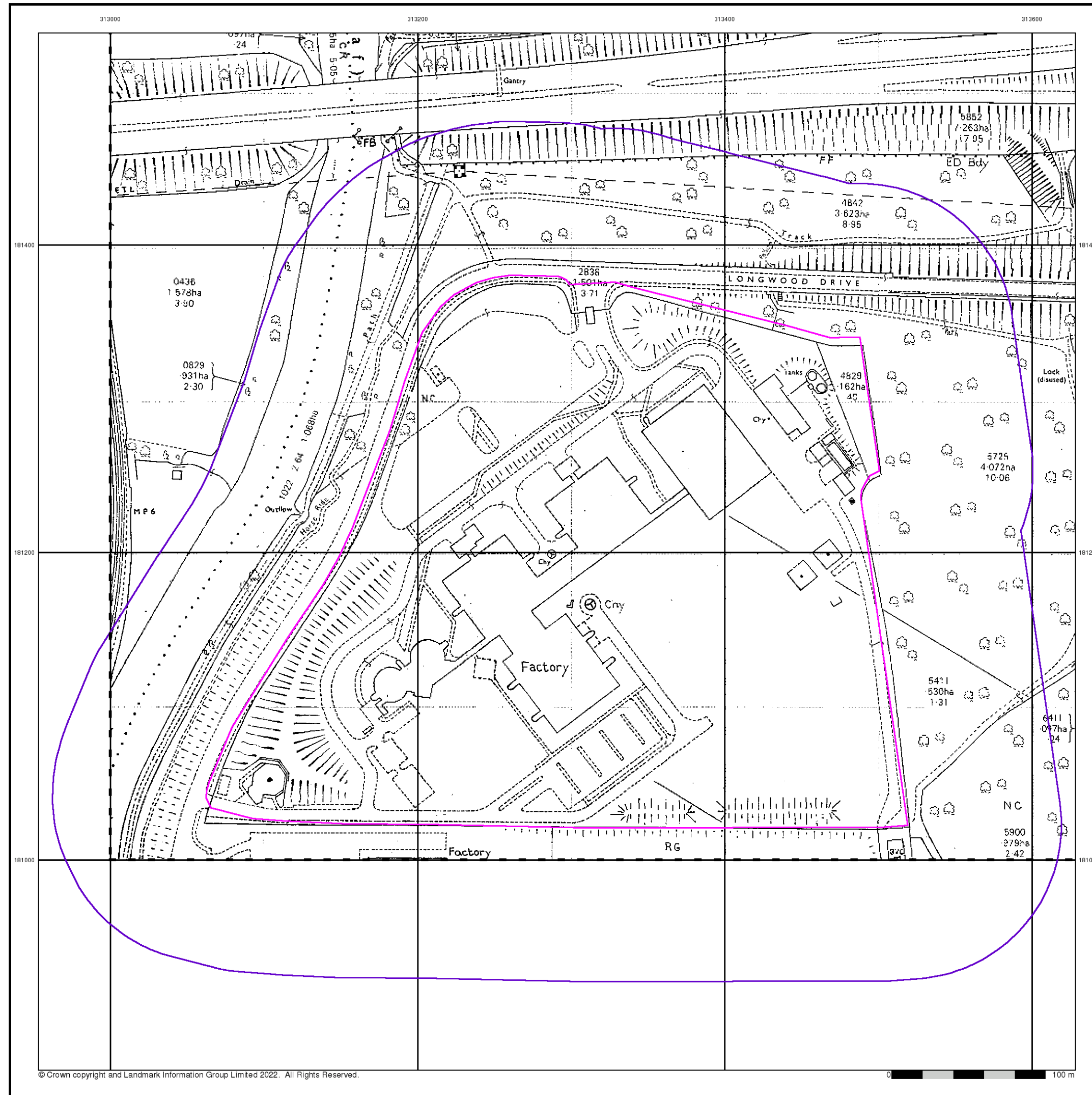
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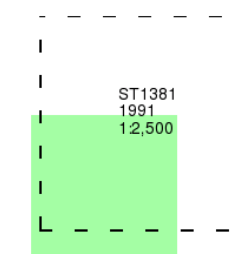
## Additional SIMs

Published 1991

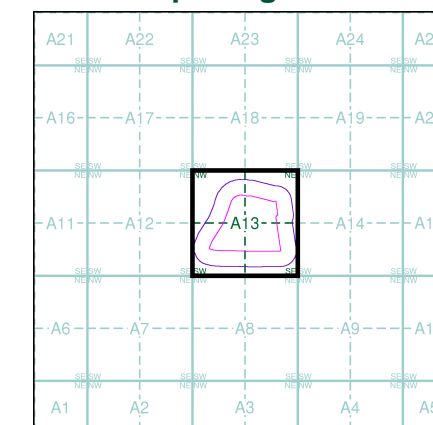
Source map scale - 1:2,500

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

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



## Historical Map - Segment A13



## Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

## Site Details

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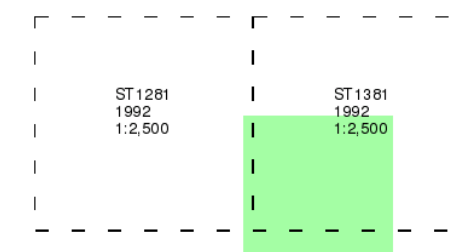
## Ordnance Survey Plan

Published 1992

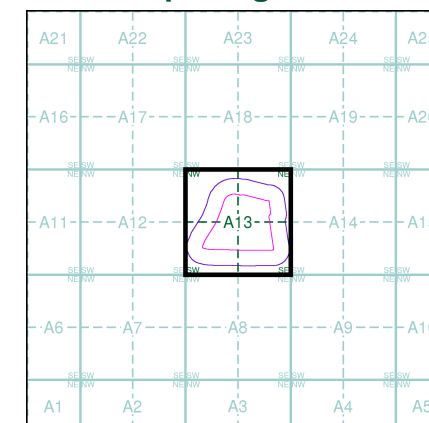
Source map scale - 1:2,500

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



### Historical Map - Segment A13



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

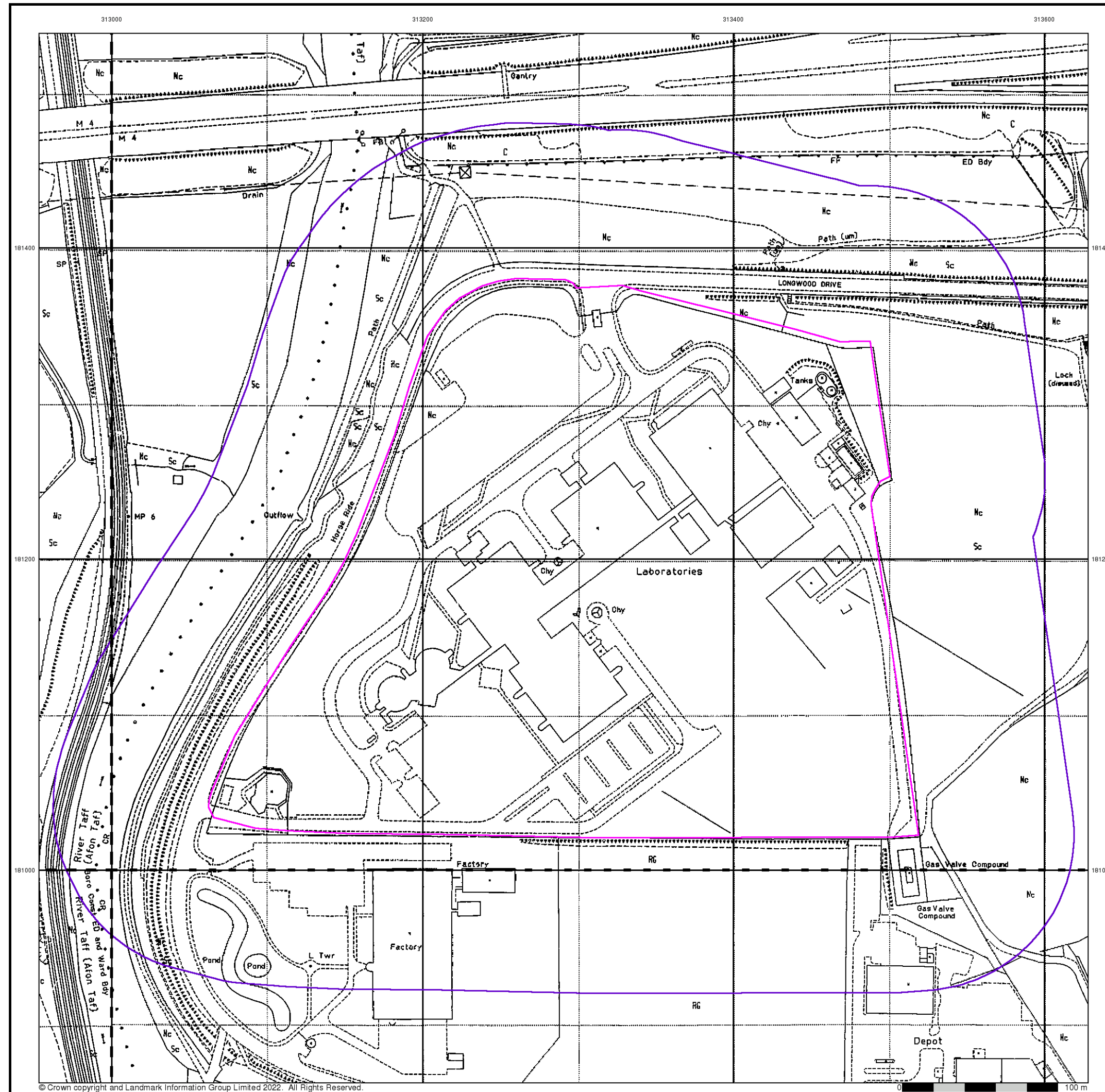
### Site Details

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## Large-Scale National Grid Data

Published 1992

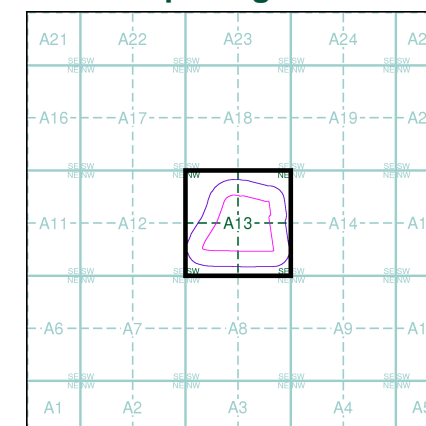
Source map scale - 1:2,500

'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)

ST1281 1992 12,500	ST1381 1992 12,500
ST1280 1992 12,500	ST1380 1992 12,500

### Historical Map - Segment A13



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

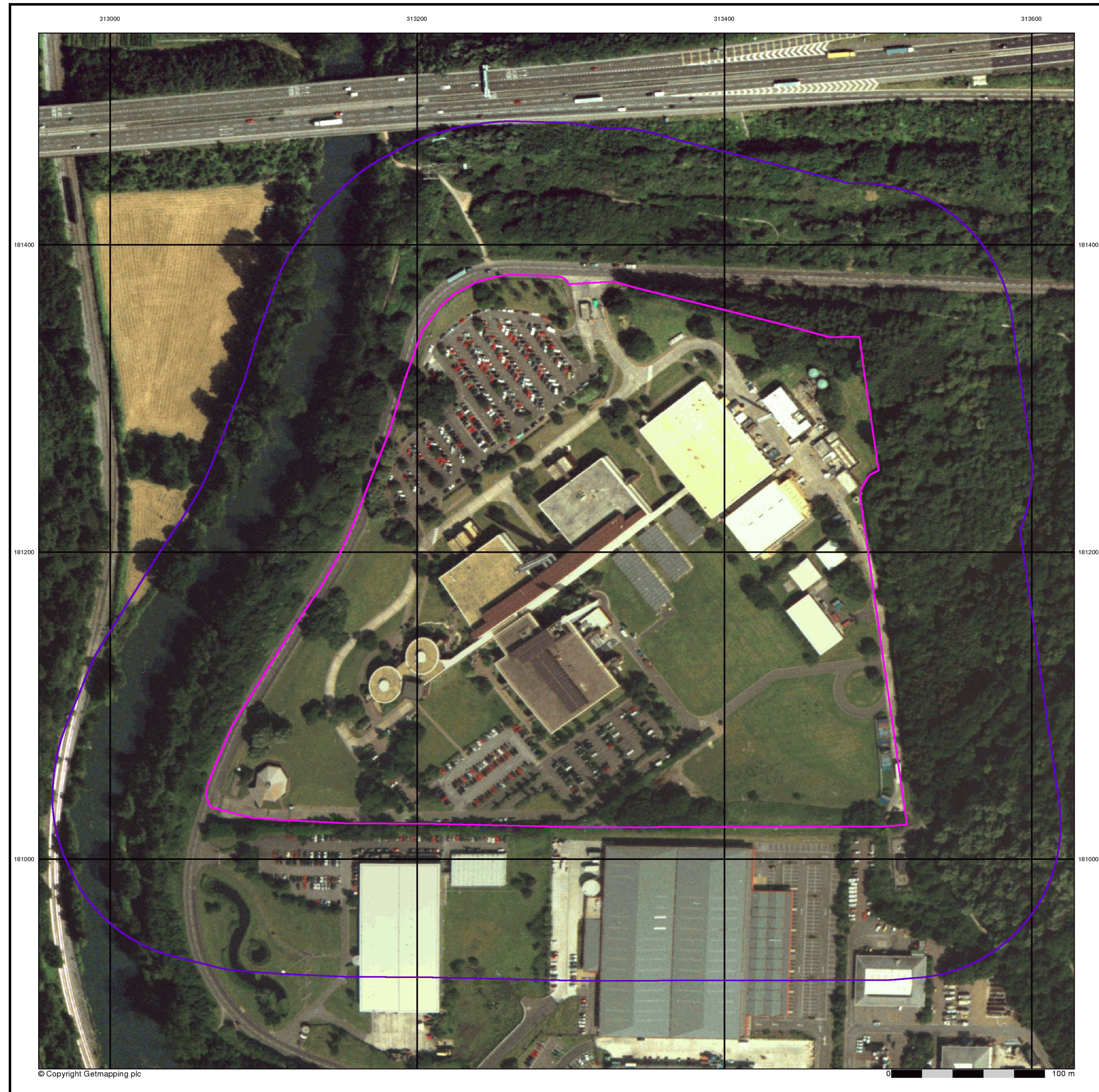
### Site Details

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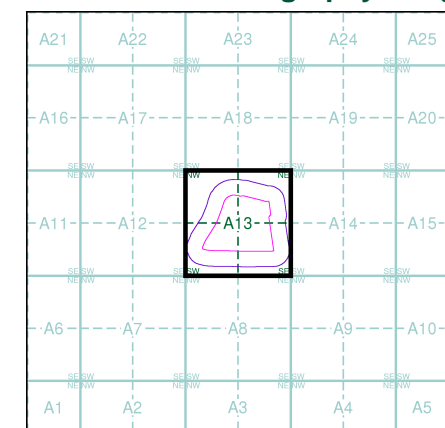


## Historical Aerial Photography

**Published 2000**

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

## Historical Aerial Photography - Segment A13



## Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
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		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

## 1:10,000 Raster Mapping

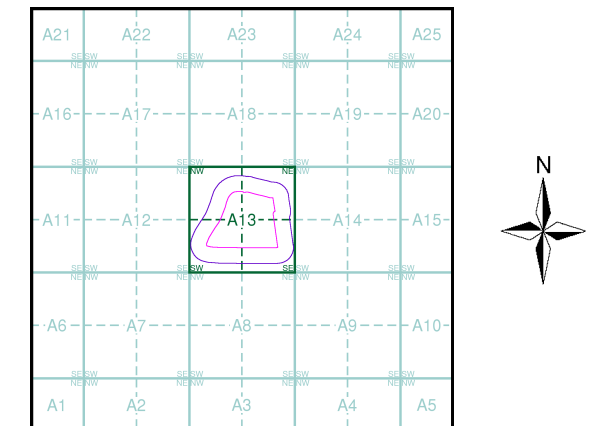
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1885	3
Glamorganshire	1:10,560	1885 - 1886	4
Glamorganshire	1:10,560	1900 - 1901	5
Glamorganshire	1:10,560	1921 - 1922	6
Glamorganshire	1:10,560	1938 - 1951	7
Historical Aerial Photography	1:10,560	1947 - 1949	8
Historical Aerial Photography	1:10,560	1947	9
Glamorganshire	1:10,560	1952 - 1953	10
Ordnance Survey Plan	1:10,000	1964 - 1965	11
Ordnance Survey Plan	1:10,000	1975	12
Ordnance Survey Plan	1:10,000	1982 - 1989	13
Cardiff	1:10,000	1982	14
Ordnance Survey Plan	1:10,000	1993	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2021	18

## Historical Map - Slice A



## Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

## Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU

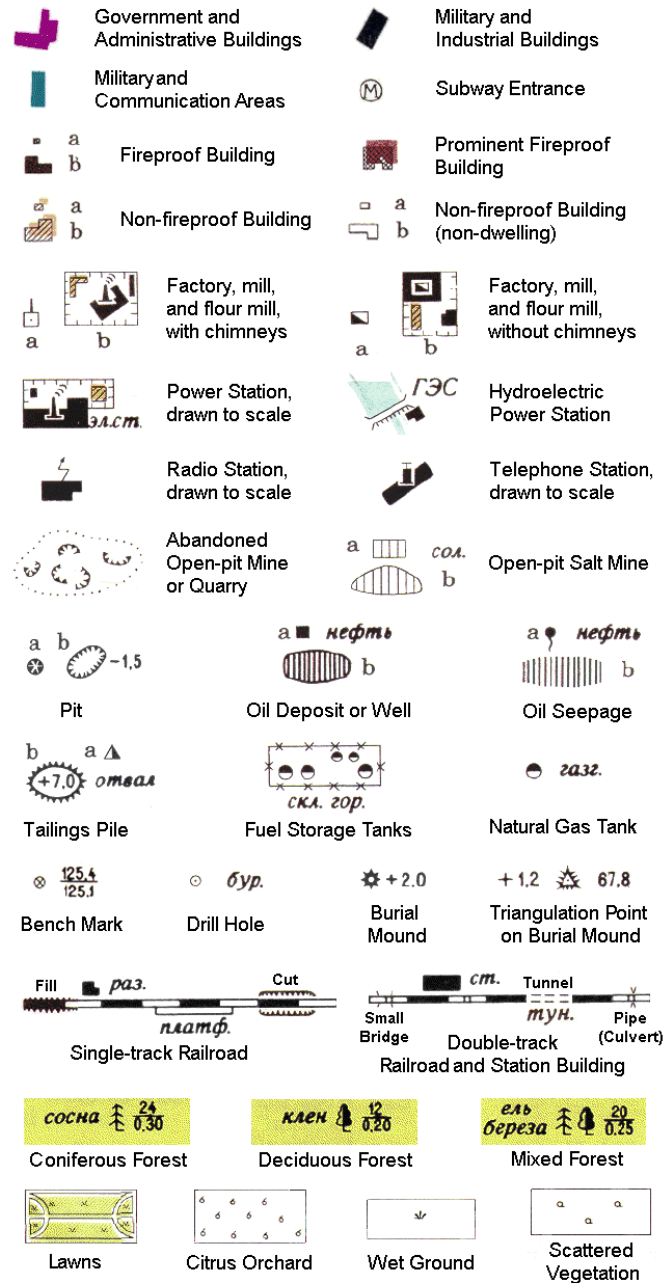
**Landmark**  
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# Russian Military Mapping Legends

## 1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale



**243.8** Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0.2 Velocity of the current, width of river bed, depth of river

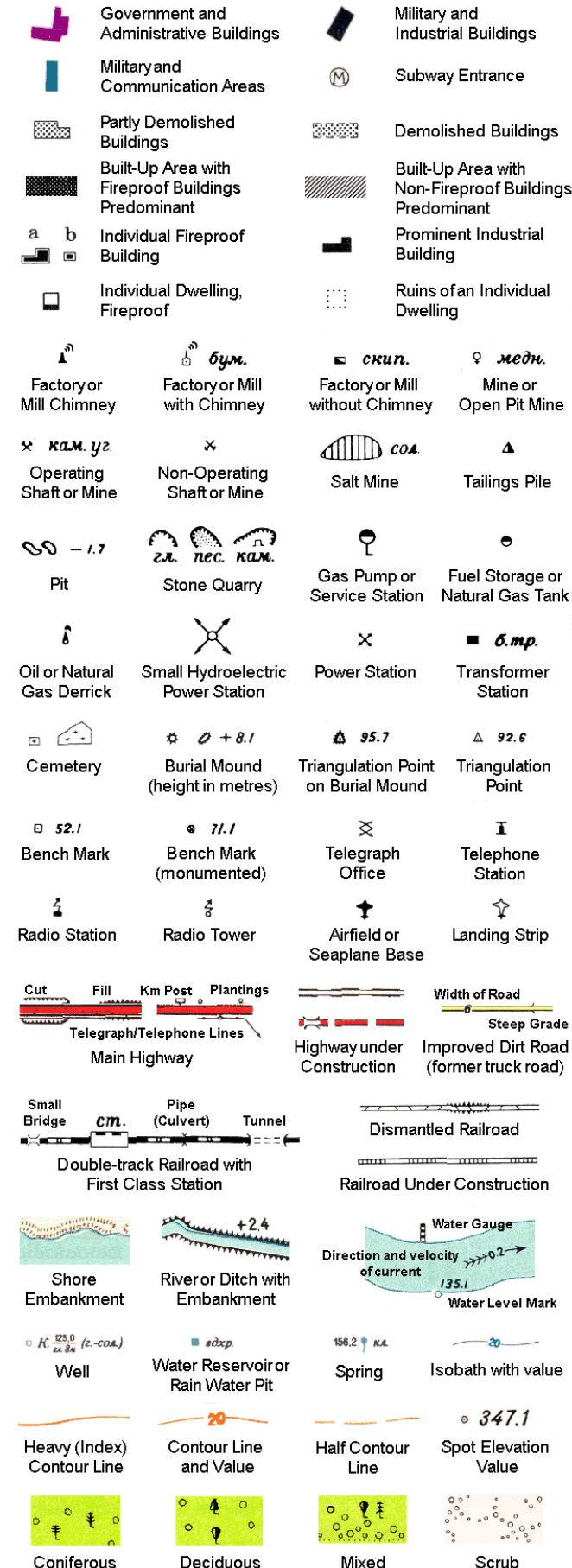
$\frac{180}{12}$  Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

**Russian Alphabet** (For reference and phonetic interpretation of map text)

<b>А а (A)</b>	<b>З з (Z)</b>	<b>П п (P)</b>	<b>Ч ч (CH)</b>
<b>Б б (B)</b>	<b>И и (I)</b>	<b>Р р (R)</b>	<b>Ш ш (SH)</b>
<b>В в (V)</b>	<b>Й й (Y)</b>	<b>С с (S)</b>	<b>Щ щ (SHCH)</b>
<b>Г г (G)</b>	<b>К к (K)</b>	<b>Т т (T)</b>	<b>Ъ (-)</b>
<b>Д д (D)</b>	<b>Л л (L)</b>	<b>У у (U)</b>	<b>Ы (Y)</b>
<b>Е е (E)</b>	<b>М м (M)</b>	<b>Ф ф (F)</b>	<b>Ь (')</b>
<b>Ё ё (YO)</b>	<b>Н н (N)</b>	<b>Х х (KH)</b>	<b>Э э (E)</b>
<b>Ж ж (ZH)</b>	<b>О о (O)</b>	<b>Ц ц (TS)</b>	<b>Ю ю (YU or IU)</b>
			<b>Я я (YA or IA)</b>

## 1:25,000 mapping

a. Not drawn to scale b. Drawn to scale



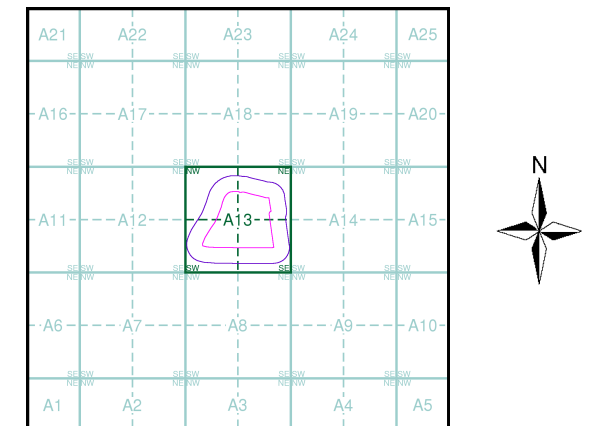
## Key to Numbers on Mapping



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1885	3
Glamorganshire	1:10,560	1885 - 1886	4
Glamorganshire	1:10,560	1900 - 1901	5
Glamorganshire	1:10,560	1921 - 1922	6
Glamorganshire	1:10,560	1938 - 1951	7
Historical Aerial Photography	1:10,560	1947 - 1949	8
Historical Aerial Photography	1:10,560	1947	9
Glamorganshire	1:10,560	1952 - 1953	10
Ordnance Survey Plan	1:10,000	1964 - 1965	11
Ordnance Survey Plan	1:10,000	1975	12
Ordnance Survey Plan	1:10,000	1982 - 1989	13
Cardiff	1:10,000	1982	14
Ordnance Survey Plan	1:10,000	1993	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2021	18

## Russian Map - Slice A



## Order Details

Order Number: 294881209\_1\_1  
 Customer Ref: 21-712  
 National Grid Reference: 313310, 181170  
 Slice: A  
 Site Area (Ha): 12.33  
 Search Buffer (m): 1000

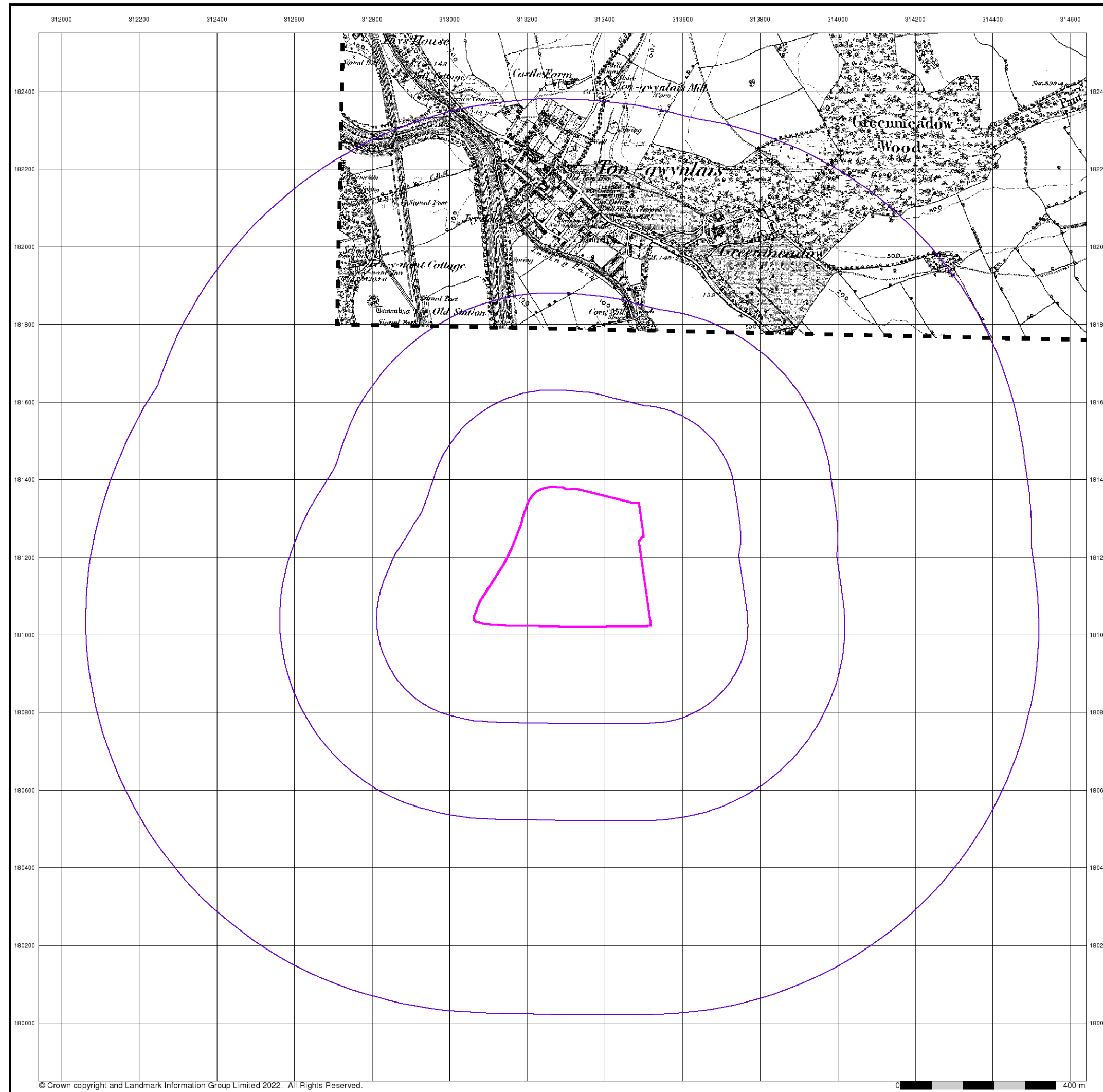
## Site Details

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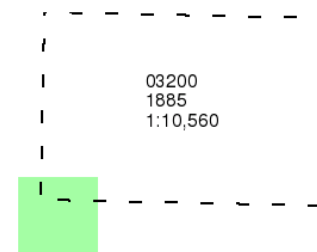
## Monmouthshire

Published 1885

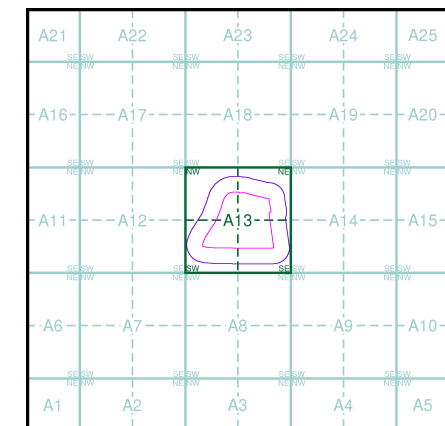
Source map scale - 1:10,560

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: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

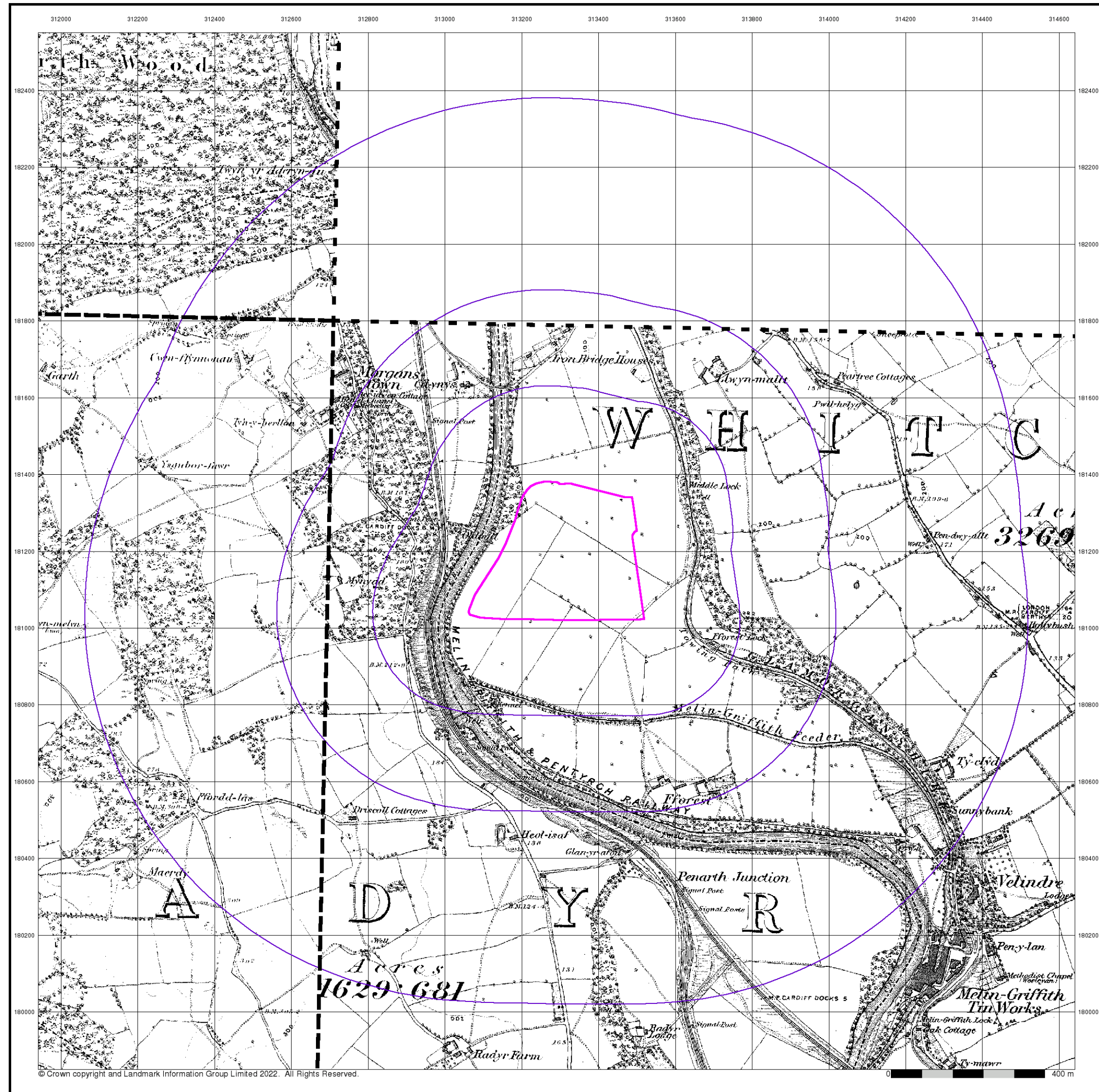
### Site Details

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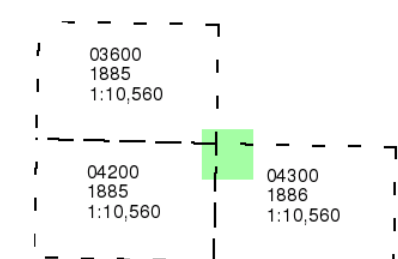
## Glamorganshire

Published 1885 - 1886

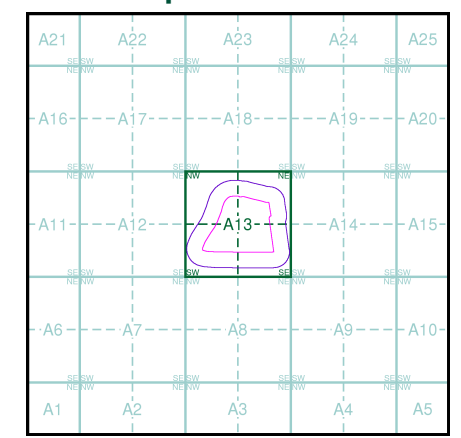
Source map scale - 1:10,560

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

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



### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

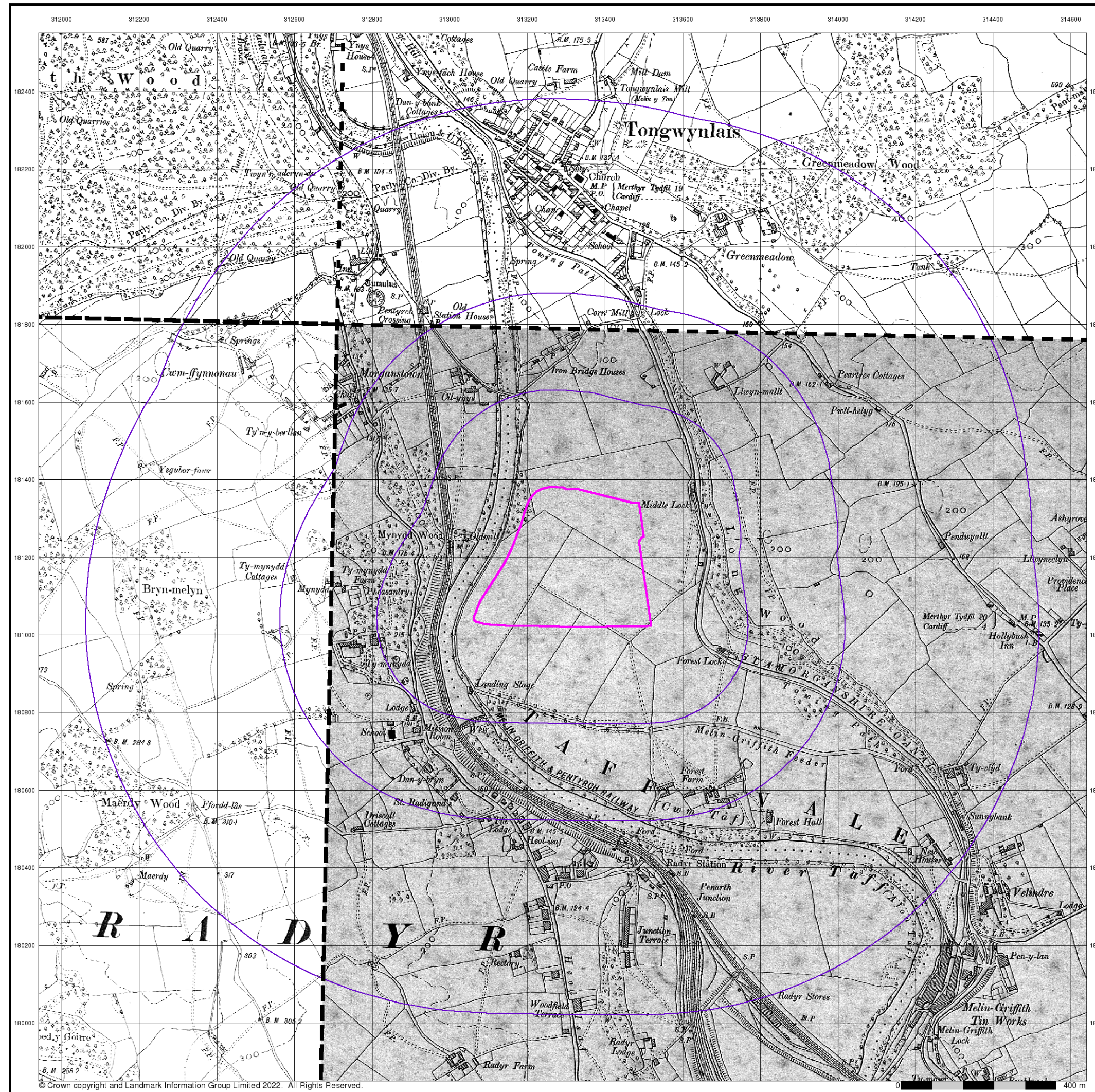
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## Glamorgan

Published 1900 - 1901

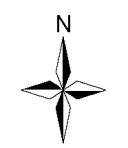
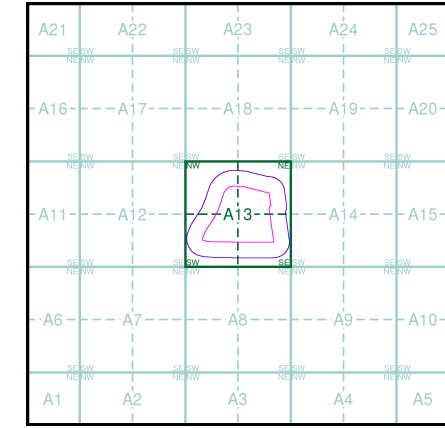
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear 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)

036SE 1900 1:10,560	037SW 1901 1:10,560
042NE 1900 1:10,560	043NW 1901 1:10,560

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

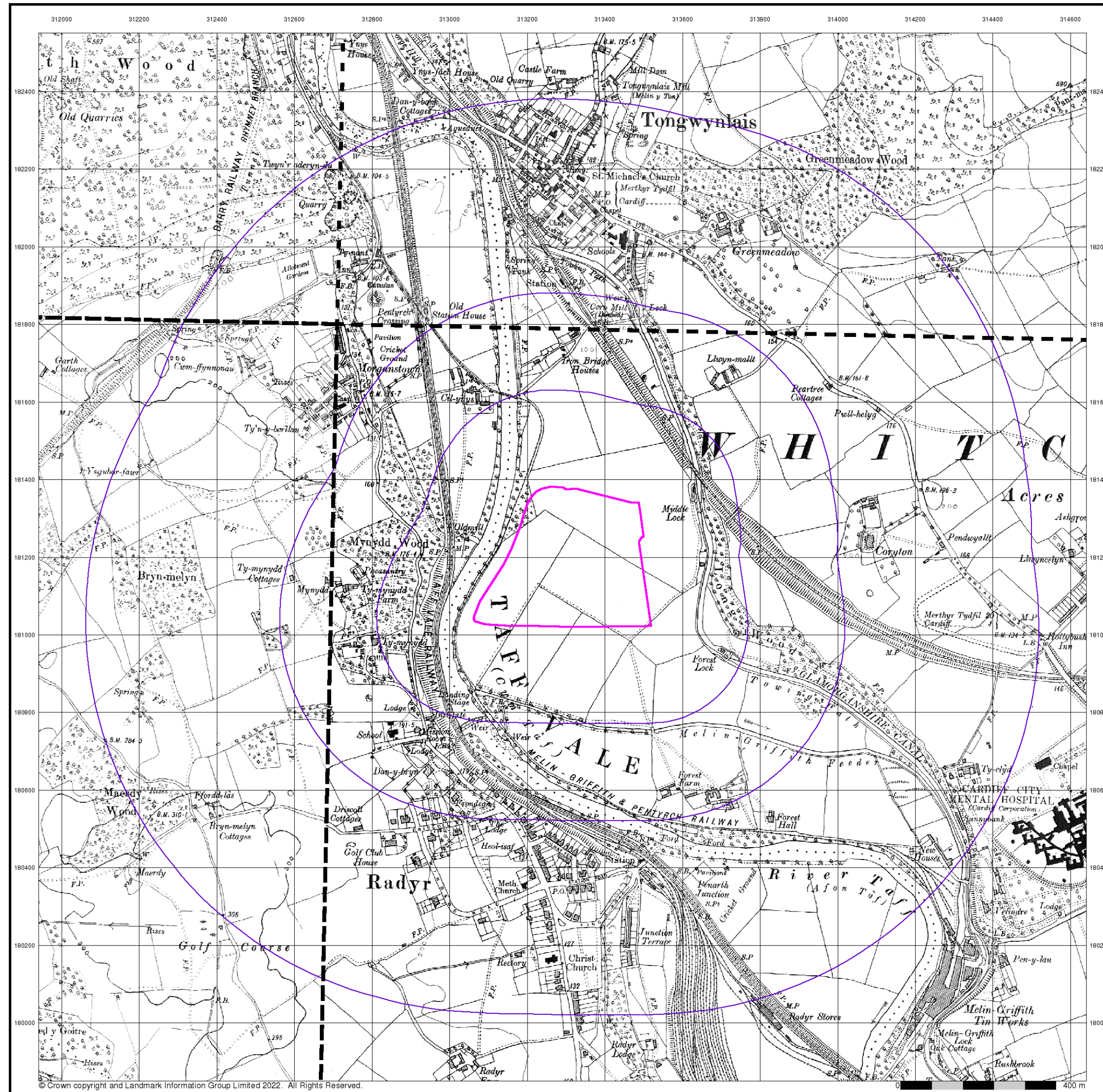
### Site Details

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## Glamorganshire

Published 1921 - 1922

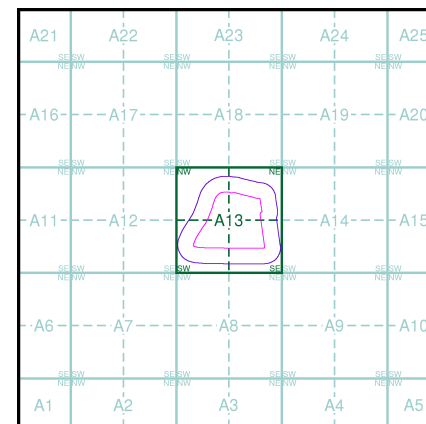
Source map scale - 1:10,560

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

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

036SE 1921 1:10,560	037SW 1922 1:10,560
042NE 1921 1:10,560	043NW 1922 1:10,560

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

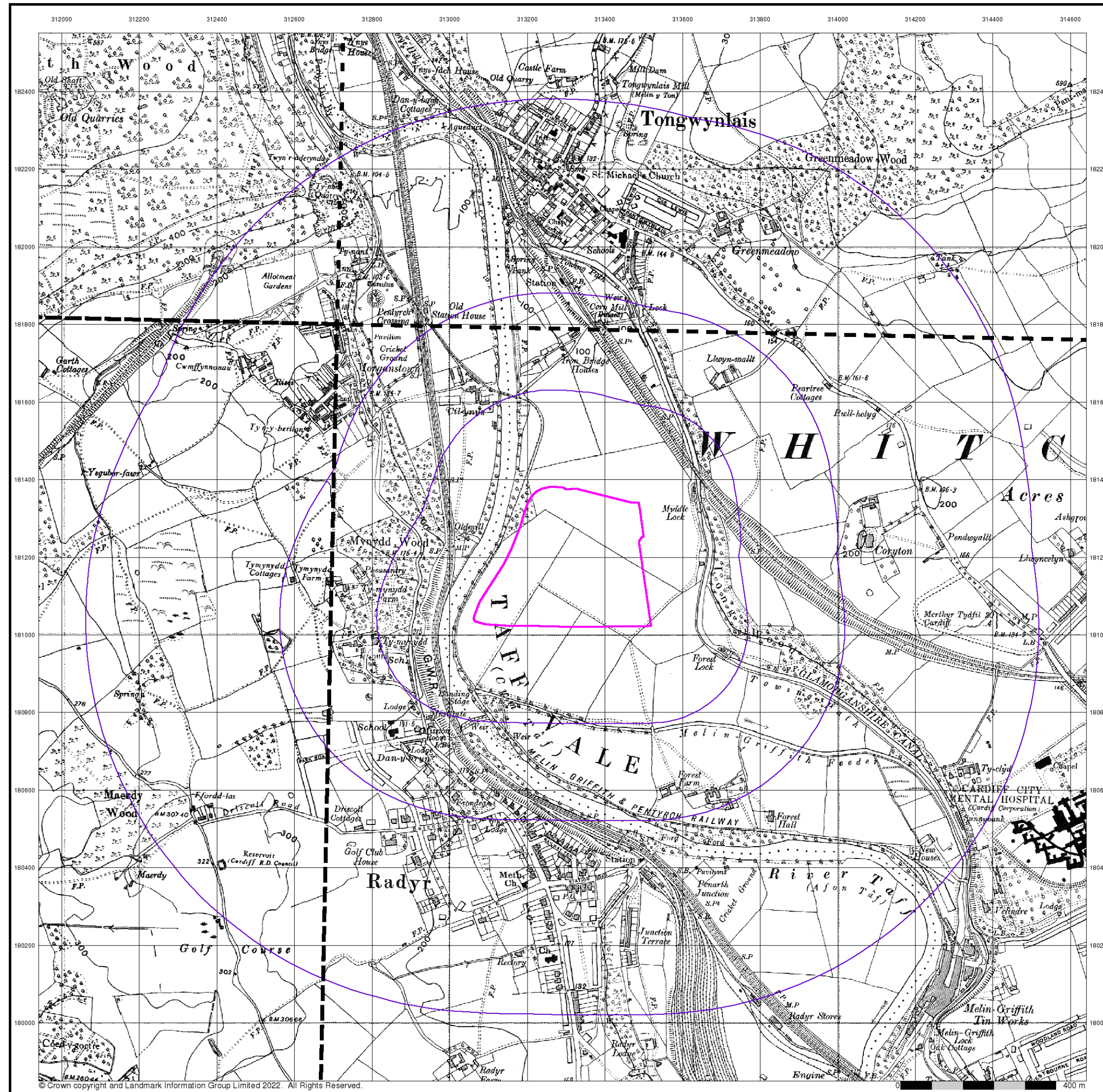
### Site Details

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## Glamorganshire

Published 1938 - 1951

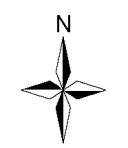
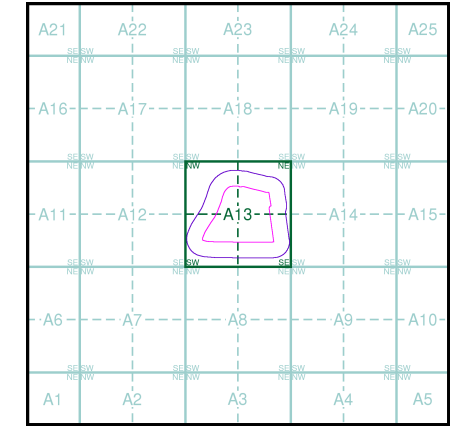
Source map scale - 1:10,560

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)

036SE 1950 1:10,560	037SW 1938 1:10,560
042NE 1951 1:10,560	043NW 1938 1:10,560

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

### Site Details

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## Historical Aerial Photography

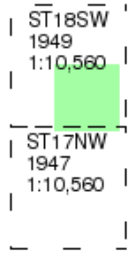
Published 1947 - 1949

Source map scale - 1:10,560

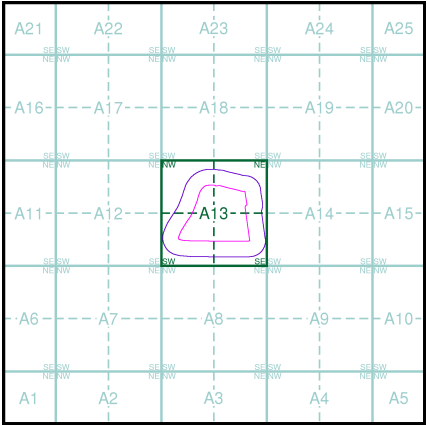
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 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)



### Historical Aerial Photography - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

### Site Details

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## Historical Aerial Photography

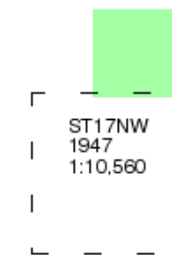
Published 1947

Source map scale - 1:10,560

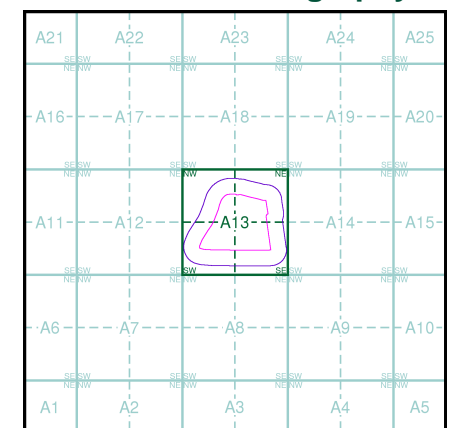
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 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)



### Historical Aerial Photography - Slice A



### Order Details

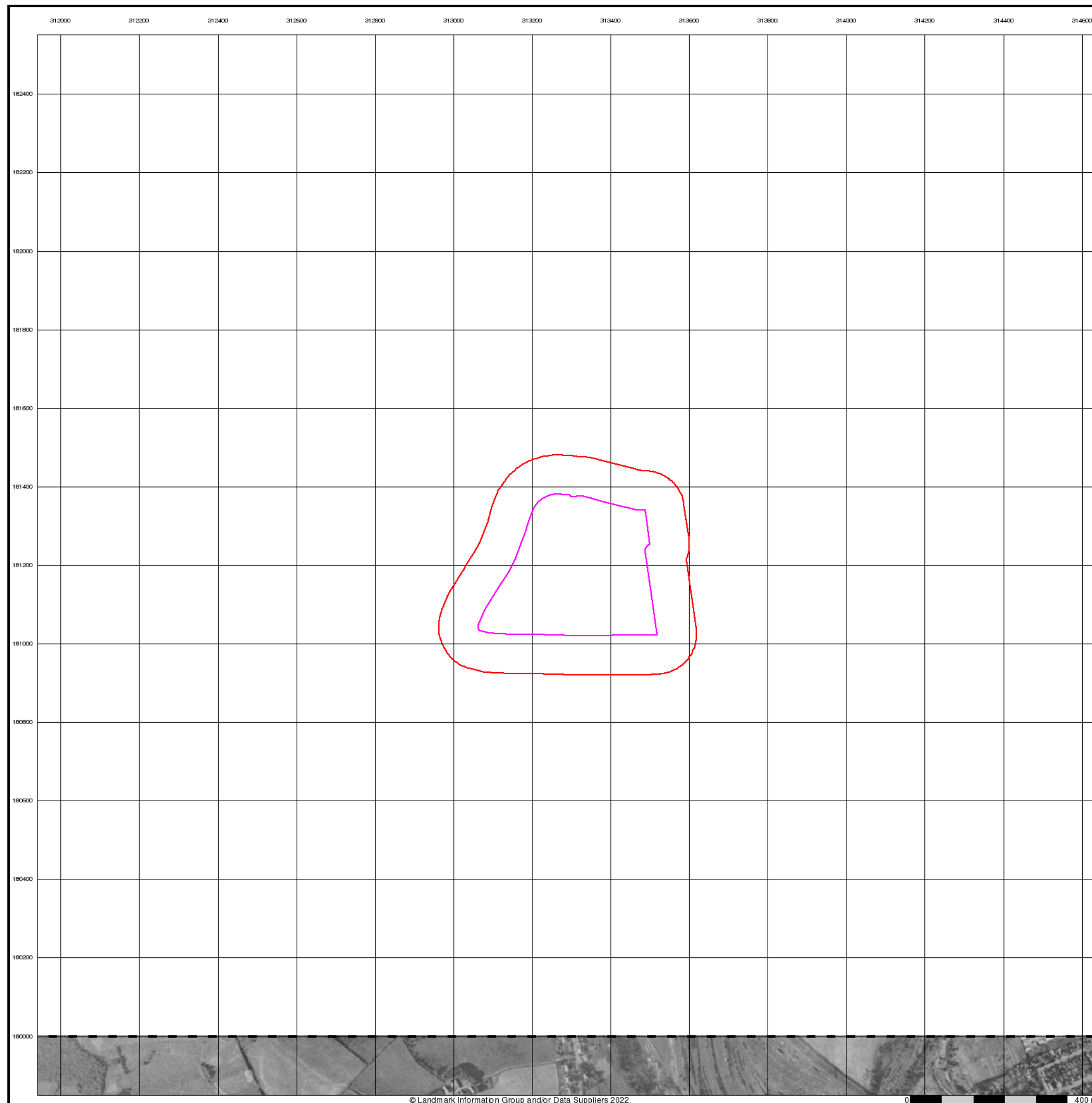
Order Number: 294881209\_1\_1  
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Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

### Site Details

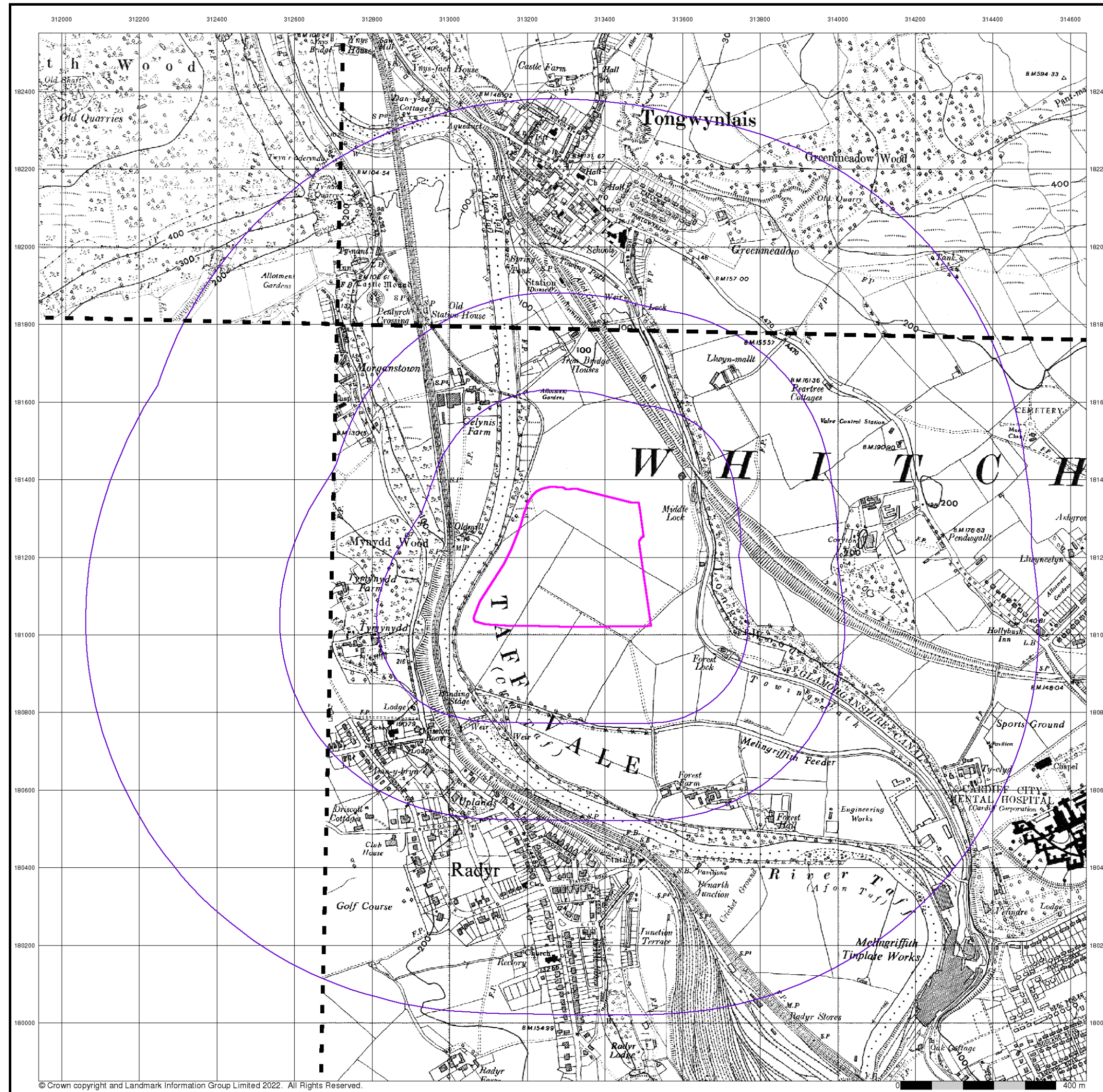
Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
CARDIFF, CF14 7YU



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## Glamorganshire

Published 1952 - 1953

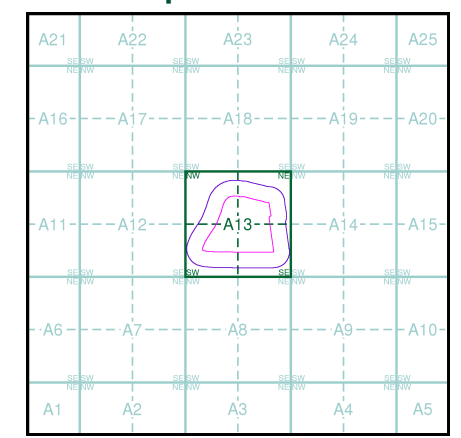
Source map scale - 1:10,560

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

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

036SE 1953 1:10,560	037SW 1953 1:10,560
	043NW 1952 1:10,560

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

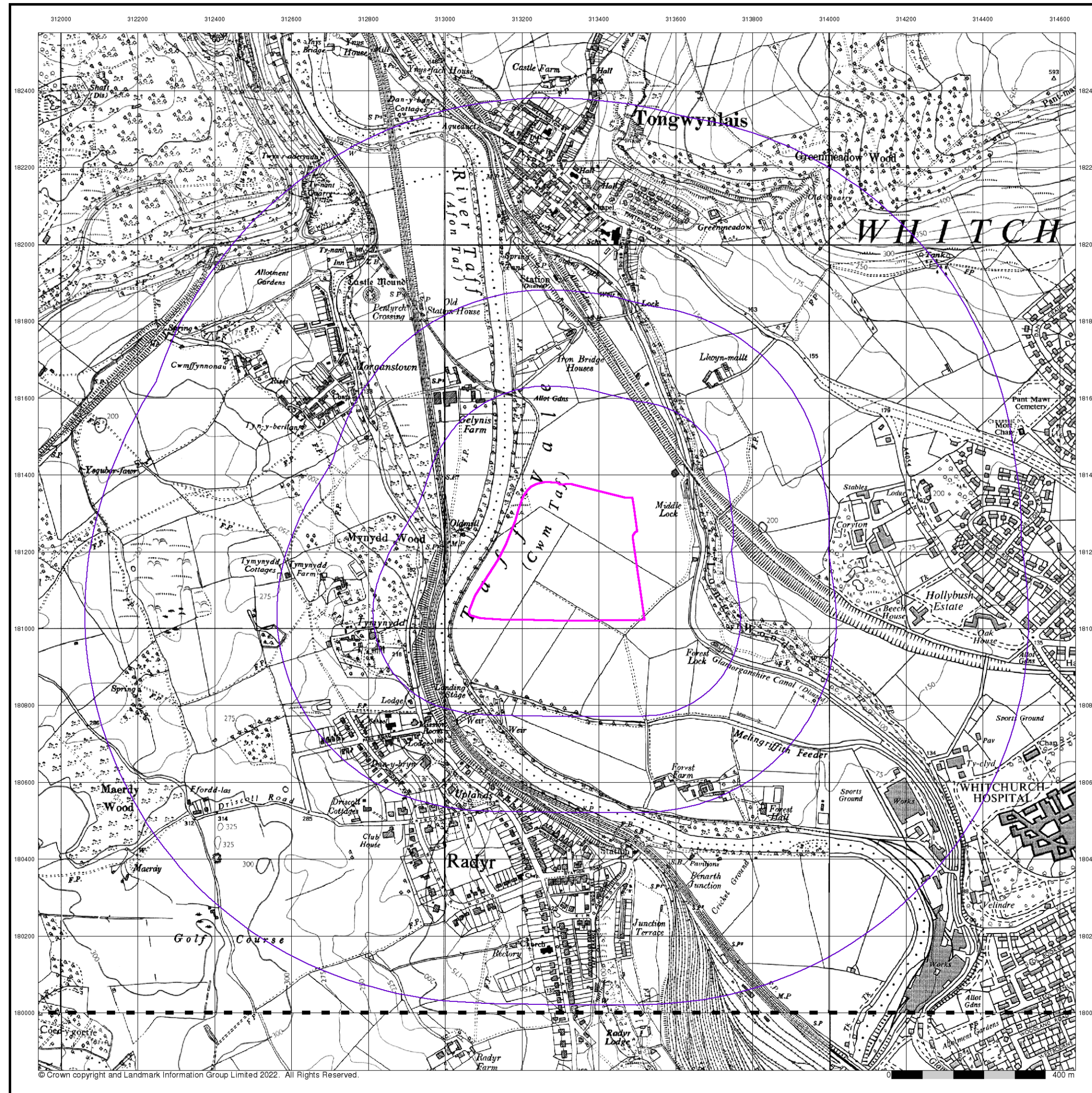
### Site Details

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## Ordnance Survey Plan

### Published 1964 - 1965

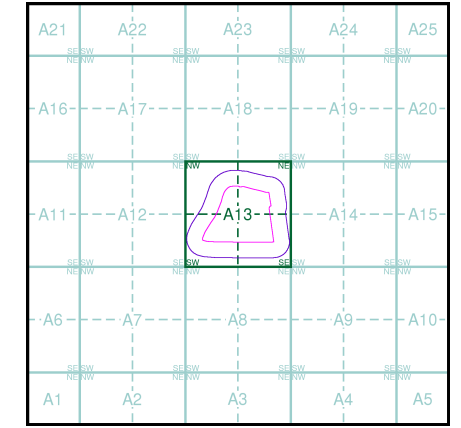
### Source map scale - 1:10,000

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

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

ST18SW	1964
1:10,560	
ST17NW	1965
1:10,560	

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

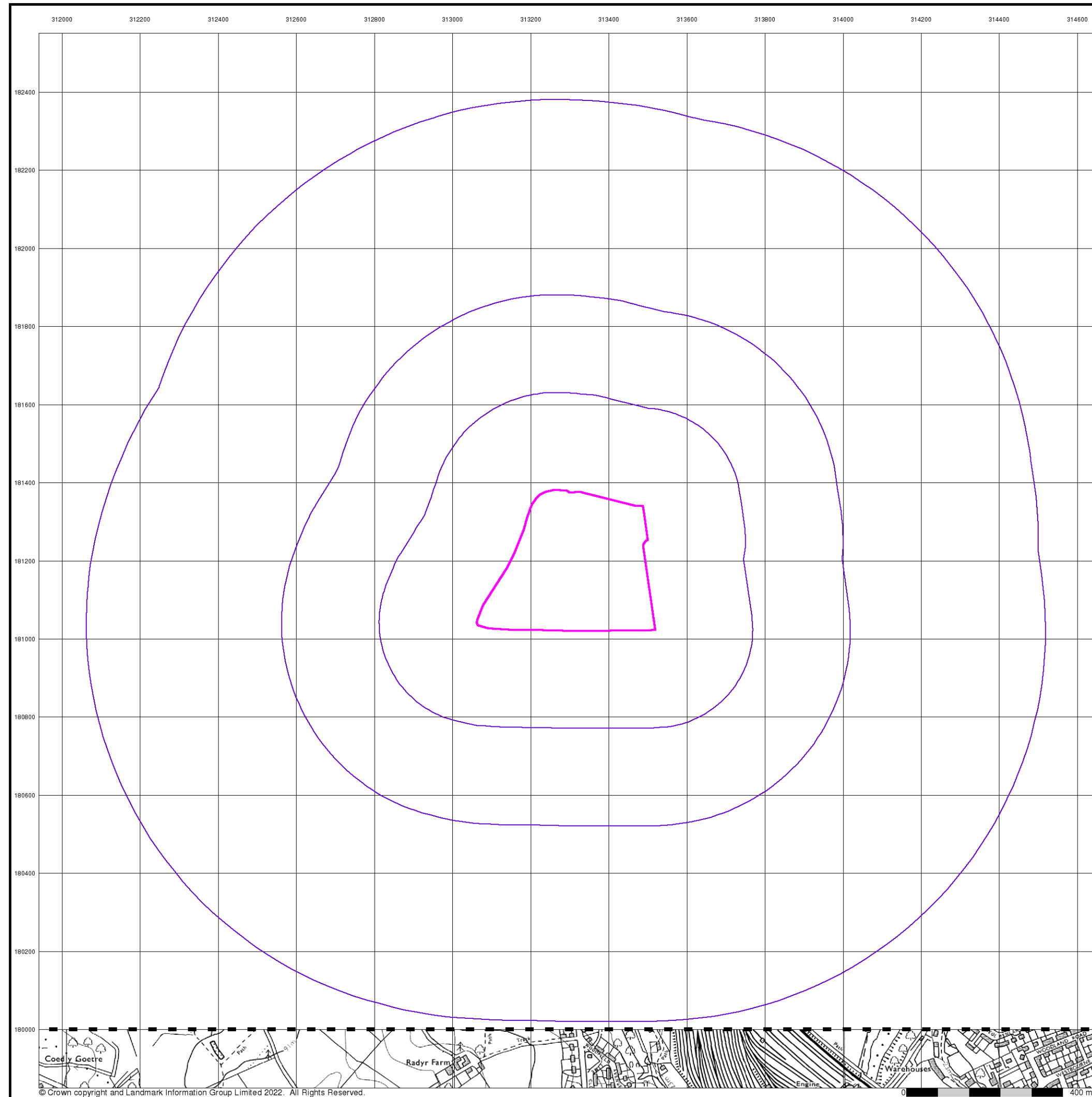
### Site Details

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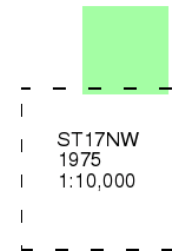
## Ordnance Survey Plan

Published 1975

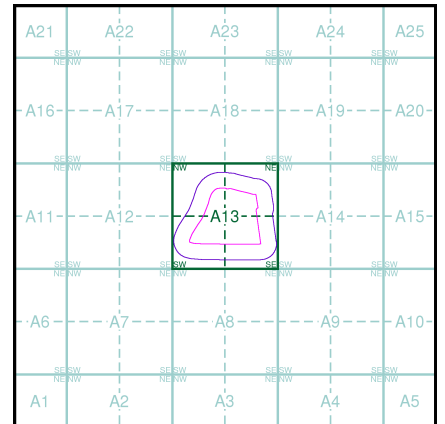
Source map scale - 1:10,000

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

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



### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

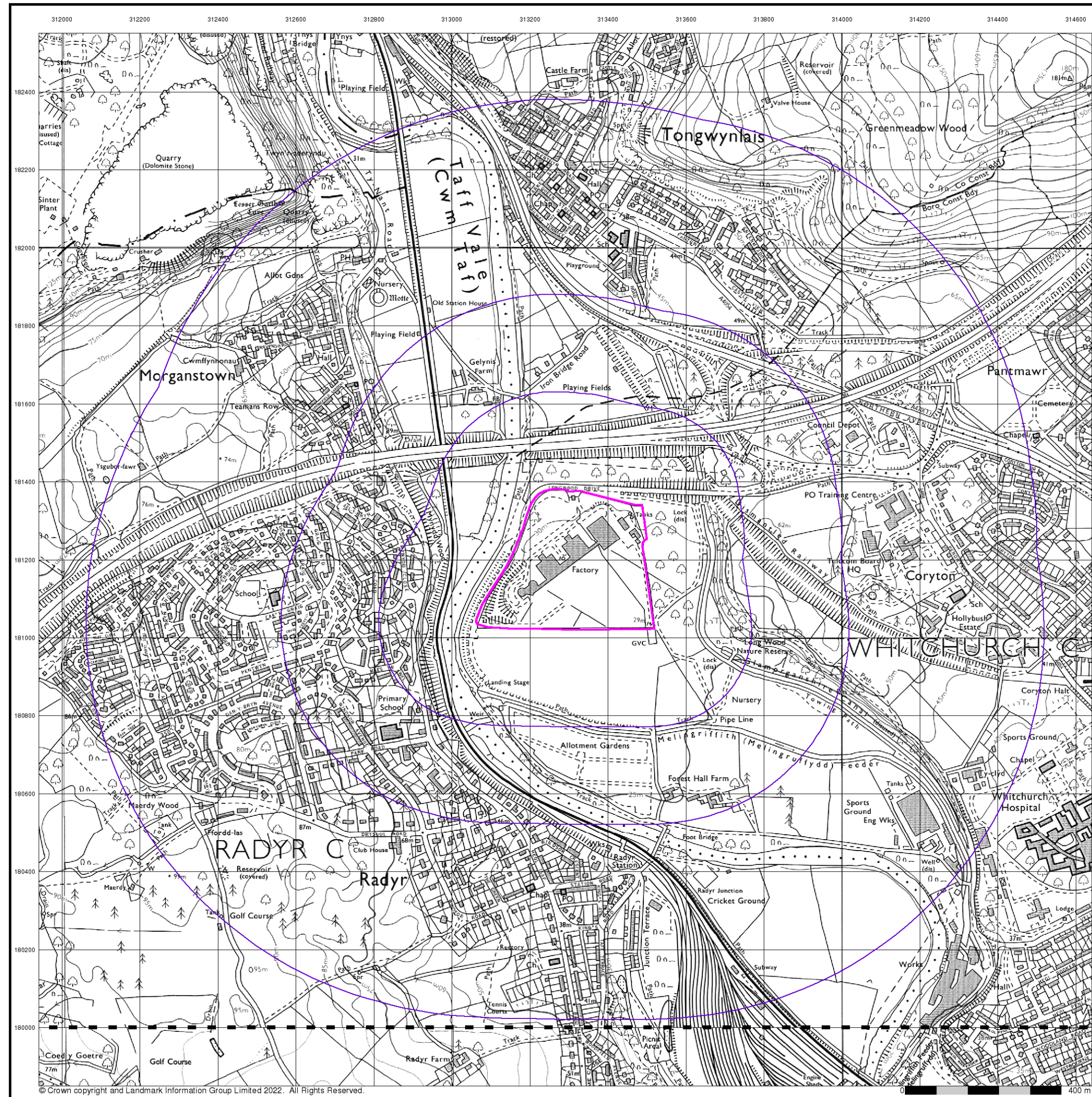
### Site Details

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## Ordnance Survey Plan

### Published 1982 - 1989

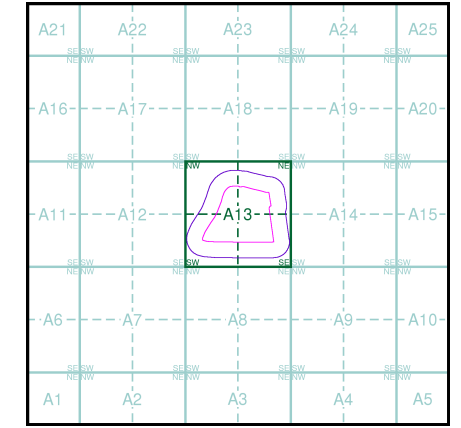
### Source map scale - 1:10,000

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)

ST18SW	1982
1:10,000	
ST17NW	1989
1:10,000	

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

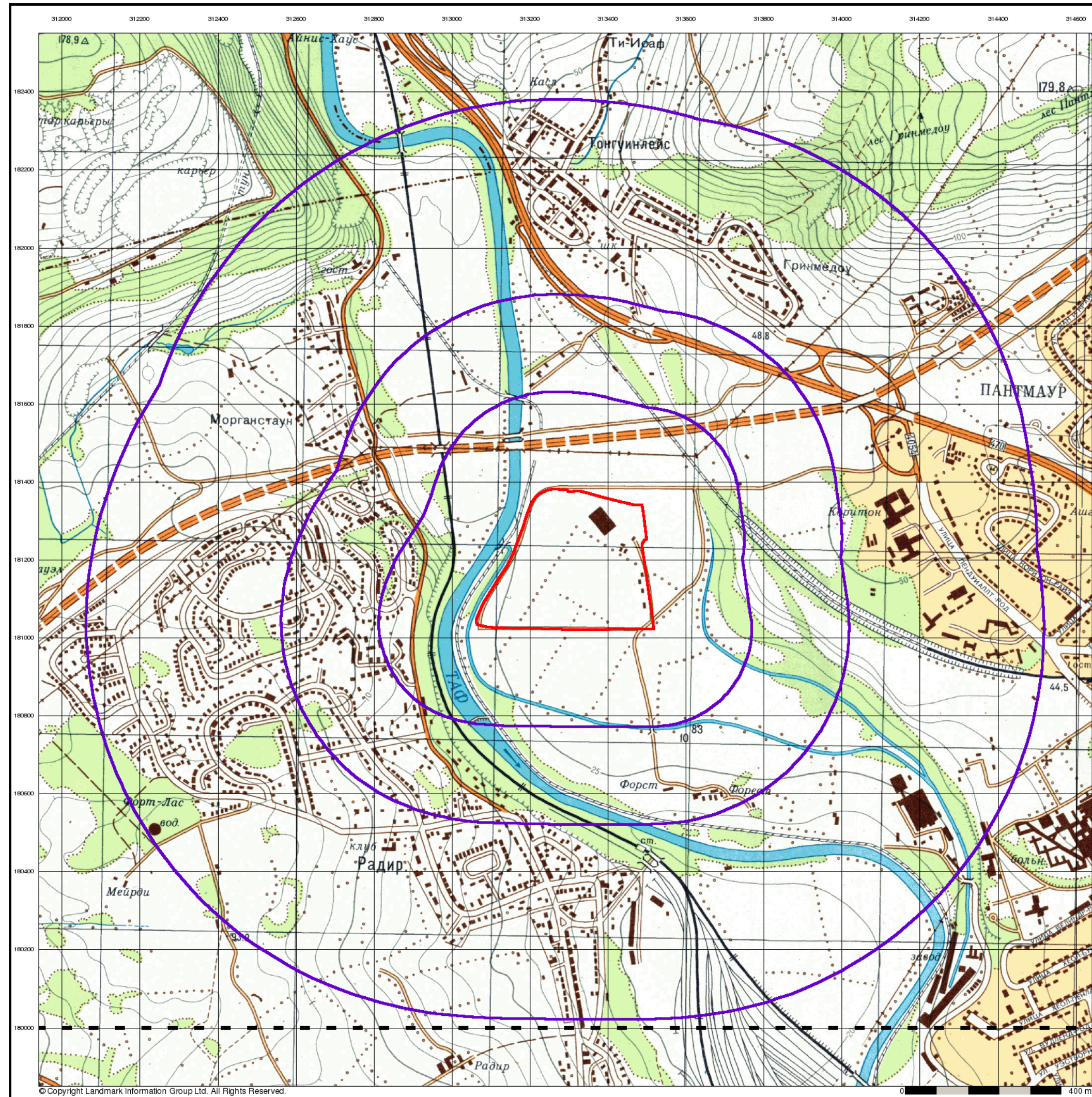
### Site Details

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## Cardiff

Published 1982

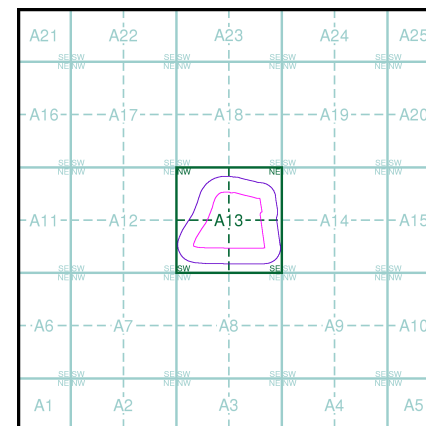
Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

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

ST18SW  
1982  
1:10,000  
ST17NW  
1982  
1:10,000

### Russian Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

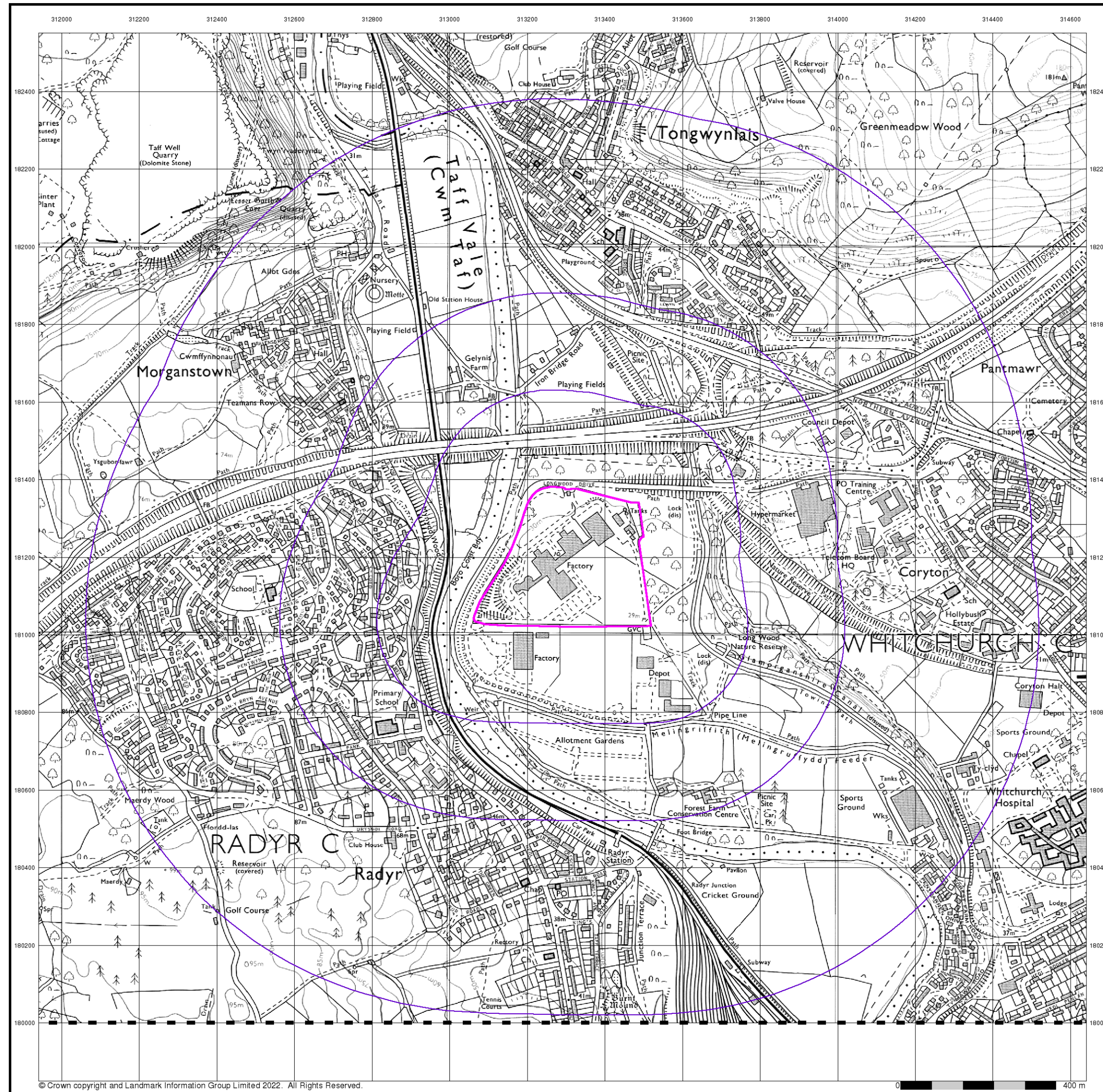
### Site Details

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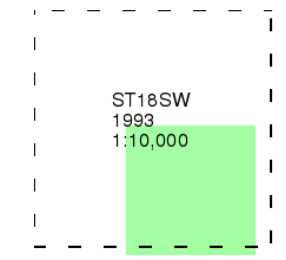
## Ordnance Survey Plan

### Published 1993

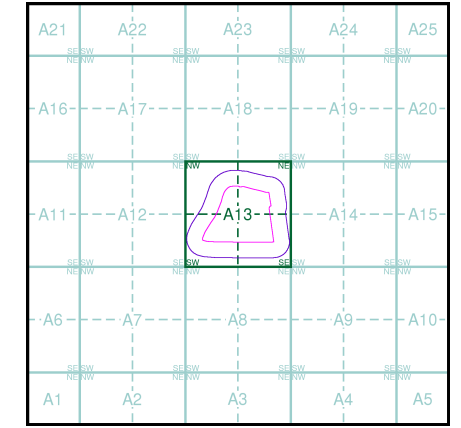
### Source map scale - 1:10,000

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

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



### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

### Site Details

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## 10k Raster Mapping

### Published 1999

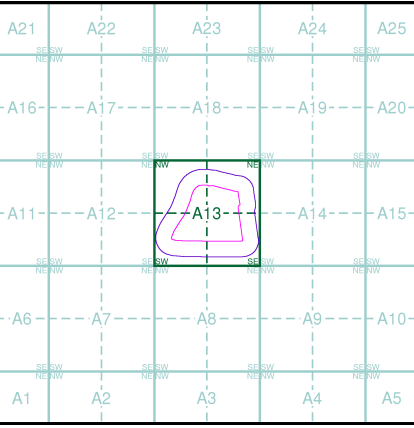
### Source map scale - 1:10,000

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

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

ST18SW	1999	1:10,000
ST17NW	1999	1:10,000

### Historical Map - Slice A



### Order Details

Order Number:	294881209_1_1
Customer Ref:	21-712
National Grid Reference:	313310, 181170
Slice:	A
Site Area (Ha):	12.33
Search Buffer (m):	1000

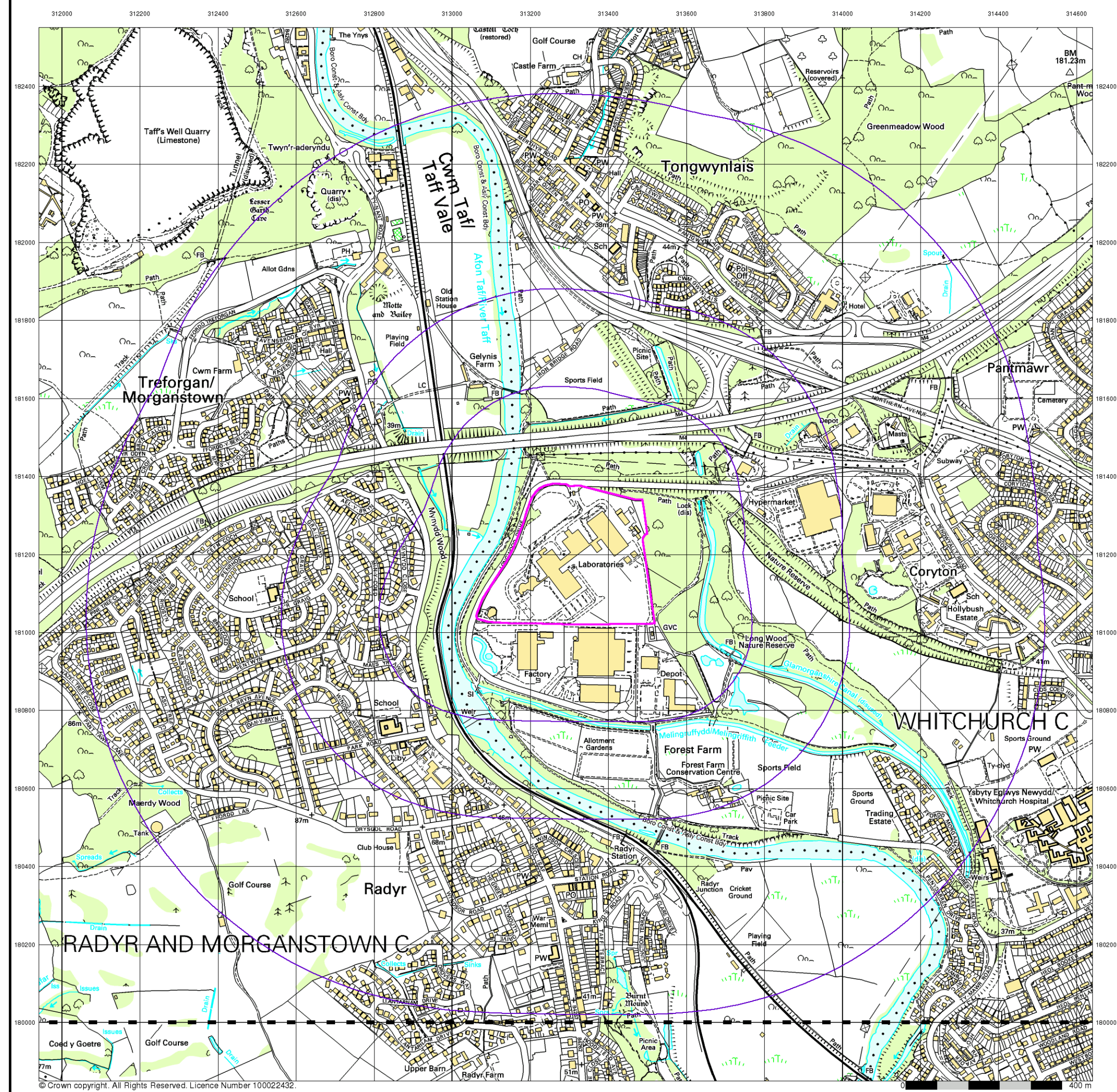
### Site Details

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# 10k Raster Mapping

## Published 2006

### Source map scale - 1:10,000

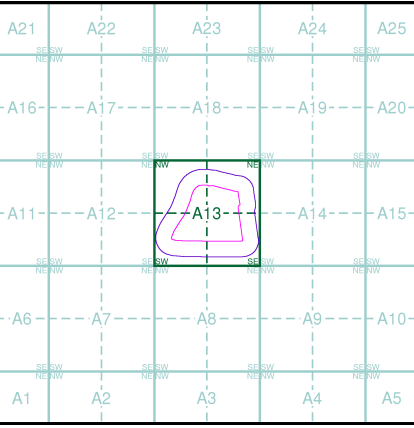
The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks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

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

ST18SW  
2006  
1:10,000

ST17NW  
2006  
1:10,000

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

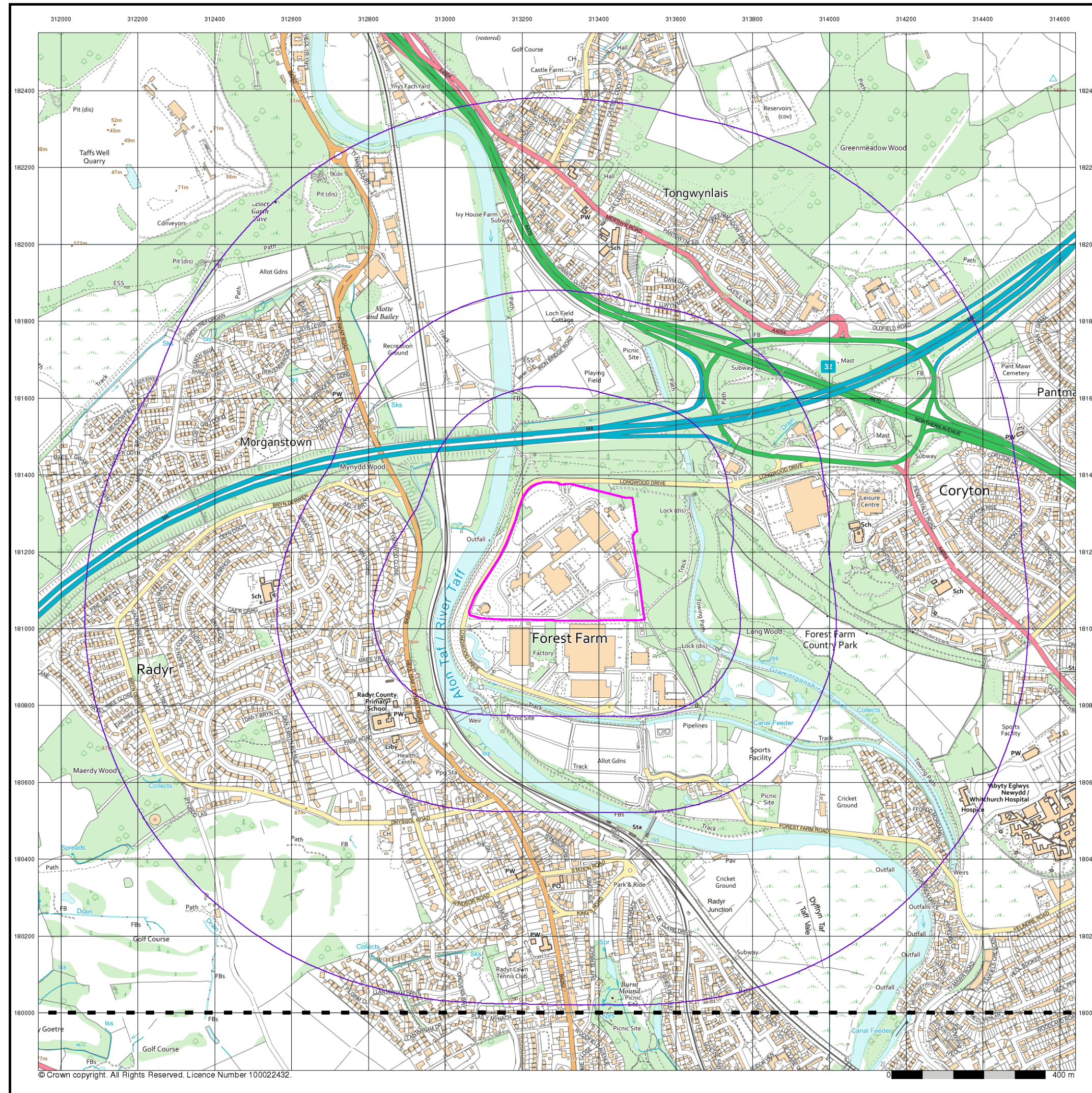
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## VectorMap Local

### Published 2021

### Source map scale - 1:10,000

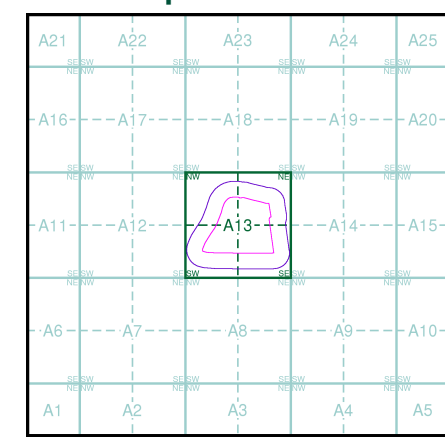
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap 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)

ST18SW  
2021  
Variable

ST17NW  
2021  
Variable

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

### Site Details

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# Historical Mapping Legends

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



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



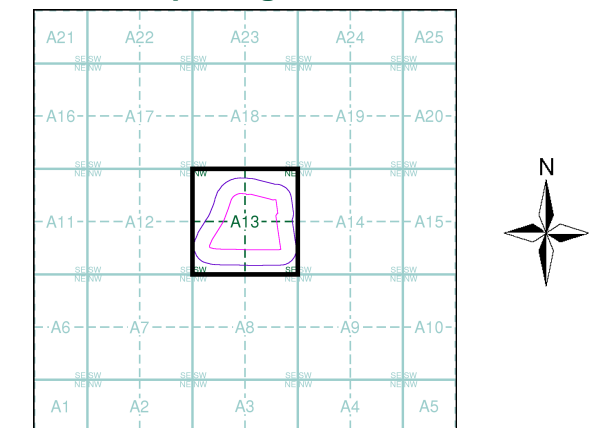
## Large-Scale National Grid Data 1:2,500 and 1:1,250



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1875	2
Glamorganshire	1:2,500	1900	3
Glamorganshire	1:2,500	1920	4
Glamorganshire	1:2,500	1940	5
Ordnance Survey Plan	1:2,500	1969 - 1970	6
Ordnance Survey Plan	1:2,500	1975	7
Ordnance Survey Plan	1:2,500	1982	8
Additional SIMs	1:2,500	1986 - 1989	9
Additional SIMs	1:2,500	1989	10
Additional SIMs	1:2,500	1991	11
Ordnance Survey Plan	1:2,500	1992	12
Large-Scale National Grid Data	1:2,500	1992	13
Historical Aerial Photography	1:2,500	2000	14

## Historical Map - Segment A13



## Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

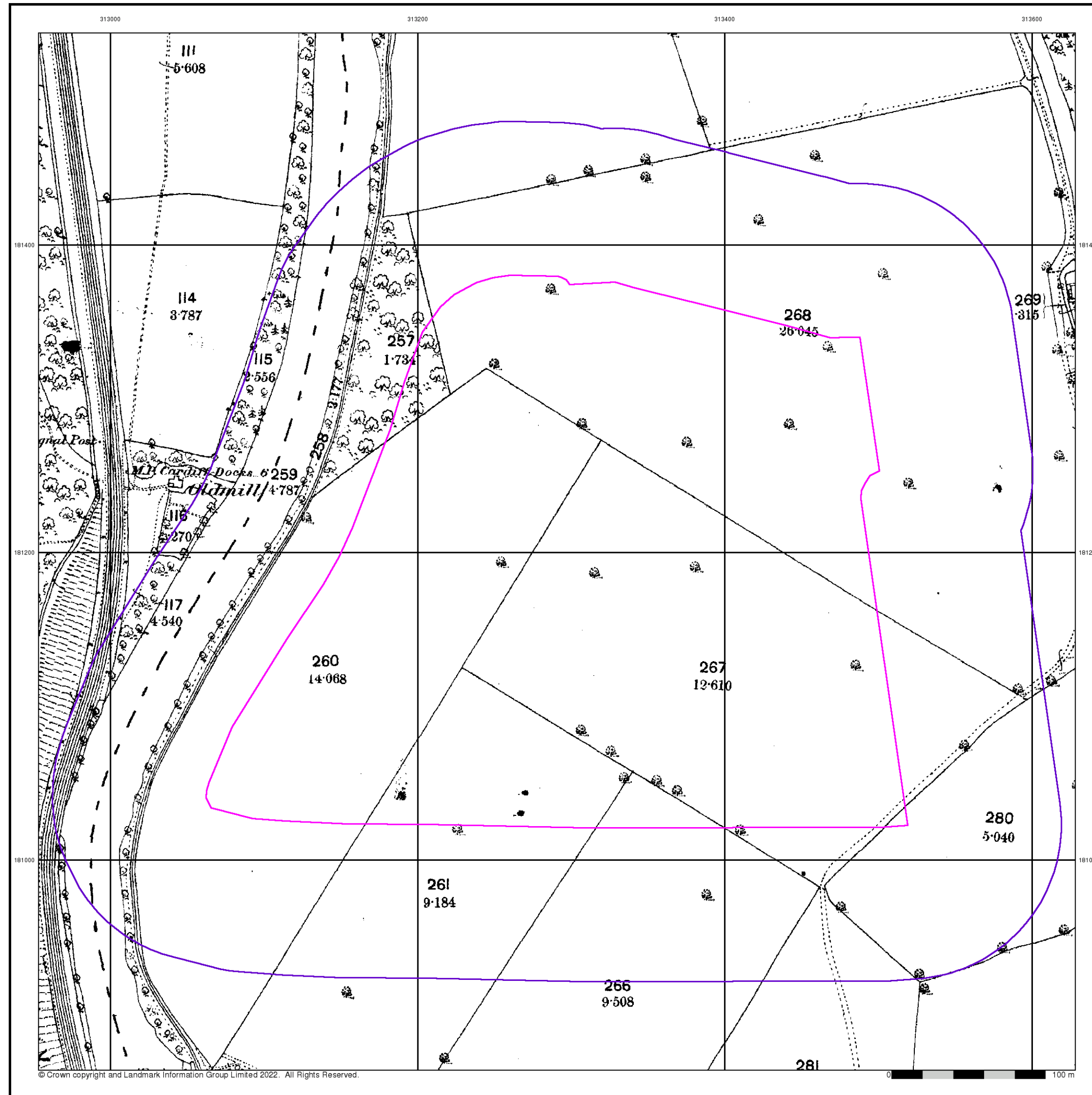
## Site Details

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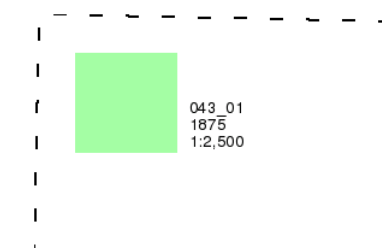
**Glamorganshire**

**Published 1875**

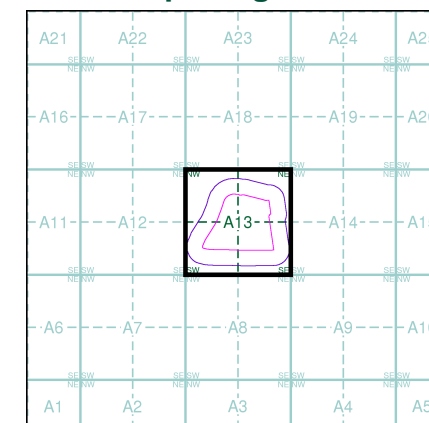
**Source map scale - 1:2,500**

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

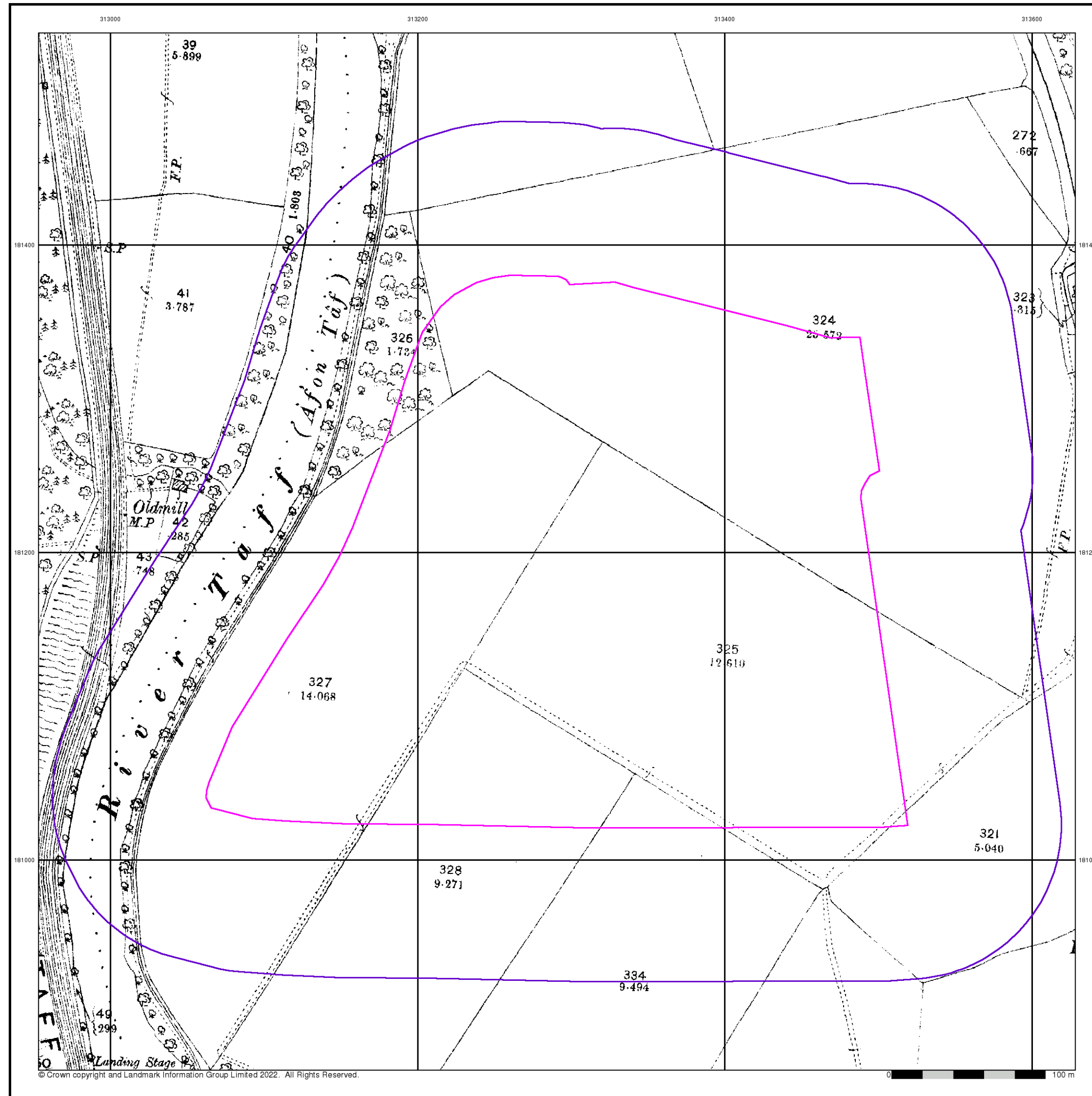
Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

### Site Details

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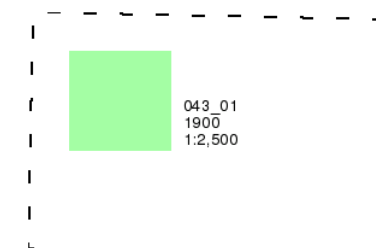
**Glamorganshire**

**Published 1900**

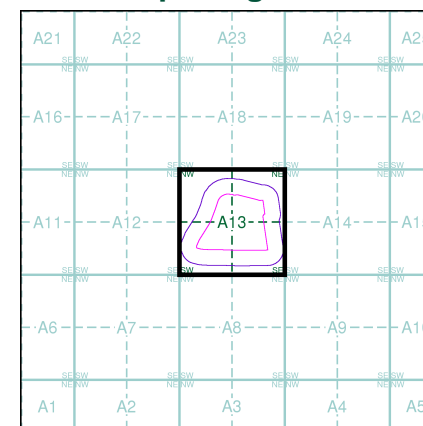
**Source map scale - 1:2,500**

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: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

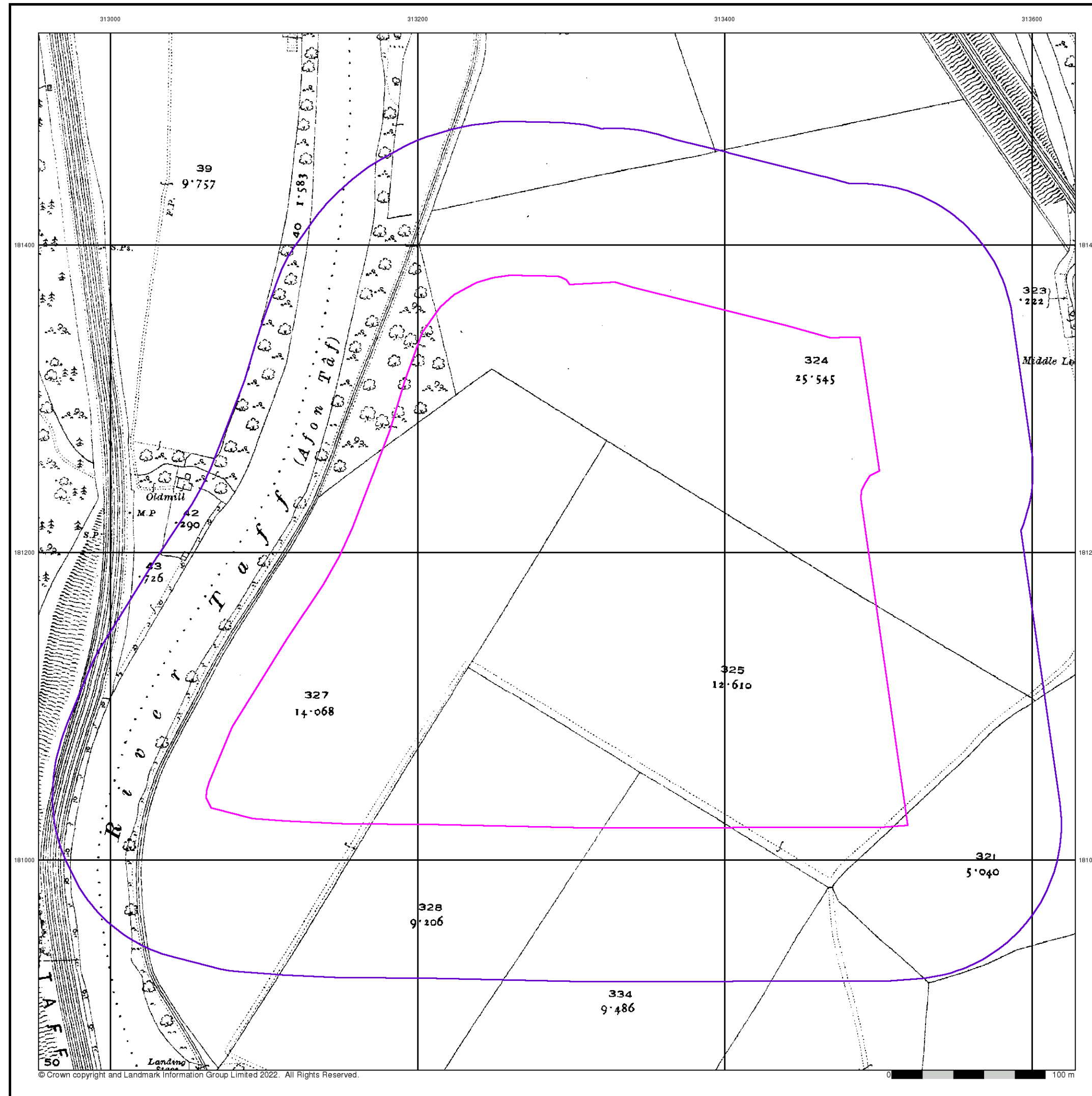
### Site Details

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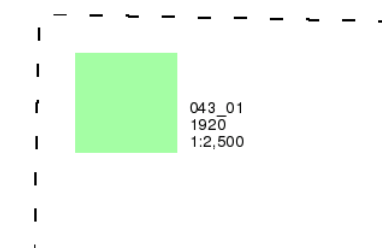
## Glamorganshire

Published 1920

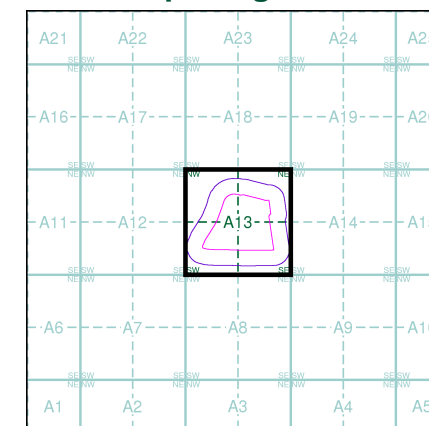
Source map scale - 1:2,500

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

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



### Historical Map - Segment A13



### Order Details

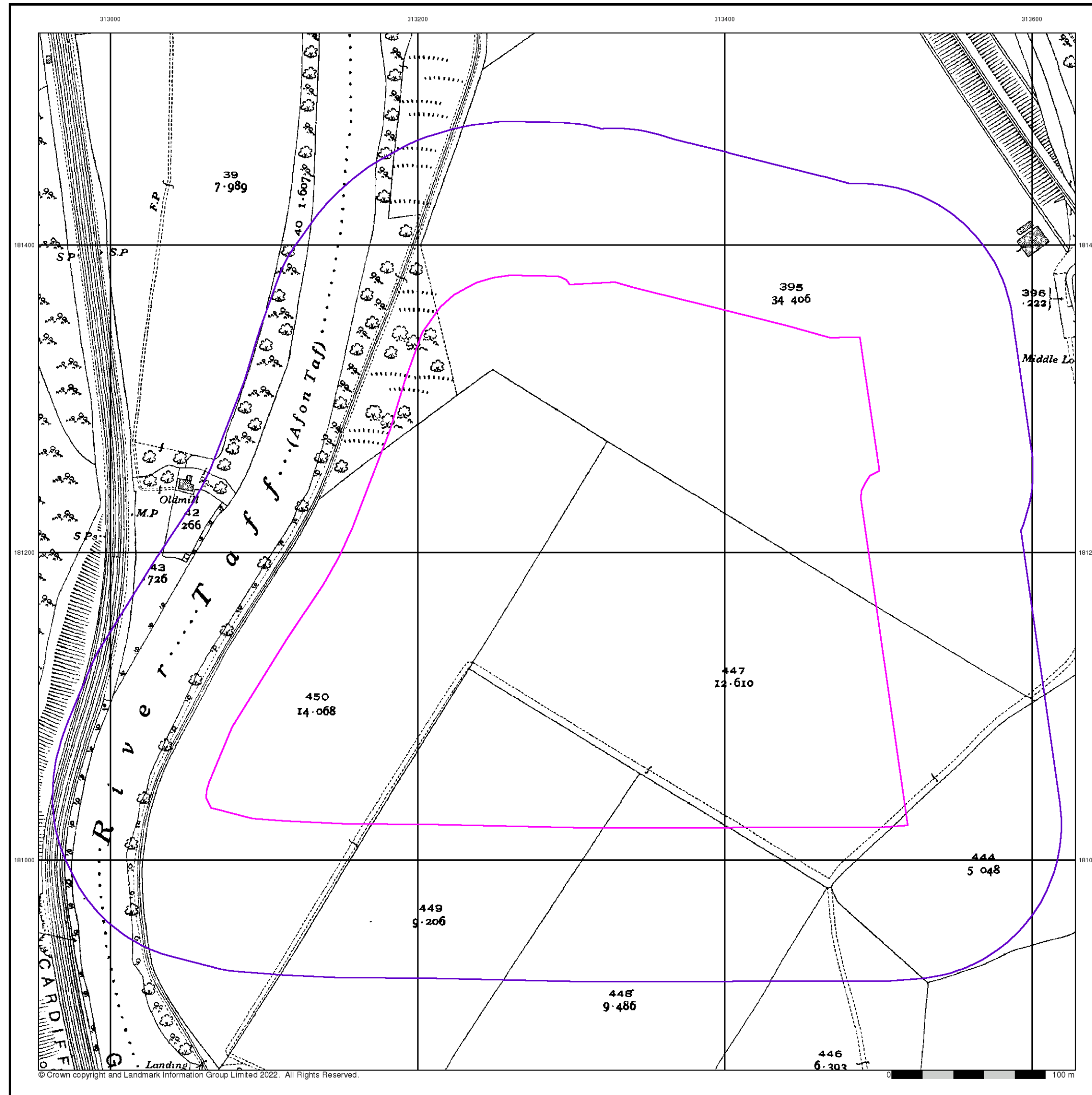
Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

### Site Details

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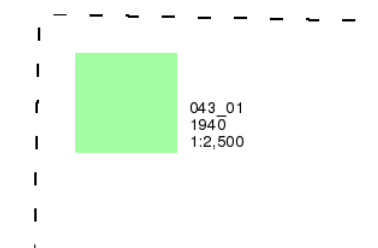
## Glamorganshire

Published 1940

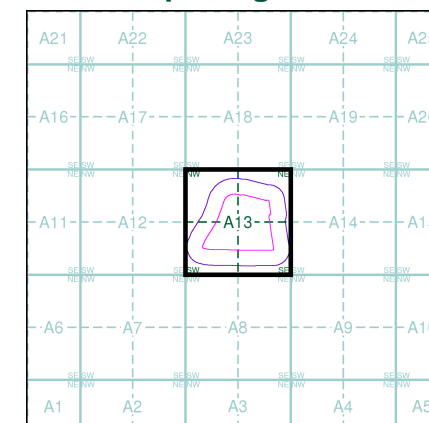
Source map scale - 1:2,500

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: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

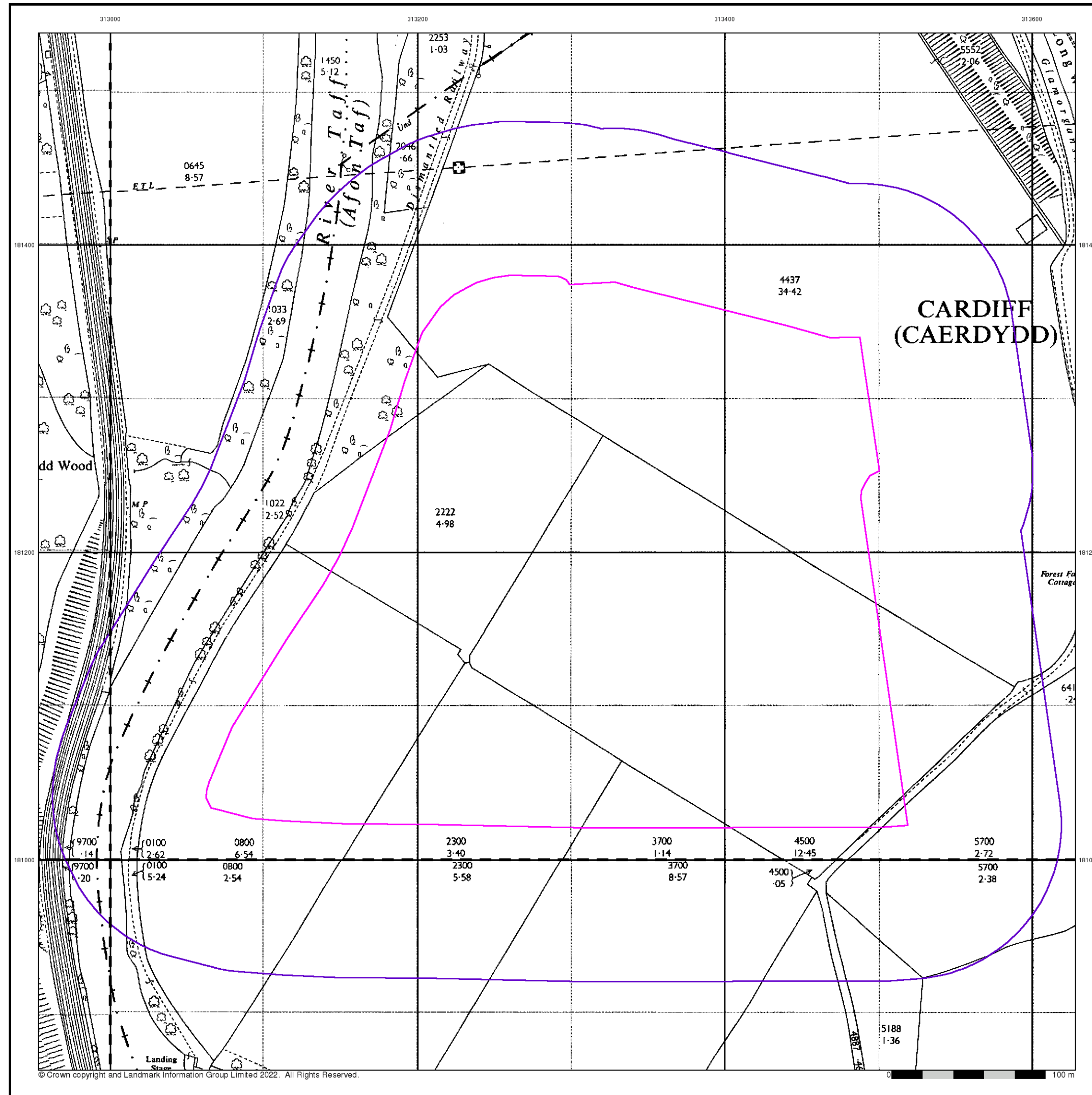
### Site Details

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## Ordnance Survey Plan

Published 1969 - 1970

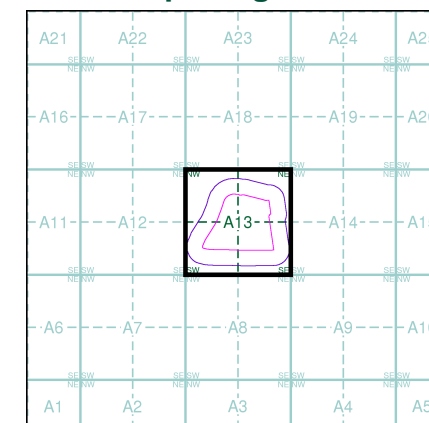
Source map scale - 1:2,500

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)

ST1281 1969 12,500	ST1381 1969 12,500
ST1280 1970 12,500	ST1380 1970 12,500

### Historical Map - Segment A13



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

### Site Details

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## Ordnance Survey Plan

Published 1975

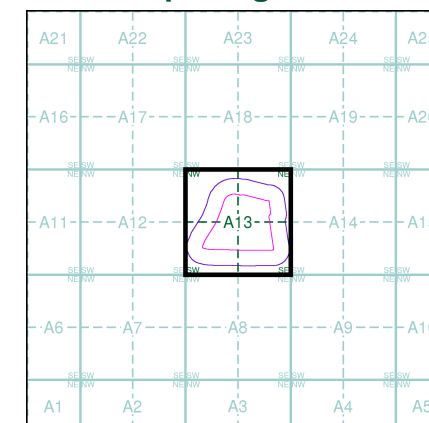
Source map scale - 1:2,500

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)

ST1281 1975 12,500	ST1381 1975 12,500
ST1280 1975 12,500	ST1380 1975 12,500

### Historical Map - Segment A13



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

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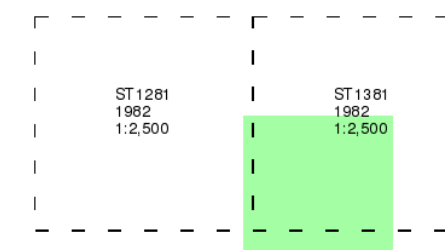
## Ordnance Survey Plan

Published 1982

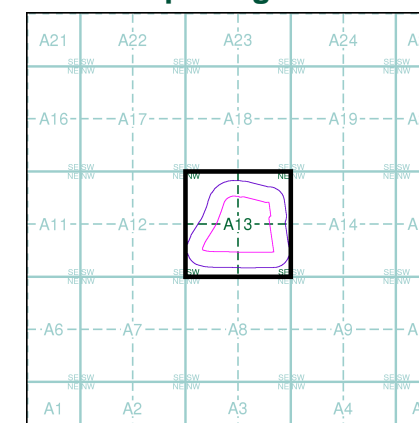
Source map scale - 1:2,500

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

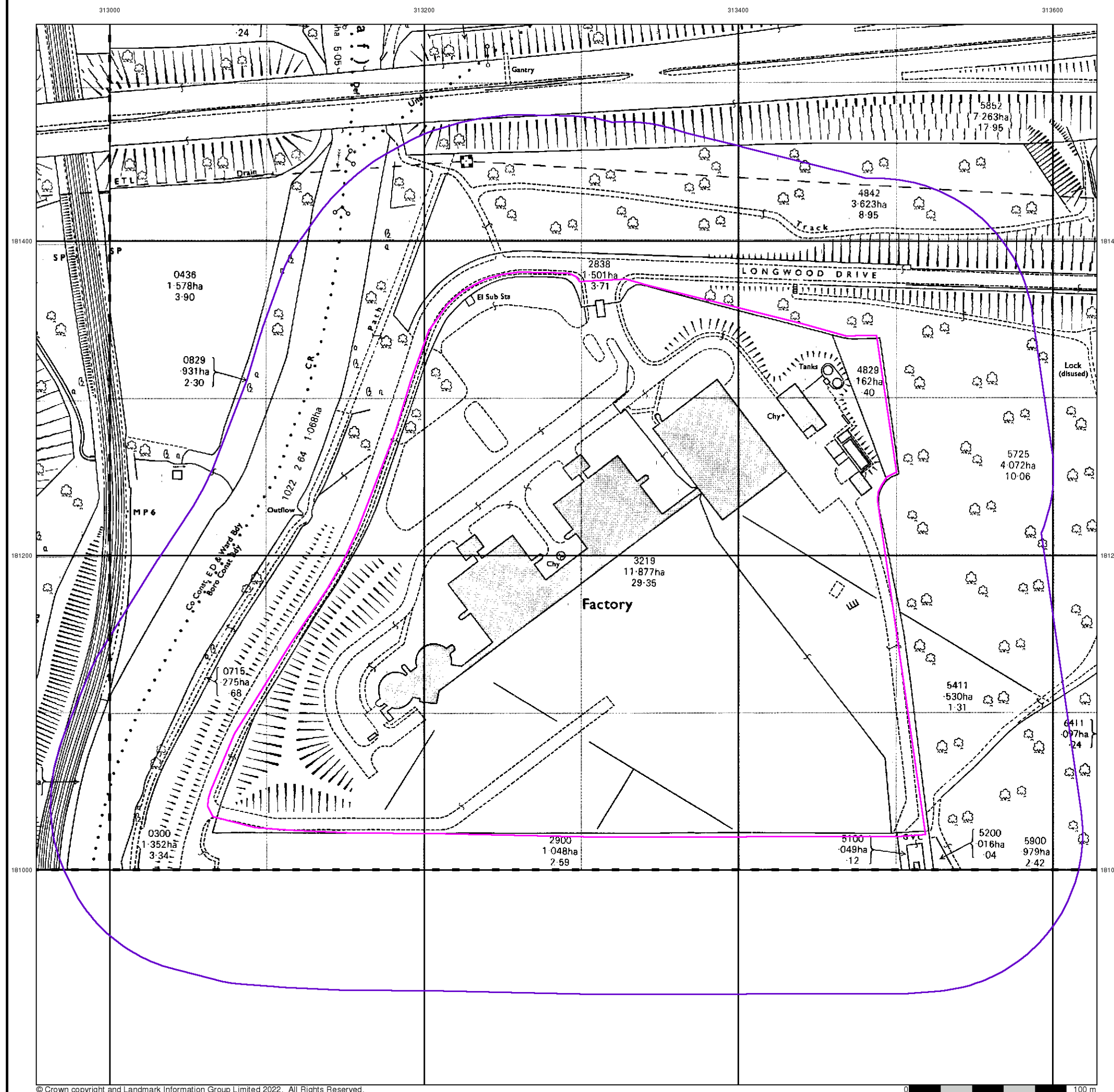
Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

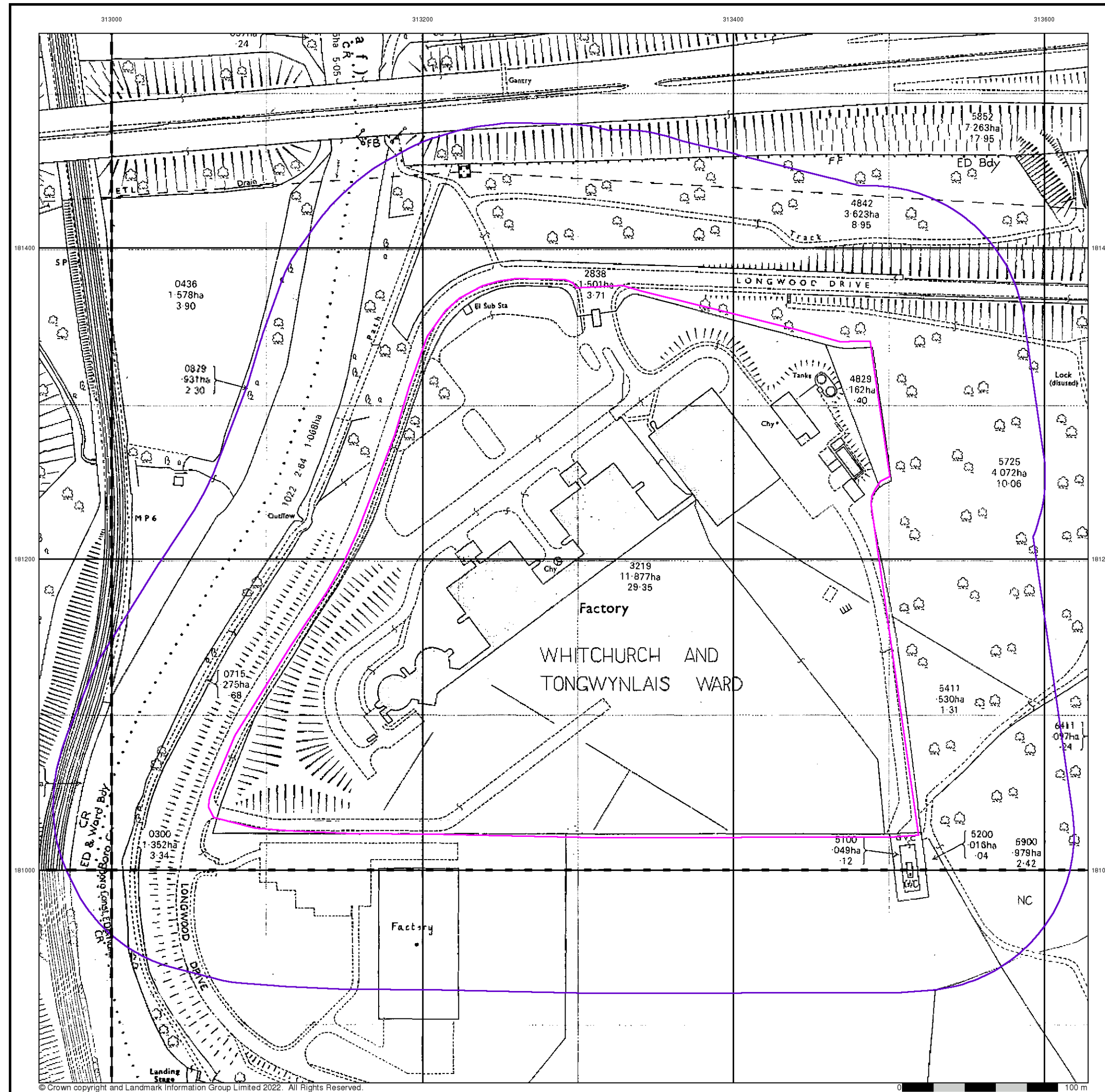
### Site Details

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## Additional SIMs

Published 1986 - 1989

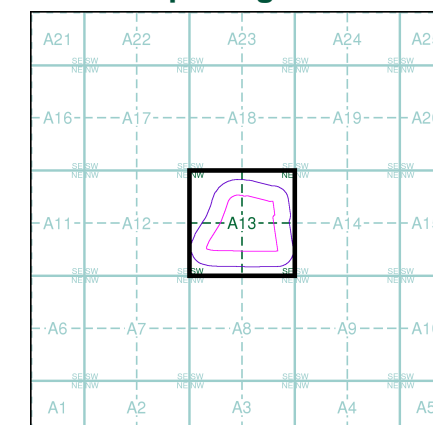
Source map scale - 1:2,500

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

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

ST1281 1989 12,500	ST1381 1987 12,500
ST1280 1988 12,500	ST1380 1986 12,500

## Historical Map - Segment A13



## Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

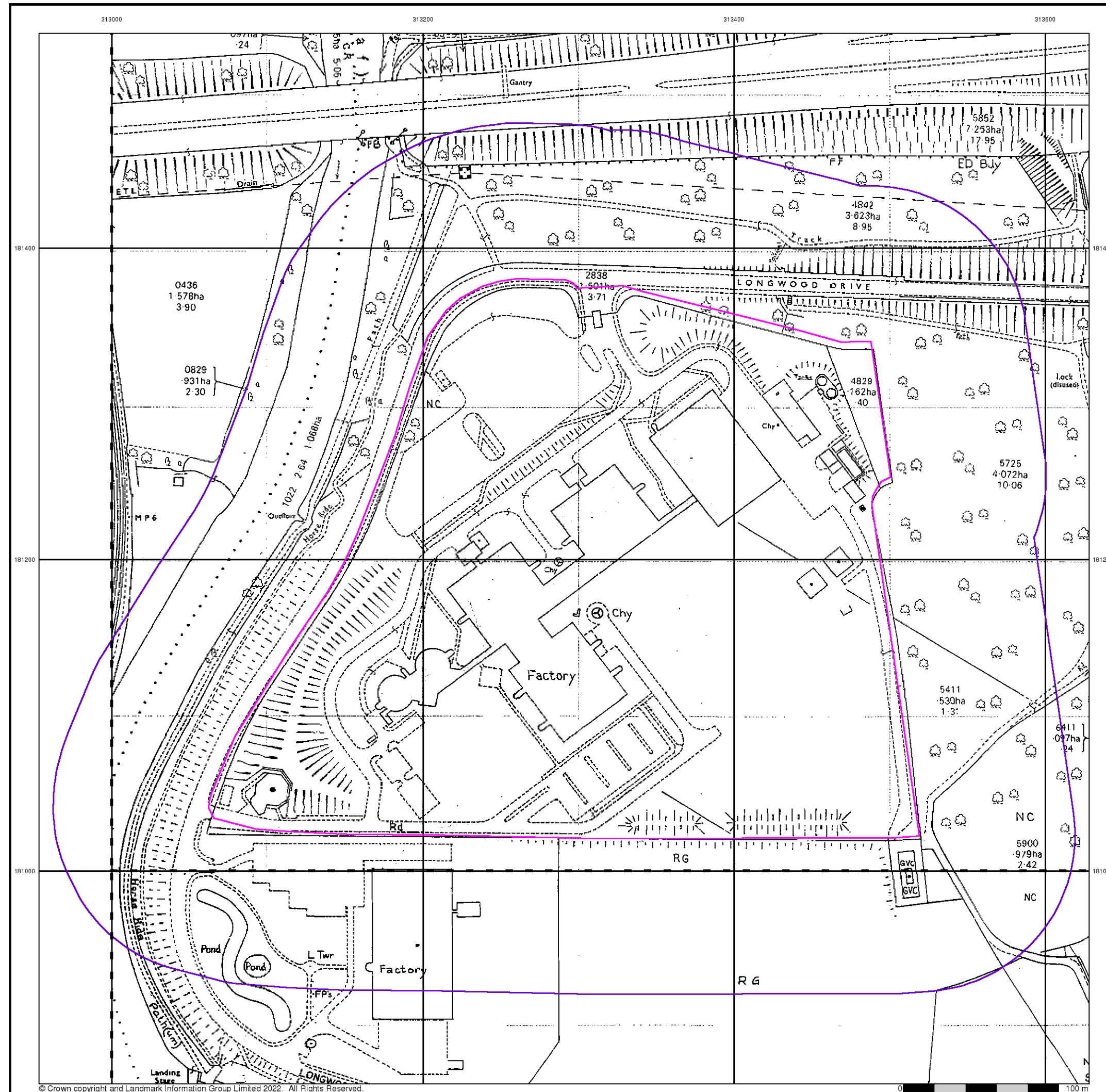
## Site Details

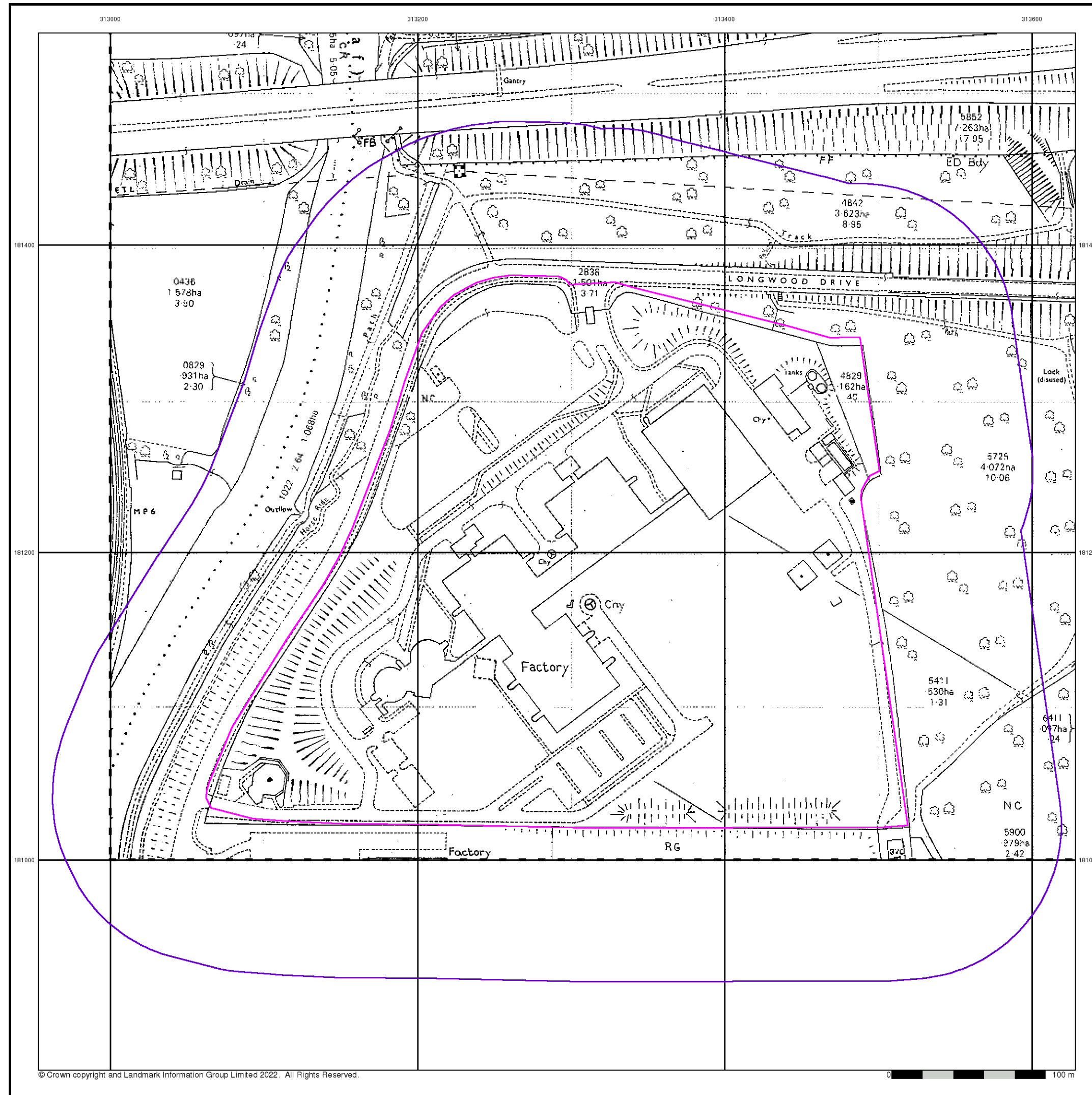
Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU

**Landmark**  
INFORMATION GROUP

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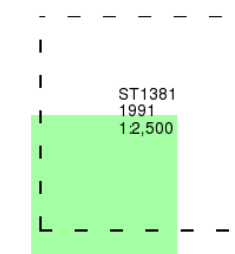
## Additional SIMs

Published 1991

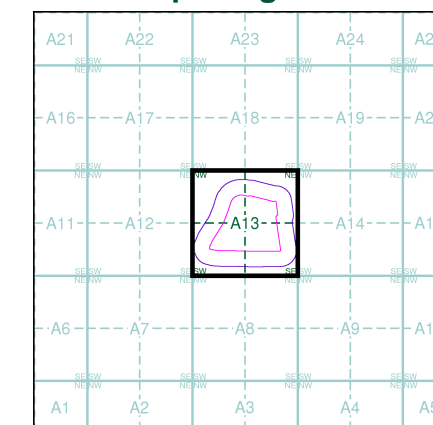
Source map scale - 1:2,500

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

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



## Historical Map - Segment A13



## Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

## Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
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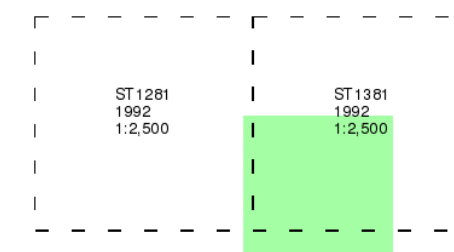
## Ordnance Survey Plan

Published 1992

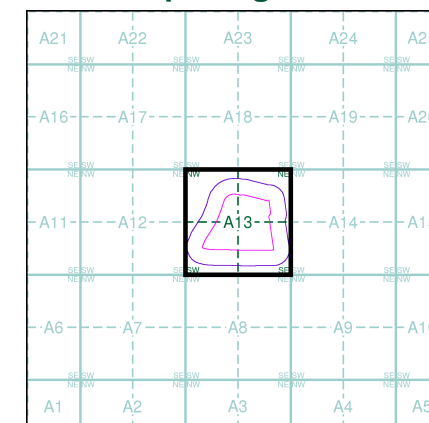
Source map scale - 1:2,500

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

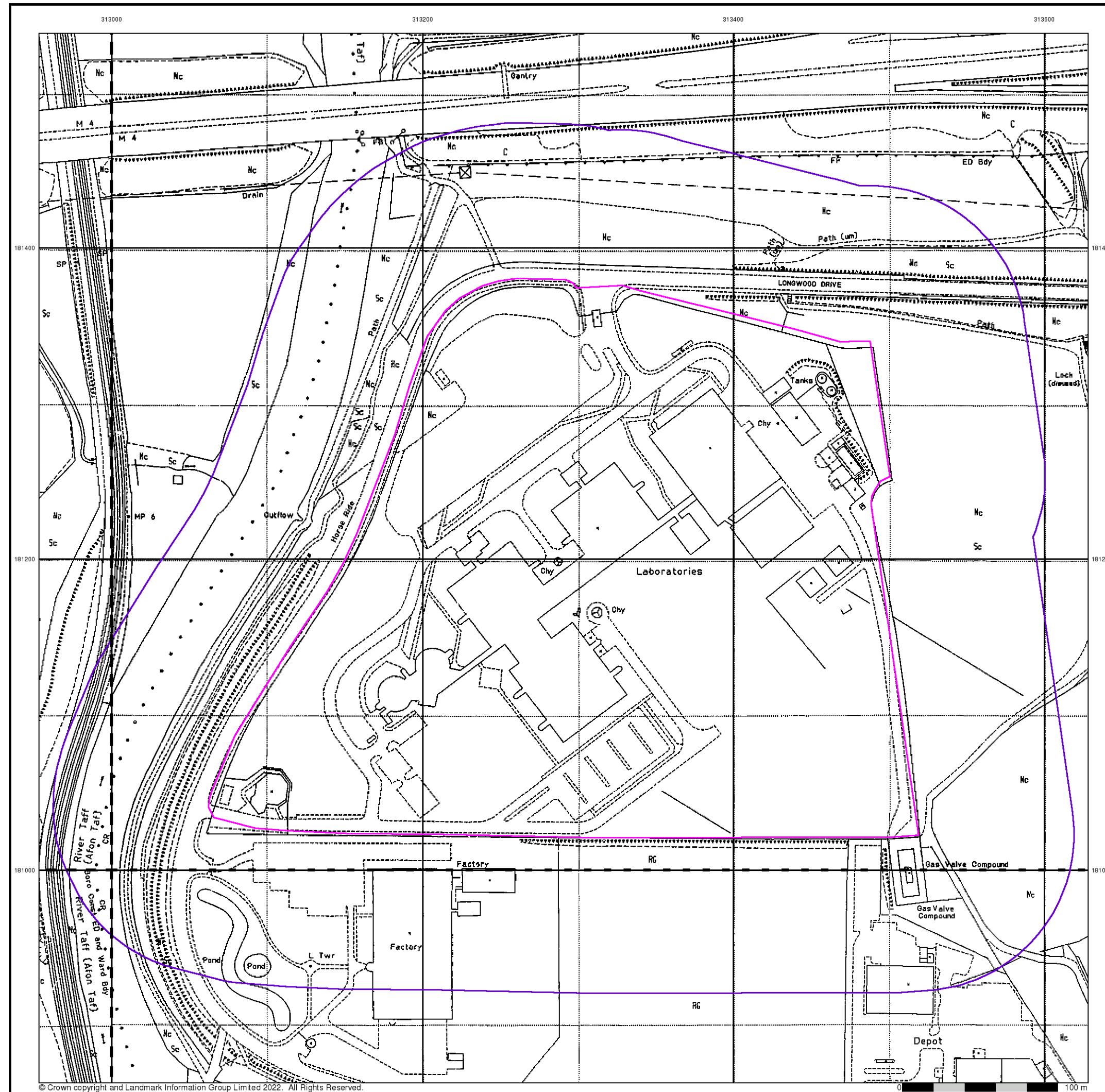
Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

### Site Details

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## Large-Scale National Grid Data

Published 1992

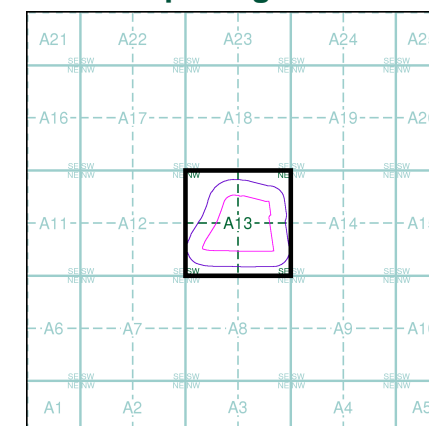
Source map scale - 1:2,500

'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)

ST1281 1992 12,500	ST1381 1992 12,500
ST1280 1992 12,500	ST1380 1992 12,500

### Historical Map - Segment A13



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

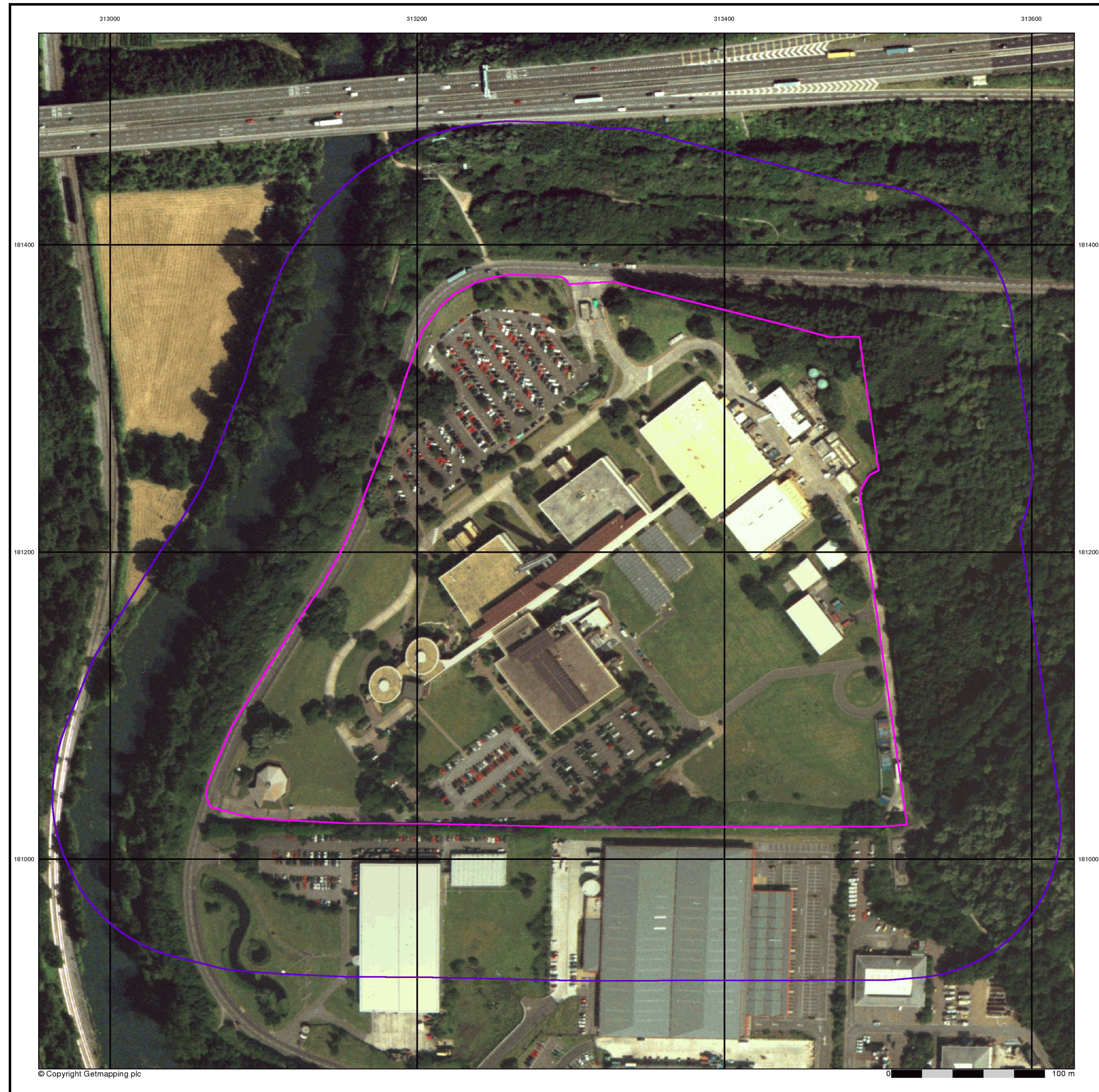
### Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch,  
CARDIFF, CF14 7YU

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INFORMATION GROUP

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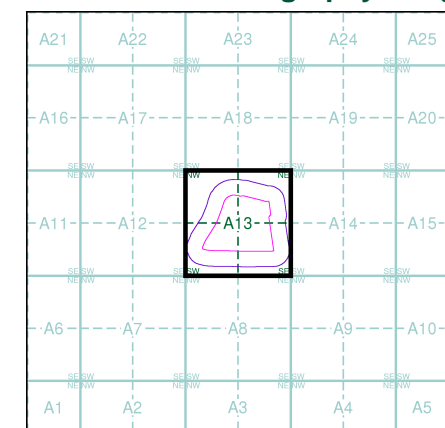


## Historical Aerial Photography

**Published 2000**

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

### Historical Aerial Photography - Segment A13



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 100

### Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU



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# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560

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

## Ordnance Survey Plan 1:10,000

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

## 1:10,000 Raster Mapping

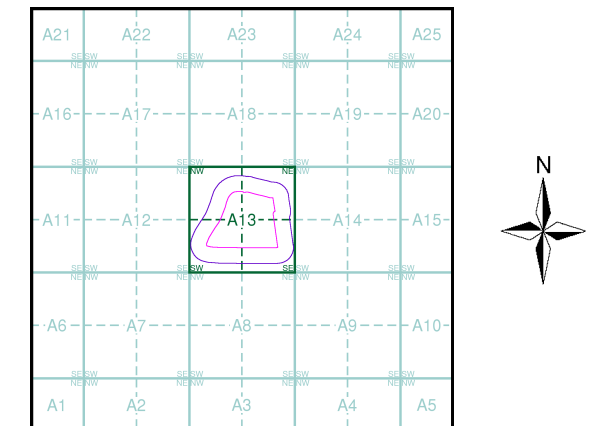
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1885	3
Glamorganshire	1:10,560	1885 - 1886	4
Glamorganshire	1:10,560	1900 - 1901	5
Glamorganshire	1:10,560	1921 - 1922	6
Glamorganshire	1:10,560	1938 - 1951	7
Historical Aerial Photography	1:10,560	1947 - 1949	8
Historical Aerial Photography	1:10,560	1947	9
Glamorganshire	1:10,560	1952 - 1953	10
Ordnance Survey Plan	1:10,000	1964 - 1965	11
Ordnance Survey Plan	1:10,000	1975	12
Ordnance Survey Plan	1:10,000	1982 - 1989	13
Cardiff	1:10,000	1982	14
Ordnance Survey Plan	1:10,000	1993	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2021	18

## Historical Map - Slice A



## Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

## Site Details

Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU

**Landmark**  
INFORMATION GROUP

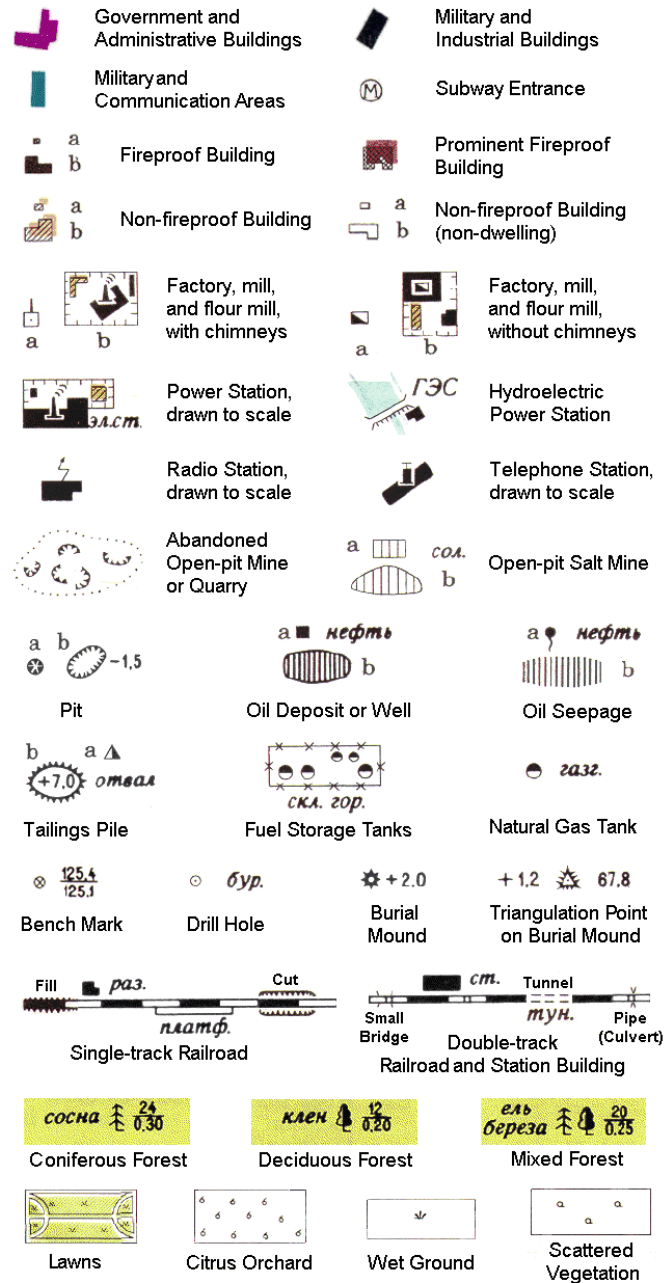
Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



# Russian Military Mapping Legends

## 1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale



**243.8** Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0.2 Velocity of the current, width of river bed, depth of river

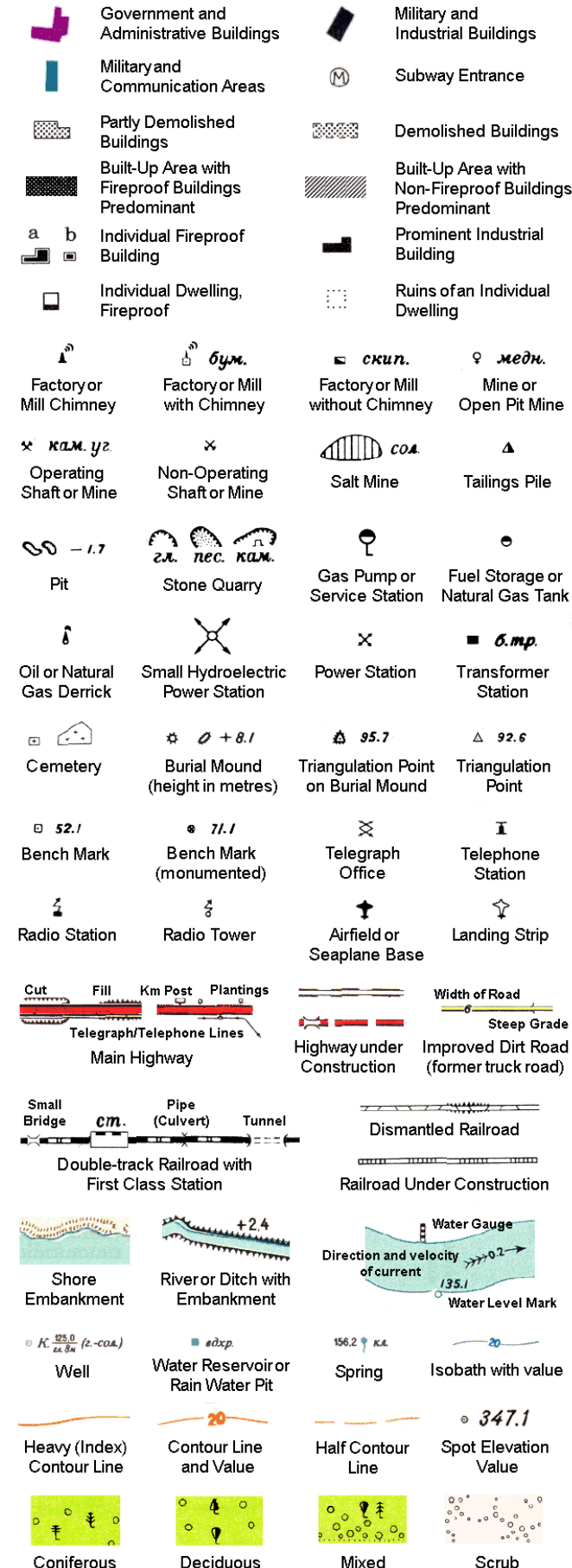
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

**Russian Alphabet** (For reference and phonetic interpretation of map text)

<b>А а (A)</b>	<b>З з (Z)</b>	<b>П п (P)</b>	<b>Ч ч (CH)</b>
<b>Б б (B)</b>	<b>И и (I)</b>	<b>Р р (R)</b>	<b>Ш ш (SH)</b>
<b>В в (V)</b>	<b>Й й (Y)</b>	<b>С с (S)</b>	<b>Щ щ (SHCH)</b>
<b>Г г (G)</b>	<b>К к (K)</b>	<b>Т т (T)</b>	<b>Ъ (-)</b>
<b>Д д (D)</b>	<b>Л л (L)</b>	<b>У у (U)</b>	<b>Ы (Y)</b>
<b>Е е (E)</b>	<b>М м (M)</b>	<b>Ф ф (F)</b>	<b>Ь (')</b>
<b>Ё ё (YO)</b>	<b>Н н (N)</b>	<b>Х х (KH)</b>	<b>Э э (E)</b>
<b>Ж ж (ZH)</b>	<b>О о (O)</b>	<b>Ц ц (TS)</b>	<b>Ю ю (YU or IU)</b>
			<b>Я я (YA or IA)</b>

## 1:25,000 mapping

a. Not drawn to scale b. Drawn to scale



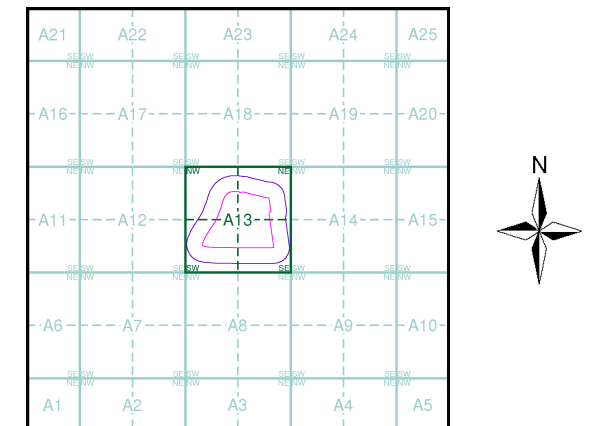
## Key to Numbers on Mapping



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1885	3
Glamorganshire	1:10,560	1885 - 1886	4
Glamorganshire	1:10,560	1900 - 1901	5
Glamorganshire	1:10,560	1921 - 1922	6
Glamorganshire	1:10,560	1938 - 1951	7
Historical Aerial Photography	1:10,560	1947 - 1949	8
Historical Aerial Photography	1:10,560	1947	9
Glamorganshire	1:10,560	1952 - 1953	10
Ordnance Survey Plan	1:10,000	1964 - 1965	11
Ordnance Survey Plan	1:10,000	1975	12
Ordnance Survey Plan	1:10,000	1982 - 1989	13
Cardiff	1:10,000	1982	14
Ordnance Survey Plan	1:10,000	1993	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2021	18

## Russian Map - Slice A



## Order Details

Order Number: 294881209\_1\_1  
 Customer Ref: 21-712  
 National Grid Reference: 313310, 181170  
 Slice: A  
 Site Area (Ha): 12.33  
 Search Buffer (m): 1000

## Site Details

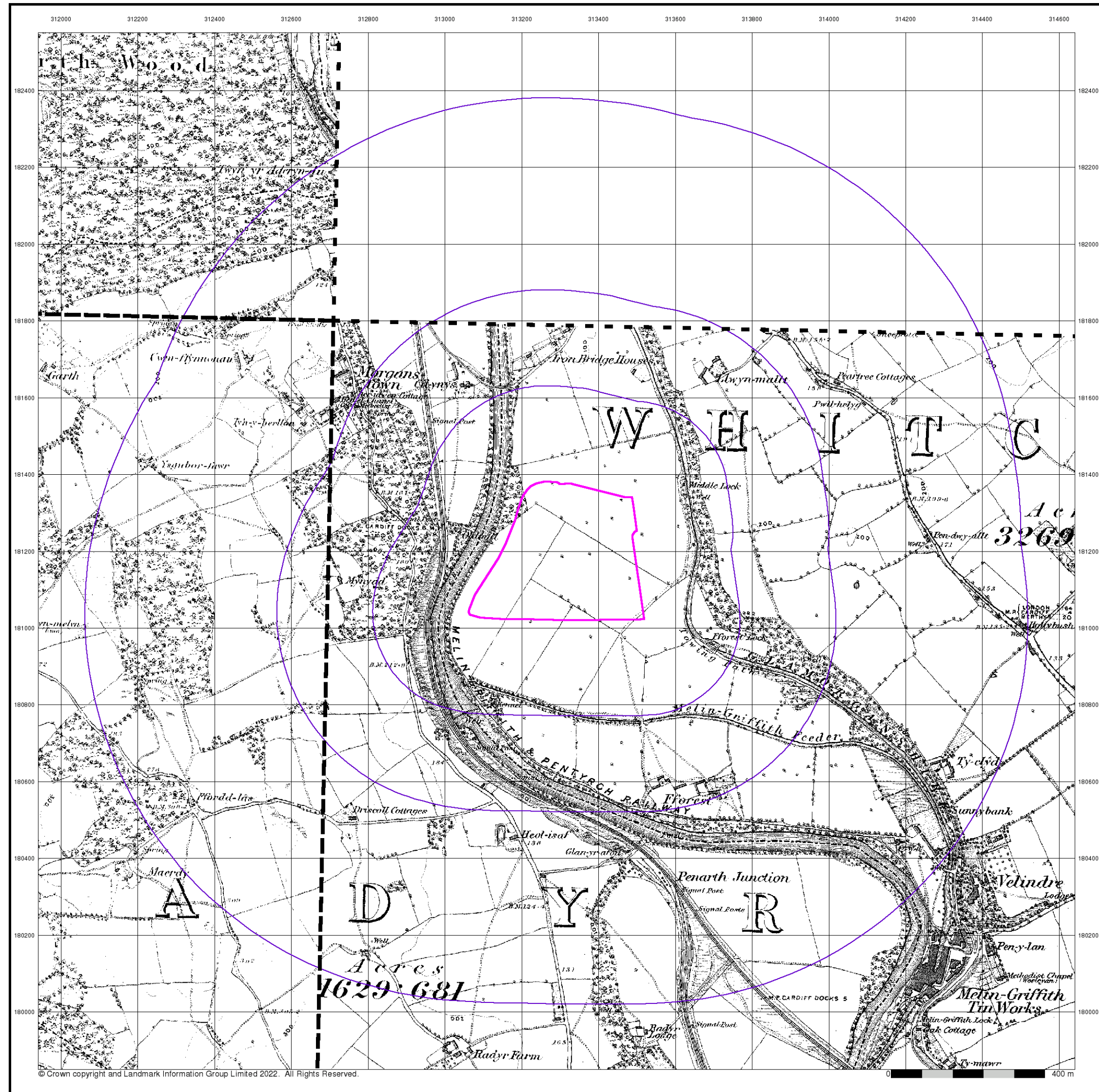
Cardiff Edge Life Sciences Park, Longwood Drive, Whitchurch, CARDIFF, CF14 7YU

**Landmark**  
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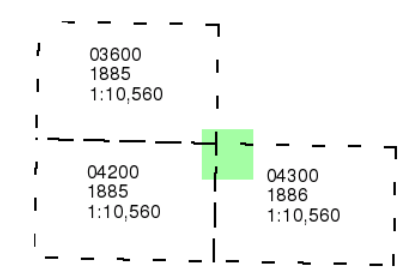
## Glamorganshire

Published 1885 - 1886

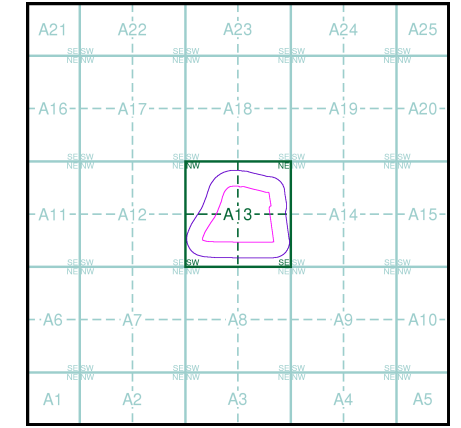
Source map scale - 1:10,560

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

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



### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

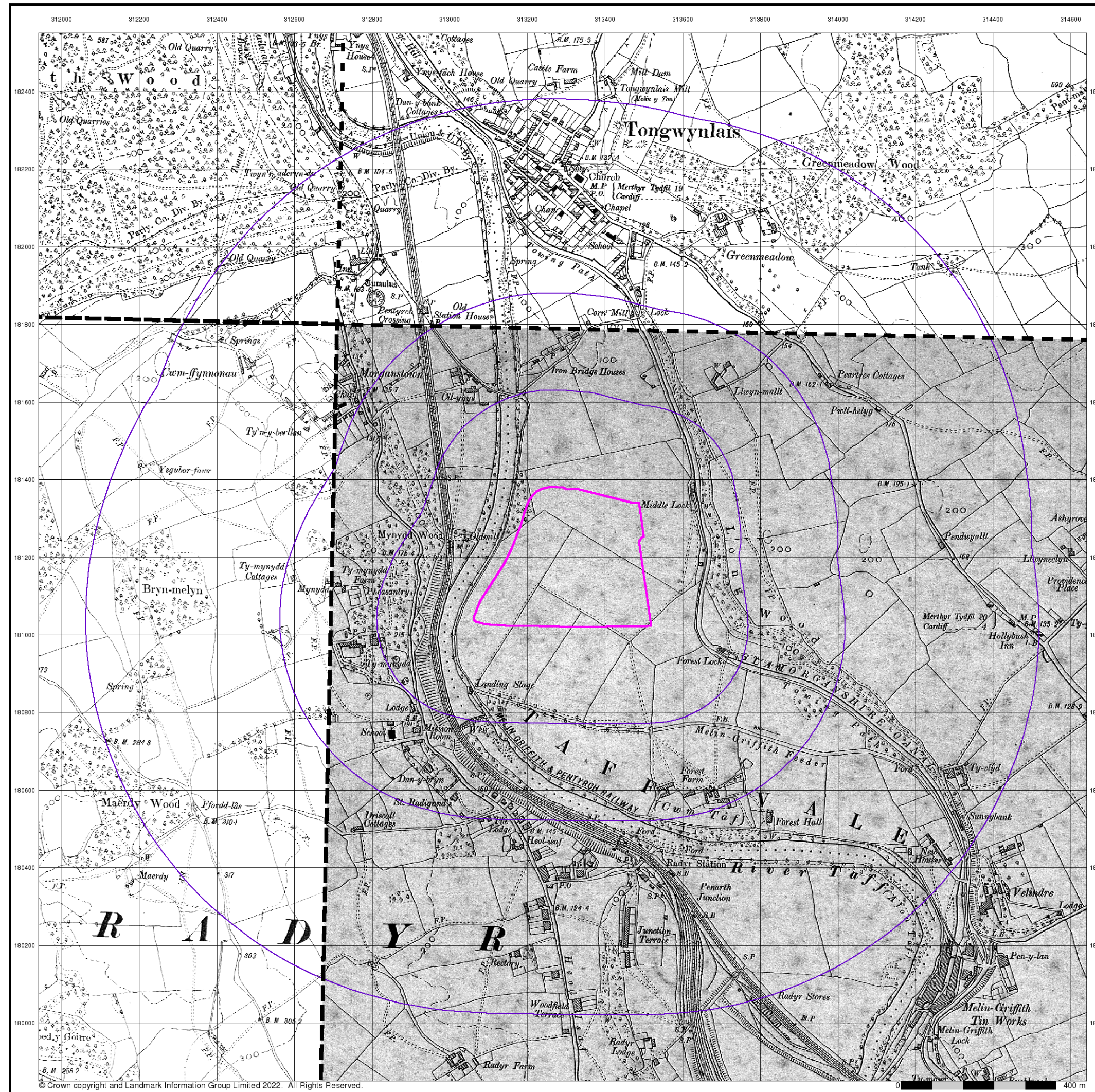
### Site Details

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## Glamorganshire

Published 1900 - 1901

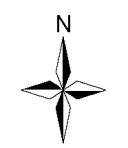
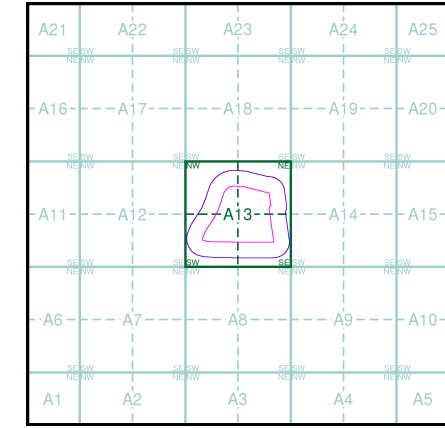
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear 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)

036SE 1900 1:10,560	037SW 1901 1:10,560
042NE 1900 1:10,560	043NW 1901 1:10,560

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

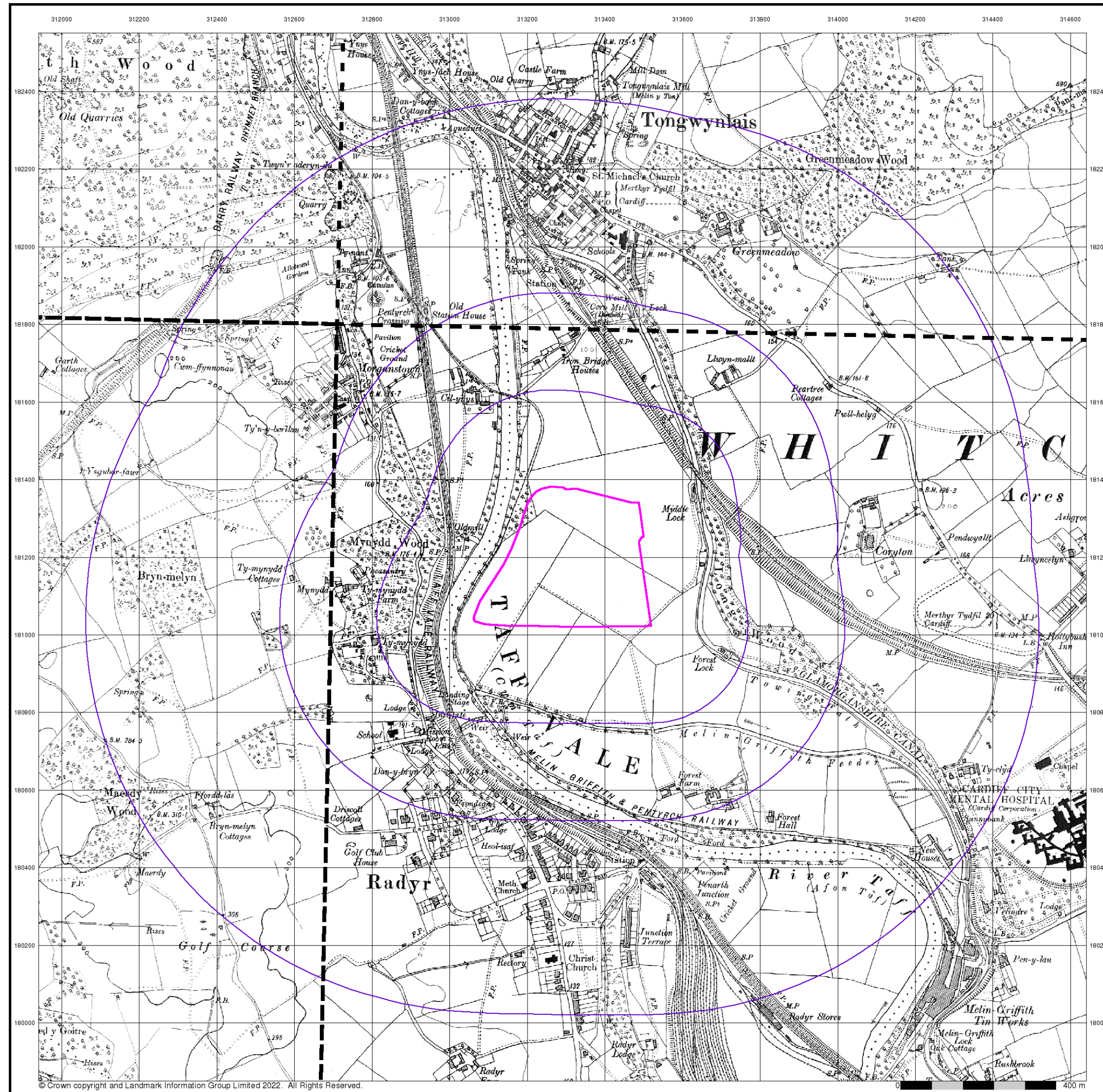
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## Glamorganshire

Published 1921 - 1922

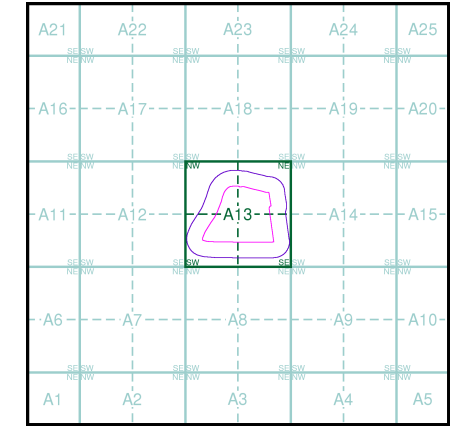
Source map scale - 1:10,560

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

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

036SE 1921 1:10,560	037SW 1922 1:10,560
042NE 1921 1:10,560	043NW 1922 1:10,560

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

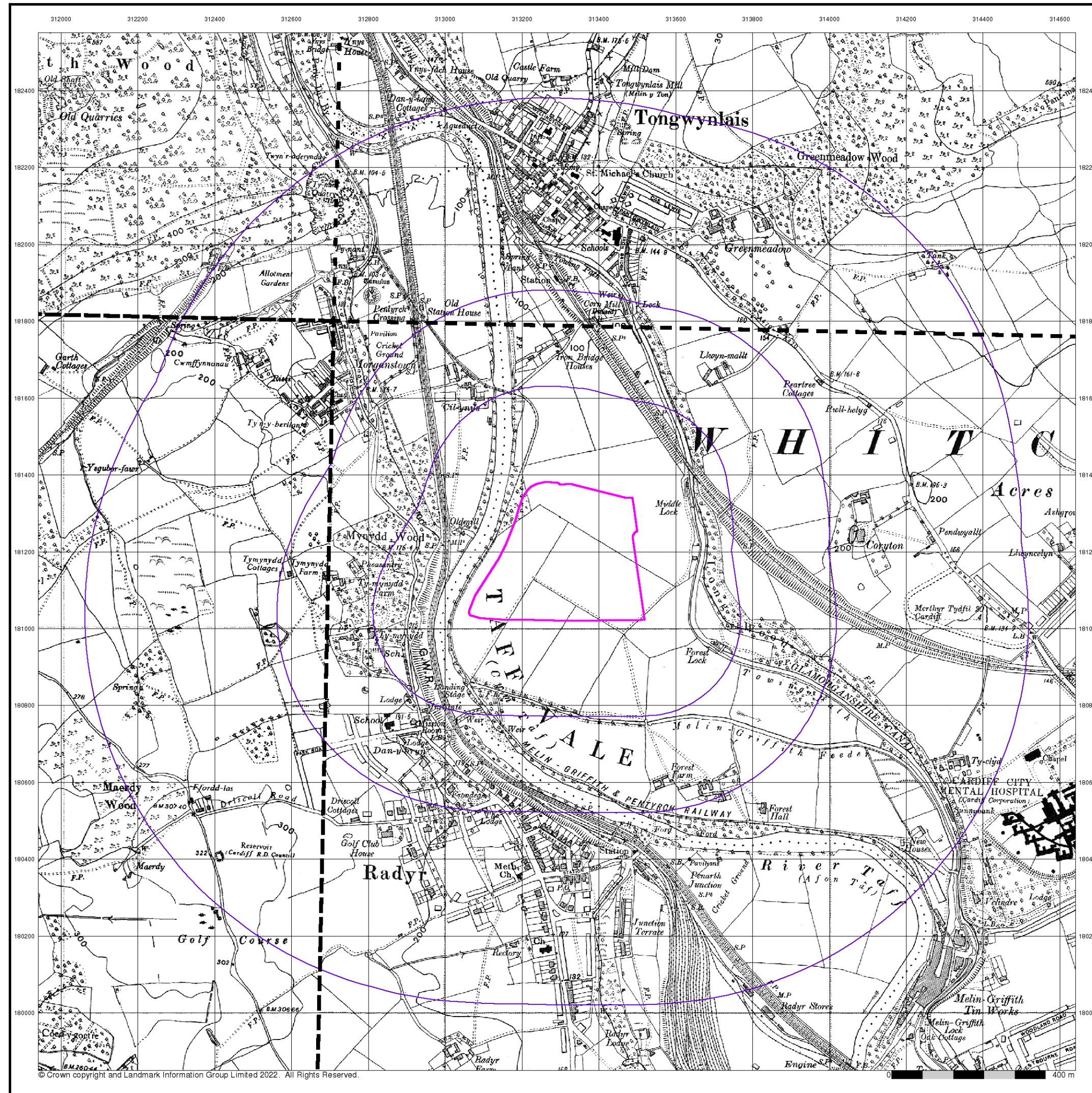
### Site Details

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## Glamorganshire

Published 1938 - 1951

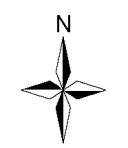
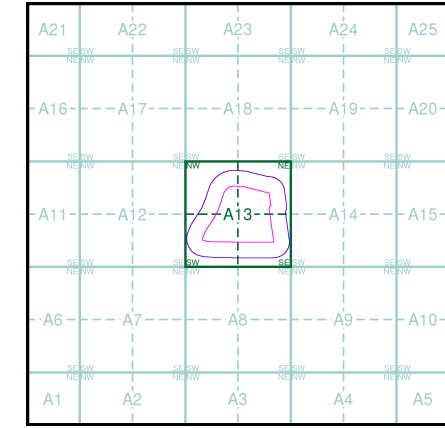
Source map scale - 1:10,560

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)

036SE 1950 1:10,560	037SW 1938 1:10,560
042NE 1951 1:10,560	043NW 1938 1:10,560

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

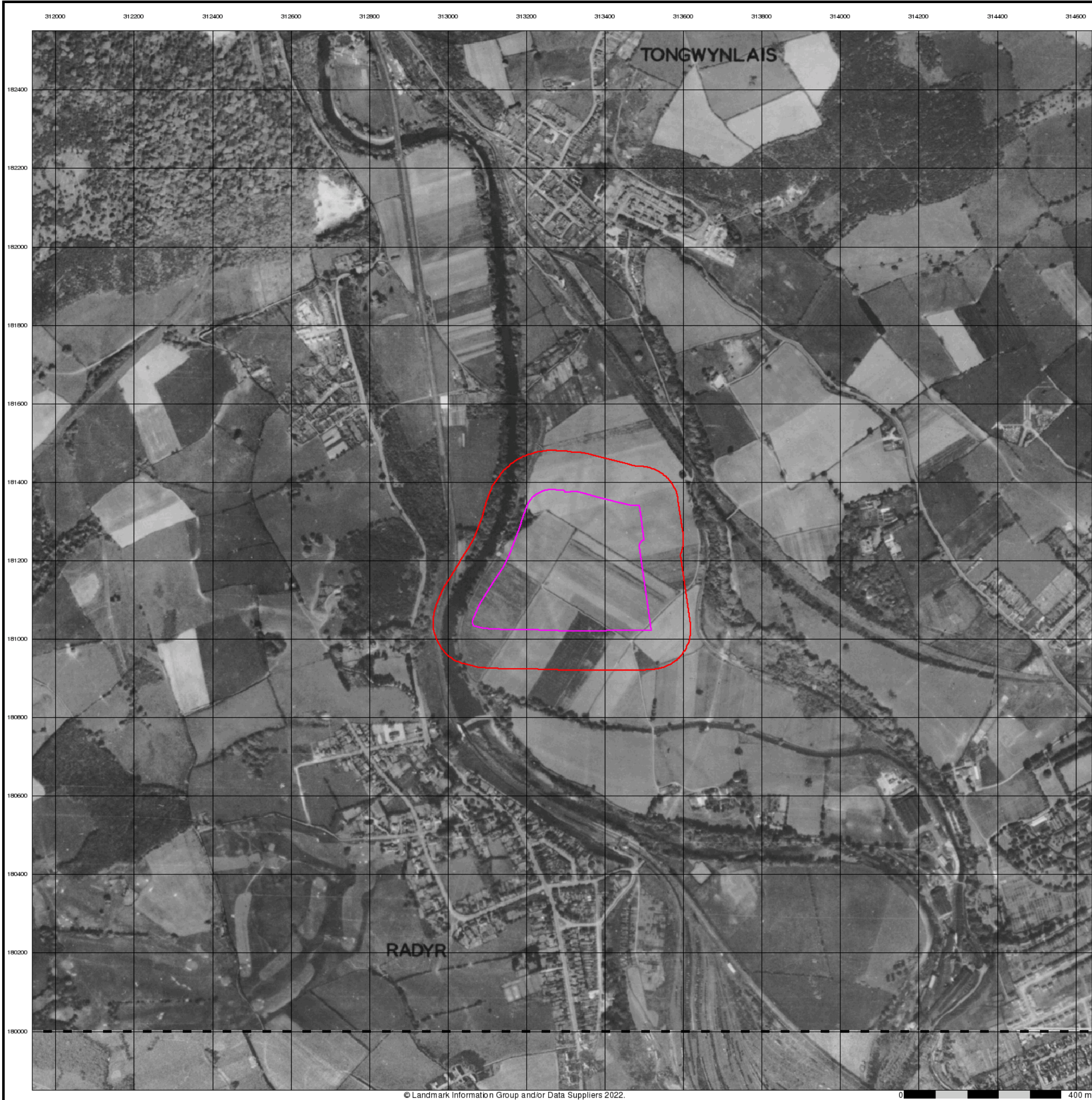
### Site Details

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





## Historical Aerial Photography

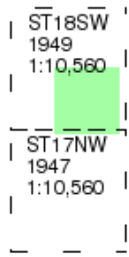
Published 1947 - 1949

Source map scale - 1:10,560

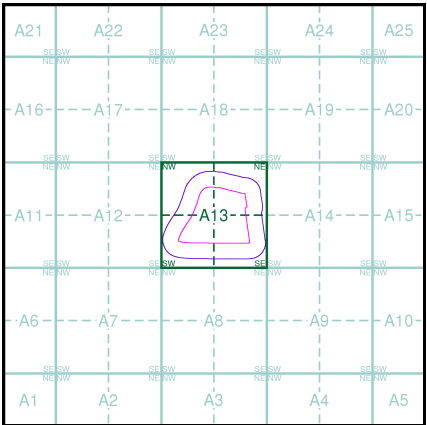
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 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)



### Historical Aerial Photography - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

### Site Details

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## Historical Aerial Photography

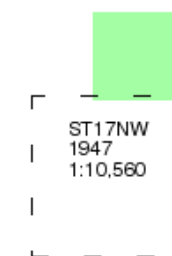
Published 1947

Source map scale - 1:10,560

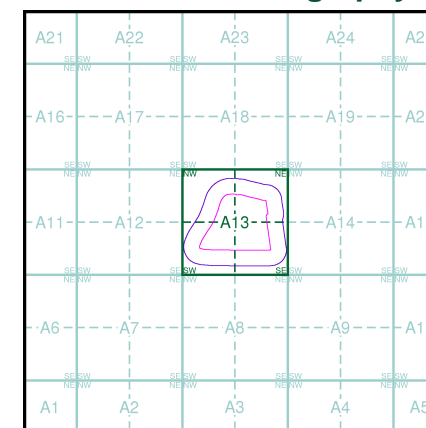
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 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)



### Historical Aerial Photography - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

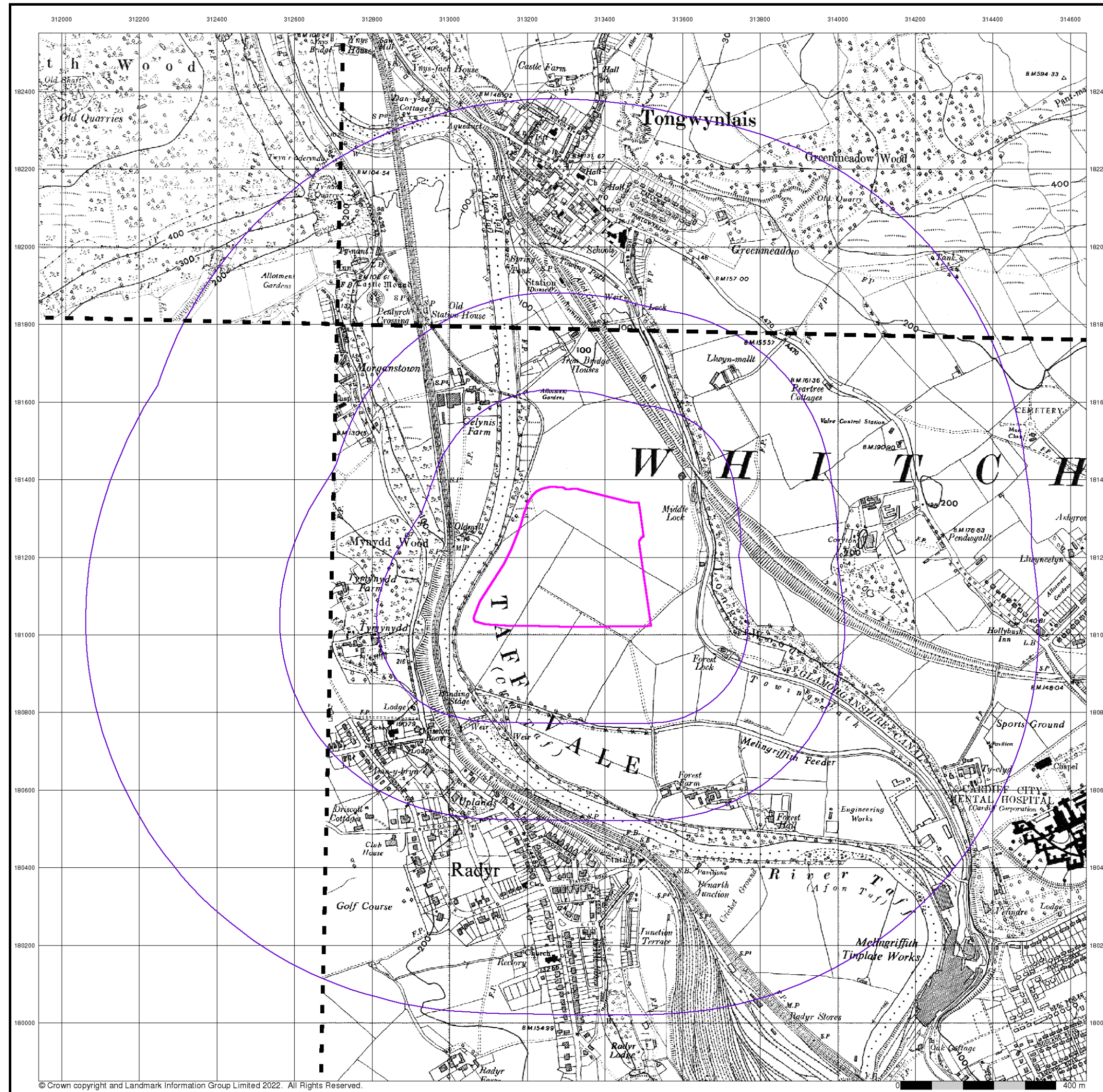
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CARDIFF, CF14 7YU



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## Glamorganshire

Published 1952 - 1953

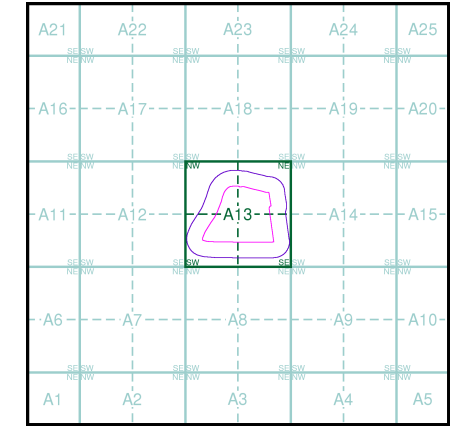
Source map scale - 1:10,560

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

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

036SE 1953 1:10,560	037SW 1953 1:10,560
	043NW 1952 1:10,560

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

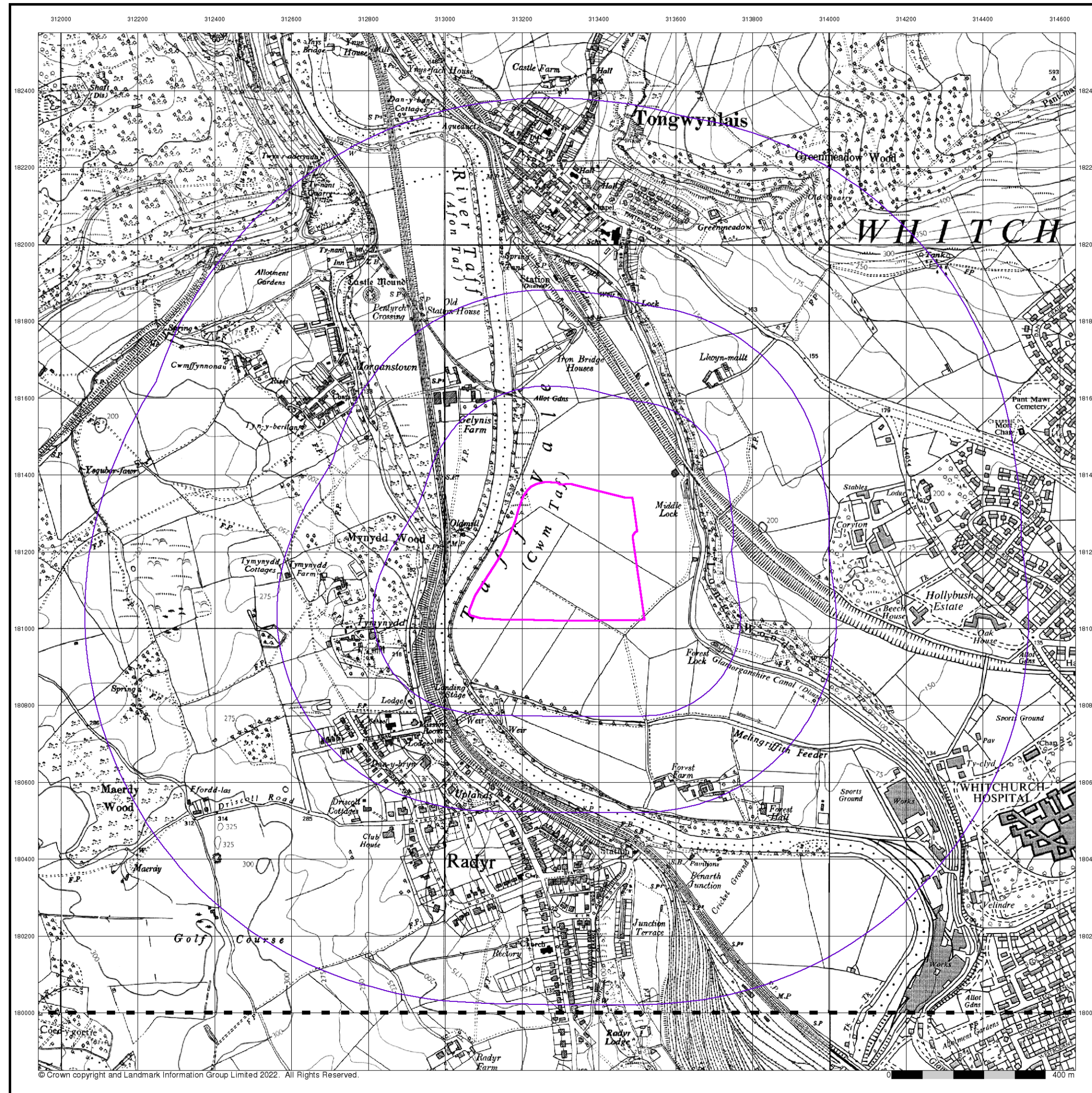
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## Ordnance Survey Plan

### Published 1964 - 1965

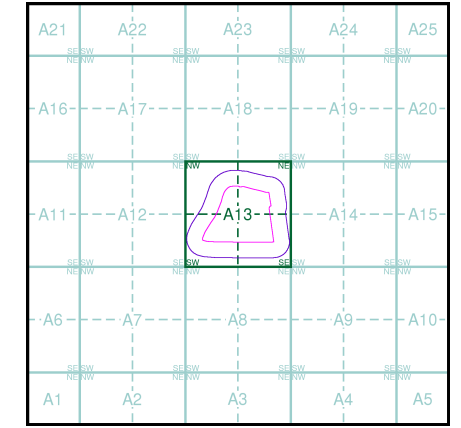
### Source map scale - 1:10,000

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

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

ST18SW	1964
1:10,560	
ST17NW	1965
1:10,560	

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

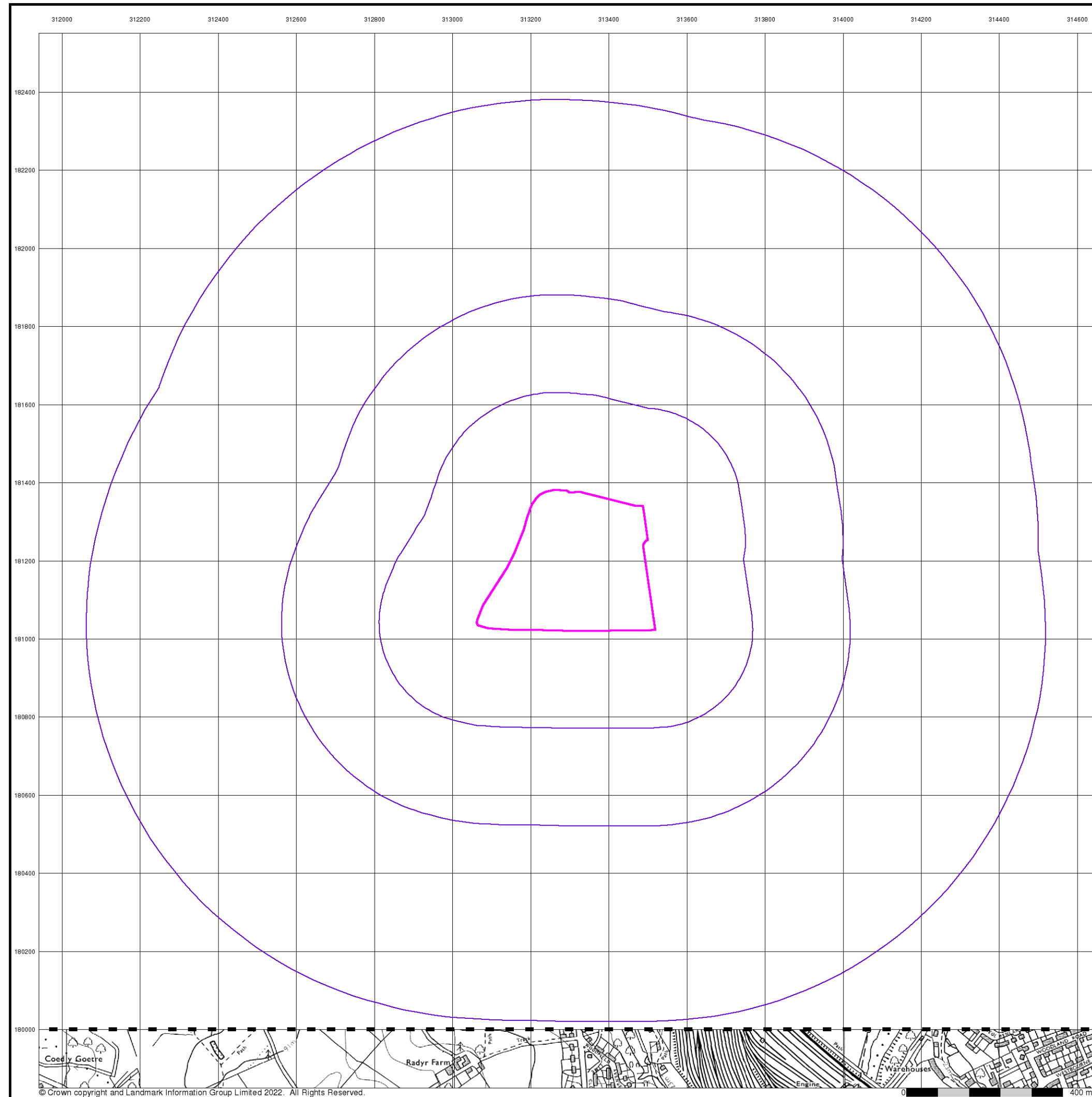
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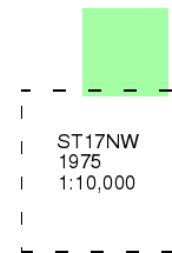
## Ordnance Survey Plan

Published 1975

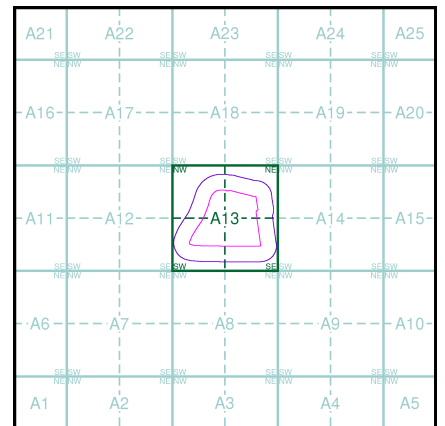
Source map scale - 1:10,000

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

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



### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

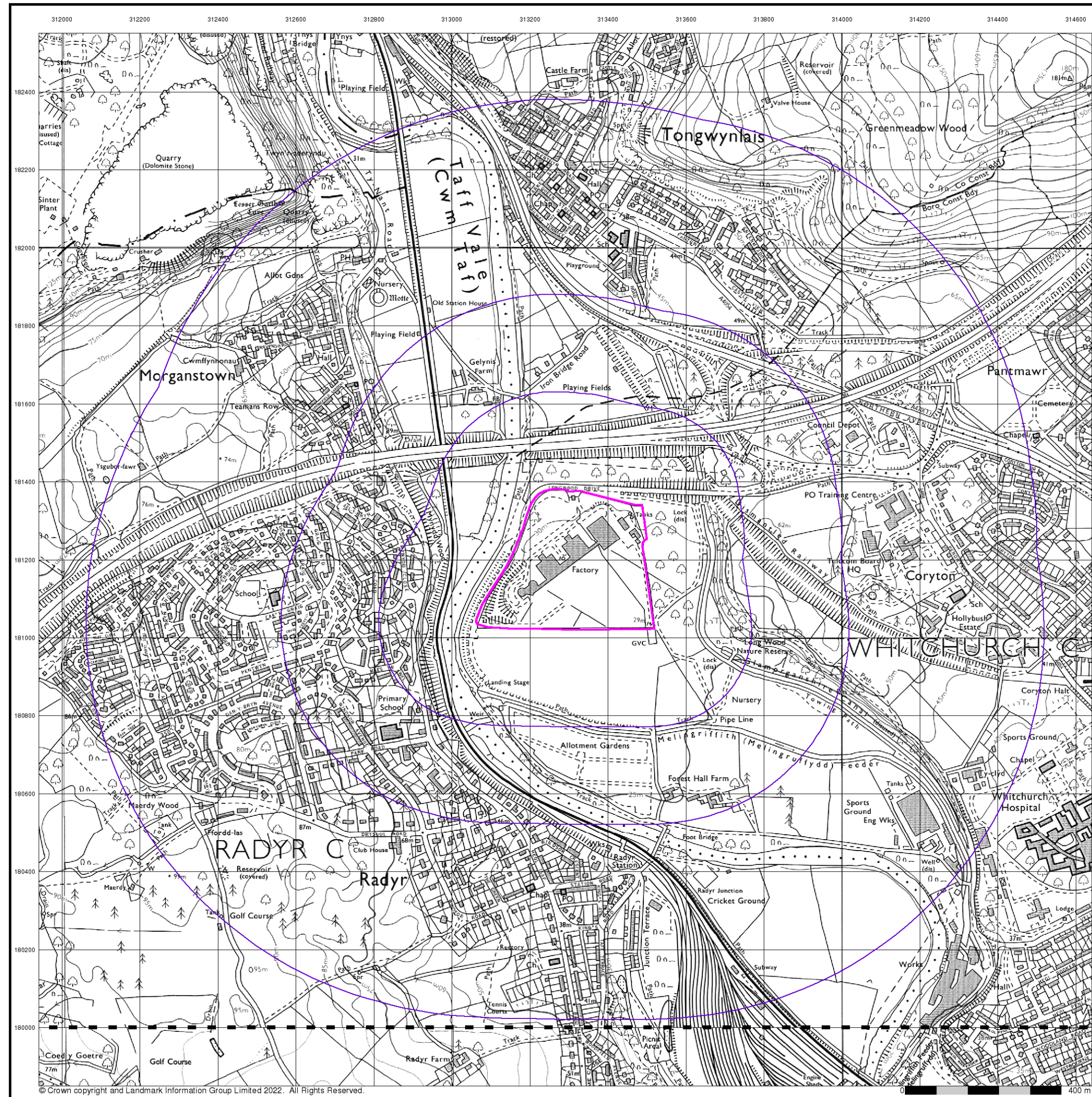
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## Ordnance Survey Plan

Published 1982 - 1989

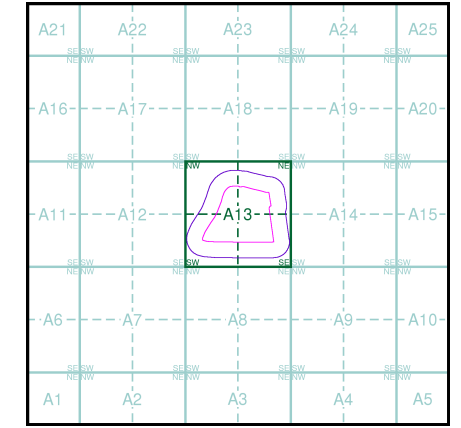
Source map scale - 1:10,000

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)

ST18SW	1982
1:10,000	
ST17NW	1989
1:10,000	

### Historical Map - Slice A



### Order Details

Order Number:	294881209_1_1
Customer Ref:	21-712
National Grid Reference:	313310, 181170
Slice:	A
Site Area (Ha):	12.33
Search Buffer (m):	1000

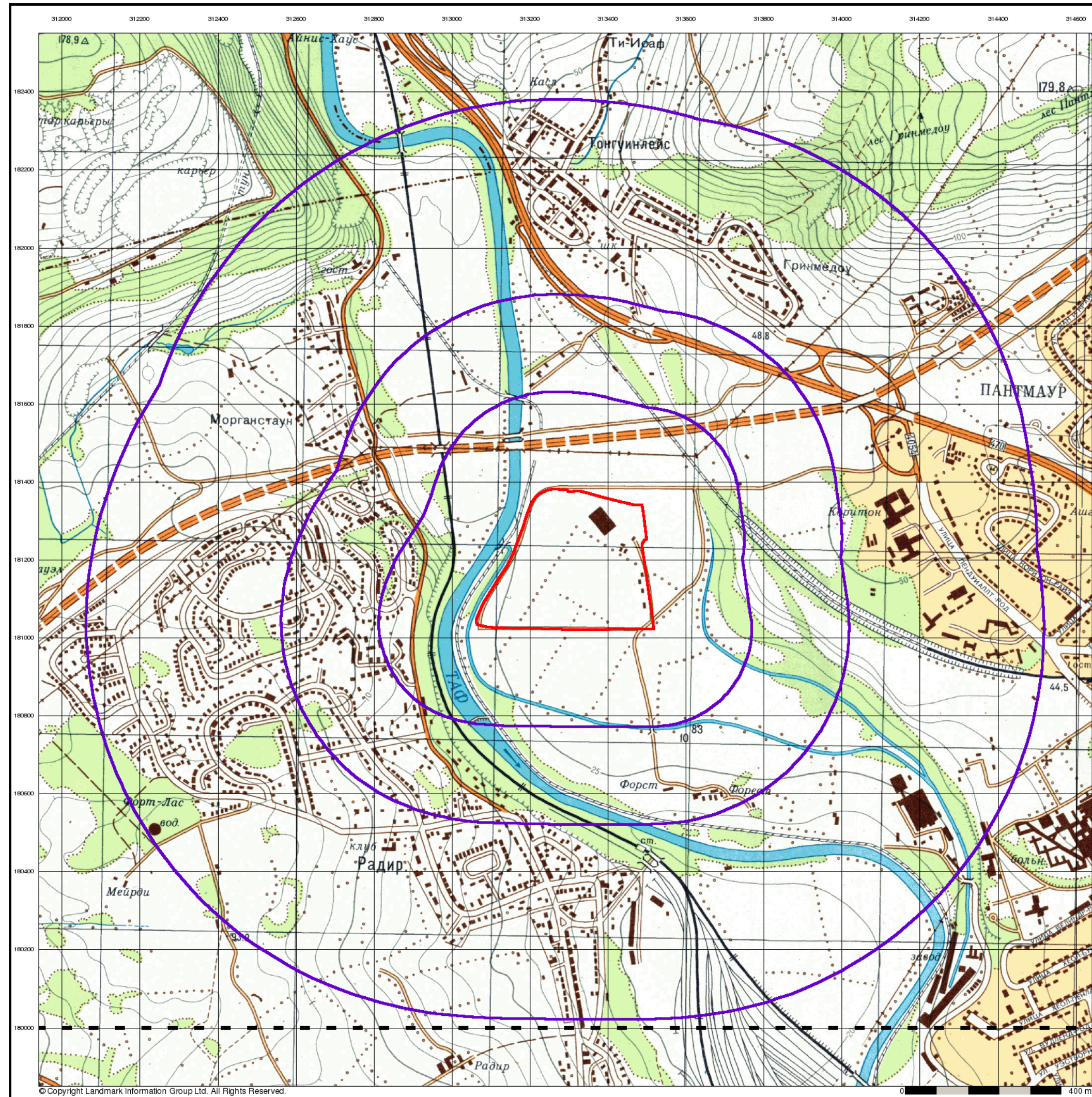
### Site Details

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## Cardiff

Published 1982

Source map scale - 1:10,000

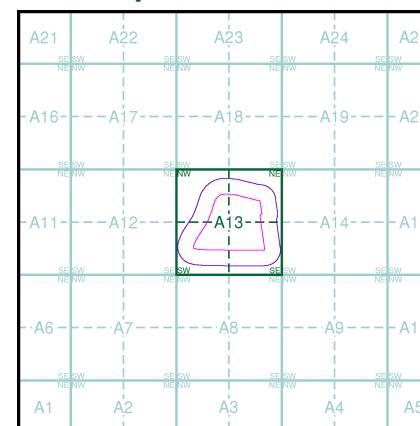
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

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

ST18SW  
1982  
1:10,000  
ST17NW  
1982  
1:10,000

### Russian Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

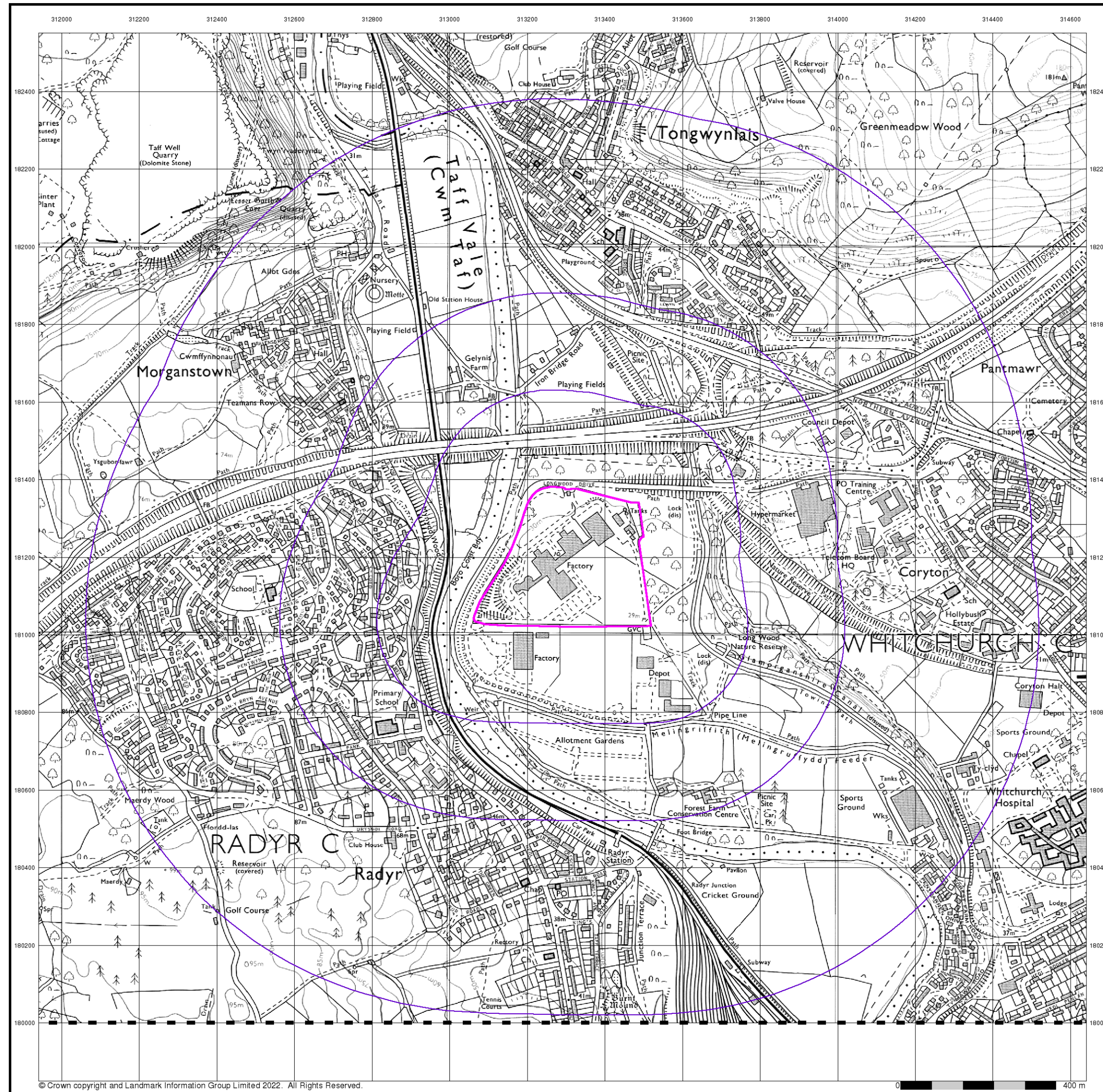
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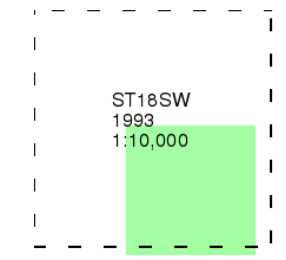
## Ordnance Survey Plan

### Published 1993

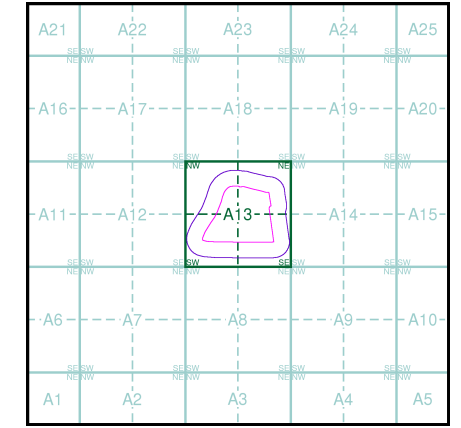
### Source map scale - 1:10,000

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

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



### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

### Site Details

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# 10k Raster Mapping

## Published 1999

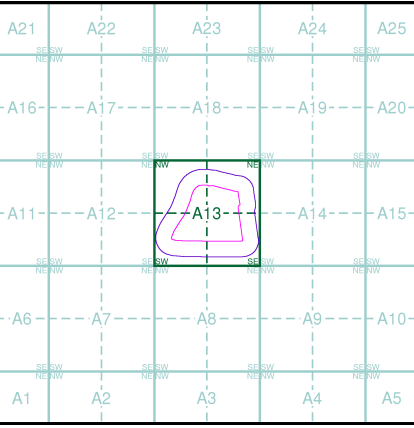
### Source map scale - 1:10,000

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

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

ST18SW	1999	1:10,000
ST17NW	1999	1:10,000

### Historical Map - Slice A



### Order Details

Order Number:	294881209_1_1
Customer Ref:	21-712
National Grid Reference:	313310, 181170
Slice:	A
Site Area (Ha):	12.33
Search Buffer (m):	1000

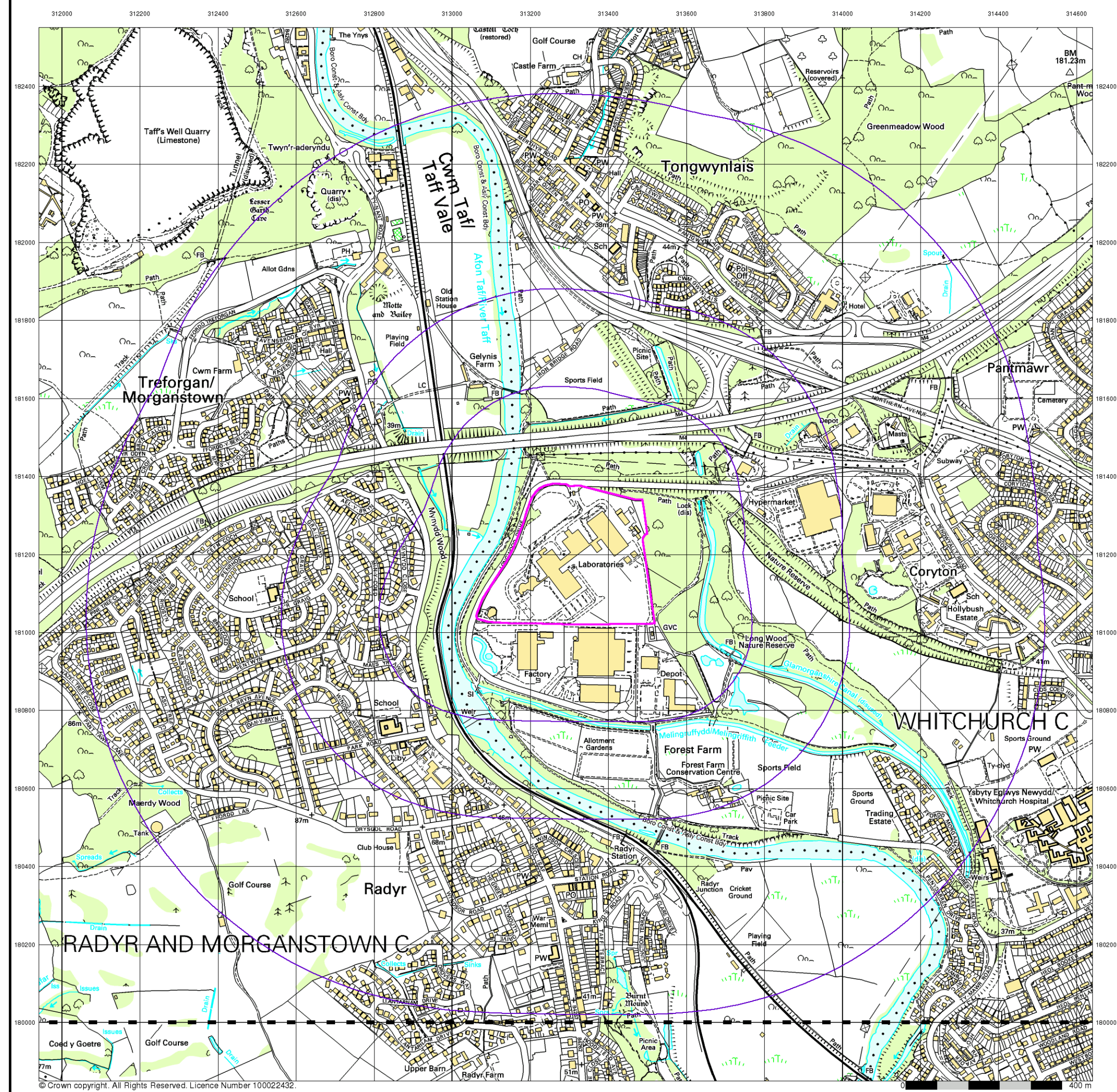
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# 10k Raster Mapping

## Published 2006

### Source map scale - 1:10,000

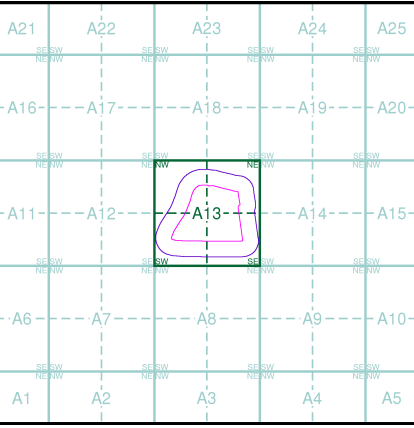
The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks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

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

ST18SW  
2006  
1:10,000

ST17NW  
2006  
1:10,000

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

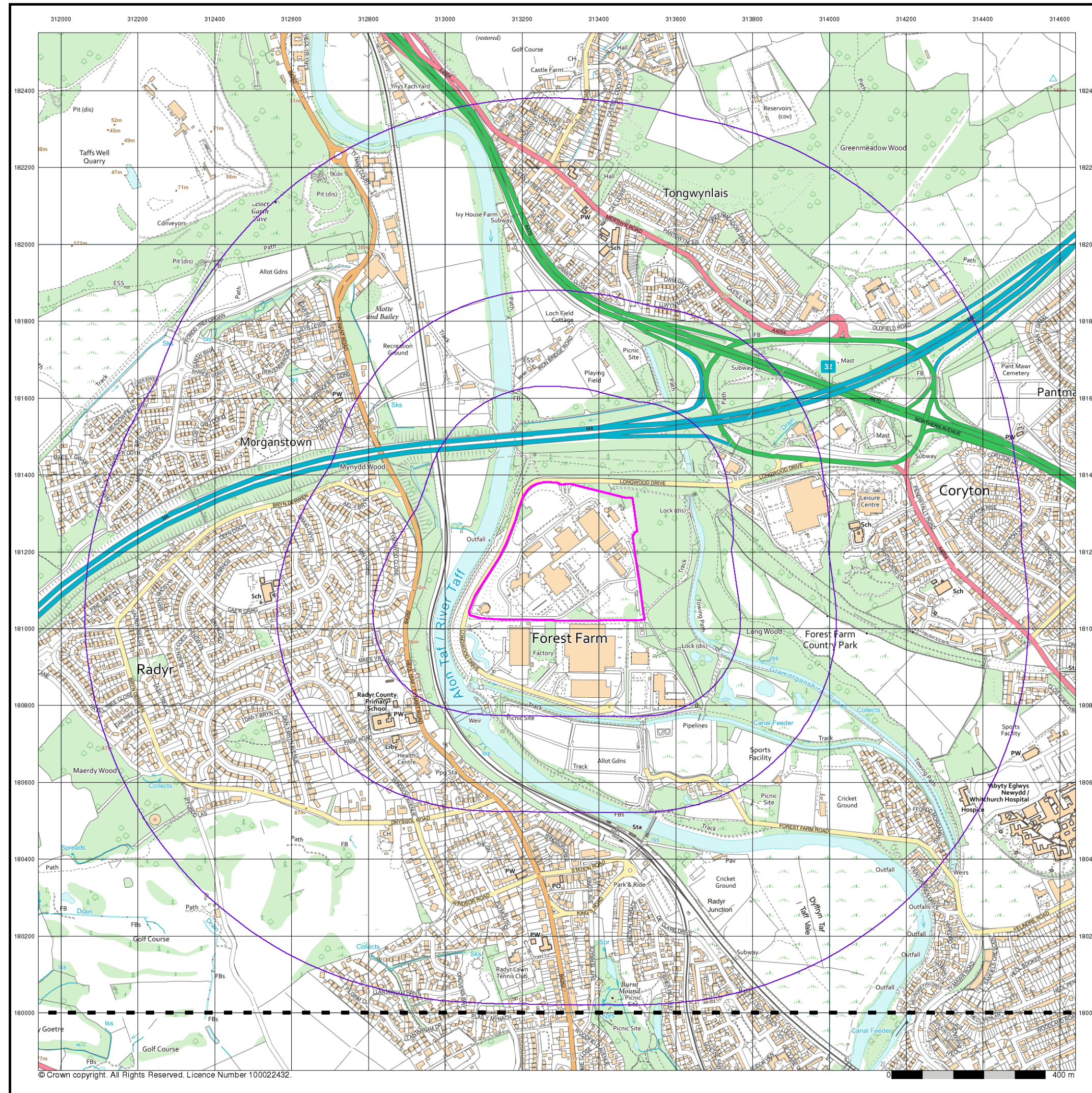
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# VectorMap Local

## Published 2021

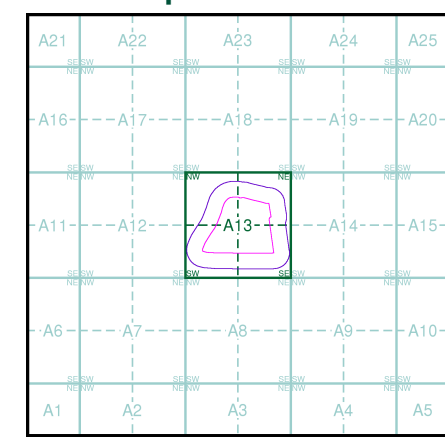
### Source map scale - 1:10,000

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)

ST18SW	2021	Variable
ST17NW	2021	Variable

### Historical Map - Slice A



### Order Details

Order Number: 294881209\_1\_1  
Customer Ref: 21-712  
National Grid Reference: 313310, 181170  
Slice: A  
Site Area (Ha): 12.33  
Search Buffer (m): 1000

### Site Details

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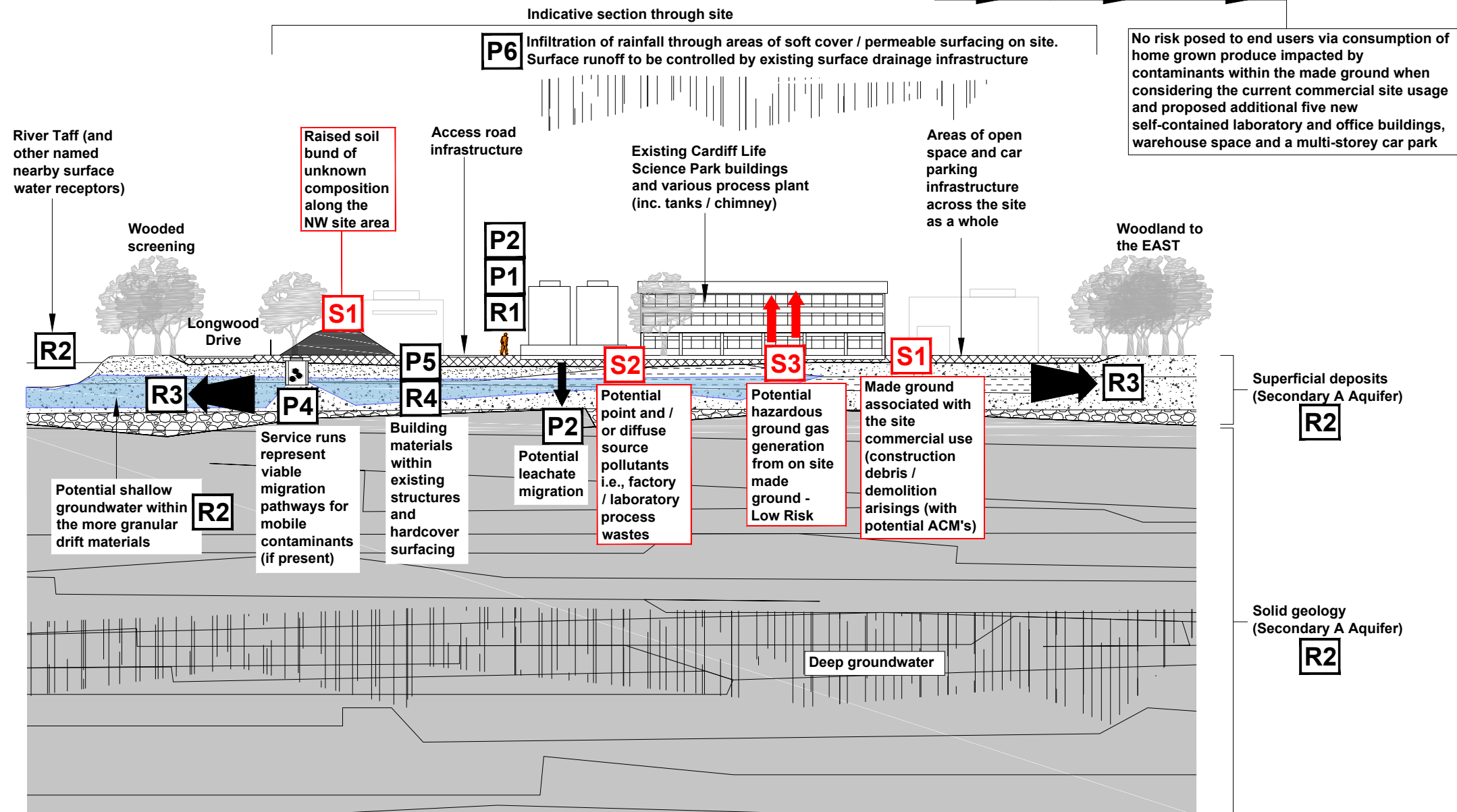
# **APPENDIX V**

## **Conceptual Site Model (CSM)**



## CRITICAL POLLUTANT LINKAGES

SOURCE	PATHWAY	RECEPTOR
<b>S</b> 1. Made ground associated with the site commercial use (construction debris / demolition arisings (with potential ACM's) and within the artificially constructed bund (of unknown composition) 2. Potential point and / or diffuse source pollutants i.e., factory / laboratory process wastes 3. Potential sources of hazardous ground gases (associated with any made ground beneath the site) - considered to be a low risk	<b>P</b> 1. Ingestion & Dermal Contact 2. Plant uptake and attached soils (in landscaped areas) 3. Air-inhalation of vapours and direct contact with dust 4. Migration through existing services / permeable strata 5. Direct contact with building materials 6. Surface runoff, Infiltration & leachate migration	<b>R</b> 1. Human health - (End users and construction workforce) 2. Controlled Waters: Groundwater - anticipated within the underlying bedrock and superficial deposits (Secondary Aquifer - A) and possibly perched within made ground. Several surface water features (River Taff, Melingruffydd Feeder and Glamorganshire Canal) lie within a plausible distance to the site 3. Adjacent sites 4. Building materials 5. Flora and fauna



## ARC ENVIRONMENTAL LTD

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Meadowfield  
Durham, DH7 8PN  
Tel: (0191) 378 6380  
Fax: (0191) 378 0494

e-mail: admin@arc-environmental.com  
web: www.arc-environmental.com

The contractor shall check all dimensions on site before commencement of any works. No dimensions to be scaled off this drawing.  
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## STRATA DETAILS

**MADE GROUND:**  
An earth mound / artificially constructed soil bund (possible flood defence barrier) resides at the southwest site margin of unknown composition. Based on the current previous developmental interactions recorded within the environ, made ground is therefore expected within the succession beneath the site. These deposits are anticipated to comprise a mixture of disturbed natural strata (clays, silts etc.) and anthropogenic debris (construction / demolition / process wastes). The archive boreholes advanced on site do not record made ground, however the investigation was prior to the development of the site

See  
section

**DRIFT DEPOSITS:**  
Published geological maps produced by the BGS indicate the natural superficial sequence is expected to comprise Glaciofluvial deposits (deposited during the Devensian (Quaternary Period). This succession is anticipated to compositionally relate to predominantly sand and gravel, locally with lenses of silt, clay or organic material (with cobbles and boulders). The archive BGS boreholes advanced on site, recorded topsoil above soft to firm sandy clay (to a maximum recorded depth of c.1.52m), above very dense, well graded slightly sandy gravel with interlayers of dense sand with cobbles and boulders, to at least c.9.00m bgl

**SOLID GEOLOGY:**  
Based on published BGS maps, the site is underlain by the Llanishen Conglomerate depicted to relate to the Milford Haven Sub-group (Emsian Age). This succession can be summarised as sandstones, siltstones and mudstones with beds of beds of pebbly sandstone. This was proven by the BGS boreholes which infer the solid stratigraphy beneath the site to comprise weak weathered mudstone, siltstone and friable silty clay to the completion depth (i.e., of in excess of c.10.0m bgl).

Client: **HSRE-TRINITY CARDIFF  
EDGE LIMITED**

Project Title:  
Proposed Commercial Development  
Cardiff Edge Life Sciences Park  
Longwood Drive, Cardiff, CF14 7YT

Drawing Title:  
Conceptual Site Model

Scale at A3: | Date: | Drawn by: | Approved by:  
As Shown | 31.05.22 | P.D | G.W

Job Ref: | Drg no: | Rev:  
21-712 | - | -